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Report for:

Aurelius Minerals Inc.

**Assessment Report
Mikwam Project
Ontario, Canada**

Authors:

Scott Zelligan, B.Sc., P.Geo.

December 24 2019

DATE AND SIGNATURES PAGE

This report is current as of its date of issue, December 24 2019. See Section 11 for the certificate of the qualified person. The signature of the Qualified Person ("QP") is listed below.

"signed and sealed"

	<u>12 24 2019</u>
<u>Scott Zelligan, P.Geol.</u>	Date

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GLOSSARY

Units of Measure

above mean sea level	amsl
acre	ac
annum (year)	a
billion	B
billion tonnes	Bt
billion years ago	Ga
centimetre	cm
cubic centimetre	cm ³
cubic metre	m ³
day	d
degree	°
degrees Celsius	°C
gram	g
hectare (10,000 m ²)	ha
kilo (thousand)	k
kilogram	kg
kilometre.....	km
kilometres.....	kms
kilovolt	kV
kilovolts	kV
metre	m
metres above sea level	masl
milligram	mg
millilitre	mL
millimetre.....	mm
million	M
million tonnes	Mt
million years ago	Ma
ounce	oz
square kilometre	km ²
square metre	m ²
three-dimensional	3D
tonne (1,000 kg) (metric ton)	t

Abbreviations and Acronyms

Detour Gold Corporation.	Detour Gold
Aurelius Minerals Inc.	Aurelius
National Instrument 43-101	NI 43-101
North American Datum	NAD
Qualified Person	QP
Mikwam Claims.....	the Project
Mikwam Property.....	the Property
Universal Transverse Mercator	UTM

1 SUMMARY

Aurelius Minerals Inc. (“Aurelius”) is a publicly traded company, currently listed on the TSX Venture Exchange under the symbol AUL.

1.1 PURPOSE/SCOPE

This report will describe all exploration activities performed on the Mikwam Property (the “Property”) during the year 2018. This includes Diamond Drilling and supporting activities.

1.1.1 Diamond Drilling

Two drill programs were completed in 2018 on the Property. 10 holes were drilled beginning in February and ending in April (the “Winter Program”) and an additional 17 holes were drilled beginning in August and ending in September (the “Summer Program”).

1.2 PROPERTY AND LOCATION

The Project is located approximately 105 kilometres north-east of Cochrane, Ontario (N.T.S 32E/05&12) near the border between Ontario and Quebec (Figure 3-1), and is approximately 28 kilometres west of the Casa Berardi Mine and 55 kilometres south of the Detour Lake Mine.

Access to the Property is shown in Figure 4-1. From the north, the Property is approachable via paved highway 652 (99 km), and the unpaved logging road Chabbie Lake Road (33 km). Land access to the Property is possible only in the winter, via temporary winter roads on old logging trails.

From the south and west, the Property is approachable via paved highway 652 (30 km), right onto Bush Road (350 m), left onto Translimit Road (52 km), and left onto Tomlinson Road (57 km). Land access is only possible during the winter, via temporary winter roads on old logging trails. A crossing at the Burntbush River is required for this access to be possible.

A temporary camp has been set up on the claims during winter programs, at the location where the winter road meets a creek on the Property. Summer programs by Aurelius have been based out of Cochrane.

1.3 PREVIOUS WORK

Exploration has been conducted on and around the Property since 1958. The Project was “discovered” in the 1980s by Newmont. A full exploration history is described in Table 5-1.

1.4 GEOLOGY AND MINERALIZATION

The Project is located in the northern portion of the Abitibi Greenstone Belt. The Project has extensive glacial cover hence all geological interpretations are based on drillholes and geophysical surveys. The Property has been interpreted as lying in the Harricana-Turgeon Belt sub-province. This sub-province hosts polymetallic deposits and several well-developed gold deposits such as Casa-Berardi and Detour Lake.

The Mikwam deposit is host to Archean age, quartz-carbonate vein gold, and is analogous to the nearby Casa Berardi mine, and more broadly with the entire range of similar deposits in the Abitibi district.

1.5 CURRENT WORK

1.5.1 Diamond Drilling – Winter Program

Over 42 days, 10 drillholes totalling 2692 m were completed. The first four holes were drilled to the west of the known area of mineralization. Anomalous gold was found in two of these holes. Five holes were drilled around the deposit area, where mineralization was extended both vertically and laterally, and a basis for a better understanding of the structural and lithological controls on mineralization was established. The last hole was drilled on a previously untested anomaly to the southwest. Although mineralization was not intersected, the lithological information will help construct a more thorough geological picture, as well as assisting in future geophysical interpretations.

1.5.2 Diamond Drilling – Summer Program

Over 38 days, 17 drillholes totalling 3923 m were completed. All holes except for one intersected mineralization. All holes were drilled at the known area of mineralization and were successful in “infilling” the previously interpreted mineralized horizons and tighter drill spacings. In addition to this, higher grade mineralization was encountered than in any previous program on the Property, indicating the potential presence of a high-grade trend.

1.6 RECOMMENDATIONS

In conclusion, these drill programs have been judged as a success. All work was completed in a timely and efficient fashion, from a financing perspective. Gold mineralization was encountered in 23 of 27 holes. New targets were discovered, and a new exploration model has been proposed from the results.

It is recommended that future work involve further drilling, as well as Inverse Polarity (IP) ground survey, with a total cost of \$800,000.

2 RELIANCE ON OTHER EXPERTS

The author of this report has reviewed and analyzed data and reports provided by Aurelius, together with publicly available data, and has drawn conclusions augmented by direct field examination.

The author has relied on others for information in this report. Information from third party sources are quoted as a report or referenced. A copy of the current claims and concessions, indicating ownership, was provided by Aurelius, where these could not be verified by available government data.

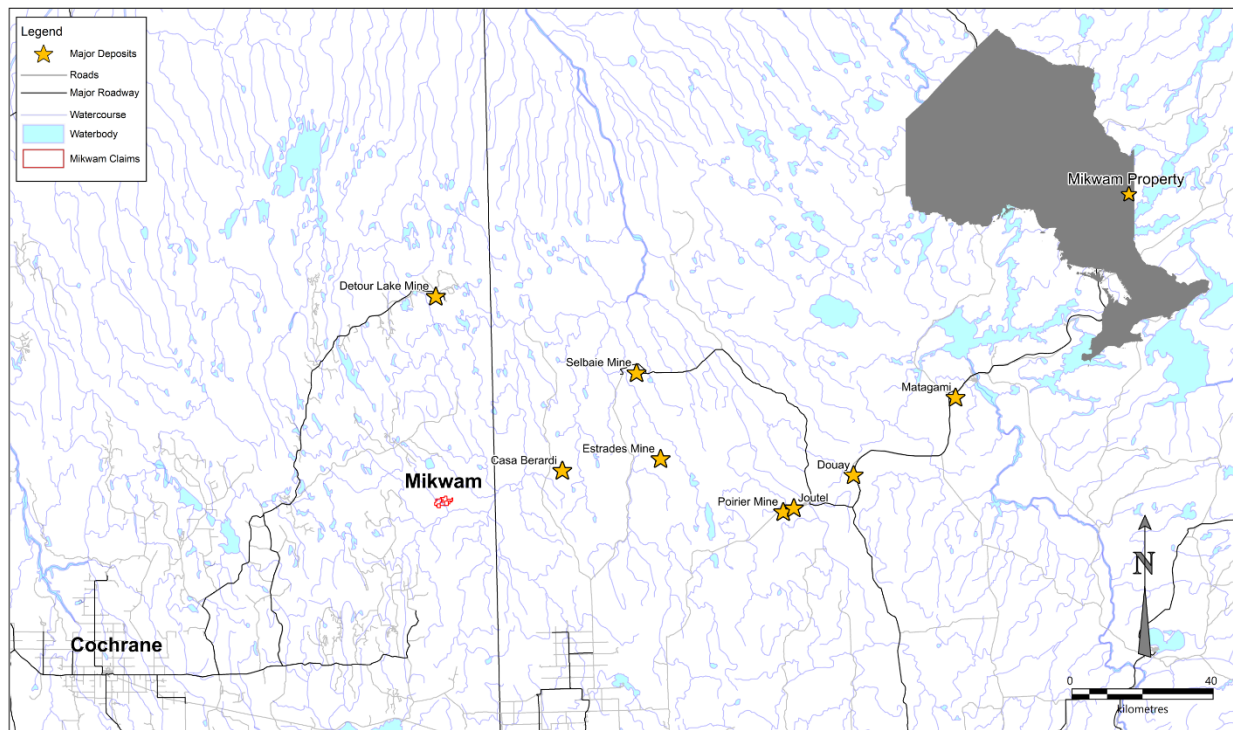
The author of this report is not qualified to provide extensive comment on legal issues, including status of tenure associated with the Project referred to in this Report.

3 PROPERTY DESCRIPTION AND LOCATION

3.1 LOCATION

The Project area is located approximately 105 kilometres north-east of Cochrane, Ontario (N.T.S 32E/05&12) near the border between Ontario and Quebec (Figure 3-1), and is approximately 28 kilometres west of the Casa Berardi Mine and 55 kilometres south of the Detour Lake Mine.

Figure 3-1 Project Location



3.2 PROPERTY DESCRIPTION AND OWNERSHIP

The Project is comprised of 69 contiguous Cell Claims (9 Legacy claims, see Table 3-1), including 31 Single Cell Mining Claims and 37 Boundary Cell Mining Claims, totalling approximately 966 hectares (see

Table 3-2, and

Figure 3-2).

Table 3-1 Legacy Claim List

CLAIM NUMBER	CLAIM UNITS	HECTARES	RECORD DATE
3017411	1	21.7	2006-MAR-16
3019086	14	240	2005-FEB-01
4219736	11	187	2007-APR-24
4246490	1	18.8	2009-JAN-13
4249335	9	141	2009-NOV-17

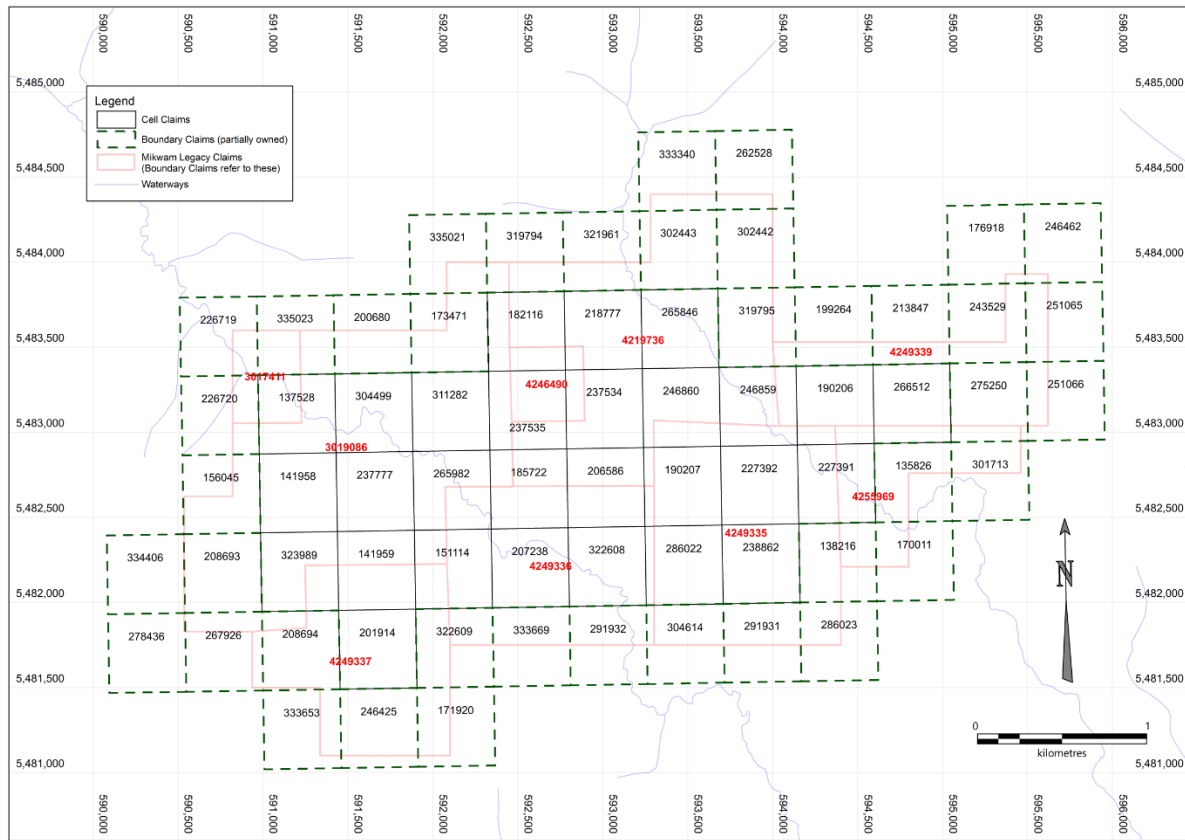
CLAIM NUMBER	CLAIM UNITS	HECTARES	RECORD DATE
4249336	7	114	2009-NOV-17
4249337	7	102	2009-NOV-17
4249339	6	88.4	2009-NOV-17
4255969	3	52.8	2011-NOV-15

Table 3-2 Cell Claim List

TENURE ID	TOWNSHIP / AREA	TENURE TYPE	ANNIVERSARY DATE	OWNER
112819	NOSEWORTHY	Boundary Cell Mining Claim	2020-11-17	AURELIUS
112843	NOSEWORTHY	Boundary Cell Mining Claim	2020-11-17	AURELIUS
126189	NOSEWORTHY	Boundary Cell Mining Claim	2020-11-17	AURELIUS
135826	NOSEWORTHY	Boundary Cell Mining Claim	2020-11-15	AURELIUS
137528	NOSEWORTHY	Single Cell Mining Claim	2020-03-16	AURELIUS
138216	NOSEWORTHY	Boundary Cell Mining Claim	2020-11-17	AURELIUS
141262	NOSEWORTHY	Boundary Cell Mining Claim	2020-11-15	AURELIUS
141958	NOSEWORTHY	Single Cell Mining Claim	2020-02-01	AURELIUS
141959	NOSEWORTHY	Single Cell Mining Claim	2020-02-01	AURELIUS
141960	NOSEWORTHY	Boundary Cell Mining Claim	2020-02-01	AURELIUS
143200	NOSEWORTHY	Boundary Cell Mining Claim	2020-11-17	AURELIUS
144196	NOSEWORTHY	Boundary Cell Mining Claim	2020-11-17	AURELIUS
151114	NOSEWORTHY	Single Cell Mining Claim	2020-02-01	AURELIUS
153970	NOSEWORTHY	Boundary Cell Mining Claim	2020-04-24	AURELIUS
156044	NOSEWORTHY	Boundary Cell Mining Claim	2020-02-01	AURELIUS
156045	NOSEWORTHY	Boundary Cell Mining Claim	2020-02-01	AURELIUS
169295	NOSEWORTHY	Boundary Cell Mining Claim	2020-11-17	AURELIUS
170011	NOSEWORTHY	Boundary Cell Mining Claim	2020-11-15	AURELIUS
171920	NOSEWORTHY	Boundary Cell Mining Claim	2020-11-17	AURELIUS
182116	NOSEWORTHY	Single Cell Mining Claim	2020-04-24	AURELIUS
185722	NOSEWORTHY	Single Cell Mining Claim	2020-04-24	AURELIUS
190206	NOSEWORTHY	Single Cell Mining Claim	2020-11-17	AURELIUS
190207	NOSEWORTHY	Single Cell Mining Claim	2020-04-24	AURELIUS
199263	NOSEWORTHY	Boundary Cell Mining Claim	2020-11-17	AURELIUS
199264	NOSEWORTHY	Boundary Cell Mining Claim	2020-11-17	AURELIUS
200680	NOSEWORTHY	Boundary Cell Mining Claim	2020-02-01	AURELIUS
201674	NOSEWORTHY	Boundary Cell Mining Claim	2020-03-16	AURELIUS
201914	NOSEWORTHY	Single Cell Mining Claim	2020-11-17	AURELIUS
206586	NOSEWORTHY	Single Cell Mining Claim	2020-04-24	AURELIUS
207238	NOSEWORTHY	Single Cell Mining Claim	2020-11-17	AURELIUS
207267	NOSEWORTHY	Boundary Cell Mining Claim	2020-11-17	AURELIUS
208692	NOSEWORTHY	Boundary Cell Mining Claim	2020-02-01	AURELIUS
208693	NOSEWORTHY	Single Cell Mining Claim	2020-02-01	AURELIUS
208694	NOSEWORTHY	Single Cell Mining Claim	2020-02-01	AURELIUS
209944	NOSEWORTHY	Boundary Cell Mining Claim	2020-11-17	AURELIUS
218777	NOSEWORTHY	Single Cell Mining Claim	2020-04-24	AURELIUS
226719	NOSEWORTHY	Boundary Cell Mining Claim	2020-03-16	AURELIUS
226720	NOSEWORTHY	Boundary Cell Mining Claim	2020-03-16	AURELIUS
227391	NOSEWORTHY	Single Cell Mining Claim	2020-11-17	AURELIUS
227392	NOSEWORTHY	Single Cell Mining Claim	2020-11-17	AURELIUS
237534	NOSEWORTHY	Single Cell Mining Claim	2020-04-24	AURELIUS
237535	NOSEWORTHY	Single Cell Mining Claim	2020-04-24	AURELIUS
237777	NOSEWORTHY	Single Cell Mining Claim	2020-02-01	AURELIUS
238862	NOSEWORTHY	Single Cell Mining Claim	2020-11-17	AURELIUS
246462	NOSEWORTHY	Boundary Cell Mining Claim	2020-11-17	AURELIUS
246463	NOSEWORTHY	Boundary Cell Mining Claim	2020-11-17	AURELIUS

TENURE ID	TOWNSHIP / AREA	TENURE TYPE	ANNIVERSARY DATE	OWNER
246464	NOSEWORTHY	Single Cell Mining Claim	2020-11-17	AURELIUS
246859	NOSEWORTHY	Single Cell Mining Claim	2020-04-24	AURELIUS
246860	NOSEWORTHY	Single Cell Mining Claim	2020-04-24	AURELIUS
265846	NOSEWORTHY	Single Cell Mining Claim	2020-04-24	AURELIUS
265982	NOSEWORTHY	Single Cell Mining Claim	2020-02-01	AURELIUS
266512	NOSEWORTHY	Single Cell Mining Claim	2020-11-17	AURELIUS
267926	NOSEWORTHY	Boundary Cell Mining Claim	2020-02-01	AURELIUS
286022	NOSEWORTHY	Single Cell Mining Claim	2020-11-17	AURELIUS
286023	NOSEWORTHY	Boundary Cell Mining Claim	2020-11-17	AURELIUS
302442	NOSEWORTHY	Boundary Cell Mining Claim	2020-04-24	AURELIUS
302443	NOSEWORTHY	Boundary Cell Mining Claim	2020-04-24	AURELIUS
304499	NOSEWORTHY	Single Cell Mining Claim	2020-02-01	AURELIUS
311282	NOSEWORTHY	Single Cell Mining Claim	2020-02-01	AURELIUS
319794	NOSEWORTHY	Boundary Cell Mining Claim	2020-04-24	AURELIUS
319795	NOSEWORTHY	Boundary Cell Mining Claim	2020-04-24	AURELIUS
321961	NOSEWORTHY	Boundary Cell Mining Claim	2020-04-24	AURELIUS
322608	NOSEWORTHY	Single Cell Mining Claim	2020-11-17	AURELIUS
322609	NOSEWORTHY	Boundary Cell Mining Claim	2020-11-17	AURELIUS
323989	NOSEWORTHY	Single Cell Mining Claim	2020-02-01	AURELIUS
333340	NOSEWORTHY	Boundary Cell Mining Claim	2020-04-24	AURELIUS
333669	NOSEWORTHY	Boundary Cell Mining Claim	2020-11-17	AURELIUS
334406	NOSEWORTHY	Boundary Cell Mining Claim	2020-02-01	AURELIUS

Figure 3-2 Claim Map (MNDM, 2019)

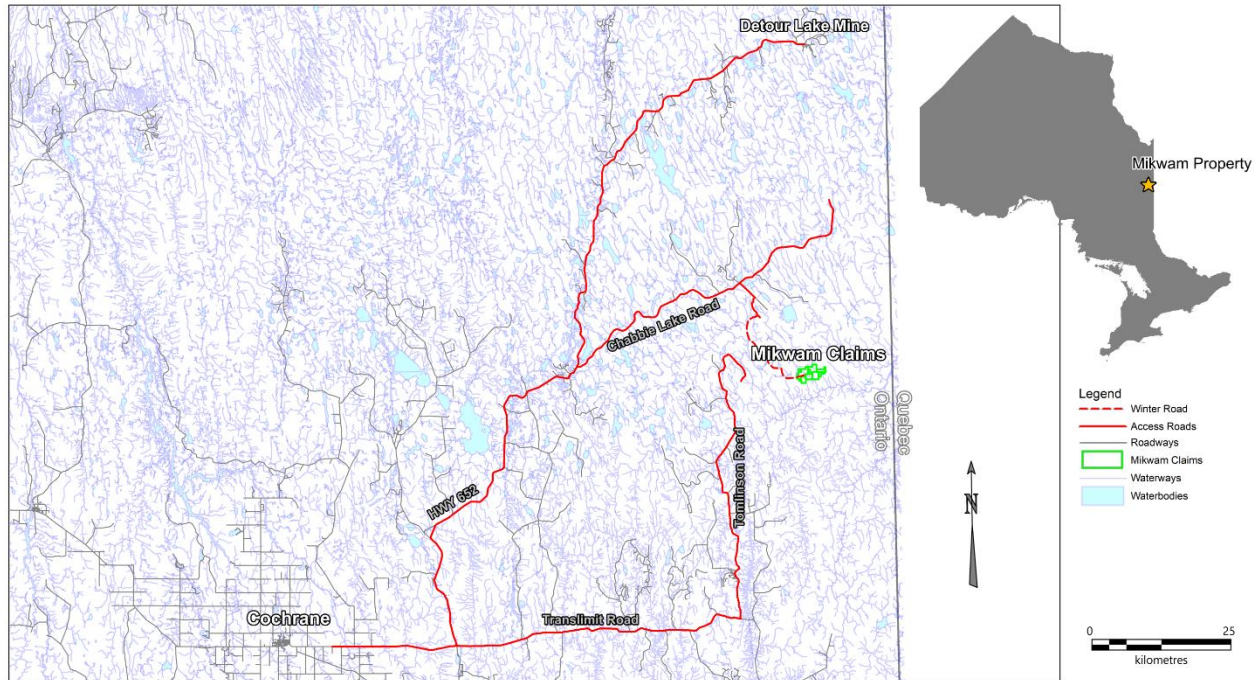


4 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

4.1 ACCESSIBILITY

The Project can be accessed from the north or the south and west (Figure 4-1).

Figure 4-1 Project Accessibility (MNDM, 2016 & Google, 2016)



From the north, the Property is approachable via paved highway 652 (99 km), and the unpaved logging road Chabbie Lake Road (33 km). Land access to the Property is possible only in the winter, via temporary winter roads on old logging trails.

From the south and west, the Property is approachable via paved highway 652 (30 km), right onto Bush Road (350 m), left onto Translimit Road (52 km), and left onto Tomlinson Road (57 km). Land access is only possible during the winter, via temporary winter roads on old logging trails. A crossing at the Burntbush River is required for this access to be possible.

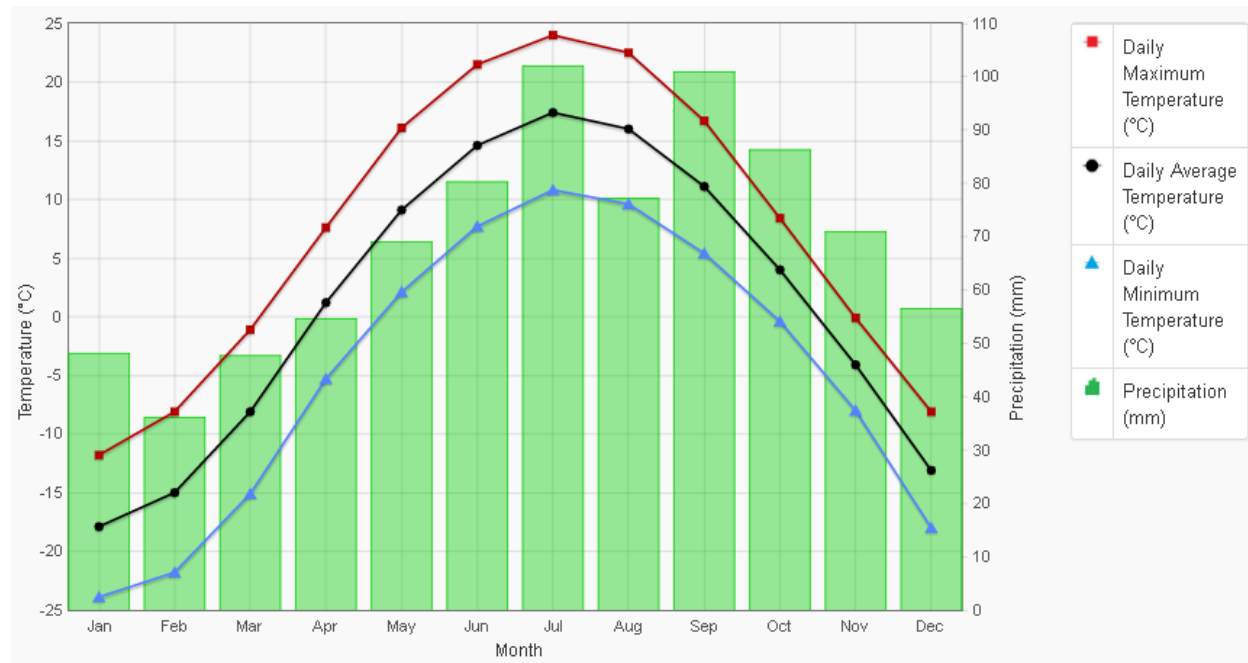
A temporary camp has been set up on the claims during winter programs, at the location where the winter road meets a creek on the Property. Summer programs by Aurelius have been based out of Cochrane.

4.2 CLIMATE

Climate information is based on nearby Kapuskasing. Regular climatological data has been averaged for the period from 1981-2010 and is displayed in Figure 5-2. Additional considerations are made based on climate data reported in Anwyll et al. (2016) for the Detour

Lake mine, which is based on the longer-term climate observations at Kapuskasing, Ontario, and Matagami, Québec.

Figure 4-2 Average Temperature and Precipitation Graph for Kapuskasing (Canadian Climate Normals, 2016)



The Project experiences a cold and temperate climate, classified as Dfb (warm summer continental or hemiboreal) per the Köppen and Geiger classification system. Depending on which measurements are used, the annual average temperature is between 0.3 and 1.3 °C. This includes average daily temperatures from between -17.9 and -18.8 °C in January and 17.4 and 17.5 °C in July. Annual precipitation is approximately 829.5 mm, with 555.7 mm of rain and 307.6 cm of snow each year. The wettest months are June through September.

The prominent prevailing wind direction in the area is west to east throughout the year. In the summer and fall the winds are oriented slightly more from the southwest, while in the winter and spring the orientation is more from the northwest. The mean annual wind speed is approximately 12.6 km per hour. (Anwyll et al. 2016)

Given this climate, exploration and mining activity can be performed year-round.

4.3 LOCAL RESOURCES AND INFRASTRUCTURE

Detour Lake mine is a fully operating mine facility with a 230-kV transmission line, mine site buildings, processing plant, permanent camp, water and sewage treatment plant, airstrip, and well-maintained road. The mine site has accommodations for up to 1019 persons. The region has had continuous mining for many decades and as such has a very strong contractor and supplier base. Skilled mining and other labour is available in the nearby towns and communities, including Cochrane, Kapuskasing, Iroquois Falls, Timmins, and Kirkland Lake. (Anwyll et al. 2016)

4.4 PHYSIOGRAPHY AND VEGETATION

The topographic relief on the Project ranges from 271-285m above sea level. The Project is dominated by open muskeg and sparse stands of black spruce and tamarack. Some areas contain local forests of black spruce and poplar. The area is part of the Hudson Bay Watershed and consequently drainage in the area is generally to the north. On the Property itself drainage is to the south-southeast, via two creeks which drain into the Burntbush River.

5 PREVIOUS WORK

5.1 MINING AND EXPLORATION HISTORY

The exploration history of the Project and nearby past and current producers is described in Table 5-1 and

Table 5-2.

Table 5-1 Mining and Exploration History on the Project

Year	Company	Area	Event
1958	Conwest Exploration Co. Ltd.	Burntbush	Diamond drilling, 9 holes totaling 1962 feet.
1959	Conwest	Burntbush	Diamond drilling, 2 holes totaling 1025 feet.
1959	Tazin Mines Ltd.	Burntbush	Diamond drilling, 3 holes totaling 1000 feet.
1963- 1964	Geological Survey of Canada	Burntbush	Airborne magnetic survey
1965	Rio Tinto	Mikwam	Diamond drilling, 2 holes totaling 692 feet.
1965	Rio Tinto	Burntbush	Diamond drilling, 7 holes totaling 2107 feet.
1974	Dome Exploration Canada Ltd.	Burntbush	Diamond drilling, 8 holes totaling 3171 feet (59 series).
1975	Dome	Burntbush	Diamond drilling, 2 holes totaling 824 feet (59 series).
1976	Geophysical Engineering Ltd.	Burntbush	Diamond drilling, 3 holes totaling 878.9 feet (CC series).
1978	Ontario Geological Survey	Burntbush	Regional geological mapping, OGS Report 199.
1981	Newmont Ltd.	Mikwam	Property staked.
1981	Noranda Exploration Co. Ltd.	Burntbush	Diamond drilling, 3 holes totaling 1401 feet (BR81 series).
1982	Dome	Burntbush	Diamond drilling, 3 holes totaling 1163 feet (165A series).
1982	Noranda	Burntbush	Diamond drilling, 1 hole totaling 605 feet.
1982	Newmont	Burntbush	Line cutting (628.5 km). Magnetic (25405 readings) and Max Min II EM (17892 readings) survey. IP survey (70.1 line km). Diamond drilling, 5 holes totaling 3038 feet (260-83 series).
1983	Newmont	Mikwam	Overburden drilling, 15 holes totaling 2899 feet (MOV-83 series).
1983	Noranda		Ground magnetometer and Horizontal Loop EM survey.
1984	Newmont	Burntbush	Overburden drilling, 44 holes totaling 644.04 m. Diamond drilling, 9 holes totaling 2205.23 m. Overburden drilling, 28 holes totaling 977.19 m. Spheroidal gold study in till concentrates.
1985	Newmont	Burntbush	Diamond drilling, 26 holes totaling 3542.39 m. IP/resistivity survey (9.65 line km). Max min, VLF-resistivity (25 line km).
1986	Newmont	Burntbush	16 drill holes totaling 5034 m. Ground mag survey.
1986	Noranda	Burntbush	Airborne EM survey (958 line km).
1987	Newmont	Burntbush	7 drill holes totaling 2030.88 m.
1987	Glencannon Resources Inc.	Burntbush	Ground VLF EM (~52 line km).

Year	Company	Area	Event
1988	Ingamar Exploration Limited Mikwam J.V.	Burntbush	Airborne mag and VLF survey (56 line km).
1990	(Pamorex, Noranda, Freewest)	Mikwam	Diamond drilling, 8 holes totaling 2326.3 m (MK-90 series).
1990	Noranda Mikwam J.V.	Mikwam	IP survey (~9 line km).
1992	(Trader Resources, Hemlo, Royal Oak) Mikwam J.V.	Mikwam	Diamond drilling, 9 holes totaling 2597 m (MK-92 series).
1994	(Trader Resources, Hemlo, Royal Oak) Mikwam J.V.	Mikwam	Diamond drilling, 9 holes totaling 2893 m (MK-94 series).
1997	(Highwood, Battle Mountain, Royal Oak) Mikwam J.V.	Mikwam	Diamond drilling, 11 holes totaling 3670 m (MK-97 series).
1998	(Highwood, Battle Mountain, Royal Oak)	Mikwam	Line cutting and soil geochemical survey.
1999	HRL Mikwam J.V.	Mikwam	Airborne total field magnetic and EM survey.
2005	ESO Uranium Corp.	Mikwam	Airborne AeroTEM II survey (141 line km).
2006	ESO Uranium Corp.	Mikwam	Diamond drilling, 18 holes totaling 6383m (ESO-06 series).
2008	ESO Uranium Corp.	Mikwam	Airborne VLF-EM survey (283 line km).
2009	ESO Uranium Corp.	Mikwam	Surface geochemistry (4 samples).
2010	ESO Uranium Corp.	Mikwam	Claim boundary refurbishing.
2012	ESO Uranium Corp.	Mikwam	Ground Magnetometer and VLF survey (27.55 line km).
2013	Alpha Minerals Inc.	Mikwam	Diamond drilling, 5 holes totaling 1189 m (AL-13 series).

Table 5-2 *Mining and Exploration History of Nearby Producers*

Year	Company	Area	Event
1971	Selco	Selbaie Mine	Airborne EM survey delineated anomalies.
1974	Selco	Selbaie Mine	Diamond drilling, discovery hole.
1974	Amoco	Detour Lake Mine	Airborne and Ground geophysics; diamond drilling discovery hole.
1974	INCO	Casa Berardi Mine	First claims staked.
1975	Amoco	Detour Lake Mine	Initial major diamond drilling campaign to delineate deposit.
1981	INCO	Casa Berardi Mine	Discovery hole and additional staking.
1982		Selbaie Mine	Open pit mining commenced.
1983	Amoco, Campbell & Dome	Detour Lake Mine	Open pit mining commenced on Campbell Pit.
1987	Amoco & Placer Dome	Detour Lake Mine	Underground mining commenced.
1988	INCO and Golden Knight	Casa Berardi Mine	Underground mining commenced.
1997	TVX	Casa Berardi Mine	Mining halted due to ground-control problems and falling prices.
1999	Placer Dome	Detour Lake Mine	Production halted due to falling prices after producing ~1.8M Oz Au since 1983.

Year	Company	Area	Event
2005	BHP Billiton	Selbaie Mine	Mining completed. Total production estimated at 53M t @ 1%Cu, 2.0% Zn, 0.6 g/t Au, and 41 g/t Ag.
2006	Aurizon	Casa Berardi Mine	Mining restarted.
2009	Detour Gold	Detour Lake Mine	Pre-feasibility study outlining 8.81M Oz Au.
2010	Detour Gold	Detour Lake Mine	Feasibility study outlining 11.39M Oz Au.
2011	Detour Gold	West Detour	Mineral resource 1.67M Oz Au indicated and 0.67M Oz Au inferred.
2013	Detour Gold	Detour Lake Mine	Open pit mining commenced.
2015	Detour Gold	Zone 58N	~37 km diamond drilling and IP survey.
2016	Detour Gold	Zone 58N	~52 km diamond drilling.
2018	Detour Gold	Zone 58N	Mineral Resource Estimate published.
2018	Hecla Mining	Casa Berardi Mine	~160k oz Au produced.
2019	Hecla Mining	Casa Berardi Mine	High-Grade Au intercepts reported from East Mine exploration and definition drilling.

5.2 PREVIOUS RESOURCE ESTIMATES AND ECONOMIC STUDIES

The current resource for the Mikwam Gold Property was reported in a 2016 Technical report (Jobin-Bevans et al. 2016).

Table 5-3 Current Resource, Mikwam Gold Property (Jobin-Bevans et al. 2016)

Resource Category	Quantity (Tonnes)	Grade Au (g/t)	Contained Au (Ounces)
Inferred	1,810,000	2.34	136,000

6 GEOLOGICAL SETTING AND MINERALIZATION

6.1 REGIONAL GEOLOGY

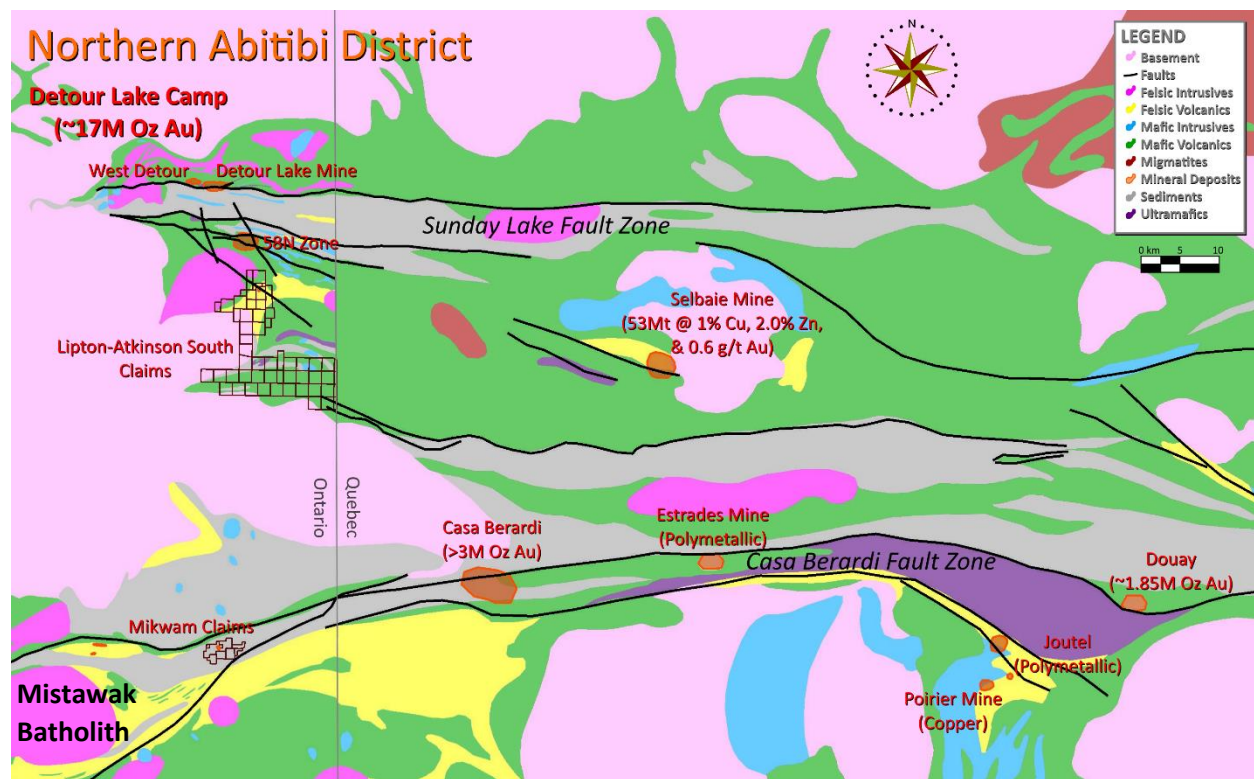
The Project is located in the northern portion of the Abitibi Greenstone Belt (Figure 6-1). It is underlain by Archean-aged volcanic, sedimentary, and intrusive rocks which have been regionally metamorphosed from greenschist to amphibolite facies. The Property has been interpreted as lying in the Harricana-Turgeon Belt sub-province. This sub-province hosts polymetallic deposits and several well-developed gold deposits such as Casa-Berardi and Detour Lake.

The interpretation of the geology at the Property has been limited by the thick glacial overburden and the lack of outcrop exposures on either the Ontario or Quebec side of the border. The geology of the belt has been summarized by Lacroix et al. (1990) and Johns (1982). The belt contains several large-scale granitic intrusions surrounded by metavolcanics and metasedimentary rock sequences, variably altered, as well as numerous minor mafic to ultramafic intrusions. The Mistawak Batholith is the most prominent and most relevant to Mikwam due to its proximity (see Figure 6-1). The Property lies to the northeast of the intrusion, in an east-west striking sequence of Archean-aged metavolcanics/metasediments. The sequences include felsic

to mafic metavolcanics, as well as clastic metasediments and iron-rich chemical metasediments (iron formations). The metamorphic event occurred between 2.6 and 2.7 Ga, and caused low pressure, contact, and regional metamorphism of greenschist- and lower amphibolite-facies. Cross-cutting all features of this sequence are Early Proterozoic diabase dikes.

The major regional structure near the Property is the Casa Berardi Deformation Zone (CBDZ). This is a major, subvertical, 4 to 6 km wide and at least 60 km long regional structure. The CBDZ is associated with a high level of deformation, with bands of strongly deformed rock in contact with lenses that are only weakly deformed. Asymmetric folds cause repetition of lithologies at all scales. The CBDZ is also associated with numerous shears of variable intensity, foliations, ankerite enriched bands, and a stretching lineation which plunges from 70° to 80° toward the WSW in the Casa Berardi mine area. (Pilote et al. 1990)

Figure 6-1 Regional Geology Map (adapted from Percival & Easton, 2007; DGC, 2016; and ERNQ, 2012)



The region has been extensively covered by up to 35 m of Pleistocene age glacial overburden deposits that consist of tills, varved clays, silt, and gravel. Four periods of ice movement have been documented in the area (Veillette, 1989) accompanied by associated interglacial periods.

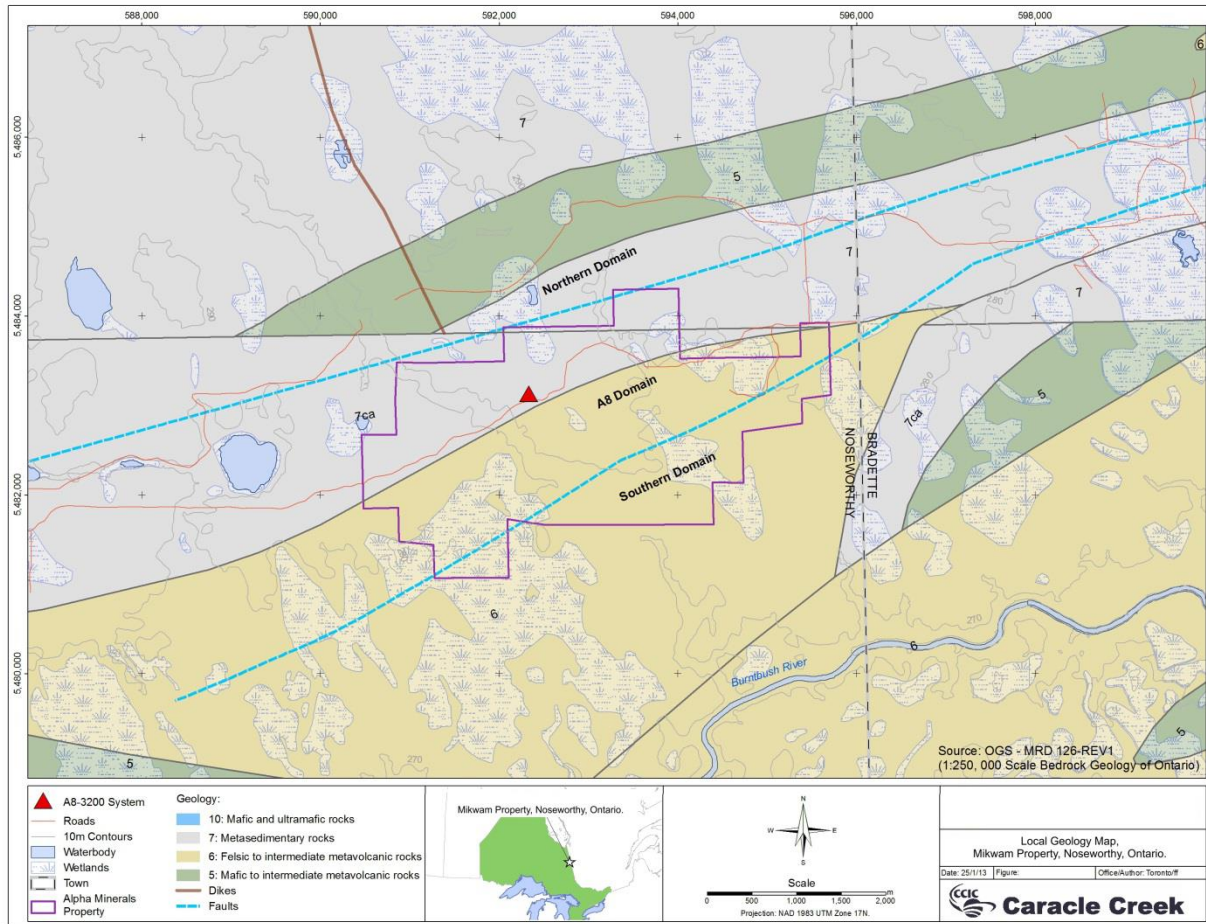
6.2 LOCAL GEOLOGY

The following descriptions are reformatted and where necessary altered from Jobin-Bevans (2016).

Information on the local geological setting has been derived mainly from widespread diamond drilling and overburden chips, with some information being provided by outcrop

exposures in the vicinity of the Burntbush River. The area of the Property is underlain primarily by mafic metavolcanic, felsic metavolcanic, metasedimentary and felsic intrusive rocks. Pressacco (1994) and Jensen (2002) have divided the geological units into the following three domains, separated by two major faults that are most likely part of the CBDZ fault system

Figure 6-2 Simplified Local Geology (adapted from Jobin-Bevans, 2016)



Northern Domain

The Northern Domain consists of thick sequences of mafic to intermediate flows and pyroclastic rocks and turbiditic sedimentary rocks separated by prominent unit of oxide iron formation. The metamorphic grade is more elevated than units to south, generally being in the amphibolite facies. The Northern Domain lies mostly just north of the Property boundary.

A8 Domain

The A8 Domain consists of a diverse assemblage of interbedded turbiditic sediments (greywacke, argillite, and conglomerate), intermediate to felsic pyroclastic rocks with minor flows, chert, intrusive porphyry, and minor oxide-sulphide iron formation. This assemblage strikes in northeast-southwest direction and dips generally sub-vertically. Drill core evidence demonstrates that the entire area has been subjected to a strongly developed folding event. Fold noses are

observed in the fine clastic sediments throughout the A8 Area and may be small-scale parasitic folds on larger scale folds (Figure 7-4). Zones of extremely blocky core, poor recoveries, fault gouge, and shear intervals hint at the presence of multi-stage deformation. The most well defined and continuous zone of alteration and mineralization is developed within central portion of the A8 Domain. A broad zone of ankerite alteration, strong schistosity and abundant brittle-ductile faulting, greater than 200m in width, has been defined by drilling along a strike length of 7km. Gold mineralization occurs in quartz-carbonate veins and silicified zones which carry significant amounts of pyrite and arsenopyrite

Southern Domain

The Southern Domain consists primarily of mafic volcanic with minor ultramafic rocks and intercalations of graphitic and sulphidic argillite. The northern limit of the domain is marked by the Southern iron formation. The iron formation is best developed in Bradette Township, east of the Property, where it occurs as a distinctive jasper-magnetite Iron Formation.

All three domains trend in an east-northeast direction across the Property. Their geometry is complicated by a series of northwest trending transverse structures. The A8 Domain contains the 3200 Vein area which has been the focus of past and present drill campaigns (Figure 7-4). This area is a zone of quartz flooding and sulphidization (mainly pyrite and arsenopyrite) at or near the contact of chloritic iron formation and either argillite (hanging wall) or conglomerate (footwall).

6.3 MINERALIZATION

The following descriptions are reformatted and where necessary altered from Jobin-Bevans (2016).

Recent exploration on the Mikwam Property concentrated on the A8 3200 vein system that consists of a zone of quartz flooding, silicification, and sulphidization which lies at or near the contact of chloritic iron formation and either argillite or conglomerate (Figure 7-4). The zone is observed to locally crosscut lithological boundaries. Discrete quartz veins do occur in this zone, but assay results indicate these are lower in grade than the highly sulphidized sections. Five to 50% medium to coarse grained cubic pyrite and 1 to 5% coarse grained arsenopyrite within a highly sericitized, quartz flooded matrix comprises the bulk of the zone that tends to carry higher gold grades. Pressacco (1994) reported the best gold values tend to be associated with pyrite containing vugs (Figure 7-5). In other instances, however, pyrite has been reported as an indicator of lower gold values (<3 g/t). The A8 3200 vein system strikes approximately east-west, and dips steeply north but appears to change direction to strike approximately 115° to 145° near the middle of the zones due to folding. A steep moderate westerly plunge is indicated for the zone.

Several additional styles of mineralization are present also across the Property. Minor to 1% fine grained disseminated pyrite is ubiquitous in most lithologies. Quartz-carbonate and quartz-ankerite stringers and veinlets, parallel to or cutting foliation are also common. Minor amounts of brown or black tourmaline are commonly observed in these stringers and veinlets. At least two generations of veining appear to be present: some sets exhibit boudinage texture and folding while others are significantly less deformed.

Coarse-grained cubic and nodular pyrite is common in the graphitic argillite units. Locally, the nodular pyrite forms semi-massive sections. Semi-massive bedded pyrite up to 30cm thick also occurs in the graphitic argillite and carries gold values up to 1.573 g/t Au over 0.3 m (Barber, 1997).

Wide sections of fine-grained stringer and disseminated pyrite and pyrrhotite within felsic lapilli-tuffs have been observed. Sections of semi-massive to massive pyrite-pyrrhotite veins also occur. While the pyrite has a vuggy texture similar to that observed in the A8 3200 vein system, samples were reported to return insignificant gold values.

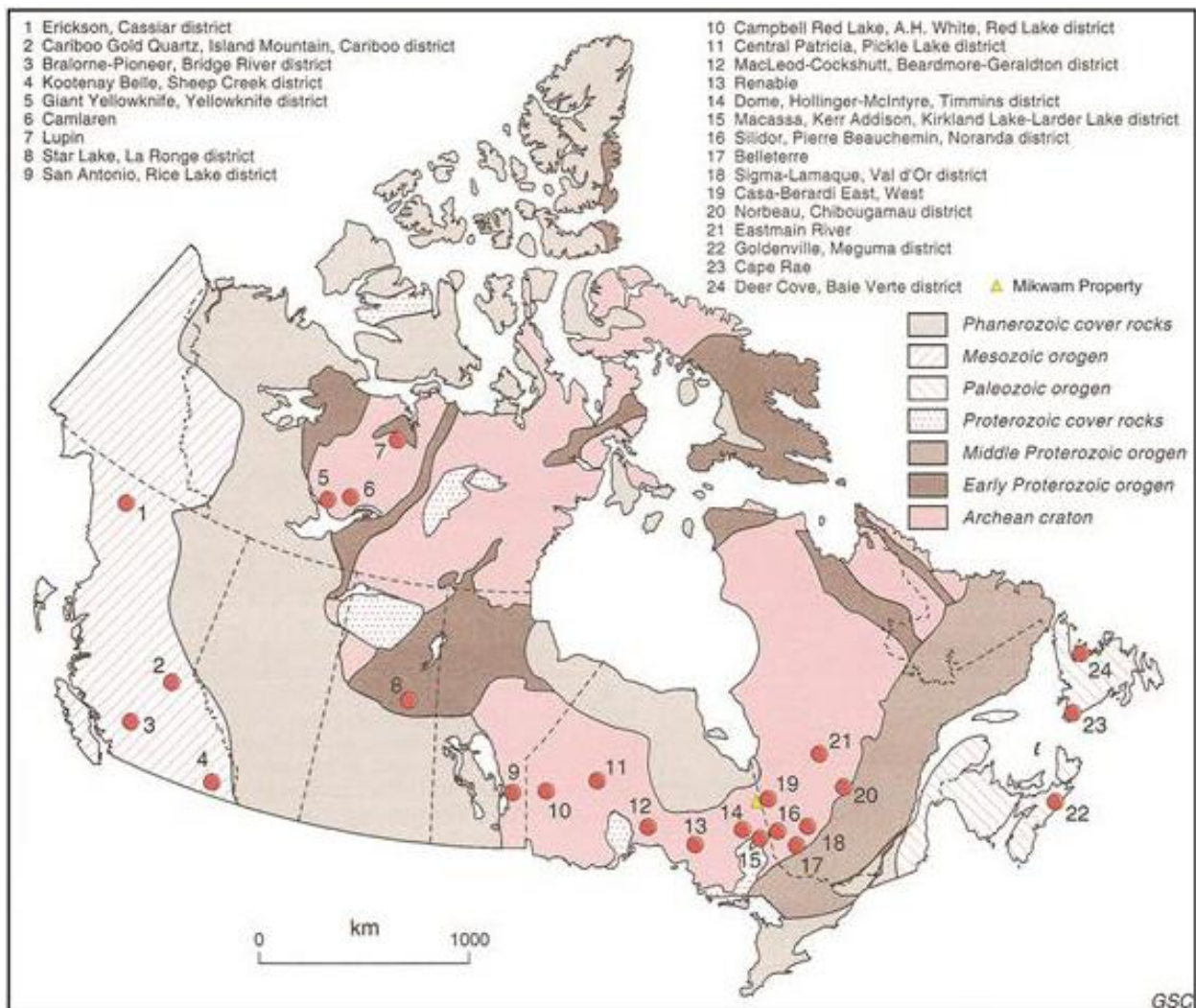
The mineralized zone is approximately 330 m long (east-west), 330 m wide (north-south) and 500 m deep and consists of eight lenses.

7 DEPOSIT TYPES

The Mikwam deposit is host to Archean age, quartz-carbonate vein gold, and is most directly assumed to be analogous to the nearby Casa Berardi mine, and more broadly with the entire range of similar deposits in the Abitibi district. Casa Berardi is interpreted as an Archean age, sedimentary-hosted lode gold deposit. In the Abitibi, gold deposits of Archean age dominantly consist of epigenetic disseminated and vein-hosted deposits, and syngenetic gold-rich massive sulphides. It is possible for both to occur, especially in areas where deformation and metamorphism has overprinted the volcanic stratigraphy. Gold concentration is controlled by a series of hydrothermal, metamorphic, and deformative events, which are all important to consider in exploration. (Archambault-Giroux et al 2019)

In the Abitibi, these quartz-carbonate vein gold systems are often associated with steeply dipping shear zones, and can extend at depth in excess of 1 km.

Figure 7-1 Distribution of selected Canadian quartz-carbonate vein gold deposits and districts (Jobin-Bevans 2016)



8 ADJACENT PROPERTIES

8.1 DETOUR GOLD

The Project is directly adjacent to (completely surrounded by) the Detour Gold Corp's Burntbush Property. The Burntbush Property consists of two claim groups (East and West) which are located along the Casa Berardi deformation zone. Mikwam is surrounded by the East Burntbush claim group. Detour Gold has performed limited exploration on the Burntbush Property. In 2018 an Airborne VTEM survey was performed on the Burntbush Property.

9 CURRENT WORK

9.1 EXPLORATORY DIAMOND DRILLING – WINTER (FEBRUARY-APRIL)

9.1.1 Summary of Work Performed

- February 21st to April 3rd, 2018 (42 days)
- Objective of program: to drill 10 holes, 4 testing a VTEM anomaly about 1 km west of the Mikwam deposit, 1 testing another VTEM anomaly 500 m to the south of the west anomaly, and 5 testing the limits of the Mikwam mineralization based on the previous understanding.
- Work performed by NPLH Drilling
- Work performed for Aurelius Minerals Inc.
- The drill program consisted of a “winter road” program. All equipment and materials were transported to site via a winter road, by truck. All equipment and materials were removed from site via helicopter. Drill pads, where required, were cleared to minimal required size used chainsaws. No rehabilitation was required other than removal of all materials and garbage produced during the program.
- 10 diamond drillholes were drilled for a total length of 2692 m (see Table 9-1).

Table 9-1 2018 Winter Diamond Drillholes

DRILLHOLE	LOCATION (UTM NAD83 17N)	AZIMUTH	DIP	LENGTH	# OF SAMPLES	# OF ASSAYS
AUL-18-01	591085E 5482725N	135	-50	300	204	229
AUL-18-02	591085E 5482725N	135	-60	322	213	244
AUL-18-03	591200E 5482655N	180	-50	252	153	172
AUL-18-04	591200E 5482655N	200	-50	372	231	257
AUL-18-05	592455E 5483130N	180	-50	225	149	164
AUL-18-06	592280E 5483180N	180	-45	126	60	68
AUL-18-07	592280E 5483180N	180	-65	108	49	54
AUL-18-08	592270E 5483475N	185	-55	492	314	349
AUL-18-09	592230E 5483290N	175	-50	252	142	158
AUL-18-10	591375E 5481790N	155	-50	245	145	161

Note: In addition to the core sampling, 196 certified blanks and standards were inserted into the assay batches before delivery.

9.1.2 Location

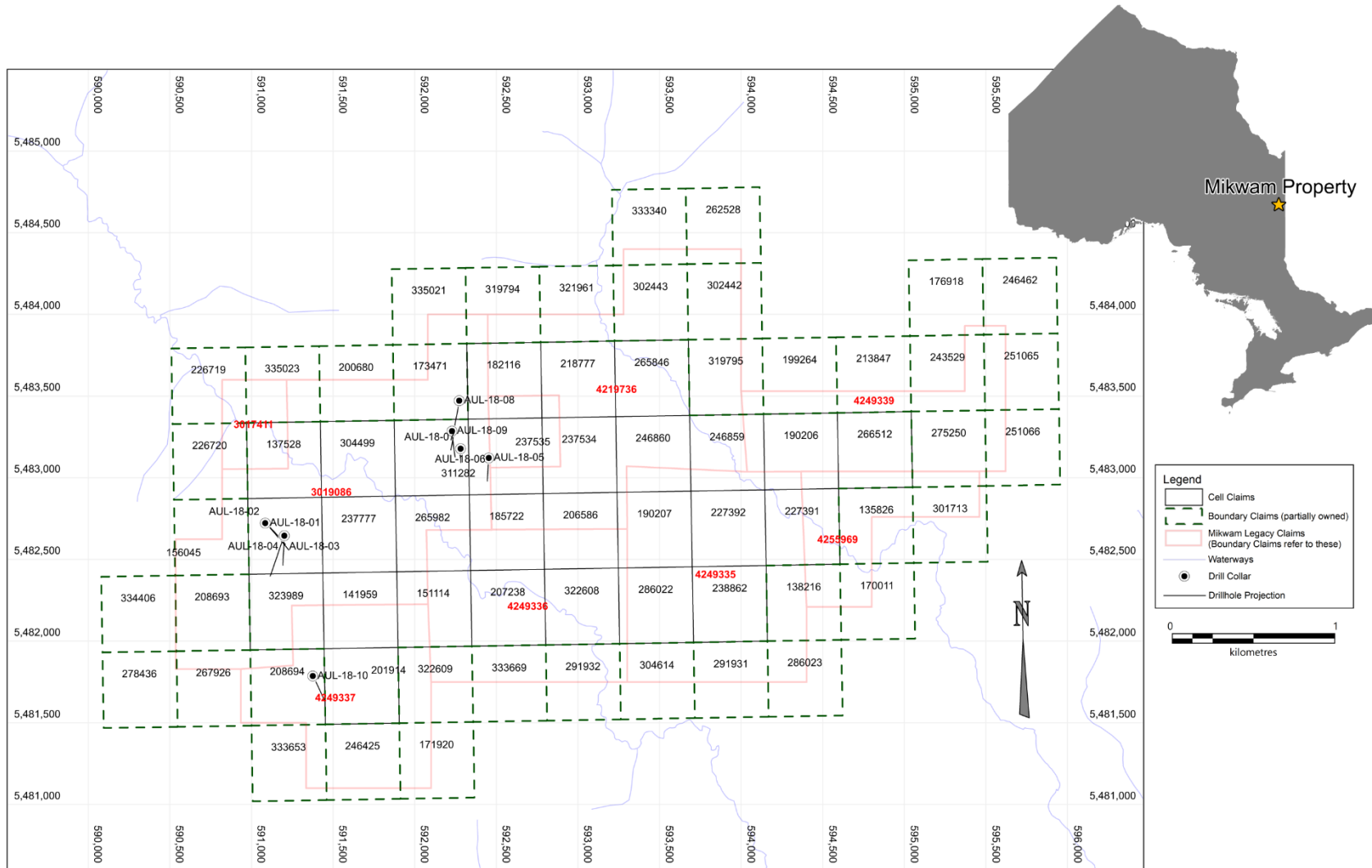
All work was performed in the Noseworthy township. All claims are owned by Aurelius (previously optioned from ALX Uranium Corp.). The Cell numbers worked on are 141958, 323989, 237535, 156044, 311282, 208694 (Legacy Claims 3019086 and 4249337). See Figure 9-1.

.For the purposes of delivering and retrieving equipment and materials, the Property was accessed by driving from Cochrane to Hopper Lake along the Detour Highway (ON-652 N) for 99 km, then along Chabbie Lake Road for 33 km, and finally by winter road approximately 26

km to the Project area. A temporary camp of trailers was set up on the claims in the vicinity of historical camps and was torn down and removed at the end of the program.

The work was performed under Exploration Permit PR-17-11070.

Figure 9-1 Map of 2018 Winter Drill Program



9.1.3 Summary of Results

The first four holes of the program were all drilled to the west of the known area of mineralization. The results showed anomalous gold and similar rock types to the deposit area, but without the proper structures. Further geophysical work is required to target this area of the Property.

The next five holes were all drilled around the deposit area. Mineralization was extended both vertically and laterally, and a basis for a better understanding of the structural and lithological controls on mineralization was established.

The final hole was drilled on a previously untested anomaly to the southwest. A “new” rock type was intersected, indicating a major contact somewhere between the previously drilled areas and this. The anomaly itself did not yield any mineralization.

The following highlights the results:

Table 9-2 Gold assay highlights in AUL-18-01 through AUL-18-10

Hole	From (m)	To (m)	Length (m)	Gold (g/t)	Target
AUL-18-01/02	No significant values (“NSV”)				Mikwam West
AUL-18-03	231.5	252	20.5	0.02	Mikwam West
AUL-18-04	273	343.5	70.5	0.03	Mikwam West
AUL-18-05	68	71	3	0.75	Mikwam
AUL-18-06	73.9	90	16.1	0.69	Mikwam
including	78	87	9	1.06	
AUL-18-07	86	108	22	3.72	Mikwam
including	96	106	10	7.16	
and including	102	103	1	30.2	
AUL-18-08	NSV				Mikwam
AUL-18-09	Several anomalous intervals over 0.2 g/t gold				Mikwam
AUL-18-10	NSV				Mikwam South-West

Holes AUL-18-05 through AUL-18-09 were drilled in the vicinity of the Mikwam deposit. Holes were planned to test interpreted down plunge continuity, eastern continuity, and up-dip continuity to the zone.

Holes AUL-18-06 and AUL-18-07 both intersected impressive wide intervals of quartz vein breccia. The holes provide good continuity of mineralization in the up-dip direction from the mineral resource. Both holes intersected zones greater than 15 m wide and, in the case of hole AUL-18-07, gold grades up to 30.2 g/t over one metre were identified.

AUL-18-08 tested the western down plunge continuity of the mineralization. Mineralization was intersected but appeared to narrow. Based on the geophysics in the area it appears in holes AUL-18-08 and AUL-18-09 that a post-mineralization fault in this area has displaced the zone. The Company is modeling the geology with historical information to enhance its geological interpretation. All drill logs can be found in the Appendices.

9.2 EXPLORATORY DIAMOND DRILLING – SUMMER (AUGUST-SEPTEMBER)

9.2.1 Summary of Work Performed

- August 24th to September 30th, 2018 (38 days)
- Objective of program: to drill 17 holes, with the aim to expand the gold zone hosting the Mikwam deposit. Systematic targeting of historical drilling to fill in areas where spacing exceeded 25m on strike and 50m down-dip.
- Work performed by Norex Drilling Limited
- Work performed for Aurelius Minerals Inc.
- The drill program consisted of a “fly” program. All equipment and materials were transported to site via helicopter. All equipment and materials were removed from site via helicopter. Drill pads, where required, were cleared to minimal required size using chainsaws. No rehabilitation was required other than removal of all materials and garbage produced during the program.
- 17 diamond drillholes were drilled for a total length of 3923 m (see Table 9-3).

Table 9-3 2018 Summer Program Diamond Drillholes

DRILLHOLE	LOCATION (UTM NAD83 17N)	AZIMUTH	DIP	LENGTH	# OF SAMPLES	# OF ASSAYS
AUL-18-11	592304E 5483183N	175	-45	125	42	46
AUL-18-12	592304E 5483183N	175	-65	152	61	67
AUL-18-13	592304E 5483231N	180	-55	176	64	71
AUL-18-14	592304E 5483231N	180	-65	201	67	74
AUL-18-15	592304E 5483231N	180	-75	275	90	100
AUL-18-16	592303E 5483356N	185	-63	383	174	195
AUL-18-17	592303E 5483356N	180	-70	452	102	113
AUL-18-18	592303E 5483356N	180	-56	401	89	103
AUL-18-19	592279E 5483246N	180	-63	242	71	80
AUL-18-20	592250E 5483200N	180	-45	125	53	60
AUL-18-21	592250E 5483200N	180	-65	143	50	58
AUL-18-22	592350E 5483130N	180	-50	125	30	34
AUL-18-23	592350E 5483130N	180	-65	152	46	51
AUL-18-24	592350E 5483230N	180	-55	251	70	79
AUL-18-25	592350E 5483230N	180	-65	302	93	104
AUL-18-26	592384E 5483181N	180	-50	152	28	31
AUL-18-27	592384E 5483181N	180	-75	266	39	44

Note: In addition to the core sampling, 141 certified blanks and standards were inserted into the assay batches before delivery.

9.2.2 Location

All work was performed in the Noseworthy township. All claims are owned by Aurelius (previously optioned from ALX Uranium Corp.). The Cell numbers worked on are 237535 and 311282 (Legacy Claim 3019086). See

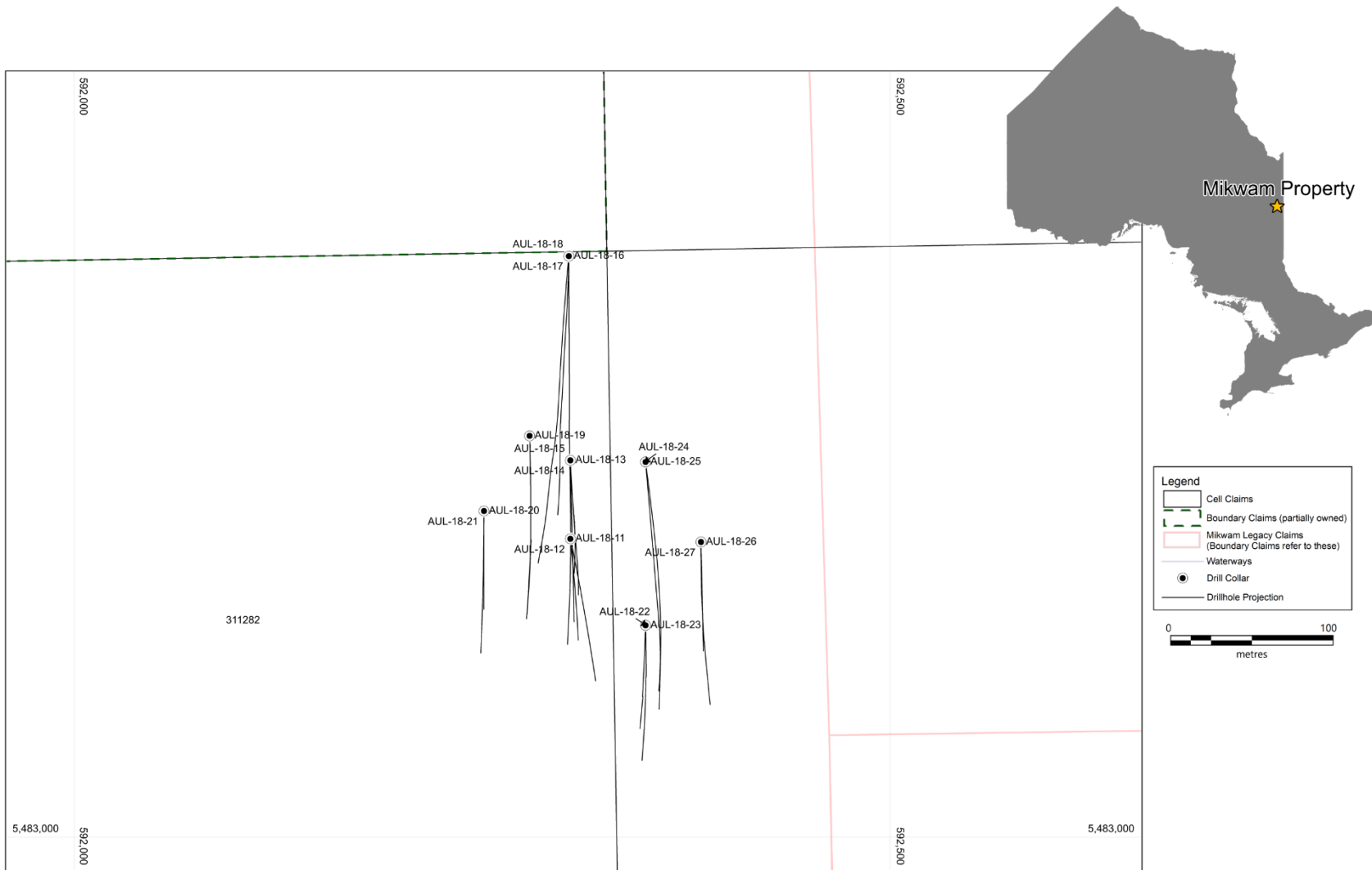
Figure 9-2.

For the purposes of delivering and retrieving equipment and materials, the Property was accessed by driving from Cochrane to Hopper Lake along the Detour Highway (ON-652 N) for 175 km, then flying the remaining 16 km by helicopter (contracted from Expedition Helicopters) from Hopper Lake to the Project area.

For the purposes of the drilling shifts, the Property was accessed via helicopter (contracted from Expedition Helicopters) from Cochrane to the Project area (~105 km).

The work was performed under Exploration Permit PR-17-11070.

Figure 9-2 Map of 2018 Summer Drill Program



9.2.3 Summary of Results

This program successfully targeted and drilled off mineralization at the Mikwam deposit. All 17 holes save for one (AUL-18-17) intersected significant gold mineralization. Historical data was compiled and verified and was used successfully to target mineralization. This program also succeeded in intersecting higher grades in some intersections that may indicate a high-grade trend in the deposit. Results are presented in Table 9-2.

Table 9-4 Gold assay highlights in AUL-18-11 through AUL-18-27

Hole ID	From (m)	To (m)	Length (m)	Gold g/t
AUL-18-11	93.5	106	12.5	0.55
AUL-18-12	90.5	98	7.5	0.27
and	103	109.5	6.5	2.4
and	111.5	115.5	4	0.33
AUL-18-13	134.5	156	21.5	4.15
including	138.5	140.5	2	8.05
and	144.5	149.5	5	10.45
AUL-18-14	151.2	187	35.8	1.64
including	158	166	8	2.72
AUL-18-15	195.6	221.7	26.1	7.08
including	207.5	212.5	5	11.82
and includes	210.5	211.5	1	24.3
and	214.5	221.7	7.2	9.36
AUL-18-15	245.5	253.6	8.1	1.53
including	245.5	246.5	1	9.9
AUL-18-16	223.5	227	3.5	0.78
and	233	237	4	0.97
and	255.8	262.5	6.7	1.88
and	325.5	339	13.5	7.08
including	326.5	333	6.5	11.99
AUL-18-16	343	347	4	2.01
AUL-18-16	356	363	7	4.81
including	358	360	2	13.87
AUL-18-16	365	367	2	2.63
AUL-18-17	NSV			
AUL-18-18	181	190	9	1.17
and	284	285	1	4.7
and	289.5	301	11.5	3.02
including	289.5	295	5.5	5.19
and	322	326	4	0.7

Hole ID	From (m)	To (m)	Length (m)	Gold g/t
AUL-18-19	163.5	188	24.5	2.29
including	164.5	168.5	4	3.82
including	176.5	185.9	9.4	3.33
AUL-18-20	84	105	21	1.35
including	86.5	89.5	3	6.25
and	119	124	5	1.63
including	119	120	1	6.44
AUL-18-21	92	100	8	1.33
and	108	113	5	1.02
AUL-18-22	48	70.5	22.5	1.07
AUL-18-23	66	95	29	2.2
including	84.5	90.5	6	7.86
AUL-18-24	163	204	41	1.36
including	176	184	8	4.97
and includes	180	184	4	8.86
AUL-18-25	232.1	237	4.9	0.99
AUL-18-26	139	141.4	2.4	0.31
AUL-18-27	205	229.5	24.5	1.05

Further to the gold values, geological investigations at Mikwam have revealed that it is a closer analogue to the Casa Berardi mineralization than previously identified. Given that the deposit appears to be in the vicinity of the western extension of the Casa Berardi Deformation Zone, this is not unexpected.

All drill logs can be found in the Appendices.

9.3 DRILL SECTIONS

The following are drill sections for all holes drilled in 2018.

Figure 9-3 Drill Section 1 (591200E, 500m burden)

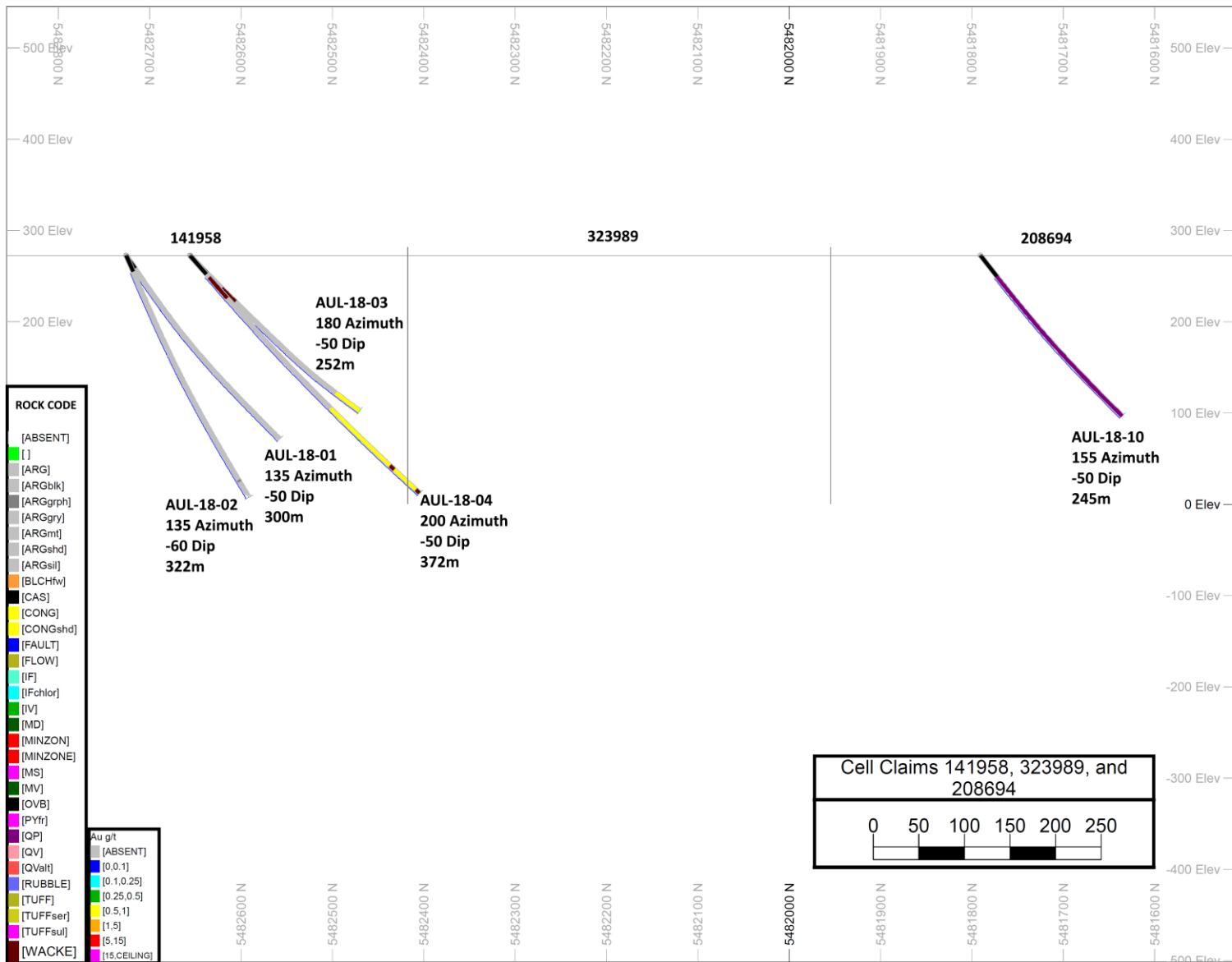


Figure 9-4 Drill Section 2 (592250E, 50m burden)

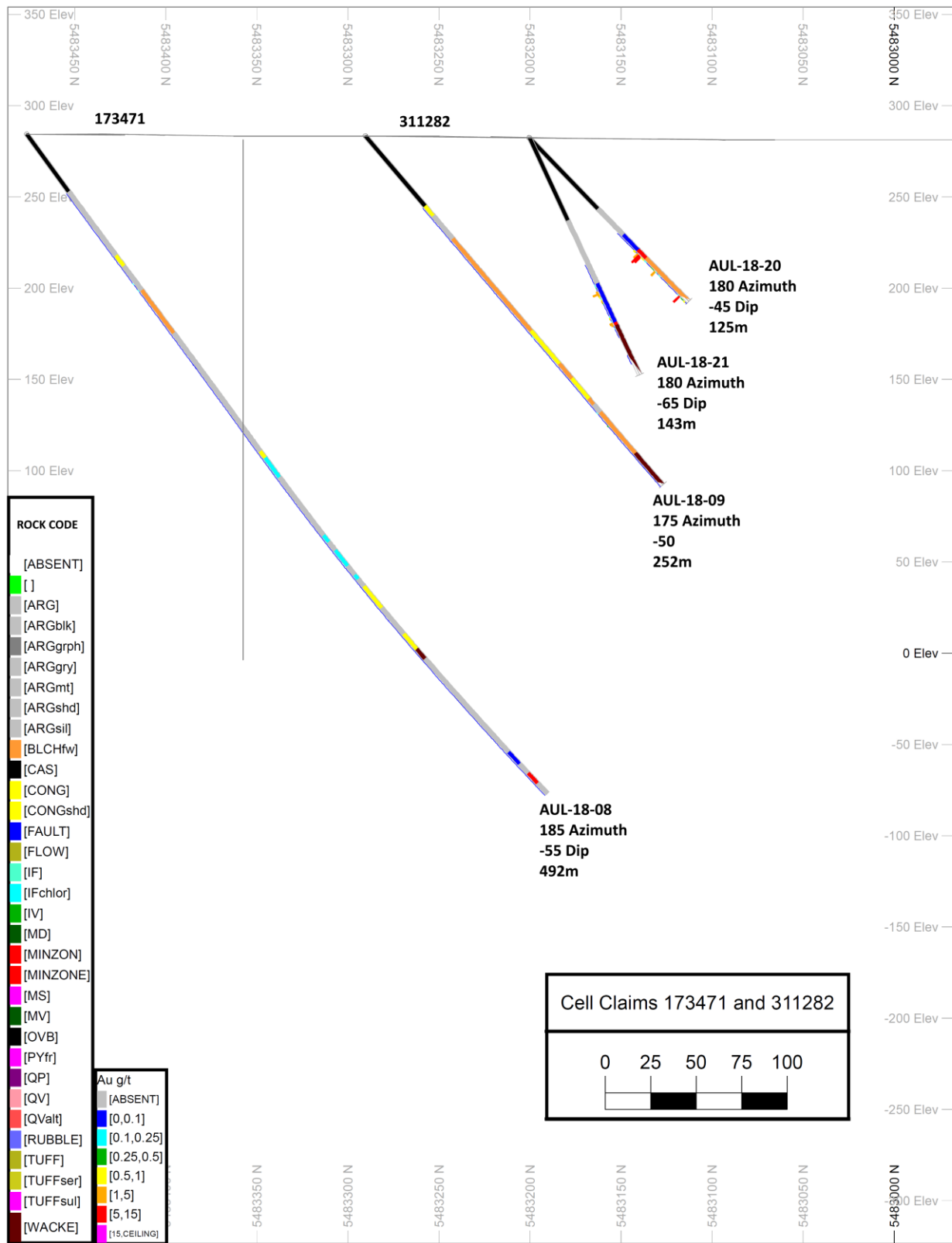


Figure 9-5 Drill Section 3 (592300E, 50m burden)

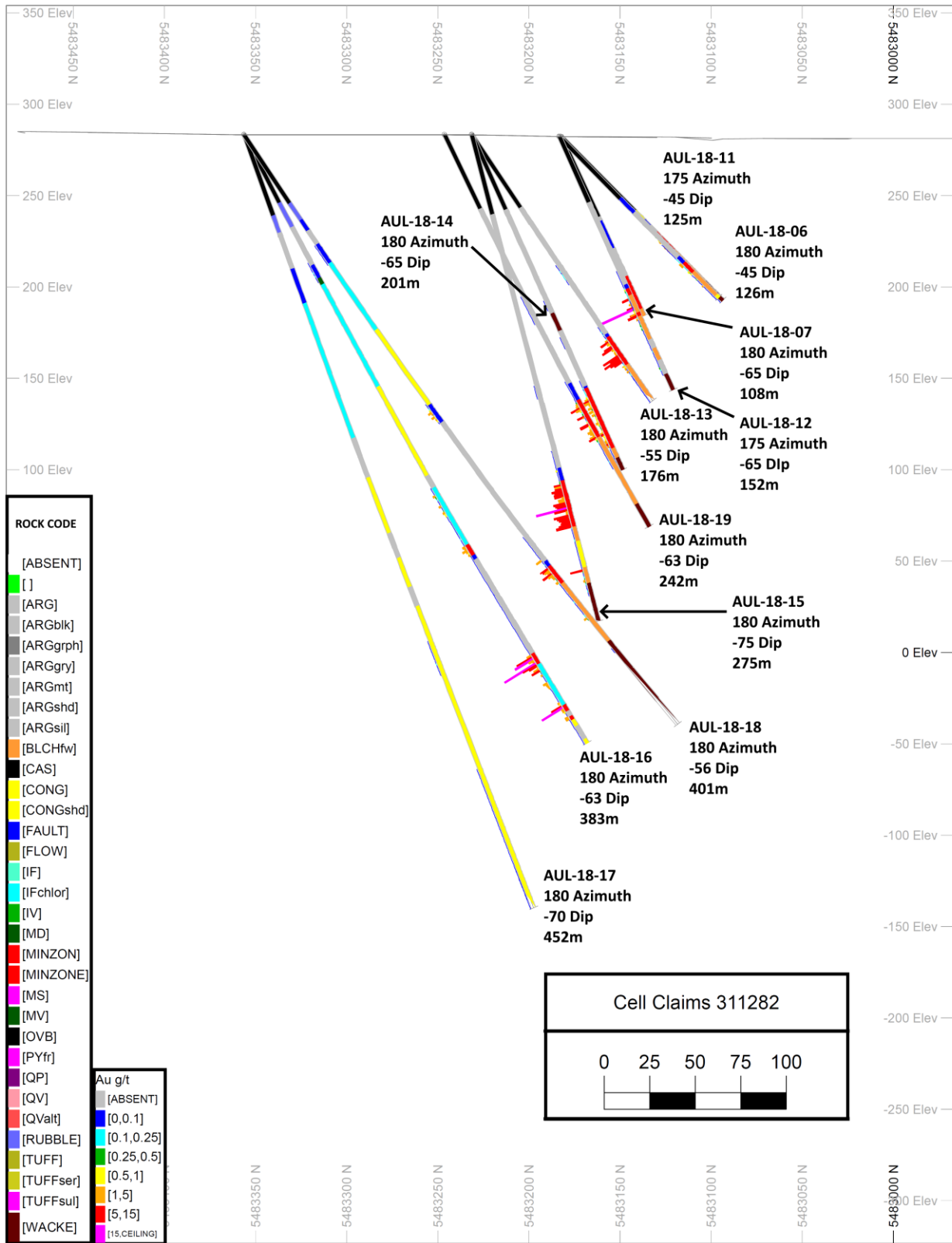


Figure 9-6 Drill Section 4 (592350E, 50m burden)

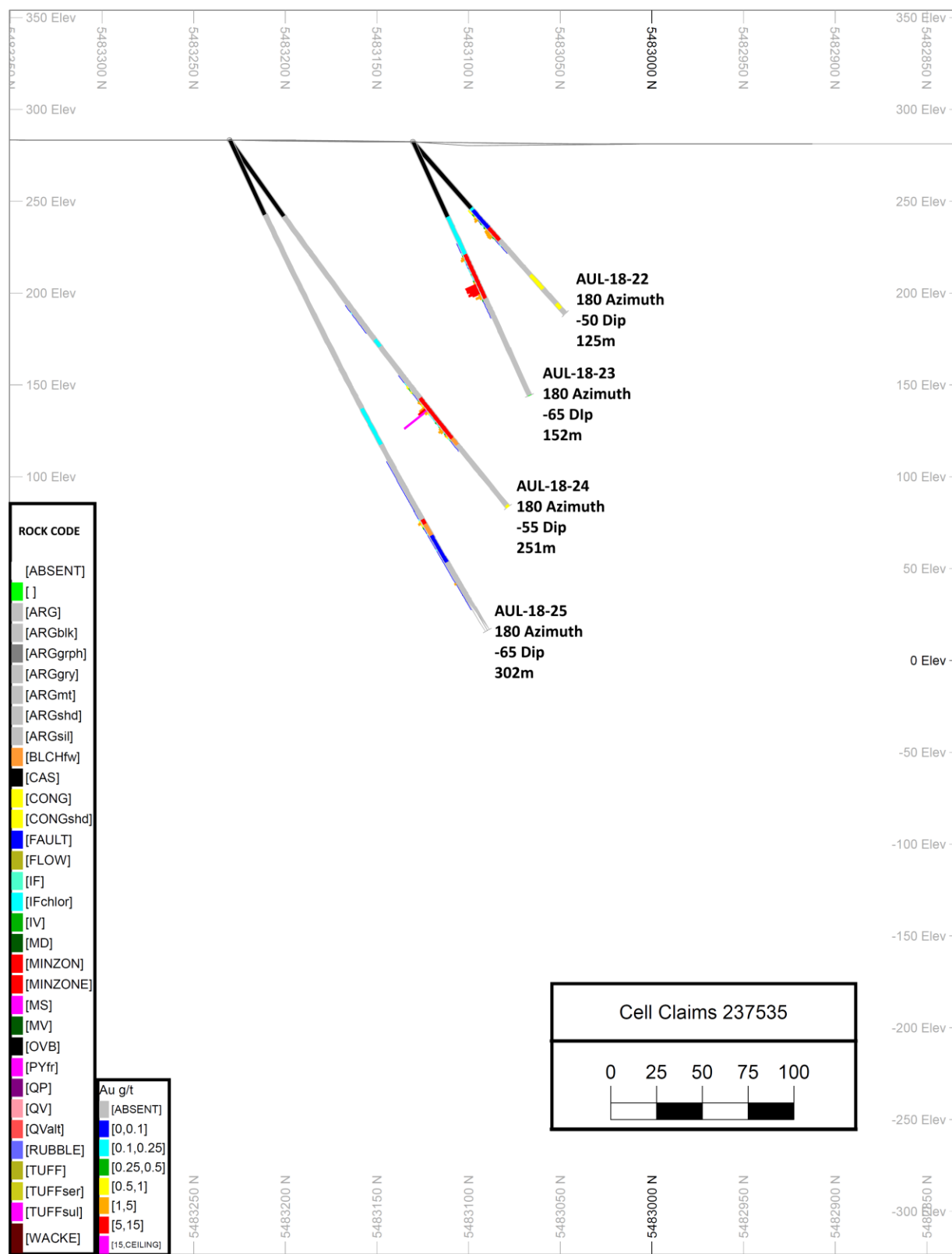


Figure 9-7 Drill Section 5 (592400E, 50m burden)

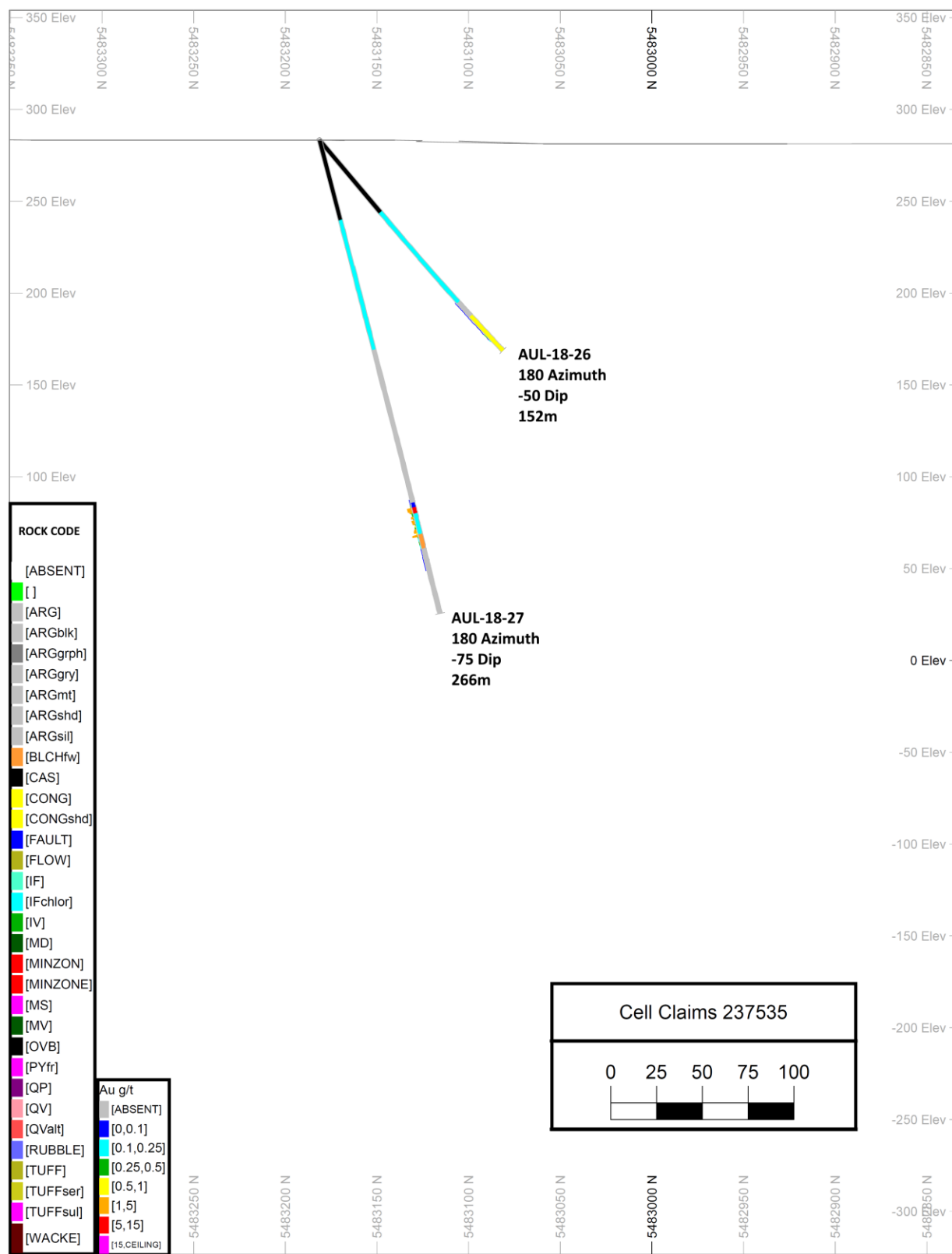
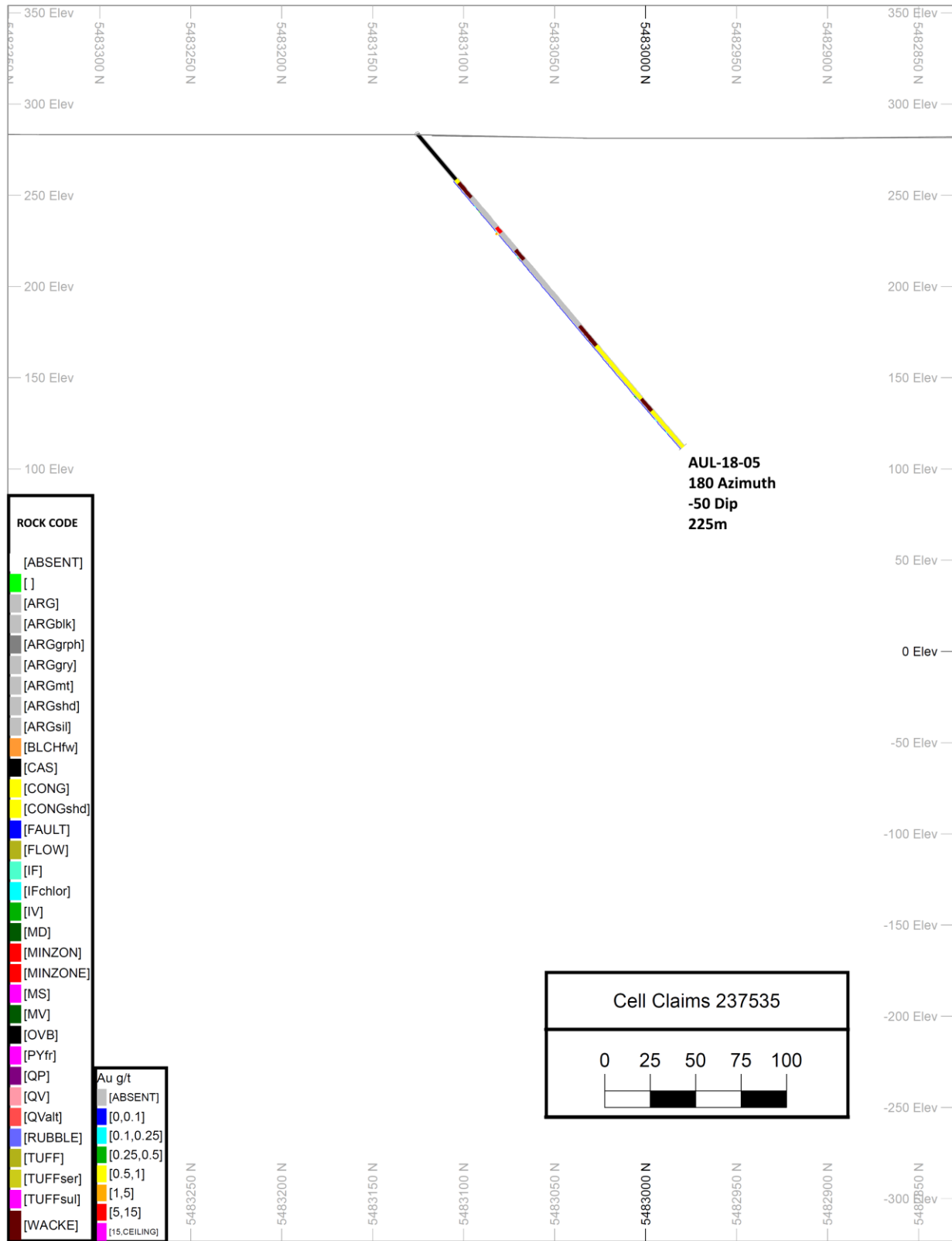


Figure 9-8 Drill Section 6 (592450E, 50m burden)



9.4 CONCLUSIONS AND RECOMMENDATIONS

In conclusion, these drill programs have been judged as a success. All work was completed in a timely and efficient fashion, from a financing perspective. Gold mineralization was encountered in 23 of 27 holes. New targets were discovered, and a new exploration model has been proposed from the results.

It is recommended that future work involve further drilling, as well as Inverse Polarity (IP) ground survey.

Proposed Program:

- Ground IP program
 - Line kms – 30
 - Estimated Cost - \$300,000
- Drilling program
 - Meters – 3,000
 - Number of samples - 1000
 - Estimated Cost - \$500,000

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Data

Google, 2016. Satellite Image © 2016 DigitalGlobe, © 2016 Cnes/Spot Image (Imagery Date 7/11/2013) Captured using Google Earth Pro.

Ministry of Northern Development and Mines (MNDM), 2016. Claim Data, October 21st 2016 update, © Queen's Printer for Ontario, 2016.

Ministry of Northern Development and Mines (MNDM), 2019. Claim Data, Jan 10th 2019 update, © Queen's Printer for Ontario, 2019.

11 CERTIFICATE OF QUALIFIED PERSON

I, Scott Zelligan, B.Sc., P.Geo., of Coldwater, Ontario, do hereby certify:

- I am an independent consulting Geologist with an address of 3357 Beechwood Drive, PO Box 818, Coldwater, Ontario, L0K 1E0.
- This certificate applies to the report entitled “Assessment Report - Mikwam Project for Aurelius Minerals Inc.”, dated 24th December, 2019 (the “Assessment Report”).
- I am a graduate of Carleton University (B.Sc. Honours, 2008). I am a member in good standing of the Association of Professional Geoscientists of Ontario, License #2078. My relevant experience is more than eleven years of working in mineral exploration, operational mining, and mineral project assessment, including: five months working underground in a producing mine in a greenstone-hosted lode gold deposit; three years working in exploration including a structurally controlled gold deposit; and eight-plus years modeling, estimating, and evaluating mineral properties including several gold deposits. I am a “Qualified Person” for the purposes of National Instrument 43-101 (the “Instrument”).
- My most recent personal inspection of the Project was March 2019 for three days.
- I am responsible for all sections of the Assessment Report.
- I have read “Technical Standards for Reporting Assessment Work” (the “Standards”) dated July 5, 2018, produced Under the Provisions of the Ontario Mining Act, R.S.O 1990, and the Assessment Report has been prepared in compliance with the Standards.
- As of the date of this certificate, to the best of my knowledge, information and belief, the Assessment Report contains all scientific and technical information that is required to be disclosed to make the Assessment Report not misleading.

Signed and dated this 24th day of December 2019 at Coldwater, Ontario.

“signed and sealed”

Scott Zelligan, B.Sc., P.Geo.
Independent Consulting Geologist

APPENDICES

Header

DDH ID **AUL-18-01**

	Claim #	East	North	Az	Dip	EOH (m)	<i>(Nad 83)</i>
Location	3019086	591085	5482725	160	-50	300	

Purpose Test magnetic feature with interpreted fold pattern similar to Mikwam 1.2 km east.

Start date Feb 21 2018

End date Feb 25 2018

Drill Contractor NPLH

Logged By T.Keast

Comments

Description

BHID	From	To	Litho	Comment
AUL-18-01	0	19.5	CAS	Casing through Overburden
AUL-18-01	19.5	300.0	ARGgry	<p>Dark grey - black. Very fine grained. Thick package of fine sediments-argillites. Well foliated with discrete bands/beds of variable grey-black. Contacts of beds can be sharp and show rip up rare scattered clasts and flame structure. Tops direction suggested downhole.</p> <p>Hardness is generally mod to hard can be scratched to just able to be scratched. Disseminated py <1% in cubes up to 8mm and rare scattered discontinuous po stringers 1-3mm</p> <p>Carbonate stringers variable 1-3% parralel to foliation</p> <p>Numerous small scale folding throughout the core.</p> <p>EOH - Casing Left in Hole.</p>
	From	To		
	212.0	214.8		Broken blocky core
	246.0	249.0		1 cm wide epidote sereicite bands parallel to foliation
	256.0	269.0		Beds are generally less well defined and lighter grey color to the unit. Individual beds/bands still present
	276.5	288.5		Interval of moderate to weak vein development. Slight increase in foliation. 3-5% qtz veins tr py.
	294.5			Fold closure of chert band. Possible fold interference pattern. Photos
	298.0	300.0		Dark black soft argillite dirty on fingers, not conductive with ohmmenter.

Mineralization

BHID	From	To	Qtz Veins %	Py %	Po %	Arseno %	Comments	Conductors (tested with ohmeter)
AUL-18-01	39.8	41.2	5	1			Chaotic brecciated veins parallel and crosscutting foliation	
AUL-18-01	44.0	45.0	3	1			Chaotic brecciated veins parallel and crosscutting foliation	
AUL-18-01	81.0	89.0				1	Narrow 2mm discontinuous po stringers	Weak conductor along stringer 2cm. Not conductive across the core diameter
AUL-18-01	160.2	160.3				1	Narrow 4mm discontinuous po stringers	Weak conductor along stringer 1cm. Not conductive across the core diameter
AUL-18-01	177.0	181.5	5	1			Narrow cm wide cross cut and parallel to foliation	
AUL-18-01	189.2	198.6	5	1			Narrow cm wide cross cut and parallel to foliation	
AUL-18-01	214.0	219.0	2	1			Chaotic brecciated veins parallel and crosscutting foliation	
AUL-18-01	224.0	225.5	3	0.5				
AUL-18-01	242.0	245.5	5	0.5			Chaotic brecciated veins parallel and crosscutting foliation	
AUL-18-01	266.4	270.0	2				Parallel foliation	
AUL-18-01	276.5	288.5	5	1			Mainly parallel to foliation. Veins 1-5 cm wide white.	Rare 1mm py stringer weak conductor over cm. Not conductive across core diameter.

Structure

BHID	Depth	Deg to CA	Comment	Comment
AUL-18-01	22.0	35	Foliation	Band/bed
AUL-18-01	26.0	60	Foliation	Band/bed
AUL-18-01	32.0	60	Foliation	Band/bed
AUL-18-01	32.5	32m-38		2nd Cleavage
AUL-18-01	46.0	80	Foliation	Band/bed
AUL-18-01	46.5	46m-50		2nd Cleavage
AUL-18-01	52.5	Fold		Small scale fold
AUL-18-01	57.0	35	Foliation	Band/bed
AUL-18-01	67.0	45	Foliation	Band/bed
AUL-18-01	73.0	40	Foliation	Band/bed
AUL-18-01	81.0	35	Foliation	Band/bed
AUL-18-01	89.0	89.5m-89.5		2nd Cleavage
AUL-18-01	97.0	30	Foliation	Band/bed
AUL-18-01	189.0	60	Foliation	Band/bed
AUL-18-01	190.0	10 189.2-198.6		2nd Cleavage
AUL-18-01	198.0	65	Foliation	Band/bed
AUL-18-01	203.0	80	Foliation	Band/bed
AUL-18-01	207.0	70	Foliation	Band/bed
AUL-18-01	217.0	50	Foliation	Band/bed
AUL-18-01	222.0	55	Foliation	Band/bed
AUL-18-01	246.0	40	Foliation	Band/bed
AUL-18-01	252.0	55	Foliation	Band/bed
AUL-18-01	263.0	50	Foliation	Band/bed
AUL-18-01	272.0	50	Foliation	Band/bed
AUL-18-01	279.0	45	Foliation	Band/bed
AUL-18-01	285.5	45	Foliation	Band/bed
AUL-18-01	294.5	Fold		Fold closure of Chert bands, fold interference pattern
AUL-18-01	297.0	40	Foliation	Band/bed

MagSuscept

BHID	Depth	MS	<i>Terraplug KT-5 Magnetic Susceptibility Meter</i>
AUL-18-01	25.0	0.16	
AUL-18-01	32.0	0.20	
AUL-18-01	37.0	4.00	
AUL-18-01	39.0	0.90	
AUL-18-01	50.0	0.90	
AUL-18-01	59.0	2.30	
AUL-18-01	60.0	4.20	
AUL-18-01	61.0	0.57	
AUL-18-01	62.0	1.65	
AUL-18-01	63.0	1.60	
AUL-18-01	64.0	2.90	
AUL-18-01	65.0	3.00	
AUL-18-01	66.0	1.90	
AUL-18-01	81.0	0.84	
AUL-18-01	90.0	0.50	
AUL-18-01	99.0	0.50	
AUL-18-01	100.0	0.80	
AUL-18-01	107.0	0.20	
AUL-18-01	113.0	0.55	
AUL-18-01	123.0	1.01	
AUL-18-01	128.0	4.30	
AUL-18-01	129.0	6.50	
AUL-18-01	130.0	4.80	
AUL-18-01	134.0	3.00	
AUL-18-01	139.0	0.10	
AUL-18-01	147.0	0.38	
AUL-18-01	156.0	0.21	
AUL-18-01	164.0	0.30	
AUL-18-01	168.0	0.23	
AUL-18-01	174.0	0.16	
AUL-18-01	186.0	1.83	
AUL-18-01	191.0	0.80	
AUL-18-01	201.0	0.10	
AUL-18-01	206.0	1.80	
AUL-18-01	210.0	2.20	
AUL-18-01	220.5	2.10	
AUL-18-01	224.0	1.00	
AUL-18-01	233.0	0.12	
AUL-18-01	243.0	0.14	
AUL-18-01	257.0	0.10	
AUL-18-01	267.0	0.20	
AUL-18-01	271.0	0.15	
AUL-18-01	273.0	0.10	
AUL-18-01	279.0	0.04	
AUL-18-01	286.0	0.08	
AUL-18-01	294.5	0.30	

MagSuscept

AUL-18-01	294.6	4.80
AUL-18-01	295.2	2.15
AUL-18-01	297.0	0.70
AUL-18-01	300.0	0.50

RQD

BHID	From	To	Recovery	RQD	Comments
AUL-18-01	0	19.5			Overburden
AUL-18-01	19.5	21.0	0.9	0.3	
AUL-18-01	21.0	24.0	2.0	1.4	
AUL-18-01	24.0	27.0	1.5	0.5	
AUL-18-01	27.0	30.0	2.2	0.8	
AUL-18-01	30.0	33.0	2.0	1.0	
AUL-18-01	33.0	36.0	2.8	0.9	
AUL-18-01	36.0	39.0	3.0	2.3	
AUL-18-01	39.0	42.0	2.8	2.6	
AUL-18-01	42.0	45.0	2.3	2.1	
AUL-18-01	45.0	48.0	3.0	2.6	
AUL-18-01	48.0	51.0	2.9	2.2	
AUL-18-01	51.0	54.0	3.0	2.7	
AUL-18-01	54.0	57.0	2.8	2.8	
AUL-18-01	57.0	60.0	2.8	2.2	
AUL-18-01	60.0	63.0	2.9	2.2	
AUL-18-01	63.0	66.0	2.8	2.6	
AUL-18-01	66.0	69.0	3.0	2.1	
AUL-18-01	69.0	72.0	3.0	1.9	
AUL-18-01	72.0	75.0	2.7	1.4	
AUL-18-01	75.0	78.0	2.7	2.0	
AUL-18-01	78.0	81.0	3.0	2.6	
AUL-18-01	81.0	84.0	2.8	2.4	
AUL-18-01	84.0	87.0	3.0	2.8	
AUL-18-01	87.0	90.0	3.0	2.6	
AUL-18-01	90.0	93.0	3.0	3.0	
AUL-18-01	93.0	96.0	2.8	2.7	
AUL-18-01	96.0	99.0	3.0	3.0	
AUL-18-01	99.0	102.0	3.0	3.0	
AUL-18-01	102.0	105.0	3.0	2.9	
AUL-18-01	105.0	108.0	3.0	3.0	
AUL-18-01	108.0	111.0	3.0	3.0	
AUL-18-01	111.0	114.0	2.9	2.6	
AUL-18-01	114.0	117.0	3.0	2.9	
AUL-18-01	117.0	120.0	3.0	2.8	
AUL-18-01	120.0	123.0	3.0	2.9	
AUL-18-01	123.0	126.0	3.0	2.9	
AUL-18-01	126.0	129.0	3.0	3.0	
AUL-18-01	129.0	132.0	3.0	3.0	
AUL-18-01	132.0	135.0	3.0	2.9	
AUL-18-01	135.0	138.0	3.0	2.9	
AUL-18-01	138.0	141.0	3.0	2.9	
AUL-18-01	141.0	144.0	3.0	3.0	
AUL-18-01	144.0	147.0	3.0	3.0	
AUL-18-01	147.0	150.0	3.0	2.9	
AUL-18-01	150.0	153.0	3.0	2.7	

RQD

AUL-18-01	153.0	156.0	3.0	3.0
AUL-18-01	156.0	159.0	3.0	3.0
AUL-18-01	159.0	162.0	3.0	2.9
AUL-18-01	162.0	165.0	3.0	2.9
AUL-18-01	165.0	168.0	3.0	2.7
AUL-18-01	168.0	171.0	3.0	2.9
AUL-18-01	171.0	174.0	3.0	3.0
AUL-18-01	174.0	177.0	3.0	2.9
AUL-18-01	177.0	180.0	3.0	2.9
AUL-18-01	180.0	183.0	3.0	2.9
AUL-18-01	183.0	186.0	3.0	2.9
AUL-18-01	186.0	189.0	3.0	2.5
AUL-18-01	189.0	192.0	3.0	2.9
AUL-18-01	192.0	195.0	3.0	2.7
AUL-18-01	195.0	198.0	3.0	2.8
AUL-18-01	198.0	201.0	3.0	2.5
AUL-18-01	201.0	204.0	2.8	2.7
AUL-18-01	204.0	207.0	2.7	2.7
AUL-18-01	207.0	210.0	2.9	2.5
AUL-18-01	210.0	213.0	3.0	2.9
AUL-18-01	213.0	216.0	2.6	1.7
AUL-18-01	216.0	219.0	2.8	1.3
AUL-18-01	219.0	222.0	3.0	1.7
AUL-18-01	222.0	225.0	3.0	2.8
AUL-18-01	225.0	228.0	3.0	2.8
AUL-18-01	228.0	231.0	3.0	2.8
AUL-18-01	231.0	234.0	3.0	2.9
AUL-18-01	234.0	237.0	3.0	2.9
AUL-18-01	237.0	240.0	2.8	2.5
AUL-18-01	240.0	243.0	3.0	2.7
AUL-18-01	243.0	246.0	3.0	2.5
AUL-18-01	246.0	249.0	2.8	2.6
AUL-18-01	249.0	252.0	3.0	2.9
AUL-18-01	252.0	255.0	3.0	2.7
AUL-18-01	255.0	258.0	3.0	2.5
AUL-18-01	258.0	261.0	3.0	2.6
AUL-18-01	261.0	264.0	2.9	2.4
AUL-18-01	264.0	267.0	2.8	1.9
AUL-18-01	267.0	270.0	2.9	2.7
AUL-18-01	270.0	273.0	2.9	1.8
AUL-18-01	273.0	276.0	2.9	2.7
AUL-18-01	276.0	279.0	3.0	2.3
AUL-18-01	279.0	282.0	3.0	2.3
AUL-18-01	282.0	285.0	3.0	2.4
AUL-18-01	285.0	288.0	3.0	2.0
AUL-18-01	288.0	291.0	3.0	2.7
AUL-18-01	291.0	294.0	3.0	2.6

RQD

AUL-18-01	294.0	297.0	2.8	1.8
AUL-18-01	297.0	300.0	2.0	0.6

Reflex

BHID	Depth	Az	Az Correct	Dip	Mag Field	Use Az	Use Dip	Comments
AUL-18-01								First Reflex test results
AUL-18-01	84.0	271.1	258.6	-45.8	18731 N	Y	Y	
AUL-18-01	135.0	152.1	139.6	-42.5	56355 Y	Y	Y	
AUL-18-01	186.0	152.4	139.9	-39.9	55760 Y	Y	Y	
AUL-18-01	237.0	152.5	140.0	-38.0	55822 Y	Y	Y	
AUL-18-01	288.0	152.8	140.3	-37.9	55924 Y	Y	Y	

Samples

BHD	Sample	From	To	Width	Stand/blank	Wgt kg	Au ppm
AUL-18-01	1701001	19.5	21.0	1.5		1701001 Drill Core	1.56 <0.005
AUL-18-01	1701002	21.0	22.5	1.5		1701002 Drill Core	3.61 <0.005
AUL-18-01	1701003	22.5	24.0	1.5		1701003 Drill Core	1.79 <0.005
AUL-18-01	1701004	24.0	25.5	1.5		1701004 Drill Core	2.61 <0.005
AUL-18-01	1701005	25.5	27.0	1.5		1701005 Drill Core	2.86 <0.005
AUL-18-01	1701006	27.0	28.5	1.5		1701006 Drill Core	2.7 <0.005
AUL-18-01	1701007	28.5	30.0	1.5		1701007 Drill Core	2.63 <0.005
AUL-18-01	1701008	30.0	31.5	1.5		1701008 Drill Core	2.94 <0.005
AUL-18-01	1701009	31.5	33.0	1.5		1701009 Drill Core	3.23 <0.005
AUL-18-01	1701010	33.0	34.5	1.5		1701010 Drill Core	2.58 <0.005
AUL-18-01	1701011	34.5	36.0	1.5		1701011 Drill Core	3.62 <0.005
AUL-18-01	1701012	36.0	37.5	1.5		1701012 Drill Core	3.16 <0.005
AUL-18-01	1701013	37.5	39.8	2.3		1701013 Drill Core	6.06 <0.005
AUL-18-01	1701014	39.8	41.2	1.4		1701014 Drill Core	3.27 <0.005
AUL-18-01	1701015	41.2	43.0	1.8		1701015 Drill Core	4.48 <0.005
AUL-18-01	1701016	43.0	44.0	1.0		1701016 Drill Core	2.36 <0.005
AUL-18-01	1701017	44.0	45.0	1.0		1701017 Drill Core	2.17 <0.005
AUL-18-01	1701018	45.0	46.5	1.5		1701018 Drill Core	3.5 <0.005
AUL-18-01	1701019	46.5	48.0	1.5		1701019 Drill Core	3.59 <0.005
AUL-18-01	1701020				217	1701020 Rock Pulp	0.08 0.327
AUL-18-01	1701021	48.0	49.5	1.5		1701021 Drill Core	3.13 <0.005
AUL-18-01	1701022	49.5	51.0	1.5		1701022 Drill Core	3.68 <0.005
AUL-18-01	1701023	51.0	52.5	1.5		1701023 Drill Core	3.64 <0.005
AUL-18-01	1701024	52.5	54.0	1.5		1701024 Drill Core	3.67 <0.005
AUL-18-01	1701025				blank	1701025 Rock	0.23 <0.005
AUL-18-01	1701026	54.0	55.5	1.5		1701026 Drill Core	3.27 <0.005
AUL-18-01	1701027	55.5	57.0	1.5		1701027 Drill Core	3.41 <0.005
AUL-18-01	1701028	57.0	58.5	1.5		1701028 Drill Core	3.21 <0.005
AUL-18-01	1701029	58.5	60.0	1.5		1701029 Drill Core	3.77 <0.005
AUL-18-01	1701030	60.0	61.5	1.5		1701030 Drill Core	3.31 <0.005
AUL-18-01	1701031	61.5	63.0	1.5		1701031 Drill Core	3.5 <0.005
AUL-18-01	1701032	63.0	64.5	1.5		1701032 Drill Core	3.45 <0.005
AUL-18-01	1701033	64.5	66.0	1.5		1701033 Drill Core	3.47 <0.005
AUL-18-01	1701034	66.0	67.5	1.5		1701034 Drill Core	3.53 <0.005
AUL-18-01	1701035				216	1701035 Rock Pulp	0.03 6.422
AUL-18-01	1701036	67.5	69.0	1.5		1701036 Drill Core	3.52 0.007
AUL-18-01	1701037	69.0	70.5	1.5		1701037 Drill Core	3.55 <0.005
AUL-18-01	1701038	70.5	72.0	1.5		1701038 Drill Core	3.26 <0.005
AUL-18-01	1701039	72.0	73.5	1.5		1701039 Drill Core	3.46 <0.005
AUL-18-01	1701040	73.5	75.0	1.5		1701040 Drill Core	2.47 <0.005
AUL-18-01	1701041	75.0	76.5	1.5		1701041 Drill Core	3.51 <0.005
AUL-18-01	1701042	76.5	78.0	1.5		1701042 Drill Core	3.13 <0.005
AUL-18-01	1701043	78.0	79.5	1.5		1701043 Drill Core	2.23 <0.005
AUL-18-01	1701044	79.5	81.0	1.5		1701044 Drill Core	3.62 <0.005
AUL-18-01	1701045				217	1701045 Rock Pulp	0.07 0.306
AUL-18-01	1701046	81.0	82.5	1.5		1701046 Drill Core	3.4 <0.005

Samples

AUL-18-01	1701047	82.5	84.0	1.5		1701047 Drill Core	3.92	<0.005
AUL-18-01	1701048	84.0	85.5	1.5		1701048 Drill Core	2.98	<0.005
AUL-18-01	1701049	85.5	87.0	1.5		1701049 Drill Core	3.68	<0.005
AUL-18-01	1701050				blank	1701050 Rock	0.16	<0.005
AUL-18-01	1701051	87.0	88.5	1.5		1701051 Drill Core	3.32	<0.005
AUL-18-01	1701052	88.5	90.0	1.5		1701052 Drill Core	3.56	<0.005
AUL-18-01	1701053	90.0	91.5	1.5		1701053 Drill Core	2.68	<0.005
AUL-18-01	1701054	91.5	93.0	1.5		1701054 Drill Core	3.18	<0.005
AUL-18-01	1701055	93.0	94.5	1.5		1701055 Drill Core	2.91	<0.005
AUL-18-01	1701056	94.5	96.0	1.5		1701056 Drill Core	2.83	<0.005
AUL-18-01	1701057	96.0	97.5	1.5		1701057 Drill Core	2.93	<0.005
AUL-18-01	1701058	97.5	99.0	1.5		1701058 Drill Core	2.68	<0.005
AUL-18-01	1701059	99.0	100.5	1.5		1701059 Drill Core	3.65	<0.005
AUL-18-01	1701060				216	1701060 Rock Pulp	0.05	6.422
AUL-18-01	1701061	100.5	102.0	1.5		1701061 Drill Core	3.48	<0.005
AUL-18-01	1701062	102.0	103.5	1.5		1701062 Drill Core	3.38	<0.005
AUL-18-01	1701063	103.5	105.0	1.5		1701063 Drill Core	3.29	<0.005
AUL-18-01	1701064	105.0	106.5	1.5		1701064 Drill Core	3.68	<0.005
AUL-18-01	1701065	106.5	108.0	1.5		1701065 Drill Core	3.83	<0.005
AUL-18-01	1701066	108.0	109.5	1.5		1701066 Drill Core	3.35	<0.005
AUL-18-01	1701067	109.5	110.0	0.5		1701067 Drill Core	1.18	<0.005
AUL-18-01	1701068	110.0	111.0	1.0		1701068 Drill Core	3.13	<0.005
AUL-18-01	1701069	111.0	112.5	1.5		1701069 Drill Core	2.45	<0.005
AUL-18-01	1701070				217	1701070 Rock Pulp	0.09	0.323
AUL-18-01	1701071	112.5	114.0	1.5		1701071 Drill Core	4.48	<0.005
AUL-18-01	1701072	114.0	115.5	1.5		1701072 Drill Core	2.92	<0.005
AUL-18-01	1701073	115.5	117.0	1.5		1701073 Drill Core	3.28	<0.005
AUL-18-01	1701074	117.0	118.5	1.5		1701074 Drill Core	2.82	<0.005
AUL-18-01	1701075				blank	1701075 Rock	0.16	<0.005
AUL-18-01	1701076	118.5	120.0	1.5		1701076 Drill Core	2.76	<0.005
AUL-18-01	1701077	120.0	121.5	1.5		1701077 Drill Core	3.47	<0.005
AUL-18-01	1701078	121.5	123.0	1.5		1701078 Drill Core	3.41	<0.005
AUL-18-01	1701079	123.0	124.5	1.5		1701079 Drill Core	3.06	<0.005
AUL-18-01	1701080	124.5	125.5	1.0		1701080 Drill Core	2.09	<0.005
AUL-18-01	1701081	125.5	126.0	0.5		1701081 Drill Core	0.91	<0.005
AUL-18-01	1701082	126.0	127.5	1.5		1701082 Drill Core	3.14	<0.005
AUL-18-01	1701083	127.5	128.0	0.5		1701083 Drill Core	0.89	<0.005
AUL-18-01	1701084	128.0	129.0	1.0		1701084 Drill Core	2.24	0.006
AUL-18-01	1701085				216	1701085 Rock Pulp	0.05	6.449
AUL-18-01	1701086	129.0	130.5	1.5		1701086 Drill Core	3.07	<0.005
AUL-18-01	1701087	130.5	132.0	1.5		1701087 Drill Core	3.02	<0.005
AUL-18-01	1701088	132.0	133.5	1.5		1701088 Drill Core	3.12	<0.005
AUL-18-01	1701089	133.5	135.0	1.5		1701089 Drill Core	3.09	<0.005
AUL-18-01	1701090	135.0	136.5	1.5		1701090 Drill Core	2.94	<0.005
AUL-18-01	1701091	136.5	138.0	1.5		1701091 Drill Core	2.98	<0.005
AUL-18-01	1701092	138.0	139.5	1.5		1701092 Drill Core	3.26	<0.005
AUL-18-01	1701093	139.5	140.0	0.5		1701093 Drill Core	1.13	<0.005

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AUL-18-01	1701094	140.0	140.5	0.5		1701094 Drill Core	0.92	<0.005
AUL-18-01	1701095				217	1701095 Rock Pulp	0.08	0.348
AUL-18-01	1701096	140.5	141.0	0.5		1701096 Drill Core	1.05	<0.005
AUL-18-01	1701097	141.0	141.5	0.5		1701097 Drill Core	1.03	<0.005
AUL-18-01	1701098	141.5	142.0	0.5		1701098 Drill Core	1.01	<0.005
AUL-18-01	1701099	142.0	143.5	1.5		1701099 Drill Core	2.94	<0.005
AUL-18-01	1701100					blank 1701100 Rock	0.18	<0.005
AUL-18-01	1701101	143.5	144.5	1.0		1701101 Drill Core	2.08	<0.005
AUL-18-01	1701102	144.5	145.5	1.0		1701102 Drill Core	2.09	<0.005
AUL-18-01	1701103	145.5	147.0	1.5		1701103 Drill Core	2.97	<0.005
AUL-18-01	1701104	147.0	148.5	1.5		1701104 Drill Core	3.05	<0.005
AUL-18-01	1701105	148.5	150.0	1.5		1701105 Drill Core	2.91	<0.005
AUL-18-01	1701106	150.0	151.5	1.5		1701106 Drill Core	3.04	<0.005
AUL-18-01	1701107	151.5	153.0	1.5		1701107 Drill Core	2.62	<0.005
AUL-18-01	1701108	153.0	153.5	0.5		1701108 Drill Core	1.06	<0.005
AUL-18-01	1701109	153.5	154.5	1.0		1701109 Drill Core	2.04	<0.005
AUL-18-01	1701110				216	1701110 Rock Pulp	0.04	6.66
AUL-18-01	1701111	154.5	156.0	1.5		1701111 Drill Core	3.57	<0.005
AUL-18-01	1701112	156.0	157.5	1.5		1701112 Drill Core	2.95	<0.005
AUL-18-01	1701113	157.5	158.0	0.5		1701113 Drill Core	0.81	<0.005
AUL-18-01	1701114	158.0	159.0	1.0		1701114 Drill Core	2.11	<0.005
AUL-18-01	1701115	159.0	160.5	1.5		1701115 Drill Core	2.93	<0.005
AUL-18-01	1701116	160.5	162.0	1.5		1701116 Drill Core	3.19	<0.005
AUL-18-01	1701117	162.0	163.5	1.5		1701117 Drill Core	2.92	<0.005
AUL-18-01	1701118	163.5	165.0	1.5		1701118 Drill Core	2.79	<0.005
AUL-18-01	1701119	165.0	166.0	1.0		1701119 Drill Core	1.76	<0.005
AUL-18-01	1701120				217	1701120 Rock Pulp	0.06	0.368
AUL-18-01	1701121	166.0	167.0	1.0		1701121 Drill Core	1.81	0.005
AUL-18-01	1701122	167.0	169.0	2.0		1701122 Drill Core	3.89	0.006
AUL-18-01	1701123	169.0	170.0	1.0		1701123 Drill Core	1.9	0.005
AUL-18-01	1701124	170.0	171.0	1.0		1701124 Drill Core	1.87	0.005
AUL-18-01	1701125					blank 1701125 Rock	0.15	<0.005
AUL-18-01	1701126	171.0	172.0	1.0		1701126 Drill Core	2.17	<0.005
AUL-18-01	1701127	172.0	172.5	0.5		1701127 Drill Core	0.94	<0.005
AUL-18-01	1701128	172.5	174.0	1.5		1701128 Drill Core	2.63	<0.005
AUL-18-01	1701129	174.0	175.5	1.5		1701129 Drill Core	3.33	<0.005
AUL-18-01	1701130	175.5	177.0	1.5		1701130 Drill Core	2.82	<0.005
AUL-18-01	1701131	177.0	178.5	1.5		1701131 Drill Core	2.67	<0.005
AUL-18-01	1701132	178.5	180.0	1.5		1701132 Drill Core	2.89	<0.005
AUL-18-01	1701133	180.0	181.5	1.5		1701133 Drill Core	2.93	<0.005
AUL-18-01	1701134	181.5	183.0	1.5		1701134 Drill Core	3.01	0.006
AUL-18-01	1701135				216	1701135 Rock Pulp	0.05	6.256
AUL-18-01	1701136	183.0	184.5	1.5		1701136 Drill Core	2.96	<0.005
AUL-18-01	1701137	184.5	186.0	1.5		1701137 Drill Core	2.82	<0.005
AUL-18-01	1701138	186.0	187.5	1.5		1701138 Drill Core	2.7	<0.005
AUL-18-01	1701139	187.5	189.0	1.5		1701139 Drill Core	2.52	<0.005
AUL-18-01	1701140	189.0	190.5	1.5		1701140 Drill Core	2.95	<0.005

Samples

AUL-18-01	1701141	190.5	192.0	1.5		1701141 Drill Core	2.76	<0.005
AUL-18-01	1701142	192.0	193.5	1.5		1701142 Drill Core	2.85	<0.005
AUL-18-01	1701143	193.5	195.0	1.5		1701143 Drill Core	3.9	<0.005
AUL-18-01	1701144	195.0	196.5	1.5		1701144 Drill Core	2.86	<0.005
AUL-18-01	1701145				217	1701145 Rock Pulp	0.06	0.364
AUL-18-01	1701146	196.5	198.0	1.5		1701146 Drill Core	2.81	<0.005
AUL-18-01	1701147	198.0	199.5	1.5		1701147 Drill Core	1.65	<0.005
AUL-18-01	1701148	199.5	201.0	1.5		1701148 Drill Core	2.95	<0.005
AUL-18-01	1701149	201.0	202.5	1.5		1701149 Drill Core	2.73	<0.005
AUL-18-01	1701150					blank 1701150 Rock	0.16	<0.005
AUL-18-01	1701151	202.5	204.0	1.5		1701151 Drill Core	4.63	<0.005
AUL-18-01	1701152	204.0	205.5	1.5		1701152 Drill Core	0.92	<0.005
AUL-18-01	1701153	205.5	207.0	1.5		1701153 Drill Core	3.57	<0.005
AUL-18-01	1701154	207.0	208.5	1.5		1701154 Drill Core	2.34	<0.005
AUL-18-01	1701155	208.5	210.0	1.5		1701155 Drill Core	3.07	<0.005
AUL-18-01	1701156	210.0	211.5	1.5		1701156 Drill Core	2.79	0.014
AUL-18-01	1701157	211.5	213.0	1.5		1701157 Drill Core	3	<0.005
AUL-18-01	1701158	213.0	214.8	1.8		1701158 Drill Core	3.51	<0.005
AUL-18-01	1701159	214.8	216.5	1.7		1701159 Drill Core	3.79	<0.005
AUL-18-01	1701160				216	1701160 Rock Pulp	0.05	6.621
AUL-18-01	1701161	216.5	218.0	1.5		1701161 Drill Core	3.05	<0.005
AUL-18-01	1701162	218.0	219.0	1.0		1701162 Drill Core	1.95	<0.005
AUL-18-01	1701163	219.0	220.5	1.5		1701163 Drill Core	3.27	<0.005
AUL-18-01	1701164	220.5	222.0	1.5		1701164 Drill Core	3.32	<0.005
AUL-18-01	1701165	222.0	223.0	1.0		1701165 Drill Core	2.1	0.045
AUL-18-01	1701166	223.0	224.0	1.0		1701166 Drill Core	2.28	<0.005
AUL-18-01	1701167	224.0	225.5	1.5		1701167 Drill Core	3.13	0.01
AUL-18-01	1701168	225.5	227.0	1.5		1701168 Drill Core	2.92	<0.005
AUL-18-01	1701169	227.0	228.5	1.5		1701169 Drill Core	3.34	<0.005
AUL-18-01	1701170				217	1701170 Rock Pulp	0.07	0.353
AUL-18-01	1701171	228.5	230.0	1.5		1701171 Drill Core	2.89	0.005
AUL-18-01	1701172	230.0	231.5	1.5		1701172 Drill Core	3.26	<0.005
AUL-18-01	1701173	231.5	233.0	1.5		1701173 Drill Core	3.01	<0.005
AUL-18-01	1701174	233.0	234.5	1.5		1701174 Drill Core	2.76	0.009
AUL-18-01	1701175					blank 1701175 Rock	0.19	<0.005
AUL-18-01	1701176	234.5	236.0	1.5		1701176 Drill Core	2.94	0.007
AUL-18-01	1701177	236.0	237.5	1.5		1701177 Drill Core	2.92	0.005
AUL-18-01	1701178	237.5	239.0	1.5		1701178 Drill Core	2.56	0.008
AUL-18-01	1701179	239.0	240.5	1.5		1701179 Drill Core	3.11	0.01
AUL-18-01	1701180	240.5	242.0	1.5		1701180 Drill Core	3.17	0.005
AUL-18-01	1701181	242.0	243.5	1.5		1701181 Drill Core	3.32	0.006
AUL-18-01	1701182	243.5	245.0	1.5		1701182 Drill Core	3.04	0.006
AUL-18-01	1701183	245.0	246.5	1.5		1701183 Drill Core	2.55	0.005
AUL-18-01	1701184	246.5	248.0	1.5		1701184 Drill Core	3.67	<0.005
AUL-18-01	1701185				216	1701185 Rock Pulp	0.06	6.343
AUL-18-01	1701186	248.0	249.5	1.5		1701186 Drill Core	3.47	0.02
AUL-18-01	1701187	249.5	251.0	1.5		1701187 Drill Core	3	<0.005

Samples

AUL-18-01	1701188	251.0	252.5	1.5		1701188 Drill Core	3.28	0.005
AUL-18-01	1701189	252.5	254.0	1.5		1701189 Drill Core	3.32	0.007
AUL-18-01	1701190	254.0	255.5	1.5		1701190 Drill Core	2.95	<0.005
AUL-18-01	1701191	255.5	257.0	1.5		1701191 Drill Core	3.05	<0.005
AUL-18-01	1701192	257.0	258.5	1.5		1701192 Drill Core	3.37	0.005
AUL-18-01	1701193	258.5	260.0	1.5		1701193 Drill Core	3.09	<0.005
AUL-18-01	1701194	260.0	261.5	1.5		1701194 Drill Core	2.89	<0.005
AUL-18-01	1701195			0.0	217	1701195 Rock Pulp	0.09	0.341
AUL-18-01	1701196	261.5	263.0	1.5		1701196 Drill Core	2.9	<0.005
AUL-18-01	1701197	263.0	264.5	1.5		1701197 Drill Core	2.9	<0.005
AUL-18-01	1701198	264.5	266.0	1.5		1701198 Drill Core	3.59	<0.005
AUL-18-01	1701199	266.0	267.5	1.5		1701199 Drill Core	2.66	<0.005
AUL-18-01	1701200					blank 1701200 Rock	0.14	<0.005
AUL-18-01	1701201	267.5	269.0	1.5		1701201 Drill Core	2.9	<0.005
AUL-18-01	1701202	269.0	270.5	1.5		1701202 Drill Core	2.99	<0.005
AUL-18-01	1701203	270.5	272.0	1.5		1701203 Drill Core	2.96	<0.005
AUL-18-01	1701204	272.0	273.5	1.5		1701204 Drill Core	3.72	0.005
AUL-18-01	1701205	273.5	275.0	1.5		1701205 Drill Core	3.26	<0.005
AUL-18-01	1701206	275.0	276.5	1.5		1701206 Drill Core	3.29	<0.005
AUL-18-01	1701207	276.5	277.5	1.0		1701207 Drill Core	2.16	<0.005
AUL-18-01	1701208	277.5	278.5	1.0		1701208 Drill Core	2.07	<0.005
AUL-18-01	1701209	278.5	279.5	1.0		1701209 Drill Core	2.21	<0.005
AUL-18-01	1701210				216	1701210 Rock Pulp	0.04	6.424
AUL-18-01	1701211	279.5	280.5	1.0		1701211 Drill Core	2.14	<0.005
AUL-18-01	1701212	280.5	281.5	1.0		1701212 Drill Core	2.17	<0.005
AUL-18-01	1701213	281.5	282.5	1.0		1701213 Drill Core	2.36	<0.005
AUL-18-01	1701214	282.5	283.5	1.0		1701214 Drill Core	2.07	<0.005
AUL-18-01	1701215	283.5	284.5	1.0		1701215 Drill Core	2.19	<0.005
AUL-18-01	1701216	284.5	285.5	1.0		1701216 Drill Core	2.35	<0.005
AUL-18-01	1701217	285.5	286.5	1.0		1701217 Drill Core	2.03	<0.005
AUL-18-01	1701218	286.5	287.5	1.0		1701218 Drill Core	1.93	<0.005
AUL-18-01	1701219	287.5	288.5	1.0		1701219 Drill Core	2.04	<0.005
AUL-18-01	1701220				217	1701220 Rock Pulp	0.1	0.359
AUL-18-01	1701221	288.5	289.5	1.0		1701221 Drill Core	2.1	<0.005
AUL-18-01	1701222	289.5	291.0	1.5		1701222 Drill Core	3.14	<0.005
AUL-18-01	1701223	291.0	292.5	1.5		1701223 Drill Core	3.37	<0.005
AUL-18-01	1701224	292.5	294.0	1.5		1701224 Drill Core	3.2	<0.005
AUL-18-01	1701225					blank 1701225 Rock	0.16	<0.005
AUL-18-01	1701226	294.0	295.5	1.5		1701226 Drill Core	3.42	<0.005
AUL-18-01	1701227	295.5	297.0	1.5		1701227 Drill Core	2.86	<0.005
AUL-18-01	1701228	297.0	298.5	1.5		1701228 Drill Core	2.32	<0.005
AUL-18-01	1701229	298.5	300.0	1.5		1701229 Drill Core	2.49	<0.005

Header

DDH ID **AUL-18-02**

	Claim #	East	North	Az	Dip	EOH (m)	<i>(Nad 83)</i>
Location	3019086	591085	5482725	160	-60	322	

Purpose Test magnetic feature with interpreted fold pattern similar to Mikwam 1.2 km east.

Start date Feb 26 2018

End date Feb 28 2018

Drill Contractor NPLH

Logged By T.Keast

Comments

Description

BHID	From	To	Litho	Comment
				Purpose of Hole: Same setup as AUL-18-01, at a steeper dip. Test large scale folded magnetic feature with similar appearance to Mikwam Zone.
AUL-18-02	0	21.0	CAS	Casing through overburden
AUL-18-02	21	251.9	ARGgry	<p>ARGILLITE Dark grey - black. Very fine grained. Thick package of fine grained sediments-argillites. Well foliated with discrete bands/beds of variable grey-black. Contacts of beds can be sharp and show rip up rare scattered clasts and flame structure. Tops direction suggested downhole. Rare scattered thin bed of slightly corser gritty material.</p> <p>Hardness is generally mod to hard can be scratched to just able to be scratched. Disseminated py <1% in cubes up to 8mm and rare scattered discontinuous po stringers 1-3mm</p> <p>Carbonate stringers variable 1-3% parralel to foliation</p> <p>78.0 - 85.0 Core angles decrease to 0 and then increase, possibly drilling through fold axis?</p> <p>There may be a weak corelation between an increase in Magsupt and the darker black argillite units. No apparent magnetite in the beds/bands.</p> <p>Scattered slightly lighter grey bands with a slight gritty apperance, up to 2m wide.</p>
AUL-18-02	251.9	280.5	ARGsil	<p>ARGILLITE SILICIFIED Dark Grey Silicified - Hard- Argillite. Very fine grained weakly banded, remnent argillite beds. Scattered brecciated intervals over 10cm with argillite frags in fine dark silicesous matrix. Unit is noticeably harder, not able to scratch.</p> <p>Fine white 1mm hairline fractures with qtz carb crosscutting foliation. 1-3% very fine py disseminated.</p> <p>Unit is hard cannot be scratched, concoidal fractures on end of core.</p> <p>Veins and foliation at low angle to core axis 10 deg.</p>

Description

Weak magSusc corelation this interval low with little variability.
Upper contact is gradational, based on gradual increase in fine silicification/hardness. Contact at a bedding/banding plane.

AUL-18-02 280.5 298 ARGgry ARGILLITE Dark grey-black very fine grained, argillite sequence. Well banded/bedded variable light and dark grey.
1-3% qtz carb veins parallel to foliation. Tr py
Upper contact is gradational general decrease in hardness, selected at a bed/band.

AUL-18-02 298 300.7 ARGgrph ARGILLITE GRAPHITIC Dark black soft, sooty to fingers. Not conductive with ohmeter. Broken blocky core
Soft easily scratched,

AUL-18-02 300.7 322 ARGgry ARGILLITE Dark grey-black very fine grained, argillite sequence. Well banded/bedded variable light and dark grey.

Hard but just able to scratch. 1 qtz carb veins parallel to foliation. Tr py
Upper contact is in broken blocky core, core pieces suggest it is abrupt.

EOH - 322.0 m Casing Left in Hole.

118 123 Dark black soft argillite, does not conduct current.

298 300.7 Dark bed of graphite rich argillite, not conductive.

Mineralization

BHID	From	To	Qtz Veins %	Py %	Po %	Arseno %	Comments	Conductors (tested with ohmeter)
AUL-18-02	31.0	33.5	3	0.5			Chaotic brecciated veins parallel and crosscutting foliation	
AUL-18-02	45.0	53.0	7	0.5			Chaotic brecciated veins parallel and crosscutting foliation. Argillite fragments in vein. Ribbony qtz veins 1 cm cross cut foliation/bedding.	
AUL-18-02	71.0	82.5	1	1	0.5		Py in cubes, po in 1mm stringers.	
AUL-18-02	107.0	118.0	1	3			Py in cubes and 1mm discontinuous stringers	
AUL-18-02	194.5	195.0	5	1			1 cm wide ribony qytz veins	
AUL-18-02	251.9	280.5	2	3			Narrow veins stockwork parallel and crosscutting foliation py very fine grained locally up to 3%.	
AUL-18-02	280.5	298.0	2	0.5			Narrow qtz carb veins parallel foiation rare grain py	
AUL-18-02	298.0	300.7	1				Graphite - Sooty on fingers	Not conductive with ohmenter
AUL-18-02	300.7	322.0	1	0.5	0.5			

Structure

BHID	Depth	Deg to CA	Comment	Comment
AUL-18-02	25.0	50	Foliation	Band/bed
AUL-18-02	28.0	30	Foliation	Band/bed
AUL-18-02	33.0	20	Foliation	Band/bed
AUL-18-02	34.0	5	Foliation	Band/bed
AUL-18-02	38.0	30	Foliation	Band/bed
AUL-18-02	43.0	15	Foliation	Band/bed
AUL-18-02	49.0	30	Foliation	Band/bed
AUL-18-02	50.5			2nd cleavage axial planar small scale folds 10 deg to CA
AUL-18-02	51.0	30	Foliation	Band/bed
AUL-18-02	52.0	70	Foliation	Band/bed
AUL-18-02	55.0	90	Foliation	Band/bed
AUL-18-02	57.0	35	Foliation	Band/bed
AUL-18-02	64.0	30	Foliation	Band/bed
AUL-18-02	68.0	30	Foliation	Band/bed
AUL-18-02	68.5	20	Fold axis	Small scall fold. Photo
AUL-18-02	70.0	35	Foliation	Band/bed
AUL-18-02	75.0	30	Foliation	Band/bed
AUL-18-02	78.0	20	Foliation	Band/bed Low core angles, drilling through fold axis ?
AUL-18-02	81.0	10	Foliation	Band/bed Low core angles, drilling through fold axis ?
AUL-18-02	82.0	0	Foliation	Band/bed Low core angles, drilling through fold axis ?
AUL-18-02	83.0	15	Foliation	Band/bed Low core angles, drilling through fold axis ?
AUL-18-02	85.0	20	Foliation	Band/bed Low core angles, drilling through fold axis ?
AUL-18-02	89.0	30	Foliation	Band/bed Low core angles, drilling through fold axis ?
AUL-18-02	96.0	25	Foliation	Band/bed Low core angles, drilling through fold axis ?
AUL-18-02	100.0	80	Foliation	Band/bed
AUL-18-02	102.0	55	Foliation	Band/bed
AUL-18-02	107.0			2nd cleavage axial planar small scale folds 0 deg to CA
AUL-18-02	110.0	35	Foliation	Band/bed
AUL-18-02	118	50	Foliation	Band/bed
AUL-18-02	125	35	Foliation	Band/bed
AUL-18-02	140	45	Foliation	Band/bed
AUL-18-02	152	45	Foliation	Band/bed
AUL-18-02	157	50	Foliation	Band/bed
AUL-18-02	162	40	Foliation	Band/bed
AUL-18-02	165.3		Foliation	Small scale folding
AUL-18-02	178	40	Foliation	Band/bed
AUL-18-02	185	45	Foliation	Band/bed
AUL-18-02	189	55	Foliation	Band/bed
AUL-18-02	194	45	Foliation	Band/bed Ribbony qtz veins 1 cm wide
AUL-18-02	199.5	30	Foliation	Band/bed
AUL-18-02	200	40	Foliation	Band/bed
AUL-18-02	203	40	Foliation	Band/bed
AUL-18-02	213	45	Foliation	Band/bed
AUL-18-02	217	20	Foliation	Band/bed
AUL-18-02	227	35	Foliation	Band/bed
AUL-18-02	235	45	Foliation	Band/bed

Structure

AUL-18-02	243	50 Foliation	Band/bed
AUL-18-02	249	45 Foliation	Band/bed
AUL-18-02	251	40 Foliation	Band/bed
AUL-18-02	251.9	40 Contact	Band/bed
AUL-18-02	257	20 Foliation	Band/bed
AUL-18-02	259	20 Foliation	Band/bed
AUL-18-02	264	15 Foliation	
AUL-18-02	267	20 Foliation	
AUL-18-02	271.5	25 Foliation	
AUL-18-02	273.5	20 Foliation	
AUL-18-02	277	30 Foliation	Band/bed
AUL-18-02	282	20 Foliation	Band/bed
AUL-18-02	288	30 Foliation	Band/bed
AUL-18-02	292	25 Foliation	Band/bed
AUL-18-02	297	20 Foliation	Band/bed
AUL-18-02	305	25 Foliation	Band/bed
AUL-18-02	312	30 Foliation	Band/bed
AUL-18-02	321	30 Foliation	Band/bed

MagSuscept

BHID	Depth	MS	<i>Terraplus KT-5 Magnetic Susceptibility Meter</i>
AUL-18-02	24.0	0.90	
AUL-18-02	30.0	0.70	
AUL-18-02	33.0	0.50	
AUL-18-02	40.0	0.50	
AUL-18-02	49.0	0.87	
AUL-18-02	51.0	0.46	
AUL-18-02	55.0	0.11	
AUL-18-02	61.0	0.86	
AUL-18-02	66.0	0.56	
AUL-18-02	69.0	0.66	
AUL-18-02	70.5	0.50	
AUL-18-02	71.0	1.00	
AUL-18-02	74.0	2.90	
AUL-18-02	79.0	0.80	
AUL-18-02	82.0	3.60	
AUL-18-02	85.0	2.30	
AUL-18-02	89.0	2.10	
AUL-18-02	93.0	2.20	
AUL-18-02	100.0	0.49	
AUL-18-02	105.0	0.47	
AUL-18-02	108.0	0.21	
AUL-18-02	117.0	1.90	
AUL-18-02	125.0	0.10	
AUL-18-02	135.0	0.05	
AUL-18-02	142.0	1.68	
AUL-18-02	152.0	0.34	
AUL-18-02	157.0	0.10	
AUL-18-02	161.0	0.08	
AUL-18-02	165.0	0.78	
AUL-18-02	168.0	1.80	
AUL-18-02	173.0	0.86	
AUL-18-02	183.0	0.04	
AUL-18-02	256.0	0.28	
AUL-18-02	258.0	0.10	
AUL-18-02	260.0	0.20	
AUL-18-02	262.0	0.20	
AUL-18-02	266.0	0.06	
AUL-18-02	268.0	0.08	
AUL-18-02	270.0	0.01	
AUL-18-02	273.0	0.15	
AUL-18-02	274.0	0.60	
AUL-18-02	276.0	0.11	
AUL-18-02	279.0	0.13	
AUL-18-02	281.5	0.03	
AUL-18-02	282.0	0.30	
AUL-18-02	285.0	0.01	

MagSuscept

AUL-18-02	288.0	0.05
AUL-18-02	292.0	0.37
AUL-18-02	295.0	0.30
AUL-18-02	297.3	0.50
AUL-18-02	298	1.5
AUL-18-02	299	1
AUL-18-02	301	0.01
AUL-18-02	307	0.99
AUL-18-02	312	0.7
AUL-18-02	314	0.1
AUL-18-02	318	0.3
AUL-18-02	322	0.15

RQD

BHID	From	To	Recovery	RQD	Comments
AUL-18-02	0	21			Overburden
AUL-18-02	21.0	24.0	2.6	0.5	
AUL-18-02	24.0	27.0	2.9	1.7	
AUL-18-02	27.0	30.0	2.8	2.5	
AUL-18-02	30.0	33.0	2.8	2.5	
AUL-18-02	33.0	36.0	3.0	2.8	
AUL-18-02	36.0	39.0	3.0	2.6	
AUL-18-02	39.0	42.0	3.0	2.8	
AUL-18-02	42.0	45.0	2.9	1.7	
AUL-18-02	45.0	48.0	3.0	2.6	
AUL-18-02	48.0	51.0	3.0	2.9	
AUL-18-02	51.0	54.0	3.0	2.9	
AUL-18-02	54.0	57.0	3.0	2.5	
AUL-18-02	57.0	60.0	2.9	2.2	
AUL-18-02	60.0	63.0	2.9	2.6	
AUL-18-02	63.0	66.0	2.8	1.8	
AUL-18-02	66.0	69.0	3.0	2.9	
AUL-18-02	69.0	72.0	3.0	2.8	
AUL-18-02	72.0	75.0	3.0	2.5	
AUL-18-02	75.0	78.0	3.0	2.4	
AUL-18-02	78.0	81.0	3.0	2.5	
AUL-18-02	81.0	84.0	3.0	2.5	
AUL-18-02	84.0	87.0	3.0	2.2	
AUL-18-02	87.0	90.0	3.0	2.3	
AUL-18-02	90.0	93.0	2.9	1.8	
AUL-18-02	93.0	96.0	3.0	2.9	
AUL-18-02	96.0	99.0	3.0	2.5	
AUL-18-02	99.0	102.0	3.0	2.2	
AUL-18-02	102.0	105.0	3.0	2.7	
AUL-18-02	105.0	108.0	2.9	2.1	
AUL-18-02	108.0	111.0	3.0	2.8	
AUL-18-02	111.0	114.0	3.0	2.9	
AUL-18-02	114.0	117.0	3.0	2.9	
AUL-18-02	117.0	120.0	3.0	3.0	
AUL-18-02	120.0	123.0	3.0	3.0	
AUL-18-02	123.0	126.0	3.0	3.0	
AUL-18-02	126.0	129.0	3.0	2.8	
AUL-18-02	129.0	132.0	3.0	3.0	
AUL-18-02	132.0	135.0	3.0	3.0	
AUL-18-02	135.0	138.0	3.0	2.9	
AUL-18-02	138.0	141.0	3.0	2.9	
AUL-18-02	141.0	144.0	3.0	2.9	
AUL-18-02	144.0	147.0	3.0	2.8	
AUL-18-02	147.0	150.0	3.0	3.0	
AUL-18-02	150.0	153.0	3.0	3.0	
AUL-18-02	153.0	156.0	3.0	2.8	

RQD

AUL-18-02	156.0	159.0	3.0	2.8
AUL-18-02	159.0	162.0	3.0	2.9
AUL-18-02	162.0	165.0	2.9	2.7
AUL-18-02	165.0	168.0	3.0	3.0
AUL-18-02	168.0	171.0	3.0	3.0
AUL-18-02	171.0	174.0	3.0	3.0
AUL-18-02	174.0	177.0	3.0	3.0
AUL-18-02	177.0	180.0	3.0	2.9
AUL-18-02	180.0	183.0	3.0	3.0
AUL-18-02	183.0	186.0	3.0	2.9
AUL-18-02	186.0	189.0	3.0	3.0
AUL-18-02	189.0	192.0	3.0	3.0
AUL-18-02	192.0	195.0	2.9	2.3
AUL-18-02	195.0	198.0	3.0	2.9
AUL-18-02	198.0	201.0	3.0	2.8
AUL-18-02	201.0	204.0	2.9	2.8
AUL-18-02	204.0	207.0	3.0	2.9
AUL-18-02	207.0	210.0	3.0	3.0
AUL-18-02	210.0	213.0	3.0	3.0
AUL-18-02	213.0	216.0	3.0	3.0
AUL-18-02	216.0	219.0	2.9	2.8
AUL-18-02	219.0	222.0	2.8	1.8
AUL-18-02	222.0	225.0	2.7	1.8
AUL-18-02	225.0	228.0	2.7	2.1
AUL-18-02	228.0	231.0	3.0	2.7
AUL-18-02	231.0	234.0	3.0	2.9
AUL-18-02	234.0	237.0	3.0	2.9
AUL-18-02	237.0	240.0	3.0	2.8
AUL-18-02	240.0	243.0	2.9	2.3
AUL-18-02	243.0	246.0	2.9	2.3
AUL-18-02	246.0	249.0	3.0	2.1
AUL-18-02	249.0	252.0	3.0	2.7
AUL-18-02	252.0	255.0	3.0	3.0
AUL-18-02	255.0	258.0	3.0	3.0
AUL-18-02	258.0	261.0	3.0	3.0
AUL-18-02	261.0	264.0	3.0	3.0
AUL-18-02	264.0	267.0	3.0	3.0
AUL-18-02	267.0	270.0	3.0	2.9
AUL-18-02	270.0	273.0	2.9	2.7
AUL-18-02	273.0	276.0	3.0	2.8
AUL-18-02	276.0	279.0	2.9	2.8
AUL-18-02	279.0	282.0	1.5	0.8
AUL-18-02	282.0	285.0	3.0	2.6
AUL-18-02	285.0	288.0	3.0	2.9
AUL-18-02	288.0	291.0	3.0	3.0
AUL-18-02	291.0	294.0	3.0	3.0
AUL-18-02	294.0	297.0	3.0	2.9

RQD

AUL-18-02	297.0	300.0	3.0	2.6
AUL-18-02	300.0	303.0	3.0	2.8
AUL-18-02	303	306	3	2.8
AUL-18-02	306	309	3	2.9
AUL-18-02	309	312	3	3
AUL-18-02	312	315	3	2.8
AUL-18-02	315	318	3	3
AUL-18-02	318	321	3	3
AUL-18-02	321	322	1	0.9

Reflex

BHID	Depth	Az	Az Correct	Dip	Mag Field	Use Az	Use Dip	Comments
AUL-18-02	33	146.4	133.9	-59.2	56242	Y	Y	
AUL-18-02	84.0	148.5	136.0	-58.0	55674	Y	Y	
AUL-18-02	135.0	148.1	135.6	-56.0	55668	Y	Y	
AUL-18-02	185.0	151.2	138.7	-54.8	55721	Y	Y	
AUL-18-02	235.0	151.4	138.9	-53.0	55947	Y	Y	
AUL-18-02	288.0	151.7	139.2	-51.9	55916	Y	Y	

Samples

BHID	Sample	From	To	Width	Stand/blank	Wgt kg	Au ppm
AUL-18-02	1701230	21.0	22.5	1.5	1701230 Drill Core	2.24	<0.005
AUL-18-02	1701231	22.5	24.0	1.5	1701231 Drill Core	2.43	<0.005
AUL-18-02	1701232	24.0	25.5	1.5	1701232 Drill Core	2.33	<0.005
AUL-18-02	1701233	25.5	27.0	1.5	1701233 Drill Core	2.89	<0.005
AUL-18-02	1701234	27.0	28.5	1.5	1701234 Drill Core	1.86	<0.005
AUL-18-02	1701235				216 1701235 Rock Pulp	0.06	6.571
AUL-18-02	1701236	28.5	30.0	1.5	1701236 Drill Core	2.07	<0.005
AUL-18-02	1701237	30.0	31.0	1.0	1701237 Drill Core	2.76	<0.005
AUL-18-02	1701238	31.0	32.0	1.0	1701238 Drill Core	1.86	<0.005
AUL-18-02	1701239	32.0	33.5	1.5	1701239 Drill Core	3.43	<0.005
AUL-18-02	1701240	33.5	35.0	1.5	1701240 Drill Core	2.95	<0.005
AUL-18-02	1701241	35.0	36.5	1.5	1701241 Drill Core	3.01	<0.005
AUL-18-02	1701242	36.5	38.0	1.5	1701242 Drill Core	3.07	<0.005
AUL-18-02	1701243	38.0	39.5	1.5	1701243 Drill Core	2.91	<0.005
AUL-18-02	1701244	39.5	41.0	1.5	1701244 Drill Core	2.68	<0.005
AUL-18-02	1701245				217 1701245 Rock Pulp	0.07	0.342
AUL-18-02	1701246	41.0	42.5	1.5	1701246 Drill Core	3.09	<0.005
AUL-18-02	1701247	42.5	44.0	1.5	1701247 Drill Core	2.99	<0.005
AUL-18-02	1701248	44.0	45.0	1.0	1701248 Drill Core	2.21	0.005
AUL-18-02	1701249	45.0	46.0	1.0	1701249 Drill Core	2.31	<0.005
AUL-18-02	1701250				blank 1701250 Rock	0.11	<0.005
AUL-18-02	1701251	46.0	47.0	1.0	1701251 Drill Core	2.09	<0.005
AUL-18-02	1701252	47.0	48.0	1.0	1701252 Drill Core	2.08	<0.005
AUL-18-02	1701253	48.0	49.0	1.0	1701253 Drill Core	2	<0.005
AUL-18-02	1701254	49.0	50.0	1.0	1701254 Drill Core	2.16	<0.005
AUL-18-02	1701255	50.0	51.0	1.0	1701255 Drill Core	2.51	<0.005
AUL-18-02	1701256	51.0	52.0	1.0	1701256 Drill Core	2.15	<0.005
AUL-18-02	1701257	52.0	53.5	1.5	1701257 Drill Core	3.05	<0.005
AUL-18-02	1701258	53.5	55.0	1.5	1701258 Drill Core	2.88	<0.005
AUL-18-02	1701259	55.0	56.5	1.5	1701259 Drill Core	3.18	<0.005
AUL-18-02	1701260				216 1701260 Rock Pulp	0.05	6.533
AUL-18-02	1701261	56.5	58.0	1.5	1701261 Drill Core	2.84	<0.005
AUL-18-02	1701262	58.0	59.5	1.5	1701262 Drill Core	2.67	<0.005
AUL-18-02	1701263	59.5	61.0	1.5	1701263 Drill Core	2.79	<0.005
AUL-18-02	1701264	61.0	62.5	1.5	1701264 Drill Core	3.64	<0.005
AUL-18-02	1701265	62.5	64.0	1.5	1701265 Drill Core	2.88	<0.005
AUL-18-02	1701266	64.0	65.5	1.5	1701266 Drill Core	2.84	<0.005
AUL-18-02	1701267	65.5	67.0	1.5	1701267 Drill Core	3.52	<0.005
AUL-18-02	1701268	67.0	68.5	1.5	1701268 Drill Core	3.26	<0.005
AUL-18-02	1701269	68.5	70.0	1.5	1701269 Drill Core	3.22	<0.005
AUL-18-02	1701270				217 1701270 Rock Pulp	0.06	0.353
AUL-18-02	1701271	70.0	71.5	1.5	1701271 Drill Core	3.27	<0.005
AUL-18-02	1701272	71.5	73.0	1.5	1701272 Drill Core	2.97	<0.005
AUL-18-02	1701273	73.0	74.5	1.5	1701273 Drill Core	2.98	0.005
AUL-18-02	1701274	74.5	76.0	1.5	1701274 Drill Core	3.07	<0.005
AUL-18-02	1701275				blank 1701275 Rock	0.15	<0.005

Samples

AUL-18-02	1701276	76.0	77.5	1.5		1701276 Drill Core	3.01	<0.005	
AUL-18-02	1701277	77.5	79.0	1.5		1701277 Drill Core	3.23	0.005	
AUL-18-02	1701278	79.0	80.5	1.5		1701278 Drill Core	3.07	0.006	
AUL-18-02	1701279	80.5	82.0	1.5		1701279 Drill Core	3.09	<0.005	
AUL-18-02	1701280	82.0	83.5	1.5		1701280 Drill Core	3.24	<0.005	
AUL-18-02	1701281	83.5	85.0	1.5		1701281 Drill Core	3.3	0.005	
AUL-18-02	1701282	85.0	86.5	1.5		1701282 Drill Core	3.3	<0.005	
AUL-18-02	1701283	86.5	88.0	1.5		1701283 Drill Core	3.72	<0.005	
AUL-18-02	1701284	88.0	89.5	1.5		1701284 Drill Core	2.81	<0.005	
AUL-18-02	1701285				216	1701285 Rock Pulp	0.05	6.186	
AUL-18-02	1701286	89.5	91.0	1.5		1701286 Drill Core	3.22	0.01	
AUL-18-02	1701287	91.0	92.5	1.5		1701287 Drill Core	3.12	<0.005	
AUL-18-02	1701288	92.5	94.0	1.5		1701288 Drill Core	3.33	<0.005	
AUL-18-02	1701289	94.0	95.5	1.5		1701289 Drill Core	3.43	<0.005	
AUL-18-02	1701290	95.5	97.0	1.5		1701290 Drill Core	3.2	<0.005	
AUL-18-02	1701291	97.0	98.5	1.5		1701291 Drill Core	3.07	<0.005	
AUL-18-02	1701292	98.5	100.0	1.5		1701292 Drill Core	3.04	<0.005	
AUL-18-02	1701293	100.0	101.5	1.5		1701293 Drill Core	3.09	<0.005	
AUL-18-02	1701294	101.5	103.0	1.5		1701294 Drill Core	3.07	<0.005	
AUL-18-02	1701295				217	1701295 Rock Pulp	0.07	0.336	
AUL-18-02	1701296	103.0	104.5	1.5		1701296 Drill Core	3.19	<0.005	
AUL-18-02	1701297	104.5	106.0	1.5		1701297 Drill Core	2.76	<0.005	
AUL-18-02	1701298	106.0	107.0	1.0		1701298 Drill Core	2.16	<0.005	
AUL-18-02	1701299	107.0	108.0	1.0		1701299 Drill Core	2.04	<0.005	
AUL-18-02	1701300					blank	1701300 Rock	0.17	<0.005
AUL-18-02	1701301	108.0	109.0	1.0		1701301 Drill Core	2.2	<0.005	
AUL-18-02	1701302	109.0	110.0	1.0		1701302 Drill Core	2.33	0.006	
AUL-18-02	1701303	110.0	111.0	1.0		1701303 Drill Core	2.39	0.006	
AUL-18-02	1701304	111.0	112.0	1.0		1701304 Drill Core	2.32	0.008	
AUL-18-02	1701305	112.0	113.0	1.0		1701305 Drill Core	2.39	<0.005	
AUL-18-02	1701306	113.0	114.0	1.0		1701306 Drill Core	2.38	<0.005	
AUL-18-02	1701307	114.0	115.0	1.0		1701307 Drill Core	2.11	<0.005	
AUL-18-02	1701308	115.0	116.0	1.0		1701308 Drill Core	2.31	<0.005	
AUL-18-02	1701309	116.0	117.0	1.0		1701309 Drill Core	2.4	0.005	
AUL-18-02	1701310				216	1701310 Rock Pulp	0.05	6.195	
AUL-18-02	1701311	117.0	118.0	1.0		1701311 Drill Core	2.18	<0.005	
AUL-18-02	1701312	118.0	119.5	1.5		1701312 Drill Core	3.21	<0.005	
AUL-18-02	1701313	119.5	121.0	1.5		1701313 Drill Core	3.49	<0.005	
AUL-18-02	1701314	121.0	122.5	1.5		1701314 Drill Core	3.24	<0.005	
AUL-18-02	1701315	122.5	123.0	1.5		1701315 Drill Core	3.57	<0.005	
AUL-18-02	1701318	123.0	124.0	1.5		1701318 Drill Core	1.87	<0.005	
AUL-18-02	1701316	124.0	125.5	1.5		1701316 Drill Core	2.94	<0.005	
AUL-18-02	1701317	125.5	127.1	1.6		1701317 Drill Core	3.74	<0.005	
AUL-18-02	1701319	128.5	130.0	1.5		1701319 Drill Core	3.57	<0.005	
AUL-18-02	1701320				217	1701320 Rock Pulp	0.07	0.319	
AUL-18-02	1701321	130.0	131.5	1.5		1701321 Drill Core	3.24	<0.005	
AUL-18-02	1701322	131.5	133.0	1.5		1701322 Drill Core	3.96	<0.005	

Samples

AUL-18-02	1701323	133.0	134.5	1.5		1701323 Drill Core	2.92	<0.005
AUL-18-02	1701324	134.5	136.0	1.5		1701324 Drill Core	3.62	<0.005
AUL-18-02	1701325				blank	1701325 Rock	0.18	<0.005
AUL-18-02	1701326	136.0	137.5	1.5		1701326 Drill Core	3.26	<0.005
AUL-18-02	1701327	137.5	139.0	1.5		1701327 Drill Core	3.08	<0.005
AUL-18-02	1701328	139.0	140.5	1.5		1701328 Drill Core	3.17	0.005
AUL-18-02	1701329	140.5	142.0	1.5		1701329 Drill Core	3.41	<0.005
AUL-18-02	1701330	142.0	143.5	1.5		1701330 Drill Core	3.16	<0.005
AUL-18-02	1701331	143.5	145.0	1.5		1701331 Drill Core	2.12	<0.005
AUL-18-02	1701332	145.0	146.5	1.5		1701332 Drill Core	4.21	<0.005
AUL-18-02	1701333	146.5	148.0	1.5		1701333 Drill Core	3.11	<0.005
AUL-18-02	1701334	148.0	149.5	1.5		1701334 Drill Core	3.16	0.019
AUL-18-02	1701335					216 1701335 Rock Pulp	0.05	6.257
AUL-18-02	1701336	149.5	151.0	1.5		1701336 Drill Core	2.83	<0.005
AUL-18-02	1701337	151.0	152.5	1.5		1701337 Drill Core	3.15	<0.005
AUL-18-02	1701338	152.5	154.0	1.5		1701338 Drill Core	3.26	<0.005
AUL-18-02	1701339	154.0	155.5	1.5		1701339 Drill Core	3.52	<0.005
AUL-18-02	1701340	155.5	157.0	1.5		1701340 Drill Core	2.71	<0.005
AUL-18-02	1701341	157.0	158.5	1.5		1701341 Drill Core	3	<0.005
AUL-18-02	1701342	158.5	160.0	1.5		1701342 Drill Core	3.33	<0.005
AUL-18-02	1701343	160.0	161.5	1.5		1701343 Drill Core	3.23	<0.005
AUL-18-02	1701344	161.5	163.0	1.5		1701344 Drill Core	3.24	<0.005
AUL-18-02	1701345					217 1701345 Rock Pulp	0.07	0.31
AUL-18-02	1701346	163.0	164.5	1.5		1701346 Drill Core	4.15	<0.005
AUL-18-02	1701347	164.5	166.0	1.5		1701347 Drill Core	2.98	<0.005
AUL-18-02	1701348	166.0	167.5	1.5		1701348 Drill Core	3.29	<0.005
AUL-18-02	1701349	167.5	169.0	1.5		1701349 Drill Core	3.06	<0.005
AUL-18-02	1701350				blank	1701350 Rock	0.22	<0.005
AUL-18-02	1701351	169.0	170.5	1.5		1701351 Drill Core	3.6	<0.005
AUL-18-02	1701352	170.5	172.0	1.5		1701352 Drill Core	3.29	<0.005
AUL-18-02	1701353	172.0	173.5	1.5		1701353 Drill Core	3.38	<0.005
AUL-18-02	1701354	173.5	175.0	1.5		1701354 Drill Core	3.46	<0.005
AUL-18-02	1701355	175.0	176.5	1.5		1701355 Drill Core	3.52	<0.005
AUL-18-02	1701356	176.5	178.0	1.5		1701356 Drill Core	3.3	<0.005
AUL-18-02	1701357	178.0	179.5	1.5		1701357 Drill Core	3.24	<0.005
AUL-18-02	1701358	179.5	181.0	1.5		1701358 Drill Core	3.26	<0.005
AUL-18-02	1701359	181.0	182.5	1.5		1701359 Drill Core	3.37	<0.005
AUL-18-02	1701360					216 1701360 Rock Pulp	0.04	6.332
AUL-18-02	1701361	182.5	184.0	1.5		1701361 Drill Core	3.51	<0.005
AUL-18-02	1701362	184.0	185.5	1.5		1701362 Drill Core	3.28	<0.005
AUL-18-02	1701363	185.5	187.0	1.5		1701363 Drill Core	3.11	<0.005
AUL-18-02	1701364	187.0	188.5	1.5		1701364 Drill Core	3.19	<0.005
AUL-18-02	1701365	188.5	190.0	1.5		1701365 Drill Core	3.31	<0.005
AUL-18-02	1701366	190.0	191.5	1.5		1701366 Drill Core	3.24	<0.005
AUL-18-02	1701367	191.5	193.0	1.5		1701367 Drill Core	2.99	<0.005
AUL-18-02	1701368	193.0	194.5	1.5		1701368 Drill Core	3.04	<0.005
AUL-18-02	1701369	194.5	196.0	1.5		1701369 Drill Core	3.22	<0.005

Samples

AUL-18-02	1701370				217	1701370 Rock Pulp	0.06	0.296
AUL-18-02	1701371	196.0	197.5	1.5		1701371 Drill Core	3.14	<0.005
AUL-18-02	1701372	197.5	199.0	1.5		1701372 Drill Core	3.65	<0.005
AUL-18-02	1701373	199.0	200.5	1.5		1701373 Drill Core	2.8	<0.005
AUL-18-02	1701374	200.5	202.0	1.5		1701374 Rock	0.18	<0.005
AUL-18-02	1701375			blank		1701375 Drill Core	3.19	<0.005
AUL-18-02	1701376	202.0	203.5	1.5		1701376 Drill Core	3.25	<0.005
AUL-18-02	1701377	203.5	205.0	1.5		1701377 Drill Core	3.08	<0.005
AUL-18-02	1701378	205.0	206.5	1.5		1701378 Drill Core	2.99	<0.005
AUL-18-02	1701379	206.5	208.0	1.5		1701379 Drill Core	3.18	<0.005
AUL-18-02	1701380	208.0	209.5	1.5		1701380 Drill Core	2.88	<0.005
AUL-18-02	1701381	209.5	211.0	1.5		1701381 Drill Core	1.5	<0.005
AUL-18-02	1701382	211.0	212.5	1.5		1701382 Drill Core	5.7	<0.005
AUL-18-02	1701383	212.5	214.0	1.5		1701383 Drill Core	3.43	0.006
AUL-18-02	1701384	214.0	215.5	1.5		1701384 Drill Core	3.21	<0.005
AUL-18-02	1701385				216	1701385 Rock Pulp	0.05	6.387
AUL-18-02	1701386	215.5	217.0	1.5		1701386 Drill Core	3.31	<0.005
AUL-18-02	1701387	217.0	218.5	1.5		1701387 Drill Core	2.75	<0.005
AUL-18-02	1701388	218.5	220.0	1.5		1701388 Drill Core	3.17	<0.005
AUL-18-02	1701389	220.0	221.5	1.5		1701389 Drill Core	3.74	<0.005
AUL-18-02	1701390	221.5	223.0	1.5		1701390 Drill Core	2.31	0.005
AUL-18-02	1701391	223.0	224.5	1.5		1701391 Drill Core	2.61	<0.005
AUL-18-02	1701392	224.5	226.0	1.5		1701392 Drill Core	2.83	0.005
AUL-18-02	1701393	226.0	227.5	1.5		1701393 Drill Core	3.13	<0.005
AUL-18-02	1701394	227.5	229.0	1.5		1701394 Drill Core	3.99	<0.005
AUL-18-02	1701395				217	1701395 Rock Pulp	0.06	0.336
AUL-18-02	1701396	229.0	230.5	1.5		1701396 Drill Core	2.83	<0.005
AUL-18-02	1701397	230.5	232.0	1.5		1701397 Drill Core	3.12	<0.005
AUL-18-02	1701398	232.0	233.5	1.5		1701398 Drill Core	2.88	<0.005
AUL-18-02	1701399	233.5	235.0			1701399 Drill Core	2.96	<0.005
AUL-18-02	1701400			blank		1701400 Rock	0.18	<0.005
AUL-18-02	1701401	235.0	236.5	1.5		1701401 Drill Core	3.11	<0.005
AUL-18-02	1701402	236.5	238.0	1.5		1701402 Drill Core	2.84	<0.005
AUL-18-02	1701403	238.0	239.5	1.5		1701403 Drill Core	3.22	<0.005
AUL-18-02	1701404	239.5	241.0			1701404 Drill Core	2.89	<0.005
AUL-18-02	1701405	241.0	242.5	1.5		1701405 Drill Core	2.88	<0.005
AUL-18-02	1701406	242.5	244.0	1.5		1701406 Drill Core	2.89	<0.005
AUL-18-02	1701407	244.0	245.5	1.5		1701407 Drill Core	2.25	<0.005
AUL-18-02	1701408	245.5	247.0	1.5		1701408 Drill Core	3.35	<0.005
AUL-18-02	1701409	247.0	248.5	1.5		1701409 Drill Core	3.61	<0.005
AUL-18-02	1701410				216	1701410 Rock Pulp	0.04	6.405
AUL-18-02	1701411	248.5	250.0	1.5		1701411 Drill Core	3.08	<0.005
AUL-18-02	1701412	250.0	251.5	1.5		1701412 Drill Core	2.86	<0.005
AUL-18-02	1701413	251.5	253.0	1.5		1701413 Drill Core	3.03	<0.005
AUL-18-02	1701414	253.0	254.5	1.5		1701414 Drill Core	2.71	<0.005
AUL-18-02	1701415	254.5	256.0	1.5		1701415 Drill Core	2.98	<0.005
AUL-18-02	1701416	256.0	257.5	1.5		1701416 Drill Core	2.86	<0.005

Samples

AUL-18-02	1701417	257.5	259.1	1.6		1701417 Drill Core	3.4	<0.005
AUL-18-02	1701418	259.1	260.0	0.9		1701418 Drill Core	1.84	<0.005
AUL-18-02	1701419	260.0	261.0	1.0		1701419 Drill Core	4.01	<0.005
AUL-18-02	1701420				217	1701420 Rock Pulp	0.05	0.325
AUL-18-02	1701421	261.0	262.0	1.0		1701421 Drill Core	1.98	<0.005
AUL-18-02	1701422	262.0	263.0	1.0		1701422 Drill Core	2.42	<0.005
AUL-18-02	1701423	263.0	264.0	1.0		1701423 Drill Core	2.03	<0.005
AUL-18-02	1701424	264.0	265.0	1.0		1701424 Drill Core	1.96	<0.005
AUL-18-02	1701425					1701425 Rock	0.17	<0.005
AUL-18-02	1701426	0.0	267.0	267.0		1701426 Drill Core	2.31	<0.005
AUL-18-02	1701427	267.0	268.0	1.0		1701427 Drill Core	2.03	<0.005
AUL-18-02	1701428	268.0	269.0	1.0		1701428 Drill Core	1.97	<0.005
AUL-18-02	1701429	269.0	270.0			1701429 Drill Core	2.14	0.005
AUL-18-02	1701430	270.0	271.0	1.0		1701430 Drill Core	2.13	0.006
AUL-18-02	1701431	271.0	272.0	1.0		1701431 Drill Core	2.24	<0.005
AUL-18-02	1701432	272.0	273.0	1.0		1701432 Drill Core	2.27	<0.005
AUL-18-02	1701433	273.0	274.0	1.0		1701433 Drill Core	2.28	<0.005
AUL-18-02	1701434	274.0	275.0	1.0		1701434 Drill Core	1.97	<0.005
AUL-18-02	1701435			216.0		1701435 Rock Pulp	0.04	6.217
AUL-18-02	1701436	275.0	276.0	1.0		1701436 Drill Core	1.61	<0.005
AUL-18-02	1701437	276.0	277.0	1.0		1701437 Drill Core	2.37	<0.005
AUL-18-02	1701438	277.0	278.0	1.0		1701438 Drill Core	1.45	<0.005
AUL-18-02	1701439	278.0	279.0	1.0		1701439 Drill Core	1.88	<0.005
AUL-18-02	1701440	279.0	280.5	1.5		1701440 Drill Core	4.12	<0.005
AUL-18-02	1701441	280.5	282.0	1.5		1701441 Drill Core	3.28	<0.005
AUL-18-02	1701442	282.0	283.5	1.5		1701442 Drill Core	2.85	<0.005
AUL-18-02	1701443	283.5	285.0	1.5		1701443 Drill Core	3.37	<0.005
AUL-18-02	1701444	285.0	286.5	1.5		1701444 Drill Core	2.99	<0.005
AUL-18-02	1701445				217	1701445 Rock Pulp	0.06	0.329
AUL-18-02	1701446	286.5	288.0	1.5		1701446 Drill Core	3.34	<0.005
AUL-18-02	1701447	288.0	289.5	1.5		1701447 Drill Core	3.31	<0.005
AUL-18-02	1701448	289.5	291.0	1.5		1701448 Drill Core	3.79	<0.005
AUL-18-02	1701449	291.0	292.5	1.5		1701449 Drill Core	3.6	<0.005
AUL-18-02	1701450					1701450 Rock	0.17	<0.005
AUL-18-02	1701451	292.5	294.0	1.5		1701451 Drill Core	3.24	<0.005
AUL-18-02	1701452	294.0	295.5	1.5		1701452 Drill Core	3.23	<0.005
AUL-18-02	1701453	295.5	297.0	1.5		1701453 Drill Core	3.26	<0.005
AUL-18-02	1701454	297.0	298.0	1.0		1701454 Drill Core	2.04	<0.005
AUL-18-02	1701455	298.0	299.5	1.5		1701455 Drill Core	3.1	0.006
AUL-18-02	1701456	299.5	300.7	1.2		1701456 Drill Core	3.04	0.006
AUL-18-02	1701457	300.7	302.0	1.3		1701457 Drill Core	2.96	<0.005
AUL-18-02	1701458	302.0	303.5	1.5		1701458 Drill Core	3.53	<0.005
AUL-18-02	1701459	303.5	305	1.5		1701459 Drill Core	3.29	<0.005
AUL-18-02	1701460				216	1701460 Rock Pulp	0.04	6.448
AUL-18-02	1701461	305	306.5	1.5		1701461 Drill Core	3.49	<0.005
AUL-18-02	1701462	306.5	308	1.5		1701462 Drill Core	3.17	<0.005
AUL-18-02	1701463	308	309.5	1.5		1701463 Drill Core	3.34	<0.005

Samples

AUL-18-02	1701464	309.5	311	1.5	1701464 Drill Core	3.11	<0.005
AUL-18-02	1701465	311	312.5	1.5	1701465 Drill Core	3.46	<0.005
AUL-18-02	1701466	312.5	314	1.5	1701466 Drill Core	3.53	<0.005
AUL-18-02	1701467	314	315.5	1.5	1701467 Drill Core	3.21	<0.005
AUL-18-02	1701468	315.5	317	1.5	1701468 Drill Core	3.45	<0.005
AUL-18-02	1701469	317	318.5	1.5	1701469 Drill Core	3.15	<0.005
AUL-18-02	1701470				217 1701470 Rock Pulp	0.06	0.323
AUL-18-02	1701471	318.5	320	1.5	1701471 Drill Core	3.26	0.006
AUL-18-02	1701472	320	321	1	1701472 Drill Core	2.14	0.017
AUL-18-02	1701473	321	322	1	1701473 Drill Core	2.48	<0.005

Header

DDH ID **AUL-18-03**

	Claim #	East	North	Az	Dip	EOH (m) (Nad 83)
Location	3019086	591200	5482655	180	-50	252

Purpose Test magnetic feature with interpreted fold pattern similar to Mikwam 1.2 km east.

Start date Mar 1 2018

End date Mar 3 2018

Drill Contractor NPLH

Logged By T.Keast

Comments

Description

BHID	From	To	Litho	Comment
AUL-18-03	0	27	CAS	Casing through overburden
AUL-18-03	27	36.0	ARGblk	<p>ARGILLITE - Dark black weakly graphitic - soft sooty on fingers. Very fine grained. No carb stringers, weak to moderate foliation. Generally all black with scattered bedding/banding. Soft easily scratched.</p>
AUL-18-03	36	50	ARGgry	<p>ARGILLITE - Dark grey with alternating lighter and darker beds/ bands. Very fine grained mod foliated. Unit contains locally up to 5-10% qtz carbonate stringers parallel to foliation. Foliation shows small scale folding. Unit is hard but can just be scratched. Veins and foliation at low angle to core axis 0- 10 deg photo.</p> <p>Upper contact is gradational, based on gradual increase in appearance of distinct alternating bands.</p>
AUL-18-03	50.0	71.0	WACKE	<p>Greywacke - Grey to green massive unit with fine granular texture, slightly coarser than the argillite.</p> <p>Bedding banding is much rarer, scattered. Bands/beds seem to be more diffuse and wider, no fine laminations as in argillite. Unit foliated</p> <p>Upper contact is gradational over 2 m.</p>
AUL-18-03	71	107	ARGgry	<p>ARGILLITE - Black to grey well bedded/banded with mm laminations to 10 cm wide bands/beds. 1% carb stringers along foliation, mod foliated. Soft to hard but all beds can be scratched. Tr-1% po in cubes</p> <p>Upper contact is gradational. Local narrow intervals of 1 m with slightly coarser wacke type material.</p>
AUL-18-03	107	120	ARGsil	<p>ARGILLITE SILICIFIED - Light grey buff argillite with bands/beds but increasing hardness due to qtz veins and pervasive silification. 109.0-109.4 Qtz vein with tr py. Unit is hard beds cannot be scratched.</p>

Description

Veins decreasing to absent down unit.

Upper contact gradational, based on increase in hardness.

AUL-18-03 120 212 ARGgry ARGILLITE - Grey well bedded/banded with mm laminations to 10 cm wide bands/beds.
1% carb stringers along foliation, mod foliated. Soft to hard but all beds can be scratched.

Local intervals slightly creamy color siliceous but not throughout unit.
Local sections of darker blkd beds 138.5 - 141.0 , 148.0 - 152.0 Non conductive with ohmeter

Local section of slightly coarser wacke type material

Upper contact is gradational with decreasing hardness.

AUL-18-03 212 219.9 ShrARG ARGILLITE / Sheared - Transitional interval into lower conglomerate. Unit is strongly foliated.
Bedding banding is destroyed strong foliation, clasts not easily identified. Light color sericite bands and stringers
Qtz veins and silicious sections 3-5%. Tr. Can be scratched

Relatively abrupt upper contact over several cm.

AUL-18-03 219.9 252 CONG CONGLOMERATE - Sheared Conglomerate Unit described from drill logs from previous drill programs.
Light buff color, strongly foliated, clasts of light coloured rocks flattened out along foliation, clasts up to 10cm?
Clasts very flattened ragged edges. Light carbonate turning orange ankerite.
Matrix around clasts fine to granular texture.

Unit shows no bedding/banding on fine scale or large scale intense strain in unit.
Light color due to sericite carbonate content content. Scattered siliceous areas and qtz stringers.

Upper contact gradational, identified by recognition of clasts.

Unit is soft readily scratched

Creamy white siliceous carb bands folded , carb ankerite as going orange very quickly

Description

EOH - Casing Left in Hole.

Mineralization

BHID	From	To	Qtz Veins %	Py %	Po %	Arseno %	Comments	Conductors (tested with ohmeter)
AUL-18-03	0.0	27.0					Casing	
AUL-18-03	27.0	36.0		0.5			Weak graphite Small scale folding in core low care angles	Not conductive with ohmeter
AUL-18-03	36.0	50.0	5	1				
AUL-18-03	50.0	71.0		0.5				
AUL-18-03	71.0	107.0						
AUL-18-03	107.0	120.0	2	0.5			Hard silicified	
AUL-18-03	120.0	212.0	0.5	0.5			Fine dissem and scattered cubes	Local darker bands/beds slightly sooty non conductive
AUL-18-03	212.0	218.0						
AUL-18-03	218.0	219.9	10	1			Grey qtz veins parallel to foliation tr py	
AUL-18-03	219.9	227.5	3	1			Strong foliation	
AUL-18-03	227.5	228.5	5	2	3		Clots of po and py	
AUL-18-03	228.5	252	1	1				

Structure

BHID	Depth	Deg to CA	Comment	Comment
AUL-18-03	32.0	55	Foliation	
AUL-18-03	35.0	50	Foliation	
AUL-18-03	39.0	5	Foliation	Low angle small scale folding
AUL-18-03	43.0	5	Foliation	Low angle small scale folding
AUL-18-03	47.0	10	Foliation	Low angle small scale folding
AUL-18-03	51.0	30	Foliation	Band/bed
AUL-18-03	58.0	35	Foliation	Band/bed
AUL-18-03	60.0	35	Foliation	Band/bed
AUL-18-03	75.0	45	Foliation	Band/bed
AUL-18-03	85.0	60	Foliation	Band/bed
AUL-18-03	93.0	70	Foliation	`
AUL-18-03	106.0	35	Foliation	Band/bed
AUL-18-03	116.0	40	Foliation	Band/bed
AUL-18-03	121.0	40	Foliation	Band/bed
AUL-18-03	135.0	65	Foliation	
AUL-18-03	142.0	65	Foliation	Band/bed
AUL-18-03	149.0	55	Foliation	Band/bed
AUL-18-03	158.0	50	Foliation	Band/bed
AUL-18-03	158.2		Fold	Small scale folding photo
AUL-18-03	174.0	45	Foliation	Band/bed
AUL-18-03	193.0	45	Foliation	Band/bed
AUL-18-03	195.0	40	Foliation	
AUL-18-03	201.0	45	Foliation	
AUL-18-03	216.0	35	Foliation	
AUL-18-03	221.0	30	Foliation	
AUL-18-03	234.0	35	Foliation	
AUL-18-03	252.0	40	Foliation	

MagSuscept

BHID	Depth	MS	<i>Terraplus KT-5 Magnetic Susceptibility Meter</i>
AUL-18-03	29.0	0.01	
AUL-18-03	34.0	0.37	
AUL-18-03	36.0	2.20	
AUL-18-03	41.0	0.92	
AUL-18-03	43.0	0.54	
AUL-18-03	47.0	0.01	
AUL-18-03	53.0	0.08	
AUL-18-03	57.0	0.10	
AUL-18-03	60.0	0.26	
AUL-18-03	66.0	0.05	
AUL-18-03	70.0	0.15	
AUL-18-03	73.0	0.85	
AUL-18-03	77.0	0.23	
AUL-18-03	78.0	1.40	
AUL-18-03	81.0	1.70	
AUL-18-03	83.0	0.16	
AUL-18-03	88.0	0.10	
AUL-18-03	93.0	0.14	
AUL-18-03	95.0	0.07	
AUL-18-03	105.0	0.08	
AUL-18-03	110.0	0.20	
AUL-18-03	111.0	0.01	
AUL-18-03	117.0	0.50	
AUL-18-03	123.0	0.13	
AUL-18-03	135.0	0.22	
AUL-18-03	140.0	1.60	
AUL-18-03	141.0	0.27	
AUL-18-03	147.0	0.60	
AUL-18-03	149.0	3.60	
AUL-18-03	150.5	0.40	
AUL-18-03	155.0	1.40	
AUL-18-03	156.0	0.90	
AUL-18-03	159.0	0.80	
AUL-18-03	162.0	2.50	
AUL-18-03	166.0	0.40	
AUL-18-03	171.0	1.56	
AUL-18-03	176.0	0.60	
AUL-18-03	181.0	1.40	
AUL-18-03	186.0	0.70	
AUL-18-03	192.0	0.12	
AUL-18-03	195.0	0.30	
AUL-18-03	198.0	1.20	
AUL-18-03	206.0	0.26	
AUL-18-03	213.0	0.62	
AUL-18-03	219.0	0.36	
AUL-18-03	225.0	0.38	

MagSuscept

AUL-18-03	231.0	0.21
AUL-18-03	237.0	0.08
AUL-18-03	245.0	0.17
AUL-18-03	251.0	0.24
AUL-18-03	252	0.17

RQD

BHID	From	To	Recovery	RQD	Comments
AUL-18-03	0	27			Overburden
AUL-18-03	27.0	30.0	2.2	0.5	
AUL-18-03	30.0	33.0	2.9	1.2	
AUL-18-03	33.0	36.0	3.0	2.3	
AUL-18-03	36.0	39.0	3.0	2.9	
AUL-18-03	39.0	42.0	3.0	2.8	
AUL-18-03	42.0	45.0	3.0	2.7	
AUL-18-03	45.0	48.0	3.0	2.8	
AUL-18-03	48.0	51.0	3.0	3.0	
AUL-18-03	51.0	54.0	3.0	2.2	
AUL-18-03	54.0	57.0	3.0	2.6	
AUL-18-03	57.0	60.0	3.0	2.7	
AUL-18-03	60.0	63.0	3.0	2.7	
AUL-18-03	63.0	66.0	3.0	1.8	
AUL-18-03	66.0	69.0	3.0	2.0	
AUL-18-03	69.0	72.0	3.0	2.3	
AUL-18-03	72.0	75.0	3.0	2.1	
AUL-18-03	75.0	78.0	3.0	1.9	
AUL-18-03	78.0	81.0	3.0	2.4	
AUL-18-03	81.0	84.0	3.0	2.7	
AUL-18-03	84.0	87.0	3.0	1.9	
AUL-18-03	87.0	90.0	3.0	1.3	
AUL-18-03	90.0	93.0	3.0	2.2	
AUL-18-03	93.0	96.0	3.0	2.3	
AUL-18-03	96.0	99.0	3.0	2.8	
AUL-18-03	99.0	102.0	3.0	2.7	
AUL-18-03	102.0	105.0	3.0	2.7	
AUL-18-03	105.0	108.0	3.0	2.7	
AUL-18-03	108.0	111.0	3.0	2.4	
AUL-18-03	111.0	114.0	3.0	2.8	
AUL-18-03	114.0	117.0	3.0	2.9	
AUL-18-03	117.0	120.0	3.0	2.9	
AUL-18-03	120.0	123.0	2.8	1.9	
AUL-18-03	123.0	126.0	2.9	2.1	
AUL-18-03	126.0	129.0	3.0	2.5	
AUL-18-03	129.0	132.0	3.0	2.7	
AUL-18-03	132.0	135.0	3.0	1.9	
AUL-18-03	135.0	138.0	2.8	1.5	
AUL-18-03	138.0	141.0	3.0	2.1	
AUL-18-03	141.0	144.0	3.0	2.5	
AUL-18-03	144.0	147.0	3.0	2.7	
AUL-18-03	147.0	150.0	2.8	1.5	
AUL-18-03	150.0	153.0	2.8	1.3	
AUL-18-03	153.0	156.0	3.0	2.4	
AUL-18-03	156.0	159.0	2.9	1.7	
AUL-18-03	159.0	162.0	3.0	1.9	

RQD

AUL-18-03	162.0	165.0	2.9	1.4
AUL-18-03	165.0	168.0	3.0	1.7
AUL-18-03	168.0	171.0	3.0	2.2
AUL-18-03	171.0	174.0	3.0	2.3
AUL-18-03	174.0	177.0	2.8	2.0
AUL-18-03	177.0	180.0	3.0	1.4
AUL-18-03	180.0	183.0	2.6	1.3
AUL-18-03	183.0	186.0	3.0	2.3
AUL-18-03	186.0	189.0	3.0	2.2
AUL-18-03	189.0	192.0	3.0	2.2
AUL-18-03	192.0	195.0	3.0	2.7
AUL-18-03	195.0	198.0	3.0	2.9
AUL-18-03	198.0	201.0	3.0	2.2
AUL-18-03	201.0	204.0	3.0	2.2
AUL-18-03	204.0	207.0	3.0	2.3
AUL-18-03	207.0	210.0	3.0	1.8
AUL-18-03	210.0	213.0	2.7	2.1
AUL-18-03	213.0	216.0	2.8	1.3
AUL-18-03	216.0	219.0	2.9	2.2
AUL-18-03	219.0	222.0	3.0	2.7
AUL-18-03	222.0	225.0	3.0	2.5
AUL-18-03	225.0	228.0	3.0	2.8
AUL-18-03	228.0	231.0	2.9	2.0
AUL-18-03	231.0	234.0	3.0	2.8
AUL-18-03	234.0	237.0	3.0	2.4
AUL-18-03	237.0	240.0	3.0	1.0
AUL-18-03	240.0	243.0	2.9	1.2
AUL-18-03	243.0	246.0	3.0	1.6
AUL-18-03	246.0	249.0	3.0	2.2
AUL-18-03	249.0	252.0	3.0	2.6

Reflex

BHID	Depth	Az	Az Correct	Dip	Mag Field	Use Az	Use Dip	Comments
AUL-18-03	42.0	193.0	180.5	-46.5	55446.0	Y	Y	
AUL-18-03	102.0	195.0	182.5	-44.0	55536.0	Y	Y	
AUL-18-03	153.0	197.2	184.7	-43.5	55864.0	Y	Y	
AUL-18-03	204.0	194.6	182.1	-38.0	56391.0	Y	Y	
AUL-18-03	252.0	194.0	181.5	-36.2	55646.0	Y	Y	

Samples

BHD	Sample	From	To	Width	Stand/blank		Wgt kg	Au ppm
AUL-18-03	1701474	27.0	28.5	1.5		1701474 Drill Core	1.59	0.005
AUL-18-03	1701475				blank	1701475 Rock	0.16	<0.005
AUL-18-03	1701476	28.5	30.0	1.5		1701476 Drill Core	2.58	0.005
AUL-18-03	1701477	30.0	31.5	1.5		1701477 Drill Core	2.29	0.008
AUL-18-03	1701478	31.5	33.0	1.5		1701478 Drill Core	3.49	0.006
AUL-18-03	1701479	33.0	34.5	1.5		1701479 Drill Core	2.83	<0.005
AUL-18-03	1701480	34.5	36.0	1.5		1701480 Drill Core	3.38	<0.005
AUL-18-03	1701481	36.0	37.5	1.5		1701481 Drill Core	2.98	<0.005
AUL-18-03	1701482	37.5	39.0	1.5		1701482 Drill Core	3.54	0.005
AUL-18-03	1701483	39.0	40.5	1.5		1701483 Drill Core	2.97	<0.005
AUL-18-03	1701484	40.5	42.0	1.5		1701484 Drill Core	3.98	0.006
AUL-18-03	1701485				216	1701485 Rock Pulp	0.06	6.531
AUL-18-03	1701486	42.0	43.5	1.5		1701486 Drill Core	2.53	0.013
AUL-18-03	1701487	43.5	45.0	1.5		1701487 Drill Core	4.32	0.006
AUL-18-03	1701488	45.0	46.5	1.5		1701488 Drill Core	3.34	<0.005
AUL-18-03	1701489	46.5	48.0	1.5		1701489 Drill Core	3.34	<0.005
AUL-18-03	1701490	48.0	49.0	1.0		1701490 Drill Core	2.36	<0.005
AUL-18-03	1701491	49.0	50.0	1.0		1701491 Drill Core	2.33	<0.005
AUL-18-03	1701492	50.0	51.5	1.5		1701492 Drill Core	1.04	<0.005
AUL-18-03	1701493	51.5	53.0	1.5		1701493 Drill Core	5.73	<0.005
AUL-18-03	1701494	53.0	54.5	1.5		1701494 Drill Core	3.01	<0.005
AUL-18-03	1701495				217	1701495 Rock Pulp	0.05	0.324
AUL-18-03	1701496	54.5	56.0	1.5		1701496 Drill Core	3.1	<0.005
AUL-18-03	1701497	56.0	57.5	1.5		1701497 Drill Core	3.44	<0.005
AUL-18-03	1701498	57.5	59.0	1.5		1701498 Drill Core	2.69	<0.005
AUL-18-03	1701499	59.0	60.5	1.5		1701499 Drill Core	3.61	<0.005
AUL-18-03	1701500				blank	1701500 Rock	0.15	<0.005
AUL-18-03	1701501	60.5	62.0	1.5		1701501 Drill Core	3.62	<0.005
AUL-18-03	1701502	62.0	63.5	1.5		1701502 Drill Core	3.03	<0.005
AUL-18-03	1701503	63.5	65.0	1.5		1701503 Drill Core	3.42	0.008
AUL-18-03	1701504	65.0	66.5	1.5		1701504 Drill Core	3.24	<0.005
AUL-18-03	1701505	66.5	68.0	1.5		1701505 Drill Core	3.19	<0.005
AUL-18-03	1701506	68.0	69.5	1.5		1701506 Drill Core	2.89	<0.005
AUL-18-03	1701507	69.5	71.0	1.5		1701507 Drill Core	2.79	<0.005
AUL-18-03	1701508	71.0	72.5	1.5		1701508 Drill Core	3.11	<0.005
AUL-18-03	1701509	72.5	74.0	1.5		1701509 Drill Core	3.25	<0.005
AUL-18-03	1701510				216	1701510 Rock Pulp	0.05	6.389
AUL-18-03	1701511	74.0	75.5	1.5		1701511 Drill Core	3.44	<0.005
AUL-18-03	1701512	75.5	77.0	1.5		1701512 Drill Core	3.25	<0.005
AUL-18-03	1701513	77.0	78.5	1.5		1701513 Drill Core	2.14	<0.005
AUL-18-03	1701514	78.5	80.0	1.5		1701514 Drill Core	4.09	<0.005
AUL-18-03	1701515	80.0	81.5	1.5		1701515 Drill Core	3.23	0.005
AUL-18-03	1701516	81.5	83.0	1.5		1701516 Drill Core	3.43	0.006
AUL-18-03	1701517	83.0	84.5	1.5		1701517 Drill Core	3.24	<0.005
AUL-18-03	1701518	84.5	86.0	1.5		1701518 Drill Core	3.17	<0.005
AUL-18-03	1701519	86.0	87.5	1.5		1701519 Drill Core	2.92	<0.005

Samples

AUL-18-03	1701520				217	1701520 Rock Pulp	0.09	0.326
AUL-18-03	1701521	87.5	89.0	1.5		1701521 Drill Core	3.43	<0.005
AUL-18-03	1701522	89.0	90.5	1.5		1701522 Drill Core	3.21	<0.005
AUL-18-03	1701523	90.5	92.0	1.5		1701523 Drill Core	3.1	<0.005
AUL-18-03	1701524	92.0	93.5	1.5		1701524 Drill Core	3.03	<0.005
AUL-18-03	1701525			blank		1701525 Rock	0.2	<0.005
AUL-18-03	1701526	93.5	95.0	1.5		1701526 Drill Core	2.78	<0.005
AUL-18-03	1701527	95.0	96.5	1.5		1701527 Drill Core	3.38	<0.005
AUL-18-03	1701528	96.5	98.0	1.5		1701528 Drill Core	3.14	<0.005
AUL-18-03	1701529	98.0	99.5	1.5		1701529 Drill Core	3.35	<0.005
AUL-18-03	1701530	99.5	101.0	1.5		1701530 Drill Core	3.13	<0.005
AUL-18-03	1701531	101.0	102.5	1.5		1701531 Drill Core	3.11	<0.005
AUL-18-03	1701532	102.5	104.0	1.5		1701532 Drill Core	3.47	0.005
AUL-18-03	1701533	104.0	105.5	1.5		1701533 Drill Core	2.8	<0.005
AUL-18-03	1701534	105.5	107.0	1.5		1701534 Drill Core	3.05	<0.005
AUL-18-03	1701535				216	1701535 Rock Pulp	0.07	6.471
AUL-18-03	1701536	107.0	108.0	1.0		1701536 Drill Core	1.98	<0.005
AUL-18-03	1701537	108.0	109.0	1.0		1701537 Drill Core	2	<0.005
AUL-18-03	1701538	109.0	110.0	1.0		1701538 Drill Core	2.03	0.014
AUL-18-03	1701539	110.0	111.0	1.0		1701539 Drill Core	2.23	<0.005
AUL-18-03	1701540	111.0	112.5	1.5		1701540 Drill Core	3.13	0.005
AUL-18-03	1701541	112.5	114.0	1.5		1701541 Drill Core	3.21	0.005
AUL-18-03	1701542	114.0	115.5	1.5		1701542 Drill Core	3.18	<0.005
AUL-18-03	1701543	115.5	117.0	1.5		1701543 Drill Core	3.09	<0.005
AUL-18-03	1701544	117.0	118.5	1.5		1701544 Drill Core	3.21	0.006
AUL-18-03	1701545				217	1701545 Rock Pulp	0.05	0.325
AUL-18-03	1701546	118.5	120.0	1.5		1701546 Drill Core	3.2	<0.005
AUL-18-03	1701547	120.0	121.5	1.5		1701547 Drill Core	3.32	<0.005
AUL-18-03	1701548	121.5	123.0	1.5		1701548 Drill Core	3.03	<0.005
AUL-18-03	1701549	123.0	124.5	1.5		1701549 Drill Core	3.16	<0.005
AUL-18-03	1701550			blank		1701550 Rock	0.18	<0.005
AUL-18-03	1701551	124.5	126.0	1.5		1701551 Drill Core	3.18	<0.005
AUL-18-03	1701552	126.0	127.5	1.5		1701552 Drill Core	3.35	<0.005
AUL-18-03	1701553	127.5	129.0	1.5		1701553 Drill Core	2.82	<0.005
AUL-18-03	1701554	129.0	130.5	1.5		1701554 Drill Core	3.23	<0.005
AUL-18-03	1701555	130.5	132.0	1.5		1701555 Drill Core	3.51	<0.005
AUL-18-03	1701556	132.0	133.5	1.5		1701556 Drill Core	2.83	<0.005
AUL-18-03	1701557	133.5	135.0	1.5		1701557 Drill Core	3.3	<0.005
AUL-18-03	1701558	135.0	136.5	1.5		1701558 Drill Core	3.31	<0.005
AUL-18-03	1701559	136.5	138.0	1.5		1701559 Drill Core	2.94	<0.005
AUL-18-03	1701560				216	1701560 Rock Pulp	0.05	3.133
AUL-18-03	1701561	138.0	139.5	1.5		1701561 Drill Core	3.35	<0.005
AUL-18-03	1701562	139.5	141.0	1.5		1701562 Drill Core	3.42	<0.005
AUL-18-03	1701563	141.0	142.5	1.5		1701563 Drill Core	3.1	<0.005
AUL-18-03	1701564	142.5	144.0	1.5		1701564 Drill Core	3.05	<0.005
AUL-18-03	1701565	144.0	145.5	1.5		1701565 Drill Core	3.19	<0.005
AUL-18-03	1701566	145.5	147.0	1.5		1701566 Drill Core	3.04	<0.005

Samples

AUL-18-03	1701567	147.0	148.5	1.5	1701567	Drill Core	3.4	<0.005
AUL-18-03	1701568	148.5	150.0	1.5	1701568	Drill Core	3.13	<0.005
AUL-18-03	1701569	150.0	151.5	1.5	1701569	Drill Core	1.69	<0.005
AUL-18-03	1701570				217	1701570	Rock Pulp	0.08 0.32
AUL-18-03	1701571	151.5	153.0	1.5	1701571	Drill Core	4.2	<0.005
AUL-18-03	1701572	153.0	154.5	1.5	1701572	Drill Core	3.19	<0.005
AUL-18-03	1701573	154.5	156.0	1.5	1701573	Drill Core	3.22	<0.005
AUL-18-03	1701574	156.0	157.5	1.5	1701574	Drill Core	2.82	<0.005
AUL-18-03	1701575			blank	1701575	Rock	0.19	<0.005
AUL-18-03	1701576	157.5	159.0	1.5	1701576	Drill Core	3.21	<0.005
AUL-18-03	1701577	159.0	160.5	1.5	1701577	Drill Core	3.39	<0.005
AUL-18-03	1701578	160.5	162.0	1.5	1701578	Drill Core	3.65	<0.005
AUL-18-03	1701579	162.0	163.5	1.5	1701579	Drill Core	3.23	0.005
AUL-18-03	1701580	163.5	165.0	1.5	1701580	Drill Core	2.76	<0.005
AUL-18-03	1701581	165.0	166.5	1.5	1701581	Drill Core	3.48	<0.005
AUL-18-03	1701582	166.5	168.0	1.5	1701582	Drill Core	3.32	<0.005
AUL-18-03	1701583	168.0	169.5	1.5	1701583	Drill Core	3.26	<0.005
AUL-18-03	1701584	169.5	171.0	1.5	1701584	Drill Core	2.94	0.006
AUL-18-03	1701585	171.0	172.5	1.5	1701585	Drill Core	3.15	<0.005
AUL-18-03	1701586	172.5	174.0	1.5	1701586	Drill Core	3.09	<0.005
AUL-18-03	1701587	174.0	175.5	1.5	1701587	Drill Core	3.19	<0.005
AUL-18-03	1701588	175.5	177.0	1.5	1701588	Drill Core	2.9	<0.005
AUL-18-03	1701589	177.0	178.5	1.5	1701589	Drill Core	2.88	<0.005
AUL-18-03	1701590	178.5	180.0	1.5	1701590	Drill Core	3.37	<0.005
AUL-18-03	1701591	180.0	181.5	1.5	1701591	Drill Core	3.05	<0.005
AUL-18-03	1701592	181.5	183.0	1.5	1701592	Drill Core	1.33	<0.005
AUL-18-03	1701593	183.0	184.5	1.5	1701593	Drill Core	1.94	<0.005
AUL-18-03	1701594	184.5	186.0	1.5	1701594	Drill Core	4.51	<0.005
AUL-18-03	1701595				217	1701595	Rock Pulp	0.08 0.331
AUL-18-03	1701596	186.0	187.5	1.5	1701596	Drill Core	3.62	<0.005
AUL-18-03	1701597	187.5	189.0	1.5	1701597	Drill Core	2.92	<0.005
AUL-18-03	1701598	189.0	190.5	1.5	1701598	Drill Core	2.8	<0.005
AUL-18-03	1701599	190.5	192.0	1.5	1701599	Drill Core	3.75	<0.005
AUL-18-03	1701600			blank	1701600	Rock	0.2	0.006
AUL-18-03	1701601	192.0	193.5	1.5	1701601	Drill Core	3.18	<0.005
AUL-18-03	1701602	193.5	195.0	1.5	1701602	Drill Core	2.96	<0.005
AUL-18-03	1701603	195.0	196.5	1.5	1701603	Drill Core	3	<0.005
AUL-18-03	1701604	196.5	198.0	1.5	1701604	Drill Core	3.41	<0.005
AUL-18-03	1701605	198.0	199.5	1.5	1701605	Drill Core	1.08	<0.005
AUL-18-03	1701606	199.5	201.0	1.5	1701606	Drill Core	5.7	<0.005
AUL-18-03	1701607	201.0	202.5	1.5	1701607	Drill Core	3.37	<0.005
AUL-18-03	1701608	202.5	204.0	1.5	1701608	Drill Core	2.72	<0.005
AUL-18-03	1701609	204.0	205.5	1.5	1701609	Drill Core	3.38	<0.005
AUL-18-03	1701610	205.5	207.0	1.5	1701610	Drill Core	3.45	<0.005
AUL-18-03	1701611	207.0	208.5	1.5	1701611	Drill Core	3.5	<0.005
AUL-18-03	1701612	208.5	210.0	1.5	1701612	Drill Core	3.06	<0.005
AUL-18-03	1701613	210.0	211.0	1.0	1701613	Drill Core	1.86	<0.005

Samples

AUL-18-03	1701614	211.0	212.0	1.0		1701614 Drill Core	2.15	<0.005
AUL-18-03	1701615	212.0	213.0	1.0		1701615 Drill Core	1.83	<0.005
AUL-18-03	1701616	213.0	214.5	1.5		1701616 Drill Core	3.87	<0.005
AUL-18-03	1701617	214.5	216.0	1.5		1701617 Drill Core	3.04	<0.005
AUL-18-03	1701618	216.0	217.5	1.5		1701618 Drill Core	2.69	<0.005
AUL-18-03	1701619	217.5	218.5	1.0		1701619 Drill Core	2.18	<0.005
AUL-18-03	1701620				217	1701620 Rock Pulp	0.08	0.324
AUL-18-03	1701621	218.5	219.9	1.4		1701621 Drill Core	3.08	<0.005
AUL-18-03	1701622	219.9	221.0	1.1		1701622 Drill Core	2.51	<0.005
AUL-18-03	1701623	221.0	222.5	1.5		1701623 Drill Core	3.05	<0.005
AUL-18-03	1701624	222.5	224.0	1.5		1701624 Drill Core	3.13	<0.005
AUL-18-03	1701625				blank	1701625 Rock Pulp	0.09	0.283
AUL-18-03	1701626	224.0	225.5	1.5		1701626 Drill Core	3.01	<0.005
AUL-18-03	1701627	225.5	227.0	1.5		1701627 Drill Core	3.27	<0.005
AUL-18-03	1701628	227.0	228.5	1.5		1701628 Drill Core	3.22	0.006
AUL-18-03	1701629	228.5	230.0	1.5		1701629 Drill Core	2.52	<0.005
AUL-18-03	1701630	230.0	231.5	1.5		1701630 Drill Core	3.29	<0.005
AUL-18-03	1701631	231.5	233.0	1.5		1701631 Drill Core	3.03	0.014
AUL-18-03	1701632	233.0	234.5	1.5		1701632 Drill Core	3.15	0.006
AUL-18-03	1701633	234.5	236.0	1.5		1701633 Drill Core	3.07	0.022
AUL-18-03	1701634	236.0	237.5	1.5		1701634 Drill Core	3.04	0.015
AUL-18-03	1701635				216	1701635 Rock Pulp	0.07	0.281
AUL-18-03	1701636	237.5	239.0	1.5		1701636 Drill Core	2.5	<0.005
AUL-18-03	1701637	239.0	240.5	1.5		1701637 Drill Core	3.53	0.01
AUL-18-03	1701638	240.5	242.0	1.5		1701638 Drill Core	3.41	0.016
AUL-18-03	1701639	242.0	243.5	1.5		1701639 Drill Core	3.15	0.014
AUL-18-03	1701640	243.5	245.0	1.5		1701640 Drill Core	2.98	0.015
AUL-18-03	1701641	245.0	246.5	1.5		1701641 Drill Core	2.89	0.011
AUL-18-03	1701642	246.5	248.0	1.5		1701642 Drill Core	3.03	0.034
AUL-18-03	1701643	248.0	249.5	1.5		1701643 Drill Core	3.19	0.045
AUL-18-03	1701644	249.5	252.0	2.5		1701644 Drill Core	5.4	0.047
AUL-18-03	1701645				217	1701645 Rock Pulp	0.07	0.321

Header

DDH ID **AUL-18-04**

	Claim #	East	North	Az	Dip	EOH (m) (Nad 83)
Location	3019086	591200	5482655	200	-50	372

Purpose Test magnetic feature with interpreted fold pattern similar to Mikwam 1.2 km east.

Start date Mar 4 2018

End date March 11,2018

Drill Contractor NPLH

Logged By T.Keast

Comments

Description

BHID	From	To	Litho	Comment
AUL-18-04	0	28	CAS	Casing through overburden
AUL-18-04	28	32.5	ARGblk	<p>ARGILLITE - Dark black weakly graphitic - soft sooty on fingers. Very fine grained. No carb stringers, weak to moderate foliation.</p> <p>Generally all black with scattered bedding/banding. Broken Blocky core. Soft easily scratched.</p>
AUL-18-04	32.5	63.5	WACKE	<p>Greywacke - Grey to green massive unit with fine granular texture, slightly coarser than the argillite.</p> <p>Narrow sections with minor fine bedding banding, overall unit is massive.</p> <p>Bedding banding is much rarer, scattered. Bands/beds seem to be more diffuse and wider, rare fine laminations as in argillite. Unit foliated</p> <p>Unit is hard but can just be scratched.</p> <p>Veins and foliation at low angle to core axis 0- 10 deg.</p> <p>At 57.m good gradation from argillite beds to massive greywacke with granular texture.</p> <p>Upper contact is broken blocky but gradational with brecciated core.</p>
AUL-18-04	63.5	202.6	ARGgry	<p>ARGILLITE - Dark grey strongly foliated with 5% carb veinlets along foliation.</p> <p>Fine beds/bands developing down unit. Numerous smallscale folds</p> <p>Unit is scratched readily</p> <p>Disrupted folded beds bands of alternating darker and lighter fine material.</p> <p>Py in disseminations 1mm carb fractures po in stringers.</p> <p>64.0-78.0 MS Increase, no distinct IF beds.</p> <p>87.2 - 88.7 Narrow interval of graphitic argillite sooty, non conductive</p> <p>114.0-118.2 White fine beds laminations alternating with darker bands/beds.</p> <p>153.0 - 155.5 Narrow section slightly massive gritty appearance.</p> <p>173.0 -177.0 Narrow interval slightly harder/silicified interval.</p>

Description

Upper contact is gradational over 1 m.

AUL-18-04	202.6	233.5	ARGmt	<p>ARGILLITE Magnetite - Dark black fine grained with bands/beds generally dark.</p> <p>Unit is viusally the same as argillite sequence from above, but with MS identifying dark black narrow bands/beds of magneitite beds.</p> <p>Beds/bands are disrupted brecciated, not associated with chert bands.</p> <p>Dark black magnetite rich bands are widely spaced. Bands are not conductive</p> <p>205.1 10 cm pos stringers weakly conductive</p> <p>206 - 207 5% qtz veins</p> <p>221.4-222.0 5-10% pu in stringers weak conductor over 2 cm</p> <p>220-226.4 Grey argillite beds/bands</p> <p>231.5-233.0 brecciated light white chert/ankerite beds with black magnetite rich beds.</p> <p>Upper contact is defined as abrupt MS change.</p>
AUL-18-04	233.5	326.6	CONG	<p>CONGLOMERATE - Light grey to buff, strngly foliated with distinct clasts throughout.</p> <p>Clasts various sizes typicly several cm, flattened, matrix supported. Clast light colored no granitic clasts</p> <p>Matrix is granular gritty, with mm qtz grains eyes dark grey rounded with sericite carb rich matrix</p> <p>Unit is readily scratched</p> <p>Local section of slightly coaser wacke type material</p> <p>257.0-258.0 Distinct brecciated Mt rich beds/bands in conglomerate.</p> <p>259.5-well developed small scale folding</p> <p>265.0-267.0 Distinct interval of argillite beds with black Mt rich beds/bands</p> <p>271.0 last Mt rich bed/band.</p> <p>Strain on clasts/flattening increase down unit.</p> <p>Rare clot of qtz showing right hand rotation.</p>

Description

Rare dark black very hard cherty clast rounded. See photo from 323m

Upper contact is abrupt over 10 cm interval

AUL-18-04 326.6 333 WACKE GREYWACKE- Distinct interbed of gritty granular material. Absence of clasts and, strong foliation chloritic, lack of sericite.
Unit is Green in color soft readily scratched, strongly foliated. Crude lighter and darker beds/bands visible.
tr py

Upper contact is sharp

AUL-18-04 333 352 CONG CONGLOMERATE - Light grey to buff, strongly foliated with distinct clasts throughout.
Clasts various sizes typically several cm, flattened, matrix supported. Clast light colored no granitic clasts
Matrix is granular gritty, with mm qtz grains eyes dark grey rounded with sericite carb rich matrix

341.6 - 343.3 Narrow wacke interbed.

Upper contact sharp.

AUL-18-04 352 366.5 shrCONG CONGLOMERATE SHEARED- Green grey strongly foliated chlorite carb schist.
Original clastic texture

overprinted by strain, rare rare cm interval with distinct preservation of clasts.
Soft readily scratched. Chlorite and 10-15% carbqtz stringers

Upper contact gradational as strain increases

AUL-18-04 366.6 372 WACKE GREYWACKE - Darker green foliated with massive appearance.

Foliated with faint bedding/banding granular texture suggests wacke.

371.0-372.0 lighter color with black fine argillite laminations tightly folded. Not Magnetite. See Photo 372

Description

Sharp upper contact

EOH - Casing Left in Hole.

Mineralization

BHID	From	To	Qtz Veins %	Py %	Po %	Arseno %	Other	Comments	Conductors (tested with ohmeter)
AUL-18-04	0.0	28.0						Casing	
AUL-18-04	28.0	32.5	1	0.5					Not conductive with ohmeter
AUL-18-04	32.5	63.5	5	1	0.5			QTZ carb stringers along foliation. Py dissem, Po stringer	Po stringer small discontinuous not conductive.
AUL-18-04	63.5	202.6	3	2	0.5			Scattered vein small local py po tr-1%	
AUL-18-04	202.6	233.5	1	1	1		Mt	Rare stringers and dissem	Magnetite in dark beds not conductive not real IF
AUL-18-04	233.5	326.6	1	1	1		Mt	scattered Mt ricc beds	Mt rich beds non conductive
AUL-18-04	252.0	253.5	1	5	5			Small stingers	Weak conductor for 2 cm along edge core
AUL-18-04	326.6	333.0		0.5	0.5				
AUL-18-04	333.0	352.0	0.5	0.5	0.5				
AUL-18-04	352.0	360.5	10	0.5	0.5			Narrow discontinuous stringers along foliation.	

Structure

BHID	Depth	Deg to CA	Comment	Comment
AUL-18-04	29.5	55	Foliation	Bedding/banding
AUL-18-04	39.0	30	Foliation	
AUL-18-04	56.0	30	Foliation	Bedding/banding
AUL-18-04	61.0	35	Foliation	
AUL-18-04	68.0	25	Foliation	
AUL-18-04	82.0	35	Foliation	Bedding/banding
AUL-18-04	96.0	35	Foliation	Bedding/banding
AUL-18-04	107.0	35	Foliation	Bedding/banding
AUL-18-04	111.0	10	Foliation	Bedding/banding
AUL-18-04	118.0	25	Foliation	Bedding/banding
AUL-18-04	138.0	30	Foliation	Bedding/banding
AUL-18-04	156.0	30	Foliation	Bedding/banding
AUL-18-04	170.0	30	Foliation	Bedding/banding
AUL-18-04	183.0	30	Foliation	Bedding/banding
AUL-18-04	192.0	30	Foliation	Bedding/banding
AUL-18-04	198.0	40	Foliation	Bedding/banding
AUL-18-04	207.0	20	Foliation	Bedding/banding
AUL-18-04	218.0	35	Foliation	Bedding/banding
AUL-18-04	226.0	60	Foliation	Bedding/banding
AUL-18-04	231.0	35	Foliation	
AUL-18-04	243.0	35	Foliation	
AUL-18-04	255.0	35	Foliation	
AUL-18-04	268.0	45	Foliation	Bedding/banding
AUL-18-04	277.0	45	Foliation	
AUL-18-04	282.0	30	Foliation	
AUL-18-04	292.0	40	Foliation	
AUL-18-04	298.0	35	Foliation	
AUL-18-04	303.0	35	Foliation	
AUL-18-04	309	40	Foliation	
AUL-18-04	312	35	Foliation	
AUL-18-04	319	35	Foliation	
AUL-18-04	327	35	Foliation	
AUL-18-04	333	25	Foliation	
AUL-18-04	339	20	Foliation	
AUL-18-04	344	45	Foliation	
AUL-18-04	354	35	Foliation	
AUL-18-04	362	30	Foliation	
AUL-18-04	366	40	Foliation	
AUL-18-04	372	25	Foliation	Small scale folding, fold axis defines foliation.

MagSuscept

BHID	Depth	MS	<i>Terraplus KT-5 Magnetic Susceptibility Meter</i>
AUL-18-04	28.0	0.00	
AUL-18-04	31.0	0.00	
AUL-18-04	36.0	0.06	
AUL-18-04	41.0	0.36	
AUL-18-04	44.0	0.22	
AUL-18-04	48.0	0.04	
AUL-18-04	52.0	0.11	
AUL-18-04	54.0	0.14	
AUL-18-04	60.0	0.14	
AUL-18-04	63.0	0.00	
AUL-18-04	64.0	0.70	
AUL-18-04	65.0	1.20	
AUL-18-04	66.0	0.66	
AUL-18-04	67.0	0.84	
AUL-18-04	68.0	0.85	
AUL-18-04	69.0	2.26	
AUL-18-04	70.0	0.86	
AUL-18-04	71.0	1.25	
AUL-18-04	72.0	2.23	
AUL-18-04	74.0	1.60	
AUL-18-04	77.0	0.78	
AUL-18-04	78.0	2.22	
AUL-18-04	79.0	0.00	
AUL-18-04	81.0	0.00	
AUL-18-04	84.0	0.24	
AUL-18-04	87.0	1.03	
AUL-18-04	92.0	2.70	
AUL-18-04	93.0	1.04	
AUL-18-04	96.0	0.04	
AUL-18-04	102.0	0.16	
AUL-18-04	107.0	0.15	
AUL-18-04	117.0	0.06	
AUL-18-04	120.0	0.26	
AUL-18-04	129.0	0.04	
AUL-18-04	138.0	0.14	
AUL-18-04	147.0	0.30	
AUL-18-04	158.0	0.48	
AUL-18-04	171.0	0.12	
AUL-18-04	183.0	0.17	
AUL-18-04	190.0	0.10	
AUL-18-04	192.0	1.70	
AUL-18-04	199.0	0.18	
AUL-18-04	201.0	0.58	
AUL-18-04	202.0	0.30	
AUL-18-04	202.6	6.90	
AUL-18-04	204.0	1.01	

MagSuscept

AUL-18-04	204.8	4.30
AUL-18-04	205.0	2.22
AUL-18-04	206.5	0.98
AUL-18-04	207.0	6.81
AUL-18-04	208	2.68
AUL-18-04	209	3.84
AUL-18-04	210	5.6
AUL-18-04	211	1.71
AUL-18-04	212	1.82
AUL-18-04	213	0.92
AUL-18-04	214	1.6
AUL-18-04	217	0.19
AUL-18-04	218	2.17
AUL-18-04	219	2.17
AUL-18-04	220	0.53
AUL-18-04	221	0.13
AUL-18-04	222	0.17
AUL-18-04	224	0.21
AUL-18-04	226	0.24
AUL-18-04	229	0.14
AUL-18-04	232	3.68
AUL-18-04	233.5	1.9
AUL-18-04	234	1.3
AUL-18-04	235	1
AUL-18-04	236	0.99
AUL-18-04	237	2.2
AUL-18-04	239	1.17
AUL-18-04	242	0.31
AUL-18-04	246	1.9
AUL-18-04	249	1.3
AUL-18-04	252	9.96
AUL-18-04	253	1.6
AUL-18-04	257.5	5.51
AUL-18-04	264	2.81
AUL-18-04	267.5	1.89
AUL-18-04	270	1.2
AUL-18-04	273	0.08
AUL-18-04	278	0.27
AUL-18-04	279	0.01
AUL-18-04	282	0.28
AUL-18-04	291	0.25
AUL-18-04	297	0.16
AUL-18-04	299	0.11
AUL-18-04	303	0.21
AUL-18-04	306	0.33
AUL-18-04	312	0.23
AUL-18-04	316	0.03

MagSuscept

AUL-18-04	318	0.2
AUL-18-04	321	0.21
AUL-18-04	324	0.47
AUL-18-04	327	0.16
AUL-18-04	331	0
AUL-18-04	337	0.19
AUL-18-04	342	0.09
AUL-18-04	347	0
AUL-18-04	354	0.2
AUL-18-04	357	0.2
AUL-18-04	360	0.14
AUL-18-04	363	0.07
AUL-18-04	366	0.42
AUL-18-04	370	0.18
AUL-18-04	371.5	0.16
AUL-18-04	372	0.18

RQD

BHID	From	To	Recovery	RQD	Comments
AUL-18-04	0	28			Overburden
AUL-18-04	28.0	30.0	1.2	0.8	
AUL-18-04	30.0	33.0	2.7	1.5	
AUL-18-04	33.0	36.0	2.9	2.2	
AUL-18-04	36.0	39.0	3.0	3.0	
AUL-18-04	39.0	42.0	3.0	2.9	
AUL-18-04	42.0	45.0	2.9	2.5	
AUL-18-04	45.0	48.0	3.0	2.9	
AUL-18-04	48.0	51.0	3.0	2.8	
AUL-18-04	51.0	54.0	3.0	2.7	
AUL-18-04	54.0	57.0	3.0	2.8	
AUL-18-04	57.0	60.0	3.0	2.9	
AUL-18-04	60.0	63.0	3.0	3.0	
AUL-18-04	63.0	66.0	3.0	2.9	
AUL-18-04	66.0	69.0	3.0	2.9	
AUL-18-04	69.0	72.0	3.0	2.8	
AUL-18-04	72.0	75.0	3.0	2.9	
AUL-18-04	75.0	78.0	3.0	2.9	
AUL-18-04	78.0	81.0	3.0	2.6	
AUL-18-04	81.0	84.0	3.0	2.2	
AUL-18-04	84.0	87.0	3.0	2.6	
AUL-18-04	87.0	90.0	2.9	1.2	
AUL-18-04	90.0	93.0	3.0	2.7	
AUL-18-04	93.0	96.0	3.0	2.8	
AUL-18-04	96.0	99.0	3.0	2.9	
AUL-18-04	99.0	102.0	3.0	2.9	
AUL-18-04	102.0	105.0	3.0	2.8	
AUL-18-04	105.0	108.0	3.0	2.6	
AUL-18-04	108.0	111.0	3.0	2.8	
AUL-18-04	111.0	114.0	3.0	2.9	
AUL-18-04	114.0	117.0	3.0	3.0	
AUL-18-04	117.0	120.0	3.0	3.0	
AUL-18-04	120.0	123.0	3.0	2.8	
AUL-18-04	123.0	126.0	3.0	2.9	
AUL-18-04	126.0	129.0	3.0	2.9	
AUL-18-04	129.0	132.0	3.0	3.0	
AUL-18-04	132.0	135.0	3.0	2.9	
AUL-18-04	135.0	138.0	3.0	2.7	
AUL-18-04	138.0	141.0	3.0	2.9	
AUL-18-04	141.0	144.0	3.0	2.8	
AUL-18-04	144.0	147.0	2.9	2.1	
AUL-18-04	147.0	150.0	3.0	2.6	
AUL-18-04	150.0	153.0	3.0	2.6	
AUL-18-04	153.0	156.0	3.0	2.6	
AUL-18-04	156.0	159.0	3.0	2.7	
AUL-18-04	159.0	162.0	3.0	2.8	

RQD

AUL-18-04	162.0	165.0	3.0	2.9
AUL-18-04	165.0	168.0	3.0	2.9
AUL-18-04	168.0	171.0	3.0	2.8
AUL-18-04	171.0	174.0	3.0	2.8
AUL-18-04	174.0	177.0	3.0	2.8
AUL-18-04	177.0	180.0	3.0	2.7
AUL-18-04	180.0	183.0	3.0	3.0
AUL-18-04	183.0	186.0	2.9	2.0
AUL-18-04	186.0	189.0	3.0	2.7
AUL-18-04	189.0	192.0	3.0	2.7
AUL-18-04	192.0	195.0	3.0	2.8
AUL-18-04	195.0	198.0	3.0	2.9
AUL-18-04	198.0	201.0	3.0	2.9
AUL-18-04	201.0	204.0	3.0	2.9
AUL-18-04	204.0	207.0	3.0	3.0
AUL-18-04	207.0	210.0	3.0	2.9
AUL-18-04	210.0	213.0	3.0	2.9
AUL-18-04	213.0	216.0	3.0	3.0
AUL-18-04	216.0	219.0	3.0	2.9
AUL-18-04	219.0	222.0	3.0	2.9
AUL-18-04	222.0	225.0	3.0	3.0
AUL-18-04	225.0	228.0	3.0	3.0
AUL-18-04	228.0	231.0	3.0	2.8
AUL-18-04	231.0	234.0	3.0	3.0
AUL-18-04	234.0	237.0	3.0	3.0
AUL-18-04	237.0	240.0	3.0	3.0
AUL-18-04	240.0	243.0	3.0	3.0
AUL-18-04	243.0	246.0	3.0	3.0
AUL-18-04	246.0	249.0	3.0	3.0
AUL-18-04	249.0	252.0	3.0	2.9
AUL-18-04	252.0	255.0	3.0	2.8
AUL-18-04	255.0	258.0	3.0	2.9
AUL-18-04	258.0	261.0	3.0	3.0
AUL-18-04	261.0	264.0	3.0	3.0
AUL-18-04	264.0	267.0	3.0	3.0
AUL-18-04	267.0	270.0	3.0	3.0
AUL-18-04	270.0	273.0	3.0	3.0
AUL-18-04	273.0	276.0	3.0	3.0
AUL-18-04	276.0	279.0	3.0	3.0
AUL-18-04	279.0	282.0	3.0	3.0
AUL-18-04	282.0	285.0	3.0	3.0
AUL-18-04	285.0	288.0	3.0	3.0
AUL-18-04	288.0	291.0	3.0	3.0
AUL-18-04	291.0	294.0	3.0	3.0
AUL-18-04	294.0	297.0	3.0	3.0
AUL-18-04	297.0	300.0	3.0	2.9
AUL-18-04	300.0	303.0	3.0	2.9

RQD

AUL-18-04	303.0	306.0	3.0	3.0
AUL-18-04	306.0	309.0	3.0	2.9
AUL-18-04	309	312	3	3
AUL-18-04	312	315	3	3
AUL-18-04	315	318	3	2.9
AUL-18-04	318	321	3	2.9
AUL-18-04	321	324	3	3
AUL-18-04	324	327	3	3
AUL-18-04	327	330	3	2.8
AUL-18-04	330	333	3	3
AUL-18-04	333	336	3	3
AUL-18-04	336	339	3	3
AUL-18-04	339	342	3	3
AUL-18-04	342	345	3	2.8
AUL-18-04	345	348	3	2.8
AUL-18-04	348	351	3	2.8
AUL-18-04	351	354	3	2.9
AUL-18-04	354	357	3	3
AUL-18-04	357	360	3	3
AUL-18-04	360	363	3	3
AUL-18-04	363	366	3	3
AUL-18-04	366	369	3	2.9
AUL-18-04	369	372	3	3

Reflex

BHID	Depth	Az	Az Correct	Dip	Mag Field	Use Az	Use Dip	Comments
AUL-18-04	72.0	210.8	198.3	-48.0	56141.0			
AUL-18-04	123.0	211.6	199.1	-46.2	55931.0			
AUL-18-04	174.0	210.2	197.7	-44.4	56364.0			
AUL-18-04	225.0	212.4	199.9	-43.5	56344.0			
AUL-18-04	276.0	211.4	198.9	-42.5	55852.0			
AUL-18-04	327.0	211.0	198.5	-41.5	56791.0			
AUL-18-04	366.0	213.2	200.7	-40.8	55992.0			

Samples

BHID	Sample	From	To	Width	Stand/blank	QV %	Po%	Py%	Other	Wgt kg	Au ppm
AUL-18-04	1701648	29.5	31.0	1.5						1701648 Drill Core	2.74 <0.005
AUL-18-04	1701649	31.0	32.5	1.5						1701649 Drill Core	3.08 <0.005
AUL-18-04	1701650				blank					1701650 Rock	0.19 <0.005
AUL-18-04	1701651	32.5	34.0	1.5						1701651 Drill Core	2.63 <0.005
AUL-18-04	1701652	34.0	35.5	1.5						1701652 Drill Core	3.34 <0.005
AUL-18-04	1701653	35.5	37.0	1.5						1701653 Drill Core	3.21 <0.005
AUL-18-04	1701654	37.0	38.5	1.5						1701654 Drill Core	2.99 <0.005
AUL-18-04	1701655	38.5	40.0	1.5						1701655 Drill Core	3.74 <0.005
AUL-18-04	1701656	40.0	41.5	1.5						1701656 Drill Core	3.05 <0.005
AUL-18-04	1701657	41.5	43.0	1.5						1701657 Drill Core	3 <0.005
AUL-18-04	1701658	43.0	44.5	1.5						1701658 Drill Core	3.17 <0.005
AUL-18-04	1701659	44.5	46.0	1.5						1701659 Drill Core	3.2 <0.005
AUL-18-04	1701660	46.0	47.5	1.5						1701660 Drill Core	3.45 <0.005
AUL-18-04	1701661	47.5	49.0	1.5						1701661 Drill Core	3.32 <0.005
AUL-18-04	1701662	49.0	50.5	1.5						1701662 Drill Core	3.25 <0.005
AUL-18-04	1701663	50.5	52.0	1.5						1701663 Drill Core	3.21 <0.005
AUL-18-04	1701664	52.0	53.5	1.5						1701664 Drill Core	3.33 <0.005
AUL-18-04	1701665	53.5	55.0	1.5						1701665 Drill Core	3.08 <0.005
AUL-18-04	1701666	55.0	56.5	1.5						1701666 Drill Core	3.21 <0.005
AUL-18-04	1701667	56.5	58.0	1.5						1701667 Drill Core	3.07 <0.005
AUL-18-04	1701668	58.0	59.5	1.5						1701668 Drill Core	3.43 <0.005
AUL-18-04	1701669	59.5	61.0	1.5						1701669 Drill Core	3.07 <0.005
AUL-18-04	1701670				217					1701670 Rock Pulp	0.07 0.325
AUL-18-04	1701671	61.0	62.0	1.0						1701671 Drill Core	2.43 <0.005
AUL-18-04	1701672	62.0	63.5	1.5						1701672 Drill Core	3.21 <0.005
AUL-18-04	1701673	63.5	65.0	1.5						1701673 Drill Core	3.17 <0.005
AUL-18-04	1701674	65.0	66.5	1.5						1701674 Drill Core	3.46 <0.005
AUL-18-04	1701675				blank					1701675 Rock	0.19 <0.005
AUL-18-04	1701676	66.5	68.0	1.5						1701676 Drill Core	3.09 0.007
AUL-18-04	1701677	68.0	69.5	1.5						1701677 Drill Core	3.04 0.006
AUL-18-04	1701678	69.5	71.0	1.5						1701678 Drill Core	3.25 0.008
AUL-18-04	1701679	71.0	72.5	1.5						1701679 Drill Core	3.24 0.007
AUL-18-04	1701680	72.5	74.0	1.5						1701680 Drill Core	3.04 0.009
AUL-18-04	1701681	74.0	75.5	1.5						1701681 Drill Core	3.01 0.023
AUL-18-04	1701682	75.5	77.0	1.5						1701682 Drill Core	2.9 <0.005
AUL-18-04	1701683	77.0	78.5	1.5						1701683 Drill Core	3.42 <0.005
AUL-18-04	1701684	78.5	80.0	1.5						1701684 Drill Core	2.47 <0.005
AUL-18-04	1701685				216					1701685 Rock Pulp	0.09 6.459
AUL-18-04	1701686	80.0	81.5	1.5						1701686 Drill Core	3.48 <0.005
AUL-18-04	1701687	81.5	83.0	1.5						1701687 Drill Core	2.81 <0.005
AUL-18-04	1701688	83.0	84.5	1.5						1701688 Drill Core	3.21 <0.005
AUL-18-04	1701689	84.5	86.0	1.5						1701689 Drill Core	2.97 <0.005

Samples

AUL-18-04	1701690	86.0	87.5	1.5		1701690 Drill Core	3.4	<0.005
AUL-18-04	1701691	87.5	89.0	1.5		1701691 Drill Core	2.51	<0.005
AUL-18-04	1701692	89.0	90.5	1.5		1701692 Drill Core	3.02	<0.005
AUL-18-04	1701693	90.5	92.0	1.5		1701693 Drill Core	3.19	<0.005
AUL-18-04	1701694	92.0	93.5	1.5		1701694 Drill Core	3.53	<0.005
AUL-18-04	1701695				217	1701695 Rock Pulp	0.07	0.335
AUL-18-04	1701696	93.5	95.0	1.5		1701696 Drill Core	3.28	<0.005
AUL-18-04	1701697	95.0	96.5	1.5		1701697 Drill Core	3.5	<0.005
AUL-18-04	1701698	96.5	98.0	1.5		1701698 Drill Core	3.19	<0.005
AUL-18-04	1701699	98.0	99.5	1.5		1701699 Drill Core	3.6	<0.005
AUL-18-04	1701700				blank	1701700 Rock	0.15	<0.005
AUL-18-04	1701701	99.5	101.0	1.5		1701701 Drill Core	3.22	<0.005
AUL-18-04	1701702	101.0	102.5	1.5		1701702 Drill Core	3.37	<0.005
AUL-18-04	1701703	102.5	104.0	1.5		1701703 Drill Core	2.87	<0.005
AUL-18-04	1701704	104.0	105.5	1.5		1701704 Drill Core	3.73	<0.005
AUL-18-04	1701705	105.5	107.0	1.5		1701705 Drill Core	3.16	<0.005
AUL-18-04	1701706	107.0	108.5	1.5		1701706 Drill Core	3.2	<0.005
AUL-18-04	1701707	108.5	110.0	1.5		1701707 Drill Core	3.25	<0.005
AUL-18-04	1701708	110.0	111.5	1.5		1701708 Drill Core	3.13	<0.005
AUL-18-04	1701709	111.5	113.0	1.5		1701709 Drill Core	3.44	<0.005
AUL-18-04	1701710	113.0	114.5	1.5		1701710 Drill Core	2.82	<0.005
AUL-18-04	1701711	114.5	116.0	1.5		1701711 Drill Core	3.17	<0.005
AUL-18-04	1701712	116.0	117.5	1.5		1701712 Drill Core	3.27	<0.005
AUL-18-04	1701713	117.5	119.0	1.5		1701713 Drill Core	3.13	<0.005
AUL-18-04	1701714	119.0	120.5	1.5		1701714 Drill Core	3.24	<0.005
AUL-18-04	1701715	120.5	122.0	1.5		1701715 Drill Core	3.43	<0.005
AUL-18-04	1701716	122.0	123.5	1.5		1701716 Drill Core	3.15	<0.005
AUL-18-04	1701717	123.5	125.0	1.5		1701717 Drill Core	3.49	<0.005
AUL-18-04	1701718	125.0	126.5	1.5		1701718 Drill Core	3.13	<0.005
AUL-18-04	1701719	126.5	128.0	1.5		1701719 Drill Core	3.65	<0.005
AUL-18-04	1701720				217	1701720 Rock Pulp	0.06	0.321
AUL-18-04	1701721	128.0	129.5	1.5		1701721 Drill Core	3.12	<0.005
AUL-18-04	1701722	129.5	131.0	1.5		1701722 Drill Core	3.23	<0.005
AUL-18-04	1701723	131.0	132.5	1.5		1701723 Drill Core	3.09	0.006
AUL-18-04	1701724	132.5	134.0	1.5		1701724 Drill Core	3.44	<0.005
AUL-18-04	1701725				blank	1701725 Rock	0.14	<0.005
AUL-18-04	1701726	134.0	135.5	1.5		1701726 Drill Core	3.11	<0.005
AUL-18-04	1701727	135.5	137.0	1.5		1701727 Drill Core	2.89	<0.005
AUL-18-04	1701728	137.0	138.5	1.5		1701728 Drill Core	2.97	<0.005
AUL-18-04	1701729	138.5	140.0	1.5		1701729 Drill Core	2.71	<0.005
AUL-18-04	1701730	140.0	141.5	1.5	3	1701730 Drill Core	3.55	<0.005
AUL-18-04	1701731	141.5	143.0	1.5	3	1701731 Drill Core	2.98	<0.005
AUL-18-04	1701732	143.0	144.5	1.5	3	1701732 Drill Core	2.35	<0.005

Samples

AUL-18-04	1701733	144.5	146.0	1.5		1701733	Drill Core	3.08	<0.005	
AUL-18-04	1701734	146.0	147.5	1.5		1701734	Drill Core	3.01	<0.005	
AUL-18-04	1701735				216	1701735	Rock Pulp	0.08	6.337	
AUL-18-04	1701736	147.5	149.0	1.5		1701736	Drill Core	2.99	<0.005	
AUL-18-04	1701737	149.0	150.5	1.5		1701737	Drill Core	2.78	<0.005	
AUL-18-04	1701738	150.5	152.0	1.5		1701738	Drill Core	2.64	<0.005	
AUL-18-04	1701739	152.0	153.5	1.5		1701739	Drill Core	3.14	<0.005	
AUL-18-04	1701740	153.5	155.0	1.5		1701740	Drill Core	2.99	<0.005	
AUL-18-04	1701741	155.0	156.5	1.5		2	1701741	Drill Core	3.37	<0.005
AUL-18-04	1701742	156.5	158.0	1.5		2	1701742	Drill Core	2.92	<0.005
AUL-18-04	1701743	158.0	159.5	1.5		2	1701743	Drill Core	3.22	<0.005
AUL-18-04	1701744	159.5	161.0	1.5		2	1701744	Drill Core	3.27	<0.005
AUL-18-04	1701745				217	1701745	Rock Pulp	0.04	0.328	
AUL-18-04	1701746	161.0	162.5	1.5		1701746	Drill Core	3.46	<0.005	
AUL-18-04	1701747	162.5	164.0	1.5		1701747	Drill Core	3.59	<0.005	
AUL-18-04	1701748	164.0	165.5	1.5		1701748	Drill Core	3.2	<0.005	
AUL-18-04	1701749	165.5	167.0	1.5		5	1701749	Drill Core	2.94	<0.005
AUL-18-04	1701750				blank	1701750	Rock	0.14	<0.005	
AUL-18-04	1701751	167.0	168.5	1.5		5	1701751	Drill Core	3.17	<0.005
AUL-18-04	1701752	168.5	170.0	1.5		1701752	Drill Core	3.24	<0.005	
AUL-18-04	1701753	170.0	171.5	1.5		3	1701753	Drill Core	3.21	<0.005
AUL-18-04	1701754	171.5	173.0	1.5		3	1701754	Drill Core	3.15	<0.005
AUL-18-04	1701755	173.0	174.5	1.5		1701755	Drill Core	3.1	<0.005	
AUL-18-04	1701756	174.5	176.0	1.5		1701756	Drill Core	3.28	<0.005	
AUL-18-04	1701757	176.0	177.5	1.5		1701757	Drill Core	2.98	<0.005	
AUL-18-04	1701758	177.5	179.0	1.5		1701758	Drill Core	3.59	<0.005	
AUL-18-04	1701759	179.0	180.5	1.5		1701759	Drill Core	3.07	<0.005	
AUL-18-04	1701760	180.5	182.0	1.5		1701760	Drill Core	3.38	<0.005	
AUL-18-04	1701761	182.0	183.5	1.5		1701761	Drill Core	3.19	<0.005	
AUL-18-04	1701762	183.5	185.0	1.5		1701762	Drill Core	3.58	<0.005	
AUL-18-04	1701763	185.0	186.5	1.5		1701763	Drill Core	3.13	<0.005	
AUL-18-04	1701764	186.5	188.0	1.5		1701764	Drill Core	3.34	<0.005	
AUL-18-04	1701765	188.0	189.5	1.5		1701765	Drill Core	3.12	<0.005	
AUL-18-04	1701766	189.5	191.0	1.5		1701766	Drill Core	3.34	<0.005	
AUL-18-04	1701767	191.0	192.5	1.5		1701767	Drill Core	2.94	<0.005	
AUL-18-04	1701768	192.5	194.0	1.5		1701768	Drill Core	3.41	0.006	
AUL-18-04	1701769	194.0	195.5	1.5		1701769	Drill Core	3.08	<0.005	
AUL-18-04	1701770				217	1701770	Rock Pulp	0.05	0.319	
AUL-18-04	1701771	195.5	197.0	1.5		1701771	Drill Core	3.2	<0.005	
AUL-18-04	1701772	197.0	198.5	1.5		1701772	Drill Core	3.69	<0.005	
AUL-18-04	1701773	198.5	200.0	1.5		1701773	Drill Core	3.6	<0.005	
AUL-18-04	1701774	200.0	201.5	1.5		1701774	Drill Core	3.37	<0.005	
AUL-18-04	1701775				blank	1701775	Rock	0.16	<0.005	

Samples

AUL-18-04	1701776	201.5	202.6	1.1		1701776 Drill Core	2.51	<0.005
AUL-18-04	1701777	202.6	204.0	1.4		1701777 Drill Core	2.77	0.007
AUL-18-04	1701778	204.0	205.5	1.5		1701778 Drill Core	2.36	0.005
AUL-18-04	1701779	205.5	207.0	1.5		1701779 Drill Core	4.46	0.006
AUL-18-04	1701780	207.0	208.5	1.5		1701780 Drill Core	2.84	0.005
AUL-18-04	1701781	208.5	210.0	1.5		1701781 Drill Core	3.87	0.006
AUL-18-04	1701782	210.0	211.5	1.5		1701782 Drill Core	3.31	0.005
AUL-18-04	1701783	211.5	213.0	1.5		1701783 Drill Core	3.27	<0.005
AUL-18-04	1701784	213.0	214.5	1.5		1701784 Drill Core	3.18	0.006
AUL-18-04	1701785				216	1701785 Rock Pulp	0.07	5.217
AUL-18-04	1701786	214.5	216.0	1.5		1701786 Drill Core	3.33	<0.005
AUL-18-04	1701787	216.0	217.5	1.5		1701787 Drill Core	3.28	<0.005
AUL-18-04	1701788	217.5	219.0	1.5		1701788 Drill Core	3.33	<0.005
AUL-18-04	1701789	219.0	220.5	1.5		1701789 Drill Core	3.36	<0.005
AUL-18-04	1701790	220.5	222.0	1.5		1701790 Drill Core	3.42	<0.005
AUL-18-04	1701791	222.0	223.5	1.5		1701791 Drill Core	3.18	0.005
AUL-18-04	1701792	223.5	225.0	1.5		1701792 Drill Core	3.22	<0.005
AUL-18-04	1701793	225.0	226.5	1.5		1701793 Drill Core	3.18	<0.005
AUL-18-04	1701794	226.5	228.0	1.5		1701794 Drill Core	3.54	<0.005
AUL-18-04	1701795				217	1701795 Rock Pulp	0.05	0.248
AUL-18-04	1701796	228.0	229.5	1.5		1701796 Drill Core	3.09	<0.005
AUL-18-04	1701797	229.5	231.0	1.5		1701797 Drill Core	3.41	<0.005
AUL-18-04	1701798	231.0	232.5	1.5		1701798 Drill Core	3.66	<0.005
AUL-18-04	1701799	232.5	234.0	1.5		1701799 Drill Core	3.57	<0.005
AUL-18-04	1701800				blank	1701800 Rock	0.14	0.005
AUL-18-04	1701801	234.0	235.5	1.5		1701801 Drill Core	3.3	<0.005
AUL-18-04	1701802	235.5	237.0	1.5		1701802 Drill Core	3.33	<0.005
AUL-18-04	1701803	237.0	238.5	1.5		1701803 Drill Core	3.47	<0.005
AUL-18-04	1701804	238.5	240.0	1.5		1701804 Drill Core	3.51	<0.005
AUL-18-04	1701805	240.0	241.5	1.5		1701805 Drill Core	3.36	<0.005
AUL-18-04	1701806	241.5	243.0	1.5		1701806 Drill Core	3.34	0.006
AUL-18-04	1701807	243.0	244.5	1.5		1701807 Drill Core	3.47	0.007
AUL-18-04	1701808	244.5	246.0	1.5		1701808 Drill Core	3.69	0.007
AUL-18-04	1701809	246.0	247.5	1.5		1701809 Drill Core	3.05	0.005
AUL-18-04	1701810	247.5	249.0	1.5		1701810 Drill Core	3.58	0.008
AUL-18-04	1701811	249.0	250.5	1.5		1701811 Drill Core	3.56	0.006
AUL-18-04	1701812	250.5	252.0	1.5		1701812 Drill Core	3.77	0.007
AUL-18-04	1701813	252.0	253.5	1.5	5 5 Stringers	1701813 Drill Core	3.4	0.005
AUL-18-04	1701814	253.5	255.0	1.5		1701814 Drill Core	3.13	0.006
AUL-18-04	1701815	255.0	256.5	1.5		1701815 Drill Core	3.45	<0.005
AUL-18-04	1701816	256.5	258.0	1.5		1701816 Drill Core	3.62	0.006
AUL-18-04	1701817	258.0	259.5	1.5		1701817 Drill Core	3.59	0.007
AUL-18-04	1701818	259.5	261.0	1.5		1701818 Drill Core	3.65	<0.005

Samples

AUL-18-04	1701819	261.0	262.5	1.5		1701819 Drill Core	3.71	0.008
AUL-18-04	1701820				217	1701820 Rock Pulp	0.05	0.255
AUL-18-04	1701821	262.5	264.0	1.5		1701821 Drill Core	3.88	<0.005
AUL-18-04	1701822	264.0	265.5	1.5		1701822 Drill Core	3.38	0.01
AUL-18-04	1701823	265.5	267.0	1.5		1701823 Drill Core	3.97	<0.005
AUL-18-04	1701824	267.0	268.5	1.5		1701824 Drill Core	3.27	0.008
AUL-18-04	1701825				blank	1701825 Rock	0.15	<0.005
AUL-18-04	1701826	268.5	270.0	1.5		1701826 Drill Core	3.06	0.006
AUL-18-04	1701827	270.0	271.5	1.5		1701827 Drill Core	4.23	0.007
AUL-18-04	1701828	271.5	273.0	1.5		1701828 Drill Core	3.26	0.007
AUL-18-04	1701829	273.0	274.5	1.5		1701829 Drill Core	3.26	0.013
AUL-18-04	1701830	274.5	276.0	1.5		1701830 Drill Core	3.14	0.01
AUL-18-04	1701831	276.0	277.5	1.5		1701831 Drill Core	3.09	0.028
AUL-18-04	1701832	277.5	279.0	1.5		1701832 Drill Core	3.07	0.034
AUL-18-04	1701833	279.0	280.5	1.5		1701833 Drill Core	3.19	0.457
AUL-18-04	1701834	280.5	282.0	1.5		1701834 Drill Core	2.69	0.048
AUL-18-04	1701835				216	1701835 Drill Core	L.N.R.	L.N.R.
AUL-18-04	1701836	282.0	283.5	1.5		1701836 Drill Core	3.59	0.025
AUL-18-04	1701837	283.5	285.0	1.5		1701837 Drill Core	3.47	0.01
AUL-18-04	1701838	285.0	286.5	1.5		1701838 Drill Core	3.43	0.067
AUL-18-04	1701839	286.5	288.0	1.5		1701839 Drill Core	3.17	0.01
AUL-18-04	1701840	288.0	289.5	1.5		1701840 Drill Core	3.26	0.06
AUL-18-04	1701841	289.5	291.0	1.5		1701841 Drill Core	2.88	0.005
AUL-18-04	1701842	291.0	292.5	1.5		1701842 Drill Core	3.81	0.036
AUL-18-04	1701843	292.5	294.0	1.5		1701843 Drill Core	3.12	0.009
AUL-18-04	1701844	294.0	295.5	1.5		1701844 Drill Core	3.41	0.04
AUL-18-04	1701845				217	1701845 Rock Pulp	0.07	0.322
AUL-18-04	1701846	295.5	297.0	1.5		1701846 Drill Core	3.47	0.067
AUL-18-04	1701847	297.0	298.5	1.5		1701847 Drill Core	3.05	<0.005
AUL-18-04	1701848	298.5	300.0	1.5		1701848 Drill Core	3.53	0.09
AUL-18-04	1701849	300.0	301.5	1.5		1701849 Drill Core	3.46	0.019
AUL-18-04	1701850				blank	1701850 Rock	0.15	<0.005
AUL-18-04	1701851	301.5	303.0	1.5		1701851 Drill Core	3.21	0.024
AUL-18-04	1701852	303.0	304.5	1.5		1701852 Drill Core	3.32	0.038
AUL-18-04	1701853	304.5	306.0	1.5		1701853 Drill Core	3.35	0.005
AUL-18-04	1701854	306.0	307.5	1.5		1701854 Drill Core	3.33	0.009
AUL-18-04	1701855	307.5	309.0	1.5		1701855 Drill Core	3.17	<0.005
AUL-18-04	1701856	309.0	310.5	1.5		1701856 Drill Core	3.32	0.015
AUL-18-04	1701857	310.5	312.0	1.5		1701857 Drill Core	3.28	0.022
AUL-18-04	1701858	312.0	313.5	1.5		1701858 Drill Core	3.46	0.026
AUL-18-04	1701859	313.5	315.0	1.5		1701859 Drill Core	3.27	0.007
AUL-18-04	1701860	315.0	316.5	1.5		1701860 Drill Core	3.18	0.007
AUL-18-04	1701861	316.5	318.0	1.5		1701861 Drill Core	3.31	<0.005

Samples

AUL-18-04	1701862	318.0	319.5	1.5		1701862	Drill Core	3.31	0.01
AUL-18-04	1701863	319.5	321.0	1.5		1701863	Drill Core	3.58	0.029
AUL-18-04	1701864	321.0	322.5	1.5		1701864	Drill Core	3.24	0.034
AUL-18-04	1701865	322.5	324.0	1.5		1701865	Drill Core	3.43	0.02
AUL-18-04	1701866	324.0	325.5	1.5		1701866	Drill Core	3.19	<0.005
AUL-18-04	1701867	325.5	326.6	1.1	10 0.5 0.5	1701867	Drill Core	2.62	0.006
AUL-18-04	1701868	326.6	328.0	1.4		1701868	Drill Core	3.29	0.009
AUL-18-04	1701869	328.0	329.5	1.5		1701869	Drill Core	3.01	0.01
AUL-18-04	1701870				217	1701870	Rock Pulp	0.05	0.328
AUL-18-04	1701871	329.5	331.0	1.5		1701871	Drill Core	3.1	0.015
AUL-18-04	1701872	331.0	332.0	1.0		1701872	Drill Core	2.23	0.006
AUL-18-04	1701873	332.0	333.0	1.0		1701873	Drill Core	2.24	0.007
AUL-18-04	1701874	333.0	334.5	1.5		1701874	Drill Core	3.27	0.033
AUL-18-04	1701875				blank	1701875	Rock	0.15	<0.005
AUL-18-04	1701876	334.5	336.0	1.5		1701876	Drill Core	3.37	0.031
AUL-18-04	1701877	336	337.5	1.5		1701877	Drill Core	3.41	0.051
AUL-18-04	1701878	337.5	339	1.5		1701878	Drill Core	3.37	0.059
AUL-18-04	1701879	339	340.5	1.5		1701879	Drill Core	3.46	<0.005
AUL-18-04	1701880	340.5	342	1.5		1701880	Drill Core	3.46	0.005
AUL-18-04	1701881	342	343.5	1.5		1701881	Drill Core	3.12	0.095
AUL-18-04	1701882	343.5	345	1.5		1701882	Drill Core	3.73	0.006
AUL-18-04	1701883	345	346.5	1.5		1701883	Drill Core	3.32	<0.005
AUL-18-04	1701884	346.5	348	1.5		1701884	Drill Core	3.42	<0.005
AUL-18-04	1701885				216	1701885	Rock Pulp	0.07	6.375
AUL-18-04	1701886	348	349.5	1.5		1701886	Drill Core	3.34	<0.005
AUL-18-04	1701887	349.5	351	1.5		1701887	Drill Core	3.42	<0.005
AUL-18-04	1701888	351	352	1		1701888	Drill Core	2.45	<0.005
AUL-18-04	1701889	352	353.5	1.5		1701889	Drill Core	3.02	0.006
AUL-18-04	1701890	353.5	355	1.5		1701890	Drill Core	3.51	<0.005
AUL-18-04	1701891	355	356.5	1.5		1701891	Drill Core	3.31	<0.005
AUL-18-04	1701892	356.5	358	1.5		1701892	Drill Core	3.56	0.005
AUL-18-04	1701893	358	359.5	1.5		1701893	Drill Core	3.65	<0.005
AUL-18-04	1701894	359.5	361	1.5		1701894	Drill Core	2.97	<0.005
AUL-18-04	1701895				217	1701895	Rock Pulp	0.06	0.322
AUL-18-04	1701896	361	362.5	1.5		1701896	Drill Core	3.34	<0.005
AUL-18-04	1701897	362.5	364	1.5		1701897	Drill Core	3.58	<0.005
AUL-18-04	1701898	364	365.5	1.5		1701898	Drill Core	3.51	<0.005
AUL-18-04	1701899	365.5	366.5	1		1701899	Drill Core	2.14	<0.005
AUL-18-04	1701900				blank	1701900	Rock	0.14	<0.005
AUL-18-04	1701901	366.5	368	1.5		1701901	Drill Core	4.32	<0.005
AUL-18-04	1701902	368	369.5	1.5		1701902	Drill Core	2.36	<0.005
AUL-18-04	1701903	369.5	371	1.5		1701903	Drill Core	3.19	<0.005
AUL-18-04	1701904	371	372	1		1701904	Drill Core	2.32	<0.005

Header

DDH ID **AUL-18-05**

	Claim #	East	North	Az	Dip	EOH (m)	(Nad 83)
Location	3019086	592455	5483130	180	-50	225	

Purpose Shallow east intersection of the Mikwam Deposit.

Start date March 11, 2018

End date March 15,2018

Drill Contractor NPLH

Logged By T.Keast

Comments

Description

BHID	From	To	Litho	Comment
AUL-18-05	0	32.5	CAS	Casing through overburden
AUL-18-05	32.5	35.0	CONG	<p>CONGLOMERATE - Light grey, strongly foliated. Broken blocky core with limonite fractures make recognition of unit difficult.</p> <p>Distinct conglomerate clasts from 33.0 - 34.5. Clasts flattened, light in colour and several cm in width, stretched.</p> <p>Groundmass has a light granular appearance.</p> <p>Unit is readily scratched</p> <p>34.2-34.6 50% qtz veins tr py</p>
AUL-18-05	35	45.5	WACKE	<p>GREYWACKE - Grey to light. Fine granular texture, slightly coarser than the typical argillite.</p> <p>Core broken blocky with limonitic fractures, weathering.</p> <p>Narrow grey bands/beds 1-3 cm wide in gritty groundmass.</p> <p>Unit strongly foliated.</p> <p>Unit is readily scratched, light grey bands/beds slightly harder than groundmass.</p> <p>Upper contact is poorly defined due to broken blocky oxidized core.</p>
AUL-18-05	45.5	53.5	ARGgry	<p>ARGILLITE Grey- Light grey strongly foliated with banding/bedding throughout</p> <p>Sections have a granular matrix similar to greywacke, the banding/bedding suggests argillite</p> <p>Banding likely results of strong foliation of original units</p> <p>Sericite developed in the groundmass down unit</p> <p>Py in 5mm cubes throughout</p> <p>Upper contact is poorly defined, broken blocky oxidized core. Gradational contact.</p>
AUL-18-05	53.5	67	ARGblk	<p>ARGILLITE Black - Dark black fine grained with bands/beds generally dark several cm wide.</p> <p>Strongly foliated. Bands/beds alternating black and various shades of grey several cm to mm laminations.</p> <p>53.5 - 55.0 Strongly sheared with qtz boudins and chloritic matrix</p>

Description

55.0 - 56.0 Grey banded argillite/wacke section.

56.0 -56.3 broken blocky core, darker pieces of banded/bedded material.

Soft readily scratched.

3-5% qtz carb veins generally boudinaged. Veins boudins are bone white color similar in appearance to chert.

Fine py, limoitic stringers and py stringers rare. No conductivity.

Small scale boudinage features suggest high strain.

Upper contact is gradational, alternating grey argillite bands and black bands and sections of strong foliation.

AUL-18-05 67 71 MINZONI MINERALIZED ZONE - Light grey strongly foliated. Considerable variation in unit, broken into two subunits

67.0 - 69.1 Interval closely resembles Conglomerate with considerable light buff, light grey bands, possibly flattened clasts.

Several possible clast outlines. Groundmass has a granular appearance. 1-3% py.

Buff color slightly orange possible ankerite?

Fine fuchsite (handlense) in the sericite/ankerite groundmass.

Unit is harder just able to take a scratch

69.1- 71.0 10-15% fine py in poorly defined stringers and fine disseminations along strong foliation planes.

Distinct vuggy texture to several small 1-3 cm qtz carb veins

Strongly sheared, precursor rock unknown Argillite-conglomerate

Py stringer is barely conductive across the core axis.

White/grey bands strongly foliation with intervals that resemble conglomerate clasts, possible boudinage features.

Sericite, no fuchsite.

Hardness is softer variable depending on individual bands.

AUL-18-05 71 78.1 ARGblk ARGILLITE Black - Dark black fine grained with bands/beds generally dark several cm wide.
Strongly foliated. Bands/beds alternating black and various shades of grey several cm to mm laminations.

Description

tr py. Readily scratched..

Upper contact is sharp

AUL-18-05 78.1 83.2 ARGgry ARGILLITE Grey Light with dark Black Laminations. Light in color with distinct light grey and white bands/beds, the unit is identified as unique unit due to scattered <1cm wide dark black fine beds and laminations, look like magnetite beds. Black beds are narrow hard cannot be scratched, and non Magnetic. Visually they look like Iron Formation, not magnetic. Suggest that this has been historically logged as Iron formation. White dull bands resemble chert beds. Small scale folding of white cherty like beds. Generally unit is readily scratched, with exception of white cherty bands and black laminations.

Upper contact sharp.

AUL-18-05 83.2 90.2 WACKE GREYWACKE - Grey to light. Fine granular texture, strongly foliated. Alternating light and slightly darker grey bands/beds, and granular appearance to groundmass suggest greywacke. Soft readily scratched. 86.0 - 87.0 slightly darker interval strongly bedded/banded possible argillite interfingering.

Upper contact gradational is sharp.

AUL-18-05 90.2 137.7 ARGblk ARGILLITE Black - Dark black fine grained with bands/beds generally dark several cm wide. Strongly foliated. Bands/beds alternating black and various shades of grey several cm to mm laminations. Distinct py in 5-8mm cubes, disappearing down unit 1-3% narrow qtz carb strings

Narrow interbeds/interfingering of lighter grey argillite unit throughout.

106.8 - 110.0 - Argillite grey interbed, light color well bedded/banded gradational contact with Argillite black

Description

107.2-108 - Broken blocky core

112.8 - 113.4 - Argillite grey interbed, light color well bedded/banded gradational contact with Argillite black

114.1 - 121.1 - Argillite grey interbed, light color well bedded/banded gradational contact with Argillite black

118.7-121.5 - Broken blocky core.

121.5 -boudinaged qtz Vein

122.5-123.6 - Argillite grey interbed, light color well bedded/banded gradational contact with Argillite black

126.5-131.2 - Argillite grey interbed, light color well bedded/banded gradational contact with Argillite black

134.0-135.0 - Argillite grey interbed, light color well bedded/banded gradational contact with Argillite black

Sharp upper contact

AUL-18-05	137.7	152	WACKE	GREYWACKE - Grey to light. Fine granular texture, strongly foliated. Alternating light and slightly darker grey bands/beds, and granular appearance to groundmass suggest greywacke. Beds not well defined, hazy indistinct contacts, not sharp like the Argillite. Unit is harder but is able to scratch. 0.5% fine py. 146.0 152.0 5-7% grey Qtz veins up to several cm wide and irregular shape roughly parallel to foliation up to 1% fine py in veins.
AUL-18-05	152	190.3	shrCONG	CONGLOMERATE sheared - Grey light strongly foliated with bands of lighter color buff material in granular groundmass. Clasts are flattened out and appear as bands, rare ends to clasts indicated conglomerate.

Description

152.0 - 163.0 3-5% grey qtz stringers and patches along foliation 1% fine py.
Continuation of veining from above unit.

159 - 161 Well defined very flattened clasts.

170 -171 Well defined very flattened clasts.

rare 1mm wide py stringer.

Scattered Grey qtz veins up to 10 cm wide with white carbonate tr py.

Gradational upper contact over 1 m

AUL-18-05 190.3 199 WACKE GREYWACKE - Darker grey massive granular texture. Mod foliated. Drilling down bedding.

Massive in appearance with faint hazy bands/beds.

Soft readily scratched.

Upper contact is abrupt over 10 cm.

Scattered grey veins 5 cm wide generally parallel foliation.

AUL-18-05 199 225 CONG CONGLOMERATE - Light grey, strongly foliated, individual clasts flattened but readily visible.

Groundmass is granular and sericite rich.

Scattered narrow bands/beds of greywacke.

Down unit becomes more of a chlorite Schist with darker chlor frags in lighter matrix flattened

Drilling down the bedding/banding of stratigraphy low core angles.

Upper contact is gradational over 1 m.

EOH - Casing Left in Hole.

Mineralization

BHID	From	To	Qtz Veins %	Py %	Po %	Arseno %	Other	Comments	Conductors (tested with ohmeter)
AUL-18-05	0.0	32.5						Casing	
AUL-18-05	34.2	34.6	50	1					
AUL-18-05	45.5	53.5		1				Coarse py cubes	
AUL-18-05	53.5	67.0	2	0.5					
AUL-18-05	67.0	69.1	1	3				Fine Fusccsite wisps	
AUL-18-05	69.1	71.0			15			Fine grained and weak formd stringers	Rare stringers conducts poorly across core axis
AUL-18-05	71.0	78.1		1					
AUL-18-05	90.2							Coarse py cubes	
AUL-18-05	146.1		1	1				Grey Qtz Carb vein 5 cm wide	
AUL-18-05	146.8		1	1				Grey Qtz Carb vein 5 cm wide	
AUL-18-05	148.1		1	1				Grey Qtz Carb vein 5 cm wide	
AUL-18-05	148.6		1	1				Grey Qtz Carb vein 5 cm wide	
AUL-18-05	150.1		1	1				Grey Qtz Carb vein 5 cm wide	
AUL-18-05	150.5		1	1				Grey Qtz Carb vein 5 cm wide	
AUL-18-05	151.4		1	1				Grey Qtz Carb vein 5 cm wide	
AUL-18-05	152	163	5	1				Grey qtz carb veins and stringers along foliation	
AUL-18-05	179.5		1	1				Grey Qtz Carb vein 5 cm wide	
AUL-18-05	180.3		1	1				Grey Qtz Carb vein 5 cm wide	
AUL-18-05	184		1	1				Grey Qtz Carb vein 5 cm wide	
AUL-18-05	186.2		1	1				Grey Qtz Carb vein 5 cm wide	
AUL-18-05	189.9		1	1				Grey Qtz Carb vein 5 cm wide	
AUL-18-05	190.3		1	1				Grey Qtz Carb vein 5 cm wide	
AUL-18-05	192.3		1	1				Grey Qtz Carb vein 5 cm wide	
AUL-18-05	194.7		1	1				Grey Qtz Carb vein 5 cm wide	
AUL-18-05	195.1		1	1				Grey Qtz Carb vein 5 cm wide	
AUL-18-05	195.9		1	1				Grey Qtz Carb vein 5 cm wide	
AUL-18-05	198		1	1				Grey Qtz Carb vein 5 cm wide	
AUL-18-05	198.8		1	1				Grey Qtz Carb vein 5 cm wide	
AUL-18-05	199.6							Grey Qtz Carb vein 5 cm wide	
AUL-18-05	201	201.5	10	10					
AUL-18-05	204.3	205.5		0.5					
AUL-18-05	206.6							Grey Qtz Carb vein 5 cm wide	
AUL-18-05	208.1							Grey Qtz Carb vein 5 cm wide	
AUL-18-05	211.2							Grey Qtz Carb vein 5 cm wide	
AUL-18-05	212.1							Grey Qtz Carb vein 5 cm wide	
AUL-18-05	219.5							Grey Qtz Carb vein 5 cm wide	

Structure

BHID	Depth	Deg to CA	Comment	Comment
AUL-18-05	33.0	35	Foliation	Bedding/banding
AUL-18-05	42.0	25	Foliation	
AUL-18-05	47.0	40	Foliation	Fold/Flexure
AUL-18-05	48.0	20	Foliation	Fold/Flexure
AUL-18-05	49.0	10	Foliation	Fold/Flexure
AUL-18-05	50.0	35	Foliation	Fold/Flexure
AUL-18-05	52.0	30	Foliation	
AUL-18-05	54.0	25	Foliation	
AUL-18-05	57.0	25	Foliation	Bedding/banding
AUL-18-05	60.0	35	Foliation	Bedding/banding
AUL-18-05	62.0	20	Foliation	Bedding/banding
AUL-18-05	65.0	45	Foliation	Bedding/banding
AUL-18-05	67.0	40	Foliation	Contact
AUL-18-05	68.0	25	Foliation	Bedding/banding
AUL-18-05	69.0	25	Foliation	Bedding/banding
AUL-18-05	71.0	20	Foliation	Contact
AUL-18-05	72.0	15	Foliation	Bedding/banding
AUL-18-05	75.0	25	Foliation	Bedding/banding
AUL-18-05	78.0	20	Foliation	Bedding/banding
AUL-18-05	79.0	35	Foliation	Bedding/banding
AUL-18-05	80.1	25	Foliation	Bedding/banding
AUL-18-05	82.0	25	Foliation	Bedding/banding
AUL-18-05	85.0	30	Foliation	Bedding/banding
AUL-18-05	88.0	30	Foliation	Bedding/banding
AUL-18-05	92.0	30	Foliation	Bedding/banding
AUL-18-05	96.0	30	Foliation	Bedding/banding
AUL-18-05	98.0	25	Foliation	Bed/Band Fold
AUL-18-05	100.0	0	Foliation	Bed/Band Fold
AUL-18-05	101	15	Foliation	Bed/Band Fold
AUL-18-05	102.5	0	Foliation	Bed/Band Fold
AUL-18-05	110	30	Foliation	Bed/Band
AUL-18-05	119	30	Foliation	Bed/Band
AUL-18-05	123	25	Foliation	Bed/Band
AUL-18-05	126	10	Foliation	Bed/Band
AUL-18-05	128.5	10	Foliation	Bed/Band
AUL-18-05	133	25	Foliation	Bed/Band
AUL-18-05	139	30	Foliation	Bed/Band
AUL-18-05	144	20	Foliation	Bed/Band
AUL-18-05	152	10	Foliation	Bed/Band
AUL-18-05	157	10	Foliation	
AUL-18-05	158	30	Foliation	
AUL-18-05	162	35	Foliation	
AUL-18-05	168	25	Foliation	
AUL-18-05	173	30	Foliation	
AUL-18-05	179	20	Foliation	
AUL-18-05	183	35	Foliation	

Structure

AUL-18-05	187	20 Foliation	
AUL-18-05	189.5	10 Foliation	
AUL-18-05	197	15 Foliation	
AUL-18-05	201	0 Foliation	
AUL-18-05	202.5	30 Foliation	
AUL-18-05	206	15 Foliation	
AUL-18-05	212	5 Foliation	
AUL-18-05	218	15 Foliation	
AUL-18-05	221	45 Foliation	
AUL-18-05			
AUL-18-05			
AUL-18-05	60.8	Photo	Small scale fold
AUL-18-05	63.5	Photo	Small scale fold
AUL-18-05	65.6	Photo	Boundinage Qtz Vn
AUL-18-05	66.1	Photo	Boundinage Qtz Vn
AUL-18-05	79.8	Photo	Small scale fold
AUL-18-05	80.6	Photo	Folded Qtz Vn
AUL-18-05	82.4	Photo	Folded Qtz Vn
AUL-18-05	100	Photo	Fold/Flexure

MagSuscept

BHID	Depth	MS	<i>Terraplus KT-5 Magnetic Susceptibility Meter</i>
AUL-18-05	32.6	0.00	
AUL-18-05	33.0	0.00	
AUL-18-05	36.0	0.00	
AUL-18-05	39.5	0.09	
AUL-18-05	40.0	0.20	
AUL-18-05	43.0	0.21	
AUL-18-05	45.0	0.23	
AUL-18-05	48.0	0.27	
AUL-18-05	51.0	0.30	
AUL-18-05	52.0	0.00	
AUL-18-05	53.5	0.44	
AUL-18-05	56.0	0.14	
AUL-18-05	57.5	0.43	
AUL-18-05	59.0	0.50	
AUL-18-05	60.5	0.42	
AUL-18-05	63.0	1.62	
AUL-18-05	65.0	0.48	
AUL-18-05	67.0	0.00	
AUL-18-05	68.0	0.32	
AUL-18-05	69.0	0.23	
AUL-18-05	69.2	0.64	
AUL-18-05	70.0	0.62	
AUL-18-05	71.5	0.56	
AUL-18-05	73.0	0.37	
AUL-18-05	76.0	0.31	
AUL-18-05	78.0	0.84	
AUL-18-05	79.1	0.82	
AUL-18-05	79.8	0.66	
AUL-18-05	80.0	0.80	
AUL-18-05	81.1	0.57	
AUL-18-05	82.0	0.65	
AUL-18-05	83.5	0.00	
AUL-18-05	85.5	0.64	
AUL-18-05	86.5	0.01	
AUL-18-05	87.0	0.09	
AUL-18-05	87.5	0.28	
AUL-18-05	88.0	0.78	
AUL-18-05	88.1	0.90	
AUL-18-05	89.0	0.08	
AUL-18-05	90.2	0.30	
AUL-18-05	91.0	0.25	
AUL-18-05	91.5	0.67	
AUL-18-05	92.5	0.75	
AUL-18-05	93.0	2.30	
AUL-18-05	94.0	0.86	
AUL-18-05	95.0	0.31	

MagSuscept

AUL-18-05	96.0	0.40
AUL-18-05	97.0	0.25
AUL-18-05	98.0	0.34
AUL-18-05	100.0	0.14
AUL-18-05	101	0.32
AUL-18-05	102	0.46
AUL-18-05	105	0.51
AUL-18-05	109	0.06
AUL-18-05	110.5	0.59
AUL-18-05	113	0.12
AUL-18-05	117	0
AUL-18-05	120	0.08
AUL-18-05	124	0.29
AUL-18-05	128	0.41
AUL-18-05	132	0.26
AUL-18-05	137	0.62
AUL-18-05	138	1.8
AUL-18-05	139	0.4
AUL-18-05	143	0.12
AUL-18-05	147	0
AUL-18-05	153	0.23
AUL-18-05	159	0.21
AUL-18-05	168	0.25
AUL-18-05	175	0.51
AUL-18-05	177	0.17
AUL-18-05	180	0
AUL-18-05	186	0.29
AUL-18-05	189	0.2
AUL-18-05	196	0.12
AUL-18-05	200	0
AUL-18-05	203	0.05
AUL-18-05	204	0.43
AUL-18-05	205	0.12
AUL-18-05	210	0.22
AUL-18-05	217	0.02
AUL-18-05	220	0.31
AUL-18-05	221	0.65

RQD

BHID	From	To	Recovery	RQD	Comments
AUL-18-05	0	32.5			Overburden
AUL-18-05	32.5	36.0	1.5	0.3	
AUL-18-05	36.0	39.0	1.0	0.1	
AUL-18-05	39.0	42.0	1.6	0.2	
AUL-18-05	42.0	45.0	2.9	1.2	
AUL-18-05	45.0	48.0	3.0	1.5	
AUL-18-05	48.0	51.0	3.0	2.7	
AUL-18-05	51.0	54.0	2.9	2.5	
AUL-18-05	54.0	57.0	2.9	1.0	
AUL-18-05	57.0	60.0	2.9	1.1	
AUL-18-05	60.0	63.0	2.9	1.8	
AUL-18-05	63.0	66.0	3.0	2.7	
AUL-18-05	66.0	69.0	3.0	2.7	
AUL-18-05	69.0	72.0	3.0	2.1	
AUL-18-05	72.0	75.0	3.0	2.9	
AUL-18-05	75.0	78.0	3.0	2.8	
AUL-18-05	78.0	81.0	2.9	0.8	
AUL-18-05	81.0	84.0	3.0	2.7	
AUL-18-05	84.0	87.0	3.0	2.8	
AUL-18-05	87.0	90.0	3.0	2.1	
AUL-18-05	90.0	93.0	2.9	1.0	
AUL-18-05	93.0	96.0	3.0	2.4	
AUL-18-05	96.0	99.0	3.0	2.8	
AUL-18-05	99.0	102.0	3.0	2.9	
AUL-18-05	102.0	105.0	3.0	2.8	
AUL-18-05	105.0	108.0	2.9	2.0	
AUL-18-05	108.0	111.0	2.9	1.5	
AUL-18-05	111.0	114.0	3.0	2.1	
AUL-18-05	114.0	117.0	3.0	2.1	
AUL-18-05	117.0	120.0	2.9	1.0	
AUL-18-05	120.0	123.0	2.9	1.1	
AUL-18-05	123.0	126.0	3.0	2.8	
AUL-18-05	126.0	129.0	2.9	1.0	
AUL-18-05	129.0	132.0	3.0	2.9	
AUL-18-05	132.0	135.0	3.0	2.6	
AUL-18-05	135.0	138.0	3.0	2.9	
AUL-18-05	138.0	141.0	3.0	2.9	
AUL-18-05	141.0	144.0	3.0	2.9	
AUL-18-05	144.0	147.0	3.0	2.7	
AUL-18-05	147.0	150.0	3.0	2.9	
AUL-18-05	150.0	153.0	3.0	2.9	
AUL-18-05	153.0	156.0	3.0	3.0	
AUL-18-05	156.0	159.0	3.0	2.9	
AUL-18-05	159.0	162.0	3.0	2.8	
AUL-18-05	162.0	165.0	3.0	2.9	
AUL-18-05	165.0	168.0	3.0	3.0	

RQD

AUL-18-05	168.0	171.0	3.0	3.0
AUL-18-05	171.0	174.0	3.0	2.8
AUL-18-05	174.0	177.0	3.0	2.8
AUL-18-05	177.0	180.0	3.0	2.9
AUL-18-05	180.0	183.0	3.0	2.8
AUL-18-05	183.0	186.0	3.0	2.6
AUL-18-05	186.0	189.0	3.0	2.9
AUL-18-05	189.0	192.0	3.0	2.9
AUL-18-05	192.0	195.0	3.0	3.0
AUL-18-05	195.0	198.0	3.0	3.0
AUL-18-05	198.0	201.0	3.0	3.0
AUL-18-05	201.0	204.0	3.0	2.8
AUL-18-05	204.0	207.0	3.0	2.8
AUL-18-05	207.0	210.0	3.0	3.0
AUL-18-05	210.0	213.0	3.0	3.0
AUL-18-05	213.0	216.0	3.0	3.0
AUL-18-05	216.0	219.0	3.0	2.7
AUL-18-05	219.0	222.0	3.0	2.6

Reflex

BHID	Depth	Az	Az Correct	Dip	Mag Field	Use Az	Use Dip	Comments
AUL-18-05	54.0	228.6	216.1	-49.4	16405.0	N	Y	Az and Mag field Off
AUL-18-05	105.0	195.8	183.3	-49.8	55973.0	Y	Y	
AUL-18-05	156.0	195.8	183.3	-49.8	55597.0	Y	Y	
AUL-18-05	207.0	195.1	182.6	-49.0	55400.0	Y	Y	
AUL-18-05	225.0	194.9	182.4	-48.7	56235.0	Y	Y	

Samples

BHID	Sample	From	To	Width	Stand/blank	QV %	Py%	Po%	Other	Wgt kg	Au ppm
AUL-18-05	1701905	32.5	34.0	1.5						1701905 Drill Core	3.58 0.005
AUL-18-05	1701906	34.0	35.0	1.0						1701906 Drill Core	1.35 0.007
AUL-18-05	1701907	35.0	36.5	1.5						1701907 Drill Core	1.64 0.025
AUL-18-05	1701908	36.5	38.0	1.5						1701908 Drill Core	0.95 <0.005
AUL-18-05	1701909	38.0	39.5	1.5						1701909 Drill Core	1.28 0.009
AUL-18-05	1701910	39.5	41.0	1.5						1701910 Drill Core	1.11 0.005
AUL-18-05	1701911	41.0	42.5	1.5						1701911 Drill Core	1.98 0.006
AUL-18-05	1701912	42.5	44.0	1.5						1701912 Drill Core	2.47 <0.005
AUL-18-05	1701913	44.0	45.5	1.5						1701913 Drill Core	3.34 0.009
AUL-18-05	1701914	45.5	47.0	1.5						1701914 Drill Core	3.06 0.006
AUL-18-05	1701915	47.0	48.5	1.5						1701915 Drill Core	3.23 <0.005
AUL-18-05	1701916	48.5	50.0	1.5						1701916 Drill Core	3.29 0.005
AUL-18-05	1701917	50.0	51.5	1.5						1701917 Drill Core	3.2 0.151
AUL-18-05	1701918	51.5	52.5	1.0						1701918 Drill Core	1.89 0.009
AUL-18-05	1701919	52.5	53.5	1.0						1701919 Drill Core	1.81 0.02
AUL-18-05	1701920					217				1701920 Rock Pulp	0.07 0.331
AUL-18-05	1701921	53.5	55.0	1.5						1701921 Drill Core	3.1 0.307
AUL-18-05	1701922	55.0	56.5	1.5						1701922 Drill Core	2.64 0.007
AUL-18-05	1701923	56.5	58.0	1.5						1701923 Drill Core	2.6 0.006
AUL-18-05	1701924	58.0	59.0	1.0						1701924 Drill Core	2.32 <0.005
AUL-18-05	1701925				blank					1701925 Rock	0.16 <0.005
AUL-18-05	1701926	59.0	60.0	1.0						1701926 Drill Core	1.94 0.006
AUL-18-05	1701927	60.0	61.0	1.0						1701927 Drill Core	1.88 0.014
AUL-18-05	1701928	61.0	62.0	1.0						1701928 Drill Core	1.76 0.007
AUL-18-05	1701929	62.0	63.0	1.0						1701929 Drill Core	2.38 0.008
AUL-18-05	1701930	63.0	64.0	1.0						1701930 Drill Core	2.32 0.008
AUL-18-05	1701931	64.0	65.0	1.0						1701931 Drill Core	2.1 0.008
AUL-18-05	1701932	65.0	66.0	1.0						1701932 Drill Core	2.42 0.008
AUL-18-05	1701933	66.0	67.0	1.0			0.5			1701933 Drill Core	2.14 0.008
AUL-18-05	1701934	67.0	68.0	1.0		0.5	2	3-5%		1701934 Drill Core	2.49 0.012
AUL-18-05	1701935					216				1701935 Rock Pulp	0.04 6.406
AUL-18-05	1701936	68.0	69.1	1.1		0.5	2	3-5%		1701936 Drill Core	2.78 0.149
AUL-18-05	1701937	69.1	70.0	0.9		1	15			1701937 Drill Core	2.25 1.558
AUL-18-05	1701938	70.0	71.0	1.0		1	15			1701938 Drill Core	1.94 0.672
AUL-18-05	1701939	71.0	72.0	1.0			0.5			1701939 Drill Core	2.03 0.056
AUL-18-05	1701940	72.0	73.0	1.0			0.5			1701940 Drill Core	2.29 <0.005
AUL-18-05	1701941	73.0	74.0	1.0						1701941 Drill Core	2.4 <0.005
AUL-18-05	1701942	74.0	75.0	1.0						1701942 Drill Core	2.29 0.007
AUL-18-05	1701943	75.0	76.0	1.0						1701943 Drill Core	2.32 0.006
AUL-18-05	1701944	76.0	77.0	1.0						1701944 Drill Core	2.34 0.009
AUL-18-05	1701945					217				1701945 Rock Pulp	0.06 0.335
AUL-18-05	1701946	77.0	78.1	1.1						1701946 Drill Core	2.69 <0.005

Samples

AUL-18-05	1701947	78.1	79.0	0.9		1701947 Drill Core	2.09	0.008
AUL-18-05	1701948	79.0	80.0	1.0		1701948 Drill Core	2.15	0.008
AUL-18-05	1701949	80.0	81.0	1.0		1701949 Drill Core	2.28	0.006
AUL-18-05	1701950				blank	1701950 Rock	0.15	<0.005
AUL-18-05	1701951	81.0	82.0	1.0		1701951 Drill Core	2.46	<0.005
AUL-18-05	1701952	82.0	83.2	1.2		1701952 Drill Core	2.89	<0.005
AUL-18-05	1701953	83.2	84.0	0.8		1701953 Drill Core	1.92	<0.005
AUL-18-05	1701954	84.0	85.0	1.0		1701954 Drill Core	2.32	0.006
AUL-18-05	1701955	85.0	86.0	1.0		1701955 Drill Core	2.04	0.05
AUL-18-05	1701956	86.0	87.0	1.0		1701956 Drill Core	2.12	0.114
AUL-18-05	1701957	87.0	88.0	1.0		1701957 Drill Core	2.21	0.335
AUL-18-05	1701958	88.0	89.0	1.0		1701958 Drill Core	2.19	0.034
AUL-18-05	1701959	89.0	90.2	1.2		1701959 Drill Core	2.87	<0.005
AUL-18-05	1701960	90.2	91.5	1.3		1701960 Drill Core	2.42	<0.005
AUL-18-05	1701961	91.5	93.0	1.5		1701961 Drill Core	3.21	<0.005
AUL-18-05	1701962	93.0	94.5	1.5		1701962 Drill Core	3.24	<0.005
AUL-18-05	1701963	94.5	96.0	1.5		1701963 Drill Core	3.75	0.009
AUL-18-05	1701964	96.0	97.5	1.5		1701964 Drill Core	3.28	0.005
AUL-18-05	1701965	97.5	99.0	1.5		1701965 Drill Core	3.11	<0.005
AUL-18-05	1701966	99.0	100.5	1.5		1701966 Drill Core	3.22	<0.005
AUL-18-05	1701967	100.5	102.0	1.5		1701967 Drill Core	3.15	0.007
AUL-18-05	1701968	102.0	103.5	1.5		1701968 Drill Core	3.68	0.008
AUL-18-05	1701969	103.5	105.0	1.5		1701969 Drill Core	3.08	<0.005
AUL-18-05	1701970				217	1701970 Rock Pulp	0.09	0.348
AUL-18-05	1701971	105.0	106.5	1.5		1701971 Drill Core	3.38	<0.005
AUL-18-05	1701972	106.5	108.0	1.5		1701972 Drill Core	3.02	<0.005
AUL-18-05	1701973	108.0	109.5	1.5		1701973 Drill Core	3.13	<0.005
AUL-18-05	1701974	109.5	111.0	1.5		1701974 Drill Core	2.86	<0.005
AUL-18-05	1701975				blank	1701975 Rock	0.14	<0.005
AUL-18-05	1701976	111.0	112.5	1.5		1701976 Drill Core	3.2	<0.005
AUL-18-05	1701977	112.5	114.0	1.5		1701977 Drill Core	3.1	0.008
AUL-18-05	1701978	114.0	115.5	1.5		1701978 Drill Core	3.35	<0.005
AUL-18-05	1701979	115.5	117.0	1.5		1701979 Drill Core	3.24	<0.005
AUL-18-05	1701980	117.0	118.5	1.5		1701980 Drill Core	3.64	<0.005
AUL-18-05	1701981	118.5	120.0	1.5		1701981 Drill Core	2.69	<0.005
AUL-18-05	1701982	120.0	121.5	1.5		1701982 Drill Core	2.43	<0.005
AUL-18-05	1701983	121.5	123.0	1.5		1701983 Drill Core	3.07	0.009
AUL-18-05	1701984	123.0	124.5	1.5		1701984 Drill Core	3.35	<0.005
AUL-18-05	1701985				216	1701985 Rock Pulp	0.04	6.241
AUL-18-05	1701986	124.5	126.0	1.5		1701986 Drill Core	3.33	0.008
AUL-18-05	1701987	126.0	127.5	1.5		1701987 Drill Core	3.42	<0.005
AUL-18-05	1701988	127.5	129.0	1.5		1701988 Drill Core	2.86	<0.005
AUL-18-05	1701989	129.0	130.5	1.5		1701989 Drill Core	3.16	<0.005

Samples

AUL-18-05	1701990	130.5	132.0	1.5		1701990 Drill Core	3.37	<0.005
AUL-18-05	1701991	132.0	133.5	1.5		1701991 Drill Core	3.54	<0.005
AUL-18-05	1701992	133.5	135.0	1.5		1701992 Drill Core	3.66	0.013
AUL-18-05	1701993	135.0	136.5	1.5		1701993 Drill Core	3.33	0.078
AUL-18-05	1701994	136.5	137.7	1.2		1701994 Drill Core	2.68	<0.005
AUL-18-05	1701995				217	1701995 Rock Pulp	0.07	0.344
AUL-18-05	1701996	137.7	139.0	1.3		1701996 Drill Core	2.87	<0.005
AUL-18-05	1701997	139.0	140.5	1.5		1701997 Drill Core	3	<0.005
AUL-18-05	1701998	140.5	142.0	1.5		1701998 Drill Core	3.31	<0.005
AUL-18-05	1701999	142.0	143.5	1.5		1701999 Drill Core	3.45	<0.005
AUL-18-05	1702000				blank	1702000 Rock	0.14	0.005
AUL-18-05	1702001	143.5	145.0	1.5		1702001 Drill Core	3.18	0.009
AUL-18-05	1702002	145.0	146.0	1.0		1702002 Drill Core	2.76	<0.005
AUL-18-05	1702003	146.0	147.0	1.0		1702003 Drill Core	1.76	<0.005
AUL-18-05	1702004	147.0	148.0	1.0		1702004 Drill Core	2.08	<0.005
AUL-18-05	1702005	148.0	149.0	1.0		1702005 Drill Core	2.36	0.009
AUL-18-05	1702006	149.0	150.0	1.0		1702006 Drill Core	2.18	0.011
AUL-18-05	1702007	150.0	151.0	1.0		1702007 Drill Core	2	0.007
AUL-18-05	1702008	151.0	152.0	1.0		1702008 Drill Core	2.7	<0.005
AUL-18-05	1702009	152.0	152.0	0.0		1702009 Drill Core	2.56	<0.005
AUL-18-05	1702010	152.0	154.0	2.0		1702010 Drill Core	1.78	<0.005
AUL-18-05	1702011	154.0	155.0	1.0		1702011 Drill Core	2.57	<0.005
AUL-18-05	1702012	155.0	156.0	1.0		1702012 Drill Core	2.48	0.074
AUL-18-05	1702013	156.0	157.0	1.0		1702013 Drill Core	2.29	0.01
AUL-18-05	1702014	157.0	158.0	1.0		1702014 Drill Core	2.3	<0.005
AUL-18-05	1702015	158.0	159.0	1.0		1702015 Drill Core	1.96	0.018
AUL-18-05	1702016	159.0	160.0	1.0		1702016 Drill Core	2.35	<0.005
AUL-18-05	1702017	160.0	161.0	1.0		1702017 Drill Core	2.5	0.049
AUL-18-05	1702018	161.0	162.0	1.0		1702018 Drill Core	2.61	0.045
AUL-18-05	1702019	162.0	163.0	1.0		1702019 Drill Core	2.34	<0.005
AUL-18-05	1702020				217	1702020 Rock Pulp	0.07	0.319
AUL-18-05	1702021	163.0	164.0	1.0		1702021 Drill Core	2.26	<0.005
AUL-18-05	1702022	164.0	165.0	1.0		1702022 Drill Core	2.46	0.041
AUL-18-05	1702023	165.0	166.0	1.0		1702023 Drill Core	2.15	0.022
AUL-18-05	1702024	166.0	167.0	1.0		1702024 Drill Core	2.41	0.009
AUL-18-05	1702025				blank	1702025 Rock	0.21	<0.005
AUL-18-05	1702026	167.0	168.0	1.0		1702026 Drill Core	2.34	0.01
AUL-18-05	1702027	168.0	169.0	1.0		1702027 Drill Core	2.24	0.015
AUL-18-05	1702028	169.0	170.0	1.0		1702028 Drill Core	2.08	0.007
AUL-18-05	1702029	170.0	171.5	1.5		1702029 Drill Core	3.65	0.034
AUL-18-05	1702030	171.5	173.0	1.5		1702030 Drill Core	3.09	0.05
AUL-18-05	1702031	173.0	174.5	1.5		1702031 Drill Core	2.75	<0.005
AUL-18-05	1702032	174.5	176.0	1.5		1702032 Drill Core	3.28	<0.005

Samples

AUL-18-05	1702033	176.0	177.5	1.5		1702033	Drill Core	3.39	<0.005
AUL-18-05	1702034	177.5	179.0	1.5		1702034	Drill Core	3.43	<0.005
AUL-18-05	1702035				216	1702035	Rock Pulp	0.06	6.22
AUL-18-05	1702036	179.0	180.5	1.5		1702036	Drill Core	3.73	0.039
AUL-18-05	1702037	180.5	182.0	1.5		1702037	Drill Core	3.87	0.044
AUL-18-05	1702038	182.0	183.5	1.5		1702038	Drill Core	3.24	0.009
AUL-18-05	1702039	183.5	185.0	1.5		1702039	Drill Core	3.79	0.021
AUL-18-05	1702040	185.0	186.5	1.5		1702040	Drill Core	3.24	0.047
AUL-18-05	1702041	186.5	188.0	1.5		1702041	Drill Core	3.23	0.37
AUL-18-05	1702042	188.0	189.5	1.5		1702042	Drill Core	4.26	0.05
AUL-18-05	1702043	189.5	190.3	0.8		1702043	Drill Core	1.87	0.077
AUL-18-05	1702044	190.3	191.5	1.2		1702044	Drill Core	2.4	0.005
AUL-18-05	1702045				217	1702045	Rock Pulp	0.05	0.321
AUL-18-05	1702046	191.5	193.0	1.5		1702046	Drill Core	4.27	<0.005
AUL-18-05	1702047	193.0	194.5	1.5		1702047	Drill Core	3.13	<0.005
AUL-18-05	1702048	194.5	196.0	1.5		1702048	Drill Core	4.42	0.022
AUL-18-05	1702049	196.0	197.5	1.5		1702049	Drill Core	3.39	0.008
AUL-18-05	1702050				blank	1702050	Rock	0.2	<0.005
AUL-18-05	1702051	197.5	199.0	1.5		1702051	Drill Core	3.17	0.007
AUL-18-05	1702052	199.0	200.5	1.5		1702052	Drill Core	3.86	0.011
AUL-18-05	1702053	200.5	202.0	1.5		1702053	Drill Core	3.34	0.009
AUL-18-05	1702054	202.0	203.5	1.5		1702054	Drill Core	3.14	<0.005
AUL-18-05	1702055	203.5	205.0	1.5		1702055	Drill Core	3.56	0.157
AUL-18-05	1702056	205.0	206.5	1.5		1702056	Drill Core	3.16	0.071
AUL-18-05	1702057	206.5	208.0	1.5		1702057	Drill Core	3.23	0.038
AUL-18-05	1702058	208.0	209.5	1.5		1702058	Drill Core	3.39	0.029
AUL-18-05	1702059	209.5	211.0	1.5		1702059	Drill Core	3.3	0.034
AUL-18-05	1702060	211.0	212.5	1.5		1702060	Drill Core	2.27	0.061
AUL-18-05	1702061	212.5	214.0	1.5		1702061	Drill Core	4.23	0.153
AUL-18-05	1702062	214.0	215.5	1.5		1702062	Drill Core	3.06	0.089
AUL-18-05	1702063	215.5	217.0	1.5		1702063	Drill Core	3.04	0.021
AUL-18-05	1702064	217.0	218.5	1.5		1702064	Drill Core	3.15	0.011
AUL-18-05	1702065	218.5	220.0	1.5		1702065	Drill Core	3.56	0.006
AUL-18-05	1702066	220.0	221.0	1.0		1702066	Drill Core	2.14	0.009
AUL-18-05	1702067	221.0	222.0	1.0		1702067	Drill Core	2.19	<0.005
AUL-18-05	1702068	222.0	225.0	3.0		1702068	Drill Core	6.48	<0.005

Header

DDH ID	AUL-18-06						
	Claim #	East	North	Az	Dip	EOH (m)	(Nad 83)
Location	3019086	592280	5483180	180	-45	126.0	
Purpose	Test the shallow eastern portion of the Mikwam Deposit.						
Start date	March XX, 2018						
End date	March XX,2018						
Drill Contractor	NPLH						
Logged By	T.Keast						
Comments	Rods jammed in hole at 126.0m. X rods left in hole						

Description

BHID	From	To	Litho	Comment
AUL-18-06	0	57.5	CAS	Casing through overburden
AUL-18-06	57.5	64.5	SERALT	<p>Sericite Alteration Zone - Possible altered conglomerate. Light grey to white sericite quartz unit complete alteration of existing rock unit.</p> <p>Distinct cleavage is low angle to core axis yet not readily identified. Fine grained light appearance, Sericite is not flakey or medium grained, fine dense appearance. Local intervals with green chlorite looking spots and 1-2 cm flattened spots, possible flattened clasts of conglomerate. Tr py in fine rare <1mm grain and rare 3mm cube.</p>
AUL-18-06	64.5	69	FAULT	<p>Fault Zone? - Interval of broken blocky core with several m of missing core. Low core angles, fault breccia looking material and scattered qtz veins. Broken pieces of rubble core of sericite altered unit above mixing downhole with black argillite core pieces. Unit strongly foliated. Unit is readily scratched.</p> <p>Upper contact is poorly defined blocky core.</p>
AUL-18-06	69.0	73.9	ARGblk	<p>ARGILLITE Black- Dark black distinctively banded/strong foliation. Low core angle to core axis. Broken blocky sections possibly related to Fault above? Narrow brecciated intervals, fault breccia?</p> <p>Fine grains and weak discontinuous carb stringers going orange in color.</p> <p>Fine dissem py and scattered rare stringers. 1% with brown limonitic stringers Soft readily scratched, sooty on fingers.</p> <p>Upper contact is poorly defined, broken blocky core.</p>

Description

AUL-18-06	73.9	87.9	<p>MINERALIZED ZONE - Distinct Grey to White zone of Quartz Vein. Predominantly all vein with scattered narrow intervals containing xenoliths of sericite schist within the veins.</p> <p>Not a stockwork of veins but single vein and vein breccia. Pervasive vuggy texture throughout, of py with limonite/hematite oxidation.</p> <p>73.9 - 75.9 Quartz vein is white with 50% black fine tourmaline in masses and filling vein breccia. Py rare.</p> <p>75.9 - 81.5 Quartz Vein is grey mottled with <5% tourmaline in stringers. 5-10% fine py in stringers and fine disseminations.</p> <p>Stringers are distinctly all vuggy and pitted. Stringers, patches crude foliation. Pitted py stringers weak to moderate conductor along core axis</p> <p>At 77.5 distinct 10 cm wide section of reddish brown hematite/limonite stringers. Somewhat similar in appearance to sphalerite with distinct oxidized brown when scratched.</p> <p>81.5 - 86.4 Quartz Vein is white in color mottled with 5-7% fine py in stringers and disseminations. Distinct xenoliths of light buff sericite rich wallrock.</p> <p>86.4 - 87.5 Bleached altered sericite rich unit with 40% qtz veins.</p> <p>Arsenopyrite not identified in this zone. Core was checked twice.</p> <p>Upper contact is sharp however contact is broken and blocky.</p>
AUL-18-06	87.9	111.6	<p>INTRUSIVE - Medium Grained- Light color medium grained massive unit. Distinct 1mm round to weakly ovoid qtz eyes in dense qtz sericite groundmass.</p> <p>The qtz eyes are grey. Distinct weak foliation.</p> <p>Fine grained biotite 1mm evenly distributed give the unit a massive spotted appearance.</p> <p>Could be interpreted as an intrusion with the sharp contact and massive appearance.</p> <p>Unit is hard but just able to take a scratch</p> <p>95.8 - 98.0 interval of moderate foliation with 15-20% qtz veins. Veins along a moderate foliation</p> <p>py low 1% in rare grain out of vein. Some veins discontinuous patches. Veins are white vuggy.</p>

Description

Biotite seems to decrease down unit as does grain size,

Sharp upper contact at 60 deg to CA. Very abrupt, not a typical chill contact.

AUL-18-06	111.6	126 WACKE	<p>GREYWACKE - Light buff, strong foliation, distinct bands/beds. Margins of the bands are faint but distinct.</p> <p>Unit progresses to medium grey green color going down unit, with banding of lighter and darker units throughout.</p> <p>Strong foliation. Granular gritty groundmass and distinct banding bedding supports wacke.</p> <p>Unit is readily scratched.</p> <p>Upper contact is based on abrupt change from light to dark color and minor shearing.</p> <p>EOH 126.0 Rods jammed in hole</p>
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Mineralization

BHID	From	To	Qtz Veins %	Py %	Po %	Arseno %	Other	Comments	Conductors (tested with ohmeter)
AUL-18-06	0.0	57.5						Casing	
AUL-18-06	57.5	64.5		0.5				Fine rare grain and rare cube.	
AUL-18-06	64.5	69.0							
AUL-18-06	69.0	73.9		0.5				Limonic stringers 1%	Not conductive
AUL-18-06	73.9	75.9	95	0.5				50% fine tourmaline masses and stringers	
AUL-18-06	75.9	81.5	100	10			Py vuggy	Grey Mottled veins, 10% py, @77,5 limomitic stringers.	Py conduct weakly to moderate over 5 cm along core axis
AUL-18-06	81.5	86.4	100	7			Py vuggy	White mottled vein 7% py rare	Py conduct weakly to moderate over 5 cm along core axis
AUL-18-06	86.4	87.9	40	5				limotie stringer	
AUL-18-06	87.9	95.8	0.5	0.5					
AUL-18-06	95.8	98.0	15	0.5				Fine rare dissem	

Structure

BHID	Depth	Deg to CA	Comment	Comment
AUL-18-06	57.5			57.5-62.5 No reliable mesuements
AUL-18-06	62.5	20	Foliation	Banding
AUL-18-06	64.0	5	Foliation	Banding
AUL-18-06	65.0	5	Foliation	Brecciated QV
AUL-18-06	69.0	10	Foliation	
AUL-18-06	72.0	10	Foliation	
AUL-18-06	78.0	20	Foliation	Vein Breccia
AUL-18-06	81.0	35	Foliation	Vein Breccia
AUL-18-06	82.0	40	Foliation	Sericite Xenolith
AUL-18-06	86.0	60	Foliation	Py stringer
AUL-18-06	86.5	50	Foliation	
AUL-18-06	87.9	60	Contact	
AUL-18-06	90.0	50	Foliation	
AUL-18-06	91.7	50	Foliation	Banding
AUL-18-06	95.0	35	Foliation	Bedding/banding
AUL-18-06	96.0	15	Contact	Qtz Vein
AUL-18-06	97.5	40	Foliation	Qtz Vein stringers
AUL-18-06	99.0	25	Foliation	
AUL-18-06	104.3	20	Foliation	Banding/bedding
AUL-18-06	109.0	40	Foliation	Banding/bedding
AUL-18-06	114.0	40	Foliation	Banding/bedding
AUL-18-06	120.0	50	Foliation	
AUL-18-06	123.0	60	Foliation	Banding/laminations
AUL-18-06	125.5	55	Foliation	
AUL-18-06	88.0	30	Foliation	Bedding/banding
AUL-18-06	92.0	30	Foliation	Bedding/banding
AUL-18-06	96.0	30	Foliation	Bedding/banding
AUL-18-06	98.0	25	Foliation	Bed/Band Fold
AUL-18-06	100	0	Foliation	Bed/Band Fold
AUL-18-06	101	15	Foliation	Bed/Band Fold
AUL-18-06	102.5	0	Foliation	Bed/Band Fold
AUL-18-06	110	30	Foliation	Bed/Band
AUL-18-06	119	30	Foliation	Bed/Band
AUL-18-06	123	25	Foliation	Bed/Band
AUL-18-06	126	10	Foliation	Bed/Band
AUL-18-06	128.5	10	Foliation	Bed/Band
AUL-18-06	133	25	Foliation	Bed/Band
AUL-18-06	139	30	Foliation	Bed/Band
AUL-18-06	144	20	Foliation	Bed/Band
AUL-18-06	152	10	Foliation	Bed/Band
AUL-18-06	157	10	Foliation	
AUL-18-06	158	30	Foliation	
AUL-18-06	162	35	Foliation	
AUL-18-06	168	25	Foliation	
AUL-18-06	173	30	Foliation	
AUL-18-06	179	20	Foliation	

Structure

AUL-18-06	183	35 Foliation	
AUL-18-06	187	20 Foliation	
AUL-18-06	189.5	10 Foliation	
AUL-18-06	197	15 Foliation	
AUL-18-06	201	0 Foliation	
AUL-18-06	202.5	30 Foliation	
AUL-18-06	206	15 Foliation	
AUL-18-06	212	5 Foliation	
AUL-18-06	218	15 Foliation	
AUL-18-06	221	45 Foliation	
AUL-18-06			
AUL-18-06			
AUL-18-06	60.8	Photo	Small scale fold
AUL-18-06	63.5	Photo	Small scale fold
AUL-18-06	65.6	Photo	Boundinage Qtz Vn
AUL-18-06	66.1	Photo	Boundinage Qtz Vn
AUL-18-06	79.8	Photo	Small scale fold
AUL-18-06	80.6	Photo	Folded Qtz Vn
AUL-18-06	82.4	Photo	Folded Qtz Vn
AUL-18-06	100	Photo	Fold/Flexure

MagSuscept

BHID	Depth	MS	<i>Terraplus KT-5 Magnetic Susceptibility Meter</i>
AUL-18-06	58.5	0.28	
AUL-18-06	59.5	0.84	
AUL-18-06	60.0	0.83	
AUL-18-06	63.0	0.06	
AUL-18-06	64.0	0.00	
AUL-18-06	65.0	0.00	
AUL-18-06	69.0	0.09	
AUL-18-06	70.0	0.12	
AUL-18-06	71.0	0.08	
AUL-18-06	72.0	0.13	
AUL-18-06	73.5	0.01	
AUL-18-06	74.0	0.15	
AUL-18-06	75.0	0.14	
AUL-18-06	76.0	0.00	
AUL-18-06	77.0	0.00	
AUL-18-06	78.0	0.00	
AUL-18-06	79.0	0.03	
AUL-18-06	80.0	0.00	
AUL-18-06	81.0	0.08	
AUL-18-06	82.0	0.40	
AUL-18-06	83.0	0.08	
AUL-18-06	84.0	0.00	
AUL-18-06	85.0	0.06	
AUL-18-06	86.0	0.16	
AUL-18-06	87.0	0.04	
AUL-18-06	88.0	0.04	
AUL-18-06	89.0	0.04	
AUL-18-06	90.0	0.05	
AUL-18-06	91.0	0.04	
AUL-18-06	91.5	0.05	
AUL-18-06	92.0	1.14	
AUL-18-06	93.0	0.00	
AUL-18-06	94.0	0.85	
AUL-18-06	95.0	1.96	
AUL-18-06	96.0	0.00	
AUL-18-06	96.5	0.07	
AUL-18-06	97.5	0.06	
AUL-18-06	98.0	2.01	
AUL-18-06	99.0	2.42	
AUL-18-06	100.0	0.96	
AUL-18-06	101.0	2.07	
AUL-18-06	102.0	2.35	
AUL-18-06	103.0	0.05	
AUL-18-06	104.0	0.17	
AUL-18-06	105.0	0.18	
AUL-18-06	106.0	0.11	

MagSuscept

AUL-18-06	107.0	1.08
AUL-18-06	108.0	2.18
AUL-18-06	109.0	1.16
AUL-18-06	110.0	0.00
AUL-18-06	111	0.41
AUL-18-06	112	0.45
AUL-18-06	113	3.11
AUL-18-06	114	3.71
AUL-18-06	115	2.07
AUL-18-06	116	1.05
AUL-18-06	117	1.12
AUL-18-06	118	2.31
AUL-18-06	119	0.85
AUL-18-06	120	0.23
AUL-18-06	121	1.44
AUL-18-06	122	0.4
AUL-18-06	123	0.56
AUL-18-06	124	0.22
AUL-18-06	125	0.06
AUL-18-06	126	0.24

RQD

BHID	From	To	Recovery	RQD	Comments
AUL-18-06	0	57.5			Overburden
AUL-18-06	57.5	60.0	2.5	2.5	
AUL-18-06	60.0	63.0	1.4	0.9	
AUL-18-06	63.0	66.0	1.7	0.8	
AUL-18-06	66.0	69.0	0.5	0.1	
AUL-18-06	69.0	72.0	2.9	2.0	
AUL-18-06	72.0	75.0	2.9	1.7	
AUL-18-06	75.0	78.0	3.0	2.7	
AUL-18-06	78.0	81.0	3.0	2.6	
AUL-18-06	81.0	84.0	3.0	2.6	
AUL-18-06	84.0	87.0	3.0	2.7	
AUL-18-06	87.0	90.0	3.0	2.8	
AUL-18-06	90.0	93.0	3.0	3.0	
AUL-18-06	93.0	96.0	3.0	2.9	
AUL-18-06	96.0	99.0	3.0	2.7	
AUL-18-06	99.0	102.0	3.0	2.9	
AUL-18-06	102.0	105.0	3.0	2.9	
AUL-18-06	105.0	108.0	3.0	2.7	
AUL-18-06	108.0	111.0	3.0	2.8	
AUL-18-06	111.0	114.0	3.0	2.7	
AUL-18-06	114.0	117.0	3.0	2.9	
AUL-18-06	117.0	120.0	3.0	2.9	
AUL-18-06	120.0	123.0	3.0	2.9	
AUL-18-06	123.0	126.0	3.0	3.0	

Reflex

BHID	Depth	Az	Az Correct	Dip	Mag Field	Use Az	Use Dip	Comments
AUL-18-06	???	191.3	178.8	-45.3	56153.0			No depth on sheet
AUL-18-06	123.0	191.1	178.6	-44.8	55741.0			

Samples

BHID	Sample	From	To	Width	Stand/blank	QV %	Py%	Hem ⁹	Other	Wgt kg	Au ppm
AUL-18-06	1702069	57.5	58.5	1.0						1702069 Drill Core	1.85 <0.005
AUL-18-06	1702070									1702070 Rock Pulp	0.08 0.332
AUL-18-06	1702071	58.5	59.5	1.0						1702071 Drill Core	1.65 <0.005
AUL-18-06	1702072	59.5	60.5	1.0						1702072 Drill Core	2.1 <0.005
AUL-18-06	1702073	60.5	62.5	2.0						1702073 Drill Core	1.3 <0.005
AUL-18-06	1702074	62.5	63.5	1.0						1702074 Drill Core	1.56 0.005
AUL-18-06	1702075				blank					1702075 Rock	0.14 <0.005
AUL-18-06	1702076	63.5	64.5	1.0						1702076 Drill Core	2.15 0.005
AUL-18-06	1702077	64.5	65.5	1.0						1702077 Drill Core	1.42 0.007
AUL-18-06	1702078	65.5	68.0	2.5						1702078 Drill Core	1.15 0.006
AUL-18-06	1702079	68.0	69.0	1.0						1702079 Drill Core	1.16 0.012
AUL-18-06	1702080	69.0	70.5	1.5						1702080 Drill Core	2.58 0.031
AUL-18-06	1702081	70.5	72.0	1.5						1702081 Drill Core	3.12 0.026
AUL-18-06	1702082	72.0	73.0	1.0						1702082 Drill Core	1.37 0.071
AUL-18-06	1702083	73.0	73.9	0.9						1702083 Drill Core	1.1 0.098
AUL-18-06	1702084	73.9	75.0	1.1		100	3			1702084 Drill Core	2.43 0.295
AUL-18-06	1702085									1702085 Rock Pulp	0.06 6.445
AUL-18-06	1702086	75.0	75.9	0.9		100	3			1702086 Drill Core	1.97 0.446
AUL-18-06	1702087	75.9	77.0	1.1		100	5	3		1702087 Drill Core	2.21 0.104
AUL-18-06	1702088	77.0	78.0	1.0		100	3	10		1702088 Drill Core	1.95 0.12
AUL-18-06	1702089	78.0	79.0	1.0		100	5	5		1702089 Drill Core	2.13 0.721
AUL-18-06	1702090	79.0	80.0	1.0		100	10	1		1702090 Drill Core	2.11 1.735
AUL-18-06	1702091	80.0	81.0	1.0		100	5			1702091 Drill Core	1.65 0.436
AUL-18-06	1702092	81.0	82.0	1.0		100	10	1		1702092 Drill Core	1.93 0.62
AUL-18-06	1702093	82.0	83.0	1.0		100	10			1702093 Drill Core	2.34 1.025
AUL-18-06	1702094	83.0	84.0	1.0		100	10			1702094 Drill Core	2.12 1.679
AUL-18-06	1702095									1702095 Rock Pulp	0.08 0.336
AUL-18-06	1702096	84.0	85.0	1.0		100	5			1702096 Drill Core	2.28 0.771
AUL-18-06	1702097	85.0	86.0	1.0		100	3			1702097 Drill Core	2.15 1.223
AUL-18-06	1702098	86.0	87.0	1.0		100	3			1702098 Drill Core	2.46 1.285
AUL-18-06	1702099	87.0	87.9	0.9		100	3			1702099 Drill Core	2.05 0.253
AUL-18-06	1702100				blank					1702100 Rock	0.13 <0.005
AUL-18-06	1702101	87.9	89.0	1.1						1702101 Drill Core	2.31 0.071
AUL-18-06	1702102	89.0	90.0	1.0						1702102 Drill Core	2.06 0.309
AUL-18-06	1702103	90.0	91.0	1.0						1702103 Drill Core	2.04 0.016
AUL-18-06	1702104	91.0	92.0	1.0						1702104 Drill Core	2.03 0.011
AUL-18-06	1702105	92.0	93.0	1.0						1702105 Drill Core	1.97 0.08
AUL-18-06	1702106	93.0	94.0	1.0						1702106 Drill Core	1.88 0.027
AUL-18-06	1702107	94.0	95.0	1.0						1702107 Drill Core	1.83 0.051
AUL-18-06	1702108	95.0	95.8	0.8						1702108 Drill Core	1.74 0.061
AUL-18-06	1702109	95.8	97.0	1.2						1702109 Drill Core	1.97 0.178
AUL-18-06	1702110	97.0	98.0	1.0						1702110 Drill Core	2 0.255

Samples

AUL-18-06	1702111	98.0	99.0	1.0		1702111 Drill Core	2.25	0.124
AUL-18-06	1702112	99.0	100.0	1.0		1702112 Drill Core	2.12	0.025
AUL-18-06	1702113	100.0	101.0	1.0		1702113 Drill Core	1.68	0.018
AUL-18-06	1702114	101.0	102.0	1.0		1702114 Drill Core	2.23	0.03
AUL-18-06	1702115	102.0	103.0	1.0		1702115 Drill Core	2.69	0.008
AUL-18-06	1702116	103.0	104.0	1.0		1702116 Drill Core	1.68	0.014
AUL-18-06	1702117	104.0	105.0	1.0		1702117 Drill Core	2.19	0.044
AUL-18-06	1702118	105.0	106.0	1.0		1702118 Drill Core	2.16	0.009
AUL-18-06	1702119	106.0	107.0	1.0		1702119 Drill Core	2.08	0.007
AUL-18-06	1702120				217	1702120 Rock Pulp	0.07	0.327
AUL-18-06	1702121	107.0	108.0	1.0		1702121 Drill Core	2.08	0.014
AUL-18-06	1702122	108.0	109.0	1.0		1702122 Drill Core	1.81	0.021
AUL-18-06	1702123	109.0	110.0	1.0		1702123 Drill Core	2.4	0.009
AUL-18-06	1702124	110.0	111.6	1.6		1702124 Drill Core	3.69	0.088
AUL-18-06	1702125				blank	1702125 Rock	0.22	<0.005
AUL-18-06	1702126	111.6	113.0	1.4		1702126 Drill Core	3.05	0.043
AUL-18-06	1702127	113.0	114.5	1.5		1702127 Drill Core	3.58	0.049
AUL-18-06	1702128	114.5	116.0	1.5		1702128 Drill Core	3.15	0.07
AUL-18-06	1702129	116.0	117.5	1.5		1702129 Drill Core	3.11	0.2
AUL-18-06	1702130	117.5	119.0	1.5		1702130 Drill Core	3.43	0.048
AUL-18-06	1702131	119.0	120.5	1.5		1702131 Drill Core	2.38	<0.005
AUL-18-06	1702132	120.5	122.0	1.5		1702132 Drill Core	3.29	0.011
AUL-18-06	1702133	122.0	123.5	1.5		1702133 Drill Core	2.88	0.011
AUL-18-06	1702134	123.5	125.0	1.5		1702134 Drill Core	3.19	0.008
AUL-18-06	1702135				216	1702135 Rock Pulp	0.05	6.487
AUL-18-06	1702136	125.0	126.0	1.0		1702136 Drill Core	2.38	<0.005

Header

DDH ID **AUL-18-07**

	Claim #	East	North	Az	Dip	EOH (m)	(Nad 83)
Location	3019086	592280	5483180	180	-55	108.0	

Purpose Test shallow extension of the Mikwam Deposit.

Start date March 16,2018

End date March 17,2018

Drill Contractor NPLH

Logged By T.Keast

Description

BHID	From	To	Litho	Comment
AUL-18-07	0	48.6	CAS	Casing through overburden
AUL-18-07	48.6	51.0	ARGblk	ARGILLITE Black- Dark grey, distinct banding/laminated appearance. Soft readily scratched and brecciated appearance.
AUL-18-07	51	67.6	FAULT	<p>FAULT ZONE ? - Dark black Argillite with scattered section of distinct bedding banding, however low angle foliation dominates. Numerous broken blocky sections of core, low angle fractures. Scattered sections of Qtz carb stringers in fault breccia, fault planes. Unit strongly foliated. Local fault breccia sections.</p> <p>Unit is hard just able to scratch and some sections not scratched, silicification?.</p> <p>Upper contact is poorly defined, gradational</p>
AUL-18-07	67.6	84.3	ARGblk	<p>ARGILLITE Black- Dark black distinctively banded/strong foliation. Low core angle to core axis. Strong foliation continuation of above fault zone</p> <p>Distinct light and darker bands/beds of several cm to mm lamination size. 1% scattered cubes py, and up to 3-5% in crude stringers. 1-3% Qtz carb stringers parallel to foliation.</p> <p>Upper contact is abrupt, where typical argillite bedding/banding apparent.</p>
AUL-18-07	84.3	104	MINZON	<p>MINERALIZED ZONE - Distinct Zone of Grey Quartz Veins & vein Breccia. Predominantly all brecciated and healed vein with scattered narrow intervals xenoliths of sericite/carbonate altered wallrock material within the veins. Not a stockwork of veins but single vein and vein breccia. Pervasive vuggy texture to the sulphides. Pyrite in stringers and patches with pitted vuggy texture. Rare brown hematite/limonite stringer.</p>

Description

84.3 - 87.0 Contact zone where sulphide stringers and narrow qtz vein have intruded the Argillite. Sulphide content and veins increase towards 87.0. Veins and sulphides follow low angle foliation planes. Argillite is very hard cannot be scratched.

87.0 - 104.0 Grey Quartz Vein Breccia. Py in stringers and disseminations. Light silver fine grained masses of arsenopyrite throughout.

Arsenopyrite white silver fine grained in individual grains and small 1 cm masses.

@93.0 10 1cm masses of arseno

@93.5 2 1cm cluster of arseno

@94.5 2 1 cm clustes of Arseno

@97.3 2 1cm cluster of arseno

@97.9 1 3 cm mass of arseno

@98.3-98.8 12 1-3 cm clusters of arseno

@99.2 - 100.0 5 12 cm clusters

@100 py content increases

@100.2 - 100.7 15-25 cm patch of arseno in crude band along foliation.

@101.6 4 3cm patches of arseno

@102.5 20cm patch with 1cm massive arseno clots.

Py and arseno is very conductive across core axis and along core axis for 20 cm lengths of core.

Multiple conductors. Clots of Arseno very conductive of cm size of clots.

Upper contact is gradational as veins and sulphide stringers increase.

AUL-18-07 104 108 INTRUSION ? - Light color fine to medium grained massive unit. Fine granular texture qtz grains rounded.
No biotite as in AUL-18-06. This could also be altered wacke.
15-20% white qtz veins and stringers. 1% py. Silver fine metallic mineral 1% arseno. Not magneitc

Description

Unit is hard but just able to take a scratch
Sharp increase in MS at the upper contact.

Sharp upper contact at 60 deg to CA. Very abrupt, core broken.

EOH 108.0 Rods jammed in hole

Mineralization

BHID	From	To	Qtz Veins %	Py %	Po %	Arseno %	Other	Comments	Conductors (tested with ohmeter)
AUL-18-07	0.0	48.6						Casing	
AUL-18-07	48.6	51.0							
AUL-18-07	51.0	67.6		5	2			Py in cubes, carb veins in fault breccia.	
AUL-18-07	67.6	84.3		1	0.5			Py in rare scattered cubes	
AUL-18-07	84.3	87.0		40	20			Low angle contact into the Mineralized Zone	
AUL-18-07	87.0	104.0		100	20		1 Py vuggy	Grey Mottled veins, Arseno in dissem and 1 cm clusters	Numerous Py strong conductor along py stringers.
AUL-18-07	104.0	108.0		40	2	0.25		White mottled qtz veins, stockwork. Possible fine Arseno	Possible rare po grain

Structure

BHID	Depth	Deg to CA	Comment	Comment
AUL-18-07	49.0	60	Foliation	Band/Bedding
AUL-18-07	50.0	40	Foliation	
AUL-18-07	52.0	20	Foliation	
AUL-18-07	54.0	10	Foliation	
AUL-18-07	57.0	5	Foliation	
AUL-18-07	60.0	10	Foliation	
AUL-18-07	63.0	10	Foliation	
AUL-18-07	66.0	15	Foliation	
AUL-18-07	69.0	30	Foliation	Band/Bedding
AUL-18-07	72.0	15	Foliation	Band/Bedding
AUL-18-07	75.0	15	Contact	Band/Bedding
AUL-18-07	78.0	20	Foliation	
AUL-18-07	81.0	45	Foliation	Sulphide vein stringer
AUL-18-07	82.0	5	Foliation	
AUL-18-07	84.0	20	Contact	
AUL-18-07	85.0	10	Foliation	
AUL-18-07	86.0	10	Foliation	
AUL-18-07	87.0	20	Foliation	
AUL-18-07	89.0	15	Foliation	
AUL-18-07	93.0	20	Foliation	
AUL-18-07	96.0	10	Foliation	
AUL-18-07	101.0	30	Foliation	
AUL-18-07	104.1	60	Contact	Approx broken core
AUL-18-07	104.5	45	Foliation	
AUL-18-07	105.0	35	Foliation	

MagSuscept

BHID	Depth	MS	<i>Terraplus KT-5 Magnetic Susceptibility Meter</i>
AUL-18-07	49.0	0.00	
AUL-18-07	50.0	0.00	
AUL-18-07	52.0	0.00	
AUL-18-07	53.0	0.00	
AUL-18-07	54.0	0.04	
AUL-18-07	57.0	0.00	
AUL-18-07	60.0	0.06	
AUL-18-07	63.0	0.14	
AUL-18-07	66.0	0.00	
AUL-18-07	69.0	0.00	
AUL-18-07	72.0	0.00	
AUL-18-07	75.0	0.07	
AUL-18-07	78.0	0.09	
AUL-18-07	81.0	0.00	
AUL-18-07	84.0	0.00	
AUL-18-07	85.0	0.00	
AUL-18-07	86.0	0.00	
AUL-18-07	87.0	0.05	
AUL-18-07	88.0	0.10	
AUL-18-07	89.0	0.13	
AUL-18-07	90.0	0.05	
AUL-18-07	91.0	0.03	
AUL-18-07	92.0	0.14	
AUL-18-07	93.0	0.13	
AUL-18-07	94.0	0.20	
AUL-18-07	95.0	0.13	
AUL-18-07	96.0	0.41	
AUL-18-07	97.0	0.14	
AUL-18-07	98.0	0.18	
AUL-18-07	99.0	0.29	
AUL-18-07	100.0	0.13	
AUL-18-07	101.0	0.06	
AUL-18-07	102.0	0.21	
AUL-18-07	103.0	0.20	
AUL-18-07	104.0	0.12	
AUL-18-07	104.5	2.05	
AUL-18-07	105.0	1.13	
AUL-18-07	106.0	1.73	
AUL-18-07	107.0	0.49	
AUL-18-07	108.0	0.71	

RQD

BHID	From	To	Recovery	RQD	Comments
AUL-18-07	0	48.6			Overburden
AUL-18-07	48.6	51.0	2.2	2.0	
AUL-18-07	51.0	54.0	2.1	2.0	
AUL-18-07	54.0	57.0	2.9	2.7	
AUL-18-07	57.0	60.0	2.9	2.7	
AUL-18-07	60.0	63.0	2.9	2.1	
AUL-18-07	63.0	66.0	3.0	2.8	
AUL-18-07	66.0	69.0	3.0	2.8	
AUL-18-07	69.0	72.0	3.0	3.0	
AUL-18-07	72.0	75.0	3.0	2.6	
AUL-18-07	75.0	78.0	3.0	2.5	
AUL-18-07	78.0	81.0	3.0	2.4	
AUL-18-07	81.0	84.0	3.0	2.1	
AUL-18-07	84.0	87.0	2.8	1.8	
AUL-18-07	87.0	90.0	2.9	2.1	
AUL-18-07	90.0	93.0	3.0	2.8	
AUL-18-07	93.0	96.0	3.0	2.8	
AUL-18-07	96.0	99.0	3.0	2.9	
AUL-18-07	99.0	102.0	3.0	2.9	
AUL-18-07	102.0	105.0	3.0	2.8	
AUL-18-07	105.0	108.0	3.0	3.0	

Reflex

BHID	Depth	Az	Az Correct	Dip	Mag Field	Use Az	Use Dip	Comments
AUL-18-07	60.0	195.6	183.1	-65.1	56647.0			Only test from this hole

Samples

BHID	Sample	From	To	Width	Stand/blank	QV %	Py%	Po%	Arsen Hem		Wgt kg	Au ppm	Au gt
AUL-18-07	1702137	48.6	50.0	1.4						1702137 Drill Core	2.08	0.009	
AUL-18-07	1702138	50.0	51.0	1.0						1702138 Drill Core	2.03	0.008	
AUL-18-07	1702139	51.0	52.5	1.5						1702139 Drill Core	1.14	0.007	
AUL-18-07	1702140	52.5	54.0	1.5						1702140 Drill Core	1.84	<0.005	
AUL-18-07	1702141	54.0	55.5	1.5						1702141 Drill Core	4.32	0.009	
AUL-18-07	1702142	55.5	57.0	1.5						1702142 Drill Core	3.71	0.008	
AUL-18-07	1702143	57.0	58.5	1.5						1702143 Drill Core	2.39	<0.005	
AUL-18-07	1702144	58.5	60.0	1.5						1702144 Drill Core	3.03	<0.005	
AUL-18-07	1702145					217				1702145 Rock Pulp	0.04	6.486	
AUL-18-07	1702146	60.0	61.5	1.5						1702146 Drill Core	2.65	<0.005	
AUL-18-07	1702147	61.5	63.0	1.5						1702147 Drill Core	3.34	<0.005	
AUL-18-07	1702148	63.0	64.5	1.5						1702148 Drill Core	3.13	<0.005	
AUL-18-07	1702149	64.5	66.0	1.5						1702149 Drill Core	3.33	<0.005	
AUL-18-07	1702150				blank					1702150 Rock	0.17	<0.005	
AUL-18-07	1702151	66.0	67.6	1.6						1702151 Drill Core	3.78	<0.005	
AUL-18-07	1702152	67.6	69.0	1.4						1702152 Drill Core	2.79	<0.005	
AUL-18-07	1702153	69.0	70.5	1.5						1702153 Drill Core	3.29	<0.005	
AUL-18-07	1702154	70.5	72.0	1.5						1702154 Drill Core	3.08	<0.005	
AUL-18-07	1702155	72.0	73.5	1.5						1702155 Drill Core	3.6	<0.005	
AUL-18-07	1702156	73.5	75.0	1.5						1702156 Drill Core	3.16	<0.005	
AUL-18-07	1702157	75.0	76.5	1.5						1702157 Drill Core	3.17	<0.005	
AUL-18-07	1702158	76.5	78.0	1.5						1702158 Drill Core	3.33	<0.005	
AUL-18-07	1702159	78.0	79.5	1.5						1702159 Drill Core	3.63	0.096	
AUL-18-07	1702160	79.5	81.0	1.5						1702160 Drill Core	3.14	0.019	
AUL-18-07	1702161	81.0	82.5	1.5			5			1702161 Drill Core	3.47	0.043	
AUL-18-07	1702162	82.5	83.5	1.0			1			1702162 Drill Core	1.94	0.016	
AUL-18-07	1702163	83.5	84.3	0.8			10			1702163 Drill Core	1.95	0.043	
AUL-18-07	1702164	84.3	85.0	0.7			90	15		1702164 Drill Core	1.61	0.174	
AUL-18-07	1702165	85.0	86.0	1.0			90	15		1702165 Drill Core	1.97	0.092	
AUL-18-07	1702166	86.0	87.0	1.0			90	10		1702166 Drill Core	2.02	1.486	
AUL-18-07	1702167	87.0	88.0	1.0			90	15		1702167 Drill Core	3.13	0.094	
AUL-18-07	1702168	88.0	89.0	1.0			90	15		1702168 Drill Core	2.25	1.607	
AUL-18-07	1702169	89.0	90.0	1.0			90	10		1702169 Drill Core	1.94	0.856	
AUL-18-07	1702170					217				1702170 Rock Pulp	0.05	6.481	
AUL-18-07	1702171	90.0	91.0	1.0			90	5		1702171 Drill Core	1.61	0.253	
AUL-18-07	1702172	91.0	92.0	1.0			90	15	1	1702172 Drill Core	2.25	1.155	
AUL-18-07	1702173	92.0	93.0	1.0			90	15		1702173 Drill Core	2.26	1.959	
AUL-18-07	1702174	93.0	94.0	1.0			90	10	3	1702174 Drill Core	2.38	1.472	
AUL-18-07	1702175				blank					1702175 Rock	0.16	<0.005	
AUL-18-07	1702176	94.0	95.0	1.0			90	15	3	1702176 Drill Core	2.29	2.582	
AUL-18-07	1702177	95.0	96.0	1.0			90	10		1702177 Drill Core	2.68	1.586	
AUL-18-07	1702178	96.0	97.0	1.0			90	5	1	1702178 Drill Core	2.53	8.821	

Samples

AUL-18-07	1702179	97.0	98.0	1.0		90	5	2	1702179 Drill Core	1.88	1.855	
AUL-18-07	1702180	98.0	99.0	1.0		90	10	9	1702180 Drill Core	2.32	3.454	
AUL-18-07	1702181	99.0	100.0	1.0		90	10	5	1702181 Drill Core	2.25	4.758	
AUL-18-07	1702182	100.0	101.0	1.0		90	25	20	1702182 Drill Core	2.63	3.746	
AUL-18-07	1702183	101.0	102.0	1.0		90	25	15	1702183 Drill Core	2.52	8.129	
AUL-18-07	1702184	102.0	103.0	1.0		90	25	20	1702184 Drill Core	2.35	>10.000	30.2
AUL-18-07	1702185				216				1702185 Rock Pulp	0.05	6.544	
AUL-18-07	1702186	103.0	104.0	1.0		90	10		1702186 Drill Core	1.92	0.392	
AUL-18-07	1702187	104.0	105.0	1.0		1	1	0.5	1702187 Drill Core	2.44	2.375	
AUL-18-07	1702188	105.0	106.0	1.0		15	1	0.5	1702188 Drill Core	2.24	7.834	
AUL-18-07	1702189	106.0	107.0	1.0		75	1	0.5	1702189 Drill Core	2	0.199	
AUL-18-07	1702190	107.0	108.0	1.0		40	1	0.5	1702190 Drill Core	2.26	2.578	

Header

DDH ID	AUL-18-08						
	Claim #	East	North	Az	Dip	EOH (m)	(Nad 83)
Location	3019086	592270	5483475	180	-55	492.0	
Purpose	Deeper western extension of the Mikwam Deposit.						
Start date	March 18,2018						
End date	March 23,2018						
Drill Contractor	NPLH						
Logged By	T.Keast						

Description

BHID	From	To	Litho	Comment
AUL-18-08	0	39	CAS	Casing through overburden
AUL-18-08	39	48.0	ARGgry	<p>ARGILLITE Grey - Dark grey, rare yet distinct narrow banding/laminated intervals. Strongly foliated, part of large scale shear structure, low core angle. Overprinting of strong foliation.</p> <p>Soft with scattered local harder sections. Lithons of sheared up material. LOC 3/5</p>
AUL-18-08	48	82.9	shrARG	<p>SHEARED ARGILLITES - Dark grey colour strongly foliated, low angle to core axis.</p> <p>Banded schistosity is structural overprint, not bedding. Sheared grey argillites? Considerable variation in unit. Local intervals with 1% py, rare qtz vein. Rare carb stringers</p> <p>Grey sericite and green chlorite.</p> <p>Unit is hard just able to scratch and some sections not scratched, silicification?.</p> <p>Upper contact is poorly defined, gradational.</p> <p>Local intervals of disrupted foliation, fault brecciation?</p> <p>57.0 - 60.0 Broken blocky core, numerous low core angle wedges.</p> <p>66.0 - 68.0 broken blocky core numerous low angle wedges. LOC 2/5</p> <p>Upper contact is gradational.</p>
AUL-18-08	82.9	90.1	shrCONG	<p>SHEARED CONGLOMERATE - Light color strongly foliated. Complex texture of variable material in discontinuous lenses, flattened.</p> <p>Could be flattened clasts. Texture is different from above Sheared unit, different rock type but continuation of structure.</p> <p>Sericite rich sections generally light some chlorite. Numerous intervals of fault breccia, angular lithons.</p> <p>84.9 10 cm vuggy py vein. LOC 1/5</p> <p>Abrupt upper contact</p>

Description

AUL-18-08	90.1	106.6	shrARG	<p>SHEARED ARGILLITE Black- Dark black fine grained strongly foliated. Continuation of large shear structure</p> <p>Strongly foliated with black fine bands/beds alternating with darker grey.</p> <p>Local intervals with boudinaged qtz veins and brecciated veins. LOC 5/5</p> <p>94.0-94.6 Soft graphitic fault gouge/clay. Strong conductor along core axis and across core axis.</p> <p>Numerous small scale folds.</p> <p>96.4 -102.0 15% white qtz veins, along foliation, folded boudinaged and brecciated.</p> <p>Sharp upper contact</p>
AUL-18-08	106.6	136.2	QTZSER	<p>QUATRZ SERICITE SCHIST- Identification of original rock unit is unknown. Strongly foliated light buff color</p> <p>Fine grained, sericite and qtz with scattered qtz veins. Continuation of larger overprinting structure</p> <p>Alteration and structure has overprinted original textures</p> <p>117.0 - 120 5% grey veins up to 5 cm tr py along foliation.</p> <p>133.5 - 136.2 5% qtz veins 1% py along foliation</p> <p>Upper contact is abrupt, where darker band/beds stop.</p>
AUL-18-08	136.2	188.5	shrARG	<p>SHEARED ARGILLITE Black- Dark black fine grained strongly foliated. Continuation of large shear structure</p> <p>Strongly foliated, beds and bands not obvious strong structural overprint of dark argillite.</p> <p>Local intervals with boudinaged qtz veins and brecciated veins. LOC 5/5</p> <p>137.5 - 10 cm py band conductive</p> <p>139.0 - 144.0 interval of chlorite sericite qtz schist</p> <p>146.4 - 147.0 Interval of chlorite sericite qtz schist</p>

Description

148.0 10 cm interval of white cherty 1 cm bands with dark argillite bands. Looks like an IF but not magnetic.

At 154 going downhole foliation is folded irregular disrupted. Veins folded and brecciated.

Complex folding low angles to core axis, not a pattern to folding. Py stringers in disrupted folding in narrow stringers.

162.0 166.0 Complex folded qtz veins 3% py

170.5 - 177.0 Lighter sericitic interval. Wide structure with complex folding.

177.0 dark black argillite strongly foliated with foliation running parallel to core axis

Narrow shear planes with shiny graphite, not conductive.

AUL-18-08 188.5 202.1 shrARG

SHEARED ARGILLITE Black- Dark black fine grained strongly foliated. Continuation of large shear structure

Strong foliation along core axis.

Unit is visually same as above Sheared Argillite except for presence of disseminated Magnetite.

Note gradual increase in MS readings to support this.

Abrupt upper contact however low core axis

AUL-18-08 202.1 217 ARGblk

ARGILLITE Black - Distinct recognition of alternating black grey bands/beds and laminations.

Continuous banding throughout unit.

Unit is hard just able to scratch

Abrupt upper contact

Description

AUL-18-08	217	221.5	shrCONG	<p>SHEARED CONGLOMERATE - Strongly foliated unit with several sections of what appear to be light colored clasts flattened light in color. Possible fault breccia.</p> <p>Carb stringers along foliation</p> <p>219.5 - 220.5 7-10% py, vuggy and pitted.</p>
AUL-18-08	221.5	234.8	ARGIF	<p>ARGILLITE Grey IF - Light buff to grey well banded bedded unit with distinct black highly magnetic beds/laminations.</p> <p>Light buff creamy white beds cherty make up 25% of unit</p> <p>IF beds are not continuous but widely spaced through sequence.</p> <p>Unit is hard just able to scratch</p> <p>If beds are disrupted may be transposed.</p>
AUL-18-08	234.8	261	ARGgry	<p>ARGILLITE Grey - Continuation of above unit but with no IF bands.</p> <p>Slightly darker color, chlorite. Distinct bands are spaced out more massive chloritic groundmass.</p> <p>249 -259.9 Black Argillite section.</p>
AUL-18-08	261	275.1	shrARG	<p>SHEARED ARGILLITE grey - Increasing foliation and destruction of the banding/bedding.</p> <p>10-15% Qtz carb veins along foliation.</p>
AUL-18-08	275.1	279.6	ARGIF	<p>ARGILLITE Grey IF - Light buff to grey well banded bedded unit with distinct black highly magnetic beds/laminations.</p> <p>Light buff creamy white beds cherty make up 25% of unit</p> <p>IF beds are not continuous but widely spaced through sequence.</p> <p>Unit is hard just able to scratch</p> <p>IF beds highly magnetic</p> <p>Sharp upper contact</p>
AUL-18-08	279.6	285.4	shrARG	<p>SHEARED ARGILLITE grey - Increasing foliation and destruction of the banding/bedding.</p> <p>Bedding/banding visible but overprinting strong foliation</p> <p>Grey color</p>

Description

Readily scratched
5% carb veins along foliation

Gradational upper contact

AUL-18-08 285.4 296.4 ARGIF ARGILLITE Grey IF - Light buff to grey well banded bedded unit with distinct black highly magnetic beds/laminations.
Light buff creamy white beds cherty make up 25% of unit
IF beds are not continuous but widely spaced through sequence.
Unit is hard just able to scratch

Bedding/banding is disrupted brecciated as part of overprinting structure.
IF beds highly magnetic numerous small scale folds

Sharp upper contact

AUL-18-08 296.4 302.7 ARGgry ARGILLITE Grey - Continuation of above unit but with no IF bands, and no creamy white chert bands.
Slightly darker color, chloritic, strongly foliated.
Some darker bands, but they are not magnetic. Variable hardness
2cm wide py crosscutting at 298.9

Sharp upper contact

AUL-18-08 302.7 305.7 ARGIF ARGILLITE Grey IF - Light buff to grey well banded bedded unit with distinct black highly magnetic beds/laminations.
Light buff creamy white beds cherty make up 25% of unit
IF beds are not continuous but widely spaced through sequence.
Unit is hard just able to scratch

AUL-18-08 305.7 310.9 ARGblk ARGILLITE Black - Distinct recognition of alternating black grey bands/beds and laminations.
Continuous banding throughout unit. 10-15% carb veins. 1% py.
Unit is hard just able to scratch

Sharp upper contact

Description

AUL-18-08	310.9	326.2	CONG	<p>CONGLOMERATE - Light grey strongly foliated unit with distinct light grey green flattened clasts.</p> <p>Flattened clasts resemble banding/bedding but clear clast outlines visible. Distinct rounded black clasts rare. Groundmass is gritty.</p>
AUL-18-08	326.2	345	shrARG	<p>SHEARED ARGILLITE grey - Increasing foliation and destruction of the banding/bedding. Foliation strongly tightly folded at low angles to core axis. Grey color Readily scratched</p> <p>337.9-339.0 Distinct interval of sheared conglomerate. Distinct flattened clasts</p> <p>Sharp upper contact</p>
AUL-18-08	345	355.9	CONG	<p>CONGLOMERATE - Light grey strongly foliated unit with distinct light grey green flattened clasts. Some rounded clast visible. Groundmass is gritty. 354.0-355.9 25% grey to white quartz carb veins</p> <p>Sharp upper contact</p>
AUL-18-08	355.9	363	WACKE	<p>GREYWACKE - Grey to dark grey massive fine grained, strongly foliated. Massive texture, faint possible bedding. Granular gritty texture strongly foliated. Not a crystalline texture although has appearance of a dyke.</p> <p>Readily scratched</p> <p>Gradational indistinct contact.</p>

Description

AUL-18-08	363	393	ARGgrph	<p>ARGILLITE Graphite - Fault breccia disrupted beds and angular fault breccia fragments with qtz veins</p> <p>10% white qtz veins with up to 10% py. 10-15% Py in poorly formed laminations of individual cubes</p> <p>Unit becomes increasing graphitic down unit. Graphitic sections very strong conductor along core axis for entire lengths core 25cm</p> <p>PY stringers weakly conductive.</p> <p>Unit becomes increasing graphitic down unit. Graphitic sections very strong conductor along core axis for entire lengths core 25cm</p> <p>Unit is scratched but relatively hard.</p>
AUL-18-08	393	414.1	ARGgry	<p>ARGILLITE Grey - Strong foliation with distinct alternating grey and black band/beds.</p> <p>Sharp upper contact with QC 393.0-393.5 15% py</p> <p>Scattered narrow <1m wide black argillite bands interfingering.</p> <p>Unit contains scattered creamy white cherty bands with dark black laminations and bands. Black bands not magnetic not IF</p> <p>Pristine small scale folds at 411.0 & 412.8</p> <p>Sharp upper contact brecciated</p>
AUL-18-08	414.1	422	ARGblk	<p>ARGILLITE Black- Slightly darker interval of well banded/bedded darker material with no cherty bands.</p> <p>Gradational upper contact</p>
AUL-18-08	422	432.1	ARGgry	<p>ARGILLITE Grey- Dark grey well banded/bedded with distinct 20% creamy white chert bands/beds.</p> <p>Considerable brecciation of bands. Dark black beds look like IF but not magnetic.</p> <p>Gradational upper contact.</p>
AUL-18-08	432.1	441	FAULT	<p>ARGILLITE Grey Fault Breccia - Light grey well banded argillite with angular fragments of chert and banded argillite. Unit is hard cannot be scratched.</p> <p>Sharp upper contact with 20 cm of fault gouge.</p>

Description

AUL-18-08	441	448 ARGgry	<p>ARGILLITE Grey- Strong foliation but distinct banding /bedding. Rare scattered white chert band.</p> <p>Scattered dark black bands/laminations resemble IF, not magnetic, some bands highly conductive.</p> <p>5% qtz veins irregular</p> <p>Gradational upper contact.</p>
AUL-18-08	448	455.6 MINZONI	<p>MINERALIZED ZONE- Argillite Fault Breccia. Angular fragments of banded material with 75% brecciated grey Qtz vein material</p> <p>Py mineralization locally up to 15% in stringers. Conductive along core axis for 15cm.</p> <p>Considerable variation to this zone.</p> <p>448.0-449.6 80% Brecciated qtz veins and wallrock xenoliths 15% py</p> <p>449.6-450.9 Grey massive wacke unit, strong foliated gritty texture, not crystalline intrusive texture.</p> <p>450.9 - 453.0 Fault Breccia with 25% brecciated qtz veins, 10% py. Argillite clasts.</p> <p>453.0 - 455.6 Fault Breccia with Distinct white chert xenoliths. 5% py.</p> <p>Stongs shear at upper contact.</p>
AUL-18-08	455.6	460 ARGblk	<p>ARGILLITE Black- Typical balck argillite well banded with alternating grey and black bands.</p> <p>Strongly foliated and weakly fault brecciated.</p> <p>Sharp upper contact</p>
AUL-18-08	460	492 ARGgry	<p>ARGILLITE Grey - Typical grey granular texture with alternating lighter grey and darker grey bands and beds.</p> <p>Some fault breccia sections. Strongly foliated</p> <p>Disrupted bedding increasing down unit.</p> <p>Gradual increasing darker black bands/beds</p> <p>@469 Dark black bed low mag conductive illmentie bed.</p> <p>482.5 483.8 Graphitic fault gouge conductive</p>

Description

EOH - Casing Left in Hole.

Mineralization

BHID	From	To	Qtz Veins %	Py %	Po %	Arseno %	Other	Comments	Conductors (tested with ohmeter)
AUL-18-08	0.0	39.0						Casing	
AUL-18-08	39.0	48.0	0.5	1					
AUL-18-08	48.0	89.2	0.5	0.5					
AUL-18-08	82.9	90.1	1	0.5					
AUL-18-08	90.1	94.0	2	1					
AUL-18-08	94.0	94.6					Graphite		Strong Conductor
AUL-18-08	94.6	102.0	10	1					
AUL-18-08	102.0	106.6	3	0.5					
AUL-18-08	106.6	117.0	1	1					
AUL-18-08	117.0	120.5	5	1					
AUL-18-08	120.5	133.5	1	1					
AUL-18-08	133.5	136.2	5	1					
AUL-18-08	137.5	137.6		80					Strong conductor along and across core axis
AUL-18-08	162	166	5	3					
AUL-18-08	261	275	10	1					
AUL-18-08	354	355.9	25	1					
AUL-18-08	363	393	10	5			Graphite	Py stringers pitted	Graphite strong conductor along core axis, py weak to mod conductor
AUL-18-08	393	383.5	100	10					
AUL-18-08	448	449.6	80	15				PY stingers	Weak to mod conductor along core axis
AUL-18-08	449.6	450.9							
AUL-18-08	450.9	453	25	10					
AUL-18-08	453	455.6	1	5					
AUL-18-08	469	469.1					Ilmenite	Ilmenite beds weak mag	Moderate conductor
AUL-18-08	482.5	483.5					Graphite	Fault gouge	Strong conductor along core

Structure

BHID	Depth	Deg to CA	Comment	Comment
AUL-18-08	41.0	45	Foliation	Banding/bedding
AUL-18-08	47.0	30	Foliation	Banding/bedding
AUL-18-08	53.0	35	Foliation	
AUL-18-08	56.0	5	Foliation	
AUL-18-08	60.0	0	Foliation	
AUL-18-08	63.0	5	Foliation	
AUL-18-08	69.0	15	Foliation	
AUL-18-08	70.0	5	Foliation	
AUL-18-08	73.0	20	Foliation	
AUL-18-08	76.0	35	Foliation	
AUL-18-08	81.0	45	Foliation	
AUL-18-08	85.0	40	Foliation	
AUL-18-08	90.5	50	Foliation	Banding/bedding
AUL-18-08	90.5	50	Foliation	Banding/bedding
AUL-18-08	95.0	50	Foliation	2nd cleavage
AUL-18-08	97.0	35	Foliation	Banding/bedding
AUL-18-08	104.0	35	Foliation	
AUL-18-08	107.0	35	Foliation	
AUL-18-08	114.0	30	Foliation	
AUL-18-08	118.0	40	Foliation	
AUL-18-08	125.0	40	Foliation	
AUL-18-08	134.0	45	Foliation	
AUL-18-08	136.1	60	Foliation	
AUL-18-08	137.0	60	Foliation	
AUL-18-08	143.0	40	Foliation	
AUL-18-08	145.0	55	Foliation	
AUL-18-08	148.0	70	Foliation	Banding/bedding
AUL-18-08	154.0	65	Foliation	
AUL-18-08	157	70	Foliation	Disrupted/folded discontinuous foliation
AUL-18-08	166	65	Foliation	Disrupted/folded discontinuous foliation
AUL-18-08	170	20	Foliation	Disrupted/folded discontinuous foliation
AUL-18-08	174	25	Foliation	Banding/bedding
AUL-18-08	178.5	10	Foliation	Banding/bedding
AUL-18-08	180	5	Foliation	2nd cleavage
AUL-18-08	182	5	Foliation	
AUL-18-08	186	25	Foliation	
AUL-18-08	190	10	Foliation	
AUL-18-08	196	0	Foliation	
AUL-18-08	199	10	Foliation	
AUL-18-08	202	15	Foliation	
AUL-18-08	203	15	Foliation	Banding/bedding
AUL-18-08	204	15	Foliation	Banding/bedding
AUL-18-08	207	25	Foliation	Banding/bedding
AUL-18-08	210	35	Foliation	Banding/bedding
AUL-18-08	216	25	Foliation	Banding/bedding
AUL-18-08	218	40	Foliation	

Structure

AUL-18-08	224	20 Foliation	
AUL-18-08	225.5	25 Foliation	Banding/bedding
AUL-18-08	228	30 Foliation	Banding/bedding
AUL-18-08	231	30 Foliation	Banding/bedding
AUL-18-08	241	35 Foliation	Banding/bedding
AUL-18-08	247	30 Foliation	
AUL-18-08	255	45 Foliation	Banding/bedding
AUL-18-08	260	40 Foliation	Banding/bedding
AUL-18-08	271	25 Foliation	
AUL-18-08	278	25 Foliation	Banding/bedding
AUL-18-08	283	20 Foliation	
AUL-18-08	287	30 Foliation	Banding/bedding
AUL-18-08	293	20 Foliation	Banding/bedding
AUL-18-08	297	25 Foliation	Banding/bedding
AUL-18-08	304	40 Foliation	Banding/bedding
AUL-18-08	310	45 Foliation	Banding/bedding
AUL-18-08	318	40 Foliation	
AUL-18-08	325	50 Foliation	
AUL-18-08	332	20 Foliation	
AUL-18-08	334	5 Foliation	
AUL-18-08	338	15 Foliation	
AUL-18-08	344	25 Foliation	
AUL-18-08	352	40 Foliation	
AUL-18-08	356	65 Foliation	
AUL-18-08	368	10 Foliation	
AUL-18-08	375	15 Foliation	
AUL-18-08	380	20 Foliation	
AUL-18-08	387	15 Foliation	
AUL-18-08	392	20 Foliation	
AUL-18-08	397	30 Foliation	
AUL-18-08	405	15 Foliation	Banding/bedding
AUL-18-08	410	25 Foliation	Banding/bedding
AUL-18-08	424	20 Foliation	
AUL-18-08	431	15 Foliation	Banding/bedding
AUL-18-08	438	5 Foliation	
AUL-18-08	448	30 Foliation	
AUL-18-08	449.5	40 Foliation	Banding/bedding
AUL-18-08	451	40 Foliation	Banding/bedding
AUL-18-08	453	30 Foliation	Banding/bedding
AUL-18-08	458	35 Foliation	
AUL-18-08	464	25 Foliation	
AUL-18-08		Foliation	
AUL-18-08		Foliation	
AUL-18-08		Foliation	

Structure

AUL-18-08	411	Plung of hinge line of fold axis	-30/72
AUL-18-08		Axial plane	98/-60 S
AUL-18-08			

MagSuscept

BHID	Depth	MS	<i>Terraplus KT-5 Magnetic Susceptibility Meter</i>
AUL-18-08	40.0	0.00	
AUL-18-08	42.0	0.07	
AUL-18-08	45.0	0.12	
AUL-18-08	48.0	0.22	
AUL-18-08	51.0	0.09	
AUL-18-08	54.0	0.18	
AUL-18-08	57.0	0.10	
AUL-18-08	60.0	0.19	
AUL-18-08	63.0	0.18	
AUL-18-08	66.0	0.13	
AUL-18-08	69.0	0.19	
AUL-18-08	72.0	0.10	
AUL-18-08	75.0	0.18	
AUL-18-08	78.0	0.13	
AUL-18-08	81.0	0.20	
AUL-18-08	84.0	0.14	
AUL-18-08	87.0	0.00	
AUL-18-08	90.0	0.00	
AUL-18-08	93.0	0.01	
AUL-18-08	96.0	0.06	
AUL-18-08	99.0	0.13	
AUL-18-08	102.0	0.27	
AUL-18-08	105.0	0.89	
AUL-18-08	107.0	0.09	
AUL-18-08	111.0	0.23	
AUL-18-08	114.0	0.29	
AUL-18-08	117.0	0.14	
AUL-18-08	120.0	0.18	
AUL-18-08	123.0	0.17	
AUL-18-08	126.0	0.29	
AUL-18-08	129.0	0.19	
AUL-18-08	132.0	0.18	
AUL-18-08	135.0	0.30	
AUL-18-08	138.0	0.00	
AUL-18-08	141.0	0.00	
AUL-18-08	144.0	0.14	
AUL-18-08	147.0	0.26	
AUL-18-08	148.0	0.08	
AUL-18-08	149.0	0.13	
AUL-18-08	153.0	0.00	
AUL-18-08	156.0	0.06	
AUL-18-08	159.0	0.18	
AUL-18-08	162.0	0.13	
AUL-18-08	165.0	0.20	
AUL-18-08	168.0	0.09	
AUL-18-08	171.0	0.06	

MagSuscept

AUL-18-08	174.0	0.05
AUL-18-08	177.0	0.11
AUL-18-08	180.0	0.13
AUL-18-08	183.0	0.08
AUL-18-08	184	0.48
AUL-18-08	185	0.08
AUL-18-08	186	0.41
AUL-18-08	187	0.29
AUL-18-08	188	0.67
AUL-18-08	189	0.92
AUL-18-08	190	0.46
AUL-18-08	192	0.99
AUL-18-08	194	0.81
AUL-18-08	196	1.77
AUL-18-08	197	1.64
AUL-18-08	199	2.14
AUL-18-08	201	1.19
AUL-18-08	204	1.17
AUL-18-08	207	0.53
AUL-18-08	208	0.25
AUL-18-08	209	1.65
AUL-18-08	210	1.02
AUL-18-08	213	1.11
AUL-18-08	216	0.88
AUL-18-08	218	0.87
AUL-18-08	219	0.59
AUL-18-08	220	0.86
AUL-18-08	221	0.83
AUL-18-08	222	1.03
AUL-18-08	224	1.33
AUL-18-08	225	6.78
AUL-18-08	225.5	385
AUL-18-08	226	1.34
AUL-18-08	228	79
AUL-18-08	229	1.3
AUL-18-08	230	2.52
AUL-18-08	232	155
AUL-18-08	233	1.52
AUL-18-08	234	227
AUL-18-08	235	0.86
AUL-18-08	236	0.69
AUL-18-08	237	0.39
AUL-18-08	240	0.33
AUL-18-08	243	0.33
AUL-18-08	246	0.42
AUL-18-08	249	0.82
AUL-18-08	252	0.29

MagSuscept

AUL-18-08	255	0.34
AUL-18-08	258	1.22
AUL-18-08	260	0.79
AUL-18-08	261	0.99
AUL-18-08	264	0.35
AUL-18-08	267	0.57
AUL-18-08	270	0.98
AUL-18-08	271	0.58
AUL-18-08	272	0.4
AUL-18-08	275	0.65
AUL-18-08	276	51.9
AUL-18-08	281	0.44
AUL-18-08	282	0.1
AUL-18-08	284	0.68
AUL-18-08	285	0.8
AUL-18-08	286	0.92
AUL-18-08	287	1.53
AUL-18-08	288	1.85
AUL-18-08	289	22.1
AUL-18-08	290	34.5
AUL-18-08	291	87.8
AUL-18-08	292	288
AUL-18-08	293	2.92
AUL-18-08	294	1.11
AUL-18-08	295	1.31
AUL-18-08	296	1.25
AUL-18-08	298	0.82
AUL-18-08	301	1
AUL-18-08	302	0.48
AUL-18-08	303	1.41
AUL-18-08	304.5	108
AUL-18-08	305.5	1.02
AUL-18-08	306	0.4
AUL-18-08	307	1.21
AUL-18-08	308	0.33
AUL-18-08	309	0.28
AUL-18-08	310	0.3
AUL-18-08	311	0.2
AUL-18-08	314	0.42
AUL-18-08	316.5	1.77
AUL-18-08	320	0.72
AUL-18-08	324	0.11
AUL-18-08	328	2.24
AUL-18-08	330	1.08
AUL-18-08	338	0.4
AUL-18-08	341	0.2
AUL-18-08	345	0.2

MagSuscept

AUL-18-08	347	1.07
AUL-18-08	353	0.13
AUL-18-08	357	0.1
AUL-18-08	360	0.2
AUL-18-08	363	0.17
AUL-18-08	364	0.06
AUL-18-08	366	0.09
AUL-18-08	370	0.01
AUL-18-08	371	0
AUL-18-08	375	0.06
AUL-18-08	381	0.07
AUL-18-08	384	0.08
AUL-18-08	389	0.05
AUL-18-08	390	0.4
AUL-18-08	392	0.04
AUL-18-08	393	0.09
AUL-18-08	396	0.24
AUL-18-08	399	0.25
AUL-18-08	400	0.85
AUL-18-08	401	0.43
AUL-18-08	402	0.43
AUL-18-08	404	0.36
AUL-18-08	406	0.82
AUL-18-08	408	1.07
AUL-18-08	409	1.47
AUL-18-08	410	1.17
AUL-18-08	411	0.9
AUL-18-08	413	1.58
AUL-18-08	416	0.48
AUL-18-08	419	1.4
AUL-18-08	422	1.73
AUL-18-08	424	0.99
AUL-18-08	427	1.12
AUL-18-08	430	0.5
AUL-18-08	433	0.65
AUL-18-08	438	0.84
AUL-18-08	442	0.8
AUL-18-08	446	0.66
AUL-18-08	448	1.07
AUL-18-08	448.5	1.06
AUL-18-08	449	3.42
AUL-18-08	449.5	0.15
AUL-18-08	450	0.49
AUL-18-08	452	0.21
AUL-18-08	453	0.85
AUL-18-08	453.5	1.13
AUL-18-08	455	0.42

MagSuscept

AUL-18-08	456	0.24
AUL-18-08	458	1.06
AUL-18-08	460	0.22
AUL-18-08	462	0.36
AUL-18-08	464	0.4

RQD

BHID	From	To	Recovery	RQD	Comments
AUL-18-08	0	39			Overburden
AUL-18-08	39.0	42.0	1.8	0.3	
AUL-18-08	42.0	45.0	2.8	1.1	
AUL-18-08	45.0	48.0	2.9	2.0	
AUL-18-08	48.0	51.0	3.0	2.1	
AUL-18-08	51.0	54.0	3.0	2.7	
AUL-18-08	54.0	57.0	3.0	2.5	
AUL-18-08	57.0	60.0	2.8	0.9	
AUL-18-08	60.0	63.0	3.0	2.3	
AUL-18-08	63.0	66.0	3.0	1.8	
AUL-18-08	66.0	69.0	2.8	1.2	
AUL-18-08	69.0	72.0	3.0	2.2	
AUL-18-08	72.0	75.0	3.0	22.0	
AUL-18-08	75.0	78.0	3.0	1.9	
AUL-18-08	78.0	81.0	3.0	2.1	
AUL-18-08	81.0	84.0	3.0	2.6	
AUL-18-08	84.0	87.0	3.0	2.7	
AUL-18-08	87.0	90.0	3.0	2.9	
AUL-18-08	90.0	93.0	3.0	2.6	
AUL-18-08	93.0	96.0	2.8	0.9	
AUL-18-08	96.0	99.0	3.0	1.1	
AUL-18-08	99.0	102.0	3.0	2.2	
AUL-18-08	102.0	105.0	3.0	2.6	
AUL-18-08	105.0	108.0	3.0	2.4	
AUL-18-08	108.0	111.0	3.0	2.7	
AUL-18-08	111.0	114.0	3.0	2.8	
AUL-18-08	114.0	117.0	3.0	2.6	
AUL-18-08	117.0	120.0	3.0	2.8	
AUL-18-08	120.0	123.0	3.0	2.8	
AUL-18-08	123.0	126.0	3.0	3.0	
AUL-18-08	126.0	129.0	2.9	2.4	
AUL-18-08	129.0	132.0	2.9	2.0	
AUL-18-08	132.0	135.0	3.0	2.2	
AUL-18-08	135.0	138.0	3.0	2.4	
AUL-18-08	138.0	141.0	2.8	1.0	
AUL-18-08	141.0	144.0	2.9	2.5	
AUL-18-08	144.0	147.0	3.0	3.0	
AUL-18-08	147.0	150.0	3.0	1.8	
AUL-18-08	150.0	153.0	2.9	0.8	
AUL-18-08	153.0	156.0	3.0	1.2	
AUL-18-08	156.0	159.0	3.0	2.4	
AUL-18-08	159.0	162.0	3.0	2.7	
AUL-18-08	162.0	165.0	3.0	2.5	
AUL-18-08	165.0	168.0	3.0	2.4	
AUL-18-08	168.0	171.0	3.0	2.2	
AUL-18-08	171.0	174.0	3.0	2.6	

RQD

AUL-18-08	174.0	177.0	3.0	3.0
AUL-18-08	177.0	180.0	3.0	2.9
AUL-18-08	180.0	183.0	3.0	1.8
AUL-18-08	183.0	186.0	3.0	3.0
AUL-18-08	186.0	189.0	3.0	3.0
AUL-18-08	189.0	192.0	3.0	3.0
AUL-18-08	192.0	195.0	3.0	3.0
AUL-18-08	195.0	198.0	3.0	3.0
AUL-18-08	198.0	201.0	3.0	2.9
AUL-18-08	201.0	204.0	3.0	2.9
AUL-18-08	204.0	207.0	3.0	2.9
AUL-18-08	207.0	210.0	3.0	2.9
AUL-18-08	210.0	213.0	3.0	2.7
AUL-18-08	213.0	216.0	3.0	2.9
AUL-18-08	216.0	219.0	3.0	2.9
AUL-18-08	219.0	222.0	3.0	2.7
AUL-18-08	222.0	225.0	3.0	2.6
AUL-18-08	225.0	228.0	3.0	2.8
AUL-18-08	228.0	231.0	3.0	2.7
AUL-18-08	231.0	234.0	3.0	2.7
AUL-18-08	234.0	237.0	3.0	2.7
AUL-18-08	237.0	240.0	3.0	2.1
AUL-18-08	240.0	243.0	3.0	2.6
AUL-18-08	243.0	246.0	3.0	2.2
AUL-18-08	246.0	249.0	3.0	2.3
AUL-18-08	249.0	252.0	3.0	2.6
AUL-18-08	252.0	255.0	3.0	2.2
AUL-18-08	255.0	258.0	3.0	2.6
AUL-18-08	258.0	261.0	3.0	2.9
AUL-18-08	261.0	264.0	3.0	3.0
AUL-18-08	264.0	267.0	3.0	2.9
AUL-18-08	267.0	270.0	3.0	2.9
AUL-18-08	270.0	273.0	3.0	3.0
AUL-18-08	273.0	276.0	3.0	3.0
AUL-18-08	276.0	279.0	3.0	3.0
AUL-18-08	279.0	282.0	3.0	3.0
AUL-18-08	282.0	285.0	3.0	2.9
AUL-18-08	285.0	288.0	2.9	2.7
AUL-18-08	288.0	291.0	3.0	2.8
AUL-18-08	291.0	294.0	3.0	2.9
AUL-18-08	294.0	297.0	3.0	2.6
AUL-18-08	297.0	300.0	3.0	1.9
AUL-18-08	300.0	303.0	3.0	2.7
AUL-18-08	303.0	306.0	3.0	2.9
AUL-18-08	306.0	309.0	3.0	2.6
AUL-18-08	309.0	312.0	3.0	2.7
AUL-18-08	312.0	315.0	3.0	2.9

RQD

AUL-18-08	315.0	318.0	3.0	3.0
AUL-18-08	318.0	321.0	3.0	2.9
AUL-18-08	321	324	3	2.9
AUL-18-08	324	327	3	2.8
AUL-18-08	327	330	3	2.9
AUL-18-08	330	333	3	2.9
AUL-18-08	333	336	3	2.8
AUL-18-08	336	339	3	2.6
AUL-18-08	339	342	3	2.7
AUL-18-08	342	345	3	2.9
AUL-18-08	345	348	3	2.8
AUL-18-08	348	351	3	2.4
AUL-18-08	351	354	3	2.6
AUL-18-08	354	357	3	3
AUL-18-08	357	360	3	2.2
AUL-18-08	360	363	3	3
AUL-18-08	363	366	3	2.9
AUL-18-08	366	369	3	2.8
AUL-18-08	369	372	3	2.9
AUL-18-08	372	375	3	3
AUL-18-08	375	378	3	3
AUL-18-08	378	381	3	3
AUL-18-08	381	384	3	3
AUL-18-08	384	387	3	3
AUL-18-08	387	390	3	3
AUL-18-08	390	393	3	3
AUL-18-08	393	396	3	3
AUL-18-08	396	399	3	2.7
AUL-18-08	399	402	3	2.8
AUL-18-08	402	405	3	2.9
AUL-18-08	405	408	3	2.9
AUL-18-08	408	411	3	2.9
AUL-18-08	411	414	3	3
AUL-18-08	414	417	3	3
AUL-18-08	417	420	3	3
AUL-18-08	420	423	3	3
AUL-18-08	423	426	3	3
AUL-18-08	426	429	3	2.8
AUL-18-08	429	432	3	2.7
AUL-18-08	432	435	3	2.8
AUL-18-08	435	438	3	3
AUL-18-08	438	441	3	2.9
AUL-18-08	441	444	3	3
AUL-18-08	444	447	3	2.9
AUL-18-08	447	450	3	2.8
AUL-18-08	450	453	3	3
AUL-18-08	453	456	3	3

RQD

AUL-18-08	456	459	3	3
AUL-18-08	459	462	3	3
AUL-18-08	462	465	3	3
AUL-18-08	465	468	3	
AUL-18-08	468	471	3	
AUL-18-08	471	474	3	
AUL-18-08	474	477	3	
AUL-18-08	477	480	3	
AUL-18-08	480	483	3	
AUL-18-08	483	486	3	
AUL-18-08	486	489	3	
AUL-18-08	489	492	3	

Reflex

BHID	Depth	Az	Az Correct	Dip	Mag Field	Use Az	Use Dip	Comments
AUL-18-08	51.0	199.8	187.3	-53.7	56380.0			
AUL-18-08	102.0	201.4	188.9	-52.9	56447.0			
AUL-18-08	153.0	204.9	192.4	-52.8	57447.0			
AUL-18-08	204.0	212.7	200.2	-53.5	59057.0			
AUL-18-08	255.0	203.4	190.9	-52.5	60636.0			
AUL-18-08	306.0	199.7	187.2	-50.8	56907.0			
AUL-18-08	360.0	200.7	188.2	-48.6	54779.0			
AUL-18-08	408	202.4	189.9	-47.5	54583			
AUL-18-08	462	204.4	191.9	-45.8	54554			

Samples

BHID	Sample	From	To	Width	Stand/blank	QV %	Py%	Po%	Arsen Hem	other	wgt	au
AUL-18-08	1702191	39.0	40.5	1.5							1702191 Drill Core	2.05 <0.005
AUL-18-08	1702192	40.5	42.0	1.5							1702192 Drill Core	3.31 <0.005
AUL-18-08	1702193	42.0	43.5	1.5							1702193 Drill Core	3.17 <0.005
AUL-18-08	1702194	43.5	45.0	1.5							1702194 Drill Core	3.59 <0.005
AUL-18-08	1702195					217					1702195 Rock Pulp	0.03 6.504
AUL-18-08	1702196	45.0	46.5	1.5							1702196 Drill Core	3.51 0.008
AUL-18-08	1702197	46.5	48.0	1.5							1702197 Drill Core	3.13 0.006
AUL-18-08	1702198	48.0	49.5	1.5							1702198 Drill Core	3.42 0.006
AUL-18-08	1702199	49.5	51.0	1.5							1702199 Drill Core	3.77 <0.005
AUL-18-08	1702200				blank						1702200 Rock	0.17 0.014
AUL-18-08	1702201	51.0	52.5	1.5							1702201 Drill Core	3 0.007
AUL-18-08	1702202	52.5	54.0	1.5							1702202 Drill Core	3.61 0.032
AUL-18-08	1702203	54.0	55.5	1.5							1702203 Drill Core	3.33 <0.005
AUL-18-08	1702204	55.5	57.0	1.5							1702204 Drill Core	3.08 <0.005
AUL-18-08	1702205	57.0	58.5	1.5							1702205 Drill Core	3.33 <0.005
AUL-18-08	1702206	58.5	60.0	1.5							1702206 Drill Core	2.74 0.006
AUL-18-08	1702207	60.0	61.5	1.5							1702207 Drill Core	3.99 <0.005
AUL-18-08	1702208	61.5	63.0	1.5							1702208 Drill Core	3.85 0.005
AUL-18-08	1702209	63.0	64.5	1.5							1702209 Drill Core	3.66 <0.005
AUL-18-08	1702210	64.5	66.0	1.5							1702210 Drill Core	3.4 <0.005
AUL-18-08	1702211	66.0	67.5	1.5							1702211 Drill Core	2.61 <0.005
AUL-18-08	1702212	67.5	69.0	1.5							1702212 Drill Core	3.55 0.009
AUL-18-08	1702213	69.0	70.5	1.5							1702213 Drill Core	3.26 0.005
AUL-18-08	1702214	70.5	72.0	1.5							1702214 Drill Core	3.05 0.007
AUL-18-08	1702215	72.0	73.5	1.5							1702215 Drill Core	2.91 0.008
AUL-18-08	1702216	73.5	75.0	1.5							1702216 Drill Core	3.42 <0.005
AUL-18-08	1702217	75.0	76.5	1.5							1702217 Drill Core	2.98 <0.005
AUL-18-08	1702218	76.5	78.0	1.5							1702218 Drill Core	2.96 <0.005
AUL-18-08	1702219	78.0	79.5	1.5							1702219 Drill Core	3.26 <0.005
AUL-18-08	1702220					217					1702220 Rock Pulp	0.04 5.239
AUL-18-08	1702221	79.5	81.0	1.5							1702221 Drill Core	2.84 <0.005
AUL-18-08	1702222	81.0	82.0	1.0							1702222 Drill Core	2.58 0.005
AUL-18-08	1702223	82.0	82.9	0.9							1702223 Drill Core	2.28 <0.005
AUL-18-08	1702224	82.9	84.0	1.1							1702224 Drill Core	2.67 0.015
AUL-18-08	1702225				blank						1702225 Rock	0.15 <0.005
AUL-18-08	1702226	84.0	85.5	1.5			5			10 cm py ve	1702226 Drill Core	3.54 0.022
AUL-18-08	1702227	85.5	87.0	1.5							1702227 Drill Core	3.05 0.018
AUL-18-08	1702228	87.0	88.5	1.5							1702228 Drill Core	3.19 0.02
AUL-18-08	1702229	88.5	90.1	1.6							1702229 Drill Core	3.55 0.013
AUL-18-08	1702230	90.1	91.5	1.4				3			1702230 Drill Core	2.93 0.028
AUL-18-08	1702231	91.5	93.0	1.5				3			1702231 Drill Core	3.07 0.037
AUL-18-08	1702232	93.0	94.5	1.5				3		Graphite in	1702232 Drill Core	2.68 0.039

Samples

AUL-18-08	1702233	94.5	96.0	1.5				1702233 Drill Core	3.83	0.015
AUL-18-08	1702234	96.0	97.5	1.5				1702234 Drill Core	3.37	0.02
AUL-18-08	1702235				216			1702235 Rock Pulp	0.04	6.276
AUL-18-08	1702236	97.5	99.0	1.5				1702236 Drill Core	3.63	0.026
AUL-18-08	1702237	99.0	100.5	1.5				1702237 Drill Core	3.95	0.039
AUL-18-08	1702238	100.5	102.0	1.5				1702238 Drill Core	3.38	0.191
AUL-18-08	1702239	102.0	103.5	1.5				1702239 Drill Core	3.65	0.041
AUL-18-08	1702240	103.5	105.0	1.5				1702240 Drill Core	3.77	0.056
AUL-18-08	1702241	105.0	106.6	1.6				1702241 Drill Core	4.17	0.104
AUL-18-08	1702242	106.6	108.0	1.4				1702242 Drill Core	3.07	<0.005
AUL-18-08	1702243	108.0	109.5	1.5				1702243 Drill Core	3.36	<0.005
AUL-18-08	1702244	109.5	111.0	1.5				1702244 Drill Core	4	0.006
AUL-18-08	1702245				217			1702245 Rock Pulp	0.06	0.492
AUL-18-08	1702246	111.0	112.5	1.5				1702246 Drill Core	3.31	0.006
AUL-18-08	1702247	112.5	114.0	1.5				1702247 Drill Core	3.95	<0.005
AUL-18-08	1702248	114.0	115.5	1.5				1702248 Drill Core	3.68	0.011
AUL-18-08	1702249	115.5	117.0	1.5				1702249 Drill Core	3.31	0.013
AUL-18-08	1702250					blank		1702250 Rock	0.15	<0.005
AUL-18-08	1702251	117.0	118.5	1.5			5 1	1702251 Drill Core	3.53	<0.005
AUL-18-08	1702252	118.5	120.0	1.5				1702252 Drill Core	3.9	<0.005
AUL-18-08	1702253	120.0	121.5	1.5				1702253 Drill Core	3.86	<0.005
AUL-18-08	1702254	121.5	123.0	1.5				1702254 Drill Core	3.3	<0.005
AUL-18-08	1702255	123.0	124.5	1.5				1702255 Drill Core	3.22	0.017
AUL-18-08	1702256	124.5	126.0	1.5				1702256 Drill Core	3.97	0.016
AUL-18-08	1702257	126.0	127.5	1.5				1702257 Drill Core	3.09	<0.005
AUL-18-08	1702258	127.5	129.0	1.5				1702258 Drill Core	3.55	<0.005
AUL-18-08	1702259	129.0	130.5	1.5				1702259 Drill Core	2.84	0.006
AUL-18-08	1702260	130.5	132.0	1.5				1702260 Drill Core	2.93	<0.005
AUL-18-08	1702261	132.0	133.5	1.5				1702261 Drill Core	1.63	<0.005
AUL-18-08	1702262	133.5	135.0	1.5				1702262 Drill Core	3.99	<0.005
AUL-18-08	1702263	135.0	136.2	1.2				1702263 Drill Core	2.76	<0.005
AUL-18-08	1702264	136.2	137.5	1.3				1702264 Drill Core	2.97	0.018
AUL-18-08	1702265	137.5	139.0	1.5				1702265 Drill Core	3.34	0.03
AUL-18-08	1702266	139.0	140.5	1.5				1702266 Drill Core	2.99	0.007
AUL-18-08	1702267	140.5	142.0	1.5				1702267 Drill Core	2.45	0.011
AUL-18-08	1702268	142.0	143.5	1.5				1702268 Drill Core	3.09	0.011
AUL-18-08	1702269	143.5	145.0	1.5				1702269 Drill Core	3.08	0.015
AUL-18-08	1702270				217			1702270 Rock Pulp	0.07	0.503
AUL-18-08	1702271	145.0	146.5	1.5				1702271 Drill Core	3.42	0.01
AUL-18-08	1702272	146.5	148.0	1.5				1702272 Drill Core	3.75	0.013
AUL-18-08	1702273	148.0	149.5	1.5				1702273 Drill Core	3.05	0.022
AUL-18-08	1702274	149.5	151.0	1.5				1702274 Drill Core	3.34	0.017
AUL-18-08	1702275					blank		1702275 Rock	<0.01	0.005

Samples

AUL-18-08	1702276	151.0	152.5	1.5		1702276 Drill Core	2.73	0.016
AUL-18-08	1702277	152.5	154.0	1.5		1702277 Drill Core	2.6	0.02
AUL-18-08	1702278	154.0	155.5	1.5		1702278 Drill Core	3.48	0.027
AUL-18-08	1702279	155.5	157.0	1.5		1702279 Drill Core	3.54	0.016
AUL-18-08	1702280	157.0	158.5	1.5		1702280 Drill Core	3.25	0.028
AUL-18-08	1702281	158.5	160.0	1.5		1702281 Drill Core	3.61	0.027
AUL-18-08	1702282	160.0	161.5	1.5		1702282 Drill Core	3.73	0.05
AUL-18-08	1702283	161.5	163.0	1.5		1702283 Drill Core	3.01	0.018
AUL-18-08	1702284	163.0	164.5	1.5		1702284 Drill Core	3.47	0.023
AUL-18-08	1702285				216	1702285 Rock Pulp	0.06	0.534
AUL-18-08	1702286	164.5	166.0	1.5		1702286 Drill Core	3.55	0.02
AUL-18-08	1702287	166.0	167.5	1.5		1702287 Drill Core	3.28	0.011
AUL-18-08	1702288	167.5	169.0	1.5		1702288 Drill Core	2.98	0.008
AUL-18-08	1702289	169.0	170.5	1.5		1702289 Drill Core	2.94	0.009
AUL-18-08	1702290	170.5	172.0	1.5		1702290 Drill Core	3.51	0.009
AUL-18-08	1702291	172.0	173.5	1.5		1702291 Drill Core	3.41	<0.005
AUL-18-08	1702292	173.5	175.0	1.5		1702292 Drill Core	3.53	0.009
AUL-18-08	1702293	175.0	176.5	1.5		1702293 Drill Core	3.27	0.009
AUL-18-08	1702294	176.5	178.0	1.5		1702294 Drill Core	3.57	0.017
AUL-18-08	1702295				217	1702295 Rock Pulp	0.07	0.533
AUL-18-08	1702296	178.0	179.5	1.5		1702296 Drill Core	3.35	0.026
AUL-18-08	1702297	179.5	181.0	1.5		1702297 Drill Core	3.51	0.023
AUL-18-08	1702298	181.0	182.5	1.5		1702298 Drill Core	2.75	0.007
AUL-18-08	1702299	182.5	184.0	1.5		1702299 Drill Core	3.54	0.006
AUL-18-08	1702300				blank	1702300 Rock	0.21	<0.005
AUL-18-08	1702301	184.0	185.5	1.5		1702301 Drill Core	3.73	0.007
AUL-18-08	1702302	185.5	187.0	1.5		1702302 Drill Core	3.63	0.049
AUL-18-08	1702303	187.0	188.5	1.5		1702303 Drill Core	3.51	<0.005
AUL-18-08	1702304	188.5	190.0	1.5		1702304 Drill Core	3.42	0.009
AUL-18-08	1702305	190.0	191.5	1.5		1702305 Drill Core	3.24	0.039
AUL-18-08	1702306	191.5	193.0	1.5		1702306 Drill Core	3.37	0.014
AUL-18-08	1702307	193.0	194.5	1.5		1702307 Drill Core	3.43	0.016
AUL-18-08	1702308	194.5	196.0	1.5		1702308 Drill Core	3.62	0.009
AUL-18-08	1702309	196.0	197.5	1.5		1702309 Drill Core	3.13	0.01
AUL-18-08	1702310	197.5	199.0	1.5		1702310 Drill Core	3.9	0.01
AUL-18-08	1702311	199.0	200.5	1.5		1702311 Drill Core	3.26	0.007
AUL-18-08	1702312	200.5	202.1	1.6		1702312 Drill Core	3.66	0.009
AUL-18-08	1702313	202.1	203.5	1.4		1702313 Drill Core	3.33	<0.005
AUL-18-08	1702314	203.5	205.0	1.5		1702314 Drill Core	3.84	<0.005
AUL-18-08	1702315	205.0	206.5	1.5		1702315 Drill Core	2.92	0.005
AUL-18-08	1702316	206.5	208.0	1.5		1702316 Drill Core	3.1	0.007
AUL-18-08	1702317	208.0	209.5	1.5		1702317 Drill Core	3.91	0.009
AUL-18-08	1702318	209.5	211.0	1.5		1702318 Drill Core	3.66	0.013

Samples

AUL-18-08	1702319	211.0	212.5	1.5		1702319	Drill Core	3.21	0.008
AUL-18-08	1702320				217	1702320	Rock Pulp	0.05	6.374
AUL-18-08	1702321	212.5	214.0	1.5		1702321	Drill Core	4.12	0.008
AUL-18-08	1702322	214.0	215.5	1.5		1702322	Drill Core	2.28	0.006
AUL-18-08	1702323	215.5	217.0	1.5		1702323	Drill Core	5.07	0.009
AUL-18-08	1702324	217.0	218.5	1.5		1702324	Drill Core	3.56	0.008
AUL-18-08	1702325				blank	1702325	Rock	0.17	<0.005
AUL-18-08	1702326	218.5	220.0	1.5		1702326	Drill Core	3.8	0.01
AUL-18-08	1702327	220.0	221.5	1.5		1702327	Drill Core	3.61	0.039
AUL-18-08	1702328	221.5	223.0	1.5		1702328	Drill Core	3.85	0.02
AUL-18-08	1702329	223.0	224.5	1.5		1702329	Drill Core	3.58	0.005
AUL-18-08	1702330	224.5	226.0	1.5		1702330	Drill Core	4	0.017
AUL-18-08	1702331	226.0	227.5	1.5		1702331	Drill Core	3.73	0.006
AUL-18-08	1702332	227.5	229.0	1.5		1702332	Drill Core	3.95	0.016
AUL-18-08	1702333	229.0	230.5	1.5		1702333	Drill Core	4.07	0.014
AUL-18-08	1702334	230.5	232.0	1.5		1702334	Drill Core	4.14	0.043
AUL-18-08	1702335				216	1702335	Rock Pulp	0.07	6.374
AUL-18-08	1702336	232.0	233.5	1.5		1702336	Drill Core	2.75	0.01
AUL-18-08	1702337	233.5	234.8	1.3		1702337	Drill Core	4.67	0.006
AUL-18-08	1702338	234.8	236.0	1.2		1702338	Drill Core	2.93	<0.005
AUL-18-08	1702339	236.0	237.5	1.5		1702339	Drill Core	3.59	<0.005
AUL-18-08	1702340	237.5	239.0	1.5		1702340	Drill Core	3.77	0.006
AUL-18-08	1702341	239.0	240.5	1.5		1702341	Drill Core	3.52	0.006
AUL-18-08	1702342	240.5	242.0	1.5		1702342	Drill Core	3.41	0.006
AUL-18-08	1702343	242.0	243.5	1.5		1702343	Drill Core	3.23	0.008
AUL-18-08	1702344	243.5	245.0	1.5		1702344	Drill Core	4.01	0.006
AUL-18-08	1702345				217	1702345	Rock Pulp	0.09	0.526
AUL-18-08	1702346	245.0	246.5	1.5		1702346	Drill Core	3.79	0.027
AUL-18-08	1702347	246.5	248.0	1.5		1702347	Drill Core	2.38	0.028
AUL-18-08	1702348	248.0	249.5	1.5		1702348	Drill Core	3.64	0.011
AUL-18-08	1702349	249.5	251.0	1.5		1702349	Drill Core	3.16	0.009
AUL-18-08	1702350				blank	1702350	Rock	0.17	<0.005
AUL-18-08	1702351	251.0	252.5	1.5		1702351	Drill Core	3.14	0.016
AUL-18-08	1702352	252.5	254.0	1.5		1702352	Drill Core	3.19	0.009
AUL-18-08	1702353	254.0	255.5	1.5		1702353	Drill Core	3.26	<0.005
AUL-18-08	1702354	255.5	257.0	1.5		1702354	Drill Core	3.07	0.009
AUL-18-08	1702355	257.0	258.5	1.5		1702355	Drill Core	3.81	<0.005
AUL-18-08	1702356	258.5	260.0	1.5		1702356	Drill Core	2.96	0.006
AUL-18-08	1702357	260.0	261.0	1.0		1702357	Drill Core	2.03	0.013
AUL-18-08	1702358	261.0	262.5	1.5		1702358	Drill Core	3.4	<0.005
AUL-18-08	1702359	262.5	264.0	1.5		1702359	Drill Core	3.95	0.005
AUL-18-08	1702360	264.0	265.5	1.5		1702360	Drill Core	3.7	<0.005
AUL-18-08	1702361	265.5	267.0	1.5		1702361	Drill Core	3.55	<0.005

Samples

AUL-18-08	1702362	267.0	268.5	1.5		1702362	Drill Core	3.39	0.062
AUL-18-08	1702363	268.5	270.0	1.5		1702363	Drill Core	3.08	0.01
AUL-18-08	1702364	270.0	271.5	1.5		1702364	Drill Core	3.08	0.083
AUL-18-08	1702365	271.5	273.0	1.5		1702365	Drill Core	3.23	0.007
AUL-18-08	1702366	273.0	274.0	1.0		1702366	Drill Core	1.76	0.008
AUL-18-08	1702367	274.0	275.1	1.1		1702367	Drill Core	3.02	0.014
AUL-18-08	1702368	275.1	276.5	1.4		1702368	Drill Core	2.47	0.016
AUL-18-08	1702369	276.5	278.0	1.5		1702369	Drill Core	3.54	0.091
AUL-18-08	1702370				217	1702370	Rock Pulp	0.08	0.506
AUL-18-08	1702371	278.0	279.6	1.6		1702371	Drill Core	3.81	0.065
AUL-18-08	1702372	279.6	281.0	1.4		1702372	Drill Core	2.76	0.031
AUL-18-08	1702373	281.0	282.5	1.5		1702373	Drill Core	3.78	0.062
AUL-18-08	1702374	282.5	284.0	1.5		1702374	Drill Core	2.92	0.007
AUL-18-08	1702375				blank	1702375	Rock	0.21	<0.005
AUL-18-08	1702376	284.0	285.4	1.4		1702376	Drill Core	3.22	0.007
AUL-18-08	1702377	285.4	287.0	1.6		1702377	Drill Core	4	0.012
AUL-18-08	1702378	287.0	288.5	1.5		1702378	Drill Core	3.54	0.017
AUL-18-08	1702379	288.5	290.0	1.5		1702379	Drill Core	3.16	0.006
AUL-18-08	1702380	290.0	291.5	1.5		1702380	Drill Core	3.55	0.01
AUL-18-08	1702381	291.5	293.0	1.5		1702381	Drill Core	3.67	0.016
AUL-18-08	1702382	293.0	294.5	1.5		1702382	Drill Core	3.5	<0.005
AUL-18-08	1702383	294.5	295.5	1.0		1702383	Drill Core	2.57	<0.005
AUL-18-08	1702384	295.5	296.4	0.9		1702384	Drill Core	1.79	<0.005
AUL-18-08	1702385				216	1702385	Rock Pulp	0.06	6.154
AUL-18-08	1702386	296.4	297.5	1.1		1702386	Drill Core	2.52	<0.005
AUL-18-08	1702387	297.5	299.0	1.5		1702387	Drill Core	2.36	0.05
AUL-18-08	1702388	299.0	300.5	1.5		1702388	Drill Core	4.02	0.025
AUL-18-08	1702389	300.5	301.5	1.0		1702389	Drill Core	1.97	0.006
AUL-18-08	1702390	301.5	302.7	1.2		1702390	Drill Core	2.25	<0.005
AUL-18-08	1702391	302.7	304.0	1.3		1702391	Drill Core	3.04	<0.005
AUL-18-08	1702392	304.0	305.7	1.7		1702392	Drill Core	3.94	0.01
AUL-18-08	1702393	305.7	307.0	1.3		1702393	Drill Core	2.57	0.013
AUL-18-08	1702394	307.0	308.5	1.5		1702394	Drill Core	3.21	0.006
AUL-18-08	1702395				217	1702395	Rock Pulp	0.06	0.513
AUL-18-08	1702396	308.5	309.5	1.0		1702396	Drill Core	1.84	0.009
AUL-18-08	1702397	309.5	310.9	1.4		1702397	Drill Core	3.53	0.005
AUL-18-08	1702398	310.9	312.5	1.6		1702398	Drill Core	3.02	<0.005
AUL-18-08	1702399	312.5	314.0	1.5		1702399	Drill Core	2.92	0.011
AUL-18-08	1702400				blank	1702400	Rock	0.17	<0.005
AUL-18-08	1702401	314.0	315.5	1.5		1702401	Drill Core	3.5	0.006
AUL-18-08	1702402	315.5	317.0	1.5		1702402	Drill Core	2.88	0.009
AUL-18-08	1702403	317.0	318.5	1.5		1702403	Drill Core	2.96	0.011
AUL-18-08	1702404	318.5	320.0	1.5		1702404	Drill Core	3.27	0.018

Samples

AUL-18-08	1702405	320.0	321.5	1.5		1702405 Drill Core	3.16	0.012
AUL-18-08	1702406	321.5	323.0	1.5		1702406 Drill Core	3.39	0.01
AUL-18-08	1702407	323.0	324.5	1.5		1702407 Drill Core	3.01	<0.005
AUL-18-08	1702408	324.5	325.5	1.0		1702408 Drill Core	2.11	0.008
AUL-18-08	1702409	325.5	326.2	0.7		1702409 Drill Core	1.6	0.015
AUL-18-08	1702410	326.2	327.5	1.3		1702410 Drill Core	2.9	<0.005
AUL-18-08	1702411	327.5	329.0	1.5		1702411 Drill Core	2.93	<0.005
AUL-18-08	1702412	329.0	330.5	1.5		1702412 Drill Core	3.25	0.01
AUL-18-08	1702413	330.5	332.0	1.5		1702413 Drill Core	3.09	0.008
AUL-18-08	1702414	332.0	333.5	1.5		1702414 Drill Core	3.91	0.01
AUL-18-08	1702415	333.5	335.0	1.5		1702415 Drill Core	3.41	0.008
AUL-18-08	1702416	335.0	336.5	1.5		1702416 Drill Core	2.76	0.006
AUL-18-08	1702417	336.5	338.0	1.5		1702417 Drill Core	3.32	0.006
AUL-18-08	1702418	338.0	339.5	1.5		1702418 Drill Core	2.93	0.009
AUL-18-08	1702419	339.5	341.0	1.5		1702419 Drill Core	3.02	<0.005
AUL-18-08	1702420				217	1702420 Rock Pulp	0.07	0.53
AUL-18-08	1702421	341	342.5	1.5		1702421 Drill Core	3.75	0.006
AUL-18-08	1702422	342.5	344	1.5		1702422 Drill Core	3.18	0.006
AUL-18-08	1702423	344	345	1		1702423 Drill Core	2.26	<0.005
AUL-18-08	1702424	345	346.5	1.5		1702424 Drill Core	3.12	0.005
AUL-18-08	1702425				blank	1702425 Rock	0.19	<0.005
AUL-18-08	1702426	346.5	348	1.5		1702426 Drill Core	3.21	<0.005
AUL-18-08	1702427	348	349.5	1.5		1702427 Drill Core	2.88	0.006
AUL-18-08	1702428	349.5	351	1.5		1702428 Drill Core	3.26	0.005
AUL-18-08	1702429	351	352.5	1.5		1702429 Drill Core	2.99	0.011
AUL-18-08	1702430	352.5	354	1.5		1702430 Drill Core	3.05	0.01
AUL-18-08	1702431	354	355	1		1702431 Drill Core	1.89	0.006
AUL-18-08	1702432	355	355.9	0.9		1702432 Drill Core	1.98	0.007
AUL-18-08	1702433	355.9	357	1.1		1702433 Drill Core	2.66	0.005
AUL-18-08	1702434	357	358.5	1.5		1702434 Drill Core	3.24	<0.005
AUL-18-08	1702435				216	1702435 Rock Pulp	0.05	6.448
AUL-18-08	1702436	358.5	360	1.5		1702436 Drill Core	3.05	0.007
AUL-18-08	1702437	360	361.5	1.5		1702437 Drill Core	2.95	0.006
AUL-18-08	1702438	361.5	363	1.5		1702438 Drill Core	3.53	<0.005
AUL-18-08	1702439	363	364.5	1.5		1702439 Drill Core	2.59	0.012
AUL-18-08	1702440	364.5	366	1.5		1702440 Drill Core	3.86	0.018
AUL-18-08	1702441	366	367.5	1.5		1702441 Drill Core	3.08	0.011
AUL-18-08	1702442	367.5	369	1.5		1702442 Drill Core	3.12	0.012
AUL-18-08	1702443	369	370.5	1.5		1702443 Drill Core	3.13	0.046
AUL-18-08	1702444	370.5	372	1.5		1702444 Drill Core	4.04	0.006
AUL-18-08	1702445				217	1702445 Rock Pulp	0.06	6.497
AUL-18-08	1702446	372	373.5	1.5		1702446 Drill Core	3.24	0.026
AUL-18-08	1702447	373.5	375	1.5		1702447 Drill Core	3.49	0.018

Samples

AUL-18-08	1702448	375	376.5	1.5	10	1702448 Drill Core	3.27	0.028
AUL-18-08	1702449	376.5	378	1.5	10	1702449 Drill Core	3.58	0.008
AUL-18-08	1702450			blank	10	1702450 Rock	0.18	<0.005
AUL-18-08	1702451	378	379.5	1.5	10	1702451 Drill Core	3.33	<0.005
AUL-18-08	1702452	379.5	381	1.5	10	1702452 Drill Core	3.21	0.034
AUL-18-08	1702453	381	382.5	1.5	10	1702453 Drill Core	3.09	0.031
AUL-18-08	1702454	382.5	384	1.5	10	1702454 Drill Core	3.53	0.036
AUL-18-08	1702455	384	385.5	1.5	10	1702455 Drill Core	3.26	0.041
AUL-18-08	1702456	385.5	387	1.5	10	1702456 Drill Core	3.53	0.063
AUL-18-08	1702457	387	388.5	1.5	10	1702457 Drill Core	3.3	0.075
AUL-18-08	1702458	388.5	390	1.5	10	1702458 Drill Core	3.72	0.015
AUL-18-08	1702459	390	391.5	1.5	10	1702459 Drill Core	3.5	0.012
AUL-18-08	1702460	391.5	393	1.5	10	1702460 Drill Core	3.13	0.011
AUL-18-08	1702461	393	394.5	1.5	10	1702461 Drill Core	4.15	0.008
AUL-18-08	1702462	394.5	396	1.5		1702462 Drill Core	3.43	<0.005
AUL-18-08	1702463	396	397.5	1.5		1702463 Drill Core	3.62	<0.005
AUL-18-08	1702464	397.5	399	1.5		1702464 Drill Core	3.32	0.005
AUL-18-08	1702465	399	400.5	1.5		1702465 Drill Core	3.8	<0.005
AUL-18-08	1702466	400.5	402	1.5		1702466 Drill Core	3.67	<0.005
AUL-18-08	1702467	402	403.5	1.5		1702467 Drill Core	3.74	<0.005
AUL-18-08	1702468	403.5	405	1.5		1702468 Drill Core	3.1	<0.005
AUL-18-08	1702469	405	406.5	1.5		1702469 Drill Core	3.82	<0.005
AUL-18-08	1702470				217	1702470 Rock Pulp	0.06	6.545
AUL-18-08	1702471	406.5	408	1.5		1702471 Drill Core	3.76	0.017
AUL-18-08	1702472	408	409.5	1.5		1702472 Drill Core	3.51	<0.005
AUL-18-08	1702473	409.5	411	1.5		1702473 Drill Core	3.68	<0.005
AUL-18-08	1702474	411	412.5	1.5		1702474 Drill Core	3.47	<0.005
AUL-18-08	1702475			blank		1702475 Rock	0.15	<0.005
AUL-18-08	1702476	412.5	414.1	1.6		1702476 Drill Core	3.99	<0.005
AUL-18-08	1702477	414.1	415.5	1.4		1702477 Drill Core	3.06	<0.005
AUL-18-08	1702478	415.5	417	1.5		1702478 Drill Core	3.44	<0.005
AUL-18-08	1702479	417	418.5	1.5		1702479 Drill Core	3.7	<0.005
AUL-18-08	1702480	418.5	420	1.5		1702480 Drill Core	3.38	<0.005
AUL-18-08	1702481	420	421	1		1702481 Drill Core	2.35	<0.005
AUL-18-08	1702482	421	422	1		1702482 Drill Core	2.19	0.011
AUL-18-08	1702483	422	423.5	1.5		1702483 Drill Core	3.55	0.005
AUL-18-08	1702484	423.5	425	1.5		1702484 Drill Core	3.57	<0.005
AUL-18-08	1702485				216	1702485 Rock Pulp	0.05	6.575
AUL-18-08	1702486	425	426.5	1.5		1702486 Drill Core	3.46	0.013
AUL-18-08	1702487	426.5	428	1.5		1702487 Drill Core	3.33	0.007
AUL-18-08	1702488	428	429.5	1.5		1702488 Drill Core	3.11	<0.005
AUL-18-08	1702489	429.5	431	1.5		1702489 Drill Core	3.63	<0.005
AUL-18-08	1702490	431	432.1	1.1		1702490 Drill Core	2.71	0.006

Samples

AUL-18-08	1702491	432.1	433.5	1.4				1702491 Drill Core	3.12	<0.005
AUL-18-08	1702492	433.5	435	1.5				1702492 Drill Core	2.8	<0.005
AUL-18-08	1702493	435	436.5	1.5				1702493 Drill Core	3.59	<0.005
AUL-18-08	1702494	436.5	438	1.5				1702494 Drill Core	3.44	0.007
AUL-18-08	1702495				217			1702495 Rock Pulp	0.04	6.447
AUL-18-08	1702496	438	439.5	1.5				1702496 Drill Core	2.81	0.013
AUL-18-08	1702497	439.5	441	1.5				1702497 Drill Core	4.29	0.006
AUL-18-08	1702498	441	442.5	1.5				1702498 Drill Core	3.18	<0.005
AUL-18-08	1702499	442.5	444	1.5				1702499 Drill Core	4.5	<0.005
AUL-18-08	1702500						blank	1702500 Rock	0.17	<0.005
AUL-18-08	1702501	444	445.5	1.5				1702501 Drill Core	3.2	0.006
AUL-18-08	1702502	445.5	447	1.5				1702502 Drill Core	3.73	<0.005
AUL-18-08	1702503	447	448	1				1702503 Drill Core	2.22	<0.005
AUL-18-08	1702504	448	448.8	0.75		75	15	1702504 Drill Core	0.33	<0.005
AUL-18-08	1702505	448.8	449.6	0.85		75	15	1702505 Drill Core	2.52	<0.005
AUL-18-08	1702506	449.6	450.9	1.3				1702506 Drill Core	2.9	<0.005
AUL-18-08	1702507	450.9	452	1.1		50	10	1702507 Drill Core	2.13	<0.005
AUL-18-08	1702508	452	453	1		25	10	1702508 Drill Core	2.44	0.007
AUL-18-08	1702509	453	453.6	0.6			5	1702509 Drill Core	1.05	0.006
AUL-18-08	1702510	453.6	454.5	0.9			5	1702510 Drill Core	1.93	0.006
AUL-18-08	1702511	454.5	455.6	1.1			5	1702511 Drill Core	2.49	0.007
AUL-18-08	1702512	455.6	456.5	0.9				1702512 Drill Core	2.11	<0.005
AUL-18-08	1702513	456.5	457.5	1				1702513 Drill Core	2.59	<0.005
AUL-18-08	1702514	457.5	459	1.5				1702514 Drill Core	3.52	0.005
AUL-18-08	1702515	459	460.5	1.5				1702515 Drill Core	3.22	<0.005
AUL-18-08	1702516	460.5	462	1.5				1702516 Drill Core	3.62	<0.005
AUL-18-08	1702517	462	463.5	1.5				1702517 Drill Core	3.17	<0.005
AUL-18-08	1702518	463.5	465	1.5				1702518 Drill Core	3.77	<0.005
AUL-18-08	1702519	465	466.5	1.5				1702519 Drill Core	3.11	<0.005
AUL-18-08	1702520				217			1702520 Rock Pulp	0.05	6.339
AUL-18-08	1702521	466.5	468	1.5				1702521 Drill Core	3.28	<0.005
AUL-18-08	1702522	468	469.5	1.5				1702522 Drill Core	2.9	<0.005
AUL-18-08	1702523	469.5	471	1.5				1702523 Drill Core	4.17	0.005
AUL-18-08	1702524	471	472.5	1.5				1702524 Drill Core	3.75	<0.005
AUL-18-08	1702525						blank	1702525 Rock	0.12	<0.005
AUL-18-08	1702526	472.5	474	1.5				1702526 Drill Core	3.62	0.009
AUL-18-08	1702527	474	475.5	1.5				1702527 Drill Core	2.17	<0.005
AUL-18-08	1702528	475.5	477	1.5				1702528 Drill Core	4.67	<0.005
AUL-18-08	1702529	477	478.5	1.5				1702529 Drill Core	3.44	0.005
AUL-18-08	1702530	478.5	480	1.5				1702530 Drill Core	3.26	<0.005
AUL-18-08	1702531	480	481.5	1.5				1702531 Drill Core	3.78	<0.005
AUL-18-08	1702532	481.5	483	1.5				1702532 Drill Core	3.72	<0.005
AUL-18-08	1702533	483	484.5	1.5				1702533 Drill Core	3.23	<0.005

Samples

AUL-18-08	1702534	484.5	486	1.5
AUL-18-08	1702535			
AUL-18-08	1702536	486	487.5	1.5
AUL-18-08	1702537	487.5	489	1.5
AUL-18-08	1702538	489	490.5	1.5
AUL-18-08	1702539	490.5	492	1.5

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1702534 Drill Core	3.85	0.007
1702535 Rock Pulp		6.336
1702536 Drill Core	3.28	<0.005
1702537 Drill Core	3.3	<0.005
1702538 Drill Core	3.41	<0.005
1702539 Drill Core	3.11	<0.005

Header

DDH ID	AUL-18-09						
	Claim #	East	North	Az	Dip	EOH (m)	(Nad 83)
Location	3019086	592230	5483290	180	-50	252.0	
Purpose	West extension to MikWam Deposit						
Start date	March 24,2018						
End date	March 29,2018						
Drill Contractor	NPLH						
Logged By	T.Keast						
Comments							

Description

BHID	From	To	Litho	Comment
AUL-18-09	0	50.5	CAS	Casing through overburden
AUL-18-09	50.5	57.5	CONGL	<p>CONGLOMERATE - Distinct clasts rounded to slightly elongate clast supported conglomerate.</p> <p>Several dark black finer grained clasts.</p> <p>55.0-56.0 Broken blocky missing core.</p>
AUL-18-09	57.5	74	ARGgry	<p>ARGILLITE Grey - Light grey bleached with distinct intervals of bedded/banded fine material.</p> <p>Bleaching overprints the texture and leaves a massive appearance. Possible wacke interbeds.</p> <p>62.0 - 65.0 weathered limonitic broken blocky missing core.</p> <p>Sharp upper contact</p>
AUL-18-09	74.0	140.5	INTRUSIC	<p>INTRUSION?- Light grey massive possibly bleached greywacke/conglomerate sequence. Identified as possible intrusion based on presence of 1-2 mm qtz eyes in fine sericitic massive groundmass. Not fresh crystalline appearance. Possibly bleached altered wacke, however bedding banding compositional changes are not readily identified.</p> <p>Unit is bleached with broken blocky core, limonitic fractures down to 99.0 metres</p> <p>116.6 Distinct 10 cm angular black clast or xenolith.</p> <p>Faint darker intervals suggest remnant bedding/banding</p> <p>Upper contact in broken block core, based on last identifiable bedding/banding.</p>
AUL-18-09	140.5	164.3	CONGL	<p>CONGLOMERATE - Distinct round clasts, flattened in light grey gritty groundmass. Local intervals of lightly banded bedded finer material suggest argillite interfingering.</p> <p>Distinct black clasts down unit</p> <p>156.9 - 159.0 Distinct fine grained grey banded/bedded interbed.</p> <p>Abrupt upper contact</p>

Description

AUL-18-09	164.3	175	INTRUSIC	<p>INTRUSION? - Light grey massive possibly bleached Argillite and conglomerate sequence. Identified as possible intrusion based on presence of 1-2 mm dark qtz eyes in fine sericitic groundmass. Not fresh crystalline appearance.</p> <p>168.0-174.0 5% Qtz veins in stockwork parallel and crosscutting foliation. 1% fine py</p> <p>Abrupt upper contact</p>
AUL-18-09	175	189.5	CONGL	<p>CONGLOMERATE - Distinct round clasts, flattened in light grey gritty groundmass. Local intervals of lightly banded bedded finer material suggest argillite interfingering.</p> <p>Sericite alteration increasing down unit, clast outlines less well defined</p> <p>Sharp upper contact</p>
AUL-18-09	189.5	193.7	INTRUSIC	<p>INTRUSION? - Light grey massive possibly bleached Argillite and conglomerate sequence. Identified as possible intrusion based on presence of 1-2 mm dark qtz eyes in fine sericitic groundmass. Not fresh crystalline appearance.</p> <p>Grey banded in places, locally sericite rich along fractures.</p>
AUL-18-09	193.7	199.4	ARGgry	<p>ARGILLITE Grey- Distinct banding bedding.</p> <p>Dark grey fine grained.</p> <p>Sharp upper contact, brecciated</p>
AUL-18-09	199.4	229	INTRUSIC	<p>INTRUSION? - Light grey massive Identified as possible intrusion based on presence of 1-2 mm dark qtz eyes in fine sericitic groundmass. Not fresh crystalline appearance.</p> <p>Foliated</p> <p>196.5 - 197.5 Broken blocky rubbled core</p>

Description

207.6 - 208.5 Clear-white qtz vein 1% fine py tr po.

Sharp upper contact

AUL-18-09

229

252 WACKE

GREYWACKE - Light grey massive weakly foliated. Granular gritty texture, massive with faint laminations bands . Very light indistinct gradually increasing in recognition down unit.

Local 0.5mm magnetite stringer rare.

Bands/beds have soft margins not clear sharp beds. Beds with wispy dark Biotite

Gradational from above unit, possible decreasing alteration overprint.

EOH - 252.0 m Casing Left in Hole.

Mineralization

BHID	From	To	Qtz Veins %	Py %	Po %	Arseno %	Other	Comments	Conductors (tested with ohmeter)
AUL-18-09	0.0	50.5						Casing	
AUL-18-09	50.5	74.0							
AUL-18-09	74.0	140.5		0.5					
AUL-18-09	168.0	174.0	5	0.5				White veins stockwork, parallel and crosscutting foliation	
AUL-18-09	174.0	190.0		0.5	0.25			Py in cubes, single po stringer	
AUL-18-09	207.6	208.5	90	2	0.5			Fine disseminations in clear/white vein	

Structure

BHID	Depth	Deg to CA	Comment	Comment
AUL-18-09	52.0	30	Foliation	Congl clast
AUL-18-09	57.0	30	Foliation	Congl clast
AUL-18-09	61.0	40	Foliation	
AUL-18-09	66.0	40	Foliation	Banding/bedding
AUL-18-09	73.0	35	Foliation	Banding/bedding
AUL-18-09	88.0	40	Foliation	
AUL-18-09	96.0	25	Foliation	
AUL-18-09	105.0	35	Foliation	
AUL-18-09	113.0	40	Foliation	
AUL-18-09	124.0	30	Foliation	
AUL-18-09	130.0	25	Foliation	
AUL-18-09	135.0	20	Foliation	
AUL-18-09	141.0	25	Foliation	Banding/bedding
AUL-18-09	156.0	20	Foliation	Congl clast
AUL-18-09	163.0	35	Foliation	
AUL-18-09	172.0	35	Foliation	Banding/bedding
AUL-18-09	195.0	30	Foliation	Banding/bedding
AUL-18-09	199.4	30	Foliation	Contact
AUL-18-09	208.5	45	Foliation	weak
AUL-18-09	221.0	30	Foliation	
AUL-18-09	236.0	40	Foliation	
AUL-18-09	244.0	45	Foliation	
AUL-18-09	251.0	45	Foliation	

MagSuscept

BHID	Depth	MS	<i>Terraplus KT-5 Magnetic Susceptibility Meter</i>
AUL-18-09	51.0	0.16	
AUL-18-09	53.0	0.30	
AUL-18-09	57.0	0.14	
AUL-18-09	59.0	0.20	
AUL-18-09	62.0	0.17	
AUL-18-09	66.0	0.19	
AUL-18-09	69.0	0.02	
AUL-18-09	72.0	0.02	
AUL-18-09	73.0	0.09	
AUL-18-09	76.0	0.84	
AUL-18-09	78.0	0.12	
AUL-18-09	81.0	0.13	
AUL-18-09	84.0	0.45	
AUL-18-09	87.0	0.11	
AUL-18-09	90.0	0.02	
AUL-18-09	93.0	0.28	
AUL-18-09	96.0	0.04	
AUL-18-09	100.0	0.28	
AUL-18-09	102.0	0.00	
AUL-18-09	105.0	0.00	
AUL-18-09	108.0	0.05	
AUL-18-09	111.0	0.13	
AUL-18-09	114.5	0.08	
AUL-18-09	117.0	0.43	
AUL-18-09	120.0	0.67	
AUL-18-09	123.0	0.07	
AUL-18-09	126.0	0.16	
AUL-18-09	129.0	0.14	
AUL-18-09	135.0	0.06	
AUL-18-09	138.0	1.50	
AUL-18-09	139.0	0.25	
AUL-18-09	141.0	0.12	
AUL-18-09	147.0	0.31	
AUL-18-09	151.0	0.49	
AUL-18-09	156.0	0.14	
AUL-18-09	163.0	0.17	
AUL-18-09	167.0	0.50	
AUL-18-09	171.0	0.10	
AUL-18-09	176.0	0.21	
AUL-18-09	180.0	0.27	
AUL-18-09	185.0	0.16	
AUL-18-09	189.0	1.02	
AUL-18-09	192.0	0.28	
AUL-18-09	200.0	0.12	
AUL-18-09	204.0	0.34	
AUL-18-09	211.0	0.34	

MagSuscept

AUL-18-09	216.0	0.10
AUL-18-09	219.0	1.45
AUL-18-09	222.0	0.87
AUL-18-09	225.0	0.25
AUL-18-09	229	1.27
AUL-18-09	236	1.81
AUL-18-09	243	0.63
AUL-18-09	246	0.84
AUL-18-09	250	0.28

RQD

BHID	From	To	Recovery	RQD	Comments
AUL-18-09	0	51			Overburden
AUL-18-09	51.0	54.0	1.8	1.5	
AUL-18-09	54.0	57.0	2.2	0.9	
AUL-18-09	57.0	60.0	2.8	2.4	
AUL-18-09	60.0	63.0	2.9	1.9	
AUL-18-09	63.0	66.0	2.8	2.1	
AUL-18-09	66.0	69.0	3.0	2.7	
AUL-18-09	69.0	72.0	2.9	1.1	
AUL-18-09	72.0	75.0	2.8	0.8	
AUL-18-09	75.0	78.0	2.8	0.8	
AUL-18-09	78.0	81.0	2.8	0.8	
AUL-18-09	81.0	84.0	2.9	1.2	
AUL-18-09	84.0	87.0	3.0	1.6	
AUL-18-09	87.0	90.0	2.9	1.4	
AUL-18-09	90.0	93.0	2.9	1.2	
AUL-18-09	93.0	96.0	2.9	2.1	
AUL-18-09	96.0	99.0	2.8	1.9	
AUL-18-09	99.0	102.0	3.0	2.4	
AUL-18-09	102.0	105.0	3.0	2.8	
AUL-18-09	105.0	108.0	3.0	2.5	
AUL-18-09	108.0	111.0	3.0	2.8	
AUL-18-09	111.0	114.0	3.0	2.8	
AUL-18-09	114.0	117.0	3.0	2.9	
AUL-18-09	117.0	120.0	3.0	2.9	
AUL-18-09	120.0	123.0	3.0	2.9	
AUL-18-09	123.0	126.0	3.0	2.8	
AUL-18-09	126.0	129.0	3.0	3.0	
AUL-18-09	129.0	132.0	3.0	2.8	
AUL-18-09	132.0	135.0	3.0	2.9	
AUL-18-09	135.0	138.0	3.0	2.8	
AUL-18-09	138.0	141.0	3.0	2.9	
AUL-18-09	141.0	144.0	2.9	2.7	
AUL-18-09	144.0	147.0	2.9	1.9	
AUL-18-09	147.0	150.0	3.0	3.0	
AUL-18-09	150.0	153.0	3.0	3.0	
AUL-18-09	153.0	156.0	3.0	3.0	
AUL-18-09	156.0	159.0	3.0	2.8	
AUL-18-09	159.0	162.0	3.0	3.0	
AUL-18-09	162.0	165.0	3.0	2.9	
AUL-18-09	165.0	168.0	3.0	3.0	
AUL-18-09	168.0	171.0	3.0	2.9	
AUL-18-09	171.0	174.0	3.0	3.0	
AUL-18-09	174.0	177.0	3.0	2.9	
AUL-18-09	177.0	180.0	3.0	2.9	
AUL-18-09	180.0	183.0	3.0	2.9	
AUL-18-09	183.0	186.0	3.0	3.0	

RQD

AUL-18-09	186.0	189.0	3.0	3.0
AUL-18-09	189.0	192.0	3.0	3.0
AUL-18-09	192.0	195.0	3.0	2.9
AUL-18-09	195.0	198.0	3.0	2.1
AUL-18-09	198.0	201.0	3.0	2.6
AUL-18-09	201.0	204.0	3.0	2.9
AUL-18-09	204.0	207.0	3.0	3.0
AUL-18-09	207.0	210.0	3.0	3.0
AUL-18-09	210.0	213.0	3.0	3.0
AUL-18-09	213.0	216.0	3.0	3.0
AUL-18-09	216.0	219.0	3.0	3.0
AUL-18-09	219.0	222.0	3.0	3.0
AUL-18-09	222.0	225.0	3.0	3.0
AUL-18-09	225.0	228.0	3.0	2.8
AUL-18-09	228.0	231.0	3.0	3.0
AUL-18-09	231.0	234.0	3.0	3.0
AUL-18-09	234.0	237.0	3.0	2.9
AUL-18-09	237.0	240.0	3.0	2.9
AUL-18-09	240.0	243.0	3.0	3.0
AUL-18-09	243.0	246.0	3.0	3.0
AUL-18-09	246.0	249.0	3.0	3.0
AUL-18-09	249.0	252.0	3.0	3.0

Reflex

BHID	Depth	Az	Az Correct	Dip	Mag Field	Use Az	Use Dip	Comments
AUL-18-09	66.0	187.1	174.6	-49.5	57933.0			
AUL-18-09	117.0	186.5	174.0	-49.4	57253.0			
AUL-18-09	156.0	185.7	173.2	-49.1	56662.0			
AUL-18-09	186.0	184.5	172.0	-49.6	56372.0			
AUL-18-09	237.0	184.2	171.7	-48.7	55765.0			

Samples

BHID	Sample	From	To	Width	Stand/blank	QV %	Py%	Po%	Arsen Hem	other	wgt	au
AUL-18-09	1702540	50.5	52.0	1.5							1702540 Drill Core	2.92 <0.005
AUL-18-09	1702541	52.0	53.5	1.5							1702541 Drill Core	3.05 <0.005
AUL-18-09	1702542	53.5	55.0	1.5							1702542 Drill Core	1.43 <0.005
AUL-18-09	1702543	55.0	56.5	1.5							1702543 Drill Core	1.54 0.008
AUL-18-09	1702544	56.5	57.5	1.0							1702544 Drill Core	2.08 <0.005
AUL-18-09	1702545				217						1702545 Rock Pulp	0.03 0.511
AUL-18-09	1702546	57.5	59.0	1.5							1702546 Drill Core	3.12 0.008
AUL-18-09	1702547	59.0	60.5	1.5							1702547 Drill Core	3.52 0.006
AUL-18-09	1702548	60.5	62.0	1.5							1702548 Drill Core	5.89 <0.005
AUL-18-09	1702549	62.0	63.5	1.5							1702549 Drill Core	2.27 <0.005
AUL-18-09	1702550				blank						1702550 Rock	0.18 <0.005
AUL-18-09	1702551	63.5	65.0	1.5							1702551 Drill Core	2.85 <0.005
AUL-18-09	1702552	65.0	66.5	1.5							1702552 Drill Core	3.03 <0.005
AUL-18-09	1702553	66.5	68.0	1.5							1702553 Drill Core	3.1 <0.005
AUL-18-09	1702554	68.0	69.5	1.5							1702554 Drill Core	2.82 <0.005
AUL-18-09	1702555	69.5	71.0	1.5							1702555 Drill Core	3.18 <0.005
AUL-18-09	1702556	71.0	72.5	1.5							1702556 Drill Core	2.36 0.011
AUL-18-09	1702557	72.5	74.0	1.5							1702557 Drill Core	1.63 0.026
AUL-18-09	1702558	74.0	75.5	1.5							1702558 Drill Core	1.43 <0.005
AUL-18-09	1702559	75.5	77.0	1.5							1702559 Drill Core	3.84 0.011
AUL-18-09	1702560	77.0	78.5	1.5							1702560 Drill Core	2.45 <0.005
AUL-18-09	1702561	78.5	80.0	1.5							1702561 Drill Core	2.31 <0.005
AUL-18-09	1702562	80.0	81.5	1.5							1702562 Drill Core	2.89 <0.005
AUL-18-09	1702563	81.5	83.0	1.5							1702563 Drill Core	2.75 <0.005
AUL-18-09	1702564	83.0	84.5	1.5							1702564 Drill Core	2.67 <0.005
AUL-18-09	1702565	84.5	86.0	1.5							1702565 Drill Core	2.51 <0.005
AUL-18-09	1702566	86.0	87.5	1.5							1702566 Drill Core	3.01 <0.005
AUL-18-09	1702567	87.5	89.0	1.5							1702567 Drill Core	2.8 0.006
AUL-18-09	1702568	89.0	90.5	1.5							1702568 Drill Core	2.75 0.008
AUL-18-09	1702569	90.5	92.0	1.5							1702569 Drill Core	3.01 <0.005
AUL-18-09	1702570				217						1702570 Rock Pulp	0.07 0.534
AUL-18-09	1702571	92.0	93.5	1.5							1702571 Drill Core	3.18 0.009
AUL-18-09	1702572	93.5	95.0	1.5							1702572 Drill Core	3.02 <0.005
AUL-18-09	1702573	95.0	96.5	1.5							1702573 Drill Core	2.92 <0.005
AUL-18-09	1702574	96.5	98.0	1.5							1702574 Drill Core	2.63 <0.005
AUL-18-09	1702575				blank						1702575 Rock	0.17 <0.005
AUL-18-09	1702576	98.0	99.5	1.5							1702576 Drill Core	1.88 0.008
AUL-18-09	1702577	99.5	101.0	1.5							1702577 Drill Core	2.97 <0.005
AUL-18-09	1702578	101.0	102.5	1.5							1702578 Drill Core	3.48 <0.005
AUL-18-09	1702579	102.5	104.0	1.5							1702579 Drill Core	2.95 <0.005
AUL-18-09	1702580	104.0	105.5	1.5							1702580 Drill Core	3.16 0.006
AUL-18-09	1702581	105.5	107.0	1.5							1702581 Drill Core	2.7 0.005

Samples

AUL-18-09	1702582	107.0	108.5	1.5		1702582 Drill Core	2.95	0.005
AUL-18-09	1702583	108.5	110.0	1.5		1702583 Drill Core	2.92	0.008
AUL-18-09	1702584	110.0	111.5	1.5		1702584 Drill Core	3.42	0.006
AUL-18-09	1702585				216	1702585 Rock Pulp	0.05	6.295
AUL-18-09	1702586	111.5	113.0	1.5		1702586 Drill Core	2.64	0.011
AUL-18-09	1702587	113.0	114.5	1.5		1702587 Drill Core	3.25	<0.005
AUL-18-09	1702588	114.5	116.0	1.5		1702588 Drill Core	3.06	<0.005
AUL-18-09	1702589	116.0	117.5	1.5		1702589 Drill Core	3.11	0.007
AUL-18-09	1702590	117.5	119.0	1.5		1702590 Drill Core	3.11	0.006
AUL-18-09	1702591	119.0	120.5	1.5		1702591 Drill Core	3.25	0.007
AUL-18-09	1702592	120.5	122.0	1.5		1702592 Drill Core	3.06	<0.005
AUL-18-09	1702593	122.0	123.5	1.5		1702593 Drill Core	2.92	<0.005
AUL-18-09	1702594	123.5	125.0	1.5		1702594 Drill Core	2.98	0.01
AUL-18-09	1702595				217	1702595 Rock Pulp	0.06	0.516
AUL-18-09	1702596	125.0	126.5	1.5		1702596 Drill Core	3.08	0.013
AUL-18-09	1702597	126.5	128.0	1.5		1702597 Drill Core	2.95	0.008
AUL-18-09	1702598	128.0	129.5	1.5		1702598 Drill Core	2.88	0.011
AUL-18-09	1702599	129.5	131.0	1.5		1702599 Drill Core	3.05	<0.005
AUL-18-09	1702600				blank	1702600 Rock	0.18	<0.005
AUL-18-09	1702601	131.0	132.5	1.5		1702601 Drill Core	2.87	<0.005
AUL-18-09	1702602	132.5	134.0	1.5		1702602 Drill Core	2.85	<0.005
AUL-18-09	1702603	134.0	135.5	1.5		1702603 Drill Core	3.03	0.013
AUL-18-09	1702604	135.5	137.0	1.5		1702604 Drill Core	3.02	<0.005
AUL-18-09	1702605	137.0	138.5	1.5		1702605 Drill Core	2.94	0.014
AUL-18-09	1702606	138.5	139.5	1.0		1702606 Drill Core	2.1	0.01
AUL-18-09	1702607	139.5	140.5	1.0		1702607 Drill Core	1.84	0.062
AUL-18-09	1702608	140.5	142.0	1.5		1702608 Drill Core	3.28	0.006
AUL-18-09	1702609	142.0	143.5	1.5		1702609 Drill Core	3.25	0.006
AUL-18-09	1702610	143.5	145.0	1.5		1702610 Drill Core	3.06	0.139
AUL-18-09	1702611	145.0	146.5	1.5		1702611 Drill Core	1.83	0.007
AUL-18-09	1702612	146.5	148.0	1.5		1702612 Drill Core	3.08	0.011
AUL-18-09	1702613	148.0	149.5	1.5		1702613 Drill Core	3.29	0.024
AUL-18-09	1702614	149.5	151.0	1.5		1702614 Drill Core	3.09	0.016
AUL-18-09	1702615	151.0	152.5	1.5		1702615 Drill Core	2.49	0.016
AUL-18-09	1702616	152.5	154.0	1.5		1702616 Drill Core	3.19	0.011
AUL-18-09	1702617	154.0	155.5	1.5		1702617 Drill Core	3.41	0.007
AUL-18-09	1702618	155.5	157.0	1.5		1702618 Drill Core	3.08	0.008
AUL-18-09	1702619	157.0	158.5	1.5		1702619 Drill Core	2.15	0.006
AUL-18-09	1702620				217	1702620 Rock Pulp	0.06	0.531
AUL-18-09	1702621	158.5	160.0	1.5		1702621 Drill Core	3.97	0.021
AUL-18-09	1702622	160.0	161.5	1.5		1702622 Drill Core	3.3	0.007
AUL-18-09	1702623	161.5	163.0	1.5		1702623 Drill Core	3.15	0.008
AUL-18-09	1702624	163.0	164.3	1.3		1702624 Drill Core	2.75	0.029

Samples

AUL-18-09	1702625			blank				1702625 Rock	0.17	<0.005
AUL-18-09	1702626	164.3	165.5	1.2				1702626 Drill Core	2.56	0.007
AUL-18-09	1702627	165.5	167.0	1.5				1702627 Drill Core	3.19	0.008
AUL-18-09	1702628	167.0	168.0	1.0				1702628 Drill Core	2.32	0.017
AUL-18-09	1702629	168.0	169.0	1.0		3	1	1702629 Drill Core	2.13	0.014
AUL-18-09	1702630	169.0	170.0	1.0		5	1	1702630 Drill Core	2.07	0.019
AUL-18-09	1702631	170.0	171.0	1.0		5	1	1702631 Drill Core	2.01	0.017
AUL-18-09	1702632	171.0	172.0	1.0		7	1	1702632 Drill Core	2.27	0.01
AUL-18-09	1702633	172.0	173.0	1.0		5	1	1702633 Drill Core	1.97	0.007
AUL-18-09	1702634	173.0	174.0	1.0		5	1	1702634 Drill Core	2.18	0.011
AUL-18-09	1702635				216			1702635 Rock Pulp	0.04	7.137
AUL-18-09	1702636	174.0	175.0	1.0		3		1702636 Drill Core	2.26	0.026
AUL-18-09	1702637	175.0	176.0	1.0				1702637 Drill Core	2.12	0.015
AUL-18-09	1702638	176.0	177.0	1.0				1702638 Drill Core	2.03	0.006
AUL-18-09	1702639	177.0	178.5	1.5				1702639 Drill Core	3.45	0.008
AUL-18-09	1702640	178.5	180.0	1.5				1702640 Drill Core	3.17	0.022
AUL-18-09	1702641	180.0	181.5	1.5				1702641 Drill Core	3.4	0.007
AUL-18-09	1702642	181.5	183.0	1.5				1702642 Drill Core	3.07	0.008
AUL-18-09	1702643	183.0	184.5	1.5				1702643 Drill Core	3.39	0.008
AUL-18-09	1702644	184.5	186.0	1.5				1702644 Drill Core	3.49	0.006
AUL-18-09	1702645				217			1702645 Rock Pulp	0.07	0.531
AUL-18-09	1702646	186.0	187.5	1.5				1702646 Drill Core	3.05	0.014
AUL-18-09	1702647	187.5	188.5	1.0				1702647 Drill Core	2.23	0.01
AUL-18-09	1702648	188.5	189.5	1.0				1702648 Drill Core	2.36	0.005
AUL-18-09	1702649	189.5	191.0	1.5				1702649 Drill Core	3.12	0.006
AUL-18-09	1702650							1702650 Rock	0.17	<0.005
AUL-18-09	1702651	191.0	192.5	1.5				1702651 Drill Core	3.05	0.019
AUL-18-09	1702652	192.5	193.7	1.2				1702652 Drill Core	2.65	0.008
AUL-18-09	1702653	193.7	195.0	1.3				1702653 Drill Core	2.69	0.012
AUL-18-09	1702654	195.0	196.5	1.5				1702654 Drill Core	3.24	0.049
AUL-18-09	1702655	196.5	198.0	1.5				1702655 Drill Core	2.52	0.025
AUL-18-09	1702656	198.0	199.4	1.4				1702656 Drill Core	2.85	0.114
AUL-18-09	1702657	199.4	200.5	1.1				1702657 Drill Core	2.42	0.005
AUL-18-09	1702658	200.5	202.0	1.5				1702658 Drill Core	3.21	<0.005
AUL-18-09	1702659	202.0	203.5	1.5				1702659 Drill Core	3.04	0.012
AUL-18-09	1702660	203.5	205.0	1.5				1702660 Drill Core	3.15	0.026
AUL-18-09	1702661	205.0	206.0	1.0				1702661 Drill Core	2.14	0.013
AUL-18-09	1702662	206.0	207.6	1.6				1702662 Drill Core	3.27	0.075
AUL-18-09	1702663	207.6	208.5	0.9		90	1 0.5	1702663 Drill Core	1.87	0.409
AUL-18-09	1702664	208.5	209.5	1.0				1702664 Drill Core	2.19	0.038
AUL-18-09	1702665	209.5	211.0	1.5				1702665 Drill Core	2.64	0.016
AUL-18-09	1702666	211.0	212.5	1.5				1702666 Drill Core	2.26	<0.005
AUL-18-09	1702667	212.5	214.0	1.5				1702667 Drill Core	4.07	<0.005

Samples

AUL-18-09	1702668	214.0	215.5	1.5		1702668	Drill Core	3.26	0.033
AUL-18-09	1702669	215.5	217.0	1.5		1702669	Drill Core	3.19	0.006
AUL-18-09	1702670				216	1702670	Rock Pulp	0.05	6.64
AUL-18-09	1702671	217.0	218.5	1.5		1702671	Drill Core	3.17	0.013
AUL-18-09	1702672	218.5	220.0	1.5		1702672	Drill Core	3.72	<0.005
AUL-18-09	1702673	220.0	221.5	1.5		1702673	Drill Core	3.22	0.006
AUL-18-09	1702674	221.5	223.0	1.5		1702674	Drill Core	3.16	0.038
AUL-18-09	1702675				blank	1702675	Rock	0.16	<0.005
AUL-18-09	1702676	223.0	224.5	1.5		1702676	Drill Core	3.27	<0.005
AUL-18-09	1702677	224.5	226.0	1.5		1702677	Drill Core	3.3	0.007
AUL-18-09	1702678	226.0	227.5	1.5		1702678	Drill Core	3.13	0.006
AUL-18-09	1702679	227.5	229.0	1.5		1702679	Drill Core	3.4	<0.005
AUL-18-09	1702680	229.0	230.5	1.5		1702680	Drill Core	3.29	<0.005
AUL-18-09	1702681	230.5	232.0	1.5		1702681	Drill Core	3.25	0.006
AUL-18-09	1702682	232.0	233.5	1.5		1702682	Drill Core	3.26	0.025
AUL-18-09	1702683	233.5	235.0	1.5		1702683	Drill Core	3.27	<0.005
AUL-18-09	1702684	235.0	236.5	1.5		1702684	Drill Core	3.06	0.007
AUL-18-09	1702685				216	1702685	Rock Pulp	0.04	6.329
AUL-18-09	1702686	236.5	238.0	1.5		1702686	Drill Core	2.96	0.012
AUL-18-09	1702687	238.0	239.5	1.5		1702687	Drill Core	3.04	<0.005
AUL-18-09	1702688	239.5	241.0	1.5		1702688	Drill Core	3.33	<0.005
AUL-18-09	1702689	241.0	242.5	1.5		1702689	Drill Core	3.22	<0.005
AUL-18-09	1702690	242.5	244.0	1.5		1702690	Drill Core	3.16	<0.005
AUL-18-09	1702691	244.0	245.5	1.5		1702691	Drill Core	2.27	0.007
AUL-18-09	1702692	245.5	247.0	1.5		1702692	Drill Core	4.27	0.006
AUL-18-09	1702693	247.0	248.5	1.5		1702693	Drill Core	3.17	0.006
AUL-18-09	1702694	248.5	250.0	1.5		1702694	Drill Core	3.15	<0.005
AUL-18-09	1702695				217	1702695	Rock Pulp	0.06	0.52
AUL-18-09	1702696	250.0	251.0	1.0		1702696	Drill Core	2.2	0.009
AUL-18-09	1702697	251.0	252.0	1.0		1702697	Drill Core	2.12	<0.005

Header

DDH ID	AUL-18-10					
	Claim #	East	North	Az	Dip	EOH (m) (Nad 83)
Location	4249337	591375	5481790	155	-50	245
Purpose	Magnetic anomaly 1.7 km southwest Mikwam					
Start date	April 01,2018					
End date	April 03,2018					
Drill Contractor	NPLH					
Logged By	T.Keast					
Comments						

Description

BHID	From	To	Litho	Comment
AUL-18-10	0	30.5	CAS	Casing through overburden
AUL-18-10	30.5	245.0	QEPORPH	<p>QUARTZ EYE PORPHYRY- Distinct redish orange intrusion with well defined qtz eyes generally 1-33 mm in size.</p> <p>Intrusion is highly strained with a moderate foliation throughout, qtz phenocrysts in strained eye shaped and rotated.</p> <p>Distinct sericite in parallel between qtz eyes define foliation</p> <p>Pervasive sericite throughout the intrusion. Local narrow m scale strong shear zones.</p> <p>Fine, <0.5 mm grains of magnetite, rare graine of py.</p> <p>Unit is readily scratched.</p> <p>Clots of dull white feldspar/carbonate rich material in foliated discontinuous stringers and veins.</p> <p>Rare qtz vein clear, cross cutting up to several cm wide.</p> <p>Chlorite light green wisps scattered throughout along foliation.</p> <p>125.2-135.0 broken blocky core, into highly sheared light sericite rich.</p> <p>136.5-137.0 Distinct shear/fault soft sericitic fault gouge.</p> <p>144.5 2cm quartz vein in sheared QE porph</p> <p>144.0-147.0 Light sericite rich strongly foliated.</p> <p>146.1-146.5 QV with tr py</p> <p>175.5 - 176.5 Local shear, soft sericite rich gouge.</p> <p>@183 gradual development of weak formed stringers of qtz sericite discontinuous several cm long</p> <p>stringers <1 cm wide.</p> <p>204.5 207.5 50% clear qtz veins. Altered wall rock fragments within vein. Possible late event veins.</p>

Description

EOH - 245.0 m Casing Left in Hole.

Mineralization

BHID	From	To	Qtz Veins %	Py %	Po %	Arseno %	Other	Comments	Conductors (tested with ohmeter)
AUL-18-10	0.0	30.5						Casing	
AUL-18-10	30.5	204.5		0.5				0.5 Fine dissem magnetite.	
AUL-18-10	204.5	207.5	50						

Structure

BHID	Depth	Deg to CA	Comment	Comment
AUL-18-10	35.0	20	Foliation	
AUL-18-10	40.0	20	Foliation	
AUL-18-10	53.0	15	Foliation	
AUL-18-10	57.0	25	Foliation	
AUL-18-10	62.0	30	Foliation	
AUL-18-10	75.0	20	Foliation	
AUL-18-10	78.0	20	Foliation	
AUL-18-10	96.0	25	Foliation	
AUL-18-10	108.0	30	Foliation	
AUL-18-10	113.0	15	Foliation	
AUL-18-10	123.0	20	Foliation	
AUL-18-10	140.0	25	Foliation	
AUL-18-10	162.0	30	Foliation	
AUL-18-10	176.0	20	Foliation	Shear 2 m wide
AUL-18-10	190.0	20	Foliation	
AUL-18-10	211.0	35	Foliation	
AUL-18-10	225.0	35	Foliation	
AUL-18-10	239.0	30	Foliation	

MagSuscept

BHID	Depth	MS	<i>Terraplus KT-5 Magnetic Susceptibility Meter</i>
AUL-18-10	35.0	7.90	
AUL-18-10	39.0	8.58	
AUL-18-10	42.0	8.95	
AUL-18-10	45.0	7.85	
AUL-18-10	48.0	9.99	
AUL-18-10	51.0	8.52	
AUL-18-10	54.0	####	
AUL-18-10	57.0	5.42	
AUL-18-10	60.0	4.66	
AUL-18-10	63.0	6.74	
AUL-18-10	66.0	8.63	
AUL-18-10	69.0	9.58	
AUL-18-10	72.0	6.51	
AUL-18-10	75.0	2.89	
AUL-18-10	78.0	6.60	
AUL-18-10	81.0	1.56	
AUL-18-10	84.0	5.17	
AUL-18-10	87.0	9.08	
AUL-18-10	90.0	5.78	
AUL-18-10	93.0	####	
AUL-18-10	96.0	5.24	
AUL-18-10	99.0	3.87	
AUL-18-10	102.0	5.25	
AUL-18-10	105.0	1.82	
AUL-18-10	108.0	4.28	
AUL-18-10	111.0	7.12	
AUL-18-10	118.0	1.62	
AUL-18-10	122.0	0.24	
AUL-18-10	128.0	1.44	
AUL-18-10	135.0	2.76	
AUL-18-10	143.0	0.34	
AUL-18-10	152.0	1.15	
AUL-18-10	162.0	####	
AUL-18-10	170.0	####	
AUL-18-10	177.0	8.29	
AUL-18-10	189.0	6.68	
AUL-18-10	198.0	8.53	
AUL-18-10	212.0	4.69	
AUL-18-10	218.0	####	
AUL-18-10	225.0	9.20	
AUL-18-10	238.0	2.89	
AUL-18-10	245.0	6.02	

RQD

BHID	From	To	Recovery	RQD	Comments
AUL-18-10	0	30.5			Overburden
AUL-18-10	30.5	33.0	1.4	1.0	
AUL-18-10	33.0	36.0	3.0	2.0	
AUL-18-10	36.0	39.0	2.9	2.0	
AUL-18-10	39.0	42.0	3.0	2.9	
AUL-18-10	42.0	45.0	3.0	2.7	
AUL-18-10	45.0	48.0	3.0	2.6	
AUL-18-10	48.0	51.0	3.0	2.9	
AUL-18-10	51.0	54.0	3.0	2.8	
AUL-18-10	54.0	57.0	3.0	3.0	
AUL-18-10	57.0	60.0	3.0	2.8	
AUL-18-10	60.0	63.0	3.0	2.9	
AUL-18-10	63.0	66.0	3.0	2.7	
AUL-18-10	66.0	69.0	3.0	2.8	
AUL-18-10	69.0	72.0	3.0	2.8	
AUL-18-10	72.0	75.0	3.0	2.9	
AUL-18-10	75.0	78.0	3.0	2.9	
AUL-18-10	78.0	81.0	3.0	2.9	
AUL-18-10	81.0	84.0	3.0	3.0	
AUL-18-10	84.0	87.0	3.0	2.8	
AUL-18-10	87.0	90.0	3.0	3.0	
AUL-18-10	90.0	93.0	3.0	3.0	
AUL-18-10	93.0	96.0	3.0	3.0	
AUL-18-10	96.0	99.0	3.0	2.4	
AUL-18-10	99.0	102.0	3.0	2.2	
AUL-18-10	102.0	105.0	3.0	2.7	
AUL-18-10	105.0	108.0	3.0	3.0	
AUL-18-10	108.0	111.0	3.0	2.9	
AUL-18-10	111.0	114.0	3.0	2.9	
AUL-18-10	114.0	117.0	3.0	2.9	
AUL-18-10	117.0	120.0	3.0	2.8	
AUL-18-10	120.0	123.0	3.0	2.9	
AUL-18-10	123.0	126.0	3.0	2.2	
AUL-18-10	126.0	129.0	3.0	3.0	
AUL-18-10	129.0	132.0	3.0	2.8	
AUL-18-10	132.0	135.0	3.0	2.8	
AUL-18-10	135.0	138.0	2.9	1.9	
AUL-18-10	138.0	141.0	3.0	2.2	
AUL-18-10	141.0	144.0	3.0	2.4	
AUL-18-10	144.0	147.0	3.0	2.8	
AUL-18-10	147.0	150.0	3.0	2.8	
AUL-18-10	150.0	153.0	3.0	2.9	
AUL-18-10	153.0	156.0	3.0	3.0	
AUL-18-10	156.0	159.0	3.0	3.0	
AUL-18-10	159.0	162.0	3.0	3.0	
AUL-18-10	162.0	165.0	3.0	2.8	

RQD

AUL-18-10	165.0	168.0	3.0	3.0
AUL-18-10	168.0	171.0	3.0	3.0
AUL-18-10	171.0	174.0	3.0	2.4
AUL-18-10	174.0	177.0	3.0	2.3
AUL-18-10	177.0	180.0	3.0	2.9
AUL-18-10	180.0	183.0	3.0	2.9
AUL-18-10	183.0	186.0	3.0	3.0
AUL-18-10	186.0	189.0	3.0	3.0
AUL-18-10	189.0	192.0	3.0	2.7
AUL-18-10	192.0	195.0	3.0	3.0
AUL-18-10	195.0	198.0	3.0	3.0
AUL-18-10	198.0	201.0	3.0	3.0
AUL-18-10	201.0	204.0	3.0	3.0
AUL-18-10	204.0	207.0	3.0	3.0
AUL-18-10	207.0	210.0	3.0	3.0
AUL-18-10	210.0	213.0	3.0	2.8
AUL-18-10	213.0	216.0	3.0	3.0
AUL-18-10	216.0	219.0	3.0	3.0
AUL-18-10	219.0	222.0	3.0	3.0
AUL-18-10	222.0	225.0	3.0	3.0
AUL-18-10	225.0	228.0	3.0	3.0
AUL-18-10	228.0	231.0	3.0	3.0
AUL-18-10	231.0	234.0	3.0	3.0
AUL-18-10	234.0	237.0	3.0	3.0
AUL-18-10	237.0	240.0	3.0	3.0
AUL-18-10	240.0	243.0	3.0	2.7
AUL-18-10	243.0	245.0	2.0	2.0

Reflex

BHID	Depth	Az	Az Correct	Dip	Mag Field	Use Az	Use Dip	Comments
AUL-18-10	45.0	165.8	153.3	-49.4	55542.0			
AUL-18-10	96.0	167.5	155.0	-47.3	55247.0			
AUL-18-10	147.0	167.7	155.2	-44.5	5576.0			error on sheet for mag
AUL-18-10	198.0	168.2	155.7	-43.1	55529.0			
AUL-18-10	245.0	169.9	157.4	-42.5	55594.0			

Samples

BHID	Sample	From	To	Width	Stand/blank	QV %	Py%	Po%	Arsen Hem	other	wgt	au
AUL-18-10	1702698	30.5	32.0	1.5							1702698 Drill Core	2.35 <0.005
AUL-18-10	1702699	32.0	33.5	1.5							1702699 Drill Core	3.12 0.005
AUL-18-10	1702700				blank						1702700 Rock	0.19 <0.005
AUL-18-10	1702701	33.5	35.0	1.5							1702701 Drill Core	3.24 <0.005
AUL-18-10	1702702	35.0	36.5	1.5							1702702 Drill Core	2.99 0.005
AUL-18-10	1702703	36.5	38.0	1.5							1702703 Drill Core	3.08 <0.005
AUL-18-10	1702704	38.0	39.5	1.5							1702704 Drill Core	2.89 <0.005
AUL-18-10	1702705	39.5	41.0	1.5							1702705 Drill Core	3.28 <0.005
AUL-18-10	1702706	41.0	42.5	1.5							1702706 Drill Core	2.25 <0.005
AUL-18-10	1702707	42.5	44.0	1.5							1702707 Drill Core	3.1 <0.005
AUL-18-10	1702708	44.0	45.5	1.5							1702708 Drill Core	2.25 <0.005
AUL-18-10	1702709	45.5	47.0	1.5							1702709 Drill Core	3.7 <0.005
AUL-18-10	1702710	47.0	48.5	1.5							1702710 Drill Core	3.64 <0.005
AUL-18-10	1702711	48.5	50.0	1.5							1702711 Drill Core	2.79 <0.005
AUL-18-10	1702712	50.0	51.5	1.5							1702712 Drill Core	3.32 <0.005
AUL-18-10	1702713	51.5	53.0	1.5							1702713 Drill Core	2.66 <0.005
AUL-18-10	1702714	53.0	54.5	1.5							1702714 Drill Core	2.87 <0.005
AUL-18-10	1702715	54.5	56.0	1.5							1702715 Drill Core	2.93 <0.005
AUL-18-10	1702716	56.0	57.5	1.5							1702716 Drill Core	3.09 <0.005
AUL-18-10	1702717	57.5	59.0	1.5							1702717 Drill Core	2.32 <0.005
AUL-18-10	1702718	59.0	60.5	1.5							1702718 Drill Core	3.08 <0.005
AUL-18-10	1702719	60.5	62.0	1.5							1702719 Drill Core	2.75 <0.005
AUL-18-10	1702720					217					1702720 Rock Pulp	0.05 6.565
AUL-18-10	1702721	62.0	63.5	1.5							1702721 Drill Core	3.37 0.007
AUL-18-10	1702722	63.5	65.0	1.5							1702722 Drill Core	3.01 <0.005
AUL-18-10	1702723	65.0	66.5	1.5							1702723 Drill Core	2.88 <0.005
AUL-18-10	1702724	66.5	68.0	1.5							1702724 Drill Core	3.27 <0.005
AUL-18-10	1702725				blank						1702725 Rock	0.2 <0.005
AUL-18-10	1702726	68.0	69.5	1.5							1702726 Drill Core	2.59 <0.005
AUL-18-10	1702727	69.5	71.0	1.5							1702727 Drill Core	3.42 <0.005
AUL-18-10	1702728	71.0	72.5	1.5							1702728 Drill Core	2.61 <0.005
AUL-18-10	1702729	72.5	74.0	1.5							1702729 Drill Core	3 <0.005
AUL-18-10	1702730	74.0	75.5	1.5							1702730 Drill Core	2.91 <0.005
AUL-18-10	1702731	75.5	77.0	1.5							1702731 Drill Core	3.23 <0.005
AUL-18-10	1702732	77.0	78.5	1.5							1702732 Drill Core	2.38 <0.005
AUL-18-10	1702733	78.5	80.0	1.5							1702733 Drill Core	3.55 <0.005
AUL-18-10	1702734	80.0	81.5	1.5							1702734 Drill Core	2.84 <0.005
AUL-18-10	1702735					216					1702735 Rock Pulp	0.06 6.466
AUL-18-10	1702736	81.5	83.0	1.5							1702736 Drill Core	2.97 <0.005
AUL-18-10	1702737	83.0	84.5	1.5							1702737 Drill Core	3.1 0.007
AUL-18-10	1702738	84.5	86.0	1.5							1702738 Drill Core	3.24 <0.005
AUL-18-10	1702739	86.0	87.5	1.5							1702739 Drill Core	3.26 <0.005

Samples

AUL-18-10	1702740	87.5	89.0	1.5		1702740 Drill Core	3.27	<0.005
AUL-18-10	1702741	89.0	90.5	1.5		1702741 Drill Core	3.35	<0.005
AUL-18-10	1702742	90.5	92.0	1.5		1702742 Drill Core	3.38	<0.005
AUL-18-10	1702743	92.0	93.5	1.5		1702743 Drill Core	3.03	<0.005
AUL-18-10	1702744	93.5	95.0	1.5		1702744 Drill Core	3.07	<0.005
AUL-18-10	1702745				217	1702745 Rock Pulp	0.05	6.398
AUL-18-10	1702746	95.0	96.5	1.5		1702746 Drill Core	3.43	0.005
AUL-18-10	1702747	96.5	98.0	1.5		1702747 Drill Core	2.73	<0.005
AUL-18-10	1702748	98.0	99.5	1.5		1702748 Drill Core	3.28	<0.005
AUL-18-10	1702749	99.5	101.0	1.5		1702749 Drill Core	3.21	<0.005
AUL-18-10	1702750				blank	1702750 Rock	0.2	<0.005
AUL-18-10	1702751	101.0	102.5	1.5		1702751 Drill Core	2.93	<0.005
AUL-18-10	1702752	102.5	104.0	1.5		1702752 Drill Core	3.39	<0.005
AUL-18-10	1702753	104.0	105.5	1.5		1702753 Drill Core	3.08	<0.005
AUL-18-10	1702754	105.5	107.0	1.5		1702754 Drill Core	3.06	<0.005
AUL-18-10	1702755	107.0	108.5	1.5		1702755 Drill Core	3.33	<0.005
AUL-18-10	1702756	108.5	110.0	1.5		1702756 Drill Core	3.91	<0.005
AUL-18-10	1702757	110.0	111.5	1.5		1702757 Drill Core	2.7	<0.005
AUL-18-10	1702758	111.5	113.0	1.5		1702758 Drill Core	2.95	<0.005
AUL-18-10	1702759	113.0	114.5	1.5		1702759 Drill Core	3.28	0.006
AUL-18-10	1702760	114.5	116.0	1.5		1702760 Drill Core	3.28	0.006
AUL-18-10	1702761	116.0	117.5	1.5		1702761 Drill Core	2.83	<0.005
AUL-18-10	1702762	117.5	119.0	1.5		1702762 Drill Core	3.54	<0.005
AUL-18-10	1702763	119.0	120.5	1.5		1702763 Drill Core	3.16	0.005
AUL-18-10	1702764	120.5	122.0	1.5		1702764 Drill Core	3.32	0.007
AUL-18-10	1702765	122.0	123.5	1.5		1702765 Drill Core	3.66	<0.005
AUL-18-10	1702766	123.5	125.0	1.5		1702766 Drill Core	2.74	0.007
AUL-18-10	1702767	125.0	126.5	1.5		1702767 Drill Core	2.78	<0.005
AUL-18-10	1702768	126.5	128.0	1.5		1702768 Drill Core	3.08	<0.005
AUL-18-10	1702769	128.0	129.5	1.5		1702769 Drill Core	3.32	0.01
AUL-18-10	1702770				217	1702770 Rock Pulp	0.05	6.312
AUL-18-10	1702771	129.5	131.0	1.5		1702771 Drill Core	3.73	0.007
AUL-18-10	1702772	131.0	132.5	1.5		1702772 Drill Core	2.83	<0.005
AUL-18-10	1702773	132.5	134.0	1.5		1702773 Drill Core	3.14	<0.005
AUL-18-10	1702774	134.0	135.5	1.5		1702774 Drill Core	3.38	<0.005
AUL-18-10	1702775				blank	1702775 Rock	0.19	<0.005
AUL-18-10	1702776	135.5	137.0	1.5		1702776 Drill Core	3.02	<0.005
AUL-18-10	1702777	137.0	138.5	1.5		1702777 Drill Core	3.14	<0.005
AUL-18-10	1702778	138.5	140.0	1.5		1702778 Drill Core	3.53	<0.005
AUL-18-10	1702779	140.0	141.5	1.5		1702779 Drill Core	2.8	<0.005
AUL-18-10	1702780	141.5	143.0	1.5		1702780 Drill Core	3.5	<0.005
AUL-18-10	1702781	143.0	144.5	1.5		1702781 Drill Core	2.64	<0.005
AUL-18-10	1702782	144.5	146.0	1.5		1702782 Drill Core	3.01	0.006

Samples

AUL-18-10	1702783	146.0	147.5	1.5		1702783	Drill Core	2.83	<0.005
AUL-18-10	1702784	147.5	149.0	1.5		1702784	Drill Core	3.2	<0.005
AUL-18-10	1702785				216	1702785	Rock Pulp	0.06	6.528
AUL-18-10	1702786	149.0	150.5	1.5		1702786	Drill Core	2.25	0.008
AUL-18-10	1702787	150.5	152.0	1.5		1702787	Drill Core	3.04	0.035
AUL-18-10	1702788	152.0	153.5	1.5		1702788	Drill Core	3.49	<0.005
AUL-18-10	1702789	153.5	155.0	1.5		1702789	Drill Core	3.32	<0.005
AUL-18-10	1702790	155.0	156.5	1.5		1702790	Drill Core	2.97	<0.005
AUL-18-10	1702791	156.5	158.0	1.5		1702791	Drill Core	2.07	<0.005
AUL-18-10	1702792	158.0	159.5	1.5		1702792	Drill Core	3.55	<0.005
AUL-18-10	1702793	159.5	161.0	1.5		1702793	Drill Core	2.97	<0.005
AUL-18-10	1702794	161.0	162.5	1.5		1702794	Drill Core	3.21	<0.005
AUL-18-10	1702795				217	1702795	Rock Pulp	0.05	6.556
AUL-18-10	1702796	162.5	164.0	1.5		1702796	Drill Core	3.03	<0.005
AUL-18-10	1702797	164.0	165.5	1.5		1702797	Drill Core	3.1	<0.005
AUL-18-10	1702798	165.5	167.0	1.5		1702798	Drill Core	3.05	0.006
AUL-18-10	1702799	167.0	168.5	1.5		1702799	Drill Core	3.42	<0.005
AUL-18-10	1702800				blank	1702800	Rock	0.23	<0.005
AUL-18-10	1702801	168.5	170.0	1.5		1702801	Drill Core	2.68	0.006
AUL-18-10	1702802	170.0	171.5	1.5		1702802	Drill Core	3.3	0.009
AUL-18-10	1702803	171.5	173.0	1.5		1702803	Drill Core	2.89	<0.005
AUL-18-10	1702804	173.0	174.5	1.5		1702804	Drill Core	3.17	<0.005
AUL-18-10	1702805	174.5	176.0	1.5		1702805	Drill Core	2.72	<0.005
AUL-18-10	1702806	176.0	177.5	1.5		1702806	Drill Core	2.68	<0.005
AUL-18-10	1702807	177.5	179.0	1.5		1702807	Drill Core	2.85	0.008
AUL-18-10	1702808	179.0	180.5	1.5		1702808	Drill Core	3.35	<0.005
AUL-18-10	1702809	180.5	182.0	1.5		1702809	Drill Core	2.33	<0.005
AUL-18-10	1702810	182.0	183.5	1.5		1702810	Drill Core	3.97	<0.005
AUL-18-10	1702811	183.5	185.0	1.5		1702811	Drill Core	2.02	<0.005
AUL-18-10	1702812	185.0	186.5	1.5		1702812	Drill Core	2.99	<0.005
AUL-18-10	1702813	186.5	188.0	1.5		1702813	Drill Core	2.55	<0.005
AUL-18-10	1702814	188.0	189.5	1.5		1702814	Drill Core	3.03	<0.005
AUL-18-10	1702815	189.5	191.0	1.5		1702815	Drill Core	3.53	<0.005
AUL-18-10	1702816	191.0	192.5	1.5		1702816	Drill Core	2.85	<0.005
AUL-18-10	1702817	192.5	194.0	1.5		1702817	Drill Core	2.97	<0.005
AUL-18-10	1702818	194.0	195.5	1.5		1702818	Drill Core	2.79	<0.005
AUL-18-10	1702819	195.5	197.0	1.5		1702819	Drill Core	2.85	<0.005
AUL-18-10	1702820				217	1702820	Rock Pulp	0.05	6.595
AUL-18-10	1702821	197.0	198.5	1.5		1702821	Drill Core	3.01	0.019
AUL-18-10	1702822	198.5	200.0	1.5		1702822	Drill Core	2.69	<0.005
AUL-18-10	1702823	200.0	201.5	1.5		1702823	Drill Core	2.98	0.007
AUL-18-10	1702824	201.5	203.0	1.5		1702824	Drill Core	2.72	0.005
AUL-18-10	1702825				blank	1702825	Rock	0.2	<0.005

Samples

AUL-18-10	1702826	203.0	204.0	1.0		1702826 Drill Core	1.9	<0.005
AUL-18-10	1702827	204.0	205.0	1.0		1702827 Drill Core	1.71	<0.005
AUL-18-10	1702828	205.0	206.0	1.0		1702828 Drill Core	1.79	<0.005
AUL-18-10	1702829	206.0	207.0	1.0		1702829 Drill Core	2.47	<0.005
AUL-18-10	1702830	207.0	208.0	1.0		1702830 Drill Core	1.98	<0.005
AUL-18-10	1702831	208.0	209.5	1.5		1702831 Drill Core	2.83	<0.005
AUL-18-10	1702832	209.5	211.0	1.5		1702832 Drill Core	3.69	<0.005
AUL-18-10	1702833	211.0	212.5	1.5		1702833 Drill Core	3.39	<0.005
AUL-18-10	1702834	212.5	214.0	1.5		1702834 Drill Core	2.76	<0.005
AUL-18-10	1702835				216	1702835 Rock Pulp	0.04	6.565
AUL-18-10	1702836	214.0	215.5	1.5		1702836 Drill Core	3.25	0.007
AUL-18-10	1702837	215.5	217.0	1.5		1702837 Drill Core	4	<0.005
AUL-18-10	1702838	217.0	218.5	1.5		1702838 Drill Core	2.07	<0.005
AUL-18-10	1702839	218.5	220.0	1.5		1702839 Drill Core	3.04	<0.005
AUL-18-10	1702840	220.0	221.5	1.5		1702840 Drill Core	3	<0.005
AUL-18-10	1702841	221.5	223.0	1.5		1702841 Drill Core	2.57	<0.005
AUL-18-10	1702842	223.0	224.5	1.5		1702842 Drill Core	3.51	<0.005
AUL-18-10	1702843	224.5	226.0	1.5		1702843 Drill Core	3.34	0.02
AUL-18-10	1702844	226.0	227.5	1.5		1702844 Drill Core	2.72	<0.005
AUL-18-10	1702845				217	1702845 Rock Pulp	0.05	6.528
AUL-18-10	1702846	227.5	229.0	1.5		1702846 Drill Core	2.8	0.006
AUL-18-10	1702847	229.0	230.5	1.5		1702847 Drill Core	2.38	0.03
AUL-18-10	1702848	230.5	232.0	1.5		1702848 Drill Core	2.86	<0.005
AUL-18-10	1702849	232.0	233.5	1.5		1702849 Drill Core	2.87	<0.005
AUL-18-10	1702850				blank	1702850 Rock	0.2	<0.005
AUL-18-10	1702851	233.5	235.0	1.5		1702851 Drill Core	2.97	<0.005
AUL-18-10	1702852	235.0	236.5	1.5		1702852 Drill Core	3.03	<0.005
AUL-18-10	1702853	236.5	238.0	1.5		1702853 Drill Core	2.94	0.011
AUL-18-10	1702854	238.0	239.5	1.5		1702854 Drill Core	2.76	<0.005
AUL-18-10	1702855	239.5	241.0	1.5		1702855 Drill Core	2.93	<0.005
AUL-18-10	1702856	241.0	242.5	1.5		1702856 Drill Core	3.04	<0.005
AUL-18-10	1702857	242.5	244.0	1.5		1702857 Drill Core	3.2	<0.005
AUL-18-10	1702858	244.0	245.0	1.0		1702858 Drill Core	1.98	<0.005

Header

DDH ID	AUL-18-11					
	Claim #	East	North	Az	Dip	EOH (m) (Nad 83)
Location	3019086	592304	5483183	175	-45	125
Purpose	Test Mikwam Zone					
Start date	24-Aug-18					
End date	25-Aug-18					
Drill Contractor	Norex Drilling					
Logged By	T.Keast					
Comments	Casing left in hole					

Description

BHID	From	To	Litho	Comment
AUL-18-11	0	48	CAS	Casing through overburden
AUL-18-11	48	59.0	FAULT	<p>FAULT ZONE ? - Dark black Argillite with scattered section of disitinct bedding banding, however low angle foliation dominates.</p> <p>Numerous broken blocky sections of core, low angle fractures. Scatterd setions of vuggy carb stringers in fault breccia, fault planes.</p> <p>Unit strongly foliated. Numerous sections of soft friable material and missing core sections.</p> <p>Broken blocky core through. Soft sooty.</p>
AUL-18-11	59	67	ARGblk	<p>ARGILLITE Black- Dark black distinctingly banded/strong foliation. Low core angle to core axis.</p> <p>Strong foliation continuation of above fault zone</p> <p>Distinct light and darker bands/beds of several cm to mm lamination size.</p> <p>1% scattered cubes py, and up to 3-5% in crude stringers.</p> <p>1-3% vuggy Qtz carb stringers parallel to foliation.</p> <p>Soft readily scratched</p> <p>Upper contact is gradational from the above Fault.</p>
AUL-18-11	67.0	80.0	ARGgry	<p>ARGILLITE Grey- light in color with rare scattered 1 cm band/beds black laminations. Light in color with distinct light grey and white bands/beds, the unit is identified as unique unit due to scattered <1cm wide dark black fine beds and laminations, not magnetic.</p> <p>Black beds are narrow hard cannot be scratched, and non Magnetic. Visually they look like Iron Formation, not magnetic.</p> <p>Unit is readily scratched.</p> <p>Upper contact gradational</p>
AUL-18-11	80	82.5	ARGblk	Dark black banded laminated argillite.
AUL-18-11	82.5	87.5	ARGgry	ARGILLITE Grey- light in color fine grained.

Description

AUL-18-11	87.5	93.5	ARGblk	<p>Dark black fine grained hard silicified. Contorted small scale folding throughout. 1-3% carb stringers. 1-3% py in fine stringers and cubes.</p> <p>Abrupt upper contact in broken core.</p>
AUL-18-11	93.5	98	FAULT	<p>Fault Zone - Brecciated complex mix of chlorite carb gouge - healed, intermixed with dark black argillite fragments brecciated. Quartz veining irregular.</p> <p>MINERALIZED ZONE - Distinct Zone of overall 25% Quartz Veins & vein Breccia. Predominantly all brecciated and healed vein with scattered narrow intervals xenoliths of sericite/carbonate altered wallrock and dark argillite.</p> <p>This zone includes portions of the preserved fault structure (above unit). Not a stockwork of veins but single vein and vein breccia. Pervasive vuggy texture to the sulphides.</p> <p>Pyrite in stringers and disseminations.</p> <p>94.1-98.2 25% QV and flooding in light sericite matrix with 10-15% py</p> <p>98.2 - 104.0 Dark Black chlor/argillite with 15-20% qtz veins in contorted folded sequence. 10-15% py</p> <p>104.0-105.2 50% qtz veins and vein breccia and vein flooding in sericite fucssite matrix. 5-10% py</p>
AUL-18-11	105.2	123.2	BLCHFw	<p>INTRUSION ? - Light color fine to medium grained massive unit. Strong foliation qtz sericite rich with 5-10% narrow qtz stringers. 3-5% fine py. This could also be altered wacke. Narrow 1 cm bands possible remnaent bedding?</p> <p>Unit is hard but just able to take a scratch</p>

Description

AUL-18-11 123.2 125 CONG
Conglomerate - light in color resembles upper unit but with distinct flat black clast up to 4 cm.
Light quartz rich gritty texture. Unit getting darker down hole.

EOH

Mineralization

BHID	From	To	Qtz Veins %	Py %	Po %	Arseno %	Other	Comments	Conductors (tested with ohmeter)
AUL-18-11	87.5	94.1		3					
AUL-18-11	94.1	98.2	0.25	15				Qtz sericite rich	
AUL-18-11	98.2	104.0	20	15				Dark black argillite, folded contorted veins	
AUL-18-11	104.0	105.2	50	10				qtz sericite matrix 1% fuccsite	
AUL-18-11	105.2	123.2	3	5					

Structure

BHID	Depth	Deg to CA	Comment	Comment
AUL-18-11	48.5	15	Foliation	
AUL-18-11	56.0	15	Foliation	Faulte broken core slip planes
AUL-18-11	62.0	10	Foliation	
AUL-18-11	71.0	15	Foliation	banding
AUL-18-11	78.5	10	Foliation	
AUL-18-11	83.0	35	Foliation	
AUL-18-11	88.4	50	Foliation	Small scale folding
AUL-18-11	94.2	55	Foliation	Contact
AUL-18-11	96.2	300		
AUL-18-11	100.5	20	Foliation	Qtz Veins
AUL-18-11	110.5	60	Foliation	
AUL-18-11	117.4	40	Foliation	
AUL-18-11	123.2	50	Contact	

MagSuscept

BHD	Depth	MS	<i>Terraplus KT-5 Magnetic Susceptibility Meter</i>
AUL-18-11	53.0	0.01	
AUL-18-11	61.0	0.09	
AUL-18-11	64.0	0.11	
AUL-18-11	69.0	0.01	
AUL-18-11	78.0	0.08	
AUL-18-11	83.0	0.01	
AUL-18-11	86.0	0.01	
AUL-18-11	90.0	0.06	
AUL-18-11	93.0	0.04	
AUL-18-11	95.0	0.18	
AUL-18-11	98.0	0.06	
AUL-18-11	102.0	0.00	
AUL-18-11	104.0	0.05	
AUL-18-11	108.0	0.02	
AUL-18-11	111.0	0.09	
AUL-18-11	112.0	2.17	
AUL-18-11	113.0	1.45	
AUL-18-11	114.0	3.50	
AUL-18-11	115.0	1.40	
AUL-18-11	116.0	0.84	
AUL-18-11	117.0	0.79	
AUL-18-11	118.0	0.34	
AUL-18-11	119.0	1.91	
AUL-18-11	123.0	1.39	
AUL-18-11	124.0	1.34	
AUL-18-11	125.0	1.31	

RQD

BHID	From	To	Recovery	RQD	Comments
					Overburden
AUL-18-11	48.0	50.0	2.0	0.8	Broken Blocky
AUL-18-11	50.0	53.0	2.5	0.1	Broken Blocky
AUL-18-11	53.0	56.0	1.5	0.0	Broken Blocky
AUL-18-11	56.0	59.0	3.0	0.6	Broken Blocky
AUL-18-11	59.0	62.0	2.8	1.5	Broken Blocky
AUL-18-11	62.0	65.0	3.0	1.6	Broken Blocky
AUL-18-11	65.0	68.0	3.0	0.0	Broken Blocky
AUL-18-11	68.0	71.0	2.9	0.1	Broken Blocky
AUL-18-11	71.0	74.0	2.9	2.2	
AUL-18-11	74.0	77.0	2.8	2.0	
AUL-18-11	77.0	80.0	3.0	1.5	
AUL-18-11	80.0	83.0	3.0	0.6	
AUL-18-11	83.0	86.0	3.0	2.1	
AUL-18-11	86.0	89.0	3.0	1.9	
AUL-18-11	89.0	92.0	3.0	1.9	
AUL-18-11	92.0	95.0	2.7	1.3	
AUL-18-11	95.0	98.0	3.0	1.7	
AUL-18-11	98.0	101.0	3.0	1.8	
AUL-18-11	101.0	104.0	3.0	1.4	
AUL-18-11	104.0	107.0	3.0	1.9	
AUL-18-11	107.0	110.0	3.0	2.8	
AUL-18-11	110.0	113.0	3.0	3.0	
AUL-18-11	113.0	116.0	3.0	2.9	
AUL-18-11	116.0	119.0	2.9	2.6	
AUL-18-11	119.0	122.0	3.0	2.9	
AUL-18-11	122.0	125.0	3.0	2.9	

Reflex

BHID	Depth	Az	Az Correct	Dip	Mag Field	Use Az	Use Dip	Comments
AUL-18-11	0.0	175.0	175.0	-45.0		N	Y	As spotted
								Rock too broken up below the casing to get an earlier reading
AUL-18-11	74.0	181.4	168.4	-44.9	5637.0	Y	Y	
AUL-18-11	125.0	184.5	171.5	-44.6	5573.0	Y	Y	

Samples

BHID	Sample	From	To	Width	Stand/blank	QV %	Py%	Po%	Arsen Hem	other	Sample	Type	Wgt	Au
AUL-18-11	1649001	82.5	83.5	1.0							1649001	Drill Core	1.74	0.074
AUL-18-11	1649002	83.5	84.5	1.0							1649002	Drill Core	2.27	0.037
AUL-18-11	1649003	84.5	85.5	1.0							1649003	Drill Core	1.94	0.04
AUL-18-11	1649004	85.5	86.5	1.0							1649004	Drill Core	2.1	0.017
AUL-18-11	1649005	86.5	87.5	1.0							1649005	Drill Core	1.98	0.022
AUL-18-11	1649006	87.5	88.5	1.0			3				1649006	Drill Core	2.08	0.047
AUL-18-11	1649007	88.5	89.5	1.0			3				1649007	Drill Core	1.99	0.037
AUL-18-11	1649008	89.5	90.5	1.0			3				1649008	Drill Core	2.21	0.039
AUL-18-11	1649009	90.5	91.5	1.0			3				1649009	Drill Core	2.59	0.024
AUL-18-11	1649010	91.5	92.5	1.0			3				1649010	Drill Core	2.27	0.085
AUL-18-11	1649011	92.5	93.5	1.0			3				1649011	Drill Core	2.29	0.07
AUL-18-11	1649012	93.5	94.1	0.6			3				1649012	Drill Core	1.49	0.173
AUL-18-11	1649013	94.1	95.0	0.9		25	15				1649013	Drill Core	1.38	0.121
AUL-18-11	1649014	95.0	96.0	1.0		25	15				1649014	Drill Core	2.12	0.125
AUL-18-11	1649015	96.0	97.0	1.0		25	15				1649015	Drill Core	1.83	0.161
AUL-18-11	1649016	97.0	98.2	1.2		25	15				1649016	Drill Core	2.72	1.649
AUL-18-11	1649017				blank						1649017	Rock	0.13	0.008
AUL-18-11	1649018	98.2	99.5	1.3		20	15				1649018	Drill Core	2.79	1.696
AUL-18-11	1649019	99.5	100.5	1.0		20	15				1649019	Drill Core	2.63	0.131
AUL-18-11	1649020					217					1649020	Rock Pulp	0.07	0.341
AUL-18-11	1649021	100.5	102.0	1.5		20	15				1649021	Drill Core	3.16	0.149
AUL-18-11	1649022	102.0	103.0	1.0		20	15				1649022	Drill Core	2.25	0.212
AUL-18-11	1649023	103.0	104.0	1.0		20	15				1649023	Drill Core	2.27	0.725
AUL-18-11	1649024	104.0	105.2	1.2		50	10				1649024	Drill Core	2.52	0.292
AUL-18-11	1649025	105.2	106.0	0.8		3	5				1649025	Drill Core	1.75	0.633
AUL-18-11	1649026	106.0	107.0	1.0		3	5				1649026	Drill Core	2.05	0.019
AUL-18-11	1649027	107.0	108.0	1.0		3	5				1649027	Drill Core	2.15	0.027
AUL-18-11	1649028					216					1649028	Rock Pulp	0.06	6.647
AUL-18-11	1649029	108.0	109.0	1.0		3	5				1649029	Drill Core	2.28	0.058
AUL-18-11	1649030	109.0	110.0	1.0		3	5				1649030	Drill Core	2.28	0.254
AUL-18-11	1649031	110.0	111.0	1.0		3	5				1649031	Drill Core	2.1	0.076
AUL-18-11	1649032	111.0	112.0	1.0		3	5				1649032	Drill Core	2.17	0.057
AUL-18-11	1649033	112.0	113.0	1.0		3	5				1649033	Drill Core	2.06	0.017
AUL-18-11	1649034	113.0	114.0	1.0		3	5				1649034	Drill Core	2.13	0.015
AUL-18-11	1649035	114.0	115.0	1.0		3	5				1649035	Drill Core	2.02	1.057
AUL-18-11	1649036	115.0	116.0	1.0		3	5				1649036	Drill Core	2.11	0.077
AUL-18-11	1649037	116.0	117.0	1.0		3	5				1649037	Drill Core	2.6	0.01
AUL-18-11	1649038				blank						1649038	Rock	0.12	0.006
AUL-18-11	1649039	117.0	118.0	1.0		1	3				1649039	Drill Core	1.73	<0.005
AUL-18-11	1649040	118.0	119.0	1.0		1	3				1649040	Drill Core	2.61	0.008
AUL-18-11	1649041	119.0	120.0	1.0		1	3				1649041	Drill Core	2.32	<0.005
AUL-18-11	1649042	120.0	121.0	1.0		1	3				1649042	Drill Core	1.89	<0.005

Samples

AUL-18-11	1649043	121.0	122.0	1.0	1	3	1649043 Drill Core	2.31	<0.005
AUL-18-11	1649044	122.0	123.2	1.2	1	3	1649044 Drill Core	2.39	<0.005
AUL-18-11	1649045	123.2	124.0	0.8			1649045 Drill Core	1.64	<0.005
AUL-18-11	1649046	124.0	125.0	1.0			1649046 Drill Core	2.5	<0.005

Header

DDH ID	AUL-18-12					
	Claim #	East	North	Az	Dip	EOH (m) (Nad 83)
Location	3019086	592304	5483183	175	-65	152
Purpose	Test Mikwam Zone					
Start date	25-Aug-18					
End date	26-Aug-18					
Drill Contractor	Norex Drilling					
Logged By	T.Keast					
Comments	Casing left in hole					

Description

BHID	From	To	Litho	Comment
AUL-18-12	0	39.5	CAS	Casing through overburden
AUL-18-12	39.5	84.5	ARGgry	<p>ARGILLITE Grey- light in color with rare scattered 1 cm band/beds dark grey bands/ laminations (not ArgBlk unit). Light in color with distinct light grey and white bands/beds, the unit is identified as unique unit due to scattered <1cm wide dark grey fine beds and laminations, generally grey not magnetic. Readily scratched. 1% scattered py cubes</p> <p>46.0-46.5 narrow interval with 1-2cm black clasts, conglomerate interbed.</p> <p>69.0 second cleavage at 70 deg to CA.</p> <p>Local narrow broken blocky sections.</p> <p>74.5-75.5 Distinct finer/lighter bedding primary texture. 1-2% py.</p> <p>75.5-78.5 Slightly darker grey fine grained interval with 1-3% py. S>ightly harder (not ArgBlk).</p>
AUL-18-12	84.5	88.8	ARGgry	<p>Argillite Grey- Light grey slightly lighter in color and harder then above interval with 1-2% py cubes.</p> <p>Gradational upper contact</p>
AUL-18-12	88.8	91.2	FAULT	<p>Fault - Strong foliated and brecciated interval with 15-20% carb fractures <1 cm all anngles to core axis,</p> <p>Dark grey brown material in matrix.</p> <p>3-5% fine py</p> <p>Sharp upper contact with distinct banding.</p>
AUL-18-12	91.2	95.2	MINZON	<p>Mineralized Zone - 90% grey-white mottled quartz vein, brecciated.</p> <p>10-15% py in dissemnations and local stringers.</p> <p>scattered low angle chlorite fractures/slip planes</p> <p>93.0-94.3 Black dark green Xenoliths within vein.</p> <p>Sharp Upper contact 45 deg to CA</p>

Description

AUL-18-12	95.2	105.5	BLCHfw	<p>Intrusion ? - Light white qtz sericite unit homogeneous with moderate foliation. Scattered 1mm dark qtz grains ovid. Hard just able to scratch. 1-3% white qtz veins, 1-3% fine py, rare arseno very fine grained.</p> <p>100.4-101.0 distinct chill margin along core axis (possible support intrusion?) 102.0-102.2 single qtz vein</p>
AUL-18-12	105.5	107.7	MINZON	<p>Mineralized Zone- 95% quartz veins white and grey mottled. 1% fine py and in blebs. Tr arseno fine grains, tr sphalerite.</p> <p>107.1 - 5 flakes VG <1mm with arseno and sphalerite</p>
AUL-18-12	107.7	121.7	BLCHfw	<p>Intrusion ? - Light white qtz sericite unit homogeneous with moderate foliation. Scattered 1mm dark qtz and chlor grains ovid. Strong foliation, low core angle. hard just able to scratch Upper contact irregular.</p>
AUL-18-12	121.7	126.9	ARGgry	<p>Argillite Grey - Light grey with local sericite rich bands. Strong foliation. 1% py cubes.</p>
AUL-18-12	126.9	134.1	BLCHfw	<p>Intrusion ? - Light white qtz sericite unit homogeneous with moderate foliation. Scattered 1mm dark qtz grains ovid. Hard just able to scratch. Sharp upper contact</p>
AUL-18-12	134.1	142.5	ARGgry	<p>Argillite Grey - Light grey with local sericite rich bands. Strong foliation. 1% py cubes. 1-3% qtz veins</p>
AUL-18-12	142.5	152	WACKE	<p>Greywacke? - Massive homogeneous granular apperance. Rare band/bed.</p>

EOH

Mineralization

BHID	From	To	Qtz Veins %	Py %	Po %	Arseno %	Other	Comments	Conductors (tested with ohmeter)
AUL-18-12	84.5	88.8		2					
AUL-18-12	88.8	91.2	20	5				Carb qtz fractures	
AUL-18-12	91.2	95.2	90	10					
AUL-18-12	95.2	105.5	3	3		0.05			
AUL-18-12	105.5	107.7	95	2		0.1		tr sphalerite, 5 flakes VG at 107.1m	
AUL-18-12	107.7	121.7	0.5	0.5					

Structure

BHID	Depth	Deg to CA	Comment	Comment
AUL-18-12	43.0		20 Foliation	
AUL-18-12	59.0		30 Foliation	
AUL-18-12	67.0		25 Foliation	
AUL-18-12	73.5		35 Foliation	
AUL-18-12	83.0		5 Foliation	Open folds
AUL-18-12	85.0		45 Contact	
AUL-18-12	88.5		45 Contact	
AUL-18-12	91.2		40 Contact	
AUL-18-12	96.0		5 Foliation	Qtz Veins
AUL-18-12	99.0		10 Foliation	
AUL-18-12	105.0		20 Foliation	
AUL-18-12	112.0		10 Foliation	
AUL-18-12	116.0		30 Foliation	bands/bedding?
AUL-18-12	122.0		20 Foliation	
AUL-18-12	132.0		25 Foliation	
AUL-18-12	138.0		15 Foliation	
AUL-18-12	141.0		30 Foliation	
AUL-18-12	150.0		15 Foliation	

MagSuscept

BHID	Depth	MS	<i>Terraplus KT-5 Magnetic Susceptibility Meter</i>
AUL-18-12	42.0	0.00	
AUL-18-12	48.0	0.05	
AUL-18-12	54.0	0.04	
AUL-18-12	62.0	0.01	
AUL-18-12	69.0	0.07	
AUL-18-12	78.0	0.08	
AUL-18-12	86.0	0.09	
AUL-18-12	87.5	0.13	
AUL-18-12	89.5	0.03	
AUL-18-12	91.0	0.00	
AUL-18-12	92.0	0.00	
AUL-18-12	94.0	0.00	
AUL-18-12	96.0	0.15	
AUL-18-12	96.5	0.08	
AUL-18-12	97.0	0.28	
AUL-18-12	97.5	0.85	
AUL-18-12	98.0	1.90	
AUL-18-12	99.0	0.08	
AUL-18-12	100.0	0.14	
AUL-18-12	102.5	2.10	
AUL-18-12	103.0	1.73	
AUL-18-12	105.0	1.80	
AUL-18-12	106.0	0.04	
AUL-18-12	108.0	0.68	
AUL-18-12	110.0	0.57	
AUL-18-12	112.0	0.05	
AUL-18-12	113.0	0.37	
AUL-18-12	116.0	1.76	
AUL-18-12	118.0	0.30	
AUL-18-12	119.0	0.14	
AUL-18-12	122.0	1.55	
AUL-18-12	125.0	0.38	
AUL-18-12	127.0	0.46	
AUL-18-12	134.0	0.53	
AUL-18-12	136.0	0.13	
AUL-18-12	139.0	0.01	
AUL-18-12	141.5	0.35	
AUL-18-12	142.0	2.40	
AUL-18-12	146.0	2.20	
AUL-18-12	149.0	1.66	
AUL-18-12	152.0	1.70	

RQD

BHID	From	To	Recovery	RQD	Comments
AUL-18-12	39	41	2	0.57	
AUL-18-12	41.0	44.0	3.0	1.5	
AUL-18-12	44.0	47.0	2.9	1.9	
AUL-18-12	47.0	50.0	3.0	1.6	
AUL-18-12	50.0	53.0	3.0	1.3	
AUL-18-12	53.0	56.0	2.9	1.2	
AUL-18-12	56.0	59.0	2.5	2.2	
AUL-18-12	59.0	62.0	2.5	1.7	
AUL-18-12	62.0	65.0	3.0	1.1	
AUL-18-12	65.0	68.0	3.0	2.0	
AUL-18-12	68.0	71.0	3.0	2.0	
AUL-18-12	71.0	74.0	2.9	2.5	
AUL-18-12	74.0	77.0	2.9	2.0	
AUL-18-12	77.0	80.0	2.9	2.0	
AUL-18-12	80.0	83.0	3.0	1.9	
AUL-18-12	83.0	86.0	3.0	2.9	
AUL-18-12	86.0	89.0	3.0	2.2	
AUL-18-12	89.0	92.0	3.0	1.4	
AUL-18-12	92.0	95.0	3.0	1.1	
AUL-18-12	95.0	98.0	3.0	2.6	
AUL-18-12	98.0	101.0	3.0	3.0	
AUL-18-12	101.0	104.0	3.0	2.6	
AUL-18-12	104.0	107.0	2.9	2.4	
AUL-18-12	107.0	110.0	3.0	2.7	
AUL-18-12	110.0	113.0	3.0	2.3	
AUL-18-12	113.0	116.0	3.0	2.0	
AUL-18-12	116.0	119.0	3.0	2.0	
AUL-18-12	119.0	122.0	3.0	2.9	
AUL-18-12	122.0	125.0	2.9	2.4	
AUL-18-12	125.0	128.0	3.0	2.1	
AUL-18-12	128.0	131.0	3.0	3.0	
AUL-18-12	131.0	134.0	2.9	2.5	
AUL-18-12	134.0	137.0	3.0	3.0	
AUL-18-12	137.0	140.0	3.0	2.6	
AUL-18-12	140.0	143.0	3.0	2.7	
AUL-18-12	143.0	146.0	3.0	2.8	
AUL-18-12	146.0	149.0	3.0	3.0	
AUL-18-12	149.0	152.0	2.9	2.8	

Reflex

BHID	Depth	Az	Az Correct	Dip	Mag Field	Use Az	Use Dip	Comments
AUL-18-12	0.0	175.0	175.0	-65.0		Y	Y	As spotted
AUL-18-12	53.0	187.1	174.1	-65.7	5666.0	Y	Y	
AUL-18-12	104.0	188.9	175.9	-65.8	5597.0	Y	Y	
AUL-18-12	151.0	190.3	177.3	-65.4	5604.0	y	y	

Samples

AUL-18-12	1649089				Blank
AUL-18-12	1649090	118.5	119.5	1.0	
AUL-18-12	1649091	119.5	120.5	1.0	
AUL-18-12	1649092	120.5	121.7	1.2	
AUL-18-12	1649093	121.7	123.0	1.3	
AUL-18-12	1649094	123.0	124.0	1.0	
AUL-18-12	1649095	124.0	125.0	1.0	
AUL-18-12	1649096	125.0	126.0	1.0	
AUL-18-12	1649097	126.0	126.9	0.9	
AUL-18-12	1649098				217
AUL-18-12	1649099	126.9	128.0	1.1	
AUL-18-12	1649100	128.0	129.0	1.0	
AUL-18-12	1649101	129.0	130.0	1.0	
AUL-18-12	1649102	130.0	131.0	1.0	
AUL-18-12	1649103	131.0	132.0	1.0	
AUL-18-12	1649104	132.0	133.0	1.0	
AUL-18-12	1649105	133.0	134.1	1.1	
AUL-18-12	1649106	134.1	135.0	0.9	
AUL-18-12	1649107	135.0	136.0	1.0	
AUL-18-12	1649108	136.0	137.0	1.0	
AUL-18-12	1649109	137.0	138.0	1.0	
AUL-18-12	1649110	138.0	139.0	1.0	
AUL-18-12	1649111	139.0	140.0	1.0	
AUL-18-12	1649112	140.0	141.0	1.0	
AUL-18-12	1649113	141.0	142.5	1.5	

Header

DDH ID	AUL-18-13					
	Claim #	East	North	Az	Dip	EOH (m) (Nad 83)
Location	3019086	592304	5483231	180	-55	176
Purpose	Test Mikwam Zone					
Start date	Aug 26 2018					
End date	Aug 27 2018					
Drill Contractor	Norex Drilling					
Logged By	T.Keast					
Comments	Casing left in hole					

Description

BHID	From	To	Litho	Comment
AUL-18-13	0	48	CAS	Casing through overburden
AUL-18-13	48	58.0	ARGblk	Argillite Black - Dark black fine grained argillite. Strong foliation with tight isoclinal folds. 1-2% py cubes. Numerous broken blocky core.
AUL-18-13	58	79.3	ARGgry	Argillite Grey - Fine grained banded/bedded laminations/bedding, 1mm to 1 cm wide. Alternation light and grey bands. 1% py in 5mm cubes. Gradational upper contact
AUL-18-13	79.3	104.2	ARGblk	Argillite Black - Dark black fine soft sooty argillite (some shiny graphite like slip planes non conductive) 1-3% fine dissemin py. 80.2-80.3 Qtz vein white. 91.0 - 95.5 15-20% py in fine disseminations, stringers and 8mm cubes. (not sulphide laminations). Non Conductive, small scale folding throughout. Sharp upper contact
AUL-18-13	104.2	123.3	ARGgry	Argillite Grey - Fine grained banded/bedded laminations/bedding, 1mm to 1 cm wide. Alternation light and grey bands, rare dark grey band. 1% carb veins along foliation, py cubes up to 1 cm. Sharp upper contact
AUL-18-13	123.3	131.7	ARGblk	Argillite Black - Dark black fine grained strongly foliated. Banding/bedding with small scale folding. 3-5% fine dissemin py and clots and stringers. Hard just able to scratch Sharp upper contact.

Description

AUL-18-13	131.7	133.5	FAULT	Fault Zone - Structurally complex zone of strong foliation and fault breccia. Healed angular fragments in qtz carb matrix. 5-10% qtz carb veins, some veins brecciated Gradational upper contact
AUL-18-13	133.5	152	MINZON	Mineralized Zone - Mineralized zone consisting of quartz veins, mottled with xenoliths of altered wall rock fragments, Rock fragments bleached foliated. Semi massive py sections in vein breccia. Overall 10-15% py, with clots of arsenopyrite. Sharp upper contact 75 to Ca
AUL-18-13	152	158.2	BLCHfw	Intrusion ? With Qtz Veins - Light buff momogenous unit moderate foliated, granular texture Qtz sericite rich. Rare wide spaced bands possible wacke unit? 10 % Quartz veins along foliation raggedy veins less then 5 cm wide. 1-3% py
AUL-18-13	158.2	176	BLCHfw	Intrusion ? Light buff color granular apperace homogenous. Mod foliation. Qtz sericite rich distinct grey qtz phenocrysts.

EOH

Mineralization

BHID	From	To	Qtz Veins %	Py %	Po %	Arseno %	Other	Comments	Conductors (tested with ohmeter)
AUL-18-13	91.0	91.5		20				Disseminated grains and cubes, non conductive, not magnetic	Not conductive Conductive over 1 cm. Individual grains of py poor connectivity
AUL-18-13	133.5	152.0	95	20		2		Clots of Arseno generally within py.	
AUL-18-13	152.0	158.2	5	2					
AUL-18-13	158.2	176.0	0.5	1					

Structure

BHID	Depth	Deg to CA	Comment	Comment
AUL-18-13	52.0	40	Foliation	
AUL-18-13	56.5	35	Foliation	
AUL-18-13	63.0	50	Foliation	
AUL-18-13	69.0	25	Foliation	
AUL-18-13	76.0	30	Foliation	
AUL-18-13	82.0	25	Foliation	
AUL-18-13	86.0	40	Foliation	
AUL-18-13	87.0	25	Foliation	
AUL-18-13	91.0	20	Foliation	
AUL-18-13	92.0	5	Foliation	
AUL-18-13	94.0	5	Foliation	
AUL-18-13	95.5	5	Foliation	small scale fold
AUL-18-13	99.0	15	Foliation	lamination
AUL-18-13	104.0	35	Foliation	
AUL-18-13	111.0	35	Foliation	small scale fold
AUL-18-13	115.5	10	Foliation	small scale fold
AUL-18-13	120.0	35	Foliation	
AUL-18-13	121.0	5	Foliation	
AUL-18-13	127.0	20	Foliation	small scale fold
AUL-18-13	129.0	5	Foliation	
AUL-18-13	133.5	75	Contact	
AUL-18-13	139.5	30	Foliation	py in vein
AUL-18-13	149.0	50	Foliation	xenolith
AUL-18-13	152.0	30	Foliation	contact
AUL-18-13	156.5	30	Foliation	
AUL-18-13	162.4	35	Foliation	
AUL-18-13	164.5	25	Foliation	
AUL-18-13	167.5	40	Foliation	
AUL-18-13	173	20	Foliation	

MagSuscept

BHID	Depth	MS	<i>Terraplus KT-5 Magnetic Susceptibility Meter</i>
AUL-18-13	50.5	0.00	
AUL-18-13	54.5	0.11	
AUL-18-13	55.3	0.10	
AUL-18-13	61.0	0.19	
AUL-18-13	69.0	0.10	
AUL-18-13	76.0	0.34	
AUL-18-13	80.0	0.05	
AUL-18-13	83.0	0.01	
AUL-18-13	86.0	0.01	
AUL-18-13	88.1	0.05	
AUL-18-13	90.0	0.01	
AUL-18-13	91.0	0.04	
AUL-18-13	93.0	0.03	
AUL-18-13	95.0	0.03	
AUL-18-13	98.0	0.02	
AUL-18-13	101.0	0.00	
AUL-18-13	104.0	0.05	
AUL-18-13	107.0	0.42	
AUL-18-13	109.0	0.17	
AUL-18-13	112.0	0.05	
AUL-18-13	114.0	0.10	
AUL-18-13	118.0	0.15	
AUL-18-13	124.0	0.05	
AUL-18-13	129.0	0.08	
AUL-18-13	132.0	0.00	
AUL-18-13	133.0	0.00	
AUL-18-13	135.0	0.00	
AUL-18-13	138.0	0.05	
AUL-18-13	141.0	0.20	
AUL-18-13	143.0	0.23	
AUL-18-13	145.0	0.21	
AUL-18-13	146.0	0.15	
AUL-18-13	151.0	0.00	
AUL-18-13	152.5	0.12	
AUL-18-13	153.0	0.10	
AUL-18-13	153.5	1.00	
AUL-18-13	154.0	1.35	
AUL-18-13	155.0	0.13	
AUL-18-13	156.0	0.47	
AUL-18-13	157.0	1.30	
AUL-18-13	158.0	0.60	
AUL-18-13	159.0	0.27	
AUL-18-13	160.0	1.16	
AUL-18-13	162.0	0.20	
AUL-18-13	163.5	0.19	
AUL-18-13	165.0	0.66	

MagSuscept

AUL-18-13	167.0	1.46
AUL-18-13	169.0	2.12
AUL-18-13	172.0	0.54
AUL-18-13	174.0	0.22
AUL-18-13	176	1.26

RQD

BHID	From	To	Recovery	RQD	Comments
AUL-18-13	48	50	3	0.38	
AUL-18-13	50.0	53.0	2.9	1.1	
AUL-18-13	53.0	56.0	3.0	0.9	
AUL-18-13	56.0	59.0	3.0	2.4	
AUL-18-13	59.0	62.0	3.0	2.5	
AUL-18-13	62.0	65.0	3.0	2.2	
AUL-18-13	65.0	68.0	3.0	2.6	
AUL-18-13	68.0	71.0	3.0	2.3	
AUL-18-13	71.0	74.0	3.0	0.6	
AUL-18-13	74.0	77.0	3.0	2.1	
AUL-18-13	77.0	80.0	3.0	2.5	
AUL-18-13	80.0	83.0	3.0	2.4	
AUL-18-13	83.0	86.0	3.0	1.4	
AUL-18-13	86.0	89.0	3.0	2.1	
AUL-18-13	89.0	92.0	3.0	1.1	
AUL-18-13	92.0	95.0	3.0	1.1	
AUL-18-13	95.0	98.0	3.0	1.9	
AUL-18-13	98.0	101.0	3.0	1.9	
AUL-18-13	101.0	104.0	3.0	1.1	
AUL-18-13	104.0	107.0	3.0	2.5	
AUL-18-13	107.0	110.0	3.0	2.5	
AUL-18-13	110.0	113.0	3.0	2.3	
AUL-18-13	113.0	116.0	3.0	2.0	
AUL-18-13	116.0	119.0	3.0	2.2	
AUL-18-13	119.0	122.0	3.0	2.2	
AUL-18-13	122.0	125.0	3.0	2.4	
AUL-18-13	125.0	128.0	3.0	1.8	
AUL-18-13	128.0	131.0	2.9	2.4	
AUL-18-13	131.0	134.0	3.0	1.7	
AUL-18-13	134.0	137.0	3.0	1.1	
AUL-18-13	137.0	140.0	3.0	2.2	
AUL-18-13	140.0	143.0	3.0	3.0	
AUL-18-13	143.0	146.0	3.0	3.0	
AUL-18-13	146.0	149.0	3.0	3.0	
AUL-18-13	149.0	152.0	3.0	2.6	
AUL-18-13	152.0	155.0	3.0	2.6	
AUL-18-13	155.0	158.0	3.0	2.8	
AUL-18-13	158.0	161.0	3.0	2.1	
AUL-18-13	161.0	164.0	3.0	2.6	
AUL-18-13	164.0	167.0	3.0	3.0	
AUL-18-13	167.0	170.0	3.0	3.0	
AUL-18-13	170.0	173.0	3.0	3.0	
AUL-18-13	173.0	176.0	3.0	3.0	

Reflex

BHID	Depth	Az	Az Correct	Dip	Mag Field	Use Az	Use Dip	Comments
AUL-18-13	0.0	180.0		-55.0		Y	Y	As spotted
AUL-18-13	65.0	191.7	178.7	-56.3	5705.0	Y	Y	
AUL-18-13	116.0	191.5	178.5	-55.7	5624.0	Y	Y	
AUL-18-13	176.0	192.1	179.1	-54.7	5620.0	y	y	

Samples

BHID	Sample	From	To	Width	Stand/blank	QV %	Py%	Po%	Arsen Sphalerite	Hem	VG	other
AUL-18-13	1649114	85.0	86.0	1.0				2				
AUL-18-13	1649115	86.0	87.0	1.0				2				
AUL-18-13	1649116	87.0	88.0	1.0				2				
AUL-18-13	1649117	88.0	89.0	1.0				2				
AUL-18-13	1649118	89.0	90.0	1.0				3				
AUL-18-13	1649119	90.0	91.0	1.0				5				
AUL-18-13	1649120	91.0	92.0	1.0				15				
AUL-18-13	1649121	92.0	93.0	1.0				20				
AUL-18-13	1649122	93.0	94.0	1.0				20				
AUL-18-13	1649123	94.0	95.0	1.0				20				
AUL-18-13	1649124	95.0	96.0	1.0								
AUL-18-13	1649125				blank							
AUL-18-13	1649126	96.0	97.0	1.0								
AUL-18-13	1649127	97.0	98.0	1.0								
AUL-18-13	1649128	126.0	127.0	1.0		0.5	2					
AUL-18-13	1649129	127.0	128.0	1.0		0.5	2					
AUL-18-13	1649130	128.0	129.0	1.0		0.5	2					
AUL-18-13	1649131	129.0	130.0	1.0		0.5	2					
AUL-18-13	1649132	130.0	131.0	1.0			2					
AUL-18-13	1649133	131.0	131.7	0.7		3	3					
AUL-18-13	1649134	131.7	132.5	0.8		3	5					
AUL-18-13	1649135	132.5	133.5	1.0		100	10					
AUL-18-13	1649136					216						
AUL-18-13	1649137	133.5	134.5	1.0		90	10					
AUL-18-13	1649138	134.5	135.5	1.0		100	20					
AUL-18-13	1649139	135.5	136.5	1.0		100	15					
AUL-18-13	1649140	136.5	137.5	1.0		100	10					
AUL-18-13	1649141	137.5	138.5	1.0		100	5					
AUL-18-13	1649142	138.5	139.5	1.0		80	15					
AUL-18-13	1649143	139.5	140.5	1.0		100	20					
AUL-18-13	1649144				Blank							
AUL-18-13	1649145	140.5	141.5	1.0		75	10	3				
AUL-18-13	1649146	141.5	142.5	1.0		5	2					Xenolith
AUL-18-13	1649147	142.5	143.5	1.0		75	5	3				
AUL-18-13	1649148	143.5	144.5	1.0		75	10	3				
AUL-18-13	1649149	144.5	145.5	1.0		90	20	6				
AUL-18-13	1649150	145.5	146.5	1.0		75	15	3				Clots up to 1 cm
AUL-18-13	1649151					217						
AUL-18-13	1649152	146.5	147.5	1.0		100	25	20				Clots up to 2 cm
AUL-18-13	1649153	147.5	148.5	1.0		100	35	20				clots to 3 cm
AUL-18-13	1649154				blank							
AUL-18-13	1649155	148.5	149.5	1.0		100	10	6				

Samples

AUL-18-13	1649156	149.5	150.5	1.0		50	5		
AUL-18-13	1649157	150.5	151.5	1.0		80	5		xenolith
AUL-18-13	1649158	151.5	152.0	0.5		100	3		
AUL-18-13	1649159	152.0	153.0	1.0		10	10		
AUL-18-13	1649160	153.0	154.0	1.0		5	10		
AUL-18-13	1649161	154.0	155.0	1.0		5	3		
AUL-18-13	1649162	155.0	156.0	1.0		5	10		
AUL-18-13	1649163	156.0	157.0	1.0		5	3		
AUL-18-13	1649164	157.0	158.2	1.2		10	3		
AUL-18-13	1649165				216				
AUL-18-13	1649166	158.2	159.0	0.8			1		
AUL-18-13	1649167	159.0	160.0	1.0			0.5		
AUL-18-13	1649168	160.0	161.0	1.0					
AUL-18-13	1649169	161.0	162.0	1.0					
AUL-18-13	1649170	162.0	163.0	1.0					
AUL-18-13	1649171	163.0	164.0	1.0					
AUL-18-13	1649172	164.0	165.0	1.0					
AUL-18-13	1649173	165.0	166.0	1.0					
AUL-18-13	1649174				blank				
AUL-18-13	1649175	166.0	167.0	1.0					
AUL-18-13	1649176	167.0	168.0	1.0					
AUL-18-13	1649177	168.0	169.0	1.0					
AUL-18-13	1649178	169.0	170.0	1.0					
AUL-18-13	1649179	170.0	171.0	1.0					
AUL-18-13	1649180	171.0	172.0	1.0					
AUL-18-13	1649181	172.0	173.0	1.0					
AUL-18-13	1649182	173.0	174.0	1.0					
AUL-18-13	1649183	174.0	175.0	1.0					
AUL-18-13	1649184	175.0	176.0	1.0					whole rock

Header

DDH ID	AUL-18-14					
	Claim #	East	North	Az	Dip	EOH (m) (Nad 83)
Location	3019086	592304	5483231	180	-65	201
Purpose	Test Mikwam Zone					
Start date	Aug 27 2018					
End date	Aug 30 2018					
Drill Contractor	Norex Drilling					
Logged By	T.Keast					
Comments	Casing left in hole					

Description

BHID	From	To	Litho	Comment
AUL-18-14	0	45	CAS	Casing through overburden
AUL-18-14	45	100.2	ARGgry	Argillite Grey - Fine grained banded/bedded laminations/bedding, 1mm to 1 cm wide. Alternation light and grey bands, rare dark grey band. 1% carb veins along foliation, py cubes up to 1 cm. 45-56 broken blocky core Hard just able to scratch, folding throughout cleavage.
AUL-18-14	100.2	107.2	ARGblk	Argillite Black - Dark black fine grained, strong foliation. Fine banding/laminations. 100.2 - 101.1 Qtz vein, barren. 101-103.4 15-20% py in 1 cm clots and fine disseminations, not laminations. Individual grains poor connectivity, non conductive. 103.4-107.2 5% py in fine grains in laminations.
AUL-18-14	107.2	117.7	WACKE	Greywacke? - Grey medium grained mod foliated homogeneous unit. Granular appearance, not banded. Sharp Upper contact.
AUL-18-14	117.7	128.1	ARGblk	Argillite Black - Dark black fine grained, strong foliation. Fine banding/laminations. 1% carb veins along foliation, py cubes up to 1 cm. Scattered intervals with tight isoclinal folding. 1-5% py in fine disseminations and poorly defined laminations. 122.0-126.6 10-15% folded irregular qtz carb veins.
AUL-18-14	128.1	134	ARGgry	Argillite Grey - Fine grained bands/beds. Strongly foliated. 5% carb veins, 1% py cubes
AUL-18-14	134	146.4	ARGblk	Argillite Black - Strongly folded dark black fine grained. 5-10% carb veins.
AUL-18-14	146.4	151.2	ARGgry	Argillite Grey - Fine grained strong foliation

Description

AUL-18-14	151.2	152.3	FAULT	<p>Fault Zone - Structurally complex zone of strong foliation and fault breccia. Healed angular fragments in qtz carb chlorite matrix. 5-10% qtz carb veins, some veins brecciated, soft fault gouge. Sharp upper contact</p>
AUL-18-14	152.3	188.3	MINZON	<p>Mineralized Zone - Mineralized zone consisting of quartz veins, mottled with xenoliths of altered wall rock fragments, Rock fragments bleached foliated. Semi massive py sections in vein breccia. Overall 10-15% py, with clots of arsenopyrite. Sharp upper contact 45 to Ca</p> <p>Intervals with lower % of Qv's have bleached wall rock xenoliths with 1-3% fine py.</p>
AUL-18-14	188.3	191.9	BLCHfw	<p>Intrusion ? With Qtz Veins - Light buff momogenous unit moderate foliated, granualr texture Qtz sericite rich. Rare wide spaced bands possible wacke unit?</p> <p>3-5 % Quartz veins along foliation raggedy veins less then 5 cm wide. 1-3% py</p>
AUL-18-14	191.9	194	BLCHfw	<p>Intrusion ? Light buff color granular apperace homogenous. Mod foliation.</p>
AUL-18-14	194	201	WACKE	<p>Greywacke - Medium grained granular appearance with scattered fine bands. Scattered dark black clasts possible rip clast of black argillite</p> <p>clasts are rare widely spaced angular. (does not look like conglomerate.</p>

EOH

Mineralization

BHID	From	To	Qtz Veins %	Py %	Po %	Arseno %	Other	Comments	Conductors (tested with ohmeter)
AUL-18-14	100.0	103.4		15				Disseminations and clots, non conductive	
AUL-18-14	151.2	152.3	10	2					
AUL-18-14	152.3	188.3	15	5			1		
AUL-18-14	188.3	192.0	5	3					

Structure

BHID	Depth	Deg to CA	Comment	Comment
AUL-18-14	48.5	25	Foliation	Banding/bedding
AUL-18-14	54.0	25	Foliation	Banding/bedding
AUL-18-14	58.5	40	Foliation	
AUL-18-14	65.2	20	Foliation	Banding/bedding
AUL-18-14	68.0	0	Foliation	small scale fold
AUL-18-14	76.0	20	Foliation	Banding/bedding
AUL-18-14	82.0	30	Foliation	Banding/bedding
AUL-18-14	86.0	25	Foliation	Banding/bedding
AUL-18-14	94.5	15	Foliation	small scale fold
AUL-18-14	98.5	5	Foliation	
AUL-18-14	104.0	30	Foliation	Banding/bedding
AUL-18-14	107.0	30	Foliation	
AUL-18-14	112.5	5	Foliation	small scale fold
AUL-18-14	115.0	30	Foliation	Banding/bedding
AUL-18-14	124.0	30	Foliation	small scale fold
AUL-18-14	127.5	70	Foliation	1mm laminations/band
AUL-18-14	134.0	20	Foliation	
AUL-18-14	142.5	30	Foliation	
AUL-18-14	151.0	40	Foliation	
AUL-18-14	152.2	25	Contact	
AUL-18-14	155.0	35	Foliation	
AUL-18-14	158.0	10	Foliation	
AUL-18-14	181.0	20	Foliation	
AUL-18-14	185.0	40	Foliation	
AUL-18-14	186.0	35	Foliation	
AUL-18-14	189.5	30	Foliation	
AUL-18-14	193.0	25	Foliation	
AUL-18-14	199.0	25	Foliation	

MagSuscept

BHID	Depth	MS	<i>Terraplus KT-5 Magnetic Susceptibility Meter</i>
AUL-18-14	46.5	0.06	
AUL-18-14	50.0	0.07	
AUL-18-14	54.0	0.07	
AUL-18-14	60.0	0.14	
AUL-18-14	67.0	0.07	
AUL-18-14	74.0	0.11	
AUL-18-14	86.0	0.15	
AUL-18-14	93.0	0.05	
AUL-18-14	96.0	0.24	
AUL-18-14	97.0	2.90	
AUL-18-14	98.0	2.06	
AUL-18-14	99.0	0.02	
AUL-18-14	100.0	0.11	
AUL-18-14	102.0	0.02	
AUL-18-14	103.0	0.01	
AUL-18-14	104.0	0.04	
AUL-18-14	106.0	0.07	
AUL-18-14	110.0	0.06	
AUL-18-14	116.0	0.01	
AUL-18-14	121.0	0.03	
AUL-18-14	125.0	0.55	
AUL-18-14	127.5	0.21	
AUL-18-14	131.0	0.00	
AUL-18-14	137.0	0.03	
AUL-18-14	142.0	0.04	
AUL-18-14	148.0	0.00	
AUL-18-14	151.0	0.00	
AUL-18-14	152.0	0.03	
AUL-18-14	156.0	0.03	
AUL-18-14	159.0	0.03	
AUL-18-14	159.6	0.08	
AUL-18-14	164.0	0.19	
AUL-18-14	167.0	0.28	
AUL-18-14	168.0	0.29	
AUL-18-14	171.0	0.21	
AUL-18-14	174.0	0.29	
AUL-18-14	176.5	0.24	
AUL-18-14	179.0	0.00	
AUL-18-14	183.0	0.19	
AUL-18-14	184.0	0.88	
AUL-18-14	185.0	0.02	
AUL-18-14	187.0	0.16	
AUL-18-14	188.0	0.03	
AUL-18-14	188.1	1.92	
AUL-18-14	189.0	0.91	
AUL-18-14	190.0	1.97	

MagSuscept

AUL-18-14	192.0	1.76
AUL-18-14	194.5	1.40
AUL-18-14	195.0	0.20
AUL-18-14	196.5	0.74
AUL-18-14	198	1.54
AUL-18-14	201	0.74

RQD

BHID	From	To	Recovery	RQD	Comments
AUL-18-14	45	47	2	0.3	
AUL-18-14	47.0	50.0	3.0	0.8	
AUL-18-14	50.0	53.0	3.0	0.4	
AUL-18-14	53.0	56.0	3.0	1.6	
AUL-18-14	56.0	59.0	3.0	2.2	
AUL-18-14	59.0	62.0	3.0	1.8	
AUL-18-14	62.0	65.0	3.0	2.2	
AUL-18-14	65.0	68.0	3.0	2.6	
AUL-18-14	68.0	71.0	3.0	2.1	
AUL-18-14	71.0	74.0	3.0	1.9	
AUL-18-14	74.0	77.0	3.0	2.1	
AUL-18-14	77.0	80.0	3.0	2.4	
AUL-18-14	80.0	83.0	3.0	2.3	
AUL-18-14	83.0	86.0	3.0	2.4	
AUL-18-14	86.0	89.0	3.0	2.2	
AUL-18-14	89.0	92.0	3.0	2.3	
AUL-18-14	92.0	95.0	3.0	2.4	
AUL-18-14	95.0	98.0	3.0	2.9	
AUL-18-14	98.0	101.0	3.0	2.3	
AUL-18-14	101.0	104.0	3.0	2.5	
AUL-18-14	104.0	107.0	3.0	2.9	
AUL-18-14	107.0	110.0	3.0	2.8	
AUL-18-14	110.0	113.0	3.0	2.8	
AUL-18-14	113.0	116.0	3.0	2.8	
AUL-18-14	116.0	119.0	3.0	2.6	
AUL-18-14	119.0	122.0	3.0	2.6	
AUL-18-14	122.0	125.0	3.0	2.6	
AUL-18-14	125.0	128.0	3.0	2.9	
AUL-18-14	128.0	131.0	3.0	2.6	
AUL-18-14	131.0	134.0	3.0	2.1	
AUL-18-14	134.0	137.0	3.0	2.9	
AUL-18-14	137.0	140.0	3.0	2.5	
AUL-18-14	140.0	143.0	3.0	2.5	
AUL-18-14	143.0	146.0	3.0	2.6	
AUL-18-14	146.0	149.0	3.0	2.1	
AUL-18-14	149.0	152.0	3.0	1.8	
AUL-18-14	152.0	155.0	3.0	1.9	
AUL-18-14	155.0	158.0	3.0	2.6	
AUL-18-14	158.0	161.0	3.0	2.9	
AUL-18-14	161.0	164.0	3.0	2.8	
AUL-18-14	164.0	167.0	3.0	1.9	
AUL-18-14	167.0	170.0	3.0	3.0	
AUL-18-14	170.0	173.0	3.0	3.0	
AUL-18-14	173.0	176.0	3.0	2.9	
AUL-18-14	176.0	179.0	3.0	2.9	
AUL-18-14	179.0	182.0	3.0	2.9	

RQD

AUL-18-14	182.0	185.0	3.0	3.0
AUL-18-14	185.0	188.0	3.0	2.9
AUL-18-14	188.0	191.0	3.0	2.8
AUL-18-14	191.0	194.0	3.0	2.8
AUL-18-14	194.0	197.0	3.0	2.9
AUL-18-14	197.0	200.0	3.0	2.9
AUL-18-14	200.0	201.0	1.0	1.0

Reflex

BHID	Depth	Az	Az Correct	Dip	Mag Field	Use Az	Use Dip	Comments
AUL-18-14	0.0	180.0		-65.0		Y	Y	As spotted
AUL-18-14	59.0	190.2	177.2	-65.6	5733.0	Y	Y	
AUL-18-14	110.0	188.5	175.5	-65.7	5663.0	Y	Y	
AUL-18-14	161.0	188.5	175.5	-65.6	5647.0	y	y	
AUL-18-14	201.0	194.8	181.8	-65.6	5614.0	Y	Y	

Samples

BHID	Sample	From	To	Width	Stand/blank	QV %	Py%	Po%	Arsen Sphalerite	Hem	VG	other
AUL-18-14	1649185	99.0	100.2	1.2								
AUL-18-14	1649186	100.2	101.0	0.8								
AUL-18-14	1649187	101.0	102.0	1.0								
AUL-18-14	1649188	102.0	103.0	1.0								
AUL-18-14	1649189	103.0	104.0	1.0								
AUL-18-14	1649190	104.0	105.0	1.0								
AUL-18-14	1649191				blank							
AUL-18-14	1649192	121.0	122.0	1.0								
AUL-18-14	1649193	122.0	123.0	1.0								
AUL-18-14	1649194	123.0	124.0	1.0								
AUL-18-14	1649195	124.0	125.0	1.0								
AUL-18-14	1649196	125.0	126.2	1.2								
AUL-18-14	1649197	126.2	127.0	0.8								
AUL-18-14	1649198	127.0	128.0	1.0								
AUL-18-14	1649199	147.0	148.0	1.0								
AUL-18-14	1649200	148.0	149.0	1.0								
AUL-18-14	1649201	149.0	150.0	1.0			2	2				
AUL-18-14	1649202	150.0	151.2	1.2			2	2				
AUL-18-14	1649203	151.2	152.3	1.1			2	3				
AUL-18-14	1649204	152.3	153.0	0.7		100		5				
AUL-18-14	1649205					216						
AUL-18-14	1649206	153.0	154.0	1.0			100	3				
AUL-18-14	1649207	154.0	155.0	1.0			100	5				
AUL-18-14	1649208	155.0	156.0	1.0			80	10				
AUL-18-14	1649209	156.0	157.0	1.0			100	5				
AUL-18-14	1649210	157.0	158.0	1.0			100	10				
AUL-18-14	1649211				blank							
AUL-18-14	1649212	158.0	159.0	1.0			100	15	6			
AUL-18-14	1649213	159.0	160.0	1.0			100	20	5			
AUL-18-14	1649214	160.0	161.0	1.0			100	15	10			
AUL-18-14	1649215	161.0	162.0	1.0			95	10	3			
AUL-18-14	1649216	162.0	163.0	1.0			100	5	2			
AUL-18-14	1649217	163.0	164.0	1.0			80	10	2			
AUL-18-14	1649218					217						
AUL-18-14	1649219	164.0	165.0	1.0			20	5				
AUL-18-14	1649220	165.0	166.0	1.0			50	15	5			
AUL-18-14	1649221	166.0	167.0	1.0			20	5				
AUL-18-14	1649222	167.0	168.0	1.0			0	5				
AUL-18-14	1649223	168.0	169.0	1.0			80	15	5			
AUL-18-14	1649224	169.0	170.0	1.0			30	7				
AUL-18-14	1649225	170.0	171.0	1.0			80	5				
AUL-18-14	1649226	171.0	172.0	1.0			90	5				

Samples

AUL-18-14	1649227	172.0	173.0	1.0		100	15	8	
AUL-18-14	1649228	173.0	174.0	1.0		50	5		
AUL-18-14	1649229	174.0	175.0	1.0		50	5		
AUL-18-14	1649230	175.0	176.0	1.0		90	5		
AUL-18-14	1649231	176.0	177.0	1.0		0	3		
AUL-18-14	1649232	177.0	178.0	1.0		25	7		
AUL-18-14	1649233				216				
AUL-18-14	1649234	178.0	179.0	1.0		75	15	3	
AUL-18-14	1649235	179.0	180.0	1.0		100	15	1	
AUL-18-14	1649236	180.0	181.0	1.0		10	3		
AUL-18-14	1649237	181.0	182.0	1.0		5	5		
AUL-18-14	1649238				blank				
AUL-18-14	1649239	182.0	183.0	1.0			3		
AUL-18-14	1649240	183.0	184.0	1.0		10	15	10	
AUL-18-14	1649241	184.0	185.0	1.0		100	10	3	
AUL-18-14	1649242	185.0	186.0	1.0		100	20	10	
AUL-18-14	1649243	186.0	187.0	1.0		100	10	10	
AUL-18-14	1649244	187.0	187.8	0.8		100	3		
AUL-18-14	1649245	187.8	188.3	0.6		100	2		
AUL-18-14	1649246	188.3	189.5	1.2		0	3		Whole Rock
AUL-18-14	1649247	189.5	190.5	1.0		3	3		
AUL-18-14	1649248	190.5	191.9	1.4		50	3		
AUL-18-14	1649249	191.9	193.0	1.1		0	1		
AUL-18-14	1649250	193.0	194.0	1.0		0	1		
AUL-18-14	1649251				217				
AUL-18-14	1649252	194.0	195.0	1.0		0	0		
AUL-18-14	1649253	195.0	196.0	1.0		0	0		
AUL-18-14	1649254	196.0	197.0	1.0		0	0		Whole Rock
AUL-18-14	1649255	197.0	198.0	1.0		0	0		
AUL-18-14	1649256	198.0	199.0	1.0		0	0		
AUL-18-14	1649257	199.0	200.0	1.0		0	0		
AUL-18-14	1649258	200.0	201.0	1.0		0	0		

Header

DDH ID	AUL-18-15					
	Claim #	East	North	Az	Dip	EOH (m) (Nad 83)
Location	3019086	592304	5483231	180	-75	275
Purpose	Test Mikwam Zone					
Start date	Aug 30 2018					
End date	Sep 1 2018					
Drill Contractor	Norex Drilling					
Logged By	T.Keast					
Comments	Casing left in hole					

Description

BHID	From	To	Litho	Comment
AUL-18-15	0	45	CAS	Casing through overburden
AUL-18-15	45	135.4	ARGGry	<p>Argillite Grey - Fine grained banded/bedded laminations/bedding, 1mm to 1 cm wide. Alternating light and grey bands, rare dark grey band.</p> <p>Overall dark grey but not Black argillite, has wide spaced discrete light bands/beds.</p> <p>1% carb veins along foliation, py cubes up to 5 mm.</p> <p>48-53 broken blocky core.</p> <p>190 196 Dark interval with a distinct "wavy texture, coarse crenulation with chlorite".</p> <p>Hard just able to scratch</p> <p>@109 Hardness increases, not able to scratch, conchoidal fracture on core ends.</p>
AUL-18-15	135.4	142.5	ARGBlk	<p>Argillite Black - Dark black fine grained well banded, laminated.</p> <p>Sharp upper contact</p> <p>137 - 139 fine py grains in 1mm lamination.</p> <p>H 7</p>
AUL-18-15	142.5	148	ARGgry	<p>Argillite Grey Brecciated - Distinct grey banding/bedding/laminations however the interval is tightly folded and</p> <p>distinctly brecciated. Angular fragments, boudinaged qtz carb veins 1 cm wide.</p> <p>1% py cubes up to 8mm.</p> <p>10-15% carb in narrow veins.stringers in breccia.</p> <p>Sharp abrupt contact.</p> <p>Hardness > 7.</p>
AUL-18-15	148	179.5	ARGgry	Argillite Grey - Distinct lighter grey bands/beds/laminations grey-dark grey.

Description

Entire interval has foliation low 0-10 deg to CA core angles.

Local intervals display tight S drag folding.

176.0 S drag fold

H>7

AUL-18-15 179.5 184.6 ARGgry Argillite Grey Brecciated - Distinct grey banding/bedding/laminations however the interval is tightly folded and distinctly brecciated. Angular fragments of banded material with boudinaged qtz carb veins 1 cm wide.
1% py cubes up to 8mm.
Gradational upper contact

H >7

AUL-18-15 184.6 188.5 ARGshd Sericite-Quartz Breccia - Light buff, distinct sericite quartz rich brecciated interval. Brecciated fragments of grey argillite/banded appearance replaced by sericite quartz.
7-10% brecciated dark grey veins.
1-3% py cubes

H>7

AUL-18-15 188.5 195.6 Fault Fault Zone - Structurally complex zone of strong foliation and fault breccia.
Foliation 0-10 deg to CA.
Angular fragments in healed qtz carb matrix.
abrupt upper contact.
189.5 10 cm interval of soft friable fault gouge.
193.0-194.0 Aphanitic grey-buff silica rich interval. Massive with qtz stringers in fractures.
H>>7

194.0-194.2 Strong foliated/banded interval of Grey Argillite preserved in fault.
194.2-195.0 White Quartz vein tr py.

Description

195.0-195.6 Distinct darker green fault with fine hairline fracture filling carbonate veins.

AUL-18-15 195.6 221.7 MinZon Mineralized Zone - Strong mineralized section consisting of >90% mottled white/grey quartz veins,

Overall 15% py fine grained in crude patches and poorly formed stringers. In places py up to 25-35% over 25 cm intervals. Weakly conductive over 2 cm length of core. Arsenopyrite in concentrations within the pyrite rich areas. Arsenopyrite up to 3% over short intervals 50cm.

Wall fragments of banded material (grey argillite several cm in length). Sharp upper contact.

AUL-18-15 221.7 229.8 BLCHfw Intrusion ? With Qtz Veins - Light buff-yellow sericite rich homogenous unit strongly foliated, granular medium grained looking texture. Qtz sericite rich foliation mod to strong with 1mm qtz eyes 1mm. Rare faint bands, wacke?

10-15 % Quartz veins up to 20cm wide, along foliation and cross cutting. 1-3% py. H>7

AUL-18-15 229.8 244.7 CONG Conglomerate - Light-dark green with faint/distinct conglomerate clasts. Clasts of intrusive and volcanic material. Clasts up to 10 cm. Mod foliation. 3-5% white quartz veins with fine 1-2% py. H>7

AUL-18-15 244.7 253.6 BLCHfw Intrusion ? With Qtz Veins - Light buff-yellow sericite rich homogenous unit strongly foliated, granular medium grained looking texture. Qtz sericite rich foliation mod to strong with 1mm qtz eyes 1mm.

15-20% Quartz veins up to 35 cm wide, along foliation and cross cutting. 1-3% py. 244.9 small cluster of steel blue metallic mineral. 245.8 4 small clusters of steel blue metallic mineral, tr sph

Description

H>7

0

AUL-18-15 253.6 275 WACKE Greywacke ? - Massive moderate foliation, medium grained homogenous.
Sericite rich with 1mm grey qtz eyes (intrusion).

EOH

Mineralization

BHID	From	To	Qtz Veins %	Py %	Po %	Arseno %	Other	Comments	Conductors (tested with ohmeter)
AUL-18-15	142.5	148.0	10	1					
AUL-18-15	179.5	184.6	3	1					
AUL-18-15	184.6	188.5	10	3					
AUL-18-15	188.5	194.2	3	1					
AUL-18-15	194.2	195.0	95	1					
AUL-18-15	195.0	195.6	25	1					
AUL-18-15	195.6	221.7	90	10			3		
AUL-18-15	221.7	229.8	15	3					
AUL-18-15	229.8	244.7	5	2					
AUL-18-15	244.7	253.6	20	3				244.9 Steel blue mineral, 245.8 steel blue mineral	
AUL-18-15	253.6	275.0		1					

Structure

BHID	Depth	Deg to CA	Comment	Comment
AUL-18-15	50.0	50	Foliation	Banding/bedding
AUL-18-15	55.0	35	Foliation	
AUL-18-15	56.0	10	Foliation	
AUL-18-15	66.0	30	Foliation	Banding/bedding
AUL-18-15	76.0	20	Foliation	
AUL-18-15	82.0	20	Foliation	
AUL-18-15	91.0	30	Foliation	Crenulations
AUL-18-15	104.0	25	Foliation	Banding/bedding
AUL-18-15	112.0	20	Foliation	
AUL-18-15	125.0	25	Foliation	Banding/bedding
AUL-18-15	134.5	20	Foliation	Banding/bedding
AUL-18-15	140.0	30	Foliation	Banding/bedding
AUL-18-15	143.0	10	Foliation	
AUL-18-15	152.0	20	Foliation	
AUL-18-15	161.0	10	Foliation	Banding/bedding
AUL-18-15	163.0	5	Foliation	
AUL-18-15	173.0	0	Foliation	
AUL-18-15	176.0	0	Foliation	
AUL-18-15	182.0	20	Foliation	
AUL-18-15	188.0	5	Foliation	
AUL-18-15	192.0	0	Foliation	
AUL-18-15	194.2	35	Foliation	contact
AUL-18-15	208.0	20	Foliation	Xenolith
AUL-18-15	211.0	65	Foliation	Sulphide margin
AUL-18-15	219.0	40	Foliation	Sulphide margin
AUL-18-15	225.0	30	Foliation	Qtz veins
AUL-18-15	230.0	35	Foliation	
AUL-18-15	243.6	30	Foliation	Qtz veins
AUL-18-15	251	20	Foliation	
AUL-18-15	258	0	Foliation	
AUL-18-15	264	5	Foliation	
AUL-18-15	268	5	Foliation	
AUL-18-15	274	5	Foliation	

MagSuscept

BHID	Depth	MS	<i>Terraplus KT-5 Magnetic Susceptibility Meter</i>
AUL-18-15	50.0	0.13	
AUL-18-15	59.0	0.17	
AUL-18-15	65.0	0.01	
AUL-18-15	75.0	0.14	
AUL-18-15	80.5	0.00	
AUL-18-15	88.0	0.19	
AUL-18-15	93.0	0.15	
AUL-18-15	96.0	0.16	
AUL-18-15	100.0	0.04	
AUL-18-15	104.0	0.26	
AUL-18-15	113.0	0.14	
AUL-18-15	118.0	0.37	
AUL-18-15	126.0	0.15	
AUL-18-15	133.0	0.02	
AUL-18-15	138.5	0.06	
AUL-18-15	143.0	0.33	
AUL-18-15	149.0	0.32	
AUL-18-15	150.5	0.28	
AUL-18-15	153.0	2.03	
AUL-18-15	156.0	3.14	
AUL-18-15	159.0	0.18	
AUL-18-15	164.5	0.89	
AUL-18-15	168.0	2.79	
AUL-18-15	171.0	1.20	
AUL-18-15	175.0	0.97	
AUL-18-15	179.0	0.53	
AUL-18-15	184.0	2.19	
AUL-18-15	186.0	0.56	
AUL-18-15	188.0	0.23	
AUL-18-15	192.0	0.08	
AUL-18-15	195.0	0.05	
AUL-18-15	197.0	0.04	
AUL-18-15	198.0	0.03	
AUL-18-15	199.0	0.01	
AUL-18-15	201.0	0.00	
AUL-18-15	203.0	0.19	
AUL-18-15	206.0	0.45	
AUL-18-15	209.0	0.24	
AUL-18-15	213.0	0.37	
AUL-18-15	215.0	0.23	
AUL-18-15	217.0	0.28	
AUL-18-15	218.5	0.06	
AUL-18-15	221.0	0.01	
AUL-18-15	222.0	0.05	
AUL-18-15	224.0	0.51	
AUL-18-15	227.0	0.16	

MagSuscept

AUL-18-15	230.0	0.70
AUL-18-15	232.0	0.67
AUL-18-15	235.0	0.43
AUL-18-15	237.0	0.16
AUL-18-15	240	0.17
AUL-18-15	241	0.26
AUL-18-15	242.5	0.44
AUL-18-15	243	1.27
AUL-18-15	244	1.23
AUL-18-15	246	0.52
AUL-18-15	247	0.32
AUL-18-15	251	0.52
AUL-18-15	253	0.09
AUL-18-15	255	0.29
AUL-18-15	257	0.57
AUL-18-15	258	2.54
AUL-18-15	260	2.84
AUL-18-15	263	1.95
AUL-18-15	266	3.54
AUL-18-15	269	0.31
AUL-18-15	270	0.27
AUL-18-15	273	0.2
AUL-18-15	275	0.3

RQD

BHID	From	To	Recovery	RQD	Comments
AUL-18-15	48	50	2	0.27	
AUL-18-15	50.0	53.0	3.0	0.5	
AUL-18-15	53.0	56.0	3.0	1.7	
AUL-18-15	56.0	59.0	3.0	2.9	
AUL-18-15	59.0	62.0	3.0	2.8	
AUL-18-15	62.0	65.0	3.0	2.4	
AUL-18-15	65.0	68.0	3.0	2.1	
AUL-18-15	68.0	71.0	3.0	2.2	
AUL-18-15	71.0	74.0	3.0	2.3	
AUL-18-15	74.0	77.0	3.0	2.7	
AUL-18-15	77.0	80.0	3.0	2.5	
AUL-18-15	80.0	83.0	3.0	2.0	
AUL-18-15	83.0	86.0	3.0	0.7	
AUL-18-15	86.0	89.0	3.0	1.4	
AUL-18-15	89.0	92.0	3.0	1.8	
AUL-18-15	92.0	95.0	3.0	1.1	
AUL-18-15	95.0	98.0	3.0	2.4	
AUL-18-15	98.0	101.0	3.0	2.2	
AUL-18-15	101.0	104.0	3.0	2.5	
AUL-18-15	104.0	107.0	3.0	2.3	
AUL-18-15	107.0	110.0	3.0	2.9	
AUL-18-15	110.0	113.0	3.0	2.7	
AUL-18-15	113.0	116.0	3.0	2.8	
AUL-18-15	116.0	119.0	3.0	2.9	
AUL-18-15	119.0	122.0	3.0	2.4	
AUL-18-15	122.0	125.0	3.0	2.1	
AUL-18-15	125.0	128.0	3.0	2.4	
AUL-18-15	128.0	131.0	3.0	2.7	
AUL-18-15	131.0	134.0	3.0	2.1	
AUL-18-15	134.0	137.0	3.0	2.8	
AUL-18-15	137.0	140.0	3.0	2.7	
AUL-18-15	140.0	143.0	3.0	2.5	
AUL-18-15	143.0	146.0	3.0	2.5	
AUL-18-15	146.0	149.0	3.0	2.8	
AUL-18-15	149.0	152.0	3.0	3.0	
AUL-18-15	152.0	155.0	3.0	2.9	
AUL-18-15	155.0	158.0	3.0	2.6	
AUL-18-15	158.0	161.0	3.0	2.6	
AUL-18-15	161.0	164.0	3.0	2.6	
AUL-18-15	164.0	167.0	3.0	2.2	
AUL-18-15	167.0	170.0	3.0	2.7	
AUL-18-15	170.0	173.0	3.0	2.7	
AUL-18-15	173.0	176.0	3.0	3.0	
AUL-18-15	176.0	179.0	3.0	3.0	
AUL-18-15	179.0	182.0	3.0	2.8	
AUL-18-15	182.0	185.0	3.0	2.6	

RQD

AUL-18-15	185.0	188.0	3.0	2.7
AUL-18-15	188.0	191.0	3.0	1.8
AUL-18-15	191.0	194.0	3.0	2.3
AUL-18-15	194.0	197.0	3.0	2.9
AUL-18-15	197.0	200.0	3.0	2.9
AUL-18-15	200.0	203.0	3.0	2.9
AUL-18-15	203.0	206.0	3.0	2.7
AUL-18-15	206.0	209.0	3.0	2.9
AUL-18-15	209.0	212.0	3.0	3.0
AUL-18-15	212.0	215.0	3.0	3.0
AUL-18-15	215.0	218.0	3.0	2.8
AUL-18-15	218.0	221.0	3.0	2.7
AUL-18-15	221.0	224.0	3.0	3.0
AUL-18-15	224.0	227.0	3.0	3.0
AUL-18-15	227.0	230.0	3.0	2.9
AUL-18-15	230.0	233.0	3.0	2.9
AUL-18-15	233.0	236.0	3.0	3.0
AUL-18-15	236.0	239.0	3.0	3.0
AUL-18-15	239.0	242.0	3.0	3.0
AUL-18-15	242.0	245.0	3.0	2.8
AUL-18-15	245.0	248.0	3.0	2.9
AUL-18-15	248.0	251.0	3.0	2.9
AUL-18-15	251.0	254.0	3.0	2.9
AUL-18-15	254.0	257.0	3.0	2.7
AUL-18-15	257.0	260.0	3.0	2.7
AUL-18-15	260.0	263.0	3.0	2.8
AUL-18-15	263.0	266.0	3.0	3.0
AUL-18-15	266.0	269.0	3.0	2.9
AUL-18-15	269.0	272.0	3.0	3.0
AUL-18-15	272.0	275.0	3.0	3.0

Reflex

BHID	Depth	Az	Az Correct	Dip	Mag Field	Use Az	Use Dip	Comments
AUL-18-15	0.0		180.0	-75.0		Y	Y	As spotted
AUL-18-15	59.0	191.3	178.3	-75.6	5762.0	Y	Y	
AUL-18-15	110.0	187.7	174.7	-75.3	5673.0	Y	Y	
AUL-18-15	161.0	190.5	177.5	-74.8	5645.0	y	y	
AUL-18-15	212.0	192.8	179.8	75.6	5765.0	y	y	
AUL-18-15	263.0	196.8	183.8	-75.5	5630.0	y	y	

Samples

BHID	Sample	From	To	Width	Stand/blank	QV %	Py%	Po%	Arsen Sphalerite	Hem	VG	other
AUL-18-15	1649259	141.5	142.5	1.0			1					
AUL-18-15	1649260	142.5	143.5	1.0			10	2				
AUL-18-15	1649261	143.5	144.5	1.0			10	2				
AUL-18-15	1649262	144.5	145.5	1.0			10	2				
AUL-18-15	1649263	145.5	146.5	1.0			10	2				
AUL-18-15	1649264	146.5	147.5	1.0			10	2				
AUL-18-15	1649265	147.5	148.0	0.5			10	2				
AUL-18-15	1649266	148.0	149.0	1.0				2				
AUL-18-15	1649267	178.5	179.5	1.0								
AUL-18-15	1649268	179.5	180.5	1.0								
AUL-18-15	1649269	180.5	181.5	1.0			1	3				
AUL-18-15	1649270	181.5	182.5	1.0			3	3				
AUL-18-15	1649271				blank							
AUL-18-15	1649272	182.5	183.5	1.0			1	1				
AUL-18-15	1649273	183.5	184.6	1.1				0.5				
AUL-18-15	1649274					217						
AUL-18-15	1649275	184.6	185.5	0.9			5	3				
AUL-18-15	1649276	185.5	186.5	1.0			7	3				
AUL-18-15	1649277	186.5	187.5	1.0			1	2				
AUL-18-15	1649278	187.5	188.5	1.0			3	3				
AUL-18-15	1649279	188.5	189.5	1.0				1				
AUL-18-15	1649280	189.5	190.5	1.0								
AUL-18-15	1649281	190.5	191.5	1.0				1				
AUL-18-15	1649282	191.5	192.5	1.0			1	1				
AUL-18-15	1649283	192.5	193.5	1.0			3	1				
AUL-18-15	1649284	193.5	194.5	1.0			20	2				
AUL-18-15	1649285	194.5	195.6	1.1			50	2				
AUL-18-15	1649286	195.6	196.5	0.9			100	3	1			
AUL-18-15	1649287	196.5	197.5	1.0			100	3	0			
AUL-18-15	1649288	197.5	198.5	1.0			100	25	10			
AUL-18-15	1649289	198.5	199.5	1.0			100	15	5			
AUL-18-15	1649290	199.5	200.5	1.0			100	10	4			
AUL-18-15	1649291	200.5	201.5	1.0			100	15	1			
AUL-18-15	1649292				blank							
AUL-18-15	1649293	201.5	202.5	1.0			80	10	2			
AUL-18-15	1649294	202.5	203.5	1.0			100	15	8			
AUL-18-15	1649295					216						
AUL-18-15	1649296	203.5	204.5	1.0			25	15	2			
AUL-18-15	1649297	204.5	205.5	1.0			50	15	10			
AUL-18-15	1649298	205.5	206.5	1.0			10	10				
AUL-18-15	1649299	206.5	207.5	1.0			50	15	20			
AUL-18-15	1649300	207.5	208.5	1.0			90	10	10			

Samples

AUL-18-15	1649301	208.5	209.5	1.0		100	15	15	
AUL-18-15	1649302	209.5	210.5	1.0		100	15	15	
AUL-18-15	1649303	210.5	211.5	1.0		100	25	30	
AUL-18-15	1649304	211.5	212.5	1.0		100	15	4	
AUL-18-15	1649305	212.5	213.5	1.0		25	3	2	
AUL-18-15	1649306	213.5	214.5	1.0		75	10	0.05	
AUL-18-15	1649307	214.5	215.5	1.0		90	15	0.03	
AUL-18-15	1649308	215.5	216.5	1.0		50	15	0.01	
AUL-18-15	1649309				217				
AUL-18-15	1649310	216.5	217.5	1.0		75	15	0.03	
AUL-18-15	1649311	217.5	218.5	1.0		75	10	0.03	
AUL-18-15	1649312	218.5	219.5	1.0		25	15	0.03	
AUL-18-15	1649313	219.5	220.5	1.0		80	20	5	
AUL-18-15	1649314	220.5	221.7	1.2		100	15	0.03	
AUL-18-15	1649315				blank				
AUL-18-15	1649316	221.7	222.5	0.8		50	3		
AUL-18-15	1649317	222.5	223.5	1.0		15	3		
AUL-18-15	1649318	223.5	224.5	1.0		20	3		
AUL-18-15	1649319	224.5	225.5	1.0		20	3		
AUL-18-15	1649320	225.5	226.5	1.0		10	3		
AUL-18-15	1649321	226.5	227.5	1.0		20	3		
AUL-18-15	1649322	227.5	228.5	1.0		50	3		
AUL-18-15	1649323				216				
AUL-18-15	1649324	228.5	229.8	1.3		50	3		
AUL-18-15	1649325	229.8	231.0	1.2		10	3		
AUL-18-15	1649326	231.0	232.0	1.0		2	3		
AUL-18-15	1649327	232.0	233.0	1.0		5	3		
AUL-18-15	1649328	233.0	234.0	1.0		5	3		
AUL-18-15	1649329	234.0	235.0	1.0		10	3		
AUL-18-15	1649330	235.0	236.0	1.0		15	3		
AUL-18-15	1649331	236.0	237.0	1.0		10	3		
AUL-18-15	1649332	237.0	238.0	1.0		10	3		
AUL-18-15	1649333	238.0	239.0	1.0		5	3		
AUL-18-15	1649334	239.0	240.0	1.0		5	3		
AUL-18-15	1649335	240.0	241.0	1.0			2		
AUL-18-15	1649336	241.0	242.0	1.0		2	3		
AUL-18-15	1649337	242.0	243.0	1.0		15	3		
AUL-18-15	1649338	243.0	244.0	1.0		10	2		
AUL-18-15	1649339	244.0	244.7	0.7		15	3		
AUL-18-15	1649340				blank				
AUL-18-15	1649341	244.7	245.5	0.8		90	3		Fine Steel Blue metallic mineral not a
AUL-18-15	1649342	245.5	246.5	1.0		90	3	0.05	Fine Steel Blue metallic mineral not a
AUL-18-15	1649343	246.5	247.5	1.0		75	5		

Samples

AUL-18-15	1649344				217		
AUL-18-15	1649345	247.5	248.5	1.0		20	3
AUL-18-15	1649346	248.5	249.5	1.0		5	3
AUL-18-15	1649347	249.5	250.5	1.0		25	3
AUL-18-15	1649348	250.5	251.5	1.0		10	3
AUL-18-15	1649349	251.5	252.5	1.0		20	3
AUL-18-15	1649350	252.5	253.6	1.1		0	1
AUL-18-15	1649351	253.6	254.5	0.9		0	1
AUL-18-15	1649352	254.5	255.5	1.0		0	1
AUL-18-15	1649353	255.5	256.5	1.0		0	1
AUL-18-15	1649354			blank			
AUL-18-15	1649355	256.5	257.5	1.0		0	1
AUL-18-15	1649356	257.5	258.5	1.0		0	1
AUL-18-15	1649357	258.5	259.5	1.0		0	1
AUL-18-15	1649358	259.5	260.5	1.0		0	1

Whole rock

Header

DDH ID	AUL-18-16					
	Claim #	East	North	Az	Dip	EOH (m) (Nad 83)
Location	3019086	592303	5483356	185	-63	383
Purpose	Test Mikwam Zone					
Start date	Sep 1 2018					
End date	Sep 5 2018					
Drill Contractor	Norex Drilling					
Logged By	T.Keast					
Comments	Casing left in hole					

Description

BHID	From	To	Litho	Comment
AUL-18-16	0	42	CAS	Casing through overburden
AUL-18-16	42	57.0	RUBBLE	Oxidized rubbled rock. Rock is broken and rubbled with pervasive limonitic rusting. Casing extended through this interval
AUL-18-16	57	80.6	ARGblk	Argillite Black - Dark black fine grained well banded, soft graphitic greasy feel, sooty. Fine bands and laminations. Broken blocky throughout Casing extended through this unit Readily scratched Graphitic material non conductive
AUL-18-16	80.6	88.5	FAULT	Fault Zone - disrupted/brecciated interval with complete destruction and brecciation of original lithology Angular fragments, boudinaged qtz carb veins and stringers, healed fault. 1% py cubes up to 8mm. 85.0-85.6 2% py in laminations 85.6-88.5 Discrete white cherty bands, brecciated.
AUL-18-16	88.5	92.6	MD	Mafic Dike? - Dark green homogeneous unit with light green chlorite/epidote filled fractures. Local dark back clasts/xenoliths up to 1 cm. Mod foliation. non magnetic
AUL-18-16	92.6	156.2	IFchl	Iron formation Chloritic green groundmass- Light green chloritic unit with distinct banding and bedding of slightly lighter and darker material. Similar to Argillite Grey except this contains more chlorite. Dark black magnetite beds up to several cm and down to 1mm laminations. Distinct light buff cherty looking beds interbedded with the magnetite beds.

Description

Sections with Magnetite bands are widely spaced throughout the unit, not uniform throughout.

Black IF beds are highly magnetic, non conductive.

H >7

AUL-18-16 156.2 211.9 CONG
Conglomerate - Light grey in color, medium grained matrix with distinct round cobbles/clasts up to 10 cm .
Moderate foliation with cobbles flattened along foliation.
Clasts include mix volcanic and intrusive rock types, and rare dark black (argillite) clasts.
Granular texture to matrix 10-15% 1mm dark grey qtz eyes. 1% fine py, rare bleb of po.
156.3 -163.5 clasts are all same light grey green composition and have angular ragged appearance
Gradual change to distinct conglomerate.
Hardness is around 7 hard to scratch
Sharp abrupt upper contact.
202 - 211.9 Increase in strain as clasts are flattened.

AUL-18-16 211.9 219.5 ARGgry
Argillite Grey - Dark grey fine grained strongly foliated. (not black argillite). Local intervals are black
but overall more lighter beds and bands.
213-214 1-3% py in mm laminations in dark bands
215-216 - Light buff cherty bands/beds
218.0-219.5 Dark black argillite interbed strong foliation/shearing

H < 7

AUL-18-16 219.5 255.8 IFchl
Iron Formation green chloritic matrix - Dark green groundmass weakly foliated
Black magnetite bands/beds/laminations widely spaced.
221-223.5 Light buff cherty bands/beds.
223.5-226.0 - Quartz Vein Mottled grey white vein with 3-5% py+po. Vein is brecciated with wall rock fragments.
250.2 -255.8 Dark green massive weakly foliated band bed.

Description

H<7

AUL-18-16	255.8	262.5	MINZON	Mineralized Zone - 90% white Qtz vein with strong foliated wall rock fragments. 5-7% py in clots up to 1 cm and weak stringers. Tr Arsenopyrite.
AUL-18-16	262.5	265	FAULT	Fault - Dark black argillite soft sooty graphitic, strong foliation and fault gouge with fault breccia clasts 10 cm of soft friable fault gouge.
AUL-18-16	265	281.5	ARGblk	Argillite Black - Dark black fine banded/laminated moderate foliation. 305% fine py in discrete bands and patches.
AUL-18-16	281.5	287	ARGgry	Argillite Grey - Light grey banded/bedded sequence.
AUL-18-16	287	295.9	ARGblk	Argillite Black - Dark black fine banded/laminated moderate foliation. 5-10% py in rounded clots and weakly formed laminations.
AUL-18-16	295.9	325.5	ARGgry	Argillite Grey - Light grey banded/bedded sequence. 313.0-314.5 Broken blocky core, fault gouge. 316.0-317.0 Broken blocky core, fault gouge. 319.0 - 320.0 Fault gouge. H 7 just able to scratch.
AUL-18-16	325.5	332.2	MINZON	Mineralized Zone - White quartz veins mottled with 10-15% py in clots and disseminations. Rare grains of arsenopyrite.
AUL-18-16	332.2	358.5	IFchl	Iron Formation cgreen chloritic- Green chloritic matrix with well defined beds and bands/laminations

Description

of magnetite non conductive. IF bands widely spaced, not continuous iron formation.

H>7

AUL-18-16	358.5	362.5	MINZON	Mineralized Zone - 50% white qtz veins with xenoliths of surrounding wallrock IF. 10-15% py tr Arseno
AUL-18-16	362.5	365.6	ARGgry	Argillite Grey - Light grey banded interval with 1cm to 1mm bands/laminations. H>7
AUL-18-16	365.6	368	MINZON	Mineralized Zone - 20% white Quartz veins in qtz sericite rich matrix. 3-5% py tr arseno.
AUL-18-16	368	372	CONG	Conglomerate - Light grey with distinct rounded cobbles up to 7 cm rounded. Granular qtz rich matrix.
AUL-18-16	372	380.5	ARGgry	Argillite Grey - Well defined light grey banded/bedded sequence.
AUL-18-16	380.5	383	CONG	Conglomerate - Light grey with distinct rounded cobbles up to 7 cm rounded. Granular qtz rich matrix.

Mineralization

BHID	From	To	Qtz Veins %	Py %	Po %	Arseno %	Other	Comments	Conductors (tested with ohmeter)
AUL-18-16	80.6	88.5	10	2				Fault	
AUL-18-16	223.5	226.0	75	3	1				

Structure

BHID	Depth	Deg to CA	Comment	Comment
AUL-18-16	73.0	45	Foliation	
AUL-18-16	78.0	20	Foliation	
AUL-18-16	87.0	5	Foliation	
AUL-18-16	96.0	20	Foliation	
AUL-18-16	102.0	10	Foliation	
AUL-18-16	105.0	5	folding	
AUL-18-16	113.0	10	foliation	Bedding/banding
AUL-18-16	117.5	15	Foliation	Bedding/banding
AUL-18-16	127.0	15	Foliation	Bedding/banding
AUL-18-16	134.0	20	Foliation	Bedding/banding
AUL-18-16	137.0	15	foliation	Bedding/banding
AUL-18-16	142.5	35	foliation	Bedding/banding
AUL-18-16	149.0	40	foliation	Bedding/banding
AUL-18-16	152.6	25	foliation	Bedding/banding
AUL-18-16	155.0	30	foliation	
AUL-18-16	156.0	30	foliation	
AUL-18-16	159.0	35	foliation	
AUL-18-16	163.0	20	foliation	
AUL-18-16	167.0	25	foliation	
AUL-18-16	172.0	20	foliation	
AUL-18-16	180.0	35	foliation	
AUL-18-16	185.0	50	foliation	
AUL-18-16	193.0	35	foliation	
AUL-18-16	199.0	40	foliation	
AUL-18-16	203.0	30	foliation	
AUL-18-16	206.0	35	foliation	
AUL-18-16	212.0	20	foliation	
AUL-18-16	219.0	20	foliation	
AUL-18-16	223.3	20	foliation	
AUL-18-16	228	10	foliation	
AUL-18-16	231	20	foliation	
AUL-18-16	244	20	foliation	
AUL-18-16	250	10	foliation	
AUL-18-16	259.5	50	foliation	
AUL-18-16	264	30	foliation	
AUL-18-16	265	35	foliation	
AUL-18-16	280	20	foliation	
AUL-18-16	292	30	foliation	
AUL-18-16	300	30	foliation	
AUL-18-16	312	40	foliation	
AUL-18-16	325	25	foliation	
AUL-18-16	340	25	foliation	Bedding/banding
AUL-18-16	349	25	foliation	Bedding/banding
AUL-18-16	350	30	foliation	
AUL-18-16	382	30	foliation	

MagSuscept

BHID	Depth	MS	<i>Terraplus KT-5 Magnetic Susceptibility Meter</i>
AUL-18-16	50.0	0.17	
AUL-18-16	59.0	0.01	
AUL-18-16	66.0	0.10	
AUL-18-16	70.0	0.12	
AUL-18-16	74.0	0.16	
AUL-18-16	80.0	0.18	
AUL-18-16	82.0	0.06	
AUL-18-16	84.0	0.07	
AUL-18-16	88.0	0.07	
AUL-18-16	92.0	0.71	
AUL-18-16	95.5	0.87	
AUL-18-16	100.0	0.47	
AUL-18-16	102.0	0.45	
AUL-18-16	103.0	####	
AUL-18-16	105.0	####	
AUL-18-16	106.0	2.40	
AUL-18-16	108.0	0.51	
AUL-18-16	111.0	####	
AUL-18-16	113.0	####	
AUL-18-16	114.0	1.05	
AUL-18-16	117.5	####	
AUL-18-16	119.0	####	
AUL-18-16	123.0	####	
AUL-18-16	126.0	0.61	
AUL-18-16	129.5	####	
AUL-18-16	131.5	0.38	
AUL-18-16	135.0	0.26	
AUL-18-16	136.0	0.59	
AUL-18-16	140.0	1.59	
AUL-18-16	142.5	0.46	
AUL-18-16	146.5	####	
AUL-18-16	148.0	1.12	
AUL-18-16	149.0	####	
AUL-18-16	152.0	####	
AUL-18-16	153.5	1.50	
AUL-18-16	155.0	2.19	
AUL-18-16	156.0	0.98	
AUL-18-16	157.0	0.16	
AUL-18-16	158.0	0.21	
AUL-18-16	161.0	0.46	
AUL-18-16	164.0	0.19	
AUL-18-16	166.0	0.30	
AUL-18-16	168.0	0.18	
AUL-18-16	171.0	0.73	
AUL-18-16	175.0	0.27	
AUL-18-16	180.5	0.30	

MagSuscept

AUL-18-16	185.0	0.20
AUL-18-16	189.0	0.22
AUL-18-16	193.0	0.18
AUL-18-16	201.0	0.53
AUL-18-16	206	0.21
AUL-18-16	211	0.17
AUL-18-16	216	0.44
AUL-18-16	222	0.46
AUL-18-16	227.5	0.43
AUL-18-16	2299	0.18
AUL-18-16	234	9.3
AUL-18-16	235.5	147
AUL-18-16	239	25.5
AUL-18-16	244.5	0.41
AUL-18-16	249	0.88
AUL-18-16	250	357
AUL-18-16	253	0.56
AUL-18-16	255	0.83
AUL-18-16	256	0.57
AUL-18-16	257	0.51
AUL-18-16	259	0.63
AUL-18-16	262	0.47
AUL-18-16	270	0.04
AUL-18-16	273	0.01
AUL-18-16	278	0.06
AUL-18-16	282	2.52
AUL-18-16	285.5	0.39
AUL-18-16	290	0.08
AUL-18-16	294	0.16
AUL-18-16	298.5	0.34
AUL-18-16	304	0.46
AUL-18-16	309	0.04
AUL-18-16	315	0.07
AUL-18-16	323	0.03
AUL-18-16	324.5	0
AUL-18-16	326	0.3
AUL-18-16	329	0.7
AUL-18-16	330	3.8
AUL-18-16	332	580
AUL-18-16	334	405
AUL-18-16	336	518
AUL-18-16	338	548
AUL-18-16	340.5	8.75
AUL-18-16	344	11
AUL-18-16	349	504
AUL-18-16	355	3.09
AUL-18-16	359	387

MagSuscept

AUL-18-16	360.5	3.55
AUL-18-16	363	0.94
AUL-18-16	367	0.22
AUL-18-16	371	0.15
AUL-18-16	376	0.26
AUL-18-16	382	0.23

RQD

BHID	From	To	Recovery	RQD	Comments
AUL-18-16	42	44	1	0.1	
AUL-18-16	44.0	48.0	2.8	0.2	
AUL-18-16	48.0	50.0	1.3	0.3	
AUL-18-16	50.0	53.0	1.8	0.8	
AUL-18-16	53.0	57.0	1.9	0.5	
AUL-18-16	57.0	62.0	2.1	0.4	
AUL-18-16	62.0	65.0	0.9	0.0	
AUL-18-16	65.0	68.0	1.2	0.0	
AUL-18-16	68.0	71.0	2.4	1.1	
AUL-18-16	71.0	74.0	2.3	0.4	
AUL-18-16	74.0	77.0	1.8	0.5	
AUL-18-16	77.0	80.0	2.7	1.2	
AUL-18-16	80.0	83.0	2.9	1.4	
AUL-18-16	83.0	86.0	2.9	1.9	
AUL-18-16	86.0	89.0	2.1	0.9	
AUL-18-16	89.0	92.0	3.0	1.5	
AUL-18-16	92.0	95.0	2.9	2.2	
AUL-18-16	95.0	98.0	3.0	1.6	
AUL-18-16	98.0	101.0	3.0	1.6	
AUL-18-16	101.0	104.0	3.0	2.3	
AUL-18-16	104.0	107.0	2.8	0.8	
AUL-18-16	107.0	110.0	2.9	1.4	
AUL-18-16	110.0	113.0	3.0	2.4	
AUL-18-16	113.0	116.0	3.0	2.4	
AUL-18-16	116.0	119.0	3.0	2.4	
AUL-18-16	119.0	122.0	3.0	2.6	
AUL-18-16	122.0	125.0	2.9	1.8	
AUL-18-16	125.0	128.0	2.8	1.2	
AUL-18-16	128.0	131.0	3.0	1.7	
AUL-18-16	131.0	134.0	3.0	2.2	
AUL-18-16	134.0	137.0	3.0	2.8	
AUL-18-16	137.0	140.0	3.0	1.9	
AUL-18-16	140.0	143.0	3.0	1.1	
AUL-18-16	143.0	146.0	3.0	1.0	
AUL-18-16	146.0	149.0	3.0	2.0	
AUL-18-16	149.0	152.0	3.0	1.5	
AUL-18-16	152.0	155.0	3.0	2.5	
AUL-18-16	155.0	158.0	3.0	2.6	
AUL-18-16	158.0	161.0	3.0	2.8	
AUL-18-16	161.0	164.0	3.0	2.6	
AUL-18-16	164.0	167.0	3.0	2.7	
AUL-18-16	167.0	170.0	3.0	2.4	
AUL-18-16	170.0	173.0	2.9	2.6	
AUL-18-16	173.0	176.0	3.0	1.6	
AUL-18-16	176.0	179.0	2.9	2.4	
AUL-18-16	179.0	182.0	3.0	2.5	

RQD

AUL-18-16	182.0	185.0	3.0	2.7
AUL-18-16	185.0	188.0	3.0	2.5
AUL-18-16	188.0	191.0	3.0	2.8
AUL-18-16	191.0	194.0	3.0	2.5
AUL-18-16	194.0	197.0	2.7	2.2
AUL-18-16	197.0	200.0	3.0	2.8
AUL-18-16	200.0	203.0	3.0	2.7
AUL-18-16	203.0	206.0	3.0	2.8
AUL-18-16	206.0	209.0	3.0	2.7
AUL-18-16	209.0	212.0	3.0	2.9
AUL-18-16	212.0	215.0	3.0	2.7
AUL-18-16	215.0	218.0	3.0	2.5
AUL-18-16	218.0	221.0	3.0	2.0
AUL-18-16	221.0	224.0	3.0	2.8
AUL-18-16	224.0	227.0	3.0	2.4
AUL-18-16	227.0	230.0	3.0	2.4
AUL-18-16	230.0	233.0	3.0	2.4
AUL-18-16	233.0	236.0	3.0	2.6
AUL-18-16	236.0	239.0	3.0	2.8
AUL-18-16	239.0	242.0	3.0	2.8
AUL-18-16	242.0	245.0	3.0	2.2
AUL-18-16	245.0	248.0	3.0	1.9
AUL-18-16	248.0	251.0	3.0	2.3
AUL-18-16	251.0	254.0	3.0	2.8
AUL-18-16	254.0	257.0	3.0	2.6
AUL-18-16	257.0	260.0	3.0	2.6
AUL-18-16	260.0	263.0	3.0	2.0
AUL-18-16	263.0	266.0	3.0	1.8
AUL-18-16	266.0	269.0	3.0	2.8
AUL-18-16	269.0	272.0	3.0	2.6
AUL-18-16	272.0	275.0	3.0	2.5
AUL-18-16	275.0	278.0	3.0	2.8
AUL-18-16	278.0	281.0	3.0	2.6
AUL-18-16	281.0	284.0	3.0	2.8
AUL-18-16	284.0	287.0	3.0	2.7
AUL-18-16	287.0	290.0	3.0	2.7
AUL-18-16	290.0	293.0	3.0	2.1
AUL-18-16	293.0	296.0	3.0	2.8
AUL-18-16	296.0	299.0	3.0	2.8
AUL-18-16	299.0	302.0	3.0	2.4
AUL-18-16	302.0	305.0	3.0	2.2
AUL-18-16	305.0	308.0	3.0	1.9
AUL-18-16	308.0	311.0	3.0	2.7
AUL-18-16	311.0	314.0	3.0	2.2
AUL-18-16	314.0	317.0	3.0	1.4
AUL-18-16	317.0	320.0	3.0	0.8
AUL-18-16	320.0	323.0	2.9	2.3

RQD

AUL-18-16	323.0	326.0	3.0	2.7
AUL-18-16	326.0	329.0	3.0	2.8
AUL-18-16	329	332	3	2.9
AUL-18-16	332	335	3	2.9
AUL-18-16	335	338	3	2.9
AUL-18-16	338	341	3	2.9
AUL-18-16	341	344	3	2.9
AUL-18-16	344	347	3	2.9
AUL-18-16	347	350	3	2.7
AUL-18-16	350	353	3	3
AUL-18-16	353	356	3	3
AUL-18-16	356	359	3	2.9
AUL-18-16	359	362	3	2.9
AUL-18-16	362	365	3	3
AUL-18-16	365	368	3	3
AUL-18-16	368	371	3	3
AUL-18-16	371	374	3	2.9

Reflex

BHID	Depth	Az	Az Correct	Dip	Mag Field	Use Az	Use Dip	Comments
AUL-18-16	0.0	185.0		-63.0		Y	Y	Spotted 180
AUL-18-16	101.0	204.2	191.2	-62.6	5757.0	N	Y	Checked Front sites
AUL-18-16	152.0	196.4	183.4	-61.2	5669.0	Y	Y	
AUL-18-16	203.0	196.4	183.4	-61.0	5700.0	y	y	
AUL-18-16	254.0	201.7	188.7	-58.7	5691.0	y	y	
AUL-18-16	305.0	198.3	185.3	-58.7	5530.0	y	y	
AUL-18-16	356.0	203.1	190.1	-58.1	4673.0	y	y	

Drillers moved setup approx 8 metres west

Did not notify geologist so that front sites could be reset

Drill checked , not oriented at 180, @185

Samples

AUL-18-16	1636377	248.0	249.0	1.0				
AUL-18-16	1636378	249.0	250.0	1.0				
AUL-18-16	1636379	250.0	251.0	1.0				
AUL-18-16	1636380	251.0	252.0	1.0				
AUL-18-16	1636381				216			
AUL-18-16	1636382	252.0	253.0	1.0				
AUL-18-16	1636383	253.0	254.0	1.0				
AUL-18-16	1649389	254.0	255.0	1.0				
AUL-18-16	1649390	255.0	255.8	0.8				
AUL-18-16	1649391	255.8	257.0	1.2	10	10		
AUL-18-16	1649392	257.0	258.0	1.0	75	15		
AUL-18-16	1649393	258.0	259.0	1.0	80	15		
AUL-18-16	1649394				216			
AUL-18-16	1649395	259.0	260.0	1.0	75	5		
AUL-18-16	1649396	260.0	261.0	1.0	100	5		
AUL-18-16	1649397	261.0	262.0	1.0	90	10	0.5	
AUL-18-16	1649398			blank				
AUL-18-16	1649399	262.0	262.5	0.5	50	10	0.5	
AUL-18-16	1649400	262.5	264.0	1.5				
AUL-18-16	1649401	264.0	265.0	1.0				
AUL-18-16	1649402	265.0	266.0	1.0		5		
AUL-18-16	1649403	266.0	267.0	1.0		10		
AUL-18-16	1649404	267.0	268.0	1.0		15		
AUL-18-16	1649405	268.0	269.0	1.0		10		
AUL-18-16	1649406	269.0	270.0	1.0	5	2		
AUL-18-16	1649505	270.0	271.0	1.0	5	2		
AUL-18-16	1649506	271.0	272.0	1.0		2		
AUL-18-16	1649507	272.0	273.0	1.0		1		
AUL-18-16	1649508	273.0	274.0	1.0				
AUL-18-16	1647997	274.0	275.0	1.0				
AUL-18-16	1647998	275.0	276.0	1.0				
AUL-18-16	1647999	276.0	277.0	1.0				
AUL-18-16	1648000	277.0	278.0	1.0				
AUL-18-16	1648001	278.0	279.0	1.0				
AUL-18-16	1648002			Blank				
AUL-18-16	1648003	279.0	280.0	1.0				
AUL-18-16	1648004	280.0	281.0	1.0				
AUL-18-16	1648005	281.0	282.0	1.0				
AUL-18-16	1648006	282.0	283.0	1.0				
AUL-18-16	1648007	283.0	284.0	1.0				
AUL-18-16	1648008	284.0	285.0	1.0				
AUL-18-16	1648009				216			
AUL-18-16	1648010	285.0	286.0	1.0				

Samples

AUL-18-16	1648011	286.0	287.0	1.0	
AUL-18-16	1648012	287.0	288.0	1.0	
AUL-18-16	1648013	288.0	289.0	1.0	
AUL-18-16	1648014	289.0	290.0	1.0	
AUL-18-16	1648015	290.0	291.0	1.0	
AUL-18-16	1648016	291.0	292.0	1.0	
AUL-18-16	1648017				217
AUL-18-16	1648018	292.0	293.0	1.0	
AUL-18-16	1648019	293.0	294.0	1.0	
AUL-18-16	1648020	294.0	295.0	1.0	
AUL-18-16	1648021	295.0	296.0	1.0	
AUL-18-16	1648022	296.0	297.0	1.0	
AUL-18-16	1648023	297.0	298.0	1.0	
AUL-18-16	1648024	298.0	299.0	1.0	
AUL-18-16	1648025	299.0	300.0	1.0	
AUL-18-16	1648026				216
AUL-18-16	1648027	300.0	301.0	1.0	
AUL-18-16	1648028	301.0	302.0	1.0	
AUL-18-16	1648029	302.0	303.0	1.0	
AUL-18-16	1648030				Blank
AUL-18-16	1648031	303.0	304.0	1.0	
AUL-18-16	1648032	304.0	305.0	1.0	
AUL-18-16	1648033	305.0	306.0	1.0	
AUL-18-16	1648034	306.0	307.0	1.0	
AUL-18-16	1648035				217
AUL-18-16	1648036	307.0	308.0	1.0	
AUL-18-16	1648037	308.0	309.0	1.0	
AUL-18-16	1648038	309.0	310.0	1.0	
AUL-18-16	1648039	310.0	311.0	1.0	
AUL-18-16	1648040	311.0	312.0	1.0	
AUL-18-16	1648041	312.0	313.0	1.0	
AUL-18-16	1648042	313.0	314.0	1.0	
AUL-18-16	1648043	314.0	315.0	1.0	
AUL-18-16	1648044	315.0	316.0	1.0	
AUL-18-16	1648045	316.0	317.0	1.0	
AUL-18-16	1648046				217
AUL-18-16	1648047	317.0	318.0	1.0	
AUL-18-16	1648048	318.0	319.0	1.0	
AUL-18-16	1648049	319.0	320.0	1.0	
AUL-18-16	1648050	320.0	321.0	1.0	
AUL-18-16	1648051	321.0	322.0	1.0	
AUL-18-16	1648052	322.0	323.0	1.0	
AUL-18-16	1649407	323.0	324.0	1.0	

Samples

AUL-18-16	1649408	324.0	325.5	1.5				
AUL-18-16	1649409	325.5	326.5	1.0		100	10	0.5
AUL-18-16	1649410	326.5	327.5	1.0		100	20	3
AUL-18-16	1649411				216			
AUL-18-16	1649412	327.5	328.5	1.0		75	15	10
AUL-18-16	1649413	328.5	329.5	1.0		80	10	2
AUL-18-16	1649414				blank			
AUL-18-16	1649415	329.5	330.5	1.0		50	5	2
AUL-18-16	1649416	330.5	331.5	1.0		50	20	10
AUL-18-16	1649417	331.5	332.2	0.7		10	10	5
AUL-18-16	1649418	332.2	333.0	0.8			2	
AUL-18-16	1649419	333.0	334.0	1.0		5	5	
AUL-18-16	1649420	334.0	335.0	1.0		10	5	3
AUL-18-16	1649421	335.0	336.0	1.0		10	10	2
AUL-18-16	1649422	336.0	337.0	1.0				
AUL-18-16	1636384	337.0	338.0	1.0				
AUL-18-16	1636385	338.0	339.0	1.0				
AUL-18-16	1636386	339.0	340.0	1.0				
AUL-18-16	1636387	340.0	341.0	1.0				
AUL-18-16	1636388	341.0	342.0	1.0				
AUL-18-16	1636389	342.0	343.0	1.0				
AUL-18-16	1636390	343.0	344.0	1.0				
AUL-18-16	1636391	344.0	345.0	1.0				
AUL-18-16	1636392	345.0	346.0	1.0				
AUL-18-16	1636393	346.0	347.0	1.0				
AUL-18-16	1636394				216			
AUL-18-16	1636395	347.0	348.0	1.0				
AUL-18-16	1636396	348.0	349.0	1.0				
AUL-18-16	1636397	349.0	350.0	1.0				
AUL-18-16	1636398	350.0	351.0	1.0				
AUL-18-16	1636399	351.0	352.0	1.0				
AUL-18-16	1636400				Blank			
AUL-18-16	1636401	352.0	353.0	1.0				
AUL-18-16	1636402	353.0	354.0	1.0				
AUL-18-16	1636403	354.0	355.0	1.0				
AUL-18-16	1636404	355.0	356.0	1.0				
AUL-18-16	1636405				299			
AUL-18-16	1636406	356.0	357.0	1.0				
AUL-18-16	1649423	357.0	358.0	1.0				
AUL-18-16	1649424	358.0	359.0	1.0		75	10	
AUL-18-16	1649425	359.0	360.0	1.0		90	20	3
AUL-18-16	1649426	360.0	361.0	1.0		10	3	
AUL-18-16	1649427	361.0	362.0	1.0		50	5	

Samples

AUL-18-16	1649428	362.0	363.0	1.0	10		
AUL-18-16	1649429	363.0	364.0	1.0			
AUL-18-16	1649430	364.0	365.0	1.0			
AUL-18-16	1649431				217		
AUL-18-16	1649432	365.0	366.0	1.0	20	10	2
AUL-18-16	1649433	366.0	367.0	1.0	35	15	
AUL-18-16	1649434	367.0	368.0	1.0	10	2	
AUL-18-16	1649435	368.0	369.0	1.0			
AUL-18-16	1636407	369.0	370.0	1.0			
AUL-18-16	1636408	370.0	371.0	1.0			
AUL-18-16	1636409	371.0	372.0	1.0			
AUL-18-16	1636410	372.0	373.0	1.0			
AUL-18-16	1636411	373.0	374.0	1.0			
AUL-18-16	1636412	374.0	375.0	1.0			
AUL-18-16	1636413	375.0	376.0	1.0			
AUL-18-16	1636414	376.0	377.0	1.0			
AUL-18-16	1636415						Blank
AUL-18-16	1636416	377.0	378.0	1.0			
AUL-18-16	1636417	378.0	379.0	1.0			
AUL-18-16	1636418	379.0	380.0	1.0			
AUL-18-16	1636419				216		
AUL-18-16	1636420	380.0	381.0	1.0			
AUL-18-16	1636421	381.0	382.0	1.0			
AUL-18-16	1636422	382.0	383.0	1.0			

Header

DDH ID	AUL-18-17					
	Claim #	East	North	Az	Dip	EOH (m) (Nad 83)
Location	3019086	592303	5483356	180	-70	452
Purpose	Test Mikwam Zone					
Start date	Sep 5 2018					
End date	Sep 10 2018					
Drill Contractor	Norex Drilling					
Logged By	T.Keast					
Comments	Casing left in hole					

Description

BHID	From	To	Litho	Comment
AUL-18-17	0	47	Cas	Casing through overburden
AUL-18-17	42	57.0	Rubble	Oxidized rubbled rock. Rock is broken and rubbled with pervasive limonitic rusting. Mixture of lithologies Argillite black and Argillite grey and some light chert bands.
AUL-18-17	57	78	ARGblk	Argillite Black - Dark black fine grained well banded, soft graphitic greasy feel, sooty. Fine bands and laminations. Broken blocky throughout Readily scratched Graphitic material non conductive 61.2-64.0 broken blocky core fault gouge 70.0-74.5 broken blocky core-fault gouge
AUL-18-17	78.0	87.0	FAULT	Fault Zone - disrupted/brecciated interval with complete destruction and brecciation of original litholgy Strong foliation, carbonate stringers Angular fragments, boudinaged qtz carb veins and stringers, healed fault. Fragments are dominantly Argllite Grey with local intervals of Argillite Black.
AUL-18-17	87	93	FAULT	Fault Zone- Broken angular fault breccia, dominatly Argilite Black interval. Strong foliation Broken blocky core, 10% carb veins.
AUL-18-17	93	98	FAULT	Fault Zone- Broken angular fault breccia, dominatly Chloritic Iron formation looking unit Distinct dark black bands look like magneitiem non magnetic non conductive.
AUL-18-17	98	176.5	IFchlR	Iron Formation green chloritic- Distict green chloritic unit. 0-10 degree foliation to CA. Scattered light buff cherty bands support that this is IFchlorite unit.

Description

				<p>Sheared as carb veins are boudins. Only one distinct magnetite bands bed section however the chloritec matrix and MS of the unit outside of magnetite beds supports the IF. H<7 Argillite grey - Strongly foliated with light and dark alternating banding/bedding throughout.</p>
AUL-18-17	176.5	199.5	ARGgry	<p>Unit is still chloritic but no cherty bands, MS is lower. H<7</p>
AUL-18-17	199.5	202	CONGshc	<p>Conglomerate sheared - strong foliation with flattened clast not recognizeable. Strain decreases down unit until distinct clast outlines are clear. H<7</p>
AUL-18-17	201	232	CONG	<p>Conglomerate - Light grey in color, medium grained matrix with distinct round cobbles/clasts up to 10 cm . Moderate foliation with cobbles flattened along foliation. Clasts include mix volcanic and intrusive rock types, and rare dark black (argillite) clasts.</p>
AUL-18-17	232	246.5	ARGgry	<p>Argillite grey - Strongly foliated with light and dark alternating banding/bedding throughout. Unit is still chloritic but no cherty bands, MS is lower. H <7</p>
AUL-18-17	246.5	263.7	CONG	<p>Conglomerate - Light grey in color, medium grained gritty matrix with distinct round cobbles/clasts up to 10 cm . Moderate foliation with cobbles flattened along foliation. Clasts include mix volcanic and intrusive rock types, and rare dark black (argillite) clasts. H<7</p>
AUL-18-17	263.7	274.9	ARGgry	<p>Argillite grey - Strongly foliated with light and dark alternating banding/bedding throughout. Unit is still chloritic but no cherty bands, MS is lower. H <7</p>

Description

AUL-18-17 274.9 452 CONG
Conglomerate - Light grey in color, medium grained gritty matrix with distinct round cobbles/clasts up to 10 cm .
Moderate foliation with cobbles flattened along foliation.
Clasts include mix volcanic and intrusive rock types, and rare dark black (argillite) clasts.
H<7
Core angles remain 10 deg to CA through this entire interval.

Mineralization

BHID	From	To	Qtz Veins %	Py %	Po %	Arseno %	Other	Comments	Conductors (tested with ohmeter)
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Structure

BHID	Depth	Deg to CA	Comment	Comment
AUL-18-17	51.0	30	Foliation	
AUL-18-17	59.0	50	Foliation	Bedding/banding
AUL-18-17	77.5	20	Foliation	
AUL-18-17	87.0	30	Foliation	Bedding/banding
AUL-18-17	98.5	5	Foliation	Bedding/banding
AUL-18-17	110.0	5	folding	Bedding/banding
AUL-18-17	119.0	10	foliation	Bedding/banding
AUL-18-17	126.0	10	Foliation	Bedding/banding
AUL-18-17	133.0	5	Foliation	chert bed
AUL-18-17	139.0	5	Foliation	
AUL-18-17	153.0	10	foliation	
AUL-18-17	169.0	5	foliation	
AUL-18-17	175.0	10	foliation	Bedding/banding
AUL-18-17	187.0	40	foliation	Bedding/banding
AUL-18-17	193.5	40	foliation	Bedding/banding
AUL-18-17	199.0	20	foliation	
AUL-18-17	204.0	20	foliation	
AUL-18-17	210.0	20	foliation	clast
AUL-18-17	223.0	20	foliation	Bedding/banding
AUL-18-17	240.0	0	foliation	fold
AUL-18-17	252.0	25	foliation	clast alignment
AUL-18-17	275.0	40	foliation	Bedding/banding
AUL-18-17	280.0	25	foliation	clast alignment
AUL-18-17	282.0	10	foliation	clast alignment
AUL-18-17	286.0	5	foliation	clast alignment
AUL-18-17	292.0	5	foliation	clast alignment
AUL-18-17	295.0	10	foliation	clast alignment
AUL-18-17	299.0	10	foliation	clast alignment
AUL-18-17	209	10	foliation	clast alignment
AUL-18-17	318	10	foliation	clast alignment
AUL-18-17	324	5	foliation	
AUL-18-17	345	10	foliation	clast alignment
AUL-18-17	375	0	foliation	clast alignment
AUL-18-17	391	5	foliation	clast alignment
AUL-18-17	405	5	foliation	clast alignment
AUL-18-17	424	25	foliation	clast alignment
AUL-18-17	447	5	foliation	clast alignment

MagSuscept

BHID	Depth	MS	<i>Terraplug KT-5 Magnetic Susceptibility Meter</i>
AUL-18-17	51.0	0.41	
AUL-18-17	56.0	0.12	
AUL-18-17	60.0	0.23	
AUL-18-17	70.0	0.17	
AUL-18-17	78.0	0.28	
AUL-18-17	87.0	0.05	
AUL-18-17	95.0	0.23	
AUL-18-17	101.0	0.78	
AUL-18-17	107.5	0.83	
AUL-18-17	112.0	0.99	
AUL-18-17	118.0	0.34	
AUL-18-17	125.0	0.46	
AUL-18-17	131.0	####	
AUL-18-17	135.0	0.62	
AUL-18-17	142.0	1.05	
AUL-18-17	149.0	0.84	
AUL-18-17	156.0	1.18	
AUL-18-17	160.0	0.79	
AUL-18-17	166.0	0.96	
AUL-18-17	173.0	1.19	
AUL-18-17	176.0	0.24	
AUL-18-17	187.0	0.29	
AUL-18-17	193.0	0.64	
AUL-18-17	200.0	0.20	
AUL-18-17	208.0	0.28	
AUL-18-17	211.0	0.40	
AUL-18-17	223.0	0.47	
AUL-18-17	231.5	0.18	
AUL-18-17	236.0	0.20	
AUL-18-17	246.0	0.23	
AUL-18-17	253.0	0.39	
AUL-18-17	263.0	0.38	
AUL-18-17	270.0	0.20	
AUL-18-17	277.0	0.58	
AUL-18-17	280.0	0.50	
AUL-18-17	286.5	0.30	
AUL-18-17	295.0	0.55	
AUL-18-17	301.0	0.37	
AUL-18-17	307.0	0.61	
AUL-18-17	311.0	0.22	
AUL-18-17	319.0	0.52	
AUL-18-17	338.0	0.20	
AUL-18-17	348.0	0.41	
AUL-18-17	358.0	0.19	
AUL-18-17	378.0	0.35	
AUL-18-17	392.0	0.19	

MagSuscept

AUL-18-17	405.0	0.30
AUL-18-17	422.0	0.34
AUL-18-17	436.0	0.40
AUL-18-17	447.0	0.42

RQD

BHID	From	To	Recovery	RQD	Comments
AUL-18-17	47	50	2.5	0	
AUL-18-17	50.0	53.0	2.5	1.2	
AUL-18-17	53.0	56.0	2.5	0.7	
AUL-18-17	56.0	59.0	2.6	1.5	
AUL-18-17	59.0	62.0	2.7	1.4	
AUL-18-17	62.0	65.0	3.0	1.1	
AUL-18-17	65.0	68.0	3.0	1.5	
AUL-18-17	68.0	71.0	2.7	0.2	
AUL-18-17	71.0	74.0	2.5	0.5	
AUL-18-17	74.0	77.0	2.5	0.5	
AUL-18-17	77.0	80.0	2.3	2.0	
AUL-18-17	80.0	83.0	3.0	1.6	
AUL-18-17	83.0	86.0	3.0	2.8	
AUL-18-17	86.0	89.0	3.0	1.4	
AUL-18-17	89.0	92.0	3.0	0.6	
AUL-18-17	92.0	95.0	2.8	1.1	
AUL-18-17	95.0	98.0	3.0	1.7	
AUL-18-17	98.0	101.0	2.7	1.3	
AUL-18-17	101.0	104.0	3.0	1.5	
AUL-18-17	104.0	107.0	3.0	1.1	
AUL-18-17	107.0	110.0	2.7	1.5	
AUL-18-17	110.0	113.0	3.0	2.3	
AUL-18-17	113.0	116.0	3.0	1.3	
AUL-18-17	116.0	119.0	3.0	1.8	
AUL-18-17	119.0	122.0	3.0	1.8	
AUL-18-17	122.0	125.0	3.0	2.3	
AUL-18-17	125.0	128.0	3.0	2.6	
AUL-18-17	128.0	131.0	3.0	2.8	
AUL-18-17	131.0	134.0	3.0	2.2	
AUL-18-17	134.0	137.0	3.0	2.3	
AUL-18-17	137.0	140.0	3.0	1.2	
AUL-18-17	140.0	143.0	3.0	2.1	
AUL-18-17	143.0	146.0	2.9	2.8	
AUL-18-17	146.0	149.0	3.0	2.7	
AUL-18-17	149.0	152.0	3.0	2.2	
AUL-18-17	152.0	155.0	3.0	2.3	
AUL-18-17	155.0	158.0	3.0	2.6	
AUL-18-17	158.0	161.0	3.0	2.6	
AUL-18-17	161.0	164.0	3.0	2.8	
AUL-18-17	164.0	167.0	3.0	2.7	
AUL-18-17	167.0	170.0	3.0	2.2	
AUL-18-17	170.0	173.0	3.0	2.5	
AUL-18-17	173.0	176.0	3.0	2.8	
AUL-18-17	176.0	179.0	3.0	2.9	
AUL-18-17	179.0	182.0	3.0	2.4	
AUL-18-17	182.0	185.0	3.0	2.7	

RQD

AUL-18-17	185.0	188.0	3.0	2.6
AUL-18-17	188.0	191.0	3.0	3.0
AUL-18-17	191.0	194.0	3.0	2.5
AUL-18-17	194.0	197.0	3.0	2.8
AUL-18-17	197.0	200.0	2.9	2.5
AUL-18-17	200.0	203.0	3.0	2.1
AUL-18-17	203.0	206.0	3.0	2.2
AUL-18-17	206.0	209.0	3.0	2.6
AUL-18-17	209.0	212.0	3.0	2.1
AUL-18-17	212.0	215.0	3.0	3.0
AUL-18-17	215.0	218.0	3.0	2.8
AUL-18-17	218.0	221.0	3.0	2.3
AUL-18-17	221.0	224.0	3.0	2.9
AUL-18-17	224.0	227.0	3.0	2.6
AUL-18-17	227.0	230.0	3.0	3.0
AUL-18-17	230.0	233.0	3.0	2.8
AUL-18-17	233.0	236.0	3.0	3.0
AUL-18-17	236.0	239.0	3.0	2.8
AUL-18-17	239.0	242.0	3.0	2.8
AUL-18-17	242.0	245.0	3.0	3.0
AUL-18-17	245.0	248.0	3.0	3.0
AUL-18-17	248.0	251.0	3.0	2.6
AUL-18-17	251.0	254.0	3.0	2.6
AUL-18-17	254.0	257.0	3.0	2.9
AUL-18-17	257.0	260.0	3.0	2.8
AUL-18-17	260.0	263.0	3.0	2.8
AUL-18-17	263.0	266.0	3.0	3.0
AUL-18-17	266.0	269.0	3.0	3.0
AUL-18-17	269.0	272.0	3.0	2.1
AUL-18-17	272.0	275.0	3.0	2.1
AUL-18-17	275.0	278.0	3.0	1.7
AUL-18-17	278.0	281.0	3.0	2.8
AUL-18-17	281.0	284.0	3.0	2.9
AUL-18-17	284.0	287.0	3.0	2.9
AUL-18-17	287.0	290.0	3.0	3.0
AUL-18-17	290.0	293.0	3.0	3.0
AUL-18-17	293.0	296.0	3.0	3.0
AUL-18-17	296.0	299.0	3.0	3.0
AUL-18-17	299.0	302.0	3.0	3.0
AUL-18-17	302.0	305.0	3.0	2.9
AUL-18-17	305.0	308.0	3.0	2.9
AUL-18-17	308.0	311.0	3.0	2.9
AUL-18-17	311.0	314.0	3.0	2.2
AUL-18-17	314.0	317.0	3.0	3.0
AUL-18-17	317.0	320.0	3.0	2.9
AUL-18-17	320.0	323.0	3.0	2.9
AUL-18-17	323.0	326.0	3.0	2.9

RQD

AUL-18-17	326.0	329.0	3.0	3.0
AUL-18-17	329.0	332.0	2.9	2.8
AUL-18-17	332	335	2.9	2.7
AUL-18-17	335	338	3	2.7
AUL-18-17	338	341	2.9	2.5
AUL-18-17	341	344	2.8	2.4
AUL-18-17	344	347	3	3
AUL-18-17	347	350	3	2.5
AUL-18-17	350	353	3	2.9
AUL-18-17	353	356	3	2.4
AUL-18-17	356	359	2.9	2.5
AUL-18-17	359	362	3	2.9
AUL-18-17	362	365	3	2.7
AUL-18-17	365	368	3	2.4
AUL-18-17	368	371	3	2.8
AUL-18-17	371	374	3	2.7
AUL-18-17	374	377	3	2.8
AUL-18-17	377	380	3	2.6
AUL-18-17	380	383	3	2.8
AUL-18-17	383	386	2.9	2.9
AUL-18-17	386	389	2.9	2.9
AUL-18-17	389	392	2.9	2.9
AUL-18-17	392	395	3	2.8
AUL-18-17	395	398	3	3
AUL-18-17	398	401	3	3
AUL-18-17	401	404	3	2.9
AUL-18-17	404	407	3	1.6
AUL-18-17	407	410	3	3
AUL-18-17	410	413	3	3
AUL-18-17	413	416	3	3
AUL-18-17	416	419	3	2.9
AUL-18-17	419	422	3	2.9
AUL-18-17	422	425	3	2.9
AUL-18-17	425	428	3	2.1
AUL-18-17	428	431	3	2.8
AUL-18-17	431	434	3	2.8
AUL-18-17	434	437	3	2.3
AUL-18-17	437	440	3	1.5
AUL-18-17	440	443	2.9	2.8
AUL-18-17	443	446	3	3
AUL-18-17	446	449	3	3
AUL-18-17	449	452	3	2.8

EOH

Reflex

BHID	Depth	Az	Az Correct	Dip	Mag Field	Use Az	Use Dip	Comments
AUL-18-17	0.0	180.0						
AUL-18-17	65.0	193.8	180.8	-70.2	5808.0	Y	Y	
AUL-18-17	116.0	196.5	183.5	-70.2	5628.0	Y	Y	
AUL-18-17	167.0	181.4	168.4	-69.9	6068.0	N	Y	
AUL-18-17	218.0	195.9	182.9	-69.0	5757.0	Y	Y	
AUL-18-17	269.0	196.8	183.8	-68.8	5614.0	Y	Y	
AUL-18-17	320.0	193.4	180.4	-68.8	5620.0	Y	Y	
AUL-18-17	371.0	193.8	180.8	-68.9	5537.0	y	y	
AUL-18-17	452.0	198.0	185.0	-68.7	5530.0	y	y	

Samples

BHID	Sample	From	To	Width	Stand/blank	QV %	Py%	Po%	Arsen Sphalerite	Hem	VG	other	Weight	AuPPM
AUL-18-17	1636423	295.0	296.0										2.58	0.014
AUL-18-17	1636424	296.0	297.0										2.55	0.016
AUL-18-17	1636425	297.0	298.0										2.69	0.009
AUL-18-17	1636426	298.0	299.0										1.85	0.006
AUL-18-17	1636427	299.0	300.0										2.54	0.007
AUL-18-17	1636428				216								0.11	6.549
AUL-18-17	1636429	300.0	301.0										2.44	0.007
AUL-18-17	1636430	301.0	302.0										2.4	0.006
AUL-18-17	1636431	302.0	303.0										2.1	0.007
AUL-18-17	1636432	303.0	304.0										2.46	0.01
AUL-18-17	1636433	304.0	305.0										2.51	0.009
AUL-18-17	1636434	305.0	306.0										2.32	0.008
AUL-18-17	1636435	306.0	307.0										1.83	0.006
AUL-18-17	1636436	307.0	308.0										2.54	0.005
AUL-18-17	1636437	308.0	309.0										2.13	0.109
AUL-18-17	1636438	309.0	310.0										2.59	0.008
AUL-18-17	1636439	310.0	311.0										2.06	0.006
AUL-18-17	1636440	311.0	312.0										2.17	0.007
AUL-18-17	1636441	312.0	313.0										2.41	0.011
AUL-18-17	1636442	313.0	314.0										2.33	0.012
AUL-18-17	1636443	314.0	315.0										2.48	0.007
AUL-18-17	1636444	370.0	371.0										2.21	0.093
AUL-18-17	1636445	371.0	372.0										2.25	0.006
AUL-18-17	1636446	372.0	373.0										2.7	0.013
AUL-18-17	1636447	373.0	374.0										2.5	0.007
AUL-18-17	1636448	374.0	375.0										2.12	0.009
AUL-18-17	1636449				216								0.05	6.394
AUL-18-17	1636450	375.0	376.0										2.37	0.017
AUL-18-17	1636451	376.0	377.0										2.22	0.015
AUL-18-17	1636452	377.0	378.0										2.31	0.05
AUL-18-17	1636453	378.0	379.0										2.14	0.006
AUL-18-17	1636454	379.0	380.0										2.67	0.007
AUL-18-17	1636455	380.0	381.0										2.91	0.019
AUL-18-17	1636456				Blank								0.13	<0.005
AUL-18-17	1636457	381.0	382.0										2.01	0.007
AUL-18-17	1636458	382.0	383.0										2.82	<0.005
AUL-18-17	1636459	383.0	384.0										1.99	0.012
AUL-18-17	1636460	384.0	385.0										2.22	0.007
AUL-18-17	1636461	385.0	386.0										2.31	0.014
AUL-18-17	1636462	386.0	387.0										2.94	0.005
AUL-18-17	1636463	387.0	388.0										2.43	0.006
AUL-18-17	1636464	388.0	389.0										2.22	<0.005

Samples

AUL-18-17	1636465			299		0.07	>10.000
AUL-18-17	1636466	389.0	390.0			2.11	0.026
AUL-18-17	1636467	390.0	391.0			2.52	0.006
AUL-18-17	1636468	391.0	392.0			3.18	<0.005
AUL-18-17	1636469	392.0	393.0			2.2	0.008
AUL-18-17	1636470	393.0	394.0			1.72	0.008
AUL-18-17	1636471	394.0	395.0			2.1	0.008
AUL-18-17	1636472	395.0	396.0			2.34	0.008
AUL-18-17	1636473			Blank		0.17	<0.005
AUL-18-17	1636474	396.0	397.0			2.34	0.01
AUL-18-17	1636475	397.0	398.0			2.06	0.012
AUL-18-17	1636476	398.0	399.0			2.45	0.009
AUL-18-17	1636477	399.0	400.0			2.27	0.013
AUL-18-17	1636478	400.0	401.0			2.16	0.007
AUL-18-17	1636479	401.0	402.0			2.24	0.02
AUL-18-17	1636480	402.0	403.0			2.26	0.011
AUL-18-17	1636481	403.0	404.0			2.14	0.008
AUL-18-17	1636482			216		0.06	6.553
AUL-18-17	1636483	404.0	405.0			2.2	0.012
AUL-18-17	1636484	405.0	406.0			2.24	0.009
AUL-18-17	1636485	406.0	407.0			2.3	0.02
AUL-18-17	1636486	407.0	408.0			2.17	0.025
AUL-18-17	1636487	408.0	409.0			2.11	0.012
AUL-18-17	1636488	409.0	410.0			2.21	0.012
AUL-18-17	1636489	410.0	411.0			2.18	0.012
AUL-18-17	1636490	411.0	412.0			2.27	0.01
AUL-18-17	1636491	412.0	413.0			2.43	0.013
AUL-18-17	1636492	413.0	414.0			2.1	0.009
AUL-18-17	1636493	414.0	415.0			2	0.007
AUL-18-17	1636494			216		0.06	6.343
AUL-18-17	1636495	415.0	416.0			2.67	0.009
AUL-18-17	1636496	416.0	417.0			2.24	0.008
AUL-18-17	1636497	417.0	418.0			2.22	<0.005
AUL-18-17	1636498	418.0	419.0			2.57	<0.005
AUL-18-17	1636499	419.0	420.0			2.5	<0.005
AUL-18-17	1636500	420.0	421.0			2.32	<0.005
AUL-18-17	1647951	421.0	422.0			2.34	0.006
AUL-18-17	1647952	422.0	423.0			2.5	0.008
AUL-18-17	1647953			Blank		0.13	<0.005
AUL-18-17	1647954	423.0	424.0			1.83	0.007
AUL-18-17	1647955	424.0	425.0			2.55	0.009
AUL-18-17	1647956	425.0	426.0			2.58	0.005
AUL-18-17	1647957	426.0	427.0			2.01	<0.005

Samples

AUL-18-17	1647958	427.0	428.0		2.94	0.006
AUL-18-17	1647959	428.0	429.0		2.41	0.006
AUL-18-17	1647960	429.0	430.0		2	0.007
AUL-18-17	1647961	430.0	431.0		2.3	0.012
AUL-18-17	1647962	431.0	432.0		2.53	0.011
AUL-18-17	1647963			Blank	0.11	<0.005
AUL-18-17	1647964	432.0	433.0		1.94	<0.005
AUL-18-17	1647965	433.0	434.0		2.04	0.013
AUL-18-17	1647966	434.0	435.0		2.26	<0.005
AUL-18-17	1647967	435.0	436.0		2.04	0.006
AUL-18-17	1647968	436.0	437.0		1.41	0.009
AUL-18-17	1647969	437.0	438.0		1.46	0.013
AUL-18-17	1647970	438.0	439.0		1.54	0.01
AUL-18-17	1647971	439.0	440.0		2.45	0.012
AUL-18-17	1647972	440.0	441.0		2.3	0.008
AUL-18-17	1647973	441.0	442.0		2.33	0.007
AUL-18-17	1647974			216	0.06	6.431
AUL-18-17	1647975	442.0	443.0		2.24	0.014
AUL-18-17	1647976	443.0	444.0		2	0.012
AUL-18-17	1647977	444.0	445.0		1.82	0.008
AUL-18-17	1647978	445.0	446.0		2.58	0.019
AUL-18-17	1647979	446.0	447.0		2.18	0.011
AUL-18-17	1647980	447.0	448.0		2.58	0.007
AUL-18-17	1647981	448.0	449.0		2.19	0.007
AUL-18-17	1647982	449.0	450.0		2.43	0.006
AUL-18-17	1647983	450.0	451.0		2.29	0.01
AUL-18-17	1647984			216	0.07	0.32
AUL-18-17	1647985	451.0	452.0		2.25	0.015

Header

DDH ID	AUL-18-18					
	Claim #	East	North	Az	Dip	EOH (m) (Nad 83)
Location	3019086	592303	5483356	180	-56	401
Purpose	Test Mikwam Zone					
Start date	Sep 10 2018					
End date	Sep 14 2018					
Drill Contractor	Norex Drilling					
Logged By	T.Keast					
Comments	Casing left in hole					

Description

BHID	From	To	Litho	Comment
AUL-18-18	0	45	CAS	Casing through overburden
AUL-18-18	45	56.0	RUBBLE	Oxidized rubbled rock. Broken with pervasive limonitic alteration, as well as occasional hematite.
AUL-18-18	56	63	FAULT	Fault - Broken blocky fault gouge and fault breccia
AUL-18-18	63	72	ARGblk	Argillite Black- Strongly foliated dark black. Sooty fine grained.
AUL-18-18	72	84.5	FAULT	Fault - Fault breccia with angular wall rock and qtz veins/stringers. 10-15% carb stringers, tr py
AUL-18-18	84.5	129	IFchlor	Iron Formation Chloritic - Dark green chloritic matrix with widely spaced magnetite bands/beds.
AUL-18-18	129.0	179.5	CONG	Conglomerate- Distinc conglomerate clasts up to 7cm in granular matrix
AUL-18-18	179.5	191.1	FAULT	Fault broken blocky core Quartz-carbonate veining throughout
AUL-18-18	191.1	223.7	ARGgry	185.72-185.84 Vuggy massive sulphide - pyrite with 5% arsenopyrite in clusters Non magnetic 3-5% pyrite in blebs and streaks throughout, with intermittent bands and streaks of 2-10cm with 5-30% pyrite ARGgry- Argillite grey with moderate foliation and distinct alternating dark and light bands/beds.
AUL-18-18	223.7	235	ARGblk	Argillite Black
AUL-18-18	235	252	ARGgry	Argillite Grey
AUL-18-18	252	263	ARGblk	Argillite Black

Description

AUL-18-18	263	286	ARGshd	Argillite Black Sheared/brecciated - Dark black fine grained strongly foliated with discrete intervals of fault breccia Angular faulted xenoliths with qtz carb matrix.
AUL-18-18	286.8	289.5	FAULT	Fault - Angular faulted gouge with qtz vcarb veins.
AUL-18-18	289.5	301.3	MINZON	Mineralized Zone - 90 Quatrtrx veins with with 10-15% py. Vein and vein breccia.
AUL-18-18	301.3	312	BLCHfw	Bleached footwall. Original lithology not recognizeable. Light qtz sericite mode to weak foliateion (not shcist) Quartz veins 10-15% with 3-5% disseminated py.
AUL-18-18	312	325	BLCHfw	Bleached Footwall with distinct conglomerate clasts preseved. Light qtz sericite, weak foliation 1-5 cm clasts visible.
AUL-18-18	325	342	BLCHfw	Bleached footwall. Original lithology not recognizeable, but medium grain size suggests wacke. Light qtz sericite mode to weak foliateion (not shcist)
AUL-18-18	342	401	WACKE	Greywacke - Medium grained granular texture. Massive homogenous with rare poorly developed bands/bed. Rare conglomerate clast widely spaced. Rare py lamination.

Mineralization

BHID	From	To	Qtz Veins %	Py %	Po %	Arseno %	Other	Comments	Conductors (tested with ohmeter)
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Structure

BHID	Depth	Deg to CA	Comment	Comment
AUL-18-18	61.0	35 Fol		Fault breccia
AUL-18-18	75.0	5 fol		Fault breccia
AUL-18-18	88.5	30 Fol		banding/bedding
AUL-18-18	97.0	25 Fol		banding/bedding
AUL-18-18	109.0	25 Fol		banding/bedding
AUL-18-18	116.0	15 Fol		banding/bedding
AUL-18-18	121.0	10 Fol		banding/bedding
AUL-18-18	125.0	25 Fol		banding/bedding
AUL-18-18	130.0	30 Fol		banding/bedding
AUL-18-18	141.0	25 Fol		clasts
AUL-18-18	150.0	20 Fol		clasts
AUL-18-18	158.0	25 Fol		clasts
AUL-18-18	169.0	20 fol		clasts
AUL-18-18	177.0	25 Fol		banding/bedding
AUL-18-18	188.0	30 Fol		Fault breccia
AUL-18-18	196.0	40 Fol		banding/bedding
AUL-18-18	204.0	35 Fol		banding/bedding
AUL-18-18	212.0	35 Fol		banding/bedding
AUL-18-18	225.0	30 Fol		banding/bedding
AUL-18-18	237.0	35 Fol		banding/bedding
AUL-18-18	250.0	30 Fol		banding/bedding
AUL-18-18	262.5	30 Fol		Fault breccia
AUL-18-18	281.0	35 Fol		banding/bedding
AUL-18-18	328.0	35 Fol		
AUL-18-18	343.0	40 Fol		banding/bedding
AUL-18-18	362.0	20 Fol		banding/bedding
AUL-18-18	383.0	25 Fol		
AUL-18-18	400.0	40 Fol		

MagSuscept

BHID	Depth	MS	<i>Terraplug KT-5 Magnetic Susceptibility Meter</i>
AUL-18-18	63.0	0.09	
AUL-18-18	69.0	0.19	
AUL-18-18	77.0	0.04	
AUL-18-18	83.0	0.59	
AUL-18-18	86.0	6.50	
AUL-18-18	87.0	0.84	
AUL-18-18	94.0	0.53	
AUL-18-18	99.0	####	
AUL-18-18	101.0	0.31	
AUL-18-18	109.0	0.32	
AUL-18-18	116.0	0.78	
AUL-18-18	121.0	####	
AUL-18-18	124.0	####	
AUL-18-18	129.0	1.16	
AUL-18-18	131.0	0.15	
AUL-18-18	137.0	0.23	
AUL-18-18	145.0	0.20	
AUL-18-18	155.0	0.36	
AUL-18-18	162.0	0.24	
AUL-18-18	171.0	0.13	
AUL-18-18	178.0	0.53	
AUL-18-18	187.0	0.64	
AUL-18-18	193.0	0.11	
AUL-18-18	201.0	0.12	
AUL-18-18	208.0	0.67	
AUL-18-18	212.0	0.62	
AUL-18-18	218.0	0.10	
AUL-18-18	225.0	0.00	
AUL-18-18	235.0	0.01	
AUL-18-18	241.0	0.13	
AUL-18-18	251.0	0.00	
AUL-18-18	259.0	0.99	
AUL-18-18	265.0	2.81	
AUL-18-18	271.0	0.13	
AUL-18-18	276.0	0.00	
AUL-18-18	281.0	0.00	
AUL-18-18	288.0	0.06	
AUL-18-18	292.0	0.11	
AUL-18-18	297.0	0.45	
AUL-18-18	305.0	2.06	
AUL-18-18	311.0	0.18	
AUL-18-18	315.0	2.48	
AUL-18-18	316.0	0.70	
AUL-18-18	326.0	0.77	
AUL-18-18	335.0	0.96	
AUL-18-18	345.0	0.21	

MagSuscept

AUL-18-18	357.0	0.43
AUL-18-18	371.0	0.06
AUL-18-18	378.0	1.93
AUL-18-18	391.0	0.05
AUL-18-18	400	0.08

RQD

BHID	From	To	Recovery	RQD	Comments
AUL-18-18	47	50	2	0.23	
AUL-18-18	50.0	53.0	1.5	0.2	
AUL-18-18	53.0	56.0	2.5	0.2	
AUL-18-18	56.0	59.0	2.4	0.0	
AUL-18-18	59.0	62.0	2.4	0.4	
AUL-18-18	62.0	65.0	3.0	0.4	
AUL-18-18	65.0	68.0	3.0	1.5	
AUL-18-18	68.0	71.0	3.0	1.5	
AUL-18-18	71.0	74.0	2.6	0.3	
AUL-18-18	74.0	77.0	3.0	1.5	
AUL-18-18	77.0	80.0	3.0	1.5	
AUL-18-18	80.0	83.0	3.0	1.9	
AUL-18-18	83.0	86.0	3.0	1.7	
AUL-18-18	86.0	89.0	2.8	1.5	
AUL-18-18	89.0	92.0	2.9	2.2	
AUL-18-18	92.0	95.0	3.0	2.5	
AUL-18-18	95.0	98.0	3.0	2.1	
AUL-18-18	98.0	101.0	2.9	2.0	
AUL-18-18	101.0	104.0	3.0	1.4	
AUL-18-18	104.0	107.0	3.0	1.2	
AUL-18-18	107.0	110.0	3.0	1.2	
AUL-18-18	110.0	113.0	3.0	1.1	
AUL-18-18	113.0	116.0	3.0	1.1	
AUL-18-18	116.0	119.0	2.0	1.0	
AUL-18-18	119.0	122.0	2.8	2.1	
AUL-18-18	122.0	125.0	2.9	2.3	
AUL-18-18	125.0	128.0	3.0	2.2	
AUL-18-18	128.0	131.0	3.0	2.3	
AUL-18-18	131.0	134.0	3.0	2.8	
AUL-18-18	134.0	137.0	2.6	1.8	
AUL-18-18	137.0	140.0	3.0	2.7	
AUL-18-18	140.0	143.0	2.9	2.8	
AUL-18-18	143.0	146.0	3.0	2.8	
AUL-18-18	146.0	149.0	2.9	2.8	
AUL-18-18	149.0	152.0	2.9	2.4	
AUL-18-18	152.0	155.0	2.9	2.3	
AUL-18-18	155.0	158.0	2.9	2.4	
AUL-18-18	158.0	161.0	3.0	2.5	
AUL-18-18	161.0	164.0	3.0	2.4	
AUL-18-18	164.0	167.0	2.8	1.6	
AUL-18-18	167.0	170.0	3.0	2.4	
AUL-18-18	170.0	173.0	2.9	2.3	
AUL-18-18	173.0	176.0	3.0	1.3	
AUL-18-18	176.0	179.0	3.0	1.7	
AUL-18-18	179.0	182.0	2.9	1.2	
AUL-18-18	182.0	185.0	3.0	2.2	

RQD

AUL-18-18	185.0	188.0	2.9	2.1
AUL-18-18	188.0	191.0	3.0	0.9
AUL-18-18	191.0	194.0	3.0	2.3
AUL-18-18	194.0	197.0	3.0	2.5
AUL-18-18	197.0	200.0	3.0	2.5
AUL-18-18	200.0	203.0	2.7	1.1
AUL-18-18	203.0	206.0	3.0	2.1
AUL-18-18	206.0	209.0	3.0	2.4
AUL-18-18	209.0	212.0	2.9	2.8
AUL-18-18	212.0	215.0	3.0	1.7
AUL-18-18	215.0	218.0	3.0	2.1
AUL-18-18	218.0	221.0	3.0	2.7
AUL-18-18	221.0	224.0		
AUL-18-18	224.0	227.0		
AUL-18-18	227.0	230.0	2.9	2.5
AUL-18-18	230.0	233.0	2.9	2.5
AUL-18-18	233.0	236.0	3.0	2.8
AUL-18-18	236.0	239.0	3.0	2.8
AUL-18-18	239.0	242.0	3.0	3.0
AUL-18-18	242.0	245.0	3.0	2.7
AUL-18-18	245.0	248.0	3.0	2.3
AUL-18-18	248.0	251.0	3.0	2.7
AUL-18-18	251.0	254.0	3.0	2.6
AUL-18-18	254.0	257.0	3.0	2.6
AUL-18-18	257.0	260.0	3.0	2.3
AUL-18-18	260.0	263.0	3.0	2.6
AUL-18-18	263.0	266.0	3.0	2.4
AUL-18-18	266.0	269.0	3.0	2.8
AUL-18-18	269.0	272.0	3.0	2.4
AUL-18-18	272.0	275.0	3.0	2.8
AUL-18-18	275.0	278.0	3.0	2.9
AUL-18-18	278.0	281.0	3.0	2.6
AUL-18-18	281.0	284.0	2.9	2.4
AUL-18-18	284.0	287.0	3.0	2.9
AUL-18-18	287.0	290.0	3.0	2.4
AUL-18-18	290.0	293.0	3.0	2.8
AUL-18-18	293.0	296.0	3.0	2.8
AUL-18-18	296.0	299.0	3.0	3.0
AUL-18-18	299.0	302.0	3.0	2.8
AUL-18-18	302.0	305.0	3.0	2.5
AUL-18-18	305.0	308.0	3.0	2.7
AUL-18-18	308.0	311.0	3.0	2.8
AUL-18-18	311.0	314.0	3.0	2.6
AUL-18-18	314.0	317.0	3.0	2.9
AUL-18-18	317.0	320.0	3.0	2.8
AUL-18-18	320.0	323.0	3.0	3.0
AUL-18-18	323.0	326.0	3.0	2.9

RQD

AUL-18-18	326.0	329.0	3.0	3.0
AUL-18-18	329.0	332.0	2.9	3.0
AUL-18-18	332	335	3	2.8
AUL-18-18	335	338	3	2.7
AUL-18-18	338	341	3	2.1
AUL-18-18	341	344	3	1.8
AUL-18-18	344	347	3	2.8
AUL-18-18	347	350	3	3
AUL-18-18	350	353	3	3
AUL-18-18	353	356	3	3
AUL-18-18	356	359	3	2.9
AUL-18-18	359	362	3	3
AUL-18-18	362	365	3	2.6
AUL-18-18	365	368	3	3
AUL-18-18	368	371	3	3
AUL-18-18	371	374	3	3
AUL-18-18	374	377	3	3
AUL-18-18	377	380	3	2.9
AUL-18-18	380	383	2.9	2.9
AUL-18-18	383	386	3	2.7
AUL-18-18	386	389	3	2.9
AUL-18-18	389	392	2.9	2.9
AUL-18-18	392	395	3	3
AUL-18-18	395	398	3	2.9
AUL-18-18	398	401	3	2.7

Reflex

BHID	Depth	Az	Az Correct	Dip	Mag Field	Use Az	Use Dip	Comments
AUL-18-18	0		180	-55		Y	Y	As Spotted
AUL-18-18	80.0	195.8	182.8	-56.6	5828.0	N	Y	
AUL-18-18	131.0	192.7	179.7	-55.0	5591.0	Y	Y	
AUL-18-18	173.0	193.3	180.3	-54.1	5634.0	Y	Y	
AUL-18-18	224.0	191.7	178.7	-53.9	5683.0	Y	Y	
AUL-18-18	275.0	192.3	179.3	-52.3	5617.0	Y	Y	
AUL-18-18	326.0	194.1	181.1	-51.1	5560.0	Y	Y	
AUL-18-18	377.0	195.7	182.7	-50.1	5550.0	Y	Y	

Samples

BHID	Sample	From	To	Width	Stand/blank	QV %	Py%	Po%	Arsen Sphalerite	Hem	VG	other	wgt	au
AUL-18-18	1549436	72.0	73.0	1.0			5	1						1.96 <0.005
AUL-18-18	1549437	73.0	74.0	1.0			5	1						1.39 <0.005
AUL-18-18	1549438	74.0	75.0	1.0			5	1						2.02 <0.005
AUL-18-18	1549439			0.0	blank									0.15 <0.005
AUL-18-18	1549440	75.0	76.0	1.0			5	3						1.59 <0.005
AUL-18-18	1549441	76.0	77.0	1.0			5	3						1.8 <0.005
AUL-18-18	1549442	77.0	78.0	1.0				3						2.03 <0.005
AUL-18-18	1549443	78.0	79.0	1.0				3						1.77 <0.005
AUL-18-18	1549444	79.0	80.0	1.0				15	1					1.75 0.093
AUL-18-18	1549445			0.0	217									0.07 0.333
AUL-18-18	1549446	80.0	81.0	1.0				15	1					1.06 0.061
AUL-18-18	1549447	81.0	82.0	1.0				3	0.5					1.69 0.017
AUL-18-18	1549448	82.0	83.0	1.0				1						1.91 0.012
AUL-18-18	1549449	83.0	84.0	1.0				1	0.5					1.89 <0.005
AUL-18-18	1549450	84.0	85.0	1.0				1	0.5					2.25 <0.005
AUL-18-18	1549451			0.0	216									0.06 6.686
AUL-18-18	1549452	178.0	179.0	1.0				1						2.05 0.028
AUL-18-18	1549453	179.0	180.0	1.0			5	3						2.4 0.006
AUL-18-18	1549454	180.0	181.0	1.0			5	5	0.5					2.12 0.016
AUL-18-18	1549455	181.0	182.0	1.0			5	5	0.5					2.22 0.208
AUL-18-18	1549456	182.0	183.0	1.0			5	5	0.5					2.09 0.814
AUL-18-18	1549457	183.0	184.0	1.0			5	5	0.5					2.35 3.136
AUL-18-18	1549458			0.0	216									0.06 6.767
AUL-18-18	1549459	184.0	185.0	1.0			5	5	0.5					2.79 1.011
AUL-18-18	1549460	185.0	185.5	0.5			5	5	0.5					1.4 0.058
AUL-18-18	1549461	185.5	186.0	0.5			5	30	5					1.28 0.606
AUL-18-18	1549462	186.0	187.0	1.0			5	5						2.44 2.775
AUL-18-18	1549463	187.0	188.0	1.0			5	5						1.88 0.561
AUL-18-18	1549464	188.0	189.0	1.0			5	5						2.14 1.04
AUL-18-18	1549465	189.0	190.0	1.0			5	3						2.45 0.676
AUL-18-18	1549466	190.0	191.0	1.0				1						2.16 0.028
AUL-18-18	1549467	268.0	269.0	1.0				1						2.15 0.014
AUL-18-18	1549468			0.0	blank									0.12 <0.005
AUL-18-18	1549469	269.0	270.0	1.0				1						2.38 0.022
AUL-18-18	1549470	270.0	271.0	1.0				1						2.15 0.014
AUL-18-18	1549471	271.0	272.0	1.0				1						2.16 0.03
AUL-18-18	1549472	272.0	273.0	1.0				1						1.87 0.011
AUL-18-18	1549473	273.0	274.0	1.0				1						2.3 0.016
AUL-18-18	1549474			0.0	217									0.07 0.329
AUL-18-18	1549475	274.0	275.0	1.0				1						2.27 <0.005
AUL-18-18	1549476	275.0	276.0	1.0				1						2.12 0.007
AUL-18-18	1549477	276.0	277.0	1.0				1						2.19 <0.005

Samples

AUL-18-18	1549478	277.0	278.0	1.0					1			2.25	0.007
AUL-18-18	1549479	278.0	279.0	1.0					1			2.12	0.006
AUL-18-18	1549480			0.0	216							0.06	6.707
AUL-18-18	1549481	279.0	280.0	1.0					1			2.43	0.007
AUL-18-18	1549482	280.0	281.0	1.0					1			2.23	<0.005
AUL-18-18	1549483	281.0	282.0	1.0					1			2.35	<0.005
AUL-18-18	1549484	282.0	283.0	1.0					1			1.9	0.008
AUL-18-18	1549485	283.0	284.0	1.0					1			2.23	0.014
AUL-18-18	1549486	284.0	285.0	1.0					1			2.31	4.698
AUL-18-18	1549487			0.0	217							0.07	0.324
AUL-18-18	1549488	285.0	286.0	1.0					1			2.37	0.04
AUL-18-18	1549489	286.0	287.0	1.0					1			2.16	0.086
AUL-18-18	1549490	287.0	288.0	1.0		15			3			2.09	0.206
AUL-18-18	1549491	288.0	289.0	1.0		30			3			2.02	0.061
AUL-18-18	1549492	289.0	289.5	0.5		50			3			1.51	0.089
AUL-18-18	1549493	289.5	290.0	0.5		80		2	8			1.39	6.867
AUL-18-18	1549494			0.0 blank								0.12	<0.005
AUL-18-18	1549495	290.0	291.0	1.0		80		2	8			2.34	5.465
AUL-18-18	1549496	291.0	292.0	1.0		80		0.5	3			2.22	4.476
AUL-18-18	1549497	292.0	293.0	1.0		80		0.5	3			2.25	2.65
AUL-18-18	1549498	293.0	294.0	1.0		80		1	5			2.44	8.309
AUL-18-18	1549499	294.0	295.0	1.0		80		0.5	3			2.29	4.221
AUL-18-18	1549500			0.0	217							0.07	0.33
AUL-18-18	1549501	295.0	296.0	1.0		80		0.5	3			2.21	2.042
AUL-18-18	1549502	296.0	297.0	1.0		80		0.5	3			2.27	1.499
AUL-18-18	1549503	297.0	298.0	1.0		80		0.5	3			2.09	0.33
AUL-18-18	1549504	298.0	299.0	1.0		80		0.5	3			2.1	0.319
AUL-18-18	1549509	299.0	300.0	1.0		80			1			2.1	1.915
AUL-18-18	1549510			0.0 blank								0.11	<0.005
AUL-18-18	1549511	300.0	301.0	1.0		80			1			2.13	0.109
AUL-18-18	1549512	301.0	302.0	1.0		20			1			2.08	0.046
AUL-18-18	1549513	302.0	303.0	1.0		5			1			2.21	0.042
AUL-18-18	1549514	303.0	304.0	1.0		5			1			2.35	0.072
AUL-18-18	1549515	304.0	305.0	1.0		5			1			2.16	0.03
AUL-18-18	1549516	305.0	306.0	1.0		5			1			2.33	0.043
AUL-18-18	1549517			0.0	216							0.07	6.455
AUL-18-18	1549518	306.0	307.0	1.0		5			1			2.24	0.081
AUL-18-18	1549519	307.0	308.0	1.0		5			1			2.4	0.09
AUL-18-18	1549520	308.0	309.0	1.0		5			1			2.3	0.092
AUL-18-18	1549521	309.0	310.0	1.0		5			1			1.88	0.078
AUL-18-18	1549522			0.0 blank								0.12	<0.005
AUL-18-18	1549523	310.0	311.0	1.0		5			1			2.66	0.039
AUL-18-18	1549524	311.0	312.0	1.0		5			1			2.48	0.035

Samples

AUL-18-18	1549525	312.0	313.0	1.0		5	1		2.38	0.08
AUL-18-18	1549526	313.0	314.0	1.0		5	1		2.44	0.105
AUL-18-18	1549527	314.0	315.0	1.0		5	1		2.27	0.037
AUL-18-18	1549528	315.0	316.0	1.0		5	1		1.53	0.018
AUL-18-18	1549529	316.0	317.0	1.0		5	1		2.71	0.076
AUL-18-18	1549530			0.0	216				0.08	6.494
AUL-18-18	1549531	317.0	318.0	1.0		5	1		2.13	0.042
AUL-18-18	1549532	318.0	319.0	1.0		5	1		2.28	0.049
AUL-18-18	1549533	319.0	320.0	1.0		5	1		2.12	0.046
AUL-18-18	1549534	320.0	321.0	1.0		5	1		2.33	0.067
AUL-18-18	1549535	321.0	322.0	1.0		5	1		2.16	0.071
AUL-18-18	1549536	322.0	323.0	1.0		10	3	epi?/chl	2.48	0.219
AUL-18-18	1549537	323.0	324.0	1.0		5	1		2.44	0.15
AUL-18-18	1549538	324.0	325.0	1.0		5	1		2.42	2.155
AUL-18-18	1549539	325.0	326.0	1.0		5	1		2.16	0.285
AUL-18-18	1549540	346.0	347.0	1.0			1		2.43	0.007
AUL-18-18	1549541	347.0	348.0	1.0			3		2.05	0.037
AUL-18-18	1549542	348.0	349.0	1.0			1		2.39	0.013

Header

DDH ID	AUL-18-19					
	Claim #	East	North	Az	Dip	EOH (m) (Nad 83)
Location	3019086	592279	5483246	180	-63	242
Purpose	Test Mikwam Zone					
Start date	Sep 15 2018					
End date	Sep 16 2018					
Drill Contractor	Norex Drilling					
Logged By	T.Keast					
Comments	Casing left in hole					

Description

BHID	From	To	Litho	Comment
AUL-18-19	0	45	CAS	Casing through overburden
AUL-18-19	45	94.3	ARGgry	Argillite Grey - Distinct banded/bedded sequence with alternating light and dark grey bands. 57.0-61.0 Broken blocky core, fault gouge.
AUL-18-19	94.3	120.3	ARGblk	Argillite Black - Dark black fine grained banded/bedded with mm wide foliation bands. 3-5% py in cubes and disseminations. Locally py cubes up to 7mm H 7 just able to scratch Abrupt upper contact 40 deg to CA.
AUL-18-19	120.3	152.4	ARGgry	Argillite Grey - Distinct banded/bedded sequence with alternating light and dark grey bands. Local intervals with mm wide laminations. H<7 barely able to scratch
AUL-18-19	152.4	162.6	FAULT	Fault Zone - Low core angles and multiple Fault like sections suggest this is overall the fault Structure Fault intervals consist of brecciated quartz veins and ragged wall rock xenoliths with 1 m wide grey argillite intervals 152.4-153.1 Brecciated qtz vein chloritic groundmass. 153.1 -154.2 Grey Argillite well banded 154.2-156.2 15-20% Qtz veins with ragged wall rock clasts. 156.2 - 156.6 Grey Argillite 156.6-158.0 Qtz veins with ragged wall rock fragments 158.0-158.2 Narrow fault feature with healed angular clasts. 158.2 - 161.3 Low angle foliation with grey argillite. 161.3-162.6 - Grey Argillite
AUL-18-19	162.6	185.9	MINZON	Mineralized Zone - Quartz veins and vein breccia with disseminated and patchy py and scattered intervals of arsenopyrite

Description

Zone contains scattered xenoliths of altered wallrock up to several metres.

162.6 -168.5 90% Quartz vein and vein breccia 10-15% py 1-3% Arseno

168.5-170.6 Xenolith of wall rock argillite, 10% quartz veins 1-3% py

170.6-171.7 Wall Rock xenolith 1% QV

171.7-173.0 25% QV 10% py 1% Arseno

173.0-174.5 -Xenolith 5% QV tr py

174.5 -176.5 Xenolith with 10-15% QV, 1-3% py.

176.5-178.0 75% Quartz Veins 15%py,1-3% Arseno

178.0-179.0 - Xenolith 10% QV 1-3% py

179.0-185.9 - 90% Quartz vein and vein breccia, 10% py,1-3% arseno

AUL-18-19	185.9	228	BLCHfw	Intrusion? Massive Greywacke? Light color massive homogenous appearance. Weak to non foliated Sericitic qtz groundmass fine grained with distinct 1-2mm dark quartz grains (round). 185.9 - 202.0 3-5% 1-5 cm white qtz veins tr py.
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AUL-18-19	228	242	WACKE	Greywacke? Medium grained homogenous granular texture. Weak to moderate foliation with lighter and darker grey foliation bands. Dark grey qtz grains 1mm round. Down unit faint bands/beds several cm wide to 1mm.
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Mineralization

BHID	From	To	Qtz Veins %	Py %	Po %	Arseno %	Other	Comments	Conductors (tested with ohmeter)
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Structure

BHID	Depth	Deg to CA	Comment	Comment
AUL-18-19	49.0	45 fol		Banding/Bedding
AUL-18-19	56.0	45 fol		Folded Banding
AUL-18-19	72.0	25 fol		Banding/Bedding
AUL-18-19	93.0	40 fol		Banding/Bedding
AUL-18-19	109.0	10 fol		Banding/Bedding
AUL-18-19	123.0	30 fol		Banding/Bedding
AUL-18-19	136.0	25 fol		Banding/Bedding
AUL-18-19	141.0	40 fol		Banding/Bedding
AUL-18-19	151.0	45 fol		Banding/Bedding
AUL-18-19	157.0	35 fol		fault Breccia?
AUL-18-19	163.0	40 fol		
AUL-18-19	171.0	30 fol		
AUL-18-19	178.0	10 fol		
AUL-18-19	190.5	15 fol		
AUL-18-19	206.0	20 fol		
AUL-18-19	212.0	20 fol		
AUL-18-19	220.0	30 fol		
AUL-18-19	229.0	25 fol		Banding/Bedding
AUL-18-19	241.0	35 fol		Banding/Bedding

MagSuscept

BHID	Depth	MS	<i>Terraplus KT-5 Magnetic Susceptibility Meter</i>
AUL-18-19	47.0	0.07	
AUL-18-19	56.0	0.07	
AUL-18-19	60.0	0.08	
AUL-18-19	69.0	0.05	
AUL-18-19	82.0	0.03	
AUL-18-19	91.0	0.12	
AUL-18-19	100.0	0.00	
AUL-18-19	110.0	0.03	
AUL-18-19	119.0	0.07	
AUL-18-19	126.0	0.12	
AUL-18-19	133.0	0.37	
AUL-18-19	141.0	0.67	
AUL-18-19	150.0	2.26	
AUL-18-19	154.0	2.04	
AUL-18-19	159.0	0.89	
AUL-18-19	165.0	0.19	
AUL-18-19	168.0	2.15	
AUL-18-19	174.0	0.30	
AUL-18-19	178.0	0.42	
AUL-18-19	181.0	0.01	
AUL-18-19	182.0	0.23	
AUL-18-19	185.0	0.51	
AUL-18-19	191.0	0.10	
AUL-18-19	198.0	0.18	
AUL-18-19	204.0	0.19	
AUL-18-19	208.0	0.42	
AUL-18-19	212.5	1.31	
AUL-18-19	218.0	0.35	
AUL-18-19	221.0	0.04	
AUL-18-19	227.0	0.80	
AUL-18-19	231.0	0.18	
AUL-18-19	235.0	1.45	
AUL-18-19	242.0	0.15	

RQD

BHID	From	To	Recovery	RQD	Comments
AUL-18-19	45	47	2	0.8	
AUL-18-19	47.0	50.0	3.0	1.7	
AUL-18-19	50.0	53.0	2.9	2.5	
AUL-18-19	53.0	56.0	3.0	2.4	
AUL-18-19	56.0	59.0	3.0	1.0	
AUL-18-19	59.0	62.0	3.0	0.2	
AUL-18-19	62.0	65.0	3.0	0.2	
AUL-18-19	65.0	68.0	3.0	0.3	
AUL-18-19	68.0	71.0	2.8	2.5	
AUL-18-19	71.0	74.0	2.7	1.7	
AUL-18-19	74.0	77.0	3.0	2.4	
AUL-18-19	77.0	80.0	3.0	2.8	
AUL-18-19	80.0	83.0	2.8	1.2	
AUL-18-19	83.0	86.0	3.0	2.0	
AUL-18-19	86.0	89.0	3.0	2.1	
AUL-18-19	89.0	92.0	2.8	1.8	
AUL-18-19	92.0	95.0	2.9	1.0	
AUL-18-19	95.0	98.0	3.0	1.5	
AUL-18-19	98.0	101.0	3.0	2.3	
AUL-18-19	101.0	104.0	3.0	2.5	
AUL-18-19	104.0	107.0	3.0	2.4	
AUL-18-19	107.0	110.0	3.0	1.8	
AUL-18-19	110.0	113.0	3.0	2.0	
AUL-18-19	113.0	116.0	3.0	2.4	
AUL-18-19	116.0	119.0	3.0	1.4	
AUL-18-19	119.0	122.0	3.0	2.3	
AUL-18-19	122.0	125.0	2.9	2.5	
AUL-18-19	125.0	128.0	3.0	2.3	
AUL-18-19	128.0	131.0	2.9	2.1	
AUL-18-19	131.0	134.0	3.0	2.4	
AUL-18-19	134.0	137.0	3.0	2.1	
AUL-18-19	137.0	140.0	3.0	2.4	
AUL-18-19	140.0	143.0	2.9	2.0	
AUL-18-19	143.0	146.0	3.0	2.4	
AUL-18-19	146.0	149.0	3.0	2.9	
AUL-18-19	149.0	152.0	3.0	2.2	
AUL-18-19	152.0	155.0	3.0	2.8	
AUL-18-19	155.0	158.0	3.0	2.8	
AUL-18-19	158.0	161.0	3.0	2.5	
AUL-18-19	161.0	164.0	3.0	2.1	
AUL-18-19	164.0	167.0	3.0	3.0	
AUL-18-19	167.0	170.0	3.0	2.9	
AUL-18-19	170.0	173.0	3.0	2.9	
AUL-18-19	173.0	176.0	3.0	2.9	
AUL-18-19	176.0	179.0	3.0	3.0	
AUL-18-19	179.0	182.0	2.9	2.8	

RQD

AUL-18-19	182.0	185.0	3.0	2.9
AUL-18-19	185.0	188.0	3.0	2.6
AUL-18-19	188.0	191.0	3.0	3.0
AUL-18-19	191.0	194.0	3.0	2.9
AUL-18-19	194.0	197.0	3.0	3.0
AUL-18-19	197.0	200.0	3.0	3.0
AUL-18-19	200.0	203.0	3.0	3.0
AUL-18-19	203.0	206.0	3.0	3.0
AUL-18-19	206.0	209.0	3.0	2.8
AUL-18-19	209.0	212.0	3.0	3.0
AUL-18-19	212.0	215.0	3.0	3.0
AUL-18-19	215.0	218.0	3.0	2.8
AUL-18-19	218.0	221.0	3.0	2.9
AUL-18-19	221.0	224.0	3.0	3.0
AUL-18-19	224.0	227.0	3.0	2.9
AUL-18-19	227.0	230.0	2.9	2.9
AUL-18-19	230.0	233.0	3.0	2.7
AUL-18-19	233.0	236.0	3.0	2.8
AUL-18-19	236.0	239.0	3.0	2.9
AUL-18-19	239.0	242.0	3.0	2.6

Reflex

BHID	Depth	Az	Az Correct	Dip	Mag Field	Use Az	Use Dip	Comments
AUL-18-19	0.0	180.0	180.0	-63.0				As Spotted
AUL-18-19	59.0	191.2	178.2	-64.5	5760.0			
AUL-18-19	110.0	193.0	180.0	-62.9	5697.0			
AUL-18-19	161.0	194.1	181.1	-61.3	5650.0			
AUL-18-19	212.0	197.4	184.4	-60.3	5590.0			
AUL-18-19	242.0	197.8	184.8	-60.1	5580.0			

Samples

BHID	Sample	From	To	Width	Stand/blank	QV %	Py%	Po%	Arsen Sphalerite	Hem	VG	other
AUL-18-19	1649594	98.0	99.0	1.0				2				
AUL-18-19	1649595	99.0	100.0	1.0				2				
AUL-18-19	1649596	100.0	101.0	1.0				2				
AUL-18-19	1649597	101.0	102.0	1.0				2				
AUL-18-19	1649598	102.0	103.0	1.0				2				
AUL-18-19	1649599	103.0	104.0	1.0				2				
AUL-18-19	1649600				blank							
AUL-18-19	1649601	104.0	105.0	1.0				2				
AUL-18-19	1649602	105.0	106.0	1.0				2				
AUL-18-19	1649603					217						
AUL-18-19	1649604	106.0	107.0	1.0				2				
AUL-18-19	1649605	107.0	108.0	1.0				2				
AUL-18-19	1649606	108.0	109.0	1.0				2				
AUL-18-19	1649607	109.0	110.0	1.0				3				
AUL-18-19	1649608	110.0	111.0	1.0				7				
AUL-18-19	1649609	111.0	112.0	1.0				7				
AUL-18-19	1649610	112.0	113.0	1.0				2				
AUL-18-19	1649611	113.0	114.0	1.0				2				
AUL-18-19	1649612	114.0	115.0	1.0				2				
AUL-18-19	1649613	150.5	151.5	1.0								
AUL-18-19	1649614	151.5	152.4	0.9								
AUL-18-19	1649615	152.4	153.5	1.1			90	2				
AUL-18-19	1649616	153.5	154.5	1.0								
AUL-18-19	1649617	154.5	155.5	1.0			20					
AUL-18-19	1649618	155.5	156.5	1.0								
AUL-18-19	1649619					216						
AUL-18-19	1649620	156.5	157.5	1.0			25	3				
AUL-18-19	1649621	157.5	158.5	1.0			10	3				
AUL-18-19	1649622	158.5	159.5	1.0			5					
AUL-18-19	1649623	159.5	160.5	1.0								
AUL-18-19	1649624				blank							
AUL-18-19	1649625	160.5	161.5	1.0								
AUL-18-19	1649626	161.5	162.6	1.1								
AUL-18-19	1649627	162.6	163.5	0.9			90	15	5			
AUL-18-19	1649628	163.5	164.5	1.0			90	15	5			
AUL-18-19	1649629	164.5	165.5	1.0			90	15	5			
AUL-18-19	1649630					217						
AUL-18-19	1649631	165.5	166.5	1.0			90	15	5			
AUL-18-19	1649632	166.5	167.5	1.0			90	15	5			
AUL-18-19	1649633	167.5	168.5	1.0			90	15	5			
AUL-18-19	1649634	168.5	169.5	1.0			10	3				
AUL-18-19	1649635	169.5	170.6	1.1			10	3				

Samples

AUL-18-19	1649636	170.6	171.7	1.1		1	1	
AUL-18-19	1649637	171.7	172.5	0.8		25	10	1
AUL-18-19	1649638	172.5	173.0	0.5		25	10	1
AUL-18-19	1649639				blank			
AUL-18-19	1649640	173.0	174.5	1.5		5	1	
AUL-18-19	1649641	174.5	175.5	1.0		5	1	
AUL-18-19	1649642	175.5	176.5	1.0		15	3	
AUL-18-19	1649643	176.5	178.0	1.5		75	15	3
AUL-18-19	1649644	178.0	179.0	1.0		10	3	
AUL-18-19	1649645	179.0	180.0	1.0		90	10	3
AUL-18-19	1649646	180.0	181.0	1.0		90	10	3
AUL-18-19	1649647							
					216			
AUL-18-19	1649648	181.0	182.0	1.0		90	10	3
AUL-18-19	1649649	182.0	183.0	1.0		90	10	3
AUL-18-19	1649650	183.0	184.0	1.0		90	10	3
AUL-18-19	1649651	184.0	185.0	1.0		90	10	3
AUL-18-19	1649652	185.0	185.9	0.9				
AUL-18-19	1649653	185.9	187.0	1.1				
AUL-18-19	1649654	187.0	188.0	1.0				
AUL-18-19	1649655	188.0	189.0	1.0				
AUL-18-19	1649656	189.0	190.0	1.0				
AUL-18-19	1649657	190.0	191.0	1.0				
AUL-18-19	1649658	191.0	192.0	1.0				
AUL-18-19	1649659				blank			
AUL-18-19	1649660	192.0	193.0	1.0				
AUL-18-19	1649661	193.0	194.0	1.0				
AUL-18-19	1649662	194.0	195.0	1.0				
AUL-18-19	1649663	195.0	196.0	1.0				
AUL-18-19	1649664	196.0	197.0	1.0				
AUL-18-19	1649665	197.0	198.0	1.0				
AUL-18-19	1649666							
					217			
AUL-18-19	1649667	198.0	199.0	1.0				
AUL-18-19	1649668	199.0	200.0	1.0				
AUL-18-19	1649669	200.0	201.0	1.0				
AUL-18-19	1649670	201.0	202.0	1.0				
AUL-18-19	1649671	202.0	203.0	1.0				
AUL-18-19	1649672	203.0	204.0	1.0				
AUL-18-19	1649673	204.0	205.0	1.0				

Header

DDH ID	AUL-18-20					
	Claim #	East	North	Az	Dip	EOH (m) (Nad 83)
Location	3019086	592250	5483200	180	-45	125
Purpose	Test Mikwam Zone					
Start date	Sep 17 2018					
End date	Sep 18 2018					
Drill Contractor	Norex Drilling					
Logged By	T.Keast					
Comments	Casing left in hole					

Description

BHID	From	To	Litho	Comment
AUL-18-20	0	54	CAS	Casing through overburden
AUL-18-20	54	74.0	ARGgry	Argillite Grey - Distinct banded/bedded sequence with alternating light and dark grey bands. Broken blocky core throughout. Numerous fault gouge intervals <6cm Foliation increaseing downunit.
AUL-18-20	74	85.6	FAULT	Fault Zone - Low core angles and multiple Fault like sections suggest this is overall the fault Structure Fault intervals consist of brecciated quartz veins and ragged wall rock xenoliths. Vuggy texture, oxidized with limonitic core ends. 10-15% brecciated veins in unit
AUL-18-20	85.6	92.0	MINZON	Mineralized Zone - Quartz veins and vein breccia with disseminated and patchy py and scattered Oxidized throughout limonitic staining and vuggy texture. Localy 20% py suggests good correlation with IP anomaly.
AUL-18-20	92.0	106.0	BLCHfw	Conglomerate Altered - Bleached sericite qtz rich alteration seen below the Mineralized Zone, however distinct clasts of conglomerate are preserved. Green Fuccsite altered clasts. Quatyz veins 5-10%.
AUL-18-20	106	125	BLCHfw	Argillite Altered- Continuation of the above bleached sericite qtz alteration however conglomerate clasts abrupt termination. Massive homogenous with weak faint banding. 3-5% qtz veins throughout.

Mineralization

BHID	From	To	Qtz Veins %	Py %	Po %	Arseno %	Other	Comments	Conductors (tested with ohmeter)
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Structure

BHID	Depth	Deg to CA	Comment	Comment
AUL-18-20	58.0	35 fol		Banding/Bedding
AUL-18-20	66.0	35 fol		Banding/Bedding
AUL-18-20	76.0	30 fol		Banding/Bedding
AUL-18-20	82.0	10 fol		fault Breccia?
AUL-18-20	85.6	30 Contact		
AUL-18-20	88.0	40 fol		
AUL-18-20	90.0	50 fol		fault Breccia?
AUL-18-20	95.0	50 fol		clasts
AUL-18-20	99.0	40 fol		clasts
AUL-18-20	103.0	40 fol		clasts
AUL-18-20	105.5	40 fol		clasts
AUL-18-20	111.0	45 fol		Banding/Bedding
AUL-18-20	118.0	45 fol		Banding/Bedding
AUL-18-20	124.0	50 fol		Banding/Bedding

MagSuscept

BHID	Depth	MS	<i>Terraplus KT-5 Magnetic Susceptibility Meter</i>
AUL-18-20	57.0	0.01	
AUL-18-20	65.0	0.08	
AUL-18-20	69.5	0.07	
AUL-18-20	75.0	0.01	
AUL-18-20	79.0	0.10	
AUL-18-20	82.0	0.03	
AUL-18-20	87.0	0.01	
AUL-18-20	90.0	0.04	
AUL-18-20	93.0	0.13	
AUL-18-20	95.5	0.06	
AUL-18-20	98.0	0.13	
AUL-18-20	102.0	0.17	
AUL-18-20	105.0	0.18	
AUL-18-20	107.0	0.17	
AUL-18-20	111.0	0.86	
AUL-18-20	115.0	1.20	
AUL-18-20	118.0	1.12	
AUL-18-20	124.0	2.06	

RQD

BHID	From	To	Recovery	RQD	Comments
AUL-18-20	56.5	59	3	0.7	
AUL-18-20	59.0	62.0	2.6	0.7	
AUL-18-20	62.0	65.0	1.8	1.1	
AUL-18-20	65.0	68.0	3.0	1.5	
AUL-18-20	68.0	71.0	3.0	0.6	
AUL-18-20	71.0	74.0	3.0	1.4	
AUL-18-20	74.0	77.0	2.9	2.1	
AUL-18-20	77.0	80.0	2.9	2.4	
AUL-18-20	80.0	83.0	3.0	1.4	
AUL-18-20	83.0	86.0	3.0	1.8	
AUL-18-20	86.0	89.0	3.0	2.2	
AUL-18-20	89.0	92.0	2.8	1.8	
AUL-18-20	92.0	95.0	3.0	2.8	
AUL-18-20	95.0	98.0	3.0	2.6	
AUL-18-20	98.0	101.0	3.0	2.6	
AUL-18-20	101.0	104.0	3.0	2.8	
AUL-18-20	104.0	107.0	3.0	2.6	
AUL-18-20	107.0	110.0	3.0	2.4	
AUL-18-20	110.0	113.0	2.8	2.5	
AUL-18-20	113.0	116.0	3.0	2.7	
AUL-18-20	116.0	119.0	2.9	1.8	
AUL-18-20	119.0	122.0	3.0	2.6	
AUL-18-20	122.0	125.0	3.0	2.6	

Reflex

BHID	Depth	Az	Az Correct	Dip	Mag Field	Use Az	Use Dip	Comments
AUL-18-20	0.0	180.0	180.0	-45.0				As Spotted
AUL-18-20	101.0	193.1	180.1	-46.1	5661.0	Y	Y	
AUL-18-20	125.0	195.3	182.3	-45.2	5632.0	Y	Y	

Samples

AUL-18-20	1649716	109.0	110.0	1.0				2.56	0.037
AUL-18-20	1649717	110.0	111.0	1.0				2.34	0.25
AUL-18-20	1649718	111.0	112.0	1.0		10	1	2.14	0.094
AUL-18-20	1649719				blank			0.1	<0.005
AUL-18-20	1649720	112.0	113.0	1.0				1.91	0.032
AUL-18-20	1649721	113.0	114.0	1.0				1.86	0.075
AUL-18-20	1649722	114.0	115.0	1.0				2.2	0.009
AUL-18-20	1649723	115.0	116.0	1.0				2.29	0.017
AUL-18-20	1649724	116.0	117.0	1.0				2.11	0.028
AUL-18-20	1649725	117.0	118.0	1.0		3		2.64	0.036
AUL-18-20	1649726	118.0	119.0	1.0				1.91	0.124
AUL-18-20	1649727					216		0.05	6.648
AUL-18-20	1649728	119.0	120.0	1.0		15		2.37	6.438
AUL-18-20	1649729	120.0	121.0	1.0		20		1.57	0.213
AUL-18-20	1649730	121.0	122.0	1.0		50		2.52	0.396
AUL-18-20	1649731	122.0	123.0	1.0				1.58	0.256
AUL-18-20	1649732	123.0	124.0	1.0		5		2.2	0.86
AUL-18-20	1649733	124.0	125.0	1.0		5		2.08	0.039

Header

DDH ID	AUL-18-21					
	Claim #	East	North	Az	Dip	EOH (m) (Nad 83)
Location	3019086	592250	5483200	180	-65	143
Purpose	Test Mikwam Zone					
Start date	Sep 18 2018					
End date	Sep 19 2018					
Drill Contractor	Norex Drilling					
Logged By	T.Keast					
Comments	Casing left in hole					

Description

BHID	From	To	Litho	Comment
AUL-18-21	0	50	CAS	Casing through overburden
AUL-18-21	50	78.0	ARGblk	Argillite Black - Dark black fine sooty banded/bedded sequence. Strong foliation throughout with scattered shiny graphite slip planes. Foliation increasing downunit. 60.0-68.0 Broken blocky core
AUL-18-21	78	88	ARGshd	Argillite Sheared - Gradational increase in the intensity of foliation down unit. Distinct carbonate stringers, boudinaged in the foliation planes. Overall stronger banded appearance
AUL-18-21	88	111.5	FAULT	Fault Zone - Low core angles and multiple Fault like sections suggest this is overall the fault Structure Fault intervals consist of brecciated quartz veins and ragged black argillite fragments. Fine disseminated py locally up to 10-15%. 10-15% brecciated Qtz carb veins and stringers throughout unit. 91.5-94.0 Black argillite with 15-20% py, vuggy texture. 94.5-95.5 Graphite interval, strong conductor across and along the core axis over 15cm. 107-108 graphite conductive rich interval.
AUL-18-21	111.5	113	MINZON	Mineralized Zone - Weak questionable mineralized zone. Altered xenoliths with a single Qtz vein. Does not contain the heavy sulphide or arsenopyrite.
AUL-18-21	113	143	WACKE	Greywack/altered argillite grey. Light Qtz sericite rich unit with weak foliation, massive homogenous appearance with distinct 1mm grey Qtz grains. 113-116 5-7% Qtz veins

Mineralization

BHID	From	To	Qtz Veins %	Py %	Po %	Arseno %	Other	Comments	Conductors (tested with ohmeter)
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Structure

BHID	Depth	Deg to CA	Comment	Comment
AUL-18-21	52.0	20 fol		Banding/Bedding
AUL-18-21	59.0	15 fol		Banding/Bedding
AUL-18-21	69.0	25 fol		folding
AUL-18-21	77.0	20 fol		
AUL-18-21	86.0	20 fol		Shear/fault
AUL-18-21	90.0	55 fol		Fault gouge
AUL-18-21	96.0	10		Fault gouge
AUL-18-21	106.0	5 fol		
AUL-18-21	112.0	15 fol		
AUL-18-21	121.0	40 fol		Banding/Bedding

MagSuscept

BHID	Depth	MS	<i>Terraplus KT-5 Magnetic Susceptibility Meter</i>
AUL-18-21	52.0	0.02	
AUL-18-21	54.0	0.00	
AUL-18-21	58.0	0.07	
AUL-18-21	71.0	0.04	
AUL-18-21	79.0	0.03	
AUL-18-21	84.0	0.07	
AUL-18-21	87.0	0.03	
AUL-18-21	92.0	0.27	
AUL-18-21	95.0	0.17	
AUL-18-21	99.0	0.02	
AUL-18-21	101.0	0.00	
AUL-18-21	104.0	0.03	
AUL-18-21	108.0	0.04	
AUL-18-21	112.0	0.16	
AUL-18-21	115.0	0.10	
AUL-18-21	119.0	0.57	
AUL-18-21	125.0	0.58	
AUL-18-21	130.0	1.03	

RQD

BHID	From	To	Recovery	RQD	Comments
AUL-18-21	50	53	3	1.5	
AUL-18-21	53.0	56.0	2.9	2.8	
AUL-18-21	56.0	59.0	2.9	1.8	
AUL-18-21	59.0	62.0	2.6	0.6	
AUL-18-21	62.0	65.0	3.0	0.5	
AUL-18-21	65.0	68.0	3.0	0.2	
AUL-18-21	68.0	71.0	3.0	1.8	
AUL-18-21	71.0	74.0	2.9	2.2	
AUL-18-21	74.0	77.0	3.0	1.8	
AUL-18-21	77.0	80.0	2.9	1.8	
AUL-18-21	80.0	83.0	3.0	1.7	
AUL-18-21	83.0	86.0	3.0	1.5	
AUL-18-21	86.0	89.0	3.0	2.2	
AUL-18-21	89.0	92.0	3.0	1.5	
AUL-18-21	92.0	95.0	3.0	1.8	
AUL-18-21	95.0	98.0	3.0	1.2	
AUL-18-21	98.0	101.0	3.0	1.7	
AUL-18-21	101.0	104.0	3.0	2.4	
AUL-18-21	104.0	107.0	2.9	2.9	
AUL-18-21	107.0	110.0	3.0	2.3	
AUL-18-21	110.0	113.0	3.0	2.9	
AUL-18-21	113.0	116.0	2.9	2.8	
AUL-18-21	116.0	119.0	3.0	2.9	
AUL-18-21	119.0	122.0	3.0	2.9	
AUL-18-21	122.0	125.0	3.0	3.0	
AUL-18-21	125.0	128.0	2.9	2.8	
AUL-18-21	128.0	131.0	3.0	3.0	
AUL-18-21	131.0	134.0	3.0	3.0	
AUL-18-21	134.0	136.0	1.0	1.9	

Reflex

BHID	Depth	Az	Az Correct	Dip	Mag Field	Use Az	Use Dip	Comments
AUL-18-21			180.0	-65.0				As Spotted
AUL-18-21	66.0	192.4	179.4	-65.7	5728.0	Y	Y	

*only one test on this hole. Checked with the book at drill, confirmed only one test

Samples

BHID	Sample	From	To	Width	Stand/blank	QV %	Py%	Po%	Arsen Sphalerite	Hem	VG	other	wgt	au
AUL-18-21	1649734	76.0	77.0	1.0									2.21	0.023
AUL-18-21	1649735	77.0	78.0	1.0									1.71	0.027
AUL-18-21	1649736	78.0	79.0	1.0									1.96	0.029
AUL-18-21	1649737	79.0	80.0	1.0									1.89	0.021
AUL-18-21	1649738	80.0	81.0	1.0									1.94	0.018
AUL-18-21	1649739				Blank								0.13	<0.005
AUL-18-21	1649740	81.0	82.0	1.0									2.27	0.025
AUL-18-21	1649741	82.0	83.0	1.0									2.32	0.023
AUL-18-21	1649742	83.0	84.0	1.0									1.59	0.03
AUL-18-21	1649743	84.0	85.0	1.0									2.47	0.028
AUL-18-21	1649744					217							0.07	0.347
AUL-18-21	1649745	85.0	86.0	1.0									2.36	0.021
AUL-18-21	1649746	86.0	87.0	1.0									2.13	0.014
AUL-18-21	1649747	87.0	88.0	1.0									2.36	0.015
AUL-18-21	1649748	88.0	89.0	1.0									2.64	0.118
AUL-18-21	1649749	89.0	90.0	1.0									1.85	0.126
AUL-18-21	1649750	90.0	91.0	1.0									1.93	0.315
AUL-18-21	1649751	91.0	92.0	1.0									2.5	0.09
AUL-18-21	1649752	92.0	93.0	1.0									2.05	1.742
AUL-18-21	1649753	93.0	94.0	1.0									2.36	4.743
AUL-18-21	1649754	94.0	95.0	1.0									2.53	1.164
AUL-18-21	1649755	95.0	96.0	1.0									1.67	0.872
AUL-18-21	1649756				Blank								0.12	0.011
AUL-18-21	1649757	96.0	97.0	1.0									2.13	0.238
AUL-18-21	1649758	97.0	98.0	1.0									1.9	0.527
AUL-18-21	1649759	98.0	99.0	1.0									2.35	1.069
AUL-18-21	1649760	99.0	100.0	1.0									2.57	0.27
AUL-18-21	1649761	100.0	101.0	1.0									1.82	0.071
AUL-18-21	1649762					216							0.06	6.568
AUL-18-21	1649763	101.0	102.0	1.0									2.49	0.047
AUL-18-21	1649764	102.0	103.0	1.0									2.11	0.051
AUL-18-21	1649765	103.0	104.0	1.0									2.26	0.031
AUL-18-21	1649766	104.0	105.0	1.0									2.19	0.063
AUL-18-21	1649767	105.0	106.0	1.0									2.53	0.023
AUL-18-21	1649768	106.0	107.0	1.0									2.09	0.059
AUL-18-21	1649769	107.0	108.0	1.0									2.08	0.142
AUL-18-21	1649770	108.0	109.0	1.0									2.43	0.782
AUL-18-21	1649771	109.0	110.0	1.0									2.24	0.097
AUL-18-21	1649772				Blank								0.11	0.007
AUL-18-21	1649773	110.0	111.0	1.0									3.41	0.22
AUL-18-21	1649774	111.0	112.0	1.0									3.21	2.319
AUL-18-21	1649775	112.0	113.0	1.0									2.83	1.676

Samples

AUL-18-21	1649776	113.0	114.0	1.0		2.13	0.099
AUL-18-21	1649777	114.0	115.0	1.0		2.09	0.232
AUL-18-21	1649778	115.0	116.0	1.0		2.3	0.045
AUL-18-21	1649779					0.06	0.34
AUL-18-21	1649780	116.0	117.0	1.0		2.34	0.022
AUL-18-21	1649781	117.0	118.0	1.0		2.32	0.016
AUL-18-21	1649782	118.0	119.0	1.0		2.15	0.045
AUL-18-21	1649783	119.0	120.0	1.0		2.2	0.036
AUL-18-21	1648053	130.5	131.0	0.5		1.54	<0.005
AUL-18-21	1648054	131.0	132.0	1.0		1.95	<0.005
AUL-18-21	1648055				216	0.07	6.708
AUL-18-21	1648056	132.0	133.0	1.0		2.04	<0.005
AUL-18-21	1648057	133.0	134.0	1.0		2.3	<0.005
AUL-18-21	1648058	134.0	135.0	1.0		2.41	0.006
AUL-18-21	1648059				Blank	0.23	<0.005
AUL-18-21	1648060	135.0	136.0	1.0		2.58	0.01

Header

DDH ID	AUL-18-22					
	Claim #	East	North	Az	Dip	EOH (m) (Nad 83)
Location	3019086	592350	5483130	180	-50	125
Purpose	Test Mikwam Zone					
Start date	Sep 19 2018					
End date	Sep 20 2018					
Drill Contractor	Norex Drilling					
Logged By	T.Keast					
Comments	Casing left in hole					

Description

BHID	From	To	Litho	Comment
AUL-18-22	0	48	CAS	Casing through overburden
AUL-18-22	48	49.5	IFchl	Iron Formation Green Chlorite groundmass. Distinct banding/bedding with fine dark magnetite
AUL-18-22	49.5	62.5	FAULT	Fault - Chaotic interval of brecciated argillite, some xenoliths bleached beyond recognition. Strong foliation and fault breccia intervals. Py locally up to 10%. 51-52 Strong foliation, fault breccia interval 10-15% qtz veins, 10-15% py
AUL-18-22	62.5	71.4	MINZON	Mineralized Zone - 75% quartz veins and vein breccia with up to 20% py in patches and disseminations. Local dissem and clusters of Arsenopyrite.
AUL-18-22	71.4	96.8	ARGgry	Argillite Grey- Strong foliation bleached for upper several metres original lithology ? Down hole unit strong foliation but banded appearance and color typical of the Argillite.
AUL-18-22	96.8	107.0	CONG	Conglomerate - Light buff with distinct light and dark flat clasts several cm. Granular groundmass.
AUL-18-22	107.0	117.8	ARGgry	Argillite Grey - Strongly foliated, original lithology not readily identified. Faint remnant banding possible grey argillite bands, strong structural foliation overprint.
AUL-18-22	117.8	121.5	CONG	Conglomerate - Light buff with distinct light and dark flat clasts several cm. Granular groundmass.
AUL-18-22	121.5	125	ARGgry	Argillite Grey - Strongly foliated, original lithology not readily identified. Faint remnant banding possible grey argillite bands, strong structural foliation overprint.

Mineralization

BHID	From	To	Qtz Veins %	Py %	Po %	Arseno %	Other	Comments	Conductors (tested with ohmeter)
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Structure

BHID	Depth	Deg to CA	Comment	Comment
AUL-18-22	48.0	45 fol		Banding/Bedding
AUL-18-22	51.0	20 fol		Faulting
AUL-18-22	57.5	40 fol		
AUL-18-22	61.0	20 fol		Faulting
AUL-18-22	72.0	15 fol		Banding/Bedding
AUL-18-22	80.0	25 fol		Banding/Bedding
AUL-18-22	91.0	30 fol		Banding/Bedding
AUL-18-22	99.0	50 fol		clasts
AUL-18-22	104.0	30 fol		clasts
AUL-18-22	111.0	35 fol		Banding/Bedding
AUL-18-22	123.0	40 fol		Banding/Bedding

MagSuscept

BHID	Depth	MS	<i>Terraplus KT-5 Magnetic Susceptibility Meter</i>
AUL-18-22	48.0	384.00	
AUL-18-22	49.0	0.60	
AUL-18-22	51.0	0.19	
AUL-18-22	56.0	0.12	
AUL-18-22	61.0	65.00	
AUL-18-22	65.0	0.01	
AUL-18-22	68.0	0.00	
AUL-18-22	71.0	0.06	
AUL-18-22	75.0	0.67	
AUL-18-22	80.0	0.06	
AUL-18-22	86.0	0.06	
AUL-18-22	94.0	0.12	
AUL-18-22	101.0	0.00	
AUL-18-22	109.0	0.12	
AUL-18-22	114.0	0.10	
AUL-18-22	119.0	0.20	
AUL-18-22	125.0	0.19	

RQD

BHID	From	To	Recovery	RQD	Comments
AUL-18-21	51	53	2	1.3	
AUL-18-21	53.0	56.0	3.0	2.2	
AUL-18-21	56.0	59.0	2.9	2.8	
AUL-18-21	59.0	62.0	3.0	2.8	
AUL-18-21	62.0	65.0	3.0	2.1	
AUL-18-21	65.0	68.0	2.9	2.4	
AUL-18-21	68.0	71.0	3.0	2.6	
AUL-18-21	71.0	74.0	3.0	2.6	
AUL-18-21	74.0	77.0	2.9	2.1	
AUL-18-21	77.0	80.0	2.9	2.2	
AUL-18-21	80.0	83.0	2.9	1.6	
AUL-18-21	83.0	86.0	2.9	2.4	
AUL-18-21	86.0	89.0	3.0	2.2	
AUL-18-21	89.0	92.0	2.9	2.0	
AUL-18-21	92.0	95.0	3.0	2.6	
AUL-18-21	95.0	98.0	3.0	2.8	
AUL-18-21	98.0	101.0	3.0	2.7	
AUL-18-21	101.0	104.0	2.9	2.4	
AUL-18-21	104.0	107.0	3.0	2.5	
AUL-18-21	107.0	110.0	3.0	1.6	
AUL-18-21	110.0	113.0	3.0	1.5	
AUL-18-21	113.0	116.0	3.0	2.4	
AUL-18-21	116.0	119.0	3.0	2.6	
AUL-18-21	119.0	122.0	3.0	2.8	
AUL-18-21	122.0	125.0	3.0	2.5	

Reflex

BHID	Depth	Az	Az Correct	Dip	Mag Field	Use Az	Use Dip	Comments
AUL-18-22			180	-50				As spotted
AUL-18-22	62.0	191.1	178.1	-48.9	5611.0	Y	Y	
AUL-18-22	113.0	197.1	184.1	-47.9	5581.0	Y	Y	

Samples

BHID	Sample	From	To	Width	Stand/blank	QV %	Py%	Po%	Arsen Sphalerite	Hem	VG	other	wgt	au
AUL-18-22	1649784	48.0	49.5	1.5									2.67	0.852
AUL-18-22	1649785	49.5	51.0	1.5			5	1					2.04	0.774
AUL-18-22	1649786	51.0	52.5	1.5									1.97	0.487
AUL-18-22	1649787	52.5	53.5	1.0			5	1					1.79	0.806
AUL-18-22	1649788	53.5	54.5	1.0			20	10					2.64	1.438
AUL-18-22	1649789	54.5	55.5	1.0			10	3					2.26	2.584
AUL-18-22	1649790	55.5	56.5	1.0			3	1					1.95	0.334
AUL-18-22	1649791				blank								0.14	0.007
AUL-18-22	1649792	56.5	57.5	1.0			1	1					2.31	0.049
AUL-18-22	1649793	57.5	58.5	1.0			10	3					2.53	0.378
AUL-18-22	1649794	58.5	59.5	1.0			20	3					2.28	0.212
AUL-18-22	1649795	59.5	60.5	1.0			5	1					2.16	0.21
AUL-18-22	1649796	60.5	61.5	1.0				1					2.21	0.39
AUL-18-22	1649797					216							0.11	6.635
AUL-18-22	1649798	61.5	62.5	1.0			15	2					2.38	0.503
AUL-18-22	1649799	62.5	63.5	1.0			80	15	3				2.11	1.928
AUL-18-22	1649800	63.5	64.5	1.0			90	10	3				2.47	2.381
AUL-18-22	1649801	64.5	65.5	1.0			80	10	3				2.4	2.756
AUL-18-22	1649802	65.5	66.5	1.0			100	20	5				2.02	3.11
AUL-18-22	1649803	66.5	67.5	1.0			100	10	5				2.69	2.775
AUL-18-22	1649804	67.5	68.5	1.0			100	5	1				1.5	0.368
AUL-18-22	1649805	68.5	69.5	1.0			100	3	1				1.87	0.356
AUL-18-22	1649806					217							0.11	6.618
AUL-18-22	1649807				blank								0.13	0.007
AUL-18-22	1649808	69.5	70.5	1.0			100	5	1				2.25	0.257
AUL-18-22	1649809	70.5	71.4	0.9			5	1					2.2	<0.005
AUL-18-22	1649810	71.4	72.5	1.1				1					2.78	0.021
AUL-18-22	1649811	72.5	73.5	1.0			3	5					1.73	0.031
AUL-18-22	1649812	73.5	74.5	1.0									1.51	0.131
AUL-18-22	1649813	74.5	75.5	1.0									2.32	0.06
AUL-18-22	1649814	75.5	76.5	1.0									2.67	0.044
AUL-18-22	1649815	76.5	77.5	1.0									1.59	0.071
AUL-18-22	1649816	77.5	78.5	1.0									2.04	0.011
AUL-18-22	1649817	78.5	79.5	1.0									2.07	0.017

Header

DDH ID	AUL-18-23					
	Claim #	East	North	Az	Dip	EOH (m) (Nad 83)
Location	3019086	592350	5483130	180	-65	152
Purpose	Test Mikwam Zone					
Start date	Sep 21 2018					
End date	Sep 22 2018					
Drill Contractor	Norex Drilling					
Logged By	T.Keast					
Comments	Casing left in hole					

Description

BHID	From	To	Litho	Comment
AUL-18-23	0	45	CAS	Casing through overburden
AUL-18-23	45	67.6	IFchl	<p>Iron Formation Green Chloritic groundmass. Distinct banding/bedding with fine dark magnetite laminations and bands with buff chert beds. Bands/beds brecciated. Distinct magnetite bands not continuous but out in green groundmass.</p> <p>60.5 distinct tight folded IF</p> <p>61.6-67.6 Buff light cherty interval, very minor magnetite bands. Local brecciated, tightly folded.</p> <p>1-3% white qtz veins</p>
AUL-18-23	67.6	94	MINZON	<p>Mineralized Zone - Abrupt beginning of 20% py in patches and disseminations with qtz veins and brecciated veins.</p> <p>67.6-70.5 15-20% py, 1% Arseno.</p> <p>70.5 - 83.5 Strong foliation 0-10 deg to CA with brecciated veins and altered wall rock fragments.</p> <p>3-5% pyrite fine dissem and 4mm cubes. Veins 5-10% brecciated.</p> <p>83.5-94.0 Strong py and Arseno 15-20% py, 1-3% arseno. Veins brecciated. Local 5cm patches of Arsenopyrite strong conductor.</p>
AUL-18-23	94.0	152.0	ARGgry	<p>Argillite Grey - Strongly foliated, original lithology not readily identified. Faint remnent banding possible grey argillite bands, strong structural foliation overprint. Down unit banding more prevalent. Variation in core angles.</p>

Mineralization

BHID	From	To	Qtz Veins %	Py %	Po %	Arseno %	Other	Comments	Conductors (tested with ohmeter)
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Structure

BHID	Depth	Deg to CA	Comment	Comment
AUL-18-23	47.0	30 fol		Banding/Bedding
AUL-18-23	51.0	15 fol		Banding/Bedding
AUL-18-23	61.0	30 fol		Banding/Bedding
AUL-18-23	67.5	35 fol		
AUL-18-23	72.0	5 fol		Banding/Bedding
AUL-18-23	78.0	5 fol		
AUL-18-23	83.0	5 fol		Banding/Bedding
AUL-18-23	96.0	25 fol		
AUL-18-23	103.0	35 fol		
AUL-18-23	113.0	20 fol		Banding/Bedding
AUL-18-23	124.0	35 fol		Banding/Bedding
AUL-18-23	134.0	5 fol		Banding/Bedding
AUL-18-23	152.0	30 fol		Banding/Bedding

MagSuscept

BHID	Depth	MS	<i>Terraplus KT-5 Magnetic Susceptibility Meter</i>
AUL-18-23	45.0	31.90	
AUL-18-23	48.0	56.80	
AUL-18-23	50.0	60.80	
AUL-18-23	53.0	805.00	
AUL-18-23	57.0	42.00	
AUL-18-23	60.5	444.00	
AUL-18-23	62.0	137.00	
AUL-18-23	64.3	225.00	
AUL-18-23	67.0	1.80	
AUL-18-23	68.0	0.96	
AUL-18-23	70.0	0.53	
AUL-18-23	72.0	0.34	
AUL-18-23	76.0	0.86	
AUL-18-23	79.0	0.23	
AUL-18-23	82.0	0.54	
AUL-18-23	84.0	0.42	
AUL-18-23	86.0	0.22	
AUL-18-23	87.5	0.32	
AUL-18-23	89.5	0.24	
AUL-18-23	92.0	0.13	
AUL-18-23	94.5	1.34	
AUL-18-23	95.0	4.34	
AUL-18-23	96.0	2.55	
AUL-18-23	99.0	0.44	
AUL-18-23	102.0	0.03	
AUL-18-23	106.0	0.44	
AUL-18-23	110.0	0.12	
AUL-18-23	113.0	0.09	
AUL-18-23	117.5	1.11	
AUL-18-23	123.0	0.13	
AUL-18-23	134.0	1.01	
AUL-18-23	144.0	0.09	
AUL-18-23	152.0	0.10	

RQD

BHID	From	To	Recovery	RQD	Comments
AUL-18-23	47	50	2.9	2.4	
AUL-18-23	50.0	53.0	3.0	2.2	
AUL-18-23	53.0	56.0	3.0	2.3	
AUL-18-23	56.0	59.0	2.7	1.6	
AUL-18-23	59.0	62.0	3.0	2.3	
AUL-18-23	62.0	65.0	3.0	1.4	
AUL-18-23	65.0	68.0	3.0	1.8	
AUL-18-23	68.0	71.0	2.9	2.7	
AUL-18-23	71.0	74.0	3.0	2.6	
AUL-18-23	74.0	77.0	3.0	2.6	
AUL-18-23	77.0	80.0	2.9	2.9	
AUL-18-23	80.0	83.0	3.0	2.5	
AUL-18-23	83.0	86.0	3.0	2.8	
AUL-18-23	86.0	89.0	3.0	2.5	
AUL-18-23	89.0	92.0	3.0	2.0	
AUL-18-23	92.0	95.0	2.9	2.7	
AUL-18-23	95.0	98.0	2.9	2.0	
AUL-18-23	98.0	101.0	3.0	2.5	
AUL-18-23	101.0	104.0	2.9	2.4	
AUL-18-23	104.0	107.0	3.0	2.5	
AUL-18-23	107.0	110.0	3.0	2.7	
AUL-18-23	110.0	113.0	3.0	2.0	
AUL-18-23	113.0	116.0	3.0	2.8	
AUL-18-23	116.0	119.0	3.0	2.8	
AUL-18-23	119.0	122.0	2.9	2.6	
AUL-18-23	122.0	125.0	3.0	2.9	
AUL-18-23	125.0	128.0	3.0	2.7	
AUL-18-23	128.0	131.0	3.0	2.4	
AUL-18-23	131.0	134.0	3.0	2.9	
AUL-18-23	134.0	137.0	3.0	2.3	
AUL-18-23	137.0	140.0	3.0	2.5	
AUL-18-23	140.0	143.0	2.9	2.2	
AUL-18-23	143.0	146.0	3.0	2.8	
AUL-18-23	146.0	149.0	2.9	2.7	
AUL-18-23	149.0	152.0	3.0	2.7	

Reflex

BHID	Depth	Az	Az Correct	Dip	Mag Field	Use Az	Use Dip	Comments
AUL-18-23	0	180	180	-65				As spotted
AUL-18-23	56.0	175.8	162.8	-65.1	4981.0	N	Y	
AUL-18-23	104.0	196.1	183.1	-65.3	5541.0	Y	Y	
AUL-18-23	152.0	200.3	187.3	-65.4	5583.0	Y	Y	

Samples

BHID	Sample	From	To	Width	Stand/blank	QV %	Py%	Po%	Arsen Sphalerite	Hem	VG	other	wgt	au
AUL-18-23	1649543	60.0	61.0	1.0									2.48	0.029
AUL-18-23	1649544	61.0	62.0	1.0									2.79	0.008
AUL-18-23	1649545	62.0	63.0	1.0			5						2.44	0.012
AUL-18-23	1649546	63.0	64.0	1.0			1						2.49	0.081
AUL-18-23	1649547	64.0	65.0	1.0									2.67	0.016
AUL-18-23	1649548	65.0	66.0	1.0			3						2.09	0.069
AUL-18-23	1649549	66.0	67.0	1.0			0						1.52	0.233
AUL-18-23	1649550	67.0	67.6	0.6			5						2.37	0.124
AUL-18-23	1649551	67.6	68.5	0.9			40	10	1				2.16	0.354
AUL-18-23	1649552				216								0.06	6.764
AUL-18-23	1649553	68.5	69.5	1.0			75	15	3				2.54	1.663
AUL-18-23	1649554	69.5	70.5	1.0			80	15	5				2.98	2.672
AUL-18-23	1649555				blank								0.11	<0.005
AUL-18-23	1649556	70.5	71.5	1.0			50	3					1.37	0.148
AUL-18-23	1649557	71.5	72.5	1.0			10	2					2.16	0.162
AUL-18-23	1649558	72.5	73.5	1.0			5	2					2.49	0.087
AUL-18-23	1649559	73.5	74.5	1.0			5	2					2.17	0.147
AUL-18-23	1649560	74.5	75.5	1.0			5	2					2.13	0.089
AUL-18-23	1649561	75.5	76.5	1.0			5	2					2.36	0.122
AUL-18-23	1649562	76.5	77.5	1.0			5	2					2.3	0.116
AUL-18-23	1649563	77.5	78.5	1.0			5	2					2.66	0.18
AUL-18-23	1649564				217								0.07	0.335
AUL-18-23	1649565	78.5	79.5	1.0			5	2					2.14	0.263
AUL-18-23	1649566	79.5	80.5	1.0			5	2					2.37	0.185
AUL-18-23	1649567	80.5	81.5	1.0			5	2					2.05	0.19
AUL-18-23	1649568	81.5	82.5	1.0			5	2					2.39	0.234
AUL-18-23	1649569	82.5	83.5	1.0			5	3					2.63	0.426
AUL-18-23	1649570	83.5	84.5	1.0			75	5	2				2.44	1.007
AUL-18-23	1649571	84.5	85.5	1.0			75	20	5				2.71	8.778
AUL-18-23	1649572	85.5	86.5	1.0			50	25	5				2.69	8.319
AUL-18-23	1649573	86.5	87.5	1.0			75	20	5				2.7	8.603
AUL-18-23	1649574	87.5	88.5	1.0			50	25	5				2.48	6.787
AUL-18-23	1649575				216								0.05	6.808
AUL-18-23	1649576	88.5	89.5	1.0			50	25	5				2.76	8.696
AUL-18-23	1649577	89.5	90.5	1.0			50	15	2				2.34	5.953
AUL-18-23	1649578	90.5	91.5	1.0			80	10	2				2.58	1.546
AUL-18-23	1649579	91.5	92.5	1.0			90	5					2.51	4.414
AUL-18-23	1649580	92.5	93.5	1.0			90	3					2.13	1.714
AUL-18-23	1649581	93.5	94.0	0.5			75	3					1.17	0.164
AUL-18-23	1649582				blank								0.19	0.007
AUL-18-23	1649583	94.0	95.0	1.0			5	1					2.17	0.483
AUL-18-23	1649584	95.0	96.0	1.0				2					2.33	0.041

Samples

AUL-18-23	1649585	96.0	97.0	1.0	2	1	1.82	0.018
AUL-18-23	1649586	97.0	98.0	1.0	2	1	2.52	0.013
AUL-18-23	1649587	98.0	99.0	1.0		1	2.14	0.011
AUL-18-23	1649588	99.0	100.0	1.0	1	1	2.14	0.007
AUL-18-23	1649589	100.0	101.0	1.0		0.25	2.14	0.005
AUL-18-23	1649590	101.0	102.0	1.0			2.22	0.01
AUL-18-23	1649591	102.0	103.0	1.0			2.01	0.009
AUL-18-23	1649592	103.0	104.0	1.0			2.42	0.008
AUL-18-23	1649593	104.0	105.0	1.0			1.8	<0.005

Header

DDH ID	AUL-18-24					
	Claim #	East	North	Az	Dip	EOH (m) (Nad 83)
Location	3019086	592350	5483230	180	-55	251
Purpose	Test Mikwam Zone					
Start date	Sep 22 2018					
End date	Sep 24 2018					
Drill Contractor	Norex Drilling					
Logged By	T.Keast					
Comments	Casing left in hole					

Description

BHID	From	To	Litho	Comment
AUL-18-24	0	51	CAS	Casing through overburden
AUL-18-24	51	134.7	ARGgry	Argillite Grey - Darker grey, strongly foliated, well banded/bedded with mm to cm wide band. scattered py cubes up to 5mm. Local small scale folds 111.0-128.0 Foliation increasing, wide spaced grey qtz veins 3-5% py.
AUL-18-24	134.7	139.5	IFchlor	Iron Formation green chloritic groundmass. Strong foliation and small scale folding with distinct bands and beds mm to cm size. Black magnetite beds cm wide.
AUL-18-24	139.5	160.0	ARGgry	Argillite Grey - Darker grey, strongly foliated, well banded/bedded with mm to cm wide band. scattered py cubes up to 5mm. Local small scale folds
AUL-18-24	160.0	175.0	ARGshd	Argillite Grey Sheared - Strong foliation within argillite with scattered quartz veins and vein breccia over metre long intervals. Veins have 5-10% py, low core angles,
AUL-18-24	175	203	MINZON	Mineralized Zone- Grey-white quartz veins and vein breccia with altered wall rock xenoliths. Local py concentrations up to 20%. Low core angles of fault breccia. Wall rock xenoliths bleached out light buff angular. 175.0 - 186.5 75% quartz vein and vein breccia. 10-15% py rare arseno. 186.5-189.2 Weak brecciated section, argillite wallrock with weak alteration 1-2% qtz veins 189.2-193.0 Brecciated argillite with 10-15% qtz veins.

Description

193.0-194.5 Weakly brecciated argillite 3-5% qtz veins.

194.5 - 197.0 Strong brecciation, 25% py 3% Arseno

197.0-198.5 75% quartz veins brecciated with 10-15% py

198.5-203.0 Weakly brecciated interval 1-3% quartz veins.

AUL-18-24	203	207.5	BLCHfw	Bleached Footwall - Original lithology not discerned. Light buff, moderately foliated with qtz sericite matrix and distinct dark grey quartz grains 3mm round.
AUL-18-24	207.5	250	ARGgry	Argillite Grey - Light grey strong foliation banded alternating bands/beds.
AUL-18-24	250	251	CONG	Conglomerate - light color distinct clasts, foliated in granular groundmass.

Mineralization

BHID	From	To	Qtz Veins %	Py %	Po %	Arseno %	Other	Comments	Conductors (tested with ohmeter)
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Structure

BHID	Depth	Deg to CA	Comment	Comment
AUL-18-24	56.0	25 fol		Banding/Bedding
AUL-18-24	64.0	35 fol		Banding/Bedding
AUL-18-24	76.0	50 fol		Banding/Bedding
AUL-18-24	92.0	45 fol		Banding/Bedding
AUL-18-24	109.0	10 fol		Banding/Bedding
AUL-18-24	120.0	45 fol		Banding/Bedding
AUL-18-24	133.0	35 fol		Banding/Bedding
AUL-18-24	135.5	55 fol		Banding/Bedding
AUL-18-24	141.0	40 fol		Banding/Bedding
AUL-18-24	147.0	30 fol		Banding/Bedding
AUL-18-24	158.0	50 fol		Banding/Bedding
AUL-18-24	162.0	30 fol		Shearing
AUL-18-24	165.0	5 fol		fault breccia
AUL-18-24	168.0	10 fol		Shearing
AUL-18-24	174.0	25 fol		Banding/Bedding
AUL-18-24	178.0	25 fol		Shearing
AUL-18-24	183.5	10 fol		Shearing
AUL-18-24	188.0	35 fol		Shearing
AUL-18-24	192.0	20 fol		fault breccia
AUL-18-24	198.0	15 fol		fault breccia
AUL-18-24	201.0	25 fol		Shearing
AUL-18-24	210.0	35 fol		Banding/Bedding
AUL-18-24	218.0	40 fol		Banding/Bedding
AUL-18-24	227.0	30 fol		Banding/Bedding
AUL-18-24	237.0	30 fol		Banding/Bedding
AUL-18-24	250.0	35 fol		clasts

MagSuscept

BHID	Depth	MS	<i>Terraplus KT-5 Magnetic Susceptibility Meter</i>
AUL-18-24	53.0	0.12	
AUL-18-24	57.0	0.37	
AUL-18-24	62.0	0.26	
AUL-18-24	69.0	0.04	
AUL-18-24	73.0	0.01	
AUL-18-24	78.5	0.06	
AUL-18-24	80.0	1.78	
AUL-18-24	82.0	0.17	
AUL-18-24	90.0	0.60	
AUL-18-24	93.0	0.27	
AUL-18-24	99.0	0.39	
AUL-18-24	107.0	0.17	
AUL-18-24	115.0	0.07	
AUL-18-24	122.0	0.62	
AUL-18-24	133.0	0.25	
AUL-18-24	134.0	0.87	
AUL-18-24	135.5	229.00	
AUL-18-24	137.0	1.37	
AUL-18-24	138.0	155.00	
AUL-18-24	139.0	2.88	
AUL-18-24	140.0	1.09	
AUL-18-24	142.0	0.80	
AUL-18-24	148.0	0.16	
AUL-18-24	154.0	0.10	
AUL-18-24	158.0	1.27	
AUL-18-24	160.5	2.30	
AUL-18-24	162.5	1.80	
AUL-18-24	165.5	0.28	
AUL-18-24	170.0	0.13	
AUL-18-24	173.0	2.37	
AUL-18-24	177.0	0.63	
AUL-18-24	181.0	0.38	
AUL-18-24	184.0	0.53	
AUL-18-24	185.5	5.35	
AUL-18-24	188.5	6.58	
AUL-18-24	192.0	1.59	
AUL-18-24	197.0	0.41	
AUL-18-24	200.0	0.84	
AUL-18-24	205.0	1.62	
AUL-18-24	208.0	0.50	
AUL-18-24	214.0	0.46	
AUL-18-24	221.0	0.11	
AUL-18-24	226.0	0.10	
AUL-18-24	235.0	0.11	
AUL-18-24	251.0	0.19	

RQD

BHID	From	To	Recovery	RQD	Comments
AUL-18-24	53	56	3	0.8	
AUL-18-24	56.0	59.0	3.0	2.0	
AUL-18-24	59.0	62.0	3.0	1.7	
AUL-18-24	62.0	65.0	3.0	1.9	
AUL-18-24	65.0	68.0	2.9	2.0	
AUL-18-24	68.0	71.0	3.0	1.3	
AUL-18-24	71.0	74.0	3.0	1.3	
AUL-18-24	74.0	77.0	3.0	1.5	
AUL-18-24	77.0	80.0	3.0	2.4	
AUL-18-24	80.0	83.0	3.0	2.5	
AUL-18-24	83.0	86.0	3.0	2.7	
AUL-18-24	86.0	89.0	3.0	2.5	
AUL-18-24	89.0	92.0	3.0	2.7	
AUL-18-24	92.0	95.0	3.0	2.4	
AUL-18-24	95.0	98.0	3.0	2.7	
AUL-18-24	98.0	101.0	3.0	2.5	
AUL-18-24	101.0	104.0	3.0	2.6	
AUL-18-24	104.0	107.0	3.0	1.3	
AUL-18-24	107.0	110.0	3.0	2.6	
AUL-18-24	110.0	113.0	3.0	2.2	
AUL-18-24	113.0	116.0	3.0	1.9	
AUL-18-24	116.0	119.0	3.0	2.3	
AUL-18-24	119.0	122.0	3.0	2.8	
AUL-18-24	122.0	125.0	3.0	3.0	
AUL-18-24	125.0	128.0	3.0	2.5	
AUL-18-24	128.0	131.0	3.0	2.5	
AUL-18-24	131.0	134.0	3.0	2.8	
AUL-18-24	134.0	137.0	2.9	2.8	
AUL-18-24	137.0	140.0	3.0	2.5	
AUL-18-24	140.0	143.0	3.0	2.6	
AUL-18-24	143.0	146.0	3.0	2.8	
AUL-18-24	146.0	149.0	2.9	2.8	
AUL-18-24	149.0	152.0	3.0	2.7	
AUL-18-24	152.0	155.0	3.0	2.6	
AUL-18-24	155.0	158.0	3.0	2.4	
AUL-18-24	158.0	161.0	3.0	2.5	
AUL-18-24	161.0	164.0	3.0	2.7	
AUL-18-24	164.0	167.0	3.0	3.0	
AUL-18-24	167.0	170.0	3.0	3.0	
AUL-18-24	170.0	173.0	3.0	2.6	
AUL-18-24	173.0	176.0	3.0	2.9	
AUL-18-24	176.0	179.0	3.0	2.8	
AUL-18-24	179.0	182.0	3.0	2.7	
AUL-18-24	182.0	185.0	2.9	2.6	
AUL-18-24	185.0	188.0	3.0	2.8	
AUL-18-24	188.0	191.0	2.9	2.7	

RQD

AUL-18-24	191.0	194.0	2.9	2.8
AUL-18-24	194.0	197.0	3.0	2.9
AUL-18-24	197.0	200.0	3.0	2.9
AUL-18-24	200.0	203.0	3.0	2.5
AUL-18-24	203.0	206.0	3.0	2.7
AUL-18-24	206.0	209.0	3.0	2.6
AUL-18-24	209.0	212.0	3.0	2.7
AUL-18-24	212.0	215.0	3.0	2.1
AUL-18-24	215.0	218.0	3.0	2.8
AUL-18-24	218.0	221.0	3.0	2.5
AUL-18-24	221.0	224.0	3.0	2.8
AUL-18-24	224.0	227.0	3.0	2.7
AUL-18-24	227.0	230.0	3.0	2.8
AUL-18-24	230.0	233.0	3.0	2.8
AUL-18-24	233.0	236.0	3.0	2.8
AUL-18-24	236.0	239.0	3.0	2.4
AUL-18-24	239.0	242.0	3.0	2.5
AUL-18-24	242.0	245.0	3.0	2.7
AUL-18-24	245.0	248.0	3.0	2.7
AUL-18-24	248.0	251.0	3.0	2.3

Reflex

BHID	Depth	Az	Az Correct	Dip	Mag Field	Use Az	Use Dip	Comments
AUL-18-24	0	180	180	-55		Y	Y	As spotted
AUL-18-24	62.0	187.9	174.9	-54.8	5661.0	Y	Y	
AUL-18-24	113.0	188.4	175.4	-53.2	5608.0	Y	Y	
AUL-18-24	164.0	188.1	175.1	-51.9	5831.0	Y	Y	
AUL-18-24	215.0	194.7	181.7	-50.8	5587.0	Y	Y	

Samples

BHID	Sample	From	To	Width	Stand/blank	QV %	Py%	Po%	Arsen Sphalerite	Hem	VG	other	wgt	au
AUL-18-24	1649818	110.0	111.0	1.0									2.34	0.011
AUL-18-24	1649819	111.0	112.0	1.0									2.03	0.023
AUL-18-24	1649820	112.0	113.0	1.0									2.3	0.037
AUL-18-24	1649821	113.0	114.0	1.0									2.51	0.087
AUL-18-24	1649822	114.0	115.0	1.0									1.79	0.064
AUL-18-24	1649823	115.0	116.0	1.0									2.28	0.125
AUL-18-24	1649824	116.0	117.0	1.0									2.18	0.055
AUL-18-24	1649825	117.0	118.0	1.0									2.38	0.086
AUL-18-24	1649826	118.0	119.0	1.0									2.52	0.009
AUL-18-24	1649827				Blank								0.14	<0.005
AUL-18-24	1649828	119.0	120.0	1.0									2.17	<0.005
AUL-18-24	1649829	120.0	121.0	1.0									2.22	0.075
AUL-18-24	1649830	121.0	122.0	1.0									2.25	0.011
AUL-18-24	1649831	122.0	123.0	1.0									2.33	0.006
AUL-18-24	1649832					216							0.06	6.676
AUL-18-24	1649833	123.0	124.0	1.0									1.79	0.005
AUL-18-24	1649834	124.0	125.0	1.0									2.34	<0.005
AUL-18-24	1649835	125.0	126.0	1.0									2.28	0.006
AUL-18-24	1649836	126.0	127.0	1.0									2.14	<0.005
AUL-18-24	1649837	127.0	128.0	1.0									2.34	<0.005
AUL-18-24	1649838	128.0	129.0	1.0									2.62	<0.005
AUL-18-24	1649839	158.0	159.0	1.0			2	1					2.25	0.005
AUL-18-24	1649840	159.0	160.0	1.0			1	1					2.01	0.009
AUL-18-24	1649841	160.0	161.0	1.0			5	1					2.43	0.017
AUL-18-24	1649842	161.0	162.0	1.0			15	1					2.09	0.027
AUL-18-24	1649843	162.0	163.0	1.0			40	5					2.25	0.098
AUL-18-24	1649844	163.0	164.0	1.0			75	10					2.38	0.22
AUL-18-24	1649845				Blank								0.13	<0.005
AUL-18-24	1649846	164.0	165.0	1.0			25	3					2.36	0.163
AUL-18-24	1649847	165.0	166.0	1.0			75	15					2.06	0.608
AUL-18-24	1649848	166.0	167.0	1.0			30	10					2.32	0.992
AUL-18-24	1649849					217							0.07	0.323
AUL-18-24	1649850	167.0	168.0	1.0			50	10					2.21	0.44
AUL-18-24	1649851	168.0	169.0	1.0			20	5					2.71	0.424
AUL-18-24	1649852	169.0	170.0	1.0			5	2					2.03	0.736
AUL-18-24	1649853	170.0	171.0	1.0				1					2.27	0.35
AUL-18-24	1649854	171.0	172.0	1.0			5						2.46	0.036
AUL-18-24	1649855	172.0	173.0	1.0									2.13	0.019
AUL-18-24	1649856	173.0	174.0	1.0									1.97	0.014
AUL-18-24	1649857	174.0	175.0	1.0			15	5					2.24	0.024
AUL-18-24	1649858	175.0	176.0	1.0			50	10					2.28	0.422
AUL-18-24	1649859	176.0	177.0	1.0			75	20					2.58	1.732

Samples

AUL-18-24	1649860				216				0.06	6.75
AUL-18-24	1649861	177.0	178.0	1.0		50	20	3	2.61	1.039
AUL-18-24	1649862	178.0	179.0	1.0		50	20	3	2.25	0.657
AUL-18-24	1649863	179.0	180.0	1.0		25	20	2	2.56	0.856
AUL-18-24	1649864	180.0	181.0	1.0		50	25	3	2.15	4.444
AUL-18-24	1649865	181.0	182.0	1.0		50	25	3	2.37	6.515
AUL-18-24	1649866	182.0	183.0	1.0		75	15	3	2.74	>10.000
AUL-18-24	1649867				blank				0.13	0.04
AUL-18-24	1649868	183.0	184.0	1.0		75	15	2	2.4	2.378
AUL-18-24	1649869	184.0	185.0	1.0		50	15	1	2.62	0.791
AUL-18-24	1649870	185.0	186.5	1.5		50	10		3.04	0.109
AUL-18-24	1649871	186.5	187.5	1.0		5	1		2.16	0.163
AUL-18-24	1649872				217				0.07	0.344
AUL-18-24	1649873	187.5	188.5	1.0		10	3		2.57	0.161
AUL-18-24	1649874	188.5	189.5	1.0		15	5		2.9	0.135
AUL-18-24	1649875	189.5	190.5	1.0		10	3		2.59	0.195
AUL-18-24	1649876	190.5	191.5	1.0		3	2		2.08	0.381
AUL-18-24	1649877	191.5	192.5	1.0		25	3		2.28	0.116
AUL-18-24	1649878	192.5	193.5	1.0		15	3		2.13	0.185
AUL-18-24	1649879	193.5	194.5	1.0		15	5		2.34	0.257
AUL-18-24	1649880	194.5	195.5	1.0		15	10		2.36	1.093
AUL-18-24	1649881				Blank				0.15	<0.005
AUL-18-24	1649882	195.5	196.5	1.0		20	15		2.71	3.001
AUL-18-24	1649883	196.5	197.5	1.0		75	10	3	2.54	1.825
AUL-18-24	1649884	197.5	198.5	1.0		75	10	3	1.95	0.223
AUL-18-24	1649885				216				0.05	6.711
AUL-18-24	1649886	198.5	199.5	1.0		5	2		2.48	0.451
AUL-18-24	1649887	199.5	200.5	1.0		3	1		2.08	1.225
AUL-18-24	1649888	200.5	201.5	1.0		1	1		2.3	0.881
AUL-18-24	1649889	201.5	203.0	1.5		1	1		3.53	0.143
AUL-18-24	1649890	203.0	204.0	1.0		3	1		2.35	0.314
AUL-18-24	1649891	204.0	205.0	1.0		3	1		2.1	0.096
AUL-18-24	1649892	205.0	206.0	1.0		3	1		2.21	0.025
AUL-18-24	1649893	206.0	207.5	1.5		1	1		3.55	0.029
AUL-18-24	1649894	207.5	208.5	1.0					1.95	<0.005
AUL-18-24	1649895	208.5	209.5	1.0					2.48	<0.005
AUL-18-24	1649896	209.5	210.5	1.0					2.32	<0.005

Header

DDH ID	AUL-18-25					
	Claim #	East	North	Az	Dip	EOH (m) (Nad 83)
Location	3019086	592350	5483230	180	-65	302
Purpose	Test Mikwam Zone					
Start date	Sep 24 2018					
End date	Sep 26 2018					
Drill Contractor	Norex Drilling					
Logged By	T.Keast					
Comments	Casing left in hole					

Description

BHID	From	To	Litho	Comment
AUL-18-25	0	45	CAS	Casing through overburden
AUL-18-25	45	80.4	ARGgry	Argillite Grey - Darker grey, strongly foliated, well banded/bedded with mm to cm wide band. scattered py cubes up to 5mm. Local small scale folds
AUL-18-25	80.4	94.1	ARGblk	Argillite Black - Fine grained moderate foliation with dark fine sooty feel. Well banded/laminated. 1-3% fine pyrite.
AUL-18-25	94.1	123.8	ARGgry	Argillite Grey - Darker grey, strongly foliated, well banded/bedded with mm to cm wide band. scattered py cubes up to 5mm. Local small scale folds
AUL-18-25	123.8	140.5	ARGblk	Argillite Black - Fine grained moderate foliation with dark fine sooty feel. Well banded/laminated. 1-3% fine pyrite.
AUL-18-25	140.5	163.2	ARGgry	Argillite Grey - Darker grey, strongly foliated, well banded/bedded with mm to cm wide band. scattered py cubes up to 5mm. Local small scale folds
AUL-18-25	163.2	185.4	IFchlor	Iron Formation green chloritic groundmass. Strong foliation and small scale folding with distinct bands and beds mm to cm size. Black magnetite beds cm wide. 163.2 -173.0 Rare widely spaced dark black beds resemble magnetite, non magnetic, weakly conductive 173.0-184.5 Distinct magnetite bands spaced throughout sequence low core angles.
AUL-18-25	185.4	197	ARGgry	Argillite Grey - Darker grey, strongly foliated, well banded/bedded with mm to cm wide band. scattered py cubes up to 5mm.

Description

			Local small scale folds
AUL-18-25	197	217 ARGshd	Argillite Grey Sheared - Strong foliation within argillite with scattered quartz veins and vein breccia over metre long intervals. 3-5% qtz veins 1% py, low core angles,
AUL-18-25	217	229 ARGgry	Argillite Grey - Darker grey, strongly foliated, well banded/bedded with mm to cm wide band.
AUL-18-25	229	232.1 ARGshd	Argillite Grey Sheared - Strong foliation within argillite with scattered quartz veins and vein breccia over metre long intervals. 3-5% qtz veins 1% py, low core angles,
AUL-18-25	232.1	235 MINZON	Mineralized Zone- Weak poorly developed zone, 50% grey-white quartz veins and vein breccia with altered wall rock xenoliths. Local py concentrations up to 10% over 25 cm. Low core angles of fault breccia. 234.0-235.0 fault breccia, angular clasts.
AUL-18-25	235	242 BLCHfw	Bleached Footwall - Original lithology not discerned. Light buff, moderately foliated with qtz sericite matrix and distinct dark grey quartz grains 3mm round. 3-5% qtz veins and brecciated veins, 1% py.
AUL-18-25	242	259 FAULT	Fault - Grey strong foliation, original lithology not discerned with chloritic fault breccia thoroughot. Angular fragments and local fault gouge, carb veinlets. Tr py.
AUL-18-25	259	302 ARGshd	Argillite Grey Sheared- Grey strongly foliated chloritic. Original alternating grey bands/beds faintly preserved, strong foliation banding due to shearing.

Mineralization

BHID	From	To	Qtz Veins %	Py %	Po %	Arseno %	Other	Comments	Conductors (tested with ohmeter)
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Structure

BHID	Depth	Deg to CA	Comment	Comment
AUL-18-25	56.0	40 fol		Banding/bedding
AUL-18-25	69.0	30 fol		Banding/bedding
AUL-18-25	77.0	30 fol		Banding/bedding
AUL-18-25	90.0	35 fol		Banding/bedding
AUL-18-25	106.0	25 fol		shearing
AUL-18-25	122.0	45 fol		Banding/bedding
AUL-18-25	132.0	30 fol		Banding/bedding
AUL-18-25	138.0	0 fol		Banding/bedding
AUL-18-25	142.0	10 fol		local shearing
AUL-18-25	145.0	25 fol		Banding/bedding
AUL-18-25	150.5	20 fol		Banding/bedding
AUL-18-25	155.0	5 fol		Banding/bedding
AUL-18-25	160.0	20 fol		Banding/bedding
AUL-18-25	165.0	20 fol		Banding/bedding
AUL-18-25	169.0	10 fol		Banding/bedding
AUL-18-25	173.0	20 fol		Banding/bedding
AUL-18-25	178.0	10 fol		Banding/bedding
AUL-18-25	186.0	5 fol		Banding/bedding
AUL-18-25	197.0	15 fol		Banding/bedding
AUL-18-25	203.0	20 fol		fault breccia
AUL-18-25	212.0	10 fol		local shearing
AUL-18-25	221.0	20 fol		Banding/bedding
AUL-18-25	226.0	25 fol		Banding/bedding
AUL-18-25	231.0	30 fol		Banding/bedding
AUL-18-25	242.0	30 fol		fault breccia
AUL-18-25	260.0	30 fol		fault breccia
AUL-18-25	280.0	15 fol		shearing
AUL-18-25	297.0	30 fol		Banding/bedding

MagSuscept

BHID	Depth	MS	<i>Terraplus KT-5 Magnetic Susceptibility Meter</i>
AUL-18-25	51.0	0.05	
AUL-18-25	55.0	0.11	
AUL-18-25	60.0	1.88	
AUL-18-25	69.0	0.10	
AUL-18-25	77.0	0.15	
AUL-18-25	85.0	0.05	
AUL-18-25	91.0	0.03	
AUL-18-25	95.0	0.96	
AUL-18-25	101.0	0.09	
AUL-18-25	108.0	0.96	
AUL-18-25	112.0	0.46	
AUL-18-25	119.0	0.12	
AUL-18-25	125.0	0.08	
AUL-18-25	128.0	0.06	
AUL-18-25	134.0	0.02	
AUL-18-25	143.0	1.90	
AUL-18-25	147.0	0.35	
AUL-18-25	149.0	1.23	
AUL-18-25	157.1	1.84	
AUL-18-25	155.0	0.87	
AUL-18-25	158.0	0.25	
AUL-18-25	166.0	0.89	
AUL-18-25	171.0	1.52	
AUL-18-25	173.0	0.65	
AUL-18-25	176.0	298.00	
AUL-18-25	178.0	554.00	
AUL-18-25	179.0	7.63	
AUL-18-25	181.0	60.20	
AUL-18-25	185.0	1.59	
AUL-18-25	188.0	0.50	
AUL-18-25	194.0	1.12	
AUL-18-25	197.0	1.09	
AUL-18-25	199.0	3.16	
AUL-18-25	203.0	1.99	
AUL-18-25	209.0	2.13	
AUL-18-25	213.0	0.50	
AUL-18-25	218.0	0.28	
AUL-18-25	225.0	0.44	
AUL-18-25	231.0	2.54	
AUL-18-25	234.0	0.26	
AUL-18-25	236.0	1.96	
AUL-18-25	239.0	1.64	
AUL-18-25	242.0	0.17	
AUL-18-25	245.0	0.13	
AUL-18-25	253.5	0.12	
AUL-18-25	259.0	0.08	

MagSuscept

AUL-18-25	261.0	0.09
AUL-18-25	268.0	0.01
AUL-18-25	270.0	0.01
AUL-18-25	277.0	0.06
AUL-18-25	280.5	0.12
AUL-18-25	284	0.09
AUL-18-25	291	0.09
AUL-18-25	301	0.09

RQD

BHID	From	To	Recovery	RQD	Comments
AUL-28-25	50	53	2.8	0.47	
AUL-28-25	53.0	56.0	2.8	1.3	
AUL-28-25	56.0	59.0	2.9	1.0	
AUL-28-25	59.0	62.0	3.0	1.9	
AUL-28-25	62.0	65.0	3.0	2.3	
AUL-28-25	65.0	68.0	3.0	1.9	
AUL-28-25	68.0	71.0	3.0	1.6	
AUL-28-25	71.0	74.0	3.0	2.2	
AUL-28-25	74.0	77.0	2.7	1.8	
AUL-28-25	77.0	80.0	3.0	2.7	
AUL-28-25	80.0	83.0	3.0	2.8	
AUL-28-25	83.0	86.0	2.9	2.4	
AUL-28-25	86.0	89.0	2.8	2.6	
AUL-28-25	89.0	92.0	2.9	2.5	
AUL-28-25	92.0	95.0	2.5	1.0	
AUL-28-25	95.0	98.0	3.0	2.7	
AUL-28-25	98.0	101.0	3.0	2.7	
AUL-28-25	101.0	104.0	2.8	2.2	
AUL-28-25	104.0	107.0	2.8	2.4	
AUL-28-25	107.0	110.0	3.0	2.5	
AUL-28-25	110.0	113.0	3.0	2.3	
AUL-28-25	113.0	116.0	2.9	2.5	
AUL-28-25	116.0	119.0	3.0	2.3	
AUL-28-25	119.0	122.0	2.9	2.8	
AUL-28-25	122.0	125.0	2.9	2.8	
AUL-28-25	125.0	128.0	3.0	2.0	
AUL-28-25	128.0	131.0	2.9	2.0	
AUL-28-25	131.0	134.0	2.9	1.9	
AUL-28-25	134.0	137.0	2.8	2.7	
AUL-28-25	137.0	140.0	3.0	2.4	
AUL-28-25	140.0	143.0	3.0	2.7	
AUL-28-25	143.0	146.0	3.0	2.3	
AUL-28-25	146.0	149.0	2.9	2.3	
AUL-28-25	149.0	152.0	3.0	2.6	
AUL-28-25	152.0	155.0	3.0	2.3	
AUL-28-25	155.0	158.0	3.0	2.2	
AUL-28-25	158.0	161.0	3.0	2.8	
AUL-28-25	161.0	164.0	2.9	2.8	
AUL-28-25	164.0	167.0	2.9	2.6	
AUL-28-25	167.0	170.0	2.9	2.5	
AUL-28-25	170.0	173.0	3.0	2.6	
AUL-28-25	173.0	176.0	3.0	2.7	
AUL-28-25	176.0	179.0	3.0	2.8	
AUL-28-25	179.0	182.0	3.0	2.8	
AUL-28-25	182.0	185.0	3.0	2.7	
AUL-28-25	185.0	188.0	3.0	2.6	

RQD

AUL-28-25	188.0	191.0	3.0	3.0
AUL-28-25	191.0	194.0	3.0	2.7
AUL-28-25	194.0	197.0	3.0	2.7
AUL-28-25	197.0	200.0	3.0	2.8
AUL-28-25	200.0	203.0	2.9	2.8
AUL-28-25	203.0	206.0	3.0	2.7
AUL-28-25	206.0	209.0	2.9	2.4
AUL-28-25	209.0	212.0	3.0	2.1
AUL-28-25	212.0	215.0	3.0	2.3
AUL-28-25	215.0	218.0	3.0	2.5
AUL-28-25	218.0	221.0	2.9	2.0
AUL-28-25	221.0	224.0	2.9	2.0
AUL-28-25	224.0	227.0	2.9	2.5
AUL-28-25	227.0	230.0	2.9	2.5
AUL-28-25	230.0	233.0	3.0	2.3
AUL-28-25	233.0	236.0	3.0	2.4
AUL-28-25	236.0	239.0	3.0	2.6
AUL-28-25	239.0	242.0	2.9	2.6
AUL-28-25	242.0	245.0	3.0	2.7
AUL-28-25	245.0	248.0	3.0	2.7
AUL-28-25	248.0	251.0	2.9	1.5
AUL-28-25	251.0	254.0	2.9	1.5
AUL-28-25	254.0	257.0	3.0	1.8
AUL-28-25	257.0	260.0	3.0	2.0
AUL-28-25	260.0	263.0	2.9	2.3
AUL-28-25	263.0	266.0	3.0	2.3
AUL-28-25	266.0	269.0	3.0	2.7
AUL-28-25	269.0	272.0	2.9	2.6
AUL-28-25	272.0	275.0	2.9	2.2
AUL-28-25	275.0	278.0	3.0	2.2
AUL-28-25	278.0	281.0	2.9	1.2
AUL-28-25	281.0	284.0	3.0	1.9
AUL-28-25	284.0	287.0	2.9	2.3
AUL-28-25	287.0	290.0	3.0	1.9
AUL-28-25	290.0	293.0	3.0	1.6
AUL-28-25	293.0	296.0	3.0	2.4
AUL-28-25	296.0	299.0	3.0	1.8
AUL-28-25	299.0	302.0	3.0	2.4

Reflex

BHID	Depth	Az	Az Correct	Dip	Mag Field	Use Az	Use Dip	Comments
AUL-18-25	0	180	180	-65		N	Y	As spotted
AUL-18-25	59.0	185.2	172.2	-64.8	5708.0	Y	Y	
AUL-18-25	110.0	186.8	173.8	-63.3	5669.0	Y	Y	
AUL-18-25	161.0	183.7	170.7	-62.2	5611.0	N	Y	
AUL-18-25	212.0	191.0	178.0	-61.0		Y	Y	Mag field not indicated
AUL-18-25	263.0	194.8	181.8	-59.6	5568.0	Y	Y	
AUL-18-25	302.0	197.1	184.1	-58.8	5561.0	Y	Y	

Samples

BHID	Sample	From	To	Width	Stand/blank	QV %	Py%	Po%	Arsen Sphalerite	Hem	VG	other	Weight	AuPPM
AUL-18-25	1649897	195.0	196.0	1.0									2.43	0.008
AUL-18-25	1649898	196.0	197.0	1.0									1.96	0.011
AUL-18-25	1649899	197.0	198.0	1.0									1.87	0.009
AUL-18-25	1649900	198.0	199.0	1.0									3.02	<0.005
AUL-18-25	1649901	199.0	200.0	1.0			3						2.28	0.009
AUL-18-25	1649902	200.0	201.0	1.0			10						2.12	0.011
AUL-18-25	1649903	201.0	202.0	1.0			3						2.55	0.008
AUL-18-25	1649904	202.0	203.0	1.0			3						3.05	0.01
AUL-18-25	1649905					217							0.07	0.351
AUL-18-25	1649906	203.0	204.0	1.0			5						2.31	0.014
AUL-18-25	1649907	204.0	205.0	1.0									1.8	0.01
AUL-18-25	1649908	205.0	206.0	1.0									2.13	0.008
AUL-18-25	1649909	206.0	207.0	1.0									2.15	0.031
AUL-18-25	1649910	207.0	208.0	1.0									2.61	0.01
AUL-18-25	1649911	208.0	209.0	1.0									2.61	0.032
AUL-18-25	1649912				blank								0.14	<0.005
AUL-18-25	1649913	209.0	210.0	1.0									2.01	0.022
AUL-18-25	1649914	210.0	211.0	1.0									1.65	0.024
AUL-18-25	1649915	211.0	212.0	1.0									2.44	0.015
AUL-18-25	1649916	212.0	213.0	1.0									2.17	0.012
AUL-18-25	1649917	213.0	214.0	1.0									2.25	0.014
AUL-18-25	1649918	214.0	215.0	1.0									1.83	0.03
AUL-18-25	1649919	215.0	216.0	1.0									2.12	0.014
AUL-18-25	1649920	216.0	217.0	1.0									1.96	0.008
AUL-18-25	1649921	217.0	218.0	1.0									2.6	0.009
AUL-18-25	1647986	218.0	219.0	1.0									1.68	0.037
AUL-18-25	1647987	219.0	220.0	1.0									2.21	<0.005
AUL-18-25	1647988	220.0	221.0	1.0									2.02	0.015
AUL-18-25	1647989	221.0	222.0	1.0									1.62	0.01
AUL-18-25	1647990				Blank								0.18	<0.005
AUL-18-25	1647991	222.0	223.0	1.0									2.52	0.016
AUL-18-25	1647992	223.0	224.0	1.0									2.52	0.01
AUL-18-25	1647993	224.0	225.0	1.0									2.41	0.011
AUL-18-25	1647994	225.0	226.0	1.0									2.61	0.006
AUL-18-25	1647995	226.0	227.0	1.0									2.11	0.007
AUL-18-25	1647996	227.0	228.0	1.0									2.18	0.02
AUL-18-25	1649922	228.0	229.0	1.0									2.18	0.052
AUL-18-25	1649923	229.0	230.0	1.0									2.3	0.019
AUL-18-25	1649924	230.0	231.0	1.0									2.41	0.031
AUL-18-25	1649925	231.0	232.1	1.1									2.24	0.113
AUL-18-25	1649926	232.1	233.0	0.9			5	2					2.66	0.864
AUL-18-25	1649927	233.0	234.0	1.0			50	10					2.62	2.31

Samples

AUL-18-25	1649928				216		0.05	>10.000
AUL-18-25	1649929	234.0	235.0	1.0		5	2.36	0.67
AUL-18-25	1649930	235.0	236.0	1.0			2.58	0.672
AUL-18-25	1649931	236.0	237.0	1.0			2.02	0.407
AUL-18-25	1649932	237.0	238.0	1.0			2.08	0.09
AUL-18-25	1649933				blank		0.16	<0.005
AUL-18-25	1649934	238.0	239.0	1.0			2.3	0.041
AUL-18-25	1649935	239.0	240.0	1.0			2.61	0.044
AUL-18-25	1649936	240.0	241.0	1.0			2.31	0.232
AUL-18-25	1649937	241.0	242.0	1.0			2.19	0.034
AUL-18-25	1649938	242.0	243.0	1.0			1.98	0.01
AUL-18-25	1649939	243.0	244.0	1.0			1.89	0.012
AUL-18-25	1649940	244.0	245.0	1.0			2.62	0.022
AUL-18-25	1649941				217		0.07	>10.000
AUL-18-25	1649942	245.0	246.0	1.0			2.71	0.033
AUL-18-25	1649943	246.0	247.0	1.0			2.23	0.006
AUL-18-25	1649944	247.0	248.0	1.0			3.46	0.008
AUL-18-25	1649945	248.0	249.0	1.0			1.54	<0.005
AUL-18-25	1649946	249.0	250.0	1.0			2.03	<0.005
AUL-18-25	1649947	250.0	251.0	1.0			2.26	0.206
AUL-18-25	1649948	251.0	252.0	1.0			2.85	0.007
AUL-18-25	1649949	252.0	253.0	1.0			2.4	0.011
AUL-18-25	1649950	253.0	254.0	1.0			1.97	0.009
AUL-18-25	1649951	254.0	255.0	1.0			1.65	<0.005
AUL-18-25	1649952				blank		0.19	<0.005
AUL-18-25	1649953	255.0	256.0	1.0			2.82	0.005
AUL-18-25	1649954	256.0	257.0	1.0			2.54	0.021
AUL-18-25	1649955	257.0	258.0	1.0			1.18	0.013
AUL-18-25	1649956	258.0	259.0	1.0			2.92	0.008
AUL-18-25	1649957				216		0.07	>10.000
AUL-18-25	1649958	259.0	260.0	1.0			2.59	<0.005
AUL-18-25	1649959	260.0	261.0	1.0			1.77	0.047
AUL-18-25	1649960	261.0	262.0	1.0			2.65	0.01
AUL-18-25	1649961	262.0	263.0	1.0			2.58	<0.005
AUL-18-25	1649962	263.0	264.0	1.0			2.65	<0.005
AUL-18-25	1649963	264.0	265.0	1.0			2.1	<0.005
AUL-18-25	1649964	265.0	266.0	1.0			1.92	<0.005
AUL-18-25	1649965	266.0	267.0	1.0			2.47	0.012
AUL-18-25	1649966	267.0	268.0	1.0			2.05	<0.005
AUL-18-25	1649967	268.0	269.0	1.0			1.69	0.005
AUL-18-25	1649968	269.0	270.0	1.0			2.27	<0.005
AUL-18-25	1649969				blank		0.12	<0.005
AUL-18-25	1649970	270.0	271.0	1.0			2.33	0.048

Samples

AUL-18-25	1649971	271.0	272.0	1.0		2.61	1.263
AUL-18-25	1649972	272.0	273.0	1.0		2.37	0.015
AUL-18-25	1649973				217	0.07	>10.000
AUL-18-25	1649974	273.0	274.0	1.0		1.88	0.009
AUL-18-25	1649975	274.0	275.0	1.0		1.89	0.007
AUL-18-25	1649976	275.0	276.0	1.0		2.33	<0.005
AUL-18-25	1649977	276.0	277.0	1.0		2.11	<0.005
AUL-18-25	1649978	277.0	278.0	1.0		2.22	0.006
AUL-18-25	1649979	278.0	279.0	1.0		1.94	0.005
AUL-18-25	1649980	279.0	280.0	1.0		2.19	0.007
AUL-18-25	1649981	280.0	281.0	1.0		2.52	0.008
AUL-18-25	1649982	281.0	282.0	1.0		2.06	<0.005
AUL-18-25	1649983	282.0	283.0	1.0		2.49	<0.005
AUL-18-25	1649984				blank	0.13	<0.005
AUL-18-25	1649985	283.0	284.0	1.0		2.24	<0.005
AUL-18-25	1649986	284.0	285.0	1.0		2.05	0.008
AUL-18-25	1649987	285.0	286.0	1.0		2.43	<0.005
AUL-18-25	1649988	286.0	287.0	1.0		2.14	0.019
AUL-18-25	1649989	287.0	288.0	1.0		2.35	<0.005

Header

DDH ID	AUL-18-26					
	Claim #	East	North	Az	Dip	EOH (m) (Nad 83)
Location	3019086	592384	5483181	180	-50	152
Purpose	Test Mikwam Zone					
Start date	Sep 27 2018					
End date	Sep 28 2018					
Drill Contractor	Norex Drilling					
Logged By	T.Keast					
Comments	Casing left in hole					

Description

BHID	From	To	Litho	Comment
AUL-18-26	0	51.5	CAS	Casing through overburden
AUL-18-26	51.5	116.5	IFchlor	Iron Formation green chloritic groundmass - Distinc green chloritic groundmass with distinct dark black magneited bands/beds. Complex tight folding throughout this sequence. Magnetite bands/beds mm to cm width.
AUL-18-26	116.5	126.5	ARGshd	Argillite Grey Sheared - Strongly foliated grey unit. Original lithology not readily identified. Possible remanent bands/beds but strong foliation overprint. 1% qtz veins tr py
AUL-18-26	126.5	139	CONG	Conglomerate - Stong foliation conglomerate clasts flattened. Granular matrix.
AUL-18-26	139.0	141.4	CONGshc	Conglomerate Sheared - Strong foliation with light colored xenoliths and narrow ragged grey qtz veins. 7-10% qtz veins 1-3% fine pyrite.
AUL-18-26	141.4	152.0	CONG	Conglomerate - Stong foliation conglomerate clasts flattened. Granular matrix.

Mineralization

BHID	From	To	Qtz Veins %	Py %	Po %	Arseno %	Other	Comments	Conductors (tested with ohmeter)
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Structure

BHID	Depth	Deg to CA	Comment	Comment
AUL-18-26	56.0	45 fol		Banding/bedding
AUL-18-26	60.0	5 fol		Banding/bedding
AUL-18-26	70.0	20 fol		Banding/bedding
AUL-18-26	76.0	35 fol		Banding/bedding
AUL-18-26	90.0	35 fol		Banding/bedding
AUL-18-26	101.0	40 fol		Banding/bedding
AUL-18-26	111.0	35 fol		Banding/bedding
AUL-18-26	117.0	50 fol		Banding/bedding
AUL-18-26	121.0	35 fol		local shearing
AUL-18-26	128.0	45 fol		clasts
AUL-18-26	133.0	45 fol		clasts
AUL-18-26	138.0	35 fol		clasts
AUL-18-26	141.0	30 fol		shearing
AUL-18-26	149.0	30 fol		clasts

MagSuscept

BHID	Depth	MS	<i>Terraplus KT-5 Magnetic Susceptibility Meter</i>
AUL-18-26	56.0	566.00	
AUL-18-26	60.0	469.00	
AUL-18-26	63.0	1.01	
AUL-18-26	70.0	460.00	
AUL-18-26	78.0	222.00	
AUL-18-26	90.0	574.00	
AUL-18-26	100.0	104.00	
AUL-18-26	104.0	411.00	
AUL-18-26	112.0	327.00	
AUL-18-26	115.0	232.00	
AUL-18-26	117.0	0.33	
AUL-18-26	121.0	0.20	
AUL-18-26	125.0	0.23	
AUL-18-26	127.0	0.49	
AUL-18-26	134.0	0.26	
AUL-18-26	138.5	0.16	
AUL-18-26	140.0	0.37	
AUL-18-26	143.0	0.23	
AUL-18-26	147.0	0.16	
AUL-18-26	151.0	0.10	

RQD

BHID	From	To	Recovery	RQD	Comments
AUL-18-26	53	56	3	1.6	
AUL-18-26	56.0	59.0	3.0	1.2	
AUL-18-26	59.0	62.0	2.5	0.6	
AUL-18-26	62.0	65.0	2.9	2.1	
AUL-18-26	65.0	68.0	3.0	0.4	
AUL-18-26	68.0	71.0	2.9	2.1	
AUL-18-26	71.0	74.0	2.9	2.1	
AUL-18-26	74.0	77.0	3.0	1.9	
AUL-18-26	77.0	80.0	2.9	2.3	
AUL-18-26	80.0	83.0	3.0	2.3	
AUL-18-26	83.0	86.0	3.0	2.0	
AUL-18-26	86.0	89.0	2.9	2.5	
AUL-18-26	89.0	92.0	33.0	2.5	
AUL-18-26	92.0	95.0	3.0	2.5	
AUL-18-26	95.0	98.0	2.9	2.3	
AUL-18-26	98.0	101.0	3.0	2.2	
AUL-18-26	101.0	104.0	3.0	1.5	
AUL-18-26	104.0	107.0	2.9	2.4	
AUL-18-26	107.0	110.0	3.0	2.6	
AUL-18-26	110.0	113.0	3.0	2.1	
AUL-18-26	113.0	116.0	3.0	2.2	
AUL-18-26	116.0	119.0	3.0	2.1	
AUL-18-26	119.0	122.0	3.0	2.5	
AUL-18-26	122.0	125.0	2.9	2.5	
AUL-18-26	125.0	128.0	3.0	2.1	
AUL-18-26	128.0	131.0	3.0	2.0	
AUL-18-26	131.0	134.0	3.0	2.4	
AUL-18-26	134.0	137.0	3.0	2.8	
AUL-18-26	137.0	140.0	3.0	2.8	
AUL-18-26	140.0	143.0	3.0	2.4	
AUL-18-26	143.0	146.0	3.0	2.6	
AUL-18-26	146.0	149.0	3.0	2.4	
AUL-18-26	149.0	152.0	3.0	1.9	

Reflex

BHID	Depth	Az	Az Correct	Dip	Mag Field	Use Az	Use Dip	Comments
AUL-18-26	0	180	180	-50		Y	Y	As spotted
AUL-18-26	68.0	199.5	186.5	-49.5	6073.0	N	Y	
AUL-18-26	92.0	188.2	175.2	-48.7	5669.0	Y	Y	
AUL-18-26	152.0	187.2	174.2	-46.6	5520.0	Y	Y	

Samples

BHID	Sample	From	To	Width	Stand/blank	QV %	Py%	Po%	Arsen Sphalerite	Hem	VG	other	Wgt KG	Au PPM	
AUL-18-26	1649990	115.5	116.5	1.0										1.89	0.006
AUL-18-26	1649991	116.5	117.5	1.0										1.77	0.006
AUL-18-26	1649992	117.5	118.5	1.0										2.43	0.008
AUL-18-26	1649993	118.5	119.5	1.0										2.69	<0.005
AUL-18-26	1649994	119.5	120.5	1.0										1.48	0.007
AUL-18-26	1649995	120.5	121.5	1.0										1.84	0.005
AUL-18-26	1649996	121.5	122.5	1.0										2.16	0.005
AUL-18-26	1649997	122.5	123.5	1.0										2.03	<0.005
AUL-18-26	1649998	123.5	124.5	1.0										2.04	0.005
AUL-18-26	1649999					217								0.07	>10.000
AUL-18-26	1650000	124.5	125.5	1.0										2.41	0.01
AUL-18-26	1636301	125.5	126.5	1.0										2.12	0.007
AUL-18-26	1636302	126.5	127.5	1.0										2.05	0.008
AUL-18-26	1636303	127.5	128.5	1.0										2.18	0.007
AUL-18-26	1636304	128.5	129.5	1.0										2.02	0.007
AUL-18-26	1636305				blank									0.03	6.812
AUL-18-26	1636306	129.5	130.5	1.0										1.84	0.013
AUL-18-26	1636307	130.5	131.5	1.0										2.44	0.01
AUL-18-26	1636308	131.5	132.5	1.0										2.24	0.009
AUL-18-26	1636309	132.5	133.5	1.0										2.31	0.008
AUL-18-26	1636310	133.5	134.5	1.0										1.95	0.009
AUL-18-26	1636311	134.5	135.5	1.0										1.79	0.007
AUL-18-26	1636312	135.5	136.5	1.0										2.25	0.007
AUL-18-26	1636313	136.5	137.5	1.0										2.29	0.007
AUL-18-26	1636314	137.5	139.0	1.5										2.57	0.008
AUL-18-26	1636315					216								0.12	<0.005
AUL-18-26	1636316	139.0	140.0	1.0			15	2						2.6	0.319
AUL-18-26	1636317	140.0	141.4	1.4			7	2						2.74	0.307
AUL-18-26	1636318	141.4	142.0	0.6										1.47	0.069
AUL-18-26	1636319	142.0	143.0	1.0										1.84	0.084
AUL-18-26	1636320	143.0	144.0	1.0										2.32	0.208

Header

DDH ID **AUL-18-27**

	Claim #	East	North	Az	Dip	EOH (m)	(Nad 83)
Location	3019086	592384	5483181	180	-75	266	

Purpose Test Mikwam Zone

Start date Sep 28 2018

End date Sep 30 2018

Drill Contractor Norex Drilling

Logged By T.Keast

Comments Casing left in hole

Description

BHID	From	To	Litho	Comment
AUL-18-27	0	45	CAS	Casing through overburden
AUL-18-27	45	118.0	IFchlor	Iron Formation green chloritic groundmass - Distinc green chloritic groundmass with dark black magnetite bands/beds. Complex tight folding throughout this sequence. Magnetite bands/beds mm to cm width.
AUL-18-27	118	204	ARGgry	Argillite Grey - Moderately foliated grey unit. Well banded/bedded throughuout with alternating darker grey and lighter grey beds. Low core angles throughout.
AUL-18-27	204	206.5	FAULT	Fault - Light green chloritic strongly sheared and brecciated interval. Gradational from the above argillite unit. Angular breccia clasts along foliation.
AUL-18-27	206.5	210.0	MINZON	Mineralized Zone - Chloritic zone with very little quartz vein development. 206.5-207.5 20% py 1% arseno 207.5-209.0 50% py 1% arseno. 209.5-210.0 5%py 3% hematite chloritic
AUL-18-27	210.0	221.6	IFchlor	Iron Formation green chloritic groundmass- Distinct green chloritic unit with widely spaced magnetite beds bands. Light bugg cherty beds. 5-10% qtz carb veins, 1-3% py disseminated and stringers.
AUL-18-27	221.6	229.5	BLCHfw	Bleached Unit - Original lithology not identified. Quartz sericite unit with 1-3mm quartz grains. local strong shearing and breccia with 10-15% quartz veins.
AUL-18-27	229.5	266	ARGgry	Argillite Grey - light grey strongly foliated argiliite with distinct alternating darker lighter bands/beds. Low core angles throughout.

Description

EOH 266

Mineralization

BHID	From	To	Qtz Veins %	Py %	Po %	Arseno %	Other	Comments	Conductors (tested with ohmeter)
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Structure

BHID	Depth	Deg to CA	Comment	Comment
AUL-18-27	50.0	15 fol		Banding/bedding
AUL-18-27	60.0	0 fol		Banding/bedding
AUL-18-27	71.0	20 fol		Banding/bedding
AUL-18-27	76.0	10 fol		Banding/bedding
AUL-18-27	86.0	15 fol		Banding/bedding
AUL-18-27	93.0	35 fol		Banding/bedding
AUL-18-27	100.0	70 fol		Banding/bedding
AUL-18-27	101.0	15 fol		Banding/bedding
AUL-18-27	108.0	10 fol		Banding/bedding
AUL-18-27	118.0	30 fol		Banding/bedding
AUL-18-27	123.0	10 fol		Banding/bedding
AUL-18-27	141.0	10 fol		Banding/bedding
AUL-18-27	155.0	10 fol		Banding/bedding
AUL-18-27	170.0	10 fol		Banding/bedding
AUL-18-27	179.0	5 fol		Banding/bedding
AUL-18-27	185.0	5 fol		Banding/bedding
AUL-18-27	194.0	5 fol		Banding/bedding
AUL-18-27	203.0	10 fol		Banding/bedding
AUL-18-27	205.5	10 fol		Shearing
AUL-18-27	210.0	10 fol		Shearing
AUL-18-27	217.0	5 fol		Shearing
AUL-18-27	221.0	0 fol		Banding/bedding
AUL-18-27	230.0	5 fol		Shearing
AUL-18-27	236.0	5 fol		Banding/bedding
AUL-18-27	240.0	35 fol		Banding/bedding
AUL-18-27	255.0	45 fol		Banding/bedding
AUL-18-27	265.0	10 fol		Banding/bedding

MagSuscept

BHID	Depth	MS	<i>Terraplus KT-5 Magnetic Susceptibility Meter</i>
AUL-18-27	47.0	215.00	
AUL-18-27	54.0	0.68	
AUL-18-27	60.0	2.19	
AUL-18-27	66.0	1.59	
AUL-18-27	74.0	401.00	
AUL-18-27	80.0	104.00	
AUL-18-27	87.0	0.53	
AUL-18-27	93.5	246.00	
AUL-18-27	99.0	0.41	
AUL-18-27	100.0	407.00	
AUL-18-27	104.5	462.00	
AUL-18-27	110.0	1.63	
AUL-18-27	111.5	78.70	
AUL-18-27	116.0	0.63	
AUL-18-27	117.8	1.49	
AUL-18-27	124.0	1.41	
AUL-18-27	128.0	0.58	
AUL-18-27	135.0	0.65	
AUL-18-27	144.0	0.67	
AUL-18-27	155.0	1.16	
AUL-18-27	163.0	1.09	
AUL-18-27	167.0	1.21	
AUL-18-27	170.0	0.88	
AUL-18-27	179.0	0.49	
AUL-18-27	184.0	0.55	
AUL-18-27	188.0	1.02	
AUL-18-27	195.0	1.21	
AUL-18-27	200.5	1.11	
AUL-18-27	202.0	1.35	
AUL-18-27	204.0	0.64	
AUL-18-27	206.0	11.00	
AUL-18-27	207.0	0.59	
AUL-18-27	209.5	0.77	
AUL-18-27	211.0	3.03	
AUL-18-27	213.0	7.49	
AUL-18-27	217.0	1.49	
AUL-18-27	220.0	3.35	
AUL-18-27	221.0	230.00	
AUL-18-27	224.0	1.08	
AUL-18-27	227.0	6.09	
AUL-18-27	230.0	1.28	
AUL-18-27	237.0	0.07	
AUL-18-27	238.0	0.83	
AUL-18-27	244.0	0.21	
AUL-18-27	248.0	0.54	
AUL-18-27	253.0	0.07	

MagSuscept

AUL-18-27	259.0	0.08
AUL-18-27	261.0	0.09
AUL-18-27	266.0	0.16

RQD

BHID	From	To	Recovery	RQD	Comments
AUL-18-27	47	50	2.4	0.4	
AUL-18-27	50.0	53.0	3.0	1.2	
AUL-18-27	53.0	56.0	2.9	0.9	
AUL-18-27	56.0	59.0	3.0	1.5	
AUL-18-27	59.0	62.0	2.9	2.2	
AUL-18-27	62.0	65.0	3.0	2.1	
AUL-18-27	65.0	68.0	3.0	2.4	
AUL-18-27	68.0	71.0	3.0	2.1	
AUL-18-27	71.0	74.0	3.0	2.0	
AUL-18-27	74.0	77.0	3.0	2.7	
AUL-18-27	77.0	80.0	3.0	2.0	
AUL-18-27	80.0	83.0	3.0	2.6	
AUL-18-27	83.0	86.0	3.0	2.6	
AUL-18-27	86.0	89.0	3.0	2.1	
AUL-18-27	89.0	92.0	3.0	2.4	
AUL-18-27	92.0	95.0	3.0	2.2	
AUL-18-27	95.0	98.0	2.9	2.7	
AUL-18-27	98.0	101.0	3.0	2.8	
AUL-18-27	101.0	104.0	3.0	2.5	
AUL-18-27	104.0	107.0	2.9	2.9	
AUL-18-27	107.0	110.0	3.0	2.8	
AUL-18-27	110.0	113.0	3.0	3.0	
AUL-18-27	113.0	116.0	3.0	1.9	
AUL-18-27	116.0	119.0	3.0	2.9	
AUL-18-27	119.0	122.0	3.0	2.7	
AUL-18-27	122.0	125.0	2.9	2.7	
AUL-18-27	125.0	128.0	2.9	2.7	
AUL-18-27	128.0	131.0	3.0	2.4	
AUL-18-27	131.0	134.0	3.0	2.7	
AUL-18-27	134.0	137.0	3.0	2.2	
AUL-18-27	137.0	140.0	3.0	2.4	
AUL-18-27	140.0	143.0	3.0	2.6	
AUL-18-27	143.0	146.0	3.0	3.0	
AUL-18-27	146.0	149.0	3.0	2.0	
AUL-18-27	149.0	152.0	3.0	1.9	
AUL-18-27	152.0	155.0	3.0	2.4	
AUL-18-27	155.0	158.0	3.0	2.9	
AUL-18-27	158.0	161.0	3.0	2.9	
AUL-18-27	161.0	164.0	3.0	2.9	
AUL-18-27	164.0	167.0	3.0	3.0	
AUL-18-27	167.0	170.0	3.0	3.0	
AUL-18-27	170.0	173.0	3.0	2.5	
AUL-18-27	173.0	176.0	3.0	3.0	
AUL-18-27	176.0	179.0	3.0	2.8	
AUL-18-27	179.0	182.0	3.0	2.7	
AUL-18-27	182.0	185.0	3.0	2.6	

RQD

AUL-18-27	185.0	188.0	3.0	1.7
AUL-18-27	188.0	191.0	3.0	1.9
AUL-18-27	191.0	194.0	3.0	2.2
AUL-18-27	194.0	197.0	3.0	2.5
AUL-18-27	197.0	200.0	3.0	2.1
AUL-18-27	200.0	203.0	3.0	2.6
AUL-18-27	203.0	206.0	2.9	2.7
AUL-18-27	206.0	209.0	3.0	2.6
AUL-18-27	209.0	212.0	3.0	2.3
AUL-18-27	212.0	215.0	3.0	2.8
AUL-18-27	215.0	218.0	3.0	3.0
AUL-18-27	218.0	221.0	3.0	2.7
AUL-18-27	221.0	224.0	3.0	3.0
AUL-18-27	224.0	227.0	3.0	2.9
AUL-18-27	227.0	230.0	3.0	2.8
AUL-18-27	230.0	233.0	3.0	3.0
AUL-18-27	233.0	236.0	3.0	2.7
AUL-18-27	236.0	239.0	3.0	2.5
AUL-18-27	239.0	242.0	3.0	2.6
AUL-18-27	242.0	245.0	3.0	2.7
AUL-18-27	245.0	248.0	3.0	2.6
AUL-18-27	248.0	251.0	3.0	2.9
AUL-18-27	251.0	254.0	3.0	2.6
AUL-18-27	254.0	257.0	3.0	2.8
AUL-18-27	257.0	260.0	3.0	2.9
AUL-18-27	260.0	263.0	3.0	2.9
AUL-18-27	263.0	266.0	3.0	2.9
AUL-18-27	266.0	269.0	2.8	2.1

Reflex

BHID	Depth	Az	Az Correct	Dip	Mag Field	Use Az	Use Dip	Comments
AUL-18-27	0	180	180	-75		Y	Y	As spotted
AUL-18-27	62.0	191.7	178.7	-75.4	5504.0	Y	Y	
								*Drill crew forgot to take tests for remainder of hole
								*Tests taken in March 2019
AUL-18-27	63.0	190.4	177.4	-75.7	5420.0			
AUL-18-27	114.0	188.3	175.3	-75.5	5545.0			
AUL-18-27	165.0	196.5	183.5	-75.5	5852.0			
AUL-18-27	216.0	203.3	190.3	-76.3	5532.0			
AUL-18-27	267.0	199.1	186.1	-75.7	5540.0			

Samples

BHID	Sample	From	To	Width	Stand/blank	QV %	Py%	Po%	Arsen Sphalerite	Hem	VG	other	wgt	au
AUL-18-27	1636321	202.0	203.0	1.0									2.19	0.024
AUL-18-27	1636322	203.0	204.0	1.0									2.01	0.069
AUL-18-27	1636323	204.0	205.0	1.0			10	1					2.33	0.049
AUL-18-27	1636324	205.0	206.5	1.5			10	1					3.07	0.311
AUL-18-27	1636325	206.5	207.5	1.0			25	15	2				2.6	3.04
AUL-18-27	1636326	207.5	208.5	1.0			20	35	5				2.86	2.948
AUL-18-27	1636327	208.5	209.5	1.0			25	25	1				2.45	2.052
AUL-18-27	1636328				216								0.06	6.739
AUL-18-27	1636329	209.5	210.5	1.0			5	5			3		2.07	0.497
AUL-18-27	1636330	210.5	211.5	1.0			3	3					1.99	0.398
AUL-18-27	1636331	211.5	212.5	1.0			5	2					2.51	1.611
AUL-18-27	1636332				blank								0.12	0.01
AUL-18-27	1636333	212.5	213.5	1.0									2.05	0.336
AUL-18-27	1636334	213.5	214.5	1.0									2.55	2.133
AUL-18-27	1636335	214.5	215.5	1.0			10	3					2.79	1.557
AUL-18-27	1636336	215.5	216.5	1.0			5	2					2.21	0.301
AUL-18-27	1636337	216.5	217.5	1.0			10	2					2.2	0.569
AUL-18-27	1636338	217.5	218.5	1.0			3	1					2.21	0.444
AUL-18-27	1636339	218.5	219.5	1.0			3	1					2.33	1.705
AUL-18-27	1636340	219.5	220.5	1.0			5	2					2.29	1.844
AUL-18-27	1636341	220.5	221.6	1.1			1	1					2.45	0.595
AUL-18-27	1636342				217								0.06	0.327
AUL-18-27	1636343	221.6	222.5	0.9			10	15					2.53	4.057
AUL-18-27	1636344	222.5	223.5	1.0			2	1					2.07	0.274
AUL-18-27	1636345	223.5	224.5	1.0			2	1					2.24	0.232
AUL-18-27	1636346	224.5	225.5	1.0			5	1					2.13	0.121
AUL-18-27	1636347	225.5	226.5	1.0			10	1					2.06	0.274
AUL-18-27	1636348	226.5	227.5	1.0			10	2					2.46	0.332
AUL-18-27	1636349	227.5	228.5	1.0			2	1					2.01	0.115
AUL-18-27	1636350	228.5	229.5	1.0			2	1					2.11	0.141
AUL-18-27	1636351	229.5	230.5	1.0			3	0.5					2.04	0.047
AUL-18-27	1636352				blank								0.16	<0.005
AUL-18-27	1636353	230.5	231.5	1.0			3	0.5					2.01	0.047
AUL-18-27	1636354	231.5	232.5	1.0			3	0.5					2.04	0.084
AUL-18-27	1636355	232.5	233.5	1.0			3	0.5					1.94	<0.005
AUL-18-27	1636356	233.5	234.5	1.0			3	0.5					2.45	0.009
AUL-18-27	1636357				216								0.04	6.666
AUL-18-27	1636358	234.5	235.5	1.0									2.05	0.024
AUL-18-27	1636359	235.5	236.5	1.0									2.25	0.005
AUL-18-27	1636360	236.5	237.5	1.0									2.39	0.008
AUL-18-27	1636361	237.5	238.5	1.0									2.09	0.007
AUL-18-27	1636362	238.5	239.5	1.0									1.75	0.023

Samples

AUL-18-27	1636363	239.5	240.5	1.0
AUL-18-27	1636364	240.5	241.5	1.0

2.1	<0.005
2.23	0.008



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: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: March 16, 2018
Report Date: March 28, 2018
Page: 1 of 5

CERTIFICATE OF ANALYSIS

TIM18000357.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID:
P.O. Number
Number of Samples: 100

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.

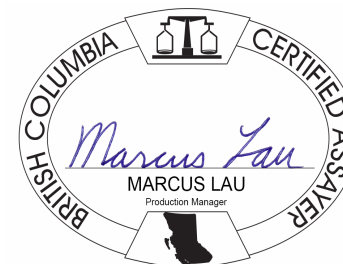
Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	93	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	7	Sort, label and box pulps			TIM
FA450	100	50g Lead Collection Fire Assay Fusion - AAS Finish	50	Completed	TIM
EN002	100	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS



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 Commodities Canada Ltd.

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Client: Aurelius Minerals
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Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: March 28, 2018

Page: 2 of 5

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000357.1

Method	WGHT	FA450
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1701001	Drill Core	1.56 <0.005
1701002	Drill Core	3.61 <0.005
1701003	Drill Core	1.79 <0.005
1701004	Drill Core	2.61 <0.005
1701005	Drill Core	2.86 <0.005
1701006	Drill Core	2.70 <0.005
1701007	Drill Core	2.63 <0.005
1701008	Drill Core	2.94 <0.005
1701009	Drill Core	3.23 <0.005
1701010	Drill Core	2.58 <0.005
1701011	Drill Core	3.62 <0.005
1701012	Drill Core	3.16 <0.005
1701013	Drill Core	6.06 <0.005
1701014	Drill Core	3.27 <0.005
1701015	Drill Core	4.48 <0.005
1701016	Drill Core	2.36 <0.005
1701017	Drill Core	2.17 <0.005
1701018	Drill Core	3.50 <0.005
1701019	Drill Core	3.59 <0.005
1701020	Rock Pulp	0.08 0.327
1701021	Drill Core	3.13 <0.005
1701022	Drill Core	3.68 <0.005
1701023	Drill Core	3.64 <0.005
1701024	Drill Core	3.67 <0.005
1701025	Rock	0.23 <0.005
1701026	Drill Core	3.27 <0.005
1701027	Drill Core	3.41 <0.005
1701028	Drill Core	3.21 <0.005
1701029	Drill Core	3.77 <0.005
1701030	Drill Core	3.31 <0.005



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Bureau Veritas Commodities Canada Ltd.

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PHONE (604) 253-3158

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: March 28, 2018

Page: 3 of 5

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000357.1

Method	WGHT	FA450
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1701031	Drill Core	3.50 <0.005
1701032	Drill Core	3.45 <0.005
1701033	Drill Core	3.47 <0.005
1701034	Drill Core	3.53 <0.005
1701035	Rock Pulp	0.03 6.422
1701036	Drill Core	3.52 0.007
1701037	Drill Core	3.55 <0.005
1701038	Drill Core	3.26 <0.005
1701039	Drill Core	3.46 <0.005
1701040	Drill Core	2.47 <0.005
1701041	Drill Core	3.51 <0.005
1701042	Drill Core	3.13 <0.005
1701043	Drill Core	2.23 <0.005
1701044	Drill Core	3.62 <0.005
1701045	Rock Pulp	0.07 0.306
1701046	Drill Core	3.40 <0.005
1701047	Drill Core	3.92 <0.005
1701048	Drill Core	2.98 <0.005
1701049	Drill Core	3.68 <0.005
1701050	Rock	0.16 <0.005
1701051	Drill Core	3.32 <0.005
1701052	Drill Core	3.56 <0.005
1701053	Drill Core	2.68 <0.005
1701054	Drill Core	3.18 <0.005
1701055	Drill Core	2.91 <0.005
1701056	Drill Core	2.83 <0.005
1701057	Drill Core	2.93 <0.005
1701058	Drill Core	2.68 <0.005
1701059	Drill Core	3.65 <0.005
1701060	Rock Pulp	0.05 6.422



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: March 28, 2018

Page: 4 of 5

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000357.1

Method	WGHT	FA450
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1701061	Drill Core	3.48 <0.005
1701062	Drill Core	3.38 <0.005
1701063	Drill Core	3.29 <0.005
1701064	Drill Core	3.68 <0.005
1701065	Drill Core	3.83 <0.005
1701066	Drill Core	3.35 <0.005
1701067	Drill Core	1.18 <0.005
1701068	Drill Core	3.13 <0.005
1701069	Drill Core	2.45 <0.005
1701070	Rock Pulp	0.09 0.323
1701071	Drill Core	4.48 <0.005
1701072	Drill Core	2.92 <0.005
1701073	Drill Core	3.28 <0.005
1701074	Drill Core	2.82 <0.005
1701075	Rock	0.16 <0.005
1701076	Drill Core	2.76 <0.005
1701077	Drill Core	3.47 <0.005
1701078	Drill Core	3.41 <0.005
1701079	Drill Core	3.06 <0.005
1701080	Drill Core	2.09 <0.005
1701081	Drill Core	0.91 <0.005
1701082	Drill Core	3.14 <0.005
1701083	Drill Core	0.89 <0.005
1701084	Drill Core	2.24 0.006
1701085	Rock Pulp	0.05 6.449
1701086	Drill Core	3.07 <0.005
1701087	Drill Core	3.02 <0.005
1701088	Drill Core	3.12 <0.005
1701089	Drill Core	3.09 <0.005
1701090	Drill Core	2.94 <0.005



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: **Aurelius Minerals**
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: March 28, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000357.1

	Method	WGHT	FA450
	Analyte	Wgt	Au
	Unit	kg	ppm
	MDL	0.01	0.005
1701091	Drill Core	2.98	<0.005
1701092	Drill Core	3.26	<0.005
1701093	Drill Core	1.13	<0.005
1701094	Drill Core	0.92	<0.005
1701095	Rock Pulp	0.08	0.348
1701096	Drill Core	1.05	<0.005
1701097	Drill Core	1.03	<0.005
1701098	Drill Core	1.01	<0.005
1701099	Drill Core	2.94	<0.005
1701100	Rock	0.18	<0.005



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Project: Mikwam (MK)
Report Date: March 28, 2018

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Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000357.1

Method	WGHT	FA450
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
Pulp Duplicates		
1701038	Drill Core	3.26 <0.005
REP 1701038	QC	<0.005
1701043	Drill Core	2.23 <0.005
REP 1701043	QC	<0.005
1701096	Drill Core	1.05 <0.005
REP 1701096	QC	<0.005
Core Reject Duplicates		
1701013	Drill Core	6.06 <0.005
DUP 1701013	QC	<0.005
1701047	Drill Core	3.92 <0.005
DUP 1701047	QC	<0.005
1701081	Drill Core	0.91 <0.005
DUP 1701081	QC	<0.005
Reference Materials		
STD OXC145	Standard	0.206
STD OXC145	Standard	0.220
STD OXH122	Standard	1.204
STD OXH122	Standard	1.220
STD OXN117	Standard	7.418
STD OXN117	Standard	7.694
STD OXH122 Expected		1.247
STD OXN117 Expected		7.679
STD OXC145 Expected		0.212
BLK	Blank	<0.005
BLK	Blank	<0.005
BLK	Blank	<0.005
BLK	Blank	<0.005
Prep Wash		



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Project: Mikwam (MK)
Report Date: March 28, 2018

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QUALITY CONTROL REPORT

TIM18000357.1

		WGHT	FA450
		Wgt	Au
		kg	ppm
		0.01	0.005
ROCK-TIM	Prep Blank		<0.005
ROCK-TIM	Prep Blank		<0.005



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: March 16, 2018
Report Date: April 02, 2018
Page: 1 of 5

CERTIFICATE OF ANALYSIS

TIM18000358.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID:
P.O. Number
Number of Samples: 100

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.

Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	92	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	8	Sort, label and box pulps			TIM
FA430	100	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	100	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS



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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Project: Mikwam (MK)
Report Date: April 02, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000358.1

Method	WGHT	FA430	
		Analyte	Au
Unit	kg	ppm	
MDL	0.01	0.005	
1701101	Drill Core	2.08	<0.005
1701102	Drill Core	2.09	<0.005
1701103	Drill Core	2.97	<0.005
1701104	Drill Core	3.05	<0.005
1701105	Drill Core	2.91	<0.005
1701106	Drill Core	3.04	<0.005
1701107	Drill Core	2.62	<0.005
1701108	Drill Core	1.06	<0.005
1701109	Drill Core	2.04	<0.005
1701110	Rock Pulp	0.04	6.660
1701111	Drill Core	3.57	<0.005
1701112	Drill Core	2.95	<0.005
1701113	Drill Core	0.81	<0.005
1701114	Drill Core	2.11	<0.005
1701115	Drill Core	2.93	<0.005
1701116	Drill Core	3.19	<0.005
1701117	Drill Core	2.92	<0.005
1701118	Drill Core	2.79	<0.005
1701119	Drill Core	1.76	<0.005
1701120	Rock Pulp	0.06	0.368
1701121	Drill Core	1.81	0.005
1701122	Drill Core	3.89	0.006
1701123	Drill Core	1.90	0.005
1701124	Drill Core	1.87	0.005
1701125	Rock	0.15	<0.005
1701126	Drill Core	2.17	<0.005
1701127	Drill Core	0.94	<0.005
1701128	Drill Core	2.63	<0.005
1701129	Drill Core	3.33	<0.005
1701130	Drill Core	2.82	<0.005



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Project: Mikwam (MK)
Report Date: April 02, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000358.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1701131	Drill Core	2.67 <0.005
1701132	Drill Core	2.89 <0.005
1701133	Drill Core	2.93 <0.005
1701134	Drill Core	3.01 0.006
1701135	Rock Pulp	0.05 6.256
1701136	Drill Core	2.96 <0.005
1701137	Drill Core	2.82 <0.005
1701138	Drill Core	2.70 <0.005
1701139	Drill Core	2.52 <0.005
1701140	Drill Core	2.95 <0.005
1701141	Drill Core	2.76 <0.005
1701142	Drill Core	2.85 <0.005
1701143	Drill Core	3.90 <0.005
1701144	Drill Core	2.86 <0.005
1701145	Rock Pulp	0.06 0.364
1701146	Drill Core	2.81 <0.005
1701147	Drill Core	1.65 <0.005
1701148	Drill Core	2.95 <0.005
1701149	Drill Core	2.73 <0.005
1701150	Rock	0.16 <0.005
1701151	Drill Core	4.63 <0.005
1701152	Drill Core	0.92 <0.005
1701153	Drill Core	3.57 <0.005
1701154	Drill Core	2.34 <0.005
1701155	Drill Core	3.07 <0.005
1701156	Drill Core	2.79 0.014
1701157	Drill Core	3.00 <0.005
1701158	Drill Core	3.51 <0.005
1701159	Drill Core	3.79 <0.005
1701160	Rock Pulp	0.05 6.621



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Project: Mikwam (MK)
Report Date: April 02, 2018

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CERTIFICATE OF ANALYSIS

TIM18000358.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1701161	Drill Core	3.05 <0.005
1701162	Drill Core	1.95 <0.005
1701163	Drill Core	3.27 <0.005
1701164	Drill Core	3.32 <0.005
1701165	Drill Core	2.10 0.045
1701166	Drill Core	2.28 <0.005
1701167	Drill Core	3.13 0.010
1701168	Drill Core	2.92 <0.005
1701169	Drill Core	3.34 <0.005
1701170	Rock Pulp	0.07 0.353
1701171	Drill Core	2.89 0.005
1701172	Drill Core	3.26 <0.005
1701173	Drill Core	3.01 <0.005
1701174	Drill Core	2.76 0.009
1701175	Rock	0.19 <0.005
1701176	Drill Core	2.94 0.007
1701177	Drill Core	2.92 0.005
1701178	Drill Core	2.56 0.008
1701179	Drill Core	3.11 0.010
1701180	Drill Core	3.17 0.005
1701181	Drill Core	3.32 0.006
1701182	Drill Core	3.04 0.006
1701183	Drill Core	2.55 0.005
1701184	Drill Core	3.67 <0.005
1701185	Rock Pulp	0.06 6.343
1701186	Drill Core	3.47 0.020
1701187	Drill Core	3.00 <0.005
1701188	Drill Core	3.28 0.005
1701189	Drill Core	3.32 0.007
1701190	Drill Core	2.95 <0.005



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Project: Mikwam (MK)
Report Date: April 02, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000358.1

	Method	WGHT	FA430
	Analyte	Wgt	Au
	Unit	kg	ppm
	MDL	0.01	0.005
1701191	Drill Core	3.05	<0.005
1701192	Drill Core	3.37	0.005
1701193	Drill Core	3.09	<0.005
1701194	Drill Core	2.89	<0.005
1701195	Rock Pulp	0.09	0.341
1701196	Drill Core	2.90	<0.005
1701197	Drill Core	2.90	<0.005
1701198	Drill Core	3.59	<0.005
1701199	Drill Core	2.66	<0.005
1701200	Rock	0.14	<0.005



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Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: April 02, 2018

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Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000358.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
Pulp Duplicates		
1701108	Drill Core	1.06 <0.005
REP 1701108	QC	<0.005
1701173	Drill Core	3.01 <0.005
REP 1701173	QC	<0.005
1701182	Drill Core	3.04 0.006
REP 1701182	QC	<0.005
1701192	Drill Core	3.37 0.005
REP 1701192	QC	<0.005
Core Reject Duplicates		
1701102	Drill Core	2.09 <0.005
DUP 1701102	QC	<0.005
1701136	Drill Core	2.96 <0.005
DUP 1701136	QC	<0.005
Reference Materials		
STD OXC145	Standard	0.212
STD OXC145	Standard	0.211
STD OXC145	Standard	0.207
STD OXH122	Standard	1.215
STD OXH122	Standard	1.251
STD OXH122	Standard	1.260
STD OXN117	Standard	7.626
STD OXN117	Standard	7.628
STD OXN117	Standard	7.638
STD OXC145 Expected		0.212
STD OXH122 Expected		1.247
STD OXN117 Expected		7.679
BLK	Blank	<0.005
BLK	Blank	<0.005



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Project: Mikwam (MK)
Report Date: April 02, 2018

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Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000358.1

		WGHT	FA430
		Wgt	Au
		kg	ppm
		0.01	0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
Prep Wash			
ROCK-TIM	Prep Blank		<0.005
ROCK-TIM	Prep Blank		<0.005



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: March 16, 2018
Report Date: April 02, 2018
Page: 1 of 5

CERTIFICATE OF ANALYSIS

TIM18000359.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID:
P.O. Number
Number of Samples: 100

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.

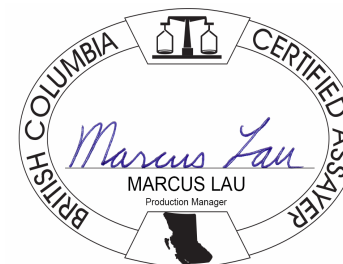
Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	92	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	8	Sort, label and box pulps			TIM
FA430	100	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	100	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS



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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Project: Mikwam (MK)
Report Date: April 02, 2018

Page: 2 of 5

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000359.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1701201	Drill Core	2.90 <0.005
1701202	Drill Core	2.99 <0.005
1701203	Drill Core	2.96 <0.005
1701204	Drill Core	3.72 0.005
1701205	Drill Core	3.26 <0.005
1701206	Drill Core	3.29 <0.005
1701207	Drill Core	2.16 <0.005
1701208	Drill Core	2.07 <0.005
1701209	Drill Core	2.21 <0.005
1701210	Rock Pulp	0.04 6.424
1701211	Drill Core	2.14 <0.005
1701212	Drill Core	2.17 <0.005
1701213	Drill Core	2.36 <0.005
1701214	Drill Core	2.07 <0.005
1701215	Drill Core	2.19 <0.005
1701216	Drill Core	2.35 <0.005
1701217	Drill Core	2.03 <0.005
1701218	Drill Core	1.93 <0.005
1701219	Drill Core	2.04 <0.005
1701220	Rock Pulp	0.10 0.359
1701221	Drill Core	2.10 <0.005
1701222	Drill Core	3.14 <0.005
1701223	Drill Core	3.37 <0.005
1701224	Drill Core	3.20 <0.005
1701225	Rock	0.16 <0.005
1701226	Drill Core	3.42 <0.005
1701227	Drill Core	2.86 <0.005
1701228	Drill Core	2.32 <0.005
1701229	Drill Core	2.49 <0.005
1701230	Drill Core	2.24 <0.005



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Project: Mikwam (MK)
Report Date: April 02, 2018

Page: 3 of 5

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000359.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1701231	Drill Core	2.43 <0.005
1701232	Drill Core	2.33 <0.005
1701233	Drill Core	2.89 <0.005
1701234	Drill Core	1.86 <0.005
1701235	Rock Pulp	0.06 6.571
1701236	Drill Core	2.07 <0.005
1701237	Drill Core	2.76 <0.005
1701238	Drill Core	1.86 <0.005
1701239	Drill Core	3.43 <0.005
1701240	Drill Core	2.95 <0.005
1701241	Drill Core	3.01 <0.005
1701242	Drill Core	3.07 <0.005
1701243	Drill Core	2.91 <0.005
1701244	Drill Core	2.68 <0.005
1701245	Rock Pulp	0.07 0.342
1701246	Drill Core	3.09 <0.005
1701247	Drill Core	2.99 <0.005
1701248	Drill Core	2.21 0.005
1701249	Drill Core	2.31 <0.005
1701250	Rock	0.11 <0.005
1701251	Drill Core	2.09 <0.005
1701252	Drill Core	2.08 <0.005
1701253	Drill Core	2.00 <0.005
1701254	Drill Core	2.16 <0.005
1701255	Drill Core	2.51 <0.005
1701256	Drill Core	2.15 <0.005
1701257	Drill Core	3.05 <0.005
1701258	Drill Core	2.88 <0.005
1701259	Drill Core	3.18 <0.005
1701260	Rock Pulp	0.05 6.533



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Project: Mikwam (MK)
Report Date: April 02, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000359.1

Method	Analyte	WGHT	FA430
		Wgt	Au
Unit		kg	ppm
MDL		0.01	0.005
1701261	Drill Core	2.84	<0.005
1701262	Drill Core	2.67	<0.005
1701263	Drill Core	2.79	<0.005
1701264	Drill Core	3.64	<0.005
1701265	Drill Core	2.88	<0.005
1701266	Drill Core	2.84	<0.005
1701267	Drill Core	3.52	<0.005
1701268	Drill Core	3.26	<0.005
1701269	Drill Core	3.22	<0.005
1701270	Rock Pulp	0.06	0.353
1701271	Drill Core	3.27	<0.005
1701272	Drill Core	2.97	<0.005
1701273	Drill Core	2.98	0.005
1701274	Drill Core	3.07	<0.005
1701275	Rock	0.15	<0.005
1701276	Drill Core	3.01	<0.005
1701277	Drill Core	3.23	0.005
1701278	Drill Core	3.07	0.006
1701279	Drill Core	3.09	<0.005
1701280	Drill Core	3.24	<0.005
1701281	Drill Core	3.30	0.005
1701282	Drill Core	3.30	<0.005
1701283	Drill Core	3.72	<0.005
1701284	Drill Core	2.81	<0.005
1701285	Rock Pulp	0.05	6.186
1701286	Drill Core	3.22	0.010
1701287	Drill Core	3.12	<0.005
1701288	Drill Core	3.33	<0.005
1701289	Drill Core	3.43	<0.005
1701290	Drill Core	3.20	<0.005



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Project: Mikwam (MK)
Report Date: April 02, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000359.1

	Method Analyte	WGHT	FA430
		Wgt	Au
	Unit	kg	ppm
	MDL	0.01	0.005
1701291	Drill Core	3.07	<0.005
1701292	Drill Core	3.04	<0.005
1701293	Drill Core	3.09	<0.005
1701294	Drill Core	3.07	<0.005
1701295	Rock Pulp	0.07	0.336
1701296	Drill Core	3.19	<0.005
1701297	Drill Core	2.76	<0.005
1701298	Drill Core	2.16	<0.005
1701299	Drill Core	2.04	<0.005
1701300	Rock	0.17	<0.005



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: April 02, 2018

Page: 1 of 2

Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000359.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
Pulp Duplicates		
1701214	Drill Core	2.07 <0.005
REP 1701214	QC	<0.005
1701270	Rock Pulp	0.06 0.353
REP 1701270	QC	0.345
Core Reject Duplicates		
1701234	Drill Core	1.86 <0.005
DUP 1701234	QC	<0.005
1701268	Drill Core	3.26 <0.005
DUP 1701268	QC	<0.005
Reference Materials		
STD OXC145	Standard	0.198
STD OXC145	Standard	0.212
STD OXC145	Standard	0.207
STD OXH122	Standard	1.207
STD OXH122	Standard	1.215
STD OXH122	Standard	1.260
STD OXN117	Standard	7.555
STD OXN117	Standard	7.626
STD OXN117	Standard	7.638
STD OXC145 Expected		0.212
STD OXH122 Expected		1.247
STD OXN117 Expected		7.679
BLK	Blank	<0.005
BLK	Blank	<0.005
BLK	Blank	<0.005
BLK	Blank	<0.005
BLK	Blank	<0.005
BLK	Blank	<0.005



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Client: Aurelius Minerals
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Project: Mikwam (MK)
Report Date: April 02, 2018

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Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000359.1

		WGHT	FA430
		Wgt	Au
		kg	ppm
		0.01	0.005
Prep Wash			
ROCK-TIM	Prep Blank		<0.005
ROCK-TIM	Prep Blank		<0.005



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

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: March 16, 2018
Report Date: April 02, 2018
Page: 1 of 3

CERTIFICATE OF ANALYSIS

TIM18000360.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID:
P.O. Number
Number of Samples: 60

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.

Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	55	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	8	Sort, label and box pulps			TIM
FA430	60	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	60	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS



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*** 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: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: April 02, 2018

Page: 2 of 3

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000360.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1701301	Drill Core	2.20 <0.005
1701302	Drill Core	2.33 0.006
1701303	Drill Core	2.39 0.006
1701304	Drill Core	2.32 0.008
1701305	Drill Core	2.39 <0.005
1701306	Drill Core	2.38 <0.005
1701307	Drill Core	2.11 <0.005
1701308	Drill Core	2.31 <0.005
1701309	Drill Core	2.40 0.005
1701310	Rock Pulp	0.05 6.195
1701311	Drill Core	2.18 <0.005
1701312	Drill Core	3.21 <0.005
1701313	Drill Core	3.49 <0.005
1701314	Drill Core	3.24 <0.005
1701315	Drill Core	3.57 <0.005
1701316	Drill Core	2.94 <0.005
1701317	Drill Core	3.74 <0.005
1701318	Drill Core	1.87 <0.005
1701319	Drill Core	3.57 <0.005
1701320	Rock Pulp	0.07 0.319
1701321	Drill Core	3.24 <0.005
1701322	Drill Core	3.96 <0.005
1701323	Drill Core	2.92 <0.005
1701324	Drill Core	3.62 <0.005
1701325	Rock	0.18 <0.005
1701326	Drill Core	3.26 <0.005
1701327	Drill Core	3.08 <0.005
1701328	Drill Core	3.17 0.005
1701329	Drill Core	3.41 <0.005
1701330	Drill Core	3.16 <0.005



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: April 02, 2018

Page: 3 of 3

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000360.1

Method	Analyte	WGHT	FA430
		Wgt	Au
Unit		kg	ppm
MDL		0.01	0.005
1701331	Drill Core	2.12	<0.005
1701332	Drill Core	4.21	<0.005
1701333	Drill Core	3.11	<0.005
1701334	Drill Core	3.16	0.019
1701335	Rock Pulp	0.05	6.257
1701336	Drill Core	2.83	<0.005
1701337	Drill Core	3.15	<0.005
1701338	Drill Core	3.26	<0.005
1701339	Drill Core	3.52	<0.005
1701340	Drill Core	2.71	<0.005
1701341	Drill Core	3.00	<0.005
1701342	Drill Core	3.33	<0.005
1701343	Drill Core	3.23	<0.005
1701344	Drill Core	3.24	<0.005
1701345	Rock Pulp	0.07	0.310
1701346	Drill Core	4.15	<0.005
1701347	Drill Core	2.98	<0.005
1701348	Drill Core	3.29	<0.005
1701349	Drill Core	3.06	<0.005
1701350	Rock	0.22	<0.005
1701351	Drill Core	3.60	<0.005
1701352	Drill Core	3.29	<0.005
1701353	Drill Core	3.38	<0.005
1701354	Drill Core	3.46	<0.005
1701355	Drill Core	3.52	<0.005
1701356	Drill Core	3.30	<0.005
1701357	Drill Core	3.24	<0.005
1701358	Drill Core	3.26	<0.005
1701359	Drill Core	3.37	<0.005
1701360	Rock Pulp	0.04	6.332



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: April 02, 2018

Page: 1 of 1

Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000360.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
Pulp Duplicates		
1701345	Rock Pulp	0.07 0.310
REP 1701345	QC	0.318
1701350	Rock	0.22 <0.005
REP 1701350	QC	<0.005
Core Reject Duplicates		
1701307	Drill Core	2.11 <0.005
DUP 1701307	QC	<0.005
1701341	Drill Core	3.00 <0.005
DUP 1701341	QC	<0.005
Reference Materials		
STD OXC145	Standard	0.208
STD OXH122	Standard	1.193
STD OXN117	Standard	7.564
STD OXC145 Expected		0.212
STD OXH122 Expected		1.247
STD OXN117 Expected		7.679
BLK	Blank	<0.005
BLK	Blank	<0.005
Prep Wash		
ROCK-TIM	Prep Blank	<0.005
ROCK-TIM	Prep Blank	<0.005



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PHONE (604) 253-3158

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: March 26, 2018
Report Date: April 06, 2018
Page: 1 of 5

CERTIFICATE OF ANALYSIS

TIM18000447.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID:
P.O. Number
Number of Samples: 100

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.

Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	92	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	8	Sort, label and box pulps			TIM
FA430	100	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	100	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS



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Project: Mikwam (MK)
Report Date: April 06, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000447.1

Method	Analyte	WGHT	FA430
		Wgt	Au
Unit		kg	ppm
MDL		0.01	0.005
1701361	Drill Core	3.51	<0.005
1701362	Drill Core	3.28	<0.005
1701363	Drill Core	3.11	<0.005
1701364	Drill Core	3.19	<0.005
1701365	Drill Core	3.31	<0.005
1701366	Drill Core	3.24	<0.005
1701367	Drill Core	2.99	<0.005
1701368	Drill Core	3.04	<0.005
1701369	Drill Core	3.22	<0.005
1701370	Rock Pulp	0.06	0.296
1701371	Drill Core	3.14	<0.005
1701372	Drill Core	3.65	<0.005
1701373	Drill Core	2.80	<0.005
1701374	Rock	0.18	<0.005
1701375	Drill Core	3.19	<0.005
1701376	Drill Core	3.25	<0.005
1701377	Drill Core	3.08	<0.005
1701378	Drill Core	2.99	<0.005
1701379	Drill Core	3.18	<0.005
1701380	Drill Core	2.88	<0.005
1701381	Drill Core	1.50	<0.005
1701382	Drill Core	5.70	<0.005
1701383	Drill Core	3.43	0.006
1701384	Drill Core	3.21	<0.005
1701385	Rock Pulp	0.05	6.387
1701386	Drill Core	3.31	<0.005
1701387	Drill Core	2.75	<0.005
1701388	Drill Core	3.17	<0.005
1701389	Drill Core	3.74	<0.005
1701390	Drill Core	2.31	0.005



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Project: Mikwam (MK)
Report Date: April 06, 2018

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CERTIFICATE OF ANALYSIS

TIM18000447.1

Method	Analyte	WGHT	FA430
		Wgt	Au
Unit		kg	ppm
MDL		0.01	0.005
1701391	Drill Core	2.61	<0.005
1701392	Drill Core	2.83	0.005
1701393	Drill Core	3.13	<0.005
1701394	Drill Core	3.99	<0.005
1701395	Rock Pulp	0.06	0.336
1701396	Drill Core	2.83	<0.005
1701397	Drill Core	3.12	<0.005
1701398	Drill Core	2.88	<0.005
1701399	Drill Core	2.96	<0.005
1701400	Rock	0.18	<0.005
1701401	Drill Core	3.11	<0.005
1701402	Drill Core	2.84	<0.005
1701403	Drill Core	3.22	<0.005
1701404	Drill Core	2.89	<0.005
1701405	Drill Core	2.88	<0.005
1701406	Drill Core	2.89	<0.005
1701407	Drill Core	2.25	<0.005
1701408	Drill Core	3.35	<0.005
1701409	Drill Core	3.61	<0.005
1701410	Rock Pulp	0.04	6.405
1701411	Drill Core	3.08	<0.005
1701412	Drill Core	2.86	<0.005
1701413	Drill Core	3.03	<0.005
1701414	Drill Core	2.71	<0.005
1701415	Drill Core	2.98	<0.005
1701416	Drill Core	2.86	<0.005
1701417	Drill Core	3.40	<0.005
1701418	Drill Core	1.84	<0.005
1701419	Drill Core	4.01	<0.005
1701420	Rock Pulp	0.05	0.325



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: April 06, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000447.1

Method	Analyte	WGHT	FA430
		Wgt	Au
Unit		kg	ppm
MDL		0.01	0.005
1701421	Drill Core	1.98	<0.005
1701422	Drill Core	2.42	<0.005
1701423	Drill Core	2.03	<0.005
1701424	Drill Core	1.96	<0.005
1701425	Rock	0.17	<0.005
1701426	Drill Core	2.31	<0.005
1701427	Drill Core	2.03	<0.005
1701428	Drill Core	1.97	<0.005
1701429	Drill Core	2.14	0.005
1701430	Drill Core	2.13	0.006
1701431	Drill Core	2.24	<0.005
1701432	Drill Core	2.27	<0.005
1701433	Drill Core	2.28	<0.005
1701434	Drill Core	1.97	<0.005
1701435	Rock Pulp	0.04	6.217
1701436	Drill Core	1.61	<0.005
1701437	Drill Core	2.37	<0.005
1701438	Drill Core	1.45	<0.005
1701439	Drill Core	1.88	<0.005
1701440	Drill Core	4.12	<0.005
1701441	Drill Core	3.28	<0.005
1701442	Drill Core	2.85	<0.005
1701443	Drill Core	3.37	<0.005
1701444	Drill Core	2.99	<0.005
1701445	Rock Pulp	0.06	0.329
1701446	Drill Core	3.34	<0.005
1701447	Drill Core	3.31	<0.005
1701448	Drill Core	3.79	<0.005
1701449	Drill Core	3.60	<0.005
1701450	Rock	0.17	<0.005



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Client: **Aurelius Minerals**
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: April 06, 2018

Page: 5 of 5

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000447.1

	Method	WGHT FA430	
		Wgt	Au
Analyte	Unit	kg	ppm
MDL		0.01	0.005
1701451	Drill Core	3.24	<0.005
1701452	Drill Core	3.23	<0.005
1701453	Drill Core	3.26	<0.005
1701454	Drill Core	2.04	<0.005
1701455	Drill Core	3.10	0.006
1701456	Drill Core	3.04	0.006
1701457	Drill Core	2.96	<0.005
1701458	Drill Core	3.53	<0.005
1701459	Drill Core	3.29	<0.005
1701460	Rock Pulp	0.04	6.448



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Project: Mikwam (MK)
Report Date: April 06, 2018

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Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000447.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
Pulp Duplicates		
1701381	Drill Core	1.50 <0.005
REP 1701381	QC	<0.005
1701420	Rock Pulp	0.05 0.325
REP 1701420	QC	0.323
Core Reject Duplicates		
1701384	Drill Core	3.21 <0.005
DUP 1701384	QC	0.006
1701418	Drill Core	1.84 <0.005
DUP 1701418	QC	<0.005
1701452	Drill Core	3.23 <0.005
DUP 1701452	QC	<0.005
Reference Materials		
STD OXC145	Standard	0.218
STD OXC145	Standard	0.200
STD OXC145	Standard	0.203
STD OXC145	Standard	0.207
STD OXH122	Standard	1.276
STD OXH122	Standard	1.202
STD OXH122	Standard	1.194
STD OXH122	Standard	1.211
STD OXN117	Standard	7.282
STD OXN117	Standard	7.179
STD OXN117	Standard	7.352
STD OXN117	Standard	7.321
STD OXC145 Expected		0.212
STD OXH122 Expected		1.247
STD OXN117 Expected		7.679
BLK	Blank	<0.005



Bureau Veritas Commodities Canada Ltd.

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PHONE (604) 253-3158

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: April 06, 2018

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Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000447.1

		WGHT	FA430
		Wgt	Au
		kg	ppm
		0.01	0.005
BLK	Blank		<0.005
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-TIM	Prep Blank		<0.005
ROCK-TIM	Prep Blank		<0.005



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PHONE (604) 253-3158

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: March 26, 2018
Report Date: April 09, 2018
Page: 1 of 5

CERTIFICATE OF ANALYSIS

TIM18000448.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID:
P.O. Number
Number of Samples: 100

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.

Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	92	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	8	Sort, label and box pulps			TIM
FA430	100	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	100	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS



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*** 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: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: April 09, 2018

Page: 2 of 5

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000448.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1701461	Drill Core	3.49 <0.005
1701462	Drill Core	3.17 <0.005
1701463	Drill Core	3.34 <0.005
1701464	Drill Core	3.11 <0.005
1701465	Drill Core	3.46 <0.005
1701466	Drill Core	3.53 <0.005
1701467	Drill Core	3.21 <0.005
1701468	Drill Core	3.45 <0.005
1701469	Drill Core	3.15 <0.005
1701470	Rock Pulp	0.06 0.323
1701471	Drill Core	3.26 0.006
1701472	Drill Core	2.14 0.017
1701473	Drill Core	2.48 <0.005
1701474	Drill Core	1.59 0.005
1701475	Rock	0.16 <0.005
1701476	Drill Core	2.58 0.005
1701477	Drill Core	2.29 0.008
1701478	Drill Core	3.49 0.006
1701479	Drill Core	2.83 <0.005
1701480	Drill Core	3.38 <0.005
1701481	Drill Core	2.98 <0.005
1701482	Drill Core	3.54 0.005
1701483	Drill Core	2.97 <0.005
1701484	Drill Core	3.98 0.006
1701485	Rock Pulp	0.06 6.531
1701486	Drill Core	2.53 0.013
1701487	Drill Core	4.32 0.006
1701488	Drill Core	3.34 <0.005
1701489	Drill Core	3.34 <0.005
1701490	Drill Core	2.36 <0.005



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: April 09, 2018

Page: 3 of 5

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000448.1

Method	Analyte	WGHT	FA430
		Wgt	Au
Unit		kg	ppm
MDL		0.01	0.005
1701491	Drill Core	2.33	<0.005
1701492	Drill Core	1.04	<0.005
1701493	Drill Core	5.73	<0.005
1701494	Drill Core	3.01	<0.005
1701495	Rock Pulp	0.05	0.324
1701496	Drill Core	3.10	<0.005
1701497	Drill Core	3.44	<0.005
1701498	Drill Core	2.69	<0.005
1701499	Drill Core	3.61	<0.005
1701500	Rock	0.15	<0.005
1701501	Drill Core	3.62	<0.005
1701502	Drill Core	3.03	<0.005
1701503	Drill Core	3.42	0.008
1701504	Drill Core	3.24	<0.005
1701505	Drill Core	3.19	<0.005
1701506	Drill Core	2.89	<0.005
1701507	Drill Core	2.79	<0.005
1701508	Drill Core	3.11	<0.005
1701509	Drill Core	3.25	<0.005
1701510	Rock Pulp	0.05	6.389
1701511	Drill Core	3.44	<0.005
1701512	Drill Core	3.25	<0.005
1701513	Drill Core	2.14	<0.005
1701514	Drill Core	4.09	<0.005
1701515	Drill Core	3.23	0.005
1701516	Drill Core	3.43	0.006
1701517	Drill Core	3.24	<0.005
1701518	Drill Core	3.17	<0.005
1701519	Drill Core	2.92	<0.005
1701520	Rock Pulp	0.09	0.326



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Project: Mikwam (MK)
Report Date: April 09, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000448.1

Method	Analyte	WGHT	FA430
		Wgt	Au
Unit		kg	ppm
MDL		0.01	0.005
1701521	Drill Core	3.43	<0.005
1701522	Drill Core	3.21	<0.005
1701523	Drill Core	3.10	<0.005
1701524	Drill Core	3.03	<0.005
1701525	Rock	0.20	<0.005
1701526	Drill Core	2.78	<0.005
1701527	Drill Core	3.38	<0.005
1701528	Drill Core	3.14	<0.005
1701529	Drill Core	3.35	<0.005
1701530	Drill Core	3.13	<0.005
1701531	Drill Core	3.11	<0.005
1701532	Drill Core	3.47	0.005
1701533	Drill Core	2.80	<0.005
1701534	Drill Core	3.05	<0.005
1701535	Rock Pulp	0.07	6.471
1701536	Drill Core	1.98	<0.005
1701537	Drill Core	2.00	<0.005
1701538	Drill Core	2.03	0.014
1701539	Drill Core	2.23	<0.005
1701540	Drill Core	3.13	0.005
1701541	Drill Core	3.21	0.005
1701542	Drill Core	3.18	<0.005
1701543	Drill Core	3.09	<0.005
1701544	Drill Core	3.21	0.006
1701545	Rock Pulp	0.05	0.325
1701546	Drill Core	3.20	<0.005
1701547	Drill Core	3.32	<0.005
1701548	Drill Core	3.03	<0.005
1701549	Drill Core	3.16	<0.005
1701550	Rock	0.18	<0.005



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Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: April 09, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000448.1

	Method	WGHT	FA430
	Analyte	Wgt	Au
	Unit	kg	ppm
	MDL	0.01	0.005
1701551	Drill Core	3.18	<0.005
1701552	Drill Core	3.35	<0.005
1701553	Drill Core	2.82	<0.005
1701554	Drill Core	3.23	<0.005
1701555	Drill Core	3.51	<0.005
1701556	Drill Core	2.83	<0.005
1701557	Drill Core	3.30	<0.005
1701558	Drill Core	3.31	<0.005
1701559	Drill Core	2.94	<0.005
1701560	Rock Pulp	0.05	3.133



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625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: April 09, 2018

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Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000448.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
Pulp Duplicates		
1701493	Drill Core	5.73 <0.005
REP 1701493	QC	<0.005
1701500	Rock	0.15 <0.005
REP 1701500	QC	<0.005
1701509	Drill Core	3.25 <0.005
REP 1701509	QC	0.006
1701536	Drill Core	1.98 <0.005
REP 1701536	QC	<0.005
Core Reject Duplicates		
1701467	Drill Core	3.21 <0.005
DUP 1701467	QC	<0.005
1701501	Drill Core	3.62 <0.005
DUP 1701501	QC	<0.005
Reference Materials		
STD OXC145	Standard	0.207
STD OXC145	Standard	0.207
STD OXC145	Standard	0.213
STD OXH122	Standard	1.211
STD OXH122	Standard	1.179
STD OXH122	Standard	1.213
STD OXN117	Standard	7.321
STD OXN117	Standard	7.221
STD OXN117	Standard	7.444
STD OXC145 Expected		0.212
STD OXH122 Expected		1.247
STD OXN117 Expected		7.679
BLK	Blank	<0.005
BLK	Blank	0.005



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Project: Mikwam (MK)
Report Date: April 09, 2018

Page: 2 of 2

Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000448.1

		WGHT	FA430
		Wgt	Au
		kg	ppm
		0.01	0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
Prep Wash			
ROCK-TIM	Prep Blank		<0.005
ROCK-TIM	Prep Blank		<0.005



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: March 26, 2018
Report Date: April 06, 2018
Page: 1 of 4

CERTIFICATE OF ANALYSIS

TIM18000449.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID:
P.O. Number
Number of Samples: 64

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.

Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	61	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	3	Sort, label and box pulps			TIM
FA430	64	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	64	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS



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: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: April 06, 2018

Page: 2 of 4

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000449.1

Method	Analyte	WGHT	FA430
		Wgt	Au
Unit		kg	ppm
MDL		0.01	0.005
1701561	Drill Core	3.35	<0.005
1701562	Drill Core	3.42	<0.005
1701563	Drill Core	3.10	<0.005
1701564	Drill Core	3.05	<0.005
1701565	Drill Core	3.19	<0.005
1701566	Drill Core	3.04	<0.005
1701567	Drill Core	3.40	<0.005
1701568	Drill Core	3.13	<0.005
1701569	Drill Core	1.69	<0.005
1701570	Rock Pulp	0.08	0.320
1701571	Drill Core	4.20	<0.005
1701572	Drill Core	3.19	<0.005
1701573	Drill Core	3.22	<0.005
1701574	Drill Core	2.82	<0.005
1701575	Rock	0.19	<0.005
1701576	Drill Core	3.21	<0.005
1701577	Drill Core	3.39	<0.005
1701578	Drill Core	3.65	<0.005
1701579	Drill Core	3.23	0.005
1701580	Drill Core	2.76	<0.005
1701581	Drill Core	3.48	<0.005
1701582	Drill Core	3.32	<0.005
1701583	Drill Core	3.26	<0.005
1701584	Drill Core	2.94	0.006
1701585	Drill Core	3.15	<0.005
1701586	Drill Core	3.09	<0.005
1701587	Drill Core	3.19	<0.005
1701588	Drill Core	2.90	<0.005
1701589	Drill Core	2.88	<0.005
1701590	Drill Core	3.37	<0.005



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Project: Mikwam (MK)
Report Date: April 06, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000449.1

Method	Analyte	WGHT	FA430
		Wgt	Au
Unit		kg	ppm
MDL		0.01	0.005
1701591	Drill Core	3.05	<0.005
1701592	Drill Core	1.33	<0.005
1701593	Drill Core	1.94	<0.005
1701594	Drill Core	4.51	<0.005
1701595	Rock Pulp	0.08	0.331
1701596	Drill Core	3.62	<0.005
1701597	Drill Core	2.92	<0.005
1701598	Drill Core	2.80	<0.005
1701599	Drill Core	3.75	<0.005
1701600	Rock	0.20	0.006
1701601	Drill Core	3.18	<0.005
1701602	Drill Core	2.96	<0.005
1701603	Drill Core	3.00	<0.005
1701604	Drill Core	3.41	<0.005
1701605	Drill Core	1.08	<0.005
1701606	Drill Core	5.70	<0.005
1701607	Drill Core	3.37	<0.005
1701608	Drill Core	2.72	<0.005
1701609	Drill Core	3.38	<0.005
1701610	Drill Core	3.45	<0.005
1701611	Drill Core	3.50	<0.005
1701612	Drill Core	3.06	<0.005
1701613	Drill Core	1.86	<0.005
1701614	Drill Core	2.15	<0.005
1701615	Drill Core	1.83	<0.005
1701616	Drill Core	3.87	<0.005
1701617	Drill Core	3.04	<0.005
1701618	Drill Core	2.69	<0.005
1701619	Drill Core	2.18	<0.005
1701620	Rock Pulp	0.08	0.324



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PHONE (604) 253-3158

Client: **Aurelius Minerals**
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: April 06, 2018

Page: 4 of 4

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000449.1

	Method	WGHT	FA430
	Analyte	Wgt	Au
	Unit	kg	ppm
	MDL	0.01	0.005
1701621	Drill Core	3.08	<0.005
1701622	Drill Core	2.51	<0.005
1701623	Drill Core	3.05	<0.005
1701624	Drill Core	3.13	<0.005



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PHONE (604) 253-3158

Client: Aurelius Minerals
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Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: April 06, 2018

Page: 1 of 1

Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000449.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
Pulp Duplicates		
1701580	Drill Core	2.76 <0.005
REP 1701580	QC	<0.005
1701597	Drill Core	2.92 <0.005
REP 1701597	QC	<0.005
Core Reject Duplicates		
1701589	Drill Core	2.88 <0.005
DUP 1701589	QC	<0.005
1701623	Drill Core	3.05 <0.005
DUP 1701623	QC	<0.005
Reference Materials		
STD OXC145	Standard	0.200
STD OXC145	Standard	0.203
STD OXH122	Standard	1.202
STD OXH122	Standard	1.194
STD OXN117	Standard	7.179
STD OXN117	Standard	7.352
STD OXC145 Expected		0.212
STD OXH122 Expected		1.247
STD OXN117 Expected		7.679
BLK	Blank	<0.005
BLK	Blank	<0.005
BLK	Blank	<0.005
BLK	Blank	<0.005
Prep Wash		
ROCK-TIM	Prep Blank	<0.005
ROCK-TIM	Prep Blank	<0.005



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: April 07, 2018
Report Date: April 18, 2018
Page: 1 of 5

CERTIFICATE OF ANALYSIS

TIM18000575.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID: BATCH#017
P.O. Number
Number of Samples: 100

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.

Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	91	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	7	Sort, label and box pulps			TIM
FA430	98	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	98	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS



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: Aurelius Minerals
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Project: Mikwam (MK)
Report Date: April 18, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000575.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1701625	Rock Pulp	0.09 0.283
1701626	Drill Core	3.01 <0.005
1701627	Drill Core	3.27 <0.005
1701628	Drill Core	3.22 0.006
1701629	Drill Core	2.52 <0.005
1701630	Drill Core	3.29 <0.005
1701631	Drill Core	3.03 0.014
1701632	Drill Core	3.15 0.006
1701633	Drill Core	3.07 0.022
1701634	Drill Core	3.04 0.015
1701635	Rock Pulp	0.07 0.281
1701636	Drill Core	2.50 <0.005
1701637	Drill Core	3.53 0.010
1701638	Drill Core	3.41 0.016
1701639	Drill Core	3.15 0.014
1701640	Drill Core	2.98 0.015
1701641	Drill Core	2.89 0.011
1701642	Drill Core	3.03 0.034
1701643	Drill Core	3.19 0.045
1701644	Drill Core	5.40 0.047
1701645	Rock Pulp	0.07 0.321
1701646	Drill Core	L.N.R. L.N.R.
1701647	Drill Core	L.N.R. L.N.R.
1701648	Drill Core	2.74 <0.005
1701649	Drill Core	3.08 <0.005
1701650	Rock	0.19 <0.005
1701651	Drill Core	2.63 <0.005
1701652	Drill Core	3.34 <0.005
1701653	Drill Core	3.21 <0.005
1701654	Drill Core	2.99 <0.005



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Project: Mikwam (MK)
Report Date: April 18, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000575.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1701655	Drill Core	3.74 <0.005
1701656	Drill Core	3.05 <0.005
1701657	Drill Core	3.00 <0.005
1701658	Drill Core	3.17 <0.005
1701659	Drill Core	3.20 <0.005
1701660	Drill Core	3.45 <0.005
1701661	Drill Core	3.32 <0.005
1701662	Drill Core	3.25 <0.005
1701663	Drill Core	3.21 <0.005
1701664	Drill Core	3.33 <0.005
1701665	Drill Core	3.08 <0.005
1701666	Drill Core	3.21 <0.005
1701667	Drill Core	3.07 <0.005
1701668	Drill Core	3.43 <0.005
1701669	Drill Core	3.07 <0.005
1701670	Rock Pulp	0.07 0.325
1701671	Drill Core	2.43 <0.005
1701672	Drill Core	3.21 <0.005
1701673	Drill Core	3.17 <0.005
1701674	Drill Core	3.46 <0.005
1701675	Rock	0.19 <0.005
1701676	Drill Core	3.09 0.007
1701677	Drill Core	3.04 0.006
1701678	Drill Core	3.25 0.008
1701679	Drill Core	3.24 0.007
1701680	Drill Core	3.04 0.009
1701681	Drill Core	3.01 0.023
1701682	Drill Core	2.90 <0.005
1701683	Drill Core	3.42 <0.005
1701684	Drill Core	2.47 <0.005



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: April 18, 2018

Page: 4 of 5

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000575.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1701685	Rock Pulp	0.09 6.459
1701686	Drill Core	3.48 <0.005
1701687	Drill Core	2.81 <0.005
1701688	Drill Core	3.21 <0.005
1701689	Drill Core	2.97 <0.005
1701690	Drill Core	3.40 <0.005
1701691	Drill Core	2.51 <0.005
1701692	Drill Core	3.02 <0.005
1701693	Drill Core	3.19 <0.005
1701694	Drill Core	3.53 <0.005
1701695	Rock Pulp	0.07 0.335
1701696	Drill Core	3.28 <0.005
1701697	Drill Core	3.50 <0.005
1701698	Drill Core	3.19 <0.005
1701699	Drill Core	3.60 <0.005
1701700	Rock	0.15 <0.005
1701701	Drill Core	3.22 <0.005
1701702	Drill Core	3.37 <0.005
1701703	Drill Core	2.87 <0.005
1701704	Drill Core	3.73 <0.005
1701705	Drill Core	3.16 <0.005
1701706	Drill Core	3.20 <0.005
1701707	Drill Core	3.25 <0.005
1701708	Drill Core	3.13 <0.005
1701709	Drill Core	3.44 <0.005
1701710	Drill Core	2.82 <0.005
1701711	Drill Core	3.17 <0.005
1701712	Drill Core	3.27 <0.005
1701713	Drill Core	3.13 <0.005
1701714	Drill Core	3.24 <0.005



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: **Aurelius Minerals**
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: April 18, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000575.1

Method	WGHT	FA430	
		Analyte	Wgt
Unit	kg	ppm	
MDL	0.01	0.005	
1701715	Drill Core	3.43	<0.005
1701716	Drill Core	3.15	<0.005
1701717	Drill Core	3.49	<0.005
1701718	Drill Core	3.13	<0.005
1701719	Drill Core	3.65	<0.005
1701720	Rock Pulp	0.06	0.321
1701721	Drill Core	3.12	<0.005
1701722	Drill Core	3.23	<0.005
1701723	Drill Core	3.09	0.006
1701724	Drill Core	3.44	<0.005



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: April 18, 2018

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Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000575.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
Pulp Duplicates		
1701670	Rock Pulp	0.07 0.325
REP 1701670	QC	0.343
1701700	Rock	0.15 <0.005
REP 1701700	QC	<0.005
Core Reject Duplicates		
1701644	Drill Core	5.40 0.047
DUP 1701644	QC	0.044
1701678	Drill Core	3.25 0.008
DUP 1701678	QC	0.006
1701712	Drill Core	3.27 <0.005
DUP 1701712	QC	<0.005
Reference Materials		
STD OXC145	Standard	0.210
STD OXC145	Standard	0.208
STD OXC145	Standard	0.218
STD OXH122	Standard	1.216
STD OXH122	Standard	1.279
STD OXH122	Standard	1.310
STD OXN117	Standard	7.662
STD OXN117	Standard	7.148
STD OXN117	Standard	7.684
STD OXC145 Expected		0.212
STD OXH122 Expected		1.247
STD OXN117 Expected		7.679
BLK	Blank	<0.005
BLK	Blank	<0.005
BLK	Blank	<0.005
BLK	Blank	<0.005



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625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: April 18, 2018

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Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000575.1

		WGHT	FA430
		Wgt	Au
		kg	ppm
		0.01	0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
Prep Wash			
ROCK-TIM	Prep Blank		<0.005
ROCK-TIM	Prep Blank		<0.005



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PHONE (604) 253-3158

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: April 07, 2018
Report Date: April 18, 2018
Page: 1 of 5

CERTIFICATE OF ANALYSIS

TIM18000576.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID: BATCH#017
P.O. Number
Number of Samples: 100

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.

Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	94	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	6	Sort, label and box pulps			TIM
FA430	100	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	100	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS



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: Aurelius Minerals
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Project: Mikwam (MK)
Report Date: April 18, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000576.1

Method	Analyte	WGHT	FA430
		Wgt	Au
Unit		kg	ppm
MDL		0.01	0.005
1701725	Rock	0.14	<0.005
1701726	Drill Core	3.11	<0.005
1701727	Drill Core	2.89	<0.005
1701728	Drill Core	2.97	<0.005
1701729	Drill Core	2.71	<0.005
1701730	Drill Core	3.55	<0.005
1701731	Drill Core	2.98	<0.005
1701732	Drill Core	2.35	<0.005
1701733	Drill Core	3.08	<0.005
1701734	Drill Core	3.01	<0.005
1701735	Rock Pulp	0.08	6.337
1701736	Drill Core	2.99	<0.005
1701737	Drill Core	2.78	<0.005
1701738	Drill Core	2.64	<0.005
1701739	Drill Core	3.14	<0.005
1701740	Drill Core	2.99	<0.005
1701741	Drill Core	3.37	<0.005
1701742	Drill Core	2.92	<0.005
1701743	Drill Core	3.22	<0.005
1701744	Drill Core	3.27	<0.005
1701745	Rock Pulp	0.04	0.328
1701746	Drill Core	3.46	<0.005
1701747	Drill Core	3.59	<0.005
1701748	Drill Core	3.20	<0.005
1701749	Drill Core	2.94	<0.005
1701750	Rock	0.14	<0.005
1701751	Drill Core	3.17	<0.005
1701752	Drill Core	3.24	<0.005
1701753	Drill Core	3.21	<0.005
1701754	Drill Core	3.15	<0.005



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Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: April 18, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000576.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1701755	Drill Core	3.10 <0.005
1701756	Drill Core	3.28 <0.005
1701757	Drill Core	2.98 <0.005
1701758	Drill Core	3.59 <0.005
1701759	Drill Core	3.07 <0.005
1701760	Drill Core	3.38 <0.005
1701761	Drill Core	3.19 <0.005
1701762	Drill Core	3.58 <0.005
1701763	Drill Core	3.13 <0.005
1701764	Drill Core	3.34 <0.005
1701765	Drill Core	3.12 <0.005
1701766	Drill Core	3.34 <0.005
1701767	Drill Core	2.94 <0.005
1701768	Drill Core	3.41 0.006
1701769	Drill Core	3.08 <0.005
1701770	Rock Pulp	0.05 0.319
1701771	Drill Core	3.20 <0.005
1701772	Drill Core	3.69 <0.005
1701773	Drill Core	3.60 <0.005
1701774	Drill Core	3.37 <0.005
1701775	Rock	0.16 <0.005
1701776	Drill Core	2.51 <0.005
1701777	Drill Core	2.77 0.007
1701778	Drill Core	2.36 0.005
1701779	Drill Core	4.46 0.006
1701780	Drill Core	2.84 0.005
1701781	Drill Core	3.87 0.006
1701782	Drill Core	3.31 0.005
1701783	Drill Core	3.27 <0.005
1701784	Drill Core	3.18 0.006



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: April 18, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000576.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1701785	Rock Pulp	0.07 5.217
1701786	Drill Core	3.33 <0.005
1701787	Drill Core	3.28 <0.005
1701788	Drill Core	3.33 <0.005
1701789	Drill Core	3.36 <0.005
1701790	Drill Core	3.42 <0.005
1701791	Drill Core	3.18 0.005
1701792	Drill Core	3.22 <0.005
1701793	Drill Core	3.18 <0.005
1701794	Drill Core	3.54 <0.005
1701795	Rock Pulp	0.05 0.248
1701796	Drill Core	3.09 <0.005
1701797	Drill Core	3.41 <0.005
1701798	Drill Core	3.66 <0.005
1701799	Drill Core	3.57 <0.005
1701800	Rock	0.14 0.005
1701801	Drill Core	3.30 <0.005
1701802	Drill Core	3.33 <0.005
1701803	Drill Core	3.47 <0.005
1701804	Drill Core	3.51 <0.005
1701805	Drill Core	3.36 <0.005
1701806	Drill Core	3.34 0.006
1701807	Drill Core	3.47 0.007
1701808	Drill Core	3.69 0.007
1701809	Drill Core	3.05 0.005
1701810	Drill Core	3.58 0.008
1701811	Drill Core	3.56 0.006
1701812	Drill Core	3.77 0.007
1701813	Drill Core	3.40 0.005
1701814	Drill Core	3.13 0.006



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Client: **Aurelius Minerals**
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: April 18, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000576.1

	Method	WGHT	FA430
	Analyte	Wgt	Au
	Unit	kg	ppm
	MDL	0.01	0.005
1701815	Drill Core	3.45	<0.005
1701816	Drill Core	3.62	0.006
1701817	Drill Core	3.59	0.007
1701818	Drill Core	3.65	<0.005
1701819	Drill Core	3.71	0.008
1701820	Rock Pulp	0.05	0.255
1701821	Drill Core	3.88	<0.005
1701822	Drill Core	3.38	0.010
1701823	Drill Core	3.97	<0.005
1701824	Drill Core	3.27	0.008



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Client: Aurelius Minerals
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Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: April 18, 2018

Page: 1 of 2

Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000576.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
Pulp Duplicates		
1701748	Drill Core	3.20 <0.005
REP 1701748	QC	<0.005
1701749	Drill Core	2.94 <0.005
REP 1701749	QC	<0.005
1701810	Drill Core	3.58 0.008
REP 1701810	QC	0.007
1701821	Drill Core	3.88 <0.005
REP 1701821	QC	<0.005
Core Reject Duplicates		
1701731	Drill Core	2.98 <0.005
DUP 1701731	QC	<0.005
1701765	Drill Core	3.12 <0.005
DUP 1701765	QC	<0.005
1701799	Drill Core	3.57 <0.005
DUP 1701799	QC	<0.005
Reference Materials		
STD OXC145	Standard	0.208
STD OXC145	Standard	0.204
STD OXC145	Standard	0.218
STD OXH122	Standard	1.279
STD OXH122	Standard	1.166
STD OXH122	Standard	1.310
STD OXN117	Standard	7.148
STD OXN117	Standard	7.626
STD OXN117	Standard	7.684
STD OXC145 Expected		0.212
STD OXH122 Expected		1.247
STD OXN117 Expected		7.679



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: April 18, 2018

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Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000576.1

		WGHT	FA430
		Wgt	Au
		kg	ppm
		0.01	0.005
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-TIM	Prep Blank		<0.005
ROCK-TIM	Prep Blank		<0.005



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: April 07, 2018
Report Date: April 27, 2018
Page: 1 of 5

CERTIFICATE OF ANALYSIS

TIM18000577.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID: BATCH#017
P.O. Number
Number of Samples: 93

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.

Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	88	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	4	Sort, label and box pulps			TIM
FA430	92	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	92	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS



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: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: April 27, 2018

Page: 2 of 5

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000577.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1701825	Rock	0.15 <0.005
1701826	Drill Core	3.06 0.006
1701827	Drill Core	4.23 0.007
1701828	Drill Core	3.26 0.007
1701829	Drill Core	3.26 0.013
1701830	Drill Core	3.14 0.010
1701831	Drill Core	3.09 0.028
1701832	Drill Core	3.07 0.034
1701833	Drill Core	3.19 0.457
1701834	Drill Core	2.69 0.048
1701835	Drill Core	L.N.R. L.N.R.
1701836	Drill Core	3.59 0.025
1701837	Drill Core	3.47 0.010
1701838	Drill Core	3.43 0.067
1701839	Drill Core	3.17 0.010
1701840	Drill Core	3.26 0.060
1701841	Drill Core	2.88 0.005
1701842	Drill Core	3.81 0.036
1701843	Drill Core	3.12 0.009
1701844	Drill Core	3.41 0.040
1701845	Rock Pulp	0.07 0.322
1701846	Drill Core	3.47 0.067
1701847	Drill Core	3.05 <0.005
1701848	Drill Core	3.53 0.090
1701849	Drill Core	3.46 0.019
1701850	Rock	0.15 <0.005
1701851	Drill Core	3.21 0.024
1701852	Drill Core	3.32 0.038
1701853	Drill Core	3.35 0.005
1701854	Drill Core	3.33 0.009



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Project: Mikwam (MK)
Report Date: April 27, 2018

Page: 3 of 5

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000577.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1701855	Drill Core	3.17 <0.005
1701856	Drill Core	3.32 0.015
1701857	Drill Core	3.28 0.022
1701858	Drill Core	3.46 0.026
1701859	Drill Core	3.27 0.007
1701860	Drill Core	3.18 0.007
1701861	Drill Core	3.31 <0.005
1701862	Drill Core	3.31 0.010
1701863	Drill Core	3.58 0.029
1701864	Drill Core	3.24 0.034
1701865	Drill Core	3.43 0.020
1701866	Drill Core	3.19 <0.005
1701867	Drill Core	2.62 0.006
1701868	Drill Core	3.29 0.009
1701869	Drill Core	3.01 0.010
1701870	Rock Pulp	0.05 0.328
1701871	Drill Core	3.10 0.015
1701872	Drill Core	2.23 0.006
1701873	Drill Core	2.24 0.007
1701874	Drill Core	3.27 0.033
1701875	Rock	0.15 <0.005
1701876	Drill Core	3.37 0.031
1701877	Drill Core	3.41 0.051
1701878	Drill Core	3.37 0.059
1701879	Drill Core	3.46 <0.005
1701880	Drill Core	3.46 0.005
1701881	Drill Core	3.12 0.095
1701882	Drill Core	3.73 0.006
1701883	Drill Core	3.32 <0.005
1701884	Drill Core	3.42 <0.005



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Client: Aurelius Minerals
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Project: Mikwam (MK)
Report Date: April 27, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000577.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1701885	Rock Pulp	0.07 6.375
1701886	Drill Core	3.34 <0.005
1701887	Drill Core	3.42 <0.005
1701888	Drill Core	2.45 <0.005
1701889	Drill Core	3.02 0.006
1701890	Drill Core	3.51 <0.005
1701891	Drill Core	3.31 <0.005
1701892	Drill Core	3.56 0.005
1701893	Drill Core	3.65 <0.005
1701894	Drill Core	2.97 <0.005
1701895	Rock Pulp	0.06 0.322
1701896	Drill Core	3.34 <0.005
1701897	Drill Core	3.58 <0.005
1701898	Drill Core	3.51 <0.005
1701899	Drill Core	2.14 <0.005
1701900	Rock	0.14 <0.005
1701901	Drill Core	4.32 <0.005
1701902	Drill Core	2.36 <0.005
1701903	Drill Core	3.19 <0.005
1701904	Drill Core	2.32 <0.005
1701905	Drill Core	3.58 0.005
1701906	Drill Core	1.35 0.007
1701907	Drill Core	1.64 0.025
1701908	Drill Core	0.95 <0.005
1701909	Drill Core	1.28 0.009
1701910	Drill Core	1.11 0.005
1701911	Drill Core	1.98 0.006
1701912	Drill Core	2.47 <0.005
1701913	Drill Core	3.34 0.009
1701914	Drill Core	3.06 0.006



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Project: Mikwam (MK)
Report Date: April 27, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000577.1

	Method	WGHT	FA430
	Analyte	Wgt	Au
	Unit	kg	ppm
	MDL	0.01	0.005
1701915	Drill Core	3.23	<0.005
1701916	Drill Core	3.29	0.005
1701917	Drill Core	3.20	0.151



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

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: April 27, 2018

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Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000577.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
Pulp Duplicates		
1701864	Drill Core	3.24 0.034
REP 1701864	QC	0.030
1701886	Drill Core	3.34 <0.005
REP 1701886	QC	<0.005
Core Reject Duplicates		
1701840	Drill Core	3.26 0.060
DUP 1701840	QC	0.072
1701874	Drill Core	3.27 0.033
DUP 1701874	QC	0.040
1701908	Drill Core	0.95 <0.005
DUP 1701908	QC	<0.005
Reference Materials		
STD OXC145	Standard	0.218
STD OXC145	Standard	0.220
STD OXC145	Standard	0.205
STD OXC145	Standard	0.214
STD OXC145	Standard	0.210
STD OXH122	Standard	1.310
STD OXH122	Standard	1.209
STD OXH122	Standard	1.173
STD OXH122	Standard	1.239
STD OXN117	Standard	7.684
STD OXN117	Standard	7.867
STD OXN117	Standard	7.308
STD OXN117	Standard	7.201
STD OXN117	Standard	7.493
STD OXC145 Expected		0.212
STD OXH122 Expected		1.247



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Project: Mikwam (MK)
Report Date: April 27, 2018

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QUALITY CONTROL REPORT

TIM18000577.1

		WGHT	FA430
		Wgt	Au
		kg	ppm
		0.01	0.005
STD OXN117 Expected			7.679
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
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-TIM	Prep Blank		<0.005
ROCK-TIM	Prep Blank		<0.005



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

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: April 13, 2018
Report Date: April 27, 2018
Page: 1 of 5

CERTIFICATE OF ANALYSIS

TIM18000680.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID: BATCH#018
P.O. Number
Number of Samples: 100

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.

Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	94	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	6	Sort, label and box pulps			TIM
FA430	100	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	100	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS



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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Project: Mikwam (MK)
Report Date: April 27, 2018

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CERTIFICATE OF ANALYSIS

TIM18000680.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1701918	Drill Core	1.89 0.009
1701919	Drill Core	1.81 0.020
1701920	Rock Pulp	0.07 0.331
1701921	Drill Core	3.10 0.307
1701922	Drill Core	2.64 0.007
1701923	Drill Core	2.60 0.006
1701924	Drill Core	2.32 <0.005
1701925	Rock	0.16 <0.005
1701926	Drill Core	1.94 0.006
1701927	Drill Core	1.88 0.014
1701928	Drill Core	1.76 0.007
1701929	Drill Core	2.38 0.008
1701930	Drill Core	2.32 0.008
1701931	Drill Core	2.10 0.008
1701932	Drill Core	2.42 0.008
1701933	Drill Core	2.14 0.008
1701934	Drill Core	2.49 0.012
1701935	Rock Pulp	0.04 6.406
1701936	Drill Core	2.78 0.149
1701937	Drill Core	2.25 1.558
1701938	Drill Core	1.94 0.672
1701939	Drill Core	2.03 0.056
1701940	Drill Core	2.29 <0.005
1701941	Drill Core	2.40 <0.005
1701942	Drill Core	2.29 0.007
1701943	Drill Core	2.32 0.006
1701944	Drill Core	2.34 0.009
1701945	Rock Pulp	0.06 0.335
1701946	Drill Core	2.69 <0.005
1701947	Drill Core	2.09 0.008



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Client: Aurelius Minerals
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Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: April 27, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000680.1

Method	Analyte	WGHT	FA430
		Wgt	Au
Unit		kg	ppm
MDL		0.01	0.005
1701948	Drill Core	2.15	0.008
1701949	Drill Core	2.28	0.006
1701950	Rock	0.15	<0.005
1701951	Drill Core	2.46	<0.005
1701952	Drill Core	2.89	<0.005
1701953	Drill Core	1.92	<0.005
1701954	Drill Core	2.32	0.006
1701955	Drill Core	2.04	0.050
1701956	Drill Core	2.12	0.114
1701957	Drill Core	2.21	0.335
1701958	Drill Core	2.19	0.034
1701959	Drill Core	2.87	<0.005
1701960	Drill Core	2.42	<0.005
1701961	Drill Core	3.21	<0.005
1701962	Drill Core	3.24	<0.005
1701963	Drill Core	3.75	0.009
1701964	Drill Core	3.28	0.005
1701965	Drill Core	3.11	<0.005
1701966	Drill Core	3.22	<0.005
1701967	Drill Core	3.15	0.007
1701968	Drill Core	3.68	0.008
1701969	Drill Core	3.08	<0.005
1701970	Rock Pulp	0.09	0.348
1701971	Drill Core	3.38	<0.005
1701972	Drill Core	3.02	<0.005
1701973	Drill Core	3.13	<0.005
1701974	Drill Core	2.86	<0.005
1701975	Rock	0.14	<0.005
1701976	Drill Core	3.20	<0.005
1701977	Drill Core	3.10	0.008



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Project: Mikwam (MK)
Report Date: April 27, 2018

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CERTIFICATE OF ANALYSIS

TIM18000680.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1701978	Drill Core	3.35 <0.005
1701979	Drill Core	3.24 <0.005
1701980	Drill Core	3.64 <0.005
1701981	Drill Core	2.69 <0.005
1701982	Drill Core	2.43 <0.005
1701983	Drill Core	3.07 0.009
1701984	Drill Core	3.35 <0.005
1701985	Rock Pulp	0.04 6.241
1701986	Drill Core	3.33 0.008
1701987	Drill Core	3.42 <0.005
1701988	Drill Core	2.86 <0.005
1701989	Drill Core	3.16 <0.005
1701990	Drill Core	3.37 <0.005
1701991	Drill Core	3.54 <0.005
1701992	Drill Core	3.66 0.013
1701993	Drill Core	3.33 0.078
1701994	Drill Core	2.68 <0.005
1701995	Rock Pulp	0.07 0.344
1701996	Drill Core	2.87 <0.005
1701997	Drill Core	3.00 <0.005
1701998	Drill Core	3.31 <0.005
1701999	Drill Core	3.45 <0.005
1702000	Rock	0.14 0.005
1702001	Drill Core	3.18 0.009
1702002	Drill Core	2.76 <0.005
1702003	Drill Core	1.76 <0.005
1702004	Drill Core	2.08 <0.005
1702005	Drill Core	2.36 0.009
1702006	Drill Core	2.18 0.011
1702007	Drill Core	2.00 0.007



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Project: Mikwam (MK)
Report Date: April 27, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000680.1

	Method	WGHT	FA430
	Analyte	Wgt	Au
	Unit	kg	ppm
	MDL	0.01	0.005
1702008	Drill Core	2.70	<0.005
1702009	Drill Core	2.56	<0.005
1702010	Drill Core	1.78	<0.005
1702011	Drill Core	2.57	<0.005
1702012	Drill Core	2.48	0.074
1702013	Drill Core	2.29	0.010
1702014	Drill Core	2.30	<0.005
1702015	Drill Core	1.96	0.018
1702016	Drill Core	2.35	<0.005
1702017	Drill Core	2.50	0.049



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Project: Mikwam (MK)
Report Date: April 27, 2018

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QUALITY CONTROL REPORT

TIM18000680.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
Pulp Duplicates		
1701919	Drill Core	1.81 0.020
REP 1701919	QC	0.049
1701982	Drill Core	2.43 <0.005
REP 1701982	QC	<0.005
Core Reject Duplicates		
1701933	Drill Core	2.14 0.008
DUP 1701933	QC	0.011
1701967	Drill Core	3.15 0.007
DUP 1701967	QC	0.006
1702001	Drill Core	3.18 0.009
DUP 1702001	QC	0.009
Reference Materials		
STD OXC145	Standard	0.208
STD OXC145	Standard	0.201
STD OXC145	Standard	0.214
STD OXH122	Standard	1.287
STD OXH122	Standard	1.248
STD OXH122	Standard	1.234
STD OXN117	Standard	7.418
STD OXN117	Standard	7.445
STD OXN117	Standard	7.422
STD OXC145 Expected		0.212
STD OXH122 Expected		1.247
STD OXN117 Expected		7.679
BLK	Blank	<0.005
BLK	Blank	0.005
BLK	Blank	<0.005
BLK	Blank	<0.005



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Project: Mikwam (MK)
Report Date: April 27, 2018

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QUALITY CONTROL REPORT

TIM18000680.1

		WGHT	FA430
		Wgt	Au
		kg	ppm
		0.01	0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
Prep Wash			
ROCK-TIM	Prep Blank		<0.005
ROCK-TIM	Prep Blank		<0.005



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: April 13, 2018
Report Date: April 30, 2018
Page: 1 of 5

CERTIFICATE OF ANALYSIS

TIM18000681.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID: BATCH#018
P.O. Number
Number of Samples: 100

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.

Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	94	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	6	Sort, label and box pulps			TIM
FA430	100	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	100	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS



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: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: April 30, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000681.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1702018	Drill Core	2.61 0.045
1702019	Drill Core	2.34 <0.005
1702020	Rock Pulp	0.07 0.319
1702021	Drill Core	2.26 <0.005
1702022	Drill Core	2.46 0.041
1702023	Drill Core	2.15 0.022
1702024	Drill Core	2.41 0.009
1702025	Rock	0.21 <0.005
1702026	Drill Core	2.34 0.010
1702027	Drill Core	2.24 0.015
1702028	Drill Core	2.08 0.007
1702029	Drill Core	3.65 0.034
1702030	Drill Core	3.09 0.050
1702031	Drill Core	2.75 <0.005
1702032	Drill Core	3.28 <0.005
1702033	Drill Core	3.39 <0.005
1702034	Drill Core	3.43 <0.005
1702035	Rock Pulp	0.06 6.220
1702036	Drill Core	3.73 0.039
1702037	Drill Core	3.87 0.044
1702038	Drill Core	3.24 0.009
1702039	Drill Core	3.79 0.021
1702040	Drill Core	3.24 0.047
1702041	Drill Core	3.23 0.370
1702042	Drill Core	4.26 0.050
1702043	Drill Core	1.87 0.077
1702044	Drill Core	2.40 0.005
1702045	Rock Pulp	0.05 0.321
1702046	Drill Core	4.27 <0.005
1702047	Drill Core	3.13 <0.005



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Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: April 30, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000681.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1702048	Drill Core	4.42 0.022
1702049	Drill Core	3.39 0.008
1702050	Rock	0.20 <0.005
1702051	Drill Core	3.17 0.007
1702052	Drill Core	3.86 0.011
1702053	Drill Core	3.34 0.009
1702054	Drill Core	3.14 <0.005
1702055	Drill Core	3.56 0.157
1702056	Drill Core	3.16 0.071
1702057	Drill Core	3.23 0.038
1702058	Drill Core	3.39 0.029
1702059	Drill Core	3.30 0.034
1702060	Drill Core	2.27 0.061
1702061	Drill Core	4.23 0.153
1702062	Drill Core	3.06 0.089
1702063	Drill Core	3.04 0.021
1702064	Drill Core	3.15 0.011
1702065	Drill Core	3.56 0.006
1702066	Drill Core	2.14 0.009
1702067	Drill Core	2.19 <0.005
1702068	Drill Core	6.48 <0.005
1702069	Drill Core	1.85 <0.005
1702070	Rock Pulp	0.08 0.332
1702071	Drill Core	1.65 <0.005
1702072	Drill Core	2.10 <0.005
1702073	Drill Core	1.30 <0.005
1702074	Drill Core	1.56 0.005
1702075	Rock	0.14 <0.005
1702076	Drill Core	2.15 0.005
1702077	Drill Core	1.42 0.007



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Project: Mikwam (MK)
Report Date: April 30, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000681.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1702078	Drill Core	1.15 0.006
1702079	Drill Core	1.16 0.012
1702080	Drill Core	2.58 0.031
1702081	Drill Core	3.12 0.026
1702082	Drill Core	1.37 0.071
1702083	Drill Core	1.10 0.098
1702084	Drill Core	2.43 0.295
1702085	Rock Pulp	0.06 6.445
1702086	Drill Core	1.97 0.446
1702087	Drill Core	2.21 0.104
1702088	Drill Core	1.95 0.120
1702089	Drill Core	2.13 0.721
1702090	Drill Core	2.11 1.735
1702091	Drill Core	1.65 0.436
1702092	Drill Core	1.93 0.620
1702093	Drill Core	2.34 1.025
1702094	Drill Core	2.12 1.679
1702095	Rock Pulp	0.08 0.336
1702096	Drill Core	2.28 0.771
1702097	Drill Core	2.15 1.223
1702098	Drill Core	2.46 1.285
1702099	Drill Core	2.05 0.253
1702100	Rock	0.13 <0.005
1702101	Drill Core	2.31 0.071
1702102	Drill Core	2.06 0.309
1702103	Drill Core	2.04 0.016
1702104	Drill Core	2.03 0.011
1702105	Drill Core	1.97 0.080
1702106	Drill Core	1.88 0.027
1702107	Drill Core	1.83 0.051



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Project: Mikwam (MK)
Report Date: April 30, 2018

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CERTIFICATE OF ANALYSIS

TIM18000681.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1702108	Drill Core	1.74 0.061
1702109	Drill Core	1.97 0.178
1702110	Drill Core	2.00 0.255
1702111	Drill Core	2.25 0.124
1702112	Drill Core	2.12 0.025
1702113	Drill Core	1.68 0.018
1702114	Drill Core	2.23 0.030
1702115	Drill Core	2.69 0.008
1702116	Drill Core	1.68 0.014
1702117	Drill Core	2.19 0.044



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Client: Aurelius Minerals
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Project: Mikwam (MK)
Report Date: April 30, 2018

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Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000681.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
Pulp Duplicates		
1702018	Drill Core	2.61 0.045
REP 1702018	QC	0.047
1702064	Drill Core	3.15 0.011
REP 1702064	QC	0.013
1702067	Drill Core	2.19 <0.005
REP 1702067	QC	<0.005
Core Reject Duplicates		
1702027	Drill Core	2.24 0.015
DUP 1702027	QC	0.013
1702061	Drill Core	4.23 0.153
DUP 1702061	QC	0.150
Reference Materials		
STD OXC145	Standard	0.201
STD OXC145	Standard	0.215
STD OXH122	Standard	1.248
STD OXH122	Standard	1.205
STD OXN117	Standard	7.445
STD OXN117	Standard	7.356
STD OXC145 Expected		0.212
STD OXH122 Expected		1.247
STD OXN117 Expected		7.679
BLK	Blank	<0.005
BLK	Blank	<0.005
BLK	Blank	<0.005
BLK	Blank	<0.005
Prep Wash		
ROCK-TIM	Prep Blank	<0.005
ROCK-TIM	Prep Blank	<0.005



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

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: April 13, 2018
Report Date: May 04, 2018
Page: 1 of 4

CERTIFICATE OF ANALYSIS

TIM18000682.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID: BATCH#018
P.O. Number
Number of Samples: 74

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.

Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	68	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	6	Sort, label and box pulps			TIM
FA430	74	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	74	Environmental disposal charge-Fire assay lead waste			TIM
FA530	1	Lead collection fire assay 30G fusion - Grav finish	30	Completed	TIM

ADDITIONAL COMMENTS



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: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: May 04, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000682.1

Method	WGHT	FA430	FA530
Analyte	Wgt	Au	Au
Unit	kg	ppm	gm/t
MDL	0.01	0.005	0.9
1702118	Drill Core	2.16	0.009
1702119	Drill Core	2.08	0.007
1702120	Rock Pulp	0.07	0.327
1702121	Drill Core	2.08	0.014
1702122	Drill Core	1.81	0.021
1702123	Drill Core	2.40	0.009
1702124	Drill Core	3.69	0.088
1702125	Rock	0.22	<0.005
1702126	Drill Core	3.05	0.043
1702127	Drill Core	3.58	0.049
1702128	Drill Core	3.15	0.070
1702129	Drill Core	3.11	0.200
1702130	Drill Core	3.43	0.048
1702131	Drill Core	2.38	<0.005
1702132	Drill Core	3.29	0.011
1702133	Drill Core	2.88	0.011
1702134	Drill Core	3.19	0.008
1702135	Rock Pulp	0.05	6.487
1702136	Drill Core	2.38	<0.005
1702137	Drill Core	2.08	0.009
1702138	Drill Core	2.03	0.008
1702139	Drill Core	1.14	0.007
1702140	Drill Core	1.84	<0.005
1702141	Drill Core	4.32	0.009
1702142	Drill Core	3.71	0.008
1702143	Drill Core	2.39	<0.005
1702144	Drill Core	3.03	<0.005
1702145	Rock Pulp	0.04	6.486
1702146	Drill Core	2.65	<0.005
1702147	Drill Core	3.34	<0.005



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: May 04, 2018

Page: 3 of 4

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000682.1

Method	WGHT	FA430	FA530
Analyte	Wgt	Au	Au
Unit	kg	ppm	gm/t
MDL	0.01	0.005	0.9
1702148	Drill Core	3.13	<0.005
1702149	Drill Core	3.33	<0.005
1702150	Rock	0.17	<0.005
1702151	Drill Core	3.78	<0.005
1702152	Drill Core	2.79	<0.005
1702153	Drill Core	3.29	<0.005
1702154	Drill Core	3.08	<0.005
1702155	Drill Core	3.60	<0.005
1702156	Drill Core	3.16	<0.005
1702157	Drill Core	3.17	<0.005
1702158	Drill Core	3.33	<0.005
1702159	Drill Core	3.63	0.096
1702160	Drill Core	3.14	0.019
1702161	Drill Core	3.47	0.043
1702162	Drill Core	1.94	0.016
1702163	Drill Core	1.95	0.043
1702164	Drill Core	1.61	0.174
1702165	Drill Core	1.97	0.092
1702166	Drill Core	2.02	1.486
1702167	Drill Core	3.13	0.094
1702168	Drill Core	2.25	1.607
1702169	Drill Core	1.94	0.856
1702170	Rock Pulp	0.05	6.481
1702171	Drill Core	1.61	0.253
1702172	Drill Core	2.25	1.155
1702173	Drill Core	2.26	1.959
1702174	Drill Core	2.38	1.472
1702175	Rock	0.16	<0.005
1702176	Drill Core	2.29	2.582
1702177	Drill Core	2.68	1.586



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: May 04, 2018

Page: 4 of 4

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000682.1

Method	WGHT	FA430	FA530
Analyte	Wgt	Au	Au
Unit	kg	ppm	gm/t
MDL	0.01	0.005	0.9
1702178	Drill Core	2.53	8.821
1702179	Drill Core	1.88	1.855
1702180	Drill Core	2.32	3.454
1702181	Drill Core	2.25	4.758
1702182	Drill Core	2.63	3.746
1702183	Drill Core	2.52	8.129
1702184	Drill Core	2.35	>10 30.2
1702185	Rock Pulp	0.05	6.544
1702186	Drill Core	1.92	0.392
1702187	Drill Core	2.44	2.375
1702188	Drill Core	2.24	7.834
1702189	Drill Core	2.00	0.199
1702190	Drill Core	2.26	2.578
1701835	Rock Pulp	0.08	6.391



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: May 04, 2018

Page: 1 of 2

Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000682.1

Method	WGHT	FA430	FA530
Analyte	Wgt	Au	Au
Unit	kg	ppm	gm/t
MDL	0.01	0.005	0.9
Pulp Duplicates			
1702136	Drill Core	2.38	<0.005
REP 1702136	QC		<0.005
1702184	Drill Core	2.35	>10 30.2
REP 1702184	QC		>10
Core Reject Duplicates			
1702143	Drill Core	2.39	<0.005
DUP 1702143	QC		<0.005
1702177	Drill Core	2.68	1.586
DUP 1702177	QC		1.652
Reference Materials			
STD OXC145	Standard		0.215
STD OXC145	Standard		0.219
STD OXH122	Standard		1.205
STD OXH122	Standard		1.272
STD OXN117	Standard		7.356
STD OXN117	Standard		7.193
STD OXP116	Standard		15.9
STD OXP116	Standard		16.2
STD OXQ90	Standard		24.7
STD OXC145 Expected		0.212	
STD OXH122 Expected		1.247	
STD OXN117 Expected		7.679	
STD OXQ90 Expected			24.88
STD OXP116 Expected			14.92
BLK	Blank	<0.005	
BLK	Blank	<0.005	
BLK	Blank	<0.005	
BLK	Blank	<0.005	



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Client: **Aurelius Minerals**
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: May 04, 2018

Page: 2 of 2

Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000682.1

		WGHT	FA430	FA530
		Wgt	Au	Au
		kg	ppm	gm/t
		0.01	0.005	0.9
BLK	Blank			<0.9
Prep Wash				
ROCK-TIM	Prep Blank		<0.005	
ROCK-TIM	Prep Blank		<0.005	



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: April 20, 2018
Report Date: May 25, 2018
Page: 1 of 5

CERTIFICATE OF ANALYSIS

TIM18000749.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID: BATCH#019
P.O. Number
Number of Samples: 110

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.

Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	110	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	110	Sort, label and box pulps			TIM
FA430	110	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	110	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS



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: Aurelius Minerals
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Project: Mikwam (MK)
Report Date: May 25, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000749.1

Method	Analyte	WGHT	FA430
		Wgt	Au
Unit		kg	ppm
MDL		0.01	0.005
1702191	Drill Core	2.05	<0.005
1702192	Drill Core	3.31	<0.005
1702193	Drill Core	3.17	<0.005
1702194	Drill Core	3.59	<0.005
1702195	Rock Pulp	0.03	6.504
1702196	Drill Core	3.51	0.008
1702197	Drill Core	3.13	0.006
1702198	Drill Core	3.42	0.006
1702199	Drill Core	3.77	<0.005
1702200	Rock	0.17	0.014
1702201	Drill Core	3.00	0.007
1702202	Drill Core	3.61	0.032
1702203	Drill Core	3.33	<0.005
1702204	Drill Core	3.08	<0.005
1702205	Drill Core	3.33	<0.005
1702206	Drill Core	2.74	0.006
1702207	Drill Core	3.99	<0.005
1702208	Drill Core	3.85	0.005
1702209	Drill Core	3.66	<0.005
1702210	Drill Core	3.40	<0.005
1702211	Drill Core	2.61	<0.005
1702212	Drill Core	3.55	0.009
1702213	Drill Core	3.26	0.005
1702214	Drill Core	3.05	0.007
1702215	Drill Core	2.91	0.008
1702216	Drill Core	3.42	<0.005
1702217	Drill Core	2.98	<0.005
1702218	Drill Core	2.96	<0.005
1702219	Drill Core	3.26	<0.005
1702220	Rock Pulp	0.04	5.239



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: May 25, 2018

Page: 3 of 5

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000749.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1702221	Drill Core	2.84 <0.005
1702222	Drill Core	2.58 0.005
1702223	Drill Core	2.28 <0.005
1702224	Drill Core	2.67 0.015
1702225	Rock	0.15 <0.005
1702226	Drill Core	3.54 0.022
1702227	Drill Core	3.05 0.018
1702228	Drill Core	3.19 0.020
1702229	Drill Core	3.55 0.013
1702230	Drill Core	2.93 0.028
1702231	Drill Core	3.07 0.037
1702232	Drill Core	2.68 0.039
1702233	Drill Core	3.83 0.015
1702234	Drill Core	3.37 0.020
1702235	Rock Pulp	0.04 6.276
1702236	Drill Core	3.63 0.026
1702237	Drill Core	3.95 0.039
1702238	Drill Core	3.38 0.191
1702239	Drill Core	3.65 0.041
1702240	Drill Core	3.77 0.056
1702241	Drill Core	4.17 0.104
1702242	Drill Core	3.07 <0.005
1702243	Drill Core	3.36 <0.005
1702244	Drill Core	4.00 0.006
1702245	Rock Pulp	0.06 0.492
1702246	Drill Core	3.31 0.006
1702247	Drill Core	3.95 <0.005
1702248	Drill Core	3.68 0.011
1702249	Drill Core	3.31 0.013
1702250	Rock	0.15 <0.005



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
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Project: Mikwam (MK)
Report Date: May 25, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000749.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1702251	Drill Core	3.53 <0.005
1702252	Drill Core	3.90 <0.005
1702253	Drill Core	3.86 <0.005
1702254	Drill Core	3.30 <0.005
1702255	Drill Core	3.22 0.017
1702256	Drill Core	3.97 0.016
1702257	Drill Core	3.09 <0.005
1702258	Drill Core	3.55 <0.005
1702259	Drill Core	2.84 0.006
1702260	Drill Core	2.93 <0.005
1702261	Drill Core	1.63 <0.005
1702262	Drill Core	3.99 <0.005
1702263	Drill Core	2.76 <0.005
1702264	Drill Core	2.97 0.018
1702265	Drill Core	3.34 0.030
1702266	Drill Core	2.99 0.007
1702267	Drill Core	2.45 0.011
1702268	Drill Core	3.09 0.011
1702269	Drill Core	3.08 0.015
1702270	Rock Pulp	0.07 0.503
1702271	Drill Core	3.42 0.010
1702272	Drill Core	3.75 0.013
1702273	Drill Core	3.05 0.022
1702274	Drill Core	3.34 0.017
1702275	Rock	<0.01 0.005
1702276	Drill Core	2.73 0.016
1702277	Drill Core	2.60 0.020
1702278	Drill Core	3.48 0.027
1702279	Drill Core	3.54 0.016
1702280	Drill Core	3.25 0.028



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Client: Aurelius Minerals
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Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: May 25, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000749.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1702281	Drill Core	3.61 0.027
1702282	Drill Core	3.73 0.050
1702283	Drill Core	3.01 0.018
1702284	Drill Core	3.47 0.023
1702285	Rock Pulp	0.06 0.534
1702286	Drill Core	3.55 0.020
1702287	Drill Core	3.28 0.011
1702288	Drill Core	2.98 0.008
1702289	Drill Core	2.94 0.009
1702290	Drill Core	3.51 0.009
1702291	Drill Core	3.41 <0.005
1702292	Drill Core	3.53 0.009
1702293	Drill Core	3.27 0.009
1702294	Drill Core	3.57 0.017
1702295	Rock Pulp	0.07 0.533
1702296	Drill Core	3.35 0.026
1702297	Drill Core	3.51 0.023
1702298	Drill Core	2.75 0.007
1702299	Drill Core	3.54 0.006
1702300	Rock	0.21 <0.005



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Client: Aurelius Minerals
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Project: Mikwam (MK)
Report Date: May 25, 2018

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Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000749.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
Pulp Duplicates		
1702201	Drill Core	3.00 0.007
REP 1702201	QC	0.007
REP 1702228	QC	0.015
1702263	Drill Core	2.76 <0.005
REP 1702263	QC	<0.005
1702288	Drill Core	2.98 0.008
REP 1702288	QC	<0.005
REP 1702296	QC	0.023
Core Reject Duplicates		
1702194	Drill Core	3.59 <0.005
DUP 1702194	QC	0.009
1702228	Drill Core	3.19 0.020
DUP 1702228	QC	0.013
1702262	Drill Core	3.99 <0.005
DUP 1702262	QC	<0.005
1702296	Drill Core	3.35 0.026
DUP 1702296	QC	0.024
Reference Materials		
STD OXC145	Standard	0.208
STD OXC145	Standard	0.218
STD OXC145	Standard	0.210
STD OXC145	Standard	0.222
STD OXC145	Standard	0.217
STD OXC145	Standard	0.213
STD OXC145	Standard	0.208
STD OXC145	Standard	0.204
STD OXC145	Standard	0.215
STD OXC145	Standard	0.199



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PHONE (604) 253-3158

Client: Aurelius Minerals
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Project: Mikwam (MK)
Report Date: May 25, 2018

Page: 2 of 3

Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000749.1

		WGHT	FA430
		Wgt	Au
		kg	ppm
		0.01	0.005
STD OXH122	Standard		1.257
STD OXH122	Standard		1.235
STD OXH122	Standard		1.220
STD OXH122	Standard		1.169
STD OXH122	Standard		1.213
STD OXH122	Standard		1.224
STD OXH122	Standard		1.214
STD OXH122	Standard		1.209
STD OXH122	Standard		1.218
STD OXH122	Standard		1.209
STD OXN117	Standard		7.504
STD OXN117	Standard		7.418
STD OXN134	Standard		7.536
STD OXN134	Standard		7.488
STD OXN134	Standard		7.635
STD OXN134	Standard		7.485
STD OXN134	Standard		7.467
STD OXN134	Standard		7.330
STD OXN117 Expected			7.679
STD OXC145 Expected			0.212
STD OXH122 Expected			1.247
STD OXN134 Expected			7.667
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005



Bureau Veritas Commodities Canada Ltd.

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PHONE (604) 253-3158

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: May 25, 2018

Page: 3 of 3

Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000749.1

		WGHT	FA430
		Wgt	Au
		kg	ppm
		0.01	0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
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-TIM	Prep Blank		<0.005
ROCK-TIM	Prep Blank		<0.005



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

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: April 20, 2018
Report Date: May 15, 2018
Page: 1 of 5

CERTIFICATE OF ANALYSIS

TIM18000750.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID: BATCH#019
P.O. Number
Number of Samples: 110

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.

Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	104	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	6	Sort, label and box pulps			TIM
FA430	110	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	110	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS



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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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: May 15, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000750.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1702301	Drill Core	3.73 0.007
1702302	Drill Core	3.63 0.049
1702303	Drill Core	3.51 <0.005
1702304	Drill Core	3.42 0.009
1702305	Drill Core	3.24 0.039
1702306	Drill Core	3.37 0.014
1702307	Drill Core	3.43 0.016
1702308	Drill Core	3.62 0.009
1702309	Drill Core	3.13 0.010
1702310	Drill Core	3.90 0.010
1702311	Drill Core	3.26 0.007
1702312	Drill Core	3.66 0.009
1702313	Drill Core	3.33 <0.005
1702314	Drill Core	3.84 <0.005
1702315	Drill Core	2.92 0.005
1702316	Drill Core	3.10 0.007
1702317	Drill Core	3.91 0.009
1702318	Drill Core	3.66 0.013
1702319	Drill Core	3.21 0.008
1702320	Rock Pulp	0.05 6.374
1702321	Drill Core	4.12 0.008
1702322	Drill Core	2.28 0.006
1702323	Drill Core	5.07 0.009
1702324	Drill Core	3.56 0.008
1702325	Rock	0.17 <0.005
1702326	Drill Core	3.80 0.010
1702327	Drill Core	3.61 0.039
1702328	Drill Core	3.85 0.020
1702329	Drill Core	3.58 0.005
1702330	Drill Core	4.00 0.017



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Project: Mikwam (MK)
Report Date: May 15, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000750.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1702331	Drill Core	3.73 0.006
1702332	Drill Core	3.95 0.016
1702333	Drill Core	4.07 0.014
1702334	Drill Core	4.14 0.043
1702335	Rock Pulp	0.07 6.374
1702336	Drill Core	2.75 0.010
1702337	Drill Core	4.67 0.006
1702338	Drill Core	2.93 <0.005
1702339	Drill Core	3.59 <0.005
1702340	Drill Core	3.77 0.006
1702341	Drill Core	3.52 0.006
1702342	Drill Core	3.41 0.006
1702343	Drill Core	3.23 0.008
1702344	Drill Core	4.01 0.006
1702345	Rock Pulp	0.09 0.526
1702346	Drill Core	3.79 0.027
1702347	Drill Core	2.38 0.028
1702348	Drill Core	3.64 0.011
1702349	Drill Core	3.16 0.009
1702350	Rock	0.17 <0.005
1702351	Drill Core	3.14 0.016
1702352	Drill Core	3.19 0.009
1702353	Drill Core	3.26 <0.005
1702354	Drill Core	3.07 0.009
1702355	Drill Core	3.81 <0.005
1702356	Drill Core	2.96 0.006
1702357	Drill Core	2.03 0.013
1702358	Drill Core	3.40 <0.005
1702359	Drill Core	3.95 0.005
1702360	Drill Core	3.70 <0.005



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Project: Mikwam (MK)
Report Date: May 15, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000750.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1702361	Drill Core	3.55 <0.005
1702362	Drill Core	3.39 0.062
1702363	Drill Core	3.08 0.010
1702364	Drill Core	3.08 0.083
1702365	Drill Core	3.23 0.007
1702366	Drill Core	1.76 0.008
1702367	Drill Core	3.02 0.014
1702368	Drill Core	2.47 0.016
1702369	Drill Core	3.54 0.091
1702370	Rock Pulp	0.08 0.506
1702371	Drill Core	3.81 0.065
1702372	Drill Core	2.76 0.031
1702373	Drill Core	3.78 0.062
1702374	Drill Core	2.92 0.007
1702375	Rock	0.21 <0.005
1702376	Drill Core	3.22 0.007
1702377	Drill Core	4.00 0.012
1702378	Drill Core	3.54 0.017
1702379	Drill Core	3.16 0.006
1702380	Drill Core	3.55 0.010
1702381	Drill Core	3.67 0.016
1702382	Drill Core	3.50 <0.005
1702383	Drill Core	2.57 <0.005
1702384	Drill Core	1.79 <0.005
1702385	Rock Pulp	0.06 6.154
1702386	Drill Core	2.52 <0.005
1702387	Drill Core	2.36 0.050
1702388	Drill Core	4.02 0.025
1702389	Drill Core	1.97 0.006
1702390	Drill Core	2.25 <0.005



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Project: Mikwam (MK)
Report Date: May 15, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000750.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1702391	Drill Core	3.04 <0.005
1702392	Drill Core	3.94 0.010
1702393	Drill Core	2.57 0.013
1702394	Drill Core	3.21 0.006
1702395	Rock Pulp	0.06 0.513
1702396	Drill Core	1.84 0.009
1702397	Drill Core	3.53 0.005
1702398	Drill Core	3.02 <0.005
1702399	Drill Core	2.92 0.011
1702400	Rock	0.17 <0.005
1702401	Drill Core	3.50 0.006
1702402	Drill Core	2.88 0.009
1702403	Drill Core	2.96 0.011
1702404	Drill Core	3.27 0.018
1702405	Drill Core	3.16 0.012
1702406	Drill Core	3.39 0.010
1702407	Drill Core	3.01 <0.005
1702408	Drill Core	2.11 0.008
1702409	Drill Core	1.60 0.015
1702410	Drill Core	2.90 <0.005



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Project: Mikwam (MK)
Report Date: May 15, 2018

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Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000750.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
Pulp Duplicates		
1702301	Drill Core	3.73 0.007
REP 1702301	QC	<0.005
REP 1702346	QC	0.027
1702379	Drill Core	3.16 0.006
REP 1702379	QC	<0.005
1702403	Drill Core	2.96 0.011
REP 1702403	QC	<0.005
Core Reject Duplicates		
1702312	Drill Core	3.66 0.009
DUP 1702312	QC	<0.005
1702346	Drill Core	3.79 0.027
DUP 1702346	QC	0.029
1702380	Drill Core	3.55 0.010
DUP 1702380	QC	<0.005
Reference Materials		
STD OXC145	Standard	0.208
STD OXC145	Standard	0.201
STD OXC145	Standard	0.218
STD OXC145	Standard	0.207
STD OXC145	Standard	0.210
STD OXC145	Standard	0.204
STD OXC145	Standard	0.217
STD OXC145	Standard	0.210
STD OXH122	Standard	1.257
STD OXH122	Standard	1.228
STD OXH122	Standard	1.235
STD OXH122	Standard	1.269
STD OXH122	Standard	1.220



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Project: Mikwam (MK)
Report Date: May 15, 2018

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QUALITY CONTROL REPORT

TIM18000750.1

		WGHT	FA430
		Wgt	Au
		kg	ppm
		0.01	0.005
STD OXH122	Standard		1.228
STD OXH122	Standard		1.213
STD OXH122	Standard		1.246
STD OXN117	Standard		7.504
STD OXN117	Standard		7.332
STD OXN117	Standard		7.418
STD OXN134	Standard		7.365
STD OXN134	Standard		7.536
STD OXN134	Standard		7.648
STD OXN134	Standard		7.635
STD OXN134	Standard		7.283
STD OXN117 Expected			7.679
STD OXC145 Expected			0.212
STD OXH122 Expected			1.247
STD OXN134 Expected			7.667
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005



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Project: Mikwam (MK)
Report Date: May 15, 2018

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Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000750.1

		WGHT	FA430
		Wgt	Au
		kg	ppm
		0.01	0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
Prep Wash			
ROCK-TIM	Prep Blank		<0.005
ROCK-TIM	Prep Blank		<0.005



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PHONE (604) 253-3158

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: April 20, 2018
Report Date: May 16, 2018
Page: 1 of 5

CERTIFICATE OF ANALYSIS

TIM18000751.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID: BATCH#019
P.O. Number
Number of Samples: 110

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.

Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	103	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	7	Sort, label and box pulps			TIM
FA430	110	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	110	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS



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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Project: Mikwam (MK)
Report Date: May 16, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000751.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1702411	Drill Core	2.93 <0.005
1702412	Drill Core	3.25 0.010
1702413	Drill Core	3.09 0.008
1702414	Drill Core	3.91 0.010
1702415	Drill Core	3.41 0.008
1702416	Drill Core	2.76 0.006
1702417	Drill Core	3.32 0.006
1702418	Drill Core	2.93 0.009
1702419	Drill Core	3.02 <0.005
1702420	Rock Pulp	0.07 0.530
1702421	Drill Core	3.75 0.006
1702422	Drill Core	3.18 0.006
1702423	Drill Core	2.26 <0.005
1702424	Drill Core	3.12 0.005
1702425	Rock	0.19 <0.005
1702426	Drill Core	3.21 <0.005
1702427	Drill Core	2.88 0.006
1702428	Drill Core	3.26 0.005
1702429	Drill Core	2.99 0.011
1702430	Drill Core	3.05 0.010
1702431	Drill Core	1.89 0.006
1702432	Drill Core	1.98 0.007
1702433	Drill Core	2.66 0.005
1702434	Drill Core	3.24 <0.005
1702435	Rock Pulp	0.05 6.448
1702436	Drill Core	3.05 0.007
1702437	Drill Core	2.95 0.006
1702438	Drill Core	3.53 <0.005
1702439	Drill Core	2.59 0.012
1702440	Drill Core	3.86 0.018



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Project: Mikwam (MK)
Report Date: May 16, 2018

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CERTIFICATE OF ANALYSIS

TIM18000751.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1702441	Drill Core	3.08 0.011
1702442	Drill Core	3.12 0.012
1702443	Drill Core	3.13 0.046
1702444	Drill Core	4.04 0.006
1702445	Rock Pulp	0.06 6.497
1702446	Drill Core	3.24 0.026
1702447	Drill Core	3.49 0.018
1702448	Drill Core	3.27 0.028
1702449	Drill Core	3.58 0.008
1702450	Rock	0.18 <0.005
1702451	Drill Core	3.33 <0.005
1702452	Drill Core	3.21 0.034
1702453	Drill Core	3.09 0.031
1702454	Drill Core	3.53 0.036
1702455	Drill Core	3.26 0.041
1702456	Drill Core	3.53 0.063
1702457	Drill Core	3.30 0.075
1702458	Drill Core	3.72 0.015
1702459	Drill Core	3.50 0.012
1702460	Drill Core	3.13 0.011
1702461	Drill Core	4.15 0.008
1702462	Drill Core	3.43 <0.005
1702463	Drill Core	3.62 <0.005
1702464	Drill Core	3.32 0.005
1702465	Drill Core	3.80 <0.005
1702466	Drill Core	3.67 <0.005
1702467	Drill Core	3.74 <0.005
1702468	Drill Core	3.10 <0.005
1702469	Drill Core	3.82 <0.005
1702470	Rock Pulp	0.06 6.545



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Project: Mikwam (MK)
Report Date: May 16, 2018

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CERTIFICATE OF ANALYSIS

TIM18000751.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1702471	Drill Core	3.76 0.017
1702472	Drill Core	3.51 <0.005
1702473	Drill Core	3.68 <0.005
1702474	Drill Core	3.47 <0.005
1702475	Rock	0.15 <0.005
1702476	Drill Core	3.99 <0.005
1702477	Drill Core	3.06 <0.005
1702478	Drill Core	3.44 <0.005
1702479	Drill Core	3.70 <0.005
1702480	Drill Core	3.38 <0.005
1702481	Drill Core	2.35 <0.005
1702482	Drill Core	2.19 0.011
1702483	Drill Core	3.55 0.005
1702484	Drill Core	3.57 <0.005
1702485	Rock Pulp	0.05 6.575
1702486	Drill Core	3.46 0.013
1702487	Drill Core	3.33 0.007
1702488	Drill Core	3.11 <0.005
1702489	Drill Core	3.63 <0.005
1702490	Drill Core	2.71 0.006
1702491	Drill Core	3.12 <0.005
1702492	Drill Core	2.80 <0.005
1702493	Drill Core	3.59 <0.005
1702494	Drill Core	3.44 0.007
1702495	Rock Pulp	0.04 6.447
1702496	Drill Core	2.81 0.013
1702497	Drill Core	4.29 0.006
1702498	Drill Core	3.18 <0.005
1702499	Drill Core	4.50 <0.005
1702500	Rock	0.17 <0.005



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Project: Mikwam (MK)
Report Date: May 16, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000751.1

	Method	WGHT	FA430
		Wgt	Au
	Analyte	kg	ppm
	Unit		
	MDL	0.01	0.005
1702501	Drill Core	3.20	0.006
1702502	Drill Core	3.73	<0.005
1702503	Drill Core	2.22	<0.005
1702504	Drill Core	0.33	<0.005
1702505	Drill Core	2.52	<0.005
1702506	Drill Core	2.90	<0.005
1702507	Drill Core	2.13	<0.005
1702508	Drill Core	2.44	0.007
1702509	Drill Core	1.05	0.006
1702510	Drill Core	1.93	0.006
1702511	Drill Core	2.49	0.007
1702512	Drill Core	2.11	<0.005
1702513	Drill Core	2.59	<0.005
1702514	Drill Core	3.52	0.005
1702515	Drill Core	3.22	<0.005
1702516	Drill Core	3.62	<0.005
1702517	Drill Core	3.17	<0.005
1702518	Drill Core	3.77	<0.005
1702519	Drill Core	3.11	<0.005
1702520	Rock Pulp	0.05	6.339



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Project: Mikwam (MK)
Report Date: May 16, 2018

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QUALITY CONTROL REPORT

TIM18000751.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
Pulp Duplicates		
1702448	Drill Core	3.27 0.028
REP 1702448	QC	0.026
1702504	Drill Core	0.33 <0.005
REP 1702504	QC	<0.005
Core Reject Duplicates		
1702433	Drill Core	2.66 0.005
DUP 1702433	QC	<0.005
1702467	Drill Core	3.74 <0.005
DUP 1702467	QC	<0.005
1702501	Drill Core	3.20 0.006
DUP 1702501	QC	<0.005
Reference Materials		
STD OXC145	Standard	0.222
STD OXC145	Standard	0.204
STD OXC145	Standard	0.215
STD OXC145	Standard	0.213
STD OXH122	Standard	1.169
STD OXH122	Standard	1.228
STD OXH122	Standard	1.232
STD OXH122	Standard	1.224
STD OXN134	Standard	7.488
STD OXN134	Standard	7.648
STD OXN134	Standard	7.863
STD OXN134	Standard	7.485
STD OXC145 Expected		0.212
STD OXH122 Expected		1.247
STD OXN134 Expected		7.667
BLK	Blank	<0.005



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Project: Mikwam (MK)
Report Date: May 16, 2018

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Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000751.1

		WGHT	FA430
		Wgt	Au
		kg	ppm
		0.01	0.005
BLK	Blank		<0.005
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-TIM	Prep Blank		<0.005
ROCK-TIM	Prep Blank		<0.005



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

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: April 20, 2018
Report Date: May 14, 2018
Page: 1 of 6

CERTIFICATE OF ANALYSIS

TIM18000752.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID: BATCH#019
P.O. Number
Number of Samples: 123

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.

Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	116	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	7	Sort, label and box pulps			TIM
FA430	123	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	123	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS



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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Project: Mikwam (MK)
Report Date: May 14, 2018

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CERTIFICATE OF ANALYSIS

TIM18000752.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1702521	Drill Core	3.28 <0.005
1702522	Drill Core	2.90 <0.005
1702523	Drill Core	4.17 0.005
1702524	Drill Core	3.75 <0.005
1702525	Rock	0.12 <0.005
1702526	Drill Core	3.62 0.009
1702527	Drill Core	2.17 <0.005
1702528	Drill Core	4.67 <0.005
1702529	Drill Core	3.44 0.005
1702530	Drill Core	3.26 <0.005
1702531	Drill Core	3.78 <0.005
1702532	Drill Core	3.72 <0.005
1702533	Drill Core	3.23 <0.005
1702534	Drill Core	3.85 0.007
1702535	Rock Pulp	6.336
1702536	Drill Core	3.28 <0.005
1702537	Drill Core	3.30 <0.005
1702538	Drill Core	3.41 <0.005
1702539	Drill Core	3.11 <0.005
1702540	Drill Core	2.92 <0.005
1702541	Drill Core	3.05 <0.005
1702542	Drill Core	1.43 <0.005
1702543	Drill Core	1.54 0.008
1702544	Drill Core	2.08 <0.005
1702545	Rock Pulp	0.03 0.511
1702546	Drill Core	3.12 0.008
1702547	Drill Core	3.52 0.006
1702548	Drill Core	5.89 <0.005
1702549	Drill Core	2.27 <0.005
1702550	Rock	0.18 <0.005



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Project: Mikwam (MK)
Report Date: May 14, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000752.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1702551	Drill Core	2.85 <0.005
1702552	Drill Core	3.03 <0.005
1702553	Drill Core	3.10 <0.005
1702554	Drill Core	2.82 <0.005
1702555	Drill Core	3.18 <0.005
1702556	Drill Core	2.36 0.011
1702557	Drill Core	1.63 0.026
1702558	Drill Core	1.43 <0.005
1702559	Drill Core	3.84 0.011
1702560	Drill Core	2.45 <0.005
1702561	Drill Core	2.31 <0.005
1702562	Drill Core	2.89 <0.005
1702563	Drill Core	2.75 <0.005
1702564	Drill Core	2.67 <0.005
1702565	Drill Core	2.51 <0.005
1702566	Drill Core	3.01 <0.005
1702567	Drill Core	2.80 0.006
1702568	Drill Core	2.75 0.008
1702569	Drill Core	3.01 <0.005
1702570	Rock Pulp	0.07 0.534
1702571	Drill Core	3.18 0.009
1702572	Drill Core	3.02 <0.005
1702573	Drill Core	2.92 <0.005
1702574	Drill Core	2.63 <0.005
1702575	Rock	0.17 <0.005
1702576	Drill Core	1.88 0.008
1702577	Drill Core	2.97 <0.005
1702578	Drill Core	3.48 <0.005
1702579	Drill Core	2.95 <0.005
1702580	Drill Core	3.16 0.006



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: May 14, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000752.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1702581	Drill Core	2.70 0.005
1702582	Drill Core	2.95 0.005
1702583	Drill Core	2.92 0.008
1702584	Drill Core	3.42 0.006
1702585	Rock Pulp	0.05 6.295
1702586	Drill Core	2.64 0.011
1702587	Drill Core	3.25 <0.005
1702588	Drill Core	3.06 <0.005
1702589	Drill Core	3.11 0.007
1702590	Drill Core	3.11 0.006
1702591	Drill Core	3.25 0.007
1702592	Drill Core	3.06 <0.005
1702593	Drill Core	2.92 <0.005
1702594	Drill Core	2.98 0.010
1702595	Rock Pulp	0.06 0.516
1702596	Drill Core	3.08 0.013
1702597	Drill Core	2.95 0.008
1702598	Drill Core	2.88 0.011
1702599	Drill Core	3.05 <0.005
1702600	Rock	0.18 <0.005
1702601	Drill Core	2.87 <0.005
1702602	Drill Core	2.85 <0.005
1702603	Drill Core	3.03 0.013
1702604	Drill Core	3.02 <0.005
1702605	Drill Core	2.94 0.014
1702606	Drill Core	2.10 0.010
1702607	Drill Core	1.84 0.062
1702608	Drill Core	3.28 0.006
1702609	Drill Core	3.25 0.006
1702610	Drill Core	3.06 0.139



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Project: Mikwam (MK)
Report Date: May 14, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000752.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1702611	Drill Core	1.83 0.007
1702612	Drill Core	3.08 0.011
1702613	Drill Core	3.29 0.024
1702614	Drill Core	3.09 0.016
1702615	Drill Core	2.49 0.016
1702616	Drill Core	3.19 0.011
1702617	Drill Core	3.41 0.007
1702618	Drill Core	3.08 0.008
1702619	Drill Core	2.15 0.006
1702620	Rock Pulp	0.06 0.531
1702621	Drill Core	3.97 0.021
1702622	Drill Core	3.30 0.007
1702623	Drill Core	3.15 0.008
1702624	Drill Core	2.75 0.029
1702625	Rock	0.17 <0.005
1702626	Drill Core	2.56 0.007
1702627	Drill Core	3.19 0.008
1702628	Drill Core	2.32 0.017
1702629	Drill Core	2.13 0.014
1702630	Drill Core	2.07 0.019
1702631	Drill Core	2.01 0.017
1702632	Drill Core	2.27 0.010
1702633	Drill Core	1.97 0.007
1702634	Drill Core	2.18 0.011
1702635	Rock Pulp	0.04 7.137
1702636	Drill Core	2.26 0.026
1702637	Drill Core	2.12 0.015
1702638	Drill Core	2.03 0.006
1702639	Drill Core	3.45 0.008
1702640	Drill Core	3.17 0.022



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Client: **Aurelius Minerals**
625 Howe Street, Suite 1020
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Project: Mikwam (MK)
Report Date: May 14, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000752.1

	Method	WGHT	FA430
	Analyte	Wgt	Au
	Unit	kg	ppm
	MDL	0.01	0.005
1702641	Drill Core	3.40	0.007
1702642	Drill Core	3.07	0.008
1702643	Drill Core	3.39	0.008



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Project: Mikwam (MK)
Report Date: May 14, 2018

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Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000752.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
Pulp Duplicates		
1702574	Drill Core	2.63 <0.005
REP 1702574	QC	<0.005
1702590	Drill Core	3.11 0.006
REP 1702590	QC	<0.005
Core Reject Duplicates		
1702529	Drill Core	3.44 0.005
DUP 1702529	QC	<0.005
1702563	Drill Core	2.75 <0.005
DUP 1702563	QC	<0.005
1702597	Drill Core	2.95 0.008
DUP 1702597	QC	0.006
1702631	Drill Core	2.01 0.017
DUP 1702631	QC	0.014
Reference Materials		
STD OXC145	Standard	0.204
STD OXC145	Standard	0.215
STD OXC145	Standard	0.217
STD OXH122	Standard	1.228
STD OXH122	Standard	1.190
STD OXH122	Standard	1.213
STD OXN134	Standard	7.648
STD OXN134	Standard	7.722
STD OXN134	Standard	7.635
STD OXC145 Expected		0.212
STD OXH122 Expected		1.247
STD OXN134 Expected		7.667
BLK	Blank	<0.005
BLK	Blank	<0.005



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Project: Mikwam (MK)
Report Date: May 14, 2018

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Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000752.1

		WGHT	FA430
		Wgt	Au
		kg	ppm
		0.01	0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
Prep Wash			
ROCK-TIM	Prep Blank		<0.005
ROCK-TIM	Prep Blank		<0.005



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

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: April 24, 2018
Report Date: May 17, 2018
Page: 1 of 5

CERTIFICATE OF ANALYSIS

TIM18000790.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID:
P.O. Number
Number of Samples: 110

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.

Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	103	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	7	Sort, label and box pulps			TIM
FA430	110	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	110	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS



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: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: May 17, 2018

Page: 2 of 5

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000790.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1702644	Drill Core	3.49 0.006
1702645	Rock Pulp	0.07 0.531
1702646	Drill Core	3.05 0.014
1702647	Drill Core	2.23 0.010
1702648	Drill Core	2.36 0.005
1702649	Drill Core	3.12 0.006
1702650	Rock	0.17 <0.005
1702651	Drill Core	3.05 0.019
1702652	Drill Core	2.65 0.008
1702653	Drill Core	2.69 0.012
1702654	Drill Core	3.24 0.049
1702655	Drill Core	2.52 0.025
1702656	Drill Core	2.85 0.114
1702657	Drill Core	2.42 0.005
1702658	Drill Core	3.21 <0.005
1702659	Drill Core	3.04 0.012
1702660	Drill Core	3.15 0.026
1702661	Drill Core	2.14 0.013
1702662	Drill Core	3.27 0.075
1702663	Drill Core	1.87 0.409
1702664	Drill Core	2.19 0.038
1702665	Drill Core	2.64 0.016
1702666	Drill Core	2.26 <0.005
1702667	Drill Core	4.07 <0.005
1702668	Drill Core	3.26 0.033
1702669	Drill Core	3.19 0.006
1702670	Rock Pulp	0.05 6.640
1702671	Drill Core	3.17 0.013
1702672	Drill Core	3.72 <0.005
1702673	Drill Core	3.22 0.006



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Project: Mikwam (MK)
Report Date: May 17, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000790.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1702674	Drill Core	3.16 0.038
1702675	Rock	0.16 <0.005
1702676	Drill Core	3.27 <0.005
1702677	Drill Core	3.30 0.007
1702678	Drill Core	3.13 0.006
1702679	Drill Core	3.40 <0.005
1702680	Drill Core	3.29 <0.005
1702681	Drill Core	3.25 0.006
1702682	Drill Core	3.26 0.025
1702683	Drill Core	3.27 <0.005
1702684	Drill Core	3.06 0.007
1702685	Rock Pulp	0.04 6.329
1702686	Drill Core	2.96 0.012
1702687	Drill Core	3.04 <0.005
1702688	Drill Core	3.33 <0.005
1702689	Drill Core	3.22 <0.005
1702690	Drill Core	3.16 <0.005
1702691	Drill Core	2.27 0.007
1702692	Drill Core	4.27 0.006
1702693	Drill Core	3.17 0.006
1702694	Drill Core	3.15 <0.005
1702695	Rock Pulp	0.06 0.520
1702696	Drill Core	2.20 0.009
1702697	Drill Core	2.12 <0.005
1702698	Drill Core	2.35 <0.005
1702699	Drill Core	3.12 0.005
1702700	Rock	0.19 <0.005
1702701	Drill Core	3.24 <0.005
1702702	Drill Core	2.99 0.005
1702703	Drill Core	3.08 <0.005



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Project: Mikwam (MK)
Report Date: May 17, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000790.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1702704	Drill Core	2.89 <0.005
1702705	Drill Core	3.28 <0.005
1702706	Drill Core	2.25 <0.005
1702707	Drill Core	3.10 <0.005
1702708	Drill Core	2.25 <0.005
1702709	Drill Core	3.70 <0.005
1702710	Drill Core	3.64 <0.005
1702711	Drill Core	2.79 <0.005
1702712	Drill Core	3.32 <0.005
1702713	Drill Core	2.66 <0.005
1702714	Drill Core	2.87 <0.005
1702715	Drill Core	2.93 <0.005
1702716	Drill Core	3.09 <0.005
1702717	Drill Core	2.32 <0.005
1702718	Drill Core	3.08 <0.005
1702719	Drill Core	2.75 <0.005
1702720	Rock Pulp	0.05 6.565
1702721	Drill Core	3.37 0.007
1702722	Drill Core	3.01 <0.005
1702723	Drill Core	2.88 <0.005
1702724	Drill Core	3.27 <0.005
1702725	Rock	0.20 <0.005
1702726	Drill Core	2.59 <0.005
1702727	Drill Core	3.42 <0.005
1702728	Drill Core	2.61 <0.005
1702729	Drill Core	3.00 <0.005
1702730	Drill Core	2.91 <0.005
1702731	Drill Core	3.23 <0.005
1702732	Drill Core	2.38 <0.005
1702733	Drill Core	3.55 <0.005



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Project: Mikwam (MK)
Report Date: May 17, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000790.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1702734	Drill Core	2.84 <0.005
1702735	Rock Pulp	0.06 6.466
1702736	Drill Core	2.97 <0.005
1702737	Drill Core	3.10 0.007
1702738	Drill Core	3.24 <0.005
1702739	Drill Core	3.26 <0.005
1702740	Drill Core	3.27 <0.005
1702741	Drill Core	3.35 <0.005
1702742	Drill Core	3.38 <0.005
1702743	Drill Core	3.03 <0.005
1702744	Drill Core	3.07 <0.005
1702745	Rock Pulp	0.05 6.398
1702746	Drill Core	3.43 0.005
1702747	Drill Core	2.73 <0.005
1702748	Drill Core	3.28 <0.005
1702749	Drill Core	3.21 <0.005
1702750	Rock	0.20 <0.005
1702751	Drill Core	2.93 <0.005
1702752	Drill Core	3.39 <0.005
1702753	Drill Core	3.08 <0.005



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PHONE (604) 253-3158

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: May 17, 2018

Page: 1 of 2

Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000790.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
Pulp Duplicates		
1702707	Drill Core	3.10 <0.005
REP 1702707	QC	<0.005
1702719	Drill Core	2.75 <0.005
REP 1702719	QC	<0.005
1702742	Drill Core	3.38 <0.005
REP 1702742	QC	<0.005
1702747	Drill Core	2.73 <0.005
REP 1702747	QC	<0.005
Core Reject Duplicates		
1702669	Drill Core	3.19 0.006
DUP 1702669	QC	0.005
1702703	Drill Core	3.08 <0.005
DUP 1702703	QC	<0.005
1702737	Drill Core	3.10 0.007
DUP 1702737	QC	0.008
Reference Materials		
STD OXC145	Standard	0.217
STD OXC145	Standard	0.210
STD OXC145	Standard	0.211
STD OXC145	Standard	0.210
STD OXC145	Standard	0.213
STD OXH122	Standard	1.213
STD OXH122	Standard	1.246
STD OXH122	Standard	1.165
STD OXH122	Standard	1.223
STD OXH122	Standard	1.220
STD OXN134	Standard	7.635
STD OXN134	Standard	7.283



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: May 17, 2018

Page: 2 of 2

Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000790.1

		WGHT	FA430
		Wgt	Au
		kg	ppm
		0.01	0.005
STD OXN134	Standard		7.555
STD OXN134	Standard		7.534
STD OXN134	Standard		7.471
STD OXC145	Expected		0.212
STD OXH122	Expected		1.247
STD OXN134	Expected		7.667
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
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-TIM	Prep Blank		0.005
ROCK-TIM	Prep Blank		<0.005



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PHONE (604) 253-3158

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: April 24, 2018
Report Date: May 17, 2018
Page: 1 of 5

CERTIFICATE OF ANALYSIS

TIM18000791.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID:
P.O. Number
Number of Samples: 105

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.

Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	99	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	6	Sort, label and box pulps			TIM
FA430	105	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	105	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS



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: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: May 17, 2018

Page: 2 of 5

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000791.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1702754	Drill Core	3.06 <0.005
1702755	Drill Core	3.33 <0.005
1702756	Drill Core	3.91 <0.005
1702757	Drill Core	2.70 <0.005
1702758	Drill Core	2.95 <0.005
1702759	Drill Core	3.28 0.006
1702760	Drill Core	3.28 0.006
1702761	Drill Core	2.83 <0.005
1702762	Drill Core	3.54 <0.005
1702763	Drill Core	3.16 0.005
1702764	Drill Core	3.32 0.007
1702765	Drill Core	3.66 <0.005
1702766	Drill Core	2.74 0.007
1702767	Drill Core	2.78 <0.005
1702768	Drill Core	3.08 <0.005
1702769	Drill Core	3.32 0.010
1702770	Rock Pulp	0.05 6.312
1702771	Drill Core	3.73 0.007
1702772	Drill Core	2.83 <0.005
1702773	Drill Core	3.14 <0.005
1702774	Drill Core	3.38 <0.005
1702775	Rock	0.19 <0.005
1702776	Drill Core	3.02 <0.005
1702777	Drill Core	3.14 <0.005
1702778	Drill Core	3.53 <0.005
1702779	Drill Core	2.80 <0.005
1702780	Drill Core	3.50 <0.005
1702781	Drill Core	2.64 <0.005
1702782	Drill Core	3.01 0.006
1702783	Drill Core	2.83 <0.005



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PHONE (604) 253-3158

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: May 17, 2018

Page: 3 of 5

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000791.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1702784	Drill Core	3.20 <0.005
1702785	Rock Pulp	0.06 6.528
1702786	Drill Core	2.25 0.008
1702787	Drill Core	3.04 0.035
1702788	Drill Core	3.49 <0.005
1702789	Drill Core	3.32 <0.005
1702790	Drill Core	2.97 <0.005
1702791	Drill Core	2.07 <0.005
1702792	Drill Core	3.55 <0.005
1702793	Drill Core	2.97 <0.005
1702794	Drill Core	3.21 <0.005
1702795	Rock Pulp	0.05 6.556
1702796	Drill Core	3.03 <0.005
1702797	Drill Core	3.10 <0.005
1702798	Drill Core	3.05 0.006
1702799	Drill Core	3.42 <0.005
1702800	Rock	0.23 <0.005
1702801	Drill Core	2.68 0.006
1702802	Drill Core	3.30 0.009
1702803	Drill Core	2.89 <0.005
1702804	Drill Core	3.17 <0.005
1702805	Drill Core	2.72 <0.005
1702806	Drill Core	2.68 <0.005
1702807	Drill Core	2.85 0.008
1702808	Drill Core	3.35 <0.005
1702809	Drill Core	2.33 <0.005
1702810	Drill Core	3.97 <0.005
1702811	Drill Core	2.02 <0.005
1702812	Drill Core	2.99 <0.005
1702813	Drill Core	2.55 <0.005



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: May 17, 2018

Page: 4 of 5

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000791.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1702814	Drill Core	3.03 <0.005
1702815	Drill Core	3.53 <0.005
1702816	Drill Core	2.85 <0.005
1702817	Drill Core	2.97 <0.005
1702818	Drill Core	2.79 <0.005
1702819	Drill Core	2.85 <0.005
1702820	Rock Pulp	0.05 6.595
1702821	Drill Core	3.01 0.019
1702822	Drill Core	2.69 <0.005
1702823	Drill Core	2.98 0.007
1702824	Drill Core	2.72 0.005
1702825	Rock	0.20 <0.005
1702826	Drill Core	1.90 <0.005
1702827	Drill Core	1.71 <0.005
1702828	Drill Core	1.79 <0.005
1702829	Drill Core	2.47 <0.005
1702830	Drill Core	1.98 <0.005
1702831	Drill Core	2.83 <0.005
1702832	Drill Core	3.69 <0.005
1702833	Drill Core	3.39 <0.005
1702834	Drill Core	2.76 <0.005
1702835	Rock Pulp	0.04 6.565
1702836	Drill Core	3.25 0.007
1702837	Drill Core	4.00 <0.005
1702838	Drill Core	2.07 <0.005
1702839	Drill Core	3.04 <0.005
1702840	Drill Core	3.00 <0.005
1702841	Drill Core	2.57 <0.005
1702842	Drill Core	3.51 <0.005
1702843	Drill Core	3.34 0.020



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625 Howe Street, Suite 1020
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Project: Mikwam (MK)
Report Date: May 17, 2018

Page: 5 of 5

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18000791.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1702844	Drill Core	2.72 <0.005
1702845	Rock Pulp	0.05 6.528
1702846	Drill Core	2.80 0.006
1702847	Drill Core	2.38 0.030
1702848	Drill Core	2.86 <0.005
1702849	Drill Core	2.87 <0.005
1702850	Rock	0.20 <0.005
1702851	Drill Core	2.97 <0.005
1702852	Drill Core	3.03 <0.005
1702853	Drill Core	2.94 0.011
1702854	Drill Core	2.76 <0.005
1702855	Drill Core	2.93 <0.005
1702856	Drill Core	3.04 <0.005
1702857	Drill Core	3.20 <0.005
1702858	Drill Core	1.98 <0.005



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: May 17, 2018

Page: 1 of 2

Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000791.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
Pulp Duplicates		
1702771	Drill Core	3.73 0.007
REP 1702771	QC	<0.005
1702831	Drill Core	2.83 <0.005
REP 1702831	QC	<0.005
Core Reject Duplicates		
1702759	Drill Core	3.28 0.006
DUP 1702759	QC	<0.005
1702793	Drill Core	2.97 <0.005
DUP 1702793	QC	<0.005
1702827	Drill Core	1.71 <0.005
DUP 1702827	QC	<0.005
Reference Materials		
STD OXC145	Standard	0.211
STD OXC145	Standard	0.216
STD OXC145	Standard	0.215
STD OXC145	Standard	0.210
STD OXC145	Standard	0.213
STD OXH122	Standard	1.165
STD OXH122	Standard	1.239
STD OXH122	Standard	1.232
STD OXH122	Standard	1.223
STD OXH122	Standard	1.220
STD OXN134	Standard	7.555
STD OXN134	Standard	7.863
STD OXN134	Standard	7.534
STD OXN134	Standard	7.471
STD OXC145 Expected		0.212
STD OXH122 Expected		1.247



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Client: Aurelius Minerals
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Project: Mikwam (MK)
Report Date: May 17, 2018

Page: 2 of 2

Part: 1 of 1

QUALITY CONTROL REPORT

TIM18000791.1

		WGHT	FA430
		Wgt	Au
		kg	ppm
		0.01	0.005
STD OXN134 Expected			7.667
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
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-TIM	Prep Blank		<0.005
ROCK-TIM	Prep Blank		<0.005



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

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: August 30, 2018
Report Date: September 06, 2018
Page: 1 of 3

CERTIFICATE OF ANALYSIS

TIM18001765.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID: Fall 2018 Batch #001
P.O. Number: Batch# 001
Number of Samples: 46

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.

Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	44	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	2	Sort, label and box pulps			TIM
FA430	46	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	46	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS


JEFFREY CANNON
Geochemistry Department Supervisor

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*** 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: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: September 06, 2018

Page: 2 of 3

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18001765.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1649001	Drill Core	1.74 0.074
1649002	Drill Core	2.27 0.037
1649003	Drill Core	1.94 0.040
1649004	Drill Core	2.10 0.017
1649005	Drill Core	1.98 0.022
1649006	Drill Core	2.08 0.047
1649007	Drill Core	1.99 0.037
1649008	Drill Core	2.21 0.039
1649009	Drill Core	2.59 0.024
1649010	Drill Core	2.27 0.085
1649011	Drill Core	2.29 0.070
1649012	Drill Core	1.49 0.173
1649013	Drill Core	1.38 0.121
1649014	Drill Core	2.12 0.125
1649015	Drill Core	1.83 0.161
1649016	Drill Core	2.72 1.649
1649017	Rock	0.13 0.008
1649018	Drill Core	2.79 1.696
1649019	Drill Core	2.63 0.131
1649020	Rock Pulp	0.07 0.341
1649021	Drill Core	3.16 0.149
1649022	Drill Core	2.25 0.212
1649023	Drill Core	2.27 0.725
1649024	Drill Core	2.52 0.292
1649025	Drill Core	1.75 0.633
1649026	Drill Core	2.05 0.019
1649027	Drill Core	2.15 0.027
1649028	Rock Pulp	0.06 6.647
1649029	Drill Core	2.28 0.058
1649030	Drill Core	2.28 0.254



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: September 06, 2018

Page: 3 of 3

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18001765.1

	Method	WGHT	FA430
	Analyte	Wgt	Au
	Unit	kg	ppm
	MDL	0.01	0.005
1649031	Drill Core	2.10	0.076
1649032	Drill Core	2.17	0.057
1649033	Drill Core	2.06	0.017
1649034	Drill Core	2.13	0.015
1649035	Drill Core	2.02	1.057
1649036	Drill Core	2.11	0.077
1649037	Drill Core	2.60	0.010
1649038	Rock	0.12	0.006
1649039	Drill Core	1.73	<0.005
1649040	Drill Core	2.61	0.008
1649041	Drill Core	2.32	<0.005
1649042	Drill Core	1.89	<0.005
1649043	Drill Core	2.31	<0.005
1649044	Drill Core	2.39	<0.005
1649045	Drill Core	1.64	<0.005
1649046	Drill Core	2.50	<0.005



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Project: Mikwam (MK)
Report Date: September 06, 2018

Page: 1 of 1 **Part:** 1 of 1

QUALITY CONTROL REPORT

TIM18001765.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
Pulp Duplicates		
1649024	Drill Core	2.52 0.292
REP 1649024	QC	0.308
1649029	Drill Core	2.28 0.058
REP 1649029	QC	0.051
Core Reject Duplicates		
1649025	Drill Core	1.75 0.633
DUP 1649025	QC	0.592
Reference Materials		
STD OXC145	Standard	0.216
STD OXC145	Standard	0.208
STD OXC145	Standard	0.198
STD OXH139	Standard	1.322
STD OXH139	Standard	1.308
STD OXN134	Standard	7.189
STD OXN134	Standard	7.673
STD OXN134	Standard	7.818
STD OXH139 Expected		1.312
STD OXC145 Expected		0.212
STD OXN134 Expected		7.667
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-TIM	Prep Blank	<0.005
ROCK-TIM	Prep Blank	<0.005



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PHONE (604) 253-3158

Client:

Aurelius Minerals

625 Howe Street, Suite 1020

Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan

Receiving Lab: Canada-Timmins

Received: August 30, 2018

Report Date: September 06, 2018

Page: 1 of 2

CERTIFICATE OF ANALYSIS

TIM18001807.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID:
P.O. Number: Batch # 020
Number of Samples: 9

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.

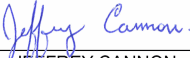
Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	9	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	0	Sort, label and box pulps			TIM
FA430	9	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	9	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS


JEFFREY CANNON
Geochemistry Department Supervisor

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Client: **Aurelius Minerals**
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: September 06, 2018

Page: 2 of 2

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18001807.1

	Method	WGHT	FA430
	Analyte	Wgt	Au
	Unit	kg	ppm
	MDL	0.01	0.005
1702901	Drill Core	0.98	<0.005
1702902	Drill Core	1.49	<0.005
1702903	Drill Core	2.55	<0.005
1702904	Drill Core	1.54	0.085
1702905	Drill Core	1.69	0.592
1702906	Drill Core	1.24	0.031
1702907	Drill Core	0.76	0.742
1702908	Drill Core	1.18	0.005
1702909	Drill Core	1.80	0.032



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: September 06, 2018

Page: 1 of 1

Part: 1 of 1

QUALITY CONTROL REPORT

TIM18001807.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
Core Reject Duplicates		
1702903	Drill Core	2.55 <0.005
DUP 1702903	QC	<0.005
Reference Materials		
STD OXC145	Standard	0.206
STD OXH139	Standard	1.221
STD OXN134	Standard	7.699
STD OXC145 Expected		0.212
STD OXN134 Expected		7.667
STD OXH139 Expected		1.312
BLK	Blank	<0.005
BLK	Blank	<0.005
Prep Wash		
ROCK-TIM	Prep Blank	<0.005
ROCK-TIM	Prep Blank	<0.005



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

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: September 05, 2018
Report Date: September 22, 2018
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CERTIFICATE OF ANALYSIS

TIM18001808.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID: Batch #002
P.O. Number: Batch #002
Number of Samples: 67

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.


Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	64	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	3	Sort, label and box pulps			TIM
FA430	67	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	67	Environmental disposal charge-Fire assay lead waste			TIM
LF300	1	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed	VAN
MA370	67	4-Acid Digestion ICP-ES Finish	0.5	Completed	VAN
SHP01	67	Per sample shipping charges for branch shipments			TIM

ADDITIONAL COMMENTS


JEFFREY CANNON
Geochemistry Department Supervisor



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: September 22, 2018

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CERTIFICATE OF ANALYSIS

TIM18001808.1

Method	WGHT	FA430	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300
Analyte	Wgt	Au	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	
Unit	kg	ppm	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	
1649047	Drill Core	2.15	0.005																		
1649048	Drill Core	1.90	<0.005																		
1649049	Drill Core	2.30	0.007																		
1649050	Drill Core	3.07	<0.005																		
1649051	Drill Core	2.05	<0.005																		
1649052	Drill Core	2.57	0.006																		
1649053	Drill Core	2.22	<0.005																		
1649054	Drill Core	2.50	<0.005																		
1649055	Drill Core	1.19	0.096																		
1649056	Rock	0.15	<0.005																		
1649057	Drill Core	1.31	0.073																		
1649058	Drill Core	1.18	0.117																		
1649059	Drill Core	1.36	0.686																		
1649060	Drill Core	1.98	0.467																		
1649061	Rock Pulp	0.05	6.417																		
1649062	Drill Core	3.21	0.206																		
1649063	Drill Core	2.30	0.133																		
1649064	Drill Core	1.46	0.160																		
1649065	Drill Core	1.74	0.187																		
1649066	Drill Core	1.92	0.213																		
1649067	Drill Core	2.28	0.093																		
1649068	Drill Core	2.35	0.039																		
1649069	Drill Core	2.27	0.022																		
1649070	Drill Core	2.10	0.027																		
1649071	Drill Core	2.11	0.096																		
1649072	Drill Core	2.18	0.398																		
1649073	Rock	0.11	<0.005																		
1649074	Drill Core	3.62	0.655																		
1649075	Drill Core	2.07	4.008																		
1649076	Rock Pulp	0.07	0.318																		



CERTIFICATE OF ANALYSIS

TIM18001808.1

Method	LF300	LF300	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370
Analyte	LOI	Sum	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg
Unit	%	%	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL	-5.1	0.01	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01
1649047	Drill Core		<0.001	0.002	<0.02	<0.01	<2	0.002	0.001	0.03	2.14	<0.02	0.02	<0.001	<0.01	<0.01	1.86	0.05	0.001	1.05
1649048	Drill Core		<0.001	0.002	<0.02	<0.01	<2	0.002	<0.001	0.02	1.80	<0.02	0.02	<0.001	<0.01	<0.01	1.14	0.03	0.002	0.74
1649049	Drill Core		<0.001	0.002	<0.02	<0.01	<2	0.002	0.001	0.02	1.90	<0.02	0.02	<0.001	<0.01	<0.01	1.02	0.05	0.001	0.55
1649050	Drill Core		<0.001	0.002	<0.02	0.01	<2	0.002	0.001	0.04	2.10	<0.02	0.03	<0.001	<0.01	<0.01	1.84	0.04	0.002	0.96
1649051	Drill Core		<0.001	0.002	<0.02	0.02	<2	0.002	0.001	0.04	2.36	<0.02	0.03	<0.001	<0.01	<0.01	1.84	0.05	0.003	0.86
1649052	Drill Core		<0.001	0.002	<0.02	0.02	<2	0.002	0.001	0.04	2.30	<0.02	0.03	<0.001	<0.01	<0.01	1.91	0.05	0.003	0.94
1649053	Drill Core		<0.001	0.002	<0.02	0.03	<2	0.002	0.001	0.04	2.25	<0.02	0.03	<0.001	<0.01	<0.01	1.84	0.05	0.002	0.91
1649054	Drill Core		<0.001	0.002	<0.02	0.02	<2	0.002	0.001	0.05	2.32	<0.02	0.03	<0.001	<0.01	<0.01	2.13	0.05	0.002	1.01
1649055	Drill Core		<0.001	0.004	<0.02	<0.01	<2	0.015	0.003	0.07	5.68	0.05	0.03	<0.001	<0.01	<0.01	3.52	0.04	0.014	1.65
1649056	Rock		<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.61	<0.02	<0.01	<0.001	<0.01	<0.01	0.02	<0.01	<0.001	0.02
1649057	Drill Core		<0.001	0.002	<0.02	<0.01	<2	0.007	0.002	0.05	4.22	0.06	0.03	<0.001	<0.01	<0.01	2.48	0.05	0.006	1.19
1649058	Drill Core		<0.001	0.003	<0.02	<0.01	<2	0.011	0.003	0.06	6.31	0.14	0.02	<0.001	<0.01	<0.01	2.90	0.04	0.008	1.50
1649059	Drill Core		<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	<0.01	1.85	<0.02	<0.01	<0.001	<0.01	<0.01	0.29	0.01	0.003	0.18
1649060	Drill Core		<0.001	0.004	<0.02	<0.01	<2	0.001	<0.001	<0.01	3.03	0.03	<0.01	<0.001	<0.01	<0.01	0.33	0.02	<0.001	0.18
1649061	Rock Pulp		<0.001	0.013	<0.02	<0.01	<2	0.017	0.004	0.09	5.16	<0.02	<0.01	<0.001	<0.01	<0.01	4.55	0.03	0.042	4.31
1649062	Drill Core		<0.001	0.002	<0.02	<0.01	<2	0.002	<0.001	0.05	3.04	<0.02	0.02	<0.001	<0.01	<0.01	1.40	0.03	0.003	0.77
1649063	Drill Core		<0.001	<0.001	<0.02	<0.01	<2	0.001	<0.001	<0.01	1.34	<0.02	0.01	<0.001	<0.01	<0.01	0.26	0.02	0.002	0.18
1649064	Drill Core		<0.001	<0.001	<0.02	0.02	<2	0.003	<0.001	0.01	1.65	0.06	0.02	<0.001	<0.01	<0.01	0.66	0.04	0.002	0.34
1649065	Drill Core		<0.001	<0.001	<0.02	0.02	<2	0.002	<0.001	0.03	1.69	0.24	0.02	<0.001	<0.01	<0.01	1.19	0.05	0.002	0.61
1649066	Drill Core		<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.03	1.77	0.40	0.02	<0.001	<0.01	<0.01	1.67	0.04	0.002	0.88
1649067	Drill Core		<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.03	1.68	0.08	0.02	<0.001	<0.01	<0.01	1.67	0.03	0.002	0.90
1649068	Drill Core		<0.001	0.001	<0.02	0.01	<2	0.003	<0.001	0.03	1.66	0.10	0.02	<0.001	<0.01	<0.01	1.48	0.04	0.002	0.79
1649069	Drill Core		<0.001	0.003	<0.02	0.02	<2	0.008	0.002	0.08	3.53	0.02	0.04	<0.001	<0.01	<0.01	5.25	0.11	0.014	2.02
1649070	Drill Core		<0.001	0.001	<0.02	<0.01	<2	0.003	<0.001	0.05	2.30	0.11	0.03	<0.001	<0.01	<0.01	1.74	0.04	0.002	0.81
1649071	Drill Core		<0.001	0.002	<0.02	<0.01	<2	0.003	0.001	0.05	2.82	0.09	0.03	<0.001	<0.01	<0.01	1.81	0.04	0.004	0.82
1649072	Drill Core		<0.001	0.002	<0.02	0.01	<2	0.003	0.001	0.03	2.18	0.07	0.03	<0.001	<0.01	<0.01	1.44	0.03	0.002	0.67
1649073	Rock		<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.67	<0.02	<0.01	<0.001	<0.01	<0.01	0.02	<0.01	<0.001	0.02
1649074	Drill Core		<0.001	0.002	<0.02	<0.01	<2	0.003	<0.001	0.03	1.79	0.04	0.03	<0.001	<0.01	<0.01	1.35	0.05	0.003	0.68
1649075	Drill Core		<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.58	<0.02	<0.01	<0.001	<0.01	<0.01	0.13	0.01	0.002	0.11
1649076	Rock Pulp		<0.001	0.011	<0.02	<0.01	<2	0.013	0.005	0.14	8.08	<0.02	0.03	<0.001	<0.01	<0.01	6.62	0.09	0.018	4.17



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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA370	MA370	MA370	MA370	MA370
		Al	Na	K	W	S
Unit		%	%	%	%	%
MDL		0.01	0.01	0.01	0.01	0.05
1649047	Drill Core	7.11	1.15	2.68	<0.01	1.42
1649048	Drill Core	7.26	1.13	2.77	<0.01	1.05
1649049	Drill Core	6.84	1.52	2.36	<0.01	1.19
1649050	Drill Core	7.05	1.85	2.23	<0.01	1.26
1649051	Drill Core	7.61	2.76	1.98	<0.01	1.45
1649052	Drill Core	7.82	2.76	2.04	<0.01	1.42
1649053	Drill Core	7.35	2.57	1.93	<0.01	1.22
1649054	Drill Core	7.52	2.94	1.82	<0.01	1.38
1649055	Drill Core	6.15	1.89	1.78	<0.01	5.13
1649056	Rock	0.18	0.04	0.06	<0.01	<0.05
1649057	Drill Core	6.50	2.25	1.78	<0.01	3.95
1649058	Drill Core	6.16	0.88	2.29	<0.01	5.96
1649059	Drill Core	0.96	0.22	0.28	<0.01	1.42
1649060	Drill Core	0.38	0.05	0.06	<0.01	2.73
1649061	Rock Pulp	5.76	1.50	0.70	<0.01	0.78
1649062	Drill Core	5.29	1.36	1.66	<0.01	1.96
1649063	Drill Core	4.42	1.01	1.60	<0.01	1.28
1649064	Drill Core	7.64	1.86	2.66	<0.01	1.43
1649065	Drill Core	9.31	1.96	3.39	<0.01	0.87
1649066	Drill Core	8.99	1.71	3.23	<0.01	0.75
1649067	Drill Core	8.99	1.74	3.30	<0.01	0.58
1649068	Drill Core	9.54	1.76	3.52	<0.01	0.63
1649069	Drill Core	7.26	0.57	3.11	<0.01	0.68
1649070	Drill Core	9.54	1.13	3.85	<0.01	0.85
1649071	Drill Core	8.97	0.73	3.83	<0.01	1.19
1649072	Drill Core	8.71	1.56	3.37	<0.01	0.71
1649073	Rock	0.24	0.05	0.08	<0.01	<0.05
1649074	Drill Core	9.35	1.33	3.67	<0.01	0.70
1649075	Drill Core	3.00	0.19	1.39	<0.01	0.37
1649076	Rock Pulp	7.38	2.36	0.46	<0.01	0.08



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CERTIFICATE OF ANALYSIS

TIM18001808.1

Method	WGHT	FA430	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300
Analyte	Wgt	Au	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	
Unit	kg	ppm	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	
1649077	Drill Core	2.55	7.439																		
1649078	Drill Core	1.74	0.151																		
1649079	Drill Core	1.95	1.143																		
1649080	Drill Core	2.10	0.073																		
1649081	Drill Core	1.82	0.079																		
1649082	Drill Core	2.39	0.294																		
1649083	Drill Core	2.01	0.423																		
1649084	Drill Core	2.30	0.129																		
1649085	Drill Core	2.09	0.493																		
1649086	Drill Core	2.01	0.047																		
1649087	Drill Core	2.16	0.043																		
1649088	Drill Core	2.39	0.033	59.66	18.37	2.72	1.97	3.21	2.54	3.63	1.17	0.08	0.04	0.008	439	36	562	96	5	11	5
1649089	Rock	0.11	<0.005																		
1649090	Drill Core	2.07	0.013																		
1649091	Drill Core	2.28	0.008																		
1649092	Drill Core	2.91	0.029																		
1649093	Drill Core	3.05	0.034																		
1649094	Drill Core	2.19	0.030																		
1649095	Drill Core	1.85	0.008																		
1649096	Drill Core	2.21	0.008																		
1649097	Drill Core	1.79	0.009																		
1649098	Rock Pulp	0.07	0.282																		
1649099	Drill Core	3.17	0.014																		
1649100	Drill Core	1.81	0.153																		
1649101	Drill Core	2.77	0.019																		
1649102	Drill Core	2.12	0.038																		
1649103	Drill Core	2.26	0.007																		
1649104	Drill Core	1.80	0.019																		
1649105	Drill Core	2.82	0.023																		
1649106	Drill Core	2.23	0.018																		

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.



Bureau Veritas Commodities Canada Ltd.

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Project: Mikwam (MK)
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CERTIFICATE OF ANALYSIS

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Method	LF300	LF300	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	
Analyte	LOI	Sum	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	
Unit	%	%	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%	
MDL	-5.1	0.01	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01	
1649077	Drill Core			<0.001	<0.001	0.03	0.02	2	<0.001	<0.001	<0.01	0.50	<0.02	<0.01	<0.001	<0.01	<0.01	0.11	<0.01	<0.001	0.08
1649078	Drill Core			<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.02	1.42	0.09	0.03	<0.001	<0.01	<0.01	1.18	0.03	0.003	0.69
1649079	Drill Core			<0.001	0.002	<0.02	0.01	<2	0.002	<0.001	0.03	1.56	<0.02	0.03	<0.001	<0.01	<0.01	1.76	0.03	0.005	1.03
1649080	Drill Core			<0.001	0.001	<0.02	0.02	<2	0.002	<0.001	0.02	1.44	0.04	0.03	<0.001	<0.01	<0.01	1.81	0.03	0.003	1.04
1649081	Drill Core			<0.001	0.001	<0.02	0.02	<2	0.003	0.001	0.03	2.23	<0.02	0.03	<0.001	<0.01	<0.01	2.55	0.02	0.002	1.42
1649082	Drill Core			<0.001	0.001	<0.02	0.04	<2	0.002	<0.001	0.03	1.71	<0.02	0.03	<0.001	<0.01	<0.01	2.34	0.03	0.003	1.30
1649083	Drill Core			<0.001	0.002	<0.02	0.02	<2	0.003	0.001	0.04	3.42	0.02	0.04	<0.001	<0.01	<0.01	1.79	0.03	0.004	0.94
1649084	Drill Core			<0.001	0.001	<0.02	0.03	<2	0.002	<0.001	0.03	1.71	<0.02	0.04	<0.001	<0.01	<0.01	1.72	0.02	0.003	0.96
1649085	Drill Core			<0.001	0.001	<0.02	0.08	<2	0.002	0.001	0.02	1.50	<0.02	0.04	<0.001	<0.01	<0.01	1.32	0.03	0.002	0.75
1649086	Drill Core			<0.001	0.002	<0.02	0.06	<2	0.003	0.001	0.02	1.51	0.10	0.04	<0.001	<0.01	<0.01	1.61	0.02	0.001	0.90
1649087	Drill Core			<0.001	0.001	<0.02	<0.01	<2	0.003	0.001	0.04	1.76	0.04	0.05	<0.001	<0.01	<0.01	2.46	0.03	0.001	1.29
1649088	Drill Core	6.4	99.94	<0.001	0.001	<0.02	<0.01	<2	0.003	0.001	0.03	1.89	<0.02	0.06	<0.001	<0.01	<0.01	2.14	0.04	0.001	1.12
1649089	Rock			<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.63	<0.02	<0.01	<0.001	<0.01	<0.01	0.02	<0.01	<0.001	0.02
1649090	Drill Core			<0.001	0.002	<0.02	0.01	<2	0.003	0.002	0.02	1.72	<0.02	0.06	<0.001	<0.01	<0.01	1.90	0.03	0.003	1.04
1649091	Drill Core			<0.001	0.003	<0.02	0.02	<2	0.003	0.002	0.03	2.59	<0.02	0.06	<0.001	<0.01	<0.01	2.33	0.04	0.004	1.27
1649092	Drill Core			<0.001	0.002	<0.02	0.02	<2	0.003	0.001	0.02	1.82	<0.02	0.08	<0.001	<0.01	<0.01	1.68	0.03	0.002	0.86
1649093	Drill Core			<0.001	0.002	<0.02	0.04	<2	0.005	0.002	0.05	2.66	0.03	0.09	<0.001	<0.01	<0.01	3.35	0.05	0.003	1.37
1649094	Drill Core			<0.001	<0.001	<0.02	0.02	<2	0.002	<0.001	0.03	1.31	<0.02	0.11	<0.001	<0.01	<0.01	2.19	0.03	<0.001	1.04
1649095	Drill Core			<0.001	<0.001	<0.02	0.01	<2	0.003	0.001	0.04	1.48	<0.02	0.12	<0.001	<0.01	<0.01	2.99	0.03	0.002	1.36
1649096	Drill Core			<0.001	<0.001	<0.02	0.02	<2	0.003	0.001	0.04	1.77	<0.02	0.13	<0.001	<0.01	<0.01	3.75	0.03	0.001	1.72
1649097	Drill Core			<0.001	0.002	<0.02	0.05	<2	0.003	<0.001	0.03	1.60	<0.02	0.10	<0.001	<0.01	<0.01	3.17	0.04	0.001	1.62
1649098	Rock Pulp			<0.001	0.011	<0.02	<0.01	<2	0.012	0.005	0.13	7.72	<0.02	0.02	<0.001	<0.01	<0.01	6.19	0.08	0.016	4.00
1649099	Drill Core			<0.001	0.001	<0.02	0.05	<2	0.003	<0.001	0.03	1.87	0.02	0.06	<0.001	<0.01	<0.01	3.09	0.05	0.002	1.56
1649100	Drill Core			<0.001	0.002	<0.02	0.04	<2	0.003	<0.001	0.04	1.86	<0.02	0.06	<0.001	<0.01	<0.01	3.00	0.04	0.001	1.47
1649101	Drill Core			<0.001	0.002	<0.02	0.01	<2	0.004	0.001	0.04	1.92	0.02	0.06	<0.001	<0.01	<0.01	2.82	0.04	0.002	1.34
1649102	Drill Core			<0.001	<0.001	<0.02	0.01	<2	0.003	<0.001	0.04	1.73	<0.02	0.07	<0.001	<0.01	<0.01	2.76	0.03	0.002	1.25
1649103	Drill Core			<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.05	1.71	<0.02	0.07	<0.001	<0.01	<0.01	2.90	0.03	<0.001	1.26
1649104	Drill Core			<0.001	0.001	<0.02	<0.01	<2	0.003	<0.001	0.04	1.86	0.02	0.09	<0.001	<0.01	<0.01	3.31	0.03	0.002	0.99
1649105	Drill Core			<0.001	0.001	<0.02	<0.01	<2	0.003	0.001	0.04	1.80	<0.02	0.09	<0.001	<0.01	<0.01	4.34	0.03	0.002	0.88
1649106	Drill Core			<0.001	0.003	<0.02	0.01	<2	0.006	0.002	0.04	2.81	<0.02	0.09	<0.001	<0.01	<0.01	4.09	0.05	0.005	0.86



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CERTIFICATE OF ANALYSIS

TIM18001808.1

Method	Analyte	MA370	MA370	MA370	MA370	MA370
		Al	Na	K	W	S
Unit		%	%	%	%	%
MDL		0.01	0.01	0.01	0.01	0.05
1649077	Drill Core	1.54	0.09	0.71	<0.01	0.39
1649078	Drill Core	9.61	1.07	3.86	<0.01	0.79
1649079	Drill Core	8.72	0.59	3.69	<0.01	0.80
1649080	Drill Core	9.20	0.85	3.77	<0.01	0.77
1649081	Drill Core	8.43	1.11	3.25	<0.01	1.06
1649082	Drill Core	8.83	1.14	3.40	<0.01	0.76
1649083	Drill Core	8.37	0.72	3.39	<0.01	2.25
1649084	Drill Core	8.51	0.95	3.35	<0.01	0.63
1649085	Drill Core	8.54	1.08	3.29	<0.01	0.71
1649086	Drill Core	8.31	1.15	3.11	<0.01	0.58
1649087	Drill Core	8.60	1.69	2.88	<0.01	0.72
1649088	Drill Core	9.40	1.89	3.11	<0.01	0.72
1649089	Rock	0.25	0.06	0.07	<0.01	<0.05
1649090	Drill Core	8.94	1.68	2.91	<0.01	0.81
1649091	Drill Core	8.75	1.66	2.74	<0.01	1.39
1649092	Drill Core	9.33	1.54	2.94	<0.01	0.83
1649093	Drill Core	8.15	1.30	2.53	<0.01	0.70
1649094	Drill Core	8.72	1.93	2.30	<0.01	0.35
1649095	Drill Core	9.09	1.93	2.43	<0.01	0.27
1649096	Drill Core	8.28	1.15	2.43	<0.01	0.37
1649097	Drill Core	8.69	0.83	2.96	<0.01	0.55
1649098	Rock Pulp	7.10	2.26	0.44	<0.01	0.08
1649099	Drill Core	8.67	1.11	3.23	<0.01	0.77
1649100	Drill Core	8.99	1.84	2.99	<0.01	0.72
1649101	Drill Core	9.12	2.30	2.85	<0.01	0.70
1649102	Drill Core	8.95	1.84	2.97	<0.01	0.38
1649103	Drill Core	8.88	1.63	3.05	<0.01	0.43
1649104	Drill Core	9.31	1.27	3.24	<0.01	0.61
1649105	Drill Core	8.33	1.39	2.71	<0.01	0.44
1649106	Drill Core	8.11	0.65	3.06	<0.01	0.73



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CERTIFICATE OF ANALYSIS

TIM18001808.1

Method	WGHT	FA430	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300
Analyte	Wgt	Au	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc
Unit	kg	ppm	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL	0.01	0.005	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1
1649107	Drill Core	2.83	0.013																	
1649108	Drill Core	1.68	0.007																	
1649109	Drill Core	2.07	0.008																	
1649110	Drill Core	2.15	0.436																	
1649111	Drill Core	2.31	0.236																	
1649112	Drill Core	2.39	0.050																	
1649113	Drill Core	2.94	0.010																	



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CERTIFICATE OF ANALYSIS

TIM18001808.1

Method	LF300	LF300	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370
Analyte	LOI	Sum	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg
Unit	%	%	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL	-5.1	0.01	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01
1649107	Drill Core		<0.001	0.002	<0.02	0.01	<2	0.004	0.002	0.04	2.37	<0.02	0.08	<0.001	<0.01	<0.01	3.64	0.05	0.004	1.00
1649108	Drill Core		<0.001	<0.001	<0.02	<0.01	<2	0.003	<0.001	0.05	1.72	<0.02	0.09	<0.001	<0.01	<0.01	3.30	0.03	<0.001	1.16
1649109	Drill Core		<0.001	0.001	<0.02	0.01	<2	0.003	0.001	0.04	2.09	<0.02	0.07	<0.001	<0.01	<0.01	2.66	0.04	0.002	1.12
1649110	Drill Core		<0.001	0.003	<0.02	0.05	3	0.006	0.002	0.04	3.27	<0.02	0.05	<0.001	<0.01	<0.01	2.29	0.05	0.007	1.17
1649111	Drill Core		<0.001	0.003	<0.02	0.02	<2	0.007	0.002	0.05	3.32	0.03	0.06	<0.001	<0.01	<0.01	3.60	0.08	0.010	1.56
1649112	Drill Core		<0.001	0.003	<0.02	<0.01	<2	0.007	0.002	0.05	2.86	0.02	0.11	<0.001	<0.01	<0.01	4.86	0.08	0.011	1.95
1649113	Drill Core		<0.001	0.001	<0.02	<0.01	<2	0.003	0.001	0.04	1.86	<0.02	0.12	<0.001	<0.01	<0.01	2.93	0.04	0.002	1.31



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CERTIFICATE OF ANALYSIS

TIM18001808.1

	Method	MA370				
		Al	Na	K	W	S
Analyte		%	%	%	%	%
Unit						
MDL		0.01	0.01	0.01	0.01	0.05
1649107	Drill Core	8.70	1.25	3.02	<0.01	0.55
1649108	Drill Core	9.15	1.97	2.83	<0.01	0.38
1649109	Drill Core	8.76	1.77	2.94	<0.01	0.48
1649110	Drill Core	7.97	3.28	1.75	<0.01	1.79
1649111	Drill Core	7.52	2.46	2.05	<0.01	1.89
1649112	Drill Core	7.57	0.94	2.44	<0.01	0.56
1649113	Drill Core	9.14	0.90	2.91	<0.01	0.45



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QUALITY CONTROL REPORT

TIM18001808.1

Method	WGHT	FA430	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	
Analyte	Wgt	Au	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	
Unit	kg	ppm	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	
1649059	Drill Core	1.36	0.686																		
1649093	Drill Core	3.05	0.034																		
Pulp Duplicates																					
1649050	Drill Core	3.07	<0.005																		
REP 1649050	QC																				
1649056	Rock	0.15	<0.005																		
REP 1649056	QC		<0.005																		
1649069	Drill Core	2.27	0.022																		
REP 1649069	QC		0.022																		
1649083	Drill Core	2.01	0.423																		
REP 1649083	QC																				
1649088	Drill Core	2.39	0.033	59.66	18.37	2.72	1.97	3.21	2.54	3.63	1.17	0.08	0.04	0.008	439	36	562	96	5	11	5
REP 1649088	QC			59.52	18.48	2.72	2.01	3.25	2.54	3.63	1.15	0.08	0.04	0.008	441	33	568	103	5	<5	5
Core Reject Duplicates																					
1649071	Drill Core	2.11	0.096																		
DUP 1649071	QC		0.120																		
1649105	Drill Core	2.82	0.023																		
DUP 1649105	QC		0.011																		
Reference Materials																					
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD OXC145	Standard		0.204																		
STD OXC145	Standard		0.209																		
STD OXC145	Standard		0.214																		
STD OXH139	Standard		1.254																		
STD OXH139	Standard		1.300																		
STD OXH139	Standard		1.265																		



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QUALITY CONTROL REPORT

TIM18001808.1

Method	Analyte	LF300	LF300	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	
		LOI	Sum	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg
Unit		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	
MDL		-5.1	0.01	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01		
1649059	Drill Core			<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	<0.01	1.85	<0.02	<0.01	<0.001	<0.01	<0.01	0.29	0.01	0.003	0.18
1649093	Drill Core			<0.001	0.002	<0.02	0.04	<2	0.005	0.002	0.05	2.66	0.03	0.09	<0.001	<0.01	<0.01	3.35	0.05	0.003	1.37
Pulp Duplicates																					
1649050	Drill Core			<0.001	0.002	<0.02	0.01	<2	0.002	0.001	0.04	2.10	<0.02	0.03	<0.001	<0.01	<0.01	1.84	0.04	0.002	0.96
REP 1649050	QC			<0.001	0.002	<0.02	0.01	<2	0.002	0.001	0.04	2.12	<0.02	0.03	<0.001	<0.01	<0.01	1.86	0.04	0.002	0.98
1649056	Rock			<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.61	<0.02	<0.01	<0.001	<0.01	<0.01	0.02	<0.01	<0.001	0.02
REP 1649056	QC																				
1649069	Drill Core			<0.001	0.003	<0.02	0.02	<2	0.008	0.002	0.08	3.53	0.02	0.04	<0.001	<0.01	<0.01	5.25	0.11	0.014	2.02
REP 1649069	QC																				
1649083	Drill Core			<0.001	0.002	<0.02	0.02	<2	0.003	0.001	0.04	3.42	0.02	0.04	<0.001	<0.01	<0.01	1.79	0.03	0.004	0.94
REP 1649083	QC			<0.001	0.002	<0.02	0.02	<2	0.003	0.001	0.04	3.31	0.02	0.04	<0.001	<0.01	<0.01	1.75	0.03	0.004	0.91
1649088	Drill Core	6.4	99.94	<0.001	0.001	<0.02	<0.01	<2	0.003	0.001	0.03	1.89	<0.02	0.06	<0.001	<0.01	<0.01	2.14	0.04	0.001	1.12
REP 1649088	QC	6.4	99.94																		
Core Reject Duplicates																					
1649071	Drill Core			<0.001	0.002	<0.02	<0.01	<2	0.003	0.001	0.05	2.82	0.09	0.03	<0.001	<0.01	<0.01	1.81	0.04	0.004	0.82
DUP 1649071	QC			<0.001	0.002	<0.02	<0.01	<2	0.003	0.001	0.05	2.81	0.09	0.03	<0.001	<0.01	<0.01	1.82	0.04	0.004	0.82
1649105	Drill Core			<0.001	0.001	<0.02	<0.01	<2	0.003	0.001	0.04	1.80	<0.02	0.09	<0.001	<0.01	<0.01	4.34	0.03	0.002	0.88
DUP 1649105	QC			<0.001	0.001	<0.02	<0.01	<2	0.003	0.001	0.04	2.01	<0.02	0.09	<0.001	<0.01	<0.01	4.45	0.04	0.001	0.96
Reference Materials																					
STD CDN-ME-14	Standard			0.002	1.218	0.47	2.99	41	0.002	0.017	0.09	17.68	<0.02	<0.01	0.008	<0.01	<0.01	0.72	0.02	0.001	1.17
STD CDN-ME-9	Standard			<0.001	0.657	<0.02	0.01	<2	0.922	0.018	0.12	13.80	<0.02	0.03	<0.001	<0.01	<0.01	3.99	0.06	0.031	3.88
STD CDN-ME-14	Standard			0.001	1.229	0.51	3.06	44	0.002	0.017	0.09	18.06	<0.02	<0.01	0.009	<0.01	<0.01	0.74	0.01	<0.001	1.26
STD CDN-ME-9	Standard			<0.001	0.670	<0.02	0.01	2	0.948	0.018	0.12	13.87	<0.02	0.03	<0.001	<0.01	<0.01	4.13	0.06	0.030	3.94
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				



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QUALITY CONTROL REPORT

TIM18001808.1

Method	Analyte	MA370	MA370	MA370	MA370	MA370
		Al	Na	K	W	S
Unit		%	%	%	%	%
MDL		0.01	0.01	0.01	0.01	0.05
1649059	Drill Core	0.96	0.22	0.28	<0.01	1.42
1649093	Drill Core	8.15	1.30	2.53	<0.01	0.70
Pulp Duplicates						
1649050	Drill Core	7.05	1.85	2.23	<0.01	1.26
REP 1649050	QC	7.15	1.87	2.28	<0.01	1.26
1649056	Rock	0.18	0.04	0.06	<0.01	<0.05
REP 1649056	QC					
1649069	Drill Core	7.26	0.57	3.11	<0.01	0.68
REP 1649069	QC					
1649083	Drill Core	8.37	0.72	3.39	<0.01	2.25
REP 1649083	QC	8.16	0.70	3.27	<0.01	2.20
1649088	Drill Core	9.40	1.89	3.11	<0.01	0.72
REP 1649088	QC					
Core Reject Duplicates						
1649071	Drill Core	8.97	0.73	3.83	<0.01	1.19
DUP 1649071	QC	8.93	0.74	3.81	<0.01	1.20
1649105	Drill Core	8.33	1.39	2.71	<0.01	0.44
DUP 1649105	QC	8.74	1.46	2.90	<0.01	0.50
Reference Materials						
STD CDN-ME-14	Standard	4.37	0.51	1.71	<0.01	16.16
STD CDN-ME-9	Standard	6.65	1.87	0.66	<0.01	2.57
STD CDN-ME-14	Standard	4.43	0.51	1.77	<0.01	16.04
STD CDN-ME-9	Standard	6.79	1.89	0.67	<0.01	2.58
STD OXC145	Standard					
STD OXC145	Standard					
STD OXC145	Standard					
STD OXH139	Standard					
STD OXH139	Standard					
STD OXH139	Standard					



QUALITY CONTROL REPORT

TIM18001808.1

		WGHT	FA430	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	
		Wgt	Au	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc
		kg	ppm	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.005	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1
STD OXN134	Standard	7.887																			
STD OXN134	Standard	7.695																			
STD OXN134	Standard	7.427																			
STD SO-19	Standard			60.42	13.97	7.44	2.94	5.97	4.05	1.31	0.70	0.31	0.13	0.503	462	473	314	118	34	75	26
STD SO-19	Standard			60.48	13.99	7.43	2.94	5.93	4.01	1.31	0.70	0.32	0.13	0.501	464	469	313	118	35	78	26
STD OXC145 Expected		0.212																			
STD OXN134 Expected		7.667																			
STD OXH139 Expected		1.312																			
STD SO-19 Expected				61.13	13.95	7.47	2.88	6	4.11	1.29	0.69	0.32	0.13	0.5	486	470	317.1	112	35.5	68.5	27
STD CDN-ME-14 Expected																					
STD CDN-ME-9 Expected																					
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	0.005																			
BLK	Blank	<0.005																			
BLK	Blank			0.10	0.02	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-TIM	Prep Blank	<0.005																			
ROCK-TIM	Prep Blank	<0.005																			



QUALITY CONTROL REPORT

TIM18001808.1

		LF300	LF300	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370
		LOI	Sum	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg
		%	%	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%
		-5.1	0.01	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01
STD OXN134	Standard																				
STD OXN134	Standard																				
STD OXN134	Standard																				
STD SO-19	Standard	1.9	99.87																		
STD SO-19	Standard	1.9	99.86																		
STD OXC145 Expected																					
STD OXN134 Expected																					
STD OXH139 Expected																					
STD SO-19 Expected																					
STD CDN-ME-14 Expected					1.221	0.495	3.17	43.5	0.002	0.0172	0.0883	18.04	0.0088		0.0088		0.0094	0.747	0.0147	0.0014	1.28
STD CDN-ME-9 Expected					0.654		0.012		0.912	0.0169	0.121	13.84		0.03				4.21	0.06	0.0284	4.05
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	0.0	0.13																		
BLK	Blank			<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.02	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01
BLK	Blank			<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.02	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01
Prep Wash																					
ROCK-TIM	Prep Blank			<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	0.06	1.89	<0.02	0.02	<0.001	<0.01	<0.01	1.61	0.04	<0.001	0.53
ROCK-TIM	Prep Blank			<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	0.06	1.90	<0.02	0.02	<0.001	<0.01	<0.01	1.61	0.04	<0.001	0.53



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625 Howe Street, Suite 1020
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Project: Mikwam (MK)
Report Date: September 22, 2018

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QUALITY CONTROL REPORT

TIM18001808.1

		MA370	MA370	MA370	MA370	MA370
		Al	Na	K	W	S
		%	%	%	%	%
		0.01	0.01	0.01	0.01	0.05
STD OXN134	Standard					
STD OXN134	Standard					
STD OXN134	Standard					
STD SO-19	Standard					
STD SO-19	Standard					
STD OXC145 Expected						
STD OXN134 Expected						
STD OXH139 Expected						
STD SO-19 Expected						
STD CDN-ME-14 Expected		4.47	0.53	1.7		16.14
STD CDN-ME-9 Expected		6.74	1.86	0.616		2.58
BLK	Blank					
BLK	Blank					
BLK	Blank					
BLK	Blank					
BLK	Blank					
BLK	Blank					
BLK	Blank					
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.05
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.05
Prep Wash						
ROCK-TIM	Prep Blank	7.03	3.42	1.79	<0.01	0.07
ROCK-TIM	Prep Blank	7.10	3.43	1.81	<0.01	<0.05



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Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: September 05, 2018
Report Date: September 22, 2018
Page: 1 of 4

CERTIFICATE OF ANALYSIS

TIM18001821.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID:
P.O. Number: Batch #003
Number of Samples: 71

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
PRP70-500	68	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	3	Sort, label and box pulps			TIM
FA430	71	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	71	Environmental disposal charge-Fire assay lead waste			TIM
MA370	71	4-Acid Digestion ICP-ES Finish	0.5	Completed	VAN
LF300	1	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed	VAN
SHP01	71	Per sample shipping charges for branch shipments			TIM
FA530	2	Lead collection fire assay 30G fusion - Grav finish	30	Completed	TIM

ADDITIONAL COMMENTS

Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi


JEFFREY CANNON
Geochemistry Department Supervisor

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 Commodities Canada Ltd.

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Project: Mikwam (MK)
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CERTIFICATE OF ANALYSIS

TIM18001821.1

Method	WGHT	FA430	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	
Unit	kg	ppm	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%	
MDL	0.01	0.005	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01	
1649114	Drill Core	2.29	0.026	<0.001	0.005	<0.02	<0.01	<2	0.007	0.003	0.04	4.79	<0.02	0.03	<0.001	<0.01	<0.01	1.49	0.06	0.005	0.74
1649115	Drill Core	2.31	0.018	<0.001	0.004	<0.02	<0.01	<2	0.007	0.003	0.04	4.25	<0.02	0.03	<0.001	<0.01	<0.01	1.51	0.06	0.005	0.77
1649116	Drill Core	2.17	0.021	<0.001	0.004	<0.02	0.01	<2	0.009	0.003	0.04	3.93	<0.02	0.03	<0.001	<0.01	<0.01	1.62	0.05	0.009	0.82
1649117	Drill Core	2.23	0.063	<0.001	0.004	<0.02	0.02	<2	0.022	0.004	<0.01	10.21	0.03	0.02	<0.001	<0.01	<0.01	0.23	0.04	0.029	0.21
1649118	Drill Core	2.23	0.100	<0.001	0.004	<0.02	0.02	<2	0.017	0.004	0.01	15.71	0.02	0.02	<0.001	<0.01	<0.01	0.59	0.03	0.025	0.39
1649119	Drill Core	2.39	0.070	<0.001	0.003	<0.02	0.02	<2	0.023	0.004	<0.01	10.83	0.03	0.02	<0.001	<0.01	<0.01	0.36	0.05	0.031	0.28
1649120	Drill Core	2.98	0.137	<0.001	0.004	<0.02	0.02	<2	0.008	0.003	0.03	23.66	<0.02	0.02	<0.001	<0.01	<0.01	1.43	0.02	0.008	0.78
1649121	Drill Core	2.70	0.152	<0.001	0.004	<0.02	0.03	<2	0.008	0.002	0.03	24.58	0.02	0.02	<0.001	<0.01	<0.01	1.44	0.03	0.010	0.78
1649122	Drill Core	2.88	0.192	<0.001	0.004	<0.02	0.03	<2	0.007	0.003	0.04	26.87	<0.02	0.01	<0.001	<0.01	<0.01	1.68	0.03	0.006	0.88
1649123	Drill Core	2.99	0.174	<0.001	0.003	<0.02	0.02	<2	0.007	0.003	0.03	20.58	<0.02	0.02	<0.001	<0.01	<0.01	1.76	0.04	0.005	0.94
1649124	Drill Core	2.64	0.086	<0.001	0.003	<0.02	0.01	<2	0.009	0.002	0.04	13.44	<0.02	0.02	<0.001	<0.01	<0.01	1.87	0.04	0.010	0.98
1649125	Rock	0.13	<0.005	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.85	<0.02	<0.01	<0.001	<0.01	<0.01	0.04	<0.01	<0.001	0.02
1649126	Drill Core	2.51	0.022	<0.001	0.005	<0.02	<0.01	<2	0.008	0.002	<0.01	3.54	<0.02	0.02	<0.001	<0.01	<0.01	0.38	0.06	0.008	0.21
1649127	Drill Core	2.06	0.017	<0.001	0.005	<0.02	<0.01	<2	0.007	0.002	0.01	3.35	<0.02	0.02	<0.001	<0.01	<0.01	0.67	0.07	0.005	0.41
1649128	Drill Core	1.67	0.047	<0.001	0.006	<0.02	0.01	<2	0.007	0.003	0.04	3.24	<0.02	0.02	<0.001	<0.01	<0.01	1.79	0.06	0.009	0.93
1649129	Drill Core	2.78	0.080	<0.001	0.005	<0.02	<0.01	<2	0.007	0.003	0.04	5.04	<0.02	0.02	<0.001	<0.01	<0.01	2.03	0.06	0.005	1.02
1649130	Drill Core	2.38	0.045	<0.001	0.004	<0.02	<0.01	<2	0.005	0.002	0.05	3.31	<0.02	0.02	<0.001	<0.01	<0.01	2.05	0.05	0.005	1.08
1649131	Drill Core	1.85	0.110	<0.001	0.004	<0.02	<0.01	<2	0.007	0.003	0.03	5.15	<0.02	0.02	<0.001	<0.01	<0.01	1.42	0.06	0.006	1.07
1649132	Drill Core	2.73	0.081	<0.001	0.004	<0.02	<0.01	<2	0.006	0.003	0.04	4.56	<0.02	0.02	<0.001	<0.01	<0.01	1.61	0.06	0.005	0.97
1649133	Drill Core	1.64	0.120	<0.001	0.005	<0.02	<0.01	<2	0.007	0.003	0.05	4.37	<0.02	0.02	<0.001	<0.01	<0.01	1.68	0.06	0.006	0.87
1649134	Drill Core	1.53	0.068	<0.001	0.004	<0.02	0.01	<2	0.010	0.003	0.06	4.41	0.04	0.03	<0.001	<0.01	<0.01	2.81	0.05	0.011	1.27
1649135	Drill Core	2.13	0.074	<0.001	0.004	<0.02	0.02	<2	0.012	0.003	0.07	6.23	0.11	0.02	<0.001	<0.01	<0.01	3.53	0.04	0.011	1.82
1649136	Rock Pulp	0.06	6.362	<0.001	0.013	<0.02	<0.01	<2	0.018	0.004	0.09	5.26	<0.02	<0.01	<0.001	<0.01	<0.01	4.62	0.03	0.046	4.33
1649137	Drill Core	1.56	0.176	<0.001	0.002	<0.02	<0.01	<2	0.008	0.001	0.04	2.78	0.03	0.01	<0.001	<0.01	<0.01	1.59	0.02	0.012	0.79
1649138	Drill Core	2.74	1.847	<0.001	0.002	<0.02	<0.01	3	<0.001	<0.001	<0.01	7.00	0.08	<0.01	<0.001	<0.01	<0.01	0.11	0.03	0.001	0.04
1649139	Drill Core	2.47	7.053	<0.001	0.008	<0.02	<0.01	7	<0.001	<0.001	<0.01	10.56	0.34	<0.01	<0.001	<0.01	<0.01	0.33	0.04	<0.001	0.15
1649140	Drill Core	2.43	2.092	<0.001	0.003	<0.02	<0.01	5	0.002	<0.001	0.02	4.81	0.19	<0.01	<0.001	<0.01	<0.01	0.66	0.04	0.003	0.35
1649141	Drill Core	1.73	0.987	<0.001	0.002	<0.02	<0.01	3	0.002	<0.001	0.02	2.68	0.09	0.01	<0.001	<0.01	<0.01	0.92	0.03	0.002	0.40
1649142	Drill Core	2.21	6.556	<0.001	0.007	<0.02	<0.01	5	0.001	<0.001	0.01	11.58	0.39	<0.01	<0.001	<0.01	<0.01	0.42	0.04	0.001	0.20
1649143	Drill Core	3.15	9.525	<0.001	0.012	<0.02	<0.01	5	<0.001	<0.001	<0.01	19.20	0.49	<0.01	<0.001	<0.01	<0.01	0.57	0.05	0.001	0.22



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Project: Mikwam (MK)
Report Date: September 22, 2018

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CERTIFICATE OF ANALYSIS

TIM18001821.1

Method	Analyte	MA370	MA370	MA370	MA370	MA370	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	
		Al	Na	K	W	S	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	
Unit		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	
MDL		0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	
1649114	Drill Core	7.40	2.34	2.06	<0.01	5.21																
1649115	Drill Core	7.41	2.38	2.07	<0.01	4.42																
1649116	Drill Core	7.59	2.99	1.80	<0.01	4.03																
1649117	Drill Core	7.10	1.68	2.18	<0.01	11.48																
1649118	Drill Core	6.26	1.24	1.84	<0.01	17.07																
1649119	Drill Core	6.71	1.34	2.27	<0.01	12.10																
1649120	Drill Core	4.54	0.75	1.66	<0.01	27.36																
1649121	Drill Core	4.17	0.47	1.65	<0.01	27.52																
1649122	Drill Core	3.73	0.34	1.51	<0.01	>30																
1649123	Drill Core	4.82	1.07	1.61	<0.01	23.06																
1649124	Drill Core	5.73	1.82	1.73	<0.01	15.45																
1649125	Rock	0.29	0.07	0.09	<0.01	<0.05																
1649126	Drill Core	6.75	3.18	1.77	<0.01	3.69																
1649127	Drill Core	7.24	2.13	2.39	<0.01	3.26																
1649128	Drill Core	8.02	1.70	3.09	<0.01	2.81																
1649129	Drill Core	7.17	1.24	2.81	<0.01	4.92																
1649130	Drill Core	7.39	1.61	2.69	<0.01	2.62																
1649131	Drill Core	8.35	1.49	3.08	<0.01	4.24																
1649132	Drill Core	8.04	2.03	2.70	<0.01	3.79																
1649133	Drill Core	7.53	2.25	2.39	<0.01	3.90																
1649134	Drill Core	6.63	1.89	2.09	<0.01	3.92																
1649135	Drill Core	5.76	0.39	2.38	<0.01	5.26																
1649136	Rock Pulp	5.78	1.49	0.72	<0.01	0.74																
1649137	Drill Core	2.75	0.42	1.13	<0.01	2.10																
1649138	Drill Core	0.27	0.06	0.08	<0.01	7.69																
1649139	Drill Core	0.60	0.03	0.27	<0.01	11.72																
1649140	Drill Core	2.06	0.27	0.93	<0.01	4.96																
1649141	Drill Core	2.76	0.63	1.06	<0.01	2.20																
1649142	Drill Core	1.66	0.28	0.63	<0.01	12.30																
1649143	Drill Core	0.61	0.05	0.23	<0.01	21.56																



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Project: Mikwam (MK)
Report Date: September 22, 2018

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CERTIFICATE OF ANALYSIS

TIM18001821.1

Method	LF300	LF300	LF300	LF300	LF300	FA530
Analyte	Y	Nb	Sc	LOI	Sum	Au
Unit	ppm	ppm	ppm	%	%	gm/t
MDL	3	5	1	-5.1	0.01	0.9
1649114	Drill Core					
1649115	Drill Core					
1649116	Drill Core					
1649117	Drill Core					
1649118	Drill Core					
1649119	Drill Core					
1649120	Drill Core					
1649121	Drill Core					
1649122	Drill Core					
1649123	Drill Core					
1649124	Drill Core					
1649125	Rock					
1649126	Drill Core					
1649127	Drill Core					
1649128	Drill Core					
1649129	Drill Core					
1649130	Drill Core					
1649131	Drill Core					
1649132	Drill Core					
1649133	Drill Core					
1649134	Drill Core					
1649135	Drill Core					
1649136	Rock Pulp					
1649137	Drill Core					
1649138	Drill Core					
1649139	Drill Core					
1649140	Drill Core					
1649141	Drill Core					
1649142	Drill Core					
1649143	Drill Core					



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Project: Mikwam (MK)
Report Date: September 22, 2018

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CERTIFICATE OF ANALYSIS

TIM18001821.1

Method	WGHT	FA430	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	
Unit	kg	ppm	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%	
MDL	0.01	0.005	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01	
1649144	Rock	0.16	0.017	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.97	<0.02	<0.01	<0.001	<0.01	<0.01	0.08	<0.01	0.001	0.02
1649145	Drill Core	2.36	1.651	<0.001	0.003	<0.02	<0.01	<2	0.002	<0.001	0.01	6.72	0.73	<0.01	<0.001	<0.01	<0.01	0.36	0.03	0.002	0.58
1649146	Drill Core	1.87	0.514	<0.001	0.003	<0.02	<0.01	<2	0.005	0.002	0.04	6.12	0.34	0.03	<0.001	<0.01	<0.01	1.37	0.05	0.004	1.13
1649147	Drill Core	2.36	1.104	<0.001	0.002	<0.02	<0.01	3	0.003	<0.001	0.03	6.60	0.36	0.02	<0.001	<0.01	<0.01	1.06	0.05	<0.001	0.77
1649148	Drill Core	2.30	1.330	<0.001	0.001	<0.02	<0.01	2	0.003	<0.001	0.04	6.89	0.55	0.02	<0.001	<0.01	<0.01	1.29	0.04	<0.001	0.72
1649149	Drill Core	2.60	>10	<0.001	0.006	<0.02	<0.01	7	0.001	<0.001	0.02	21.96	0.71	<0.01	<0.001	<0.01	<0.01	0.34	0.04	<0.001	0.19
1649150	Drill Core	2.46	7.891	<0.001	0.005	<0.02	<0.01	8	0.003	<0.001	0.07	18.97	0.67	0.01	<0.001	<0.01	<0.01	0.86	0.06	<0.001	0.57
1649151	Rock Pulp	0.07	0.302	<0.001	0.009	<0.02	<0.01	<2	0.012	0.004	0.14	8.22	<0.02	0.03	<0.001	<0.01	<0.01	6.73	0.09	0.017	4.34
1649152	Drill Core	2.59	>10	<0.001	0.005	<0.02	<0.01	4	<0.001	<0.001	0.04	20.43	1.14	<0.01	<0.001	<0.01	<0.01	0.14	0.04	<0.001	0.20
1649153	Drill Core	2.64	9.867	<0.001	0.003	<0.02	<0.01	7	<0.001	<0.001	0.03	26.02	1.12	<0.01	<0.001	<0.01	<0.01	0.37	0.06	<0.001	0.33
1649154	Rock	0.15	<0.005	<0.001	0.002	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.68	<0.02	<0.01	<0.001	<0.01	<0.01	0.01	<0.01	<0.001	<0.01
1649155	Drill Core	2.77	6.916	<0.001	0.004	<0.02	<0.01	8	0.002	<0.001	0.03	14.81	0.85	0.02	<0.001	<0.01	<0.01	1.25	0.05	<0.001	0.65
1649156	Drill Core	2.42	0.078	<0.001	<0.001	<0.02	<0.01	<2	0.013	0.001	0.13	3.22	0.05	0.05	<0.001	<0.01	<0.01	5.26	0.06	0.018	2.18
1649157	Drill Core	1.80	0.115	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.04	2.03	0.04	0.01	<0.001	<0.01	<0.01	1.82	0.01	0.004	0.73
1649158	Drill Core	1.28	1.883	<0.001	<0.001	<0.02	<0.01	5	0.003	<0.001	0.03	1.86	0.07	0.01	<0.001	<0.01	<0.01	0.99	0.02	0.003	0.41
1649159	Drill Core	2.16	0.737	<0.001	0.003	<0.02	0.01	3	0.005	0.002	0.04	4.47	0.37	0.02	<0.001	<0.01	<0.01	1.60	0.04	0.002	0.73
1649160	Drill Core	2.24	1.292	<0.001	0.004	<0.02	0.01	<2	0.006	0.002	0.04	6.30	1.26	0.02	<0.001	<0.01	<0.01	1.66	0.04	0.002	0.80
1649161	Drill Core	2.23	0.067	<0.001	<0.001	<0.02	0.05	<2	0.003	<0.001	0.03	2.12	0.24	0.02	<0.001	<0.01	<0.01	1.92	0.03	0.002	1.04
1649162	Drill Core	2.40	1.107	<0.001	0.008	<0.02	<0.01	2	0.007	0.004	0.10	11.85	1.52	0.02	<0.001	<0.01	<0.01	3.36	0.04	<0.001	1.42
1649163	Drill Core	2.53	0.096	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.04	2.05	0.28	0.03	<0.001	<0.01	<0.01	2.30	0.03	<0.001	1.07
1649164	Drill Core	1.96	0.164	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.06	2.13	0.23	0.03	<0.001	<0.01	<0.01	3.20	0.03	0.003	0.98
1649165	Rock Pulp	0.05	6.471	<0.001	0.012	<0.02	<0.01	<2	0.017	0.003	0.09	5.40	<0.02	<0.01	<0.001	<0.01	<0.01	4.74	0.03	0.040	4.43
1649166	Drill Core	2.35	0.076	<0.001	<0.001	<0.02	<0.01	<2	0.003	<0.001	0.04	1.93	0.11	0.04	<0.001	<0.01	<0.01	3.18	0.03	0.002	0.65
1649167	Drill Core	2.02	0.022	<0.001	<0.001	<0.02	0.04	<2	0.007	0.002	0.05	1.86	0.04	0.04	<0.001	<0.01	<0.01	1.99	0.03	0.002	0.94
1649168	Drill Core	2.67	0.049	<0.001	0.002	<0.02	0.01	<2	0.006	0.001	0.05	2.11	0.17	0.04	<0.001	<0.01	<0.01	3.92	0.03	<0.001	0.80
1649169	Drill Core	2.05	0.026	<0.001	0.002	<0.02	<0.01	<2	0.004	0.001	0.02	1.39	0.03	0.05	<0.001	<0.01	<0.01	2.87	0.04	0.002	0.28
1649170	Drill Core	1.81	0.019	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.02	1.36	0.02	0.05	<0.001	<0.01	<0.01	3.84	0.04	0.002	0.21
1649171	Drill Core	2.47	0.019	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.02	1.75	<0.02	0.06	<0.001	<0.01	<0.01	3.18	0.03	0.002	0.19
1649172	Drill Core	3.04	0.019	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.01	1.65	<0.02	0.06	<0.001	<0.01	<0.01	2.60	0.04	0.002	0.19
1649173	Drill Core	2.05	0.035	<0.001	<0.001	<0.02	<0.01	<2	0.003	0.001	0.02	2.20	<0.02	0.06	<0.001	<0.01	<0.01	2.74	0.04	0.003	0.20



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Project: Mikwam (MK)
Report Date: September 22, 2018

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CERTIFICATE OF ANALYSIS

TIM18001821.1

Method	Analyte	MA370	MA370	MA370	MA370	MA370	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300
		Al	Na	K	W	S	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr
Unit		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm
MDL		0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5
1649144	Rock	0.27	0.09	0.09	<0.01	<0.05															
1649145	Drill Core	3.68	1.21	1.03	<0.01	5.27															
1649146	Drill Core	8.19	3.48	1.71	<0.01	3.54															
1649147	Drill Core	6.57	1.35	2.40	<0.01	4.96															
1649148	Drill Core	5.62	1.45	2.09	<0.01	5.23															
1649149	Drill Core	1.21	0.03	0.50	<0.01	22.46															
1649150	Drill Core	3.15	0.73	1.01	<0.01	15.59															
1649151	Rock Pulp	7.28	2.31	0.44	<0.01	0.21															
1649152	Drill Core	0.46	0.04	0.04	<0.01	16.87															
1649153	Drill Core	0.93	0.09	0.16	<0.01	24.47															
1649154	Rock	0.16	0.05	0.04	<0.01	0.11															
1649155	Drill Core	2.22	0.43	0.74	<0.01	14.75															
1649156	Drill Core	4.09	0.78	1.58	<0.01	0.78															
1649157	Drill Core	1.34	0.20	0.54	<0.01	0.90															
1649158	Drill Core	2.77	0.34	1.18	<0.01	0.94															
1649159	Drill Core	7.67	0.29	3.40	<0.01	3.32															
1649160	Drill Core	5.55	0.39	2.36	<0.01	4.43															
1649161	Drill Core	8.96	0.90	3.71	<0.01	0.90															
1649162	Drill Core	6.19	1.08	2.16	<0.01	9.35															
1649163	Drill Core	7.68	0.79	3.18	<0.01	0.88															
1649164	Drill Core	7.91	1.06	3.07	<0.01	0.92															
1649165	Rock Pulp	5.69	1.49	0.70	<0.01	0.80															
1649166	Drill Core	8.70	2.18	3.05	<0.01	0.70															
1649167	Drill Core	9.23	2.15	3.19	<0.01	0.74															
1649168	Drill Core	8.20	1.89	3.01	<0.01	0.95															
1649169	Drill Core	8.68	1.61	3.47	<0.01	0.32															
1649170	Drill Core	6.92	1.87	3.06	<0.01	0.37															
1649171	Drill Core	6.73	1.52	3.00	<0.01	0.57															
1649172	Drill Core	7.47	1.47	2.94	<0.01	0.46															
1649173	Drill Core	7.39	1.68	2.77	<0.01	1.07															

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.



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CERTIFICATE OF ANALYSIS

TIM18001821.1

Method	LF300	LF300	LF300	LF300	LF300	FA530
Analyte	Y	Nb	Sc	LOI	Sum	Au
Unit	ppm	ppm	ppm	%	%	gm/t
MDL	3	5	1	-5.1	0.01	0.9
1649144	Rock					
1649145	Drill Core					
1649146	Drill Core					
1649147	Drill Core					
1649148	Drill Core					
1649149	Drill Core					13.4
1649150	Drill Core					
1649151	Rock Pulp					
1649152	Drill Core					14.2
1649153	Drill Core					
1649154	Rock					
1649155	Drill Core					
1649156	Drill Core					
1649157	Drill Core					
1649158	Drill Core					
1649159	Drill Core					
1649160	Drill Core					
1649161	Drill Core					
1649162	Drill Core					
1649163	Drill Core					
1649164	Drill Core					
1649165	Rock Pulp					
1649166	Drill Core					
1649167	Drill Core					
1649168	Drill Core					
1649169	Drill Core					
1649170	Drill Core					
1649171	Drill Core					
1649172	Drill Core					
1649173	Drill Core					



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CERTIFICATE OF ANALYSIS

TIM18001821.1

Method	WGHT	FA430	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	
Unit	kg	ppm	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%	
MDL	0.01	0.005	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01	
1649174	Rock	0.12	<0.005	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.60	<0.02	<0.01	<0.001	<0.01	<0.01	0.03	<0.01	<0.001	<0.01
1649175	Drill Core	2.15	0.037	<0.001	0.006	<0.02	<0.01	<2	0.002	<0.001	0.02	2.02	<0.02	0.07	<0.001	<0.01	<0.01	3.09	0.04	0.001	0.24
1649176	Drill Core	2.42	0.020	<0.001	0.003	<0.02	<0.01	<2	0.004	0.002	0.02	3.70	<0.02	0.07	<0.001	<0.01	<0.01	2.73	0.04	0.004	0.62
1649177	Drill Core	2.54	0.007	<0.001	<0.001	<0.02	<0.01	<2	0.003	<0.001	0.02	1.93	<0.02	0.07	<0.001	<0.01	<0.01	2.02	0.03	0.002	0.89
1649178	Drill Core	2.28	0.008	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.03	1.71	<0.02	0.08	<0.001	<0.01	<0.01	2.20	0.04	0.004	1.03
1649179	Drill Core	2.34	0.006	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.02	1.61	<0.02	0.08	<0.001	<0.01	<0.01	2.52	0.03	0.002	0.84
1649180	Drill Core	2.49	0.005	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.01	1.45	<0.02	0.09	<0.001	<0.01	<0.01	2.91	0.05	0.004	0.22
1649181	Drill Core	2.55	0.009	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	<0.01	1.77	<0.02	0.08	<0.001	<0.01	<0.01	1.69	0.05	<0.001	0.21
1649182	Drill Core	2.35	0.022	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.02	1.45	<0.02	0.08	<0.001	<0.01	<0.01	6.11	0.04	0.004	0.30
1649183	Drill Core	2.35	0.007	<0.001	0.003	<0.02	<0.01	<2	0.006	<0.001	0.03	1.73	<0.02	0.07	<0.001	<0.01	<0.01	6.38	0.05	0.005	0.56
1649184	Drill Core	2.19	0.036	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	<0.01	1.79	<0.02	0.09	<0.001	<0.01	<0.01	1.78	0.03	0.002	0.32



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CERTIFICATE OF ANALYSIS

TIM18001821.1

Method	Analyte	MA370	MA370	MA370	MA370	MA370	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300
		Al	Na	K	W	S	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr
Unit		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm
MDL		0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5
1649174	Rock	0.22	0.05	0.07	<0.01	<0.05															
1649175	Drill Core	7.47	1.65	2.74	<0.01	0.93															
1649176	Drill Core	8.15	1.57	2.65	<0.01	1.91															
1649177	Drill Core	8.68	1.76	2.70	<0.01	0.62															
1649178	Drill Core	8.50	1.54	2.72	<0.01	0.47															
1649179	Drill Core	8.50	1.67	2.69	<0.01	0.45															
1649180	Drill Core	8.58	1.82	2.83	<0.01	0.38															
1649181	Drill Core	9.27	1.93	2.63	<0.01	0.47															
1649182	Drill Core	7.05	1.32	2.12	<0.01	0.39															
1649183	Drill Core	6.94	0.88	2.31	<0.01	0.34															
1649184	Drill Core	9.51	1.71	3.10	<0.01	0.31	62.02	19.73	2.74	0.59	2.66	2.31	3.71	0.78	0.07	0.02	0.009	467	28	871	92



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CERTIFICATE OF ANALYSIS

TIM18001821.1

Method	LF300	LF300	LF300	LF300	LF300	FA530
Analyte	Y	Nb	Sc	LOI	Sum	Au
Unit	ppm	ppm	ppm	%	%	gm/t
MDL	3	5	1	-5.1	0.01	0.9
1649174	Rock					
1649175	Drill Core					
1649176	Drill Core					
1649177	Drill Core					
1649178	Drill Core					
1649179	Drill Core					
1649180	Drill Core					
1649181	Drill Core					
1649182	Drill Core					
1649183	Drill Core					
1649184	Drill Core	5	<5	5	5.2	99.96



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QUALITY CONTROL REPORT

TIM18001821.1

Method	Analyte	Unit	MDL	WGHT	FA430	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370		
				Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg
				kg	ppm	%	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	
1649131	Drill Core			1.85	0.110	<0.001	0.004	<0.02	<0.01	<2	0.007	0.003	0.03	5.15	<0.02	0.02	<0.001	<0.01	<0.01	1.42	0.06	0.006	1.07
1649168	Drill Core			2.67	0.049	<0.001	0.002	<0.02	0.01	<2	0.006	0.001	0.05	2.11	0.17	0.04	<0.001	<0.01	<0.01	3.92	0.03	<0.001	0.80
Pulp Duplicates																							
1649140	Drill Core			2.43	2.092	<0.001	0.003	<0.02	<0.01	5	0.002	<0.001	0.02	4.81	0.19	<0.01	<0.001	<0.01	<0.01	0.66	0.04	0.003	0.35
REP 1649140	QC					<0.001	0.003	<0.02	<0.01	5	0.002	<0.001	0.02	4.75	0.20	<0.01	<0.001	<0.01	<0.01	0.66	0.04	0.003	0.34
REP 1649149	QC																						
1649175	Drill Core			2.15	0.037	<0.001	0.006	<0.02	<0.01	<2	0.002	<0.001	0.02	2.02	<0.02	0.07	<0.001	<0.01	<0.01	3.09	0.04	0.001	0.24
REP 1649175	QC					<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.02	2.03	<0.02	0.07	<0.001	<0.01	<0.01	3.05	0.04	0.005	0.25
1649178	Drill Core			2.28	0.008	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.03	1.71	<0.02	0.08	<0.001	<0.01	<0.01	2.20	0.04	0.004	1.03
REP 1649178	QC				<0.005																		
1649184	Drill Core			2.19	0.036	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	<0.01	1.79	<0.02	0.09	<0.001	<0.01	<0.01	1.78	0.03	0.002	0.32
REP 1649184	QC					<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	<0.01	1.84	<0.02	0.09	<0.001	<0.01	<0.01	1.84	0.03	0.002	0.33
Core Reject Duplicates																							
1649115	Drill Core			2.31	0.018	<0.001	0.004	<0.02	<0.01	<2	0.007	0.003	0.04	4.25	<0.02	0.03	<0.001	<0.01	<0.01	1.51	0.06	0.005	0.77
DUP 1649115	QC				0.018	<0.001	0.004	<0.02	<0.01	<2	0.007	0.003	0.04	4.26	<0.02	0.03	<0.001	<0.01	<0.01	1.52	0.06	0.005	0.78
1649149	Drill Core			2.60	>10	<0.001	0.006	<0.02	<0.01	7	0.001	<0.001	0.02	21.96	0.71	<0.01	<0.001	<0.01	<0.01	0.34	0.04	<0.001	0.19
DUP 1649149	QC				>10	<0.001	0.006	<0.02	<0.01	7	0.001	<0.001	0.02	22.43	0.73	<0.01	<0.001	<0.01	<0.01	0.33	0.04	<0.001	0.18
1649183	Drill Core			2.35	0.007	<0.001	0.003	<0.02	<0.01	<2	0.006	<0.001	0.03	1.73	<0.02	0.07	<0.001	<0.01	<0.01	6.38	0.05	0.005	0.56
DUP 1649183	QC				0.008	<0.001	<0.001	<0.02	<0.01	<2	0.003	<0.001	0.03	1.69	<0.02	0.07	<0.001	<0.01	<0.01	6.41	0.05	0.005	0.56
Reference Materials																							
STD CDN-ME-14	Standard					0.002	1.237	0.50	3.03	43	0.002	0.018	0.09	17.90	<0.02	<0.01	0.009	<0.01	<0.01	0.73	0.02	0.001	1.24
STD CDN-ME-9	Standard					<0.001	0.654	<0.02	0.01	2	0.922	0.018	0.12	13.64	<0.02	0.03	<0.001	<0.01	<0.01	4.05	0.06	0.031	3.85
STD CDN-ME-14	Standard					0.001	1.210	0.49	3.06	42	0.002	0.017	0.09	17.58	<0.02	<0.01	0.009	<0.01	<0.01	0.76	0.02	0.001	1.26
STD CDN-ME-9	Standard					<0.001	0.639	<0.02	0.03	<2	0.906	0.016	0.12	13.26	<0.02	0.03	<0.001	<0.01	<0.01	4.10	0.06	0.030	3.87
STD CDN-ME-14	Standard					0.001	1.257	0.48	3.18	43	0.002	0.017	0.09	18.07	<0.02	<0.01	0.009	<0.01	<0.01	0.77	0.02	<0.001	1.28
STD CDN-ME-9	Standard					<0.001	0.656	<0.02	<0.01	<2	0.959	0.016	0.12	13.77	<0.02	0.03	<0.001	<0.01	<0.01	4.24	0.06	0.029	4.02
STD OXC145	Standard					0.203																	
STD OXC145	Standard					0.206																	
STD OXC145	Standard					0.209																	



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Project: Mikwam (MK)
Report Date: September 22, 2018

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QUALITY CONTROL REPORT

TIM18001821.1

Method	Analyte	MA370	MA370	MA370	MA370	MA370	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300
		Al	Na	K	W	S	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr
Unit		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm
MDL		0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5
1649131	Drill Core	8.35	1.49	3.08	<0.01	4.24															
1649168	Drill Core	8.20	1.89	3.01	<0.01	0.95															
Pulp Duplicates																					
1649140	Drill Core	2.06	0.27	0.93	<0.01	4.96															
REP 1649140	QC	2.08	0.27	0.93	<0.01	4.68															
REP 1649149	QC																				
1649175	Drill Core	7.47	1.65	2.74	<0.01	0.93															
REP 1649175	QC	7.68	1.64	2.77	<0.01	0.93															
1649178	Drill Core	8.50	1.54	2.72	<0.01	0.47															
REP 1649178	QC																				
1649184	Drill Core	9.51	1.71	3.10	<0.01	0.31	62.02	19.73	2.74	0.59	2.66	2.31	3.71	0.78	0.07	0.02	0.009	467	28	871	92
REP 1649184	QC	9.91	1.74	3.15	<0.01	0.31															
Core Reject Duplicates																					
1649115	Drill Core	7.41	2.38	2.07	<0.01	4.42															
DUP 1649115	QC	7.45	2.39	2.15	<0.01	4.40															
1649149	Drill Core	1.21	0.03	0.50	<0.01	22.46															
DUP 1649149	QC	1.23	0.02	0.50	<0.01	22.93															
1649183	Drill Core	6.94	0.88	2.31	<0.01	0.34															
DUP 1649183	QC	7.00	0.88	2.33	<0.01	0.32															
Reference Materials																					
STD CDN-ME-14	Standard	4.43	0.52	1.79	<0.01	15.68															
STD CDN-ME-9	Standard	6.66	1.86	0.66	<0.01	2.44															
STD CDN-ME-14	Standard	4.32	0.52	1.70	<0.01	15.59															
STD CDN-ME-9	Standard	6.39	1.78	0.63	<0.01	2.51															
STD CDN-ME-14	Standard	4.45	0.53	1.76	<0.01	16.16															
STD CDN-ME-9	Standard	6.64	1.88	0.65	<0.01	2.48															
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				



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QUALITY CONTROL REPORT

TIM18001821.1

Method	LF300	LF300	LF300	LF300	LF300	FA530
Analyte	Y	Nb	Sc	LOI	Sum	Au
Unit	ppm	ppm	ppm	%	%	gm/t
MDL	3	5	1	-5.1	0.01	0.9
1649131	Drill Core					
1649168	Drill Core					
Pulp Duplicates						
1649140	Drill Core					
REP 1649140	QC					
REP 1649149	QC					12.6
1649175	Drill Core					
REP 1649175	QC					
1649178	Drill Core					
REP 1649178	QC					
1649184	Drill Core	5	<5	5	5.2	99.96
REP 1649184	QC					
Core Reject Duplicates						
1649115	Drill Core					
DUP 1649115	QC					
1649149	Drill Core					13.4
DUP 1649149	QC					13.0
1649183	Drill Core					
DUP 1649183	QC					
Reference Materials						
STD CDN-ME-14	Standard					
STD CDN-ME-9	Standard					
STD CDN-ME-14	Standard					
STD CDN-ME-9	Standard					
STD CDN-ME-14	Standard					
STD CDN-ME-9	Standard					
STD OXC145	Standard					
STD OXC145	Standard					
STD OXC145	Standard					



QUALITY CONTROL REPORT

TIM18001821.1

		WGHT	FA430	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg
		kg	ppm	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.005	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01
STD OXH139	Standard		1.288																		
STD OXH139	Standard		1.277																		
STD OXH139	Standard		1.300																		
STD OXN134	Standard		7.521																		
STD OXN134	Standard		7.579																		
STD OXN134	Standard		7.695																		
STD OXP116	Standard																				
STD OXQ90	Standard																				
STD OXQ90	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD OXC145 Expected			0.212																		
STD OXN134 Expected			7.667																		
STD OXH139 Expected			1.312																		
STD OXP116 Expected																					
STD OXQ90 Expected																					
STD SO-19 Expected																					
STD CDN-ME-14 Expected				1.221	0.495	3.17	43.5	0.002	0.0172	0.0883	18.04	0.0088		0.0088		0.0094	0.747	0.0147	0.0014	1.28	
STD CDN-ME-9 Expected				0.654		0.012		0.912	0.0169	0.121	13.84		0.03				4.21	0.06	0.0284	4.05	
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank																				
BLK	Blank																				
BLK	Blank			<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.02	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01
BLK	Blank			<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.02	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01



QUALITY CONTROL REPORT

TIM18001821.1

		MA370	MA370	MA370	MA370	MA370	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	
		Al	Na	K	W	S	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	
		0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	
STD OXH139	Standard																					
STD OXH139	Standard																					
STD OXH139	Standard																					
STD OXN134	Standard																					
STD OXN134	Standard																					
STD OXN134	Standard																					
STD OXP116	Standard																					
STD OXQ90	Standard																					
STD OXQ90	Standard																					
STD SO-19	Standard						60.42	13.97	7.44	2.94	5.97	4.05	1.31	0.70	0.31	0.13	0.503	462	473	314	118	
STD SO-19	Standard						60.48	13.99	7.43	2.94	5.93	4.01	1.31	0.70	0.32	0.13	0.501	464	469	313	118	
STD OXC145 Expected																						
STD OXN134 Expected																						
STD OXH139 Expected																						
STD OXP116 Expected																						
STD OXQ90 Expected																						
STD SO-19 Expected							61.13	13.95	7.47	2.88	6	4.11	1.29	0.69	0.32	0.13	0.5	486	470	317.1	112	
STD CDN-ME-14 Expected		4.47	0.53	1.7	16.14																	
STD CDN-ME-9 Expected		6.74	1.86	0.616	2.58																	
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank						0.10	0.02	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.05																
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.05																



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Project: Mikwam (MK)
Report Date: September 22, 2018

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QUALITY CONTROL REPORT

TIM18001821.1

		LF300	LF300	LF300	LF300	LF300	FA530
		Y	Nb	Sc	LOI	Sum	Au
		ppm	ppm	ppm	%	%	gm/t
		3	5	1	-5.1	0.01	0.9
STD OXH139	Standard						
STD OXH139	Standard						
STD OXH139	Standard						
STD OXN134	Standard						
STD OXN134	Standard						
STD OXN134	Standard						
STD OXP116	Standard						15.6
STD OXQ90	Standard						25.3
STD OXQ90	Standard						24.9
STD SO-19	Standard	34	75	26	1.9	99.87	
STD SO-19	Standard	35	78	26	1.9	99.86	
STD OXC145 Expected							
STD OXN134 Expected							
STD OXH139 Expected							
STD OXP116 Expected							14.92
STD OXQ90 Expected							24.88
STD SO-19 Expected		35.5	68.5	27			
STD CDN-ME-14 Expected							
STD CDN-ME-9 Expected							
BLK	Blank						
BLK	Blank						
BLK	Blank						
BLK	Blank						
BLK	Blank						
BLK	Blank						
BLK	Blank						<0.9
BLK	Blank	<3	<5	<1	0.0	0.13	
BLK	Blank						
BLK	Blank						



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QUALITY CONTROL REPORT

TIM18001821.1

		WGHT	FA430	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg
		kg	ppm	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.005	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01
BLK	Blank			<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.02	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01
Prep Wash																					
ROCK-TIM	Prep Blank		<0.005	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	0.06	1.96	<0.02	0.02	<0.001	<0.01	<0.01	1.41	0.04	<0.001	0.53
ROCK-TIM	Prep Blank		<0.005	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	0.06	1.93	<0.02	0.02	<0.001	<0.01	<0.01	1.45	0.04	<0.001	0.54



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QUALITY CONTROL REPORT

TIM18001821.1

		MA370	MA370	MA370	MA370	MA370	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	
		Al	Na	K	W	S	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm
		0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.05															
Prep Wash																					
ROCK-TIM	Prep Blank	7.22	3.48	1.81	<0.01	0.06															
ROCK-TIM	Prep Blank	7.15	3.44	1.75	<0.01	<0.05															



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Report Date: September 22, 2018

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QUALITY CONTROL REPORT

TIM18001821.1

		LF300	LF300	LF300	LF300	LF300	FA530
		Y	Nb	Sc	LOI	Sum	Au
		ppm	ppm	ppm	%	%	gm/t
		3	5	1	-5.1	0.01	0.9
BLK	Blank						
Prep Wash							
ROCK-TIM	Prep Blank						
ROCK-TIM	Prep Blank						



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Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: September 05, 2018
Report Date: September 26, 2018
Page: 1 of 4

CERTIFICATE OF ANALYSIS

TIM18001822.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID: Batch #004
P.O. Number: Batch #004
Number of Samples: 74

SAMPLE DISPOSAL

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	70	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	4	Sort, label and box pulps			TIM
FA430	74	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	74	Environmental disposal charge-Fire assay lead waste			TIM
MA370	73	4-Acid Digestion ICP-ES Finish	0.5	Completed	VAN
LF300	2	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed	VAN
SHP01	74	Per sample shipping charges for branch shipments			TIM

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: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi


JEFFREY CANNON
Geochemistry Department Supervisor

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 Commodities Canada Ltd.

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CERTIFICATE OF ANALYSIS

TIM18001822.1

Method	WGHT	FA430	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	
Unit	kg	ppm	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%	
MDL	0.01	0.005	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01	
1649185	Drill Core	2.79	<0.005	<0.001	0.007	<0.02	<0.01	<2	0.003	0.001	0.02	2.57	<0.02	0.03	<0.001	<0.01	<0.01	1.62	0.04	0.003	0.87
1649186	Drill Core	1.74	<0.005	<0.001	0.003	<0.02	<0.01	<2	0.002	<0.001	0.04	2.15	<0.02	0.02	<0.001	<0.01	<0.01	1.87	0.04	0.003	0.97
1649187	Drill Core	2.79	0.049	<0.001	0.004	<0.02	0.02	<2	0.020	0.003	0.06	11.47	<0.02	0.03	<0.001	<0.01	<0.01	3.69	0.04	0.017	1.76
1649188	Drill Core	2.42	0.046	<0.001	0.003	<0.02	0.02	<2	0.012	0.003	0.05	13.65	<0.02	0.02	<0.001	<0.01	<0.01	2.98	0.04	0.011	1.44
1649189	Drill Core	2.71	0.077	<0.001	0.003	<0.02	0.03	<2	0.006	0.003	0.04	13.87	<0.02	0.02	<0.001	<0.01	<0.01	2.23	0.05	0.003	1.07
1649190	Drill Core	2.16	0.016	<0.001	0.003	<0.02	0.01	<2	0.006	0.003	0.04	5.04	<0.02	0.03	<0.001	<0.01	<0.01	2.06	0.06	0.004	0.94
1649191	Rock	0.14	<0.005	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.86	<0.02	<0.01	<0.001	<0.01	<0.01	0.02	<0.01	<0.001	<0.01
1649192	Drill Core	2.44	0.017	<0.001	0.004	<0.02	<0.01	<2	0.006	0.002	0.04	3.64	<0.02	0.03	<0.001	<0.01	<0.01	2.49	0.05	0.004	1.19
1649193	Drill Core	2.12	0.012	<0.001	0.003	<0.02	<0.01	<2	0.003	0.001	0.04	2.82	<0.02	0.02	<0.001	<0.01	<0.01	2.01	0.04	0.003	0.94
1649194	Drill Core	2.53	0.006	<0.001	0.003	<0.02	0.01	<2	0.003	0.001	0.04	2.24	<0.02	0.03	<0.001	<0.01	<0.01	1.63	0.04	0.002	0.71
1649195	Drill Core	2.35	<0.005	<0.001	0.003	<0.02	<0.01	<2	0.004	0.002	0.05	3.00	<0.02	0.03	<0.001	<0.01	<0.01	1.82	0.06	0.004	0.74
1649196	Drill Core	3.18	<0.005	<0.001	0.004	<0.02	0.01	<2	0.006	0.003	0.05	3.96	<0.02	0.03	<0.001	<0.01	<0.01	1.79	0.06	0.005	0.82
1649197	Drill Core	1.84	<0.005	<0.001	0.001	<0.02	<0.01	<2	0.002	<0.001	0.05	1.87	<0.02	0.03	<0.001	<0.01	<0.01	2.14	0.03	0.002	0.85
1649198	Drill Core	2.16	<0.005	<0.001	0.001	<0.02	0.02	<2	0.002	<0.001	0.05	1.94	<0.02	0.03	<0.001	<0.01	<0.01	2.26	0.03	0.001	1.02
1649199	Drill Core	2.42	0.014	<0.001	0.003	<0.02	<0.01	<2	0.001	<0.001	0.02	2.00	<0.02	0.02	<0.001	<0.01	<0.01	1.86	0.04	0.001	1.01
1649200	Drill Core	2.21	0.014	<0.001	0.002	<0.02	<0.01	<2	0.001	<0.001	0.03	2.13	<0.02	0.02	<0.001	<0.01	<0.01	1.79	0.05	0.001	0.95
1649201	Drill Core	2.31	0.016	<0.001	0.002	<0.02	<0.01	<2	0.001	<0.001	0.04	1.82	<0.02	0.02	<0.001	<0.01	<0.01	2.31	0.05	<0.001	1.08
1649202	Drill Core	2.68	0.028	<0.001	0.002	<0.02	<0.01	<2	0.002	0.001	0.04	2.71	<0.02	0.03	<0.001	<0.01	<0.01	2.08	0.05	0.003	0.97
1649203	Drill Core	2.22	0.234	<0.001	0.002	<0.02	<0.01	<2	0.007	0.002	0.04	3.95	0.07	0.02	<0.001	<0.01	<0.01	2.10	0.05	0.006	1.09
1649204	Drill Core	1.68	0.092	<0.001	0.002	<0.02	<0.01	<2	0.002	<0.001	0.07	2.22	0.02	0.02	<0.001	<0.01	<0.01	2.21	0.03	0.003	1.02
1649205	Rock Pulp	0.07	0.341	<0.001	0.011	<0.02	<0.01	<2	0.013	0.004	0.14	8.20	<0.02	0.03	<0.001	<0.01	<0.01	6.71	0.09	0.016	4.19
1649206	Drill Core	1.68	0.126	<0.001	<0.001	<0.02	<0.01	<2	0.001	<0.001	0.03	1.79	0.17	<0.01	<0.001	<0.01	<0.01	1.01	0.02	0.001	0.49
1649207	Drill Core	2.58	0.187	<0.001	0.001	<0.02	<0.01	<2	0.003	<0.001	0.05	2.59	0.06	0.01	<0.001	<0.01	<0.01	1.78	0.03	0.002	0.87
1649208	Drill Core	1.68	0.201	<0.001	0.004	<0.02	0.02	<2	0.014	0.003	0.07	5.79	0.05	0.02	<0.001	<0.01	<0.01	2.84	0.05	0.010	1.38
1649209	Drill Core	2.54	0.135	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.03	1.80	0.02	<0.01	<0.001	<0.01	<0.01	0.96	0.02	0.002	0.45
1649210	Drill Core	2.47	0.922	<0.001	0.002	<0.02	<0.01	<2	0.001	<0.001	0.02	4.71	0.27	<0.01	<0.001	<0.01	<0.01	1.05	0.04	0.001	0.51
1649211	Rock	0.17	0.006	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.76	<0.02	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.001	0.02
1649212	Drill Core	2.35	2.680	<0.001	0.004	<0.02	<0.01	3	<0.001	<0.001	0.01	12.01	0.31	<0.01	<0.001	<0.01	<0.01	0.51	0.06	<0.001	0.56
1649213	Drill Core	2.14	5.713	<0.001	0.006	<0.02	<0.01	4	<0.001	<0.001	<0.01	15.02	0.31	<0.01	<0.001	<0.01	<0.01	0.26	0.05	<0.001	0.16
1649214	Drill Core	2.60	4.511	<0.001	0.006	<0.02	<0.01	4	0.002	<0.001	0.01	14.85	0.44	<0.01	<0.001	<0.01	<0.01	0.47	0.08	0.001	0.31



BUREAU VERITAS
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Project: Mikwam (MK)
Report Date: September 26, 2018

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CERTIFICATE OF ANALYSIS

TIM18001822.1

Method	Analyte	MA370	MA370	MA370	MA370	MA370	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	
		Al	Na	K	W	S	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	
Unit		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	
MDL		0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	
1649185	Drill Core	8.06	1.50	2.61	<0.01	1.29																
1649186	Drill Core	6.41	0.42	2.54	<0.01	1.37																
1649187	Drill Core	5.66	1.03	1.89	<0.01	12.00																
1649188	Drill Core	5.44	1.02	1.77	<0.01	14.52																
1649189	Drill Core	5.91	1.56	1.74	<0.01	14.96																
1649190	Drill Core	7.66	2.71	1.96	<0.01	5.09																
1649191	Rock	0.18	0.05	0.04	<0.01	<0.05																
1649192	Drill Core	7.26	2.31	2.04	<0.01	3.48																
1649193	Drill Core	6.79	1.74	2.12	<0.01	2.19																
1649194	Drill Core	7.30	2.68	1.85	<0.01	1.19																
1649195	Drill Core	7.78	2.74	2.04	<0.01	1.63																
1649196	Drill Core	7.75	2.16	2.27	<0.01	2.04																
1649197	Drill Core	7.11	1.11	2.57	<0.01	0.45																
1649198	Drill Core	7.13	0.69	2.81	<0.01	0.50																
1649199	Drill Core	7.06	1.01	2.67	<0.01	1.34																
1649200	Drill Core	7.50	1.47	2.63	<0.01	1.48																
1649201	Drill Core	7.30	1.51	2.49	<0.01	1.15																
1649202	Drill Core	7.55	2.73	1.98	<0.01	2.13																
1649203	Drill Core	6.59	1.79	1.97	<0.01	3.43																
1649204	Drill Core	4.42	0.94	1.48	<0.01	1.30																
1649205	Rock Pulp	7.27	2.32	0.42	<0.01	0.09																
1649206	Drill Core	3.07	0.40	1.14	<0.01	1.19																
1649207	Drill Core	4.32	0.49	1.68	<0.01	1.92																
1649208	Drill Core	5.37	0.46	2.10	<0.01	5.13																
1649209	Drill Core	2.65	0.51	0.93	<0.01	1.33																
1649210	Drill Core	2.87	0.22	1.18	<0.01	4.52																
1649211	Rock	0.19	0.05	0.04	<0.01	<0.05																
1649212	Drill Core	1.45	0.07	0.42	<0.01	11.61																
1649213	Drill Core	0.59	0.04	0.17	<0.01	14.16																
1649214	Drill Core	1.04	0.02	0.32	<0.01	14.37																

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.



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Project: Mikwam (MK)
Report Date: September 26, 2018

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CERTIFICATE OF ANALYSIS

TIM18001822.1

Method	LF300	LF300	LF300	LF300	LF300
Analyte	Y	Nb	Sc	LOI	Sum
Unit	ppm	ppm	ppm	%	%
MDL	3	5	1	-5.1	0.01
1649185	Drill Core				
1649186	Drill Core				
1649187	Drill Core				
1649188	Drill Core				
1649189	Drill Core				
1649190	Drill Core				
1649191	Rock				
1649192	Drill Core				
1649193	Drill Core				
1649194	Drill Core				
1649195	Drill Core				
1649196	Drill Core				
1649197	Drill Core				
1649198	Drill Core				
1649199	Drill Core				
1649200	Drill Core				
1649201	Drill Core				
1649202	Drill Core				
1649203	Drill Core				
1649204	Drill Core				
1649205	Rock Pulp				
1649206	Drill Core				
1649207	Drill Core				
1649208	Drill Core				
1649209	Drill Core				
1649210	Drill Core				
1649211	Rock				
1649212	Drill Core				
1649213	Drill Core				
1649214	Drill Core				



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Project: Mikwam (MK)
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CERTIFICATE OF ANALYSIS

TIM18001822.1

Method	WGHT	FA430	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	
Unit	kg	ppm	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%	
MDL	0.01	0.005	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01	
1649215	Drill Core	2.33	1.146	<0.001	0.002	<0.02	0.03	<2	0.003	<0.001	0.02	5.49	0.31	<0.01	<0.001	<0.01	<0.01	0.82	0.04	0.002	0.56
1649216	Drill Core	2.25	0.879	<0.001	0.002	<0.02	0.02	3	0.003	0.001	0.02	6.05	0.35	<0.01	<0.001	<0.01	<0.01	0.75	0.04	0.002	0.89
1649217	Drill Core	2.41	3.088	<0.001	0.004	<0.02	<0.01	3	0.002	<0.001	0.02	10.31	0.37	0.01	<0.001	<0.01	<0.01	0.93	0.05	0.002	0.80
1649218	Rock Pulp	0.07	0.339	<0.001	0.011	<0.02	<0.01	<2	0.013	0.005	0.14	8.23	<0.02	0.03	<0.001	<0.01	<0.01	6.73	0.09	0.017	4.20
1649219	Drill Core	2.29	0.436	<0.001	0.003	<0.02	0.01	<2	0.004	0.002	0.05	6.02	0.44	0.02	<0.001	<0.01	<0.01	1.80	0.04	0.004	1.23
1649220	Drill Core	2.29	3.296	<0.001	0.006	<0.02	<0.01	3	0.002	<0.001	0.03	15.58	0.55	0.01	<0.001	<0.01	<0.01	1.20	0.06	<0.001	0.75
1649221	Drill Core	2.52	0.697	<0.001	0.004	<0.02	<0.01	<2	0.004	0.001	0.04	9.17	0.59	0.02	<0.001	<0.01	<0.01	1.38	0.07	0.002	1.19
1649222	Drill Core	2.60	2.290	<0.001	0.003	<0.02	<0.01	<2	0.007	0.002	0.05	6.98	0.34	0.02	<0.001	<0.01	<0.01	1.74	0.05	0.005	1.04
1649223	Drill Core	2.25	0.310	<0.001	0.005	<0.02	<0.01	<2	0.001	<0.001	0.08	17.78	0.69	0.01	<0.001	<0.01	<0.01	2.55	0.07	<0.001	0.99
1649224	Drill Core	2.51	0.626	<0.001	0.006	<0.02	<0.01	<2	0.006	0.002	0.08	12.13	0.84	0.02	<0.001	<0.01	<0.01	2.56	0.07	0.004	1.58
1649225	Drill Core	2.02	0.526	<0.001	0.001	<0.02	<0.01	<2	0.004	0.001	0.08	4.39	0.32	0.02	<0.001	<0.01	<0.01	2.48	0.04	0.003	1.04
1649226	Drill Core	2.05	0.553	<0.001	0.002	<0.02	<0.01	<2	0.003	<0.001	0.05	4.38	0.22	0.02	<0.001	<0.01	<0.01	1.67	0.03	0.003	0.68
1649227	Drill Core	2.36	2.094	<0.001	0.003	<0.02	<0.01	<2	0.002	<0.001	0.03	11.16	0.72	0.01	<0.001	<0.01	<0.01	1.22	0.05	0.001	0.61
1649228	Drill Core	1.87	0.839	<0.001	0.003	<0.02	<0.01	<2	0.004	0.001	0.06	8.22	0.54	0.02	<0.001	<0.01	<0.01	1.88	0.05	0.003	1.15
1649229	Drill Core	2.37	0.351	<0.001	0.002	<0.02	<0.01	<2	0.003	0.001	0.08	6.48	0.64	0.02	<0.001	<0.01	<0.01	2.30	0.04	0.003	1.12
1649230	Drill Core	2.55	0.257	<0.001	0.002	<0.02	<0.01	<2	0.004	0.001	0.08	6.53	0.60	0.02	<0.001	<0.01	<0.01	1.93	0.04	0.004	1.07
1649231	Drill Core	2.07	0.277	<0.001	0.002	<0.02	<0.01	<2	0.005	0.002	0.07	5.73	0.39	0.02	<0.001	<0.01	<0.01	2.09	0.04	0.006	1.10
1649232	Drill Core	2.66	0.535	<0.001	0.003	<0.02	<0.01	<2	0.003	0.001	0.06	6.53	0.40	0.02	<0.001	<0.01	<0.01	2.23	0.05	0.002	1.11
1649233	Rock Pulp	0.05	6.727	<0.001	0.012	<0.02	<0.01	<2	0.017	0.003	0.09	5.39	<0.02	<0.01	<0.001	<0.01	<0.01	4.80	0.03	0.040	4.28
1649234	Drill Core	2.18	2.998	<0.001	0.006	<0.02	<0.01	<2	0.001	<0.001	0.05	12.58	0.54	0.01	<0.001	<0.01	<0.01	1.58	0.07	0.001	0.83
1649235	Drill Core	2.61	8.508	<0.001	0.004	<0.02	<0.01	3	0.002	<0.001	0.04	14.67	0.43	<0.01	<0.001	<0.01	<0.01	1.28	0.05	0.001	0.48
1649236	Drill Core	2.10	0.817	<0.001	0.003	<0.02	0.02	<2	0.003	0.001	0.07	7.82	0.79	0.02	<0.001	<0.01	<0.01	1.82	0.05	0.003	1.24
1649237	Drill Core	2.39	0.524	<0.001	0.003	<0.02	<0.01	<2	0.007	0.002	0.09	6.70	0.42	0.02	<0.001	<0.01	<0.01	2.60	0.04	0.004	1.09
1649238	Rock	0.15	0.006	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.75	<0.02	<0.01	<0.001	<0.01	<0.01	0.02	<0.01	<0.001	0.02
1649239	Drill Core	2.09	0.725	<0.001	0.003	<0.02	<0.01	<2	0.007	0.002	0.08	7.47	0.55	0.02	<0.001	<0.01	<0.01	2.30	0.05	0.005	1.20
1649240	Drill Core	2.54	1.837	<0.001	0.004	<0.02	<0.01	<2	0.003	<0.001	0.04	11.79	0.75	0.01	<0.001	<0.01	<0.01	1.04	0.06	0.002	1.12
1649241	Drill Core	2.51	2.886	<0.001	0.004	<0.02	<0.01	2	0.003	0.001	0.05	9.09	0.93	0.01	<0.001	<0.01	<0.01	1.64	0.04	0.002	0.97
1649242	Drill Core	2.69	5.305	<0.001	0.007	<0.02	<0.01	4	0.002	<0.001	0.02	17.68	1.16	<0.01	<0.001	<0.01	<0.01	0.85	0.06	<0.001	0.44
1649243	Drill Core	2.28	2.161	<0.001	0.003	<0.02	<0.01	<2	0.003	<0.001	0.02	8.16	1.10	<0.01	<0.001	<0.01	<0.01	1.16	0.04	0.003	0.56
1649244	Drill Core	1.75	0.069	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.02	1.33	0.04	<0.01	<0.001	<0.01	<0.01	0.90	0.02	0.003	0.40



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CERTIFICATE OF ANALYSIS

TIM18001822.1

Method Analyte Unit	MA370 AI	MA370 Na	MA370 K	MA370 W	MA370 S	LF300 SiO2	LF300 Al2O3	LF300 Fe2O3	LF300 MgO	LF300 CaO	LF300 Na2O	LF300 K2O	LF300 TiO2	LF300 P2O5	LF300 MnO	LF300 Cr2O3	LF300 Ba	LF300 Ni	LF300 Sr	LF300 Zr	
																					MDL
1649215	Drill Core	3.26	0.42	1.24	<0.01	4.63															
1649216	Drill Core	4.53	0.56	1.56	<0.01	4.51															
1649217	Drill Core	3.81	0.89	1.02	<0.01	8.45															
1649218	Rock Pulp	7.25	2.32	0.42	<0.01	0.12															
1649219	Drill Core	7.85	2.42	2.18	<0.01	3.48															
1649220	Drill Core	3.13	0.77	0.83	<0.01	13.93															
1649221	Drill Core	7.33	1.99	1.93	<0.01	5.86															
1649222	Drill Core	6.74	3.23	1.20	<0.01	3.63															
1649223	Drill Core	1.93	0.51	0.39	<0.01	14.68															
1649224	Drill Core	5.46	1.74	1.02	<0.01	7.34															
1649225	Drill Core	5.77	1.10	2.18	<0.01	2.59															
1649226	Drill Core	4.12	0.78	1.53	<0.01	2.70															
1649227	Drill Core	3.38	0.74	1.12	<0.01	9.72															
1649228	Drill Core	5.87	1.44	1.70	<0.01	5.12															
1649229	Drill Core	5.57	1.58	1.60	<0.01	3.09															
1649230	Drill Core	5.82	1.63	1.69	<0.01	2.91															
1649231	Drill Core	7.12	1.64	2.38	<0.01	2.51															
1649232	Drill Core	6.49	1.33	2.19	<0.01	4.07															
1649233	Rock Pulp	5.66	1.47	0.63	<0.01	0.76															
1649234	Drill Core	3.67	1.04	0.90	<0.01	9.95															
1649235	Drill Core	1.71	0.10	0.71	<0.01	13.61															
1649236	Drill Core	7.05	2.00	1.88	<0.01	4.04															
1649237	Drill Core	7.12	1.72	2.46	<0.01	4.70															
1649238	Rock	0.24	0.07	0.06	<0.01	<0.05															
1649239	Drill Core	7.07	2.07	1.99	<0.01	4.72															
1649240	Drill Core	4.54	0.47	1.35	<0.01	7.23															
1649241	Drill Core	4.05	0.16	1.57	<0.01	5.70															
1649242	Drill Core	1.09	0.03	0.35	<0.01	14.34															
1649243	Drill Core	1.18	0.24	0.31	<0.01	5.10															
1649244	Drill Core	1.30	0.66	0.17	<0.01	0.35															



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CERTIFICATE OF ANALYSIS

TIM18001822.1

Method	LF300	LF300	LF300	LF300	LF300
Analyte	Y	Nb	Sc	LOI	Sum
Unit	ppm	ppm	ppm	%	%
MDL	3	5	1	-5.1	0.01
1649215	Drill Core				
1649216	Drill Core				
1649217	Drill Core				
1649218	Rock Pulp				
1649219	Drill Core				
1649220	Drill Core				
1649221	Drill Core				
1649222	Drill Core				
1649223	Drill Core				
1649224	Drill Core				
1649225	Drill Core				
1649226	Drill Core				
1649227	Drill Core				
1649228	Drill Core				
1649229	Drill Core				
1649230	Drill Core				
1649231	Drill Core				
1649232	Drill Core				
1649233	Rock Pulp				
1649234	Drill Core				
1649235	Drill Core				
1649236	Drill Core				
1649237	Drill Core				
1649238	Rock				
1649239	Drill Core				
1649240	Drill Core				
1649241	Drill Core				
1649242	Drill Core				
1649243	Drill Core				
1649244	Drill Core				



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CERTIFICATE OF ANALYSIS

TIM18001822.1

Method	WGHT	FA430	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	
Unit	kg	ppm	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%	
MDL	0.01	0.005	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01	
1649245	Drill Core	1.78	0.118	<0.001	<0.001	<0.02	0.01	<2	0.002	<0.001	0.02	1.64	0.07	0.02	<0.001	<0.01	<0.01	0.95	0.03	0.003	0.45
1649246	Drill Core	2.12	0.066	<0.001	<0.001	<0.02	0.03	<2	0.003	<0.001	0.03	2.08	0.16	0.02	<0.001	<0.01	<0.01	1.73	0.03	0.003	0.87
1649247	Drill Core	1.99	0.061	<0.001	<0.001	<0.02	0.02	<2	0.004	0.001	0.03	1.61	0.21	0.03	<0.001	<0.01	<0.01	1.79	0.04	0.003	0.85
1649248	Drill Core	3.31	0.049	<0.001	<0.001	<0.02	<0.01	<2	0.003	<0.001	0.03	1.60	0.19	0.03	<0.001	<0.01	<0.01	1.83	0.04	0.002	0.80
1649249	Drill Core	2.45	0.017	<0.001	0.001	<0.02	0.01	<2	0.003	<0.001	0.03	1.90	<0.02	0.03	<0.001	<0.01	<0.01	1.98	0.03	0.002	0.70
1649250	Drill Core	2.62	0.017	<0.001	0.002	<0.02	0.01	<2	0.006	0.002	0.05	2.71	<0.02	0.04	<0.001	<0.01	<0.01	4.29	0.09	0.009	1.62
1649251	Rock Pulp	0.07	0.324																		
1649252	Drill Core	2.63	0.090	<0.001	0.003	<0.02	<0.01	<2	0.007	0.002	0.04	3.46	<0.02	0.03	<0.001	<0.01	<0.01	3.31	0.06	0.009	1.20
1649253	Drill Core	2.23	0.010	<0.001	0.002	<0.02	<0.01	<2	0.005	0.001	0.04	1.85	<0.02	0.03	<0.001	<0.01	<0.01	2.67	0.05	0.006	0.96
1649254	Drill Core	2.39	0.015	<0.001	<0.001	<0.02	<0.01	<2	0.003	<0.001	0.03	1.40	<0.02	0.03	<0.001	<0.01	<0.01	2.11	0.04	0.003	0.42
1649255	Drill Core	1.98	0.031	<0.001	<0.001	<0.02	<0.01	<2	0.003	<0.001	0.03	1.75	0.03	0.03	<0.001	<0.01	<0.01	2.98	0.04	0.002	0.40
1649256	Drill Core	1.92	0.021	<0.001	0.001	<0.02	<0.01	<2	0.004	<0.001	0.03	1.72	0.05	0.03	<0.001	<0.01	<0.01	2.52	0.04	0.002	0.52
1649257	Drill Core	2.29	0.031	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.02	1.19	0.10	0.04	<0.001	<0.01	<0.01	3.65	0.03	0.002	0.19
1649258	Drill Core	2.52	0.015	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.03	1.43	<0.02	0.04	<0.001	<0.01	<0.01	2.89	0.03	0.002	0.24



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CERTIFICATE OF ANALYSIS

TIM18001822.1

Method	MA370	MA370	MA370	MA370	MA370	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300
Analyte	Al	Na	K	W	S	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	
Unit	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	
MDL	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	
1649245	Drill Core	6.48	1.89	2.06	<0.01	0.68															
1649246	Drill Core	9.17	2.45	2.86	<0.01	0.98	62.30	18.02	2.97	1.58	2.51	3.22	3.48	0.45	0.07	0.04	0.007	767	32	212	91
1649247	Drill Core	9.96	1.81	3.63	<0.01	0.41															
1649248	Drill Core	9.50	1.77	3.31	<0.01	0.39															
1649249	Drill Core	10.05	2.57	3.13	<0.01	0.34															
1649250	Drill Core	8.45	1.02	3.19	<0.01	0.32															
1649251	Rock Pulp																				
1649252	Drill Core	8.43	1.07	3.14	<0.01	1.72															
1649253	Drill Core	9.33	0.70	3.70	<0.01	0.30															
1649254	Drill Core	8.77	0.69	3.86	<0.01	0.37	62.89	19.26	2.04	0.79	3.25	0.96	4.80	0.52	0.08	0.04	0.008	662	20	291	117
1649255	Drill Core	8.19	1.15	3.51	<0.01	0.48															
1649256	Drill Core	9.92	1.20	4.07	<0.01	0.44															
1649257	Drill Core	7.25	0.76	3.52	<0.01	0.35															
1649258	Drill Core	7.64	0.98	3.17	<0.01	0.28															



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CERTIFICATE OF ANALYSIS

TIM18001822.1

Method	LF300	LF300	LF300	LF300	LF300	
Analyte	Y	Nb	Sc	LOI	Sum	
Unit	ppm	ppm	ppm	%	%	
MDL	3	5	1	-5.1	0.01	
1649245	Drill Core					
1649246	Drill Core	8	7	6	5.2	99.93
1649247	Drill Core					
1649248	Drill Core					
1649249	Drill Core					
1649250	Drill Core					
1649251	Rock Pulp					
1649252	Drill Core					
1649253	Drill Core					
1649254	Drill Core	11	<5	7	5.2	99.98
1649255	Drill Core					
1649256	Drill Core					
1649257	Drill Core					
1649258	Drill Core					



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QUALITY CONTROL REPORT

TIM18001822.1

Method	WGHT	FA430	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	
Unit	kg	ppm	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%	
MDL	0.01	0.005	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01	
1649246	Drill Core	2.12	0.066	<0.001	<0.001	<0.02	0.03	<2	0.003	<0.001	0.03	2.08	0.16	0.02	<0.001	<0.01	<0.01	1.73	0.03	0.003	0.87
Pulp Duplicates																					
1649189	Drill Core	2.71	0.077	<0.001	0.003	<0.02	0.03	<2	0.006	0.003	0.04	13.87	<0.02	0.02	<0.001	<0.01	<0.01	2.23	0.05	0.003	1.07
REP 1649189	QC		0.076																		
1649192	Drill Core	2.44	0.017	<0.001	0.004	<0.02	<0.01	<2	0.006	0.002	0.04	3.64	<0.02	0.03	<0.001	<0.01	<0.01	2.49	0.05	0.004	1.19
REP 1649192	QC			<0.001	0.004	<0.02	<0.01	<2	0.006	0.002	0.04	3.62	<0.02	0.03	<0.001	<0.01	<0.01	2.47	0.05	0.004	1.18
1649201	Drill Core	2.31	0.016	<0.001	0.002	<0.02	<0.01	<2	0.001	<0.001	0.04	1.82	<0.02	0.02	<0.001	<0.01	<0.01	2.31	0.05	<0.001	1.08
REP 1649201	QC		0.017																		
1649225	Drill Core	2.02	0.526	<0.001	0.001	<0.02	<0.01	<2	0.004	0.001	0.08	4.39	0.32	0.02	<0.001	<0.01	<0.01	2.48	0.04	0.003	1.04
REP 1649225	QC			<0.001	0.001	<0.02	<0.01	<2	0.004	0.001	0.08	4.34	0.30	0.02	<0.001	<0.01	<0.01	2.50	0.04	0.004	1.05
REP 1649250	QC		0.008																		
1649258	Drill Core	2.52	0.015	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.03	1.43	<0.02	0.04	<0.001	<0.01	<0.01	2.89	0.03	0.002	0.24
REP 1649258	QC			<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.03	1.39	<0.02	0.03	<0.001	<0.01	<0.01	2.85	0.03	0.002	0.23
Core Reject Duplicates																					
1649216	Drill Core	2.25	0.879	<0.001	0.002	<0.02	0.02	3	0.003	0.001	0.02	6.05	0.35	<0.01	<0.001	<0.01	<0.01	0.75	0.04	0.002	0.89
DUP 1649216	QC		0.971	<0.001	0.002	<0.02	0.02	3	0.003	0.001	0.02	6.11	0.26	<0.01	<0.001	<0.01	<0.01	0.76	0.04	0.002	0.90
1649250	Drill Core	2.62	0.017	<0.001	0.002	<0.02	0.01	<2	0.006	0.002	0.05	2.71	<0.02	0.04	<0.001	<0.01	<0.01	4.29	0.09	0.009	1.62
DUP 1649250	QC		0.011	<0.001	0.002	<0.02	0.01	<2	0.006	0.002	0.05	2.65	<0.02	0.04	<0.001	<0.01	<0.01	4.20	0.09	0.008	1.58
Reference Materials																					
STD CDN-ME-14	Standard			0.002	1.253	0.51	3.16	44	0.002	0.018	0.09	18.30	<0.02	<0.01	0.009	<0.01	<0.01	0.78	0.02	<0.001	1.31
STD CDN-ME-9	Standard			<0.001	0.673	<0.02	0.01	3	0.981	0.017	0.12	14.04	<0.02	0.03	<0.001	<0.01	<0.01	4.30	0.06	0.029	4.10
STD CDN-ME-14	Standard			0.001	1.214	0.51	3.12	42	0.002	0.017	0.09	18.26	<0.02	<0.01	0.009	<0.01	0.01	0.75	0.02	0.001	1.26
STD CDN-ME-9	Standard			<0.001	0.668	<0.02	0.01	4	0.918	0.018	0.12	14.12	<0.02	0.03	<0.001	<0.01	<0.01	4.40	0.06	0.029	4.00
STD CDN-ME-14	Standard			0.001	1.223	0.52	3.16	43	0.002	0.017	0.09	18.21	<0.02	<0.01	0.009	<0.01	<0.01	0.74	0.02	<0.001	1.25
STD CDN-ME-9	Standard			<0.001	0.679	<0.02	0.01	4	1.008	0.020	0.12	14.36	<0.02	0.03	<0.001	<0.01	<0.01	4.34	0.07	0.029	3.98
STD OXC145	Standard		0.206																		
STD OXC145	Standard		0.215																		
STD OXC145	Standard		0.214																		
STD OXH139	Standard		1.277																		



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QUALITY CONTROL REPORT

TIM18001822.1

Method	Analyte	MA370	MA370	MA370	MA370	MA370	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300
		Al	Na	K	W	S	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr
Unit		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	
1649246	Drill Core	9.17	2.45	2.86	<0.01	0.98	62.30	18.02	2.97	1.58	2.51	3.22	3.48	0.45	0.07	0.04	0.007	767	32	212	91
Pulp Duplicates																					
1649189	Drill Core	5.91	1.56	1.74	<0.01	14.96															
REP 1649189	QC																				
1649192	Drill Core	7.26	2.31	2.04	<0.01	3.48															
REP 1649192	QC	7.23	2.30	2.01	<0.01	3.40															
1649201	Drill Core	7.30	1.51	2.49	<0.01	1.15															
REP 1649201	QC																				
1649225	Drill Core	5.77	1.10	2.18	<0.01	2.59															
REP 1649225	QC	5.80	1.10	2.21	<0.01	2.53															
REP 1649250	QC																				
1649258	Drill Core	7.64	0.98	3.17	<0.01	0.28															
REP 1649258	QC	7.18	0.97	3.16	<0.01	0.27															
Core Reject Duplicates																					
1649216	Drill Core	4.53	0.56	1.56	<0.01	4.51															
DUP 1649216	QC	4.59	0.57	1.58	<0.01	4.56															
1649250	Drill Core	8.45	1.02	3.19	<0.01	0.32															
DUP 1649250	QC	8.67	1.08	3.26	<0.01	0.31															
Reference Materials																					
STD CDN-ME-14	Standard	4.49	0.54	1.73	<0.01	16.05															
STD CDN-ME-9	Standard	6.71	1.85	0.65	<0.01	2.59															
STD CDN-ME-14	Standard	4.41	0.54	1.67	<0.01	15.66															
STD CDN-ME-9	Standard	6.76	1.88	0.61	<0.01	2.67															
STD CDN-ME-14	Standard	4.43	0.54	1.65	<0.01	15.87															
STD CDN-ME-9	Standard	6.69	1.85	0.62	<0.01	2.75															
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXH139	Standard																				



Bureau Veritas Commodities Canada Ltd.
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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: September 26, 2018

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QUALITY CONTROL REPORT

TIM18001822.1

Method	Analyte	LF300	LF300	LF300	LF300	LF300
		Y	Nb	Sc	LOI	Sum
Unit		ppm	ppm	ppm	%	%
MDL		3	5	1	-5.1	0.01
1649246	Drill Core	8	7	6	5.2	99.93
Pulp Duplicates						
1649189	Drill Core					
REP 1649189	QC					
1649192	Drill Core					
REP 1649192	QC					
1649201	Drill Core					
REP 1649201	QC					
1649225	Drill Core					
REP 1649225	QC					
REP 1649250	QC					
1649258	Drill Core					
REP 1649258	QC					
Core Reject Duplicates						
1649216	Drill Core					
DUP 1649216	QC					
1649250	Drill Core					
DUP 1649250	QC					
Reference Materials						
STD CDN-ME-14	Standard					
STD CDN-ME-9	Standard					
STD CDN-ME-14	Standard					
STD CDN-ME-9	Standard					
STD CDN-ME-14	Standard					
STD CDN-ME-9	Standard					
STD OXC145	Standard					
STD OXC145	Standard					
STD OXC145	Standard					
STD OXH139	Standard					



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QUALITY CONTROL REPORT

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		WGHT	FA430	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg
		kg	ppm	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.005	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01
STD OXH139	Standard		1.294																		
STD OXH139	Standard		1.265																		
STD OXN134	Standard		7.579																		
STD OXN134	Standard		7.735																		
STD OXN134	Standard		7.427																		
STD SO-19	Standard																				
STD SO-19	Standard																				
STD OXC145 Expected			0.212																		
STD OXN134 Expected			7.667																		
STD OXH139 Expected			1.312																		
STD SO-19 Expected																					
STD CDN-ME-14 Expected				1.221	0.495	3.17	43.5	0.002	0.0172	0.0883	18.04	0.0088		0.0088		0.0094	0.747	0.0147	0.0014	1.28	
STD CDN-ME-9 Expected				0.654		0.012		0.912	0.0169	0.121	13.84		0.03			4.21	0.06	0.0284	4.05		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		0.005																		
BLK	Blank		<0.005																		
BLK	Blank			<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.02	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01
BLK	Blank																				
BLK	Blank			<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.02	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01
BLK	Blank			<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.02	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01
Prep Wash																					
ROCK-TIM	Prep Blank		<0.005	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	0.07	2.25	<0.02	0.02	<0.001	<0.01	<0.01	1.53	0.04	<0.001	0.54
ROCK-TIM	Prep Blank		<0.005	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	0.07	2.18	<0.02	0.02	<0.001	<0.01	<0.01	1.53	0.04	<0.001	0.53



QUALITY CONTROL REPORT

TIM18001822.1

		MA370	MA370	MA370	MA370	MA370	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300		
		Al	Na	K	W	S	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	
		%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	
		0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	
STD OXH139	Standard																					
STD OXH139	Standard																					
STD OXN134	Standard																					
STD OXN134	Standard																					
STD OXN134	Standard																					
STD SO-19	Standard						59.95	14.24	7.48	2.97	6.05	4.09	1.32	0.71	0.32	0.13	0.501	459	460	318	120	
STD SO-19	Standard						60.15	14.24	7.38	2.94	5.98	4.09	1.31	0.71	0.33	0.13	0.495	458	458	315	120	
STD OXC145 Expected																						
STD OXN134 Expected																						
STD OXH139 Expected																						
STD SO-19 Expected							61.13	13.95	7.47	2.88	6	4.11	1.29	0.69	0.32	0.13	0.5	486	470	317.1	112	
STD CDN-ME-14 Expected		4.47	0.53	1.7		16.14																
STD CDN-ME-9 Expected		6.74	1.86	0.616		2.58																
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.05																
BLK	Blank						<0.01	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	
BLK	Blank	0.01	<0.01	<0.01	<0.01	<0.05																
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.05																
Prep Wash																						
ROCK-TIM	Prep Blank	7.26	3.53	1.73	<0.01	0.08																
ROCK-TIM	Prep Blank	7.24	3.53	1.73	<0.01	0.06																



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Project: Mikwam (MK)
Report Date: September 26, 2018

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QUALITY CONTROL REPORT

TIM18001822.1

		LF300	LF300	LF300	LF300	LF300
		Y	Nb	Sc	LOI	Sum
		ppm	ppm	ppm	%	%
		3	5	1	-5.1	0.01
STD OXH139	Standard					
STD OXH139	Standard					
STD OXN134	Standard					
STD OXN134	Standard					
STD OXN134	Standard					
STD SO-19	Standard	34	75	26	1.9	99.88
STD SO-19	Standard	34	71	26	1.9	99.87
STD OXC145 Expected						
STD OXN134 Expected						
STD OXH139 Expected						
STD SO-19 Expected		35.5	68.5	27		
STD CDN-ME-14 Expected						
STD CDN-ME-9 Expected						
BLK	Blank					
BLK	Blank					
BLK	Blank					
BLK	Blank					
BLK	Blank					
BLK	Blank					
BLK	Blank					
BLK	Blank	<3	<5	<1	0.0	<0.01
BLK	Blank					
BLK	Blank					
Prep Wash						
ROCK-TIM	Prep Blank					
ROCK-TIM	Prep Blank					



BUREAU VERITAS MINERAL LABORATORIES
Canada

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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: September 11, 2018
Report Date: October 25, 2018
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CERTIFICATE OF ANALYSIS

TIM18001852.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID: Fall 2018 Batch#005
P.O. Number
Number of Samples: 90

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
PRP70-500	85	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	5	Sort, label and box pulps			TIM
FA430	90	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	90	Environmental disposal charge-Fire assay lead waste			TIM
LF300	2	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed	VAN
MA370	90	4-Acid Digestion ICP-ES Finish	0.5	Completed	VAN
AQ200	9	1:1:1 Aqua Regia digestion ICP-MS analysis	0.5	Completed	VAN
SHP01	90	Per sample shipping charges for branch shipments			TIM
FA530	6	Lead collection fire assay 30G fusion - Grav finish	30	Completed	TIM

ADDITIONAL COMMENTS

Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi



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 Commodities Canada Ltd.

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Project: Mikwam (MK)
Report Date: October 25, 2018

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CERTIFICATE OF ANALYSIS

TIM18001852.1

Method	WGHT	FA430	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	
Analyte	Wgt	Au	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	
Unit	kg	ppm	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	
1649269	Drill Core	1.76	0.048																		
1649270	Rock	0.12	0.008																		
1649271	Drill Core	2.38	0.013																		
1649272	Drill Core	1.18	0.007																		
1649273	Drill Core	3.18	<0.005																		
1649274	Rock Pulp	0.07	0.334																		
1649275	Drill Core	2.11	<0.005																		
1649276	Drill Core	1.77	<0.005																		
1649277	Drill Core	2.53	<0.005																		
1649278	Drill Core	1.52	0.013																		
1649279	Drill Core	2.69	0.033																		
1649280	Drill Core	2.14	0.736																		
1649281	Drill Core	1.48	0.032																		
1649282	Drill Core	2.96	0.087																		
1649283	Drill Core	2.77	0.078																		
1649284	Drill Core	1.64	0.078																		
1649285	Drill Core	2.33	0.099																		
1649286	Drill Core	2.13	0.325																		
1649287	Drill Core	1.91	0.396																		
1649288	Drill Core	2.65	5.040																		
1649289	Drill Core	2.56	4.893																		
1649290	Drill Core	2.45	5.220																		
1649291	Drill Core	2.42	8.503																		
1649292	Rock	0.15	<0.005																		
1649293	Drill Core	2.76	6.155																		
1649294	Drill Core	1.70	7.184																		
1649295	Rock Pulp	0.06	6.503																		
1649296	Drill Core	3.22	7.174																		
1649297	Drill Core	2.59	1.739																		
1649298	Drill Core	2.79	4.893																		



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Project: Mikwam (MK)
Report Date: October 25, 2018

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CERTIFICATE OF ANALYSIS

TIM18001852.1

Method	LF300	LF300	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370
Analyte	LOI	Sum	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg
Unit	%	%	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL	-5.1	0.01	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01
1649269	Drill Core		<0.001	0.002	<0.02	0.02	<2	0.002	0.001	0.05	2.54	<0.02	0.03	<0.001	<0.01	<0.01	2.15	0.04	0.003	0.89
1649270	Rock		<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	0.01	1.44	<0.02	<0.01	<0.001	<0.01	<0.01	0.10	<0.01	<0.001	0.03
1649271	Drill Core		<0.001	0.002	<0.02	0.01	<2	0.002	<0.001	0.04	2.32	<0.02	0.02	<0.001	<0.01	<0.01	1.92	0.04	0.002	0.83
1649272	Drill Core		<0.001	0.002	<0.02	0.02	<2	0.001	<0.001	0.06	1.91	<0.02	0.03	<0.001	<0.01	<0.01	2.74	0.04	0.002	1.15
1649273	Drill Core		<0.001	0.002	<0.02	0.02	<2	0.001	<0.001	0.05	1.83	<0.02	0.02	<0.001	<0.01	<0.01	2.37	0.03	0.001	1.06
1649274	Rock Pulp		<0.001	0.010	<0.02	<0.01	<2	0.012	0.005	0.14	8.56	<0.02	0.03	<0.001	<0.01	<0.01	7.02	0.09	0.016	4.31
1649275	Drill Core		<0.001	0.001	<0.02	0.02	<2	0.001	<0.001	0.04	1.82	<0.02	0.02	<0.001	<0.01	<0.01	2.07	0.03	0.002	0.94
1649276	Drill Core		<0.001	0.001	<0.02	0.03	<2	0.001	<0.001	0.05	1.87	<0.02	0.02	<0.001	<0.01	<0.01	2.13	0.03	0.001	0.94
1649277	Drill Core		<0.001	0.001	<0.02	0.05	<2	0.002	<0.001	0.07	2.10	<0.02	0.02	<0.001	<0.01	<0.01	2.95	0.03	0.002	1.21
1649278	Drill Core		<0.001	<0.001	<0.02	0.03	<2	0.001	<0.001	0.06	1.87	<0.02	0.02	<0.001	<0.01	<0.01	2.56	0.03	0.002	1.16
1649279	Drill Core		<0.001	0.002	<0.02	0.03	<2	0.003	<0.001	0.07	2.96	<0.02	0.02	<0.001	<0.01	<0.01	3.00	0.04	0.005	1.39
1649280	Drill Core		<0.001	0.004	<0.02	<0.01	<2	0.007	0.003	0.06	9.39	0.04	0.02	<0.001	<0.01	<0.01	3.33	0.04	0.005	1.85
1649281	Drill Core		<0.001	0.002	<0.02	<0.01	<2	0.004	0.002	0.05	3.63	<0.02	0.03	<0.001	<0.01	<0.01	2.52	0.05	0.004	1.26
1649282	Drill Core		<0.001	0.003	<0.02	<0.01	<2	0.017	0.003	0.08	5.06	0.04	0.02	<0.001	<0.01	<0.01	3.91	0.05	0.017	1.90
1649283	Drill Core		<0.001	0.003	<0.02	<0.01	<2	0.013	0.002	0.07	3.62	0.03	0.02	<0.001	<0.01	<0.01	3.50	0.03	0.019	1.65
1649284	Drill Core		<0.001	0.001	<0.02	<0.01	<2	0.001	<0.001	0.03	1.87	<0.02	0.02	<0.001	<0.01	<0.01	1.29	0.03	0.002	0.62
1649285	Drill Core		<0.001	0.002	<0.02	<0.01	<2	0.003	0.001	0.03	2.71	<0.02	0.02	<0.001	<0.01	<0.01	1.08	0.04	0.003	0.53
1649286	Drill Core		<0.001	0.001	<0.02	<0.01	<2	0.001	<0.001	0.02	2.43	0.07	<0.01	<0.001	<0.01	<0.01	1.06	0.02	0.002	0.49
1649287	Drill Core		<0.001	0.002	<0.02	<0.01	<2	0.003	0.001	0.02	4.86	0.17	0.01	<0.001	<0.01	<0.01	0.92	0.03	0.002	0.46
1649288	Drill Core		<0.001	0.007	<0.02	<0.01	3	0.001	<0.001	0.03	19.18	0.80	<0.01	<0.001	<0.01	<0.01	0.95	0.07	0.002	0.57
1649289	Drill Core		<0.001	0.004	<0.02	<0.01	4	0.001	<0.001	<0.01	19.01	0.87	<0.01	<0.001	<0.01	<0.01	0.34	0.06	0.001	0.22
1649290	Drill Core		<0.001	0.011	<0.02	0.01	3	0.003	0.001	0.01	14.58	0.61	<0.01	<0.001	<0.01	<0.01	0.26	0.03	0.002	0.40
1649291	Drill Core		<0.001	0.009	<0.02	<0.01	2	0.002	<0.001	0.02	12.02	0.43	<0.01	<0.001	<0.01	<0.01	0.27	0.04	0.002	0.30
1649292	Rock		<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	1.01	<0.02	<0.01	<0.001	<0.01	<0.01	0.01	<0.01	<0.001	0.01
1649293	Drill Core		<0.001	0.007	<0.02	<0.01	5	0.003	0.001	0.01	18.86	0.76	<0.01	<0.001	<0.01	<0.01	0.10	0.04	0.003	0.56
1649294	Drill Core		<0.001	0.005	<0.02	<0.01	4	0.003	0.001	0.02	21.41	0.79	<0.01	<0.001	<0.01	<0.01	0.15	0.07	0.003	0.45
1649295	Rock Pulp		<0.001	0.012	<0.02	<0.01	<2	0.017	0.004	0.09	5.68	<0.02	<0.01	<0.001	<0.01	<0.01	4.90	0.03	0.039	4.40
1649296	Drill Core		<0.001	0.009	<0.02	<0.01	4	0.005	0.003	0.01	19.28	0.71	<0.01	<0.001	<0.01	<0.01	0.07	0.03	0.004	0.77
1649297	Drill Core		<0.001	0.009	<0.02	0.01	<2	0.005	0.002	0.02	16.40	0.81	<0.01	<0.001	<0.01	<0.01	0.11	0.03	0.003	0.94
1649298	Drill Core		<0.001	0.009	<0.02	0.02	<2	0.007	0.003	0.01	14.02	0.44	<0.01	<0.001	<0.01	<0.01	0.03	<0.01	0.004	0.94



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Project: Mikwam (MK)
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CERTIFICATE OF ANALYSIS

TIM18001852.1

Method	Analyte	MA370	MA370	MA370	MA370	MA370	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
		Al	Na	K	W	S	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	
Unit		%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	
MDL		0.01	0.01	0.01	0.01	0.05	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1
1649269	Drill Core	7.02	3.16	1.49	<0.01	1.26																
1649270	Rock	0.27	0.06	0.08	<0.01	<0.05																
1649271	Drill Core	6.59	2.07	1.92	<0.01	1.18																
1649272	Drill Core	7.75	2.35	2.36	<0.01	0.33																
1649273	Drill Core	7.47	1.30	2.71	<0.01	0.37																
1649274	Rock Pulp	7.37	2.33	0.44	<0.01	0.09																
1649275	Drill Core	6.80	1.03	2.57	<0.01	0.61																
1649276	Drill Core	7.48	1.49	2.59	<0.01	0.53																
1649277	Drill Core	6.43	1.91	1.90	<0.01	0.58																
1649278	Drill Core	7.00	1.10	2.63	<0.01	0.57																
1649279	Drill Core	6.64	1.49	2.15	<0.01	1.63																
1649280	Drill Core	6.04	0.37	2.24	<0.01	7.45																
1649281	Drill Core	7.70	1.44	2.69	<0.01	2.89																
1649282	Drill Core	6.47	0.63	2.56	<0.01	4.19																
1649283	Drill Core	6.11	2.16	1.64	<0.01	2.76																
1649284	Drill Core	5.31	2.12	1.32	<0.01	1.42																
1649285	Drill Core	5.71	1.04	2.05	<0.01	2.09																
1649286	Drill Core	1.64	0.26	0.59	<0.01	1.95																
1649287	Drill Core	3.84	0.24	1.60	<0.01	4.40																
1649288	Drill Core	1.49	0.05	0.55	<0.01	18.37																
1649289	Drill Core	1.27	0.04	0.52	<0.01	18.34																
1649290	Drill Core	3.09	0.06	1.23	<0.01	13.12																
1649291	Drill Core	1.72	0.05	0.62	<0.01	10.75																
1649292	Rock	0.19	0.04	0.05	<0.01	<0.05																
1649293	Drill Core	4.79	0.09	1.89	<0.01	16.42																
1649294	Drill Core	3.99	0.18	1.50	<0.01	19.69																
1649295	Rock Pulp	5.73	1.47	0.66	<0.01	0.78																
1649296	Drill Core	6.80	0.70	2.28	<0.01	16.17																
1649297	Drill Core	7.02	0.42	2.42	<0.01	10.63																
1649298	Drill Core	9.51	0.18	3.92	<0.01	9.93																

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.



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Report Date: October 25, 2018

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CERTIFICATE OF ANALYSIS

TIM18001852.1

Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	
Unit	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	
MDL	0.1	1	0.01	0.001	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	
1649269	Drill Core																				
1649270	Rock																				
1649271	Drill Core																				
1649272	Drill Core																				
1649273	Drill Core																				
1649274	Rock Pulp																				
1649275	Drill Core																				
1649276	Drill Core																				
1649277	Drill Core																				
1649278	Drill Core																				
1649279	Drill Core																				
1649280	Drill Core																				
1649281	Drill Core																				
1649282	Drill Core																				
1649283	Drill Core																				
1649284	Drill Core																				
1649285	Drill Core																				
1649286	Drill Core																				
1649287	Drill Core																				
1649288	Drill Core																				
1649289	Drill Core																				
1649290	Drill Core																				
1649291	Drill Core																				
1649292	Rock																				
1649293	Drill Core																				
1649294	Drill Core																				
1649295	Rock Pulp																				
1649296	Drill Core																				
1649297	Drill Core																				
1649298	Drill Core																				



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CERTIFICATE OF ANALYSIS

TIM18001852.1

Method	Analyte	AQ200	FA530
		Te	Au
Unit		ppm	gm/t
MDL		0.2	0.9
1649269	Drill Core		
1649270	Rock		
1649271	Drill Core		
1649272	Drill Core		
1649273	Drill Core		
1649274	Rock Pulp		
1649275	Drill Core		
1649276	Drill Core		
1649277	Drill Core		
1649278	Drill Core		
1649279	Drill Core		
1649280	Drill Core		
1649281	Drill Core		
1649282	Drill Core		
1649283	Drill Core		
1649284	Drill Core		
1649285	Drill Core		
1649286	Drill Core		
1649287	Drill Core		
1649288	Drill Core		
1649289	Drill Core		
1649290	Drill Core		
1649291	Drill Core		
1649292	Rock		
1649293	Drill Core		
1649294	Drill Core		
1649295	Rock Pulp		
1649296	Drill Core		
1649297	Drill Core		
1649298	Drill Core		



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CERTIFICATE OF ANALYSIS

TIM18001852.1

Method	WGHT	FA430	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300
Analyte	Wgt	Au	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	
Unit	kg	ppm	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	
1649299	Drill Core	2.50	4.400																		
1649300	Drill Core	2.29	9.492																		
1649301	Drill Core	2.31	8.233																		
1649302	Drill Core	2.36	6.968																		
1649303	Drill Core	3.20	>10																		
1649304	Drill Core	2.49	>10																		
1649305	Drill Core	2.68	1.231																		
1649306	Drill Core	2.23	1.080																		
1649307	Drill Core	2.70	>10																		
1649308	Drill Core	3.06	>10																		
1649309	Rock Pulp	0.06	0.325																		
1649310	Drill Core	2.39	8.385																		
1649311	Drill Core	2.47	6.561																		
1649312	Drill Core	2.52	7.469																		
1649313	Drill Core	2.13	9.638																		
1649314	Drill Core	2.61	>10																		
1649315	Rock	0.17	0.014																		
1649316	Drill Core	2.46	0.196																		
1649317	Drill Core	1.87	0.060																		
1649318	Drill Core	1.85	0.037																		
1649319	Drill Core	2.72	0.052																		
1649320	Drill Core	2.24	0.040																		
1649321	Drill Core	1.94	0.020																		
1649322	Drill Core	2.11	0.069																		
1649323	Rock Pulp	0.07	6.448																		
1649324	Drill Core	2.77	0.140																		
1649325	Drill Core	2.59	0.030																		
1649326	Drill Core	2.42	0.026																		
1649327	Drill Core	2.12	0.029																		
1649328	Drill Core	1.88	0.013																		



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CERTIFICATE OF ANALYSIS

TIM18001852.1

Method	LF300	LF300	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	
Analyte	LOI	Sum	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg
Unit	%	%	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL	-5.1	0.01	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01
1649299	Drill Core		<0.001	0.004	<0.02	<0.01	2	0.002	<0.001	0.03	13.10	0.83	<0.01	<0.001	<0.01	<0.01	0.84	0.05	0.002	0.64
1649300	Drill Core		<0.001	0.008	<0.02	<0.01	6	0.003	0.001	0.04	24.65	1.18	<0.01	<0.001	<0.01	<0.01	0.83	0.12	0.002	0.85
1649301	Drill Core		<0.001	0.008	<0.02	<0.01	3	0.003	<0.001	0.05	19.51	0.94	<0.01	<0.001	<0.01	<0.01	0.40	0.08	0.002	0.70
1649302	Drill Core		<0.001	0.010	<0.02	<0.01	3	0.003	0.001	0.02	19.25	1.03	<0.01	<0.001	<0.01	<0.01	0.19	0.05	0.003	0.78
1649303	Drill Core		<0.001	0.007	<0.02	<0.01	8	0.001	<0.001	0.02	26.64	1.75	<0.01	<0.001	<0.01	<0.01	0.38	0.07	0.001	0.35
1649304	Drill Core		<0.001	0.003	<0.02	<0.01	3	0.001	<0.001	0.02	15.59	0.69	<0.01	<0.001	<0.01	<0.01	0.48	0.05	0.001	0.43
1649305	Drill Core		<0.001	0.006	<0.02	<0.01	<2	0.004	0.002	0.05	11.35	1.04	0.01	<0.001	<0.01	<0.01	1.41	0.05	0.004	1.15
1649306	Drill Core		<0.001	0.003	<0.02	<0.01	<2	0.002	0.001	0.04	7.45	0.71	0.01	<0.001	<0.01	<0.01	1.32	0.04	0.003	0.87
1649307	Drill Core		<0.001	0.009	<0.02	<0.01	5	0.002	0.001	0.03	23.27	1.08	<0.01	<0.001	<0.01	<0.01	1.16	0.09	0.001	0.79
1649308	Drill Core		<0.001	0.005	<0.02	<0.01	<2	0.003	0.001	0.04	15.18	0.83	0.02	<0.001	<0.01	<0.01	1.82	0.07	0.002	1.10
1649309	Rock Pulp		<0.001	0.011	<0.02	<0.01	<2	0.013	0.005	0.14	8.22	<0.02	0.03	<0.001	<0.01	<0.01	6.63	0.09	0.016	4.19
1649310	Drill Core		<0.001	0.007	<0.02	<0.01	5	0.002	<0.001	0.03	15.48	0.62	<0.01	<0.001	<0.01	<0.01	1.42	0.05	0.002	0.76
1649311	Drill Core		<0.001	0.010	<0.02	<0.01	3	0.003	0.001	0.02	19.90	0.73	<0.01	<0.001	<0.01	<0.01	0.95	0.06	0.003	0.98
1649312	Drill Core		<0.001	0.007	<0.02	<0.01	3	0.004	0.002	0.03	17.60	0.81	0.01	<0.001	<0.01	<0.01	0.90	0.06	0.003	0.92
1649313	Drill Core		<0.001	0.011	<0.02	<0.01	4	0.002	<0.001	0.03	15.78	0.41	0.02	<0.001	<0.01	<0.01	1.41	0.06	0.002	0.69
1649314	Drill Core		<0.001	0.009	<0.02	<0.01	4	0.001	<0.001	0.02	15.46	0.49	<0.01	<0.001	<0.01	<0.01	0.74	0.04	0.001	0.33
1649315	Rock		<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	1.09	<0.02	<0.01	<0.001	<0.01	<0.01	0.01	<0.01	<0.001	0.01
1649316	Drill Core		<0.001	<0.001	<0.02	<0.01	<2	0.004	0.001	0.05	2.78	<0.02	0.03	<0.001	<0.01	<0.01	2.62	0.03	0.009	0.92
1649317	Drill Core		<0.001	0.002	<0.02	<0.01	<2	0.006	0.002	0.07	3.56	0.03	0.05	<0.001	<0.01	<0.01	3.51	0.05	0.011	1.53
1649318	Drill Core		<0.001	0.001	<0.02	<0.01	<2	0.005	0.001	0.07	3.23	0.03	0.05	<0.001	<0.01	<0.01	3.36	0.05	0.009	1.41
1649319	Drill Core		<0.001	0.001	<0.02	<0.01	<2	0.005	0.001	0.07	3.06	0.03	0.05	<0.001	<0.01	<0.01	3.23	0.04	0.008	1.24
1649320	Drill Core		<0.001	0.001	<0.02	<0.01	<2	0.005	0.001	0.07	3.06	<0.02	0.05	<0.001	<0.01	<0.01	3.42	0.04	0.009	1.34
1649321	Drill Core		<0.001	0.002	<0.02	<0.01	<2	0.006	0.002	0.07	3.73	0.03	0.05	<0.001	<0.01	<0.01	2.92	0.06	0.011	1.71
1649322	Drill Core		<0.001	<0.001	<0.02	<0.01	<2	0.005	0.002	0.05	3.19	0.03	0.04	<0.001	<0.01	<0.01	2.53	0.05	0.010	1.10
1649323	Rock Pulp		<0.001	0.012	<0.02	<0.01	<2	0.018	0.004	0.09	5.45	<0.02	<0.01	<0.001	<0.01	<0.01	4.76	0.03	0.038	4.31
1649324	Drill Core		<0.001	<0.001	<0.02	<0.01	<2	0.004	0.001	0.04	2.69	0.03	0.03	<0.001	<0.01	<0.01	1.93	0.04	0.008	0.81
1649325	Drill Core		<0.001	0.002	<0.02	<0.01	<2	0.009	0.002	0.05	4.56	0.06	0.05	<0.001	<0.01	<0.01	1.92	0.08	0.015	1.52
1649326	Drill Core		<0.001	0.002	<0.02	<0.01	<2	0.008	0.002	0.07	4.59	0.06	0.05	<0.001	<0.01	<0.01	2.38	0.09	0.016	1.79
1649327	Drill Core		<0.001	0.005	<0.02	<0.01	<2	0.010	0.003	0.07	4.84	<0.02	0.05	<0.001	<0.01	<0.01	2.50	0.08	0.015	1.89
1649328	Drill Core		<0.001	0.003	<0.02	<0.01	<2	0.007	0.002	0.07	3.89	<0.02	0.05	<0.001	<0.01	<0.01	2.84	0.07	0.014	1.36



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Method	Analyte	MA370	MA370	MA370	MA370	MA370	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Al	Na	K	W	S	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	
Unit		%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.01	0.01	0.01	0.01	0.05	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1
1649299	Drill Core	3.61	0.27	1.29	<0.01	9.22																
1649300	Drill Core	3.45	0.09	1.05	<0.01	18.32																
1649301	Drill Core	2.96	0.09	0.89	<0.01	13.74																
1649302	Drill Core	4.71	0.08	1.67	<0.01	13.89																
1649303	Drill Core	1.07	0.05	0.29	<0.01	23.45																
1649304	Drill Core	1.86	0.15	0.58	<0.01	14.31																
1649305	Drill Core	5.23	0.81	1.47	<0.01	4.96																
1649306	Drill Core	3.29	0.91	0.61	<0.01	2.72																
1649307	Drill Core	2.43	0.25	0.45	<0.01	18.66																
1649308	Drill Core	3.79	0.81	0.86	<0.01	9.80																
1649309	Rock Pulp	7.17	2.28	0.43	<0.01	0.09																
1649310	Drill Core	2.21	0.31	0.57	<0.01	12.98																
1649311	Drill Core	3.96	0.21	1.07	<0.01	15.94																
1649312	Drill Core	4.37	0.87	1.10	<0.01	13.76																
1649313	Drill Core	3.25	0.47	1.14	<0.01	14.86																
1649314	Drill Core	1.09	0.17	0.34	<0.01	14.72																
1649315	Rock	0.20	0.06	0.05	<0.01	<0.05																
1649316	Drill Core	3.97	1.86	0.83	<0.01	0.80																
1649317	Drill Core	6.08	2.95	1.13	<0.01	0.78																
1649318	Drill Core	5.18	2.33	1.10	<0.01	0.70																
1649319	Drill Core	5.00	2.38	1.03	<0.01	0.72																
1649320	Drill Core	4.60	2.18	0.95	<0.01	0.53																
1649321	Drill Core	5.97	2.54	1.07	<0.01	0.47																
1649322	Drill Core	4.94	1.84	1.22	<0.01	0.75																
1649323	Rock Pulp	5.60	1.45	0.65	<0.01	0.76																
1649324	Drill Core	3.66	1.11	1.10	<0.01	0.67																
1649325	Drill Core	6.83	2.77	1.10	<0.01	0.77																
1649326	Drill Core	7.11	2.87	1.18	<0.01	0.39																
1649327	Drill Core	7.53	2.65	1.52	<0.01	0.41																
1649328	Drill Core	6.15	2.86	1.16	<0.01	0.67																

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Project: Mikwam (MK)
Report Date: October 25, 2018

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CERTIFICATE OF ANALYSIS

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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	
Unit	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	
MDL	0.1	1	0.01	0.001	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	
1649299	Drill Core																				
1649300	Drill Core																				
1649301	Drill Core																				
1649302	Drill Core																				
1649303	Drill Core																				
1649304	Drill Core																				
1649305	Drill Core																				
1649306	Drill Core																				
1649307	Drill Core																				
1649308	Drill Core																				
1649309	Rock Pulp																				
1649310	Drill Core																				
1649311	Drill Core																				
1649312	Drill Core																				
1649313	Drill Core																				
1649314	Drill Core																				
1649315	Rock																				
1649316	Drill Core																				
1649317	Drill Core																				
1649318	Drill Core																				
1649319	Drill Core																				
1649320	Drill Core																				
1649321	Drill Core																				
1649322	Drill Core																				
1649323	Rock Pulp																				
1649324	Drill Core																				
1649325	Drill Core																				
1649326	Drill Core																				
1649327	Drill Core																				
1649328	Drill Core																				



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Method	Analyte	AQ200	FA530
		Te	Au
Unit		ppm	gm/t
MDL		0.2	0.9
1649299	Drill Core		
1649300	Drill Core		
1649301	Drill Core		
1649302	Drill Core		
1649303	Drill Core		24.3
1649304	Drill Core		10.1
1649305	Drill Core		
1649306	Drill Core		
1649307	Drill Core		11.6
1649308	Drill Core		9.6
1649309	Rock Pulp		
1649310	Drill Core		
1649311	Drill Core		
1649312	Drill Core		
1649313	Drill Core		
1649314	Drill Core		11.8
1649315	Rock		
1649316	Drill Core		
1649317	Drill Core		
1649318	Drill Core		
1649319	Drill Core		
1649320	Drill Core		
1649321	Drill Core		
1649322	Drill Core		
1649323	Rock Pulp		
1649324	Drill Core		
1649325	Drill Core		
1649326	Drill Core		
1649327	Drill Core		
1649328	Drill Core		



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CERTIFICATE OF ANALYSIS

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Method	WGHT	FA430	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300
Analyte	Wgt	Au	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	
Unit	kg	ppm	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	
1649329	Drill Core	2.79	0.017																		
1649330	Drill Core	2.15	0.021																		
1649331	Drill Core	2.12	0.013																		
1649332	Drill Core	2.37	0.016																		
1649333	Drill Core	2.05	0.017																		
1649334	Drill Core	2.13	0.027																		
1649335	Drill Core	2.50	0.012																		
1649336	Drill Core	2.06	0.039																		
1649337	Drill Core	1.85	0.024																		
1649338	Drill Core	2.44	0.090																		
1649339	Drill Core	1.31	0.086																		
1649340	Rock	0.16	<0.005																		
1649341	Drill Core	1.80	0.062																		
1649342	Drill Core	2.15	>10																		
1649343	Rock Pulp	0.06	0.313																		
1649344	Drill Core	2.25	0.105																		
1649345	Drill Core	1.75	0.092																		
1649346	Drill Core	2.53	0.075	57.13	13.99	6.53	2.49	5.08	2.56	2.87	0.52	0.18	0.11	0.027	789	71	458	136	13	8	12
1649347	Drill Core	2.33	0.214																		
1649348	Drill Core	2.07	0.257																		
1649349	Drill Core	2.96	1.159																		
1649350	Drill Core	1.86	0.333																		
1649351	Drill Core	2.13	0.145																		
1649352	Drill Core	2.20	0.077																		
1649353	Drill Core	2.04	0.040																		
1649354	Rock	0.20	<0.005																		
1649355	Drill Core	2.32	0.018																		
1649356	Drill Core	2.18	0.167																		
1649357	Drill Core	2.18	0.023	58.09	16.66	4.23	1.75	5.04	3.30	3.02	0.58	0.04	0.07	0.007	443	45	385	78	13	<5	4
1649358	Drill Core	2.78	<0.005																		

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CERTIFICATE OF ANALYSIS

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Method	Analyte	LF300	LF300	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	
		LOI	Sum	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg
Unit		%	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%	
MDL		-5.1	0.01	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	
1649329	Drill Core			<0.001	0.001	<0.02	<0.01	<2	0.007	0.002	0.06	3.86	0.05	0.05	<0.001	<0.01	<0.01	2.15	0.07	0.012	1.33
1649330	Drill Core			<0.001	0.001	<0.02	<0.01	<2	0.008	0.002	0.05	3.41	<0.02	0.05	<0.001	<0.01	<0.01	1.74	0.06	0.015	1.14
1649331	Drill Core			<0.001	<0.001	<0.02	<0.01	<2	0.005	0.001	0.05	3.19	<0.02	0.04	<0.001	<0.01	<0.01	1.88	0.05	0.008	1.11
1649332	Drill Core			<0.001	0.002	<0.02	<0.01	<2	0.008	0.002	0.06	4.71	0.06	0.05	<0.001	<0.01	<0.01	2.39	0.11	0.018	1.79
1649333	Drill Core			<0.001	0.002	<0.02	<0.01	<2	0.009	0.002	0.08	4.31	<0.02	0.06	<0.001	<0.01	<0.01	2.83	0.08	0.016	1.65
1649334	Drill Core			<0.001	0.001	<0.02	<0.01	<2	0.007	0.002	0.07	3.90	0.02	0.05	<0.001	<0.01	<0.01	2.57	0.09	0.013	1.32
1649335	Drill Core			<0.001	0.002	<0.02	<0.01	<2	0.006	0.002	0.06	3.85	<0.02	0.06	<0.001	<0.01	<0.01	2.43	0.08	0.013	1.32
1649336	Drill Core			<0.001	0.002	<0.02	<0.01	<2	0.008	0.002	0.07	4.66	0.04	0.05	<0.001	<0.01	<0.01	2.74	0.09	0.018	1.48
1649337	Drill Core			<0.001	0.001	<0.02	<0.01	<2	0.007	0.002	0.07	3.88	<0.02	0.05	<0.001	<0.01	<0.01	2.74	0.06	0.010	1.36
1649338	Drill Core			<0.001	<0.001	<0.02	<0.01	<2	0.006	0.002	0.08	4.24	0.04	0.05	<0.001	<0.01	<0.01	2.85	0.07	0.011	1.27
1649339	Drill Core			<0.001	<0.001	<0.02	<0.01	<2	0.007	0.002	0.05	3.31	0.09	0.04	<0.001	<0.01	<0.01	2.15	0.05	0.010	0.83
1649340	Rock			<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.74	<0.02	<0.01	<0.001	<0.01	<0.01	0.03	<0.01	<0.001	0.01
1649341	Drill Core			<0.001	<0.001	0.06	<0.01	<2	0.001	<0.001	0.02	1.44	<0.02	0.02	<0.001	<0.01	<0.01	0.81	0.02	0.003	0.29
1649342	Drill Core			<0.001	<0.001	0.05	<0.01	<2	0.003	<0.001	0.02	1.95	0.04	0.02	<0.001	<0.01	<0.01	0.74	0.02	0.005	0.44
1649343	Rock Pulp			<0.001	0.010	<0.02	<0.01	<2	0.012	0.005	0.14	8.60	<0.02	0.03	<0.001	<0.01	<0.01	6.96	0.09	0.017	4.32
1649344	Drill Core			<0.001	0.001	<0.02	<0.01	<2	0.005	0.001	0.04	3.37	0.09	0.03	<0.001	<0.01	<0.01	1.42	0.04	0.009	0.89
1649345	Drill Core			<0.001	0.003	<0.02	<0.01	<2	0.008	0.002	0.09	4.86	0.16	0.04	<0.001	<0.01	<0.01	3.27	0.06	0.013	1.56
1649346	Drill Core	8.3	99.94	<0.001	0.003	<0.02	<0.01	<2	0.007	0.002	0.08	4.68	0.09	0.05	<0.001	<0.01	<0.01	3.67	0.09	0.012	1.39
1649347	Drill Core			<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.03	1.98	0.14	0.02	<0.001	<0.01	<0.01	1.00	0.04	0.003	0.39
1649348	Drill Core			<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.02	1.76	0.33	0.02	<0.001	<0.01	<0.01	0.87	0.03	0.002	0.35
1649349	Drill Core			<0.001	<0.001	<0.02	<0.01	<2	0.003	<0.001	0.03	2.15	0.09	0.03	<0.001	<0.01	<0.01	1.59	0.05	0.002	0.63
1649350	Drill Core			<0.001	<0.001	<0.02	<0.01	<2	0.003	<0.001	0.03	2.22	0.04	0.03	<0.001	<0.01	<0.01	1.80	0.07	0.003	1.04
1649351	Drill Core			<0.001	<0.001	<0.02	0.02	<2	0.003	0.001	0.05	1.63	0.07	0.03	<0.001	<0.01	<0.01	2.81	0.03	0.002	1.18
1649352	Drill Core			<0.001	0.001	<0.02	<0.01	<2	0.004	0.001	0.04	1.70	0.09	0.03	<0.001	<0.01	<0.01	2.27	0.03	0.003	0.93
1649353	Drill Core			<0.001	0.001	<0.02	<0.01	<2	0.003	0.001	0.04	1.67	<0.02	0.04	<0.001	<0.01	<0.01	2.43	0.03	0.002	0.78
1649354	Rock			<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.60	<0.02	<0.01	<0.001	<0.01	<0.01	0.03	<0.01	<0.001	0.02
1649355	Drill Core			<0.001	<0.001	<0.02	<0.01	<2	0.003	0.001	0.05	1.69	<0.02	0.04	<0.001	<0.01	<0.01	4.15	0.02	0.002	0.80
1649356	Drill Core			<0.001	0.001	<0.02	0.01	<2	0.004	0.001	0.06	2.45	<0.02	0.04	<0.001	<0.01	<0.01	4.36	0.02	0.002	0.91
1649357	Drill Core	7.0	99.94	<0.001	0.001	<0.02	0.01	<2	0.004	0.002	0.06	3.08	<0.02	0.04	<0.001	<0.01	<0.01	3.68	0.02	0.003	0.99
1649358	Drill Core			<0.001	0.001	<0.02	0.04	<2	0.004	0.002	0.05	3.20	<0.02	0.04	<0.001	<0.01	<0.01	3.73	0.02	0.003	1.75



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TIM18001852.1

Method	Analyte	MA370	MA370	MA370	MA370	MA370	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
		Al	Na	K	W	S	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	
Unit		%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	
MDL		0.01	0.01	0.01	0.01	0.05	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1
1649329	Drill Core	6.18	3.03	0.91	<0.01	0.62																
1649330	Drill Core	6.60	3.40	0.98	<0.01	0.57																
1649331	Drill Core	5.06	2.44	0.80	<0.01	0.50																
1649332	Drill Core	7.31	3.17	1.21	<0.01	0.46																
1649333	Drill Core	6.97	3.20	1.32	<0.01	0.49																
1649334	Drill Core	6.83	3.35	1.24	<0.01	0.53																
1649335	Drill Core	7.41	4.51	0.70	<0.01	0.46																
1649336	Drill Core	6.84	3.16	1.20	<0.01	0.77																
1649337	Drill Core	6.83	3.43	1.13	<0.01	0.47																
1649338	Drill Core	6.02	2.99	1.05	<0.01	1.02																
1649339	Drill Core	5.02	2.69	0.92	<0.01	1.21																
1649340	Rock	0.17	0.04	0.04	<0.01	<0.05																
1649341	Drill Core	1.55	1.09	0.16	<0.01	0.49																
1649342	Drill Core	2.62	1.37	0.40	<0.01	0.78	0.8	3.8	459.9	55	1.6	26.9	8.2	190	1.76	461.4	647.6	8.5	75	0.1	1.2	
1649343	Rock Pulp	7.30	2.32	0.44	<0.01	0.10																
1649344	Drill Core	4.38	1.81	0.81	<0.01	1.11	0.9	13.7	10.7	49	0.2	47.5	12.5	374	3.13	1075.1	73.1	4.2	136	<0.1	0.7	
1649345	Drill Core	6.20	1.87	1.66	<0.01	1.20	0.7	32.0	9.9	54	0.2	79.5	24.2	906	4.42	2163.6	97.3	4.0	245	<0.1	0.4	
1649346	Drill Core	7.15	1.95	2.34	<0.01	1.46	0.9	39.3	9.8	57	0.3	71.2	19.5	803	4.17	1453.5	73.7	5.1	271	0.1	0.2	
1649347	Drill Core	7.00	1.54	2.41	<0.01	0.68	0.9	4.8	9.7	28	0.5	25.9	9.3	293	1.75	1949.5	324.8	4.7	78	<0.1	0.2	
1649348	Drill Core	6.11	1.58	1.96	<0.01	0.71	0.7	3.1	4.7	42	0.7	21.1	8.5	232	1.56	4334.1	155.1	3.2	54	<0.1	0.4	
1649349	Drill Core	8.00	2.44	2.32	<0.01	0.69	1.1	4.4	10.8	72	0.5	30.2	9.0	355	1.86	1063.0	1387.4	2.8	70	0.2	0.2	
1649350	Drill Core	8.95	2.06	2.78	<0.01	0.26	0.9	2.3	8.9	63	0.8	29.3	10.3	337	1.85	532.8	2014.1	1.8	50	0.2	0.3	
1649351	Drill Core	9.44	2.86	2.80	<0.01	0.26	0.8	8.0	13.3	184	0.1	32.3	11.3	500	1.28	742.0	9.3	2.0	47	0.6	0.2	
1649352	Drill Core	9.66	2.38	3.13	<0.01	0.30																
1649353	Drill Core	9.54	3.24	2.68	<0.01	0.22																
1649354	Rock	0.20	0.05	0.05	<0.01	<0.05																
1649355	Drill Core	9.23	2.29	2.98	<0.01	0.15																
1649356	Drill Core	8.39	2.18	2.65	<0.01	0.51																
1649357	Drill Core	8.66	2.58	2.51	<0.01	0.82																
1649358	Drill Core	8.13	2.14	2.47	<0.01	1.15																



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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
Analyte	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	
Unit	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	
MDL	0.1	1	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.01	0.05	1	0.5	
1649329	Drill Core																				
1649330	Drill Core																				
1649331	Drill Core																				
1649332	Drill Core																				
1649333	Drill Core																				
1649334	Drill Core																				
1649335	Drill Core																				
1649336	Drill Core																				
1649337	Drill Core																				
1649338	Drill Core																				
1649339	Drill Core																				
1649340	Rock																				
1649341	Drill Core																				
1649342	Drill Core	0.5	8	0.69	0.019	10	28	0.40	49	0.001	<20	0.44	0.060	0.09	0.3	0.01	1.1	<0.1	0.76	2	0.9
1649343	Rock Pulp																				
1649344	Drill Core	<0.1	17	1.34	0.038	12	49	0.84	83	0.002	<20	0.98	0.076	0.19	0.3	<0.01	2.9	<0.1	1.11	4	0.9
1649345	Drill Core	<0.1	21	3.05	0.058	12	52	1.43	92	0.002	<20	1.14	0.058	0.29	0.3	0.01	3.6	0.1	1.33	4	1.1
1649346	Drill Core	0.1	12	3.36	0.082	17	24	1.26	124	0.002	<20	0.73	0.056	0.38	0.5	<0.01	2.9	0.1	1.69	2	1.3
1649347	Drill Core	<0.1	7	0.96	0.037	13	8	0.31	155	0.001	<20	0.72	0.057	0.39	0.3	<0.01	1.1	0.1	0.72	3	0.6
1649348	Drill Core	<0.1	5	0.82	0.031	12	9	0.28	115	0.001	<20	0.57	0.055	0.31	0.3	<0.01	0.8	<0.1	0.72	2	1.5
1649349	Drill Core	<0.1	8	1.48	0.050	16	7	0.56	115	0.002	<20	0.85	0.074	0.40	0.3	<0.01	1.1	0.1	0.70	3	<0.5
1649350	Drill Core	<0.1	8	1.65	0.071	13	8	0.94	107	0.002	<20	1.32	0.066	0.43	0.2	0.01	1.3	0.1	0.25	3	<0.5
1649351	Drill Core	<0.1	5	2.54	0.031	17	5	1.07	89	0.001	<20	0.71	0.071	0.36	<0.1	0.02	1.2	<0.1	0.25	2	<0.5
1649352	Drill Core																				
1649353	Drill Core																				
1649354	Rock																				
1649355	Drill Core																				
1649356	Drill Core																				
1649357	Drill Core																				
1649358	Drill Core																				



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CERTIFICATE OF ANALYSIS

TIM18001852.1

Method	Analyte	AQ200	FA530
		Te	Au
Unit		ppm	gm/t
MDL		0.2	0.9
1649329	Drill Core		
1649330	Drill Core		
1649331	Drill Core		
1649332	Drill Core		
1649333	Drill Core		
1649334	Drill Core		
1649335	Drill Core		
1649336	Drill Core		
1649337	Drill Core		
1649338	Drill Core		
1649339	Drill Core		
1649340	Rock		
1649341	Drill Core		
1649342	Drill Core	0.7	9.9
1649343	Rock Pulp		
1649344	Drill Core	0.2	
1649345	Drill Core	<0.2	
1649346	Drill Core	0.5	
1649347	Drill Core	0.7	
1649348	Drill Core	1.1	
1649349	Drill Core	<0.2	
1649350	Drill Core	<0.2	
1649351	Drill Core	<0.2	
1649352	Drill Core		
1649353	Drill Core		
1649354	Rock		
1649355	Drill Core		
1649356	Drill Core		
1649357	Drill Core		
1649358	Drill Core		



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Method	WGHT	FA430	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	
Analyte	Wgt	Au	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	
Unit	kg	ppm	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	
Pulp Duplicates																					
1649293	Drill Core	2.76	6.155																		
REP 1649293	QC																				
1649320	Drill Core	2.24	0.040																		
REP 1649320	QC		0.038																		
1649328	Drill Core	1.88	0.013																		
REP 1649328	QC																				
1649337	Drill Core	1.85	0.024																		
REP 1649337	QC		0.023																		
1649345	Drill Core	1.75	0.092																		
REP 1649345	QC		0.089																		
REP 1649346	QC																				
1649348	Drill Core	2.07	0.257																		
REP 1649348	QC		0.244																		
1649351	Drill Core	2.13	0.145																		
REP 1649351	QC		0.105																		
1649357	Drill Core	2.18	0.023	58.09	16.66	4.23	1.75	5.04	3.30	3.02	0.58	0.04	0.07	0.007	443	45	385	78	13	<5	4
REP 1649357	QC			58.27	16.60	4.25	1.75	5.00	3.27	2.96	0.57	0.03	0.07	0.008	443	47	383	77	13	<5	4
Core Reject Duplicates																					
1649278	Drill Core	1.52	0.013																		
DUP 1649278	QC		0.014																		
1649312	Drill Core	2.52	7.469																		
DUP 1649312	QC		8.618																		
1649346	Drill Core	2.53	0.075	57.13	13.99	6.53	2.49	5.08	2.56	2.87	0.52	0.18	0.11	0.027	789	71	458	136	13	8	12
DUP 1649346	QC		0.081																		
Reference Materials																					
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD CDN-ME-14	Standard																				



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Method	LF300	LF300	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	
Analyte	LOI	Sum	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	
Unit	%	%	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%	
MDL	-5.1	0.01	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01	
Pulp Duplicates																					
1649293	Drill Core		<0.001	0.007	<0.02	<0.01	5	0.003	0.001	0.01	18.86	0.76	<0.01	<0.001	<0.01	<0.01	0.10	0.04	0.003	0.56	
REP 1649293	QC		<0.001	0.007	<0.02	<0.01	4	0.003	0.001	0.01	18.92	0.75	<0.01	<0.001	<0.01	<0.01	0.10	0.04	0.003	0.56	
1649320	Drill Core		<0.001	0.001	<0.02	<0.01	<2	0.005	0.001	0.07	3.06	<0.02	0.05	<0.001	<0.01	<0.01	3.42	0.04	0.009	1.34	
REP 1649320	QC																				
1649328	Drill Core		<0.001	0.003	<0.02	<0.01	<2	0.007	0.002	0.07	3.89	<0.02	0.05	<0.001	<0.01	<0.01	2.84	0.07	0.014	1.36	
REP 1649328	QC		<0.001	0.003	<0.02	<0.01	<2	0.007	0.002	0.07	3.91	<0.02	0.05	<0.001	<0.01	<0.01	2.87	0.07	0.015	1.37	
1649337	Drill Core		<0.001	0.001	<0.02	<0.01	<2	0.007	0.002	0.07	3.88	<0.02	0.05	<0.001	<0.01	<0.01	2.74	0.06	0.010	1.36	
REP 1649337	QC																				
1649345	Drill Core		<0.001	0.003	<0.02	<0.01	<2	0.008	0.002	0.09	4.86	0.16	0.04	<0.001	<0.01	<0.01	3.27	0.06	0.013	1.56	
REP 1649345	QC																				
REP 1649346	QC																				
1649348	Drill Core		<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.02	1.76	0.33	0.02	<0.001	<0.01	<0.01	0.87	0.03	0.002	0.35	
REP 1649348	QC																				
1649351	Drill Core		<0.001	<0.001	<0.02	0.02	<2	0.003	0.001	0.05	1.63	0.07	0.03	<0.001	<0.01	<0.01	2.81	0.03	0.002	1.18	
REP 1649351	QC																				
1649357	Drill Core	7.0	99.94	<0.001	0.001	<0.02	0.01	<2	0.004	0.002	0.06	3.08	<0.02	0.04	<0.001	<0.01	<0.01	3.68	0.02	0.003	0.99
REP 1649357	QC	7.0	99.95																		
Core Reject Duplicates																					
1649278	Drill Core		<0.001	<0.001	<0.02	0.03	<2	0.001	<0.001	0.06	1.87	<0.02	0.02	<0.001	<0.01	<0.01	2.56	0.03	0.002	1.16	
DUP 1649278	QC		<0.001	<0.001	<0.02	0.03	<2	0.001	<0.001	0.06	1.88	<0.02	0.02	<0.001	<0.01	<0.01	2.55	0.03	0.002	1.15	
1649312	Drill Core		<0.001	0.007	<0.02	<0.01	3	0.004	0.002	0.03	17.60	0.81	0.01	<0.001	<0.01	<0.01	0.90	0.06	0.003	0.92	
DUP 1649312	QC		<0.001	0.007	<0.02	<0.01	3	0.004	0.001	0.03	17.87	0.83	0.01	<0.001	<0.01	<0.01	0.94	0.06	0.003	0.89	
1649346	Drill Core	8.3	99.94	<0.001	0.003	<0.02	<0.01	<2	0.007	0.002	0.08	4.68	0.09	0.05	<0.001	<0.01	<0.01	3.67	0.09	0.012	1.39
DUP 1649346	QC		<0.001	0.004	<0.02	<0.01	<2	0.008	0.002	0.08	4.84	0.12	0.05	<0.001	<0.01	<0.01	3.61	0.10	0.017	1.39	
Reference Materials																					
STD CDN-ME-14	Standard		0.002	1.235	0.49	3.23	45	0.002	0.018	0.09	18.87	<0.02	<0.01	0.009	<0.01	0.01	0.78	0.02	0.001	1.30	
STD CDN-ME-9	Standard		<0.001	0.657	<0.02	0.01	4	0.950	0.018	0.12	14.43	<0.02	0.03	<0.001	<0.01	<0.01	4.42	0.06	0.029	4.06	
STD CDN-ME-14	Standard		0.002	1.220	0.49	3.17	44	0.002	0.018	0.09	18.64	<0.02	<0.01	0.009	<0.01	0.01	0.77	0.02	0.002	1.29	



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Method	Analyte	MA370	MA370	MA370	MA370	MA370	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Al	Na	K	W	S	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb
Unit		%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm
MDL		0.01	0.01	0.01	0.01	0.05	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
Pulp Duplicates																					
1649293	Drill Core	4.79	0.09	1.89	<0.01	16.42															
REP 1649293	QC	4.89	0.09	1.91	<0.01	16.64															
1649320	Drill Core	4.60	2.18	0.95	<0.01	0.53															
REP 1649320	QC																				
1649328	Drill Core	6.15	2.86	1.16	<0.01	0.67															
REP 1649328	QC	6.21	2.89	1.17	<0.01	0.67															
1649337	Drill Core	6.83	3.43	1.13	<0.01	0.47															
REP 1649337	QC																				
1649345	Drill Core	6.20	1.87	1.66	<0.01	1.20	0.7	32.0	9.9	54	0.2	79.5	24.2	906	4.42	2163.6	97.3	4.0	245	<0.1	0.4
REP 1649345	QC																				
REP 1649346	QC						0.6	39.9	8.3	55	0.3	82.3	21.3	769	4.22	1801.1	77.2	5.1	269	0.1	0.2
1649348	Drill Core	6.11	1.58	1.96	<0.01	0.71	0.7	3.1	4.7	42	0.7	21.1	8.5	232	1.56	4334.1	155.1	3.2	54	<0.1	0.4
REP 1649348	QC																				
1649351	Drill Core	9.44	2.86	2.80	<0.01	0.26	0.8	8.0	13.3	184	0.1	32.3	11.3	500	1.28	742.0	9.3	2.0	47	0.6	0.2
REP 1649351	QC																				
1649357	Drill Core	8.66	2.58	2.51	<0.01	0.82															
REP 1649357	QC																				
Core Reject Duplicates																					
1649278	Drill Core	7.00	1.10	2.63	<0.01	0.57															
DUP 1649278	QC	7.00	1.11	2.62	<0.01	0.59															
1649312	Drill Core	4.37	0.87	1.10	<0.01	13.76															
DUP 1649312	QC	4.15	0.85	1.04	<0.01	14.15															
1649346	Drill Core	7.15	1.95	2.34	<0.01	1.46	0.9	39.3	9.8	57	0.3	71.2	19.5	803	4.17	1453.5	73.7	5.1	271	0.1	0.2
DUP 1649346	QC	7.46	1.99	2.47	<0.01	1.45	0.7	42.1	8.7	56	0.4	83.8	21.6	770	4.28	1790.4	205.6	5.3	278	<0.1	0.2
Reference Materials																					
STD CDN-ME-14	Standard	4.56	0.54	1.72	<0.01	16.24															
STD CDN-ME-9	Standard	6.76	1.86	0.63	<0.01	2.55															
STD CDN-ME-14	Standard	4.47	0.54	1.70	<0.01	15.92															



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Method	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
Analyte	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	
Unit	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	
MDL	0.1	1	0.01	0.001	1	1	0.01	1	0.001	20	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5		
Pulp Duplicates																					
1649293 Drill Core																					
REP 1649293 QC																					
1649320 Drill Core																					
REP 1649320 QC																					
1649328 Drill Core																					
REP 1649328 QC																					
1649337 Drill Core																					
REP 1649337 QC																					
1649345 Drill Core	<0.1	21	3.05	0.058	12	52	1.43	92	0.002	<20	1.14	0.058	0.29	0.3	0.01	3.6	0.1	1.33	4	1.1	
REP 1649345 QC																					
REP 1649346 QC	0.1	12	3.28	0.091	16	25	1.23	130	0.002	<20	0.76	0.055	0.39	0.4	<0.01	2.9	0.1	1.67	2	1.0	
1649348 Drill Core	<0.1	5	0.82	0.031	12	9	0.28	115	0.001	<20	0.57	0.055	0.31	0.3	<0.01	0.8	<0.1	0.72	2	1.5	
REP 1649348 QC																					
1649351 Drill Core	<0.1	5	2.54	0.031	17	5	1.07	89	0.001	<20	0.71	0.071	0.36	<0.1	0.02	1.2	<0.1	0.25	2	<0.5	
REP 1649351 QC																					
1649357 Drill Core																					
REP 1649357 QC																					
Core Reject Duplicates																					
1649278 Drill Core																					
DUP 1649278 QC																					
1649312 Drill Core																					
DUP 1649312 QC																					
1649346 Drill Core	0.1	12	3.36	0.082	17	24	1.26	124	0.002	<20	0.73	0.056	0.38	0.5	<0.01	2.9	0.1	1.69	2	1.3	
DUP 1649346 QC	0.1	13	3.33	0.097	18	31	1.25	139	0.002	<20	0.79	0.058	0.40	0.5	<0.01	3.2	0.2	1.77	2	1.6	
Reference Materials																					
STD CDN-ME-14 Standard																					
STD CDN-ME-9 Standard																					
STD CDN-ME-14 Standard																					



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Method	AQ200	FA530
Analyte	Te	Au
Unit	ppm	gm/t
MDL	0.2	0.9
Pulp Duplicates		
1649293	Drill Core	
REP 1649293	QC	
1649320	Drill Core	
REP 1649320	QC	
1649328	Drill Core	
REP 1649328	QC	
1649337	Drill Core	
REP 1649337	QC	
1649345	Drill Core	<0.2
REP 1649345	QC	
REP 1649346	QC	0.5
1649348	Drill Core	1.1
REP 1649348	QC	
1649351	Drill Core	<0.2
REP 1649351	QC	
1649357	Drill Core	
REP 1649357	QC	
Core Reject Duplicates		
1649278	Drill Core	
DUP 1649278	QC	
1649312	Drill Core	
DUP 1649312	QC	
1649346	Drill Core	0.5
DUP 1649346	QC	0.5
Reference Materials		
STD CDN-ME-14	Standard	
STD CDN-ME-9	Standard	
STD CDN-ME-14	Standard	



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		WGHT	FA430	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300		
		Wgt	Au	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	
		kg	ppm	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
		0.01	0.005	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	
STD CDN-ME-9	Standard																					
STD CDN-ME-14	Standard																					
STD CDN-ME-9	Standard																					
STD DS11	Standard																					
STD OREAS45EA	Standard																					
STD OXC145	Standard		0.208																			
STD OXC145	Standard		0.204																			
STD OXC145	Standard		0.202																			
STD OXH139	Standard		1.241																			
STD OXH139	Standard		1.250																			
STD OXH139	Standard		1.247																			
STD OXN134	Standard		7.524																			
STD OXN134	Standard		7.390																			
STD OXN134	Standard		7.510																			
STD OXP116	Standard																					
STD OXQ90	Standard																					
STD OXQ90	Standard																					
STD SO-19	Standard			60.17	14.03	7.57	2.94	5.95	4.12	1.31	0.70	0.33	0.13	0.508	469	474	311	119	35	73	26	
STD SO-19	Standard			59.99	14.14	7.66	2.94	6.02	4.06	1.29	0.71	0.33	0.13	0.511	475	484	313	119	34	79	26	
STD SO-19 Expected				61.13	13.95	7.47	2.88	6	4.11	1.29	0.69	0.32	0.13	0.5	486	470	317.1	112	35.5	68.5	27	
STD OXC145 Expected			0.212																			
STD OXN134 Expected			7.667																			
STD OXH139 Expected			1.312																			
STD CDN-ME-14 Expected																						
STD CDN-ME-9 Expected																						
STD OXP116 Expected																						
STD OXQ90 Expected																						
STD OREAS45EA Expected																						
STD DS11 Expected																						



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: October 25, 2018

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QUALITY CONTROL REPORT

TIM18001852.1

		LF300	LF300	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	
		LOI	Sum	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg
		%	%	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%
		-5.1	0.01	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01
STD CDN-ME-9	Standard			<0.001	0.651	<0.02	0.01	4	0.932	0.018	0.12	14.28	<0.02	0.03	<0.001	<0.01	<0.01	4.36	0.06	0.026	4.02
STD CDN-ME-14	Standard			0.002	1.224	0.52	3.17	44	0.002	0.018	0.09	18.34	<0.02	<0.01	0.010	<0.01	<0.01	0.75	0.02	0.002	1.27
STD CDN-ME-9	Standard			<0.001	0.654	<0.02	0.01	3	0.910	0.018	0.12	13.97	<0.02	0.03	<0.001	<0.01	<0.01	4.30	0.06	0.029	3.97
STD DS11	Standard																				
STD OREAS45EA	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXN134	Standard																				
STD OXN134	Standard																				
STD OXN134	Standard																				
STD OXP116	Standard																				
STD OXQ90	Standard																				
STD OXQ90	Standard																				
STD SO-19	Standard	1.9	99.87																		
STD SO-19	Standard	1.9	99.90																		
STD SO-19 Expected																					
STD OXC145 Expected																					
STD OXN134 Expected																					
STD OXH139 Expected																					
STD CDN-ME-14 Expected				1.221	0.495	3.17	43.5	0.002	0.0172	0.0883	18.04	0.0088		0.0088		0.0094	0.747	0.0147	0.0014	1.28	
STD CDN-ME-9 Expected				0.654		0.012		0.912	0.0169	0.121	13.84		0.03				4.21	0.06	0.0284	4.05	
STD OXP116 Expected																					
STD OXQ90 Expected																					
STD OREAS45EA Expected																					
STD DS11 Expected																					



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Project: Mikwam (MK)
Report Date: October 25, 2018

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QUALITY CONTROL REPORT

TIM18001852.1

		MA370	MA370	MA370	MA370	MA370	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200
		Al	Na	K	W	S	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb
		%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm
		0.01	0.01	0.01	0.01	0.05	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
STD CDN-ME-9	Standard	6.67	1.84	0.63	<0.01	2.64															
STD CDN-ME-14	Standard	4.42	0.54	1.66	<0.01	15.82															
STD CDN-ME-9	Standard	6.61	1.83	0.62	<0.01	2.51															
STD DS11	Standard						15.9	156.3	141.2	346	1.6	83.3	14.6	1061	3.23	43.3	79.0	9.0	67	2.4	8.0
STD OREAS45EA	Standard						1.7	747.1	16.1	35	0.2	420.1	53.1	407	23.01	13.4	60.7	11.8	4	<0.1	0.4
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXC145	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXH139	Standard																				
STD OXN134	Standard																				
STD OXN134	Standard																				
STD OXN134	Standard																				
STD OXP116	Standard																				
STD OXQ90	Standard																				
STD OXQ90	Standard																				
STD SO-19	Standard																				
STD SO-19	Standard																				
STD SO-19 Expected																					
STD OXC145 Expected																					
STD OXN134 Expected																					
STD OXH139 Expected																					
STD CDN-ME-14 Expected		4.47	0.53	1.7		16.14															
STD CDN-ME-9 Expected		6.74	1.86	0.616		2.58															
STD OXP116 Expected																					
STD OXQ90 Expected																					
STD OREAS45EA Expected							1.6	709	14.3	31.4	0.26	381	52	400	22.65	11.4	53	10.7	4.05	0.03	0.32
STD DS11 Expected							13.9	149	138	345	1.71	77.7	14.2	1055	3.1	42.8	79	7.65	67.3	2.37	7.2



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Project: Mikwam (MK)
Report Date: October 25, 2018

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QUALITY CONTROL REPORT

TIM18001852.1

		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	
		Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	
		ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	
		0.1	1	0.01	0.001	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	
STD CDN-ME-9	Standard																					
STD CDN-ME-14	Standard																					
STD CDN-ME-9	Standard																					
STD DS11	Standard	12.0	51	1.07	0.071	19	59	0.85	391	0.100	<20	1.19	0.074	0.42	2.9	0.30	3.0	5.1	0.29	5	3.5	
STD OREAS45EA	Standard	0.2	326	0.04	0.029	8	849	0.09	154	0.100	<20	3.62	0.016	0.06	<0.1	0.02	75.3	<0.1	<0.05	14	1.9	
STD OXC145	Standard																					
STD OXC145	Standard																					
STD OXC145	Standard																					
STD OXH139	Standard																					
STD OXH139	Standard																					
STD OXH139	Standard																					
STD OXN134	Standard																					
STD OXN134	Standard																					
STD OXN134	Standard																					
STD OXP116	Standard																					
STD OXQ90	Standard																					
STD OXQ90	Standard																					
STD SO-19	Standard																					
STD SO-19	Standard																					
STD SO-19 Expected																						
STD OXC145 Expected																						
STD OXN134 Expected																						
STD OXH139 Expected																						
STD CDN-ME-14 Expected																						
STD CDN-ME-9 Expected																						
STD OXP116 Expected																						
STD OXQ90 Expected																						
STD OREAS45EA Expected		0.26	303	0.036	0.029	7.06	849	0.095	148	0.0984		3.32	0.02	0.053			78	0.072	0.036	12.4	0.78	
STD DS11 Expected		12.2	50	1.063	0.0701	18.6	61.5	0.85	417	0.0976		1.129	0.0694	0.4	2.9	0.26	3.1	4.9	0.2835	4.7	2.2	



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Project: Mikwam (MK)
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QUALITY CONTROL REPORT

TIM18001852.1

		AQ200	FA530
		Te	Au
		ppm	gm/t
		0.2	0.9
STD CDN-ME-9	Standard		
STD CDN-ME-14	Standard		
STD CDN-ME-9	Standard		
STD DS11	Standard	4.8	
STD OREAS45EA	Standard	<0.2	
STD OXC145	Standard		
STD OXC145	Standard		
STD OXC145	Standard		
STD OXH139	Standard		
STD OXH139	Standard		
STD OXH139	Standard		
STD OXN134	Standard		
STD OXN134	Standard		
STD OXN134	Standard		
STD OXP116	Standard		15.2
STD OXQ90	Standard		25.0
STD OXQ90	Standard		24.9
STD SO-19	Standard		
STD SO-19	Standard		
STD SO-19 Expected			
STD OXC145 Expected			
STD OXN134 Expected			
STD OXH139 Expected			
STD CDN-ME-14 Expected			
STD CDN-ME-9 Expected			
STD OXP116 Expected			14.92
STD OXQ90 Expected			24.88
STD OREAS45EA Expected		0.1	
STD DS11 Expected		4.56	



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Report Date: October 25, 2018

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QUALITY CONTROL REPORT

TIM18001852.1

		WGHT	FA430	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	
		Wgt	Au	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc
		kg	ppm	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.005	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank			0.08	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1
BLK	Blank																				
BLK	Blank																				
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-TIM	Prep Blank	<0.005																			
ROCK-TIM	Prep Blank	<0.005																			



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QUALITY CONTROL REPORT

TIM18001852.1

		LF300	LF300	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	
		LOI	Sum	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg
		%	%	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%
		-5.1	0.01	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank																				
BLK	Blank	0.0	0.14																		
BLK	Blank			<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.02	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01
BLK	Blank			<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.02	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01
BLK	Blank																				
BLK	Blank			<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.02	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01
BLK	Blank																				
BLK	Blank																				
Prep Wash																					
ROCK-TIM	Prep Blank			<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	0.07	2.17	<0.02	0.02	<0.001	<0.01	<0.01	1.52	0.04	<0.001	0.55
ROCK-TIM	Prep Blank			<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	0.07	2.18	<0.02	0.02	<0.001	<0.01	<0.01	1.54	0.04	<0.001	0.57



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QUALITY CONTROL REPORT

TIM18001852.1

		AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200	AQ200		
		Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	
		ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	
		0.1	1	0.01	0.001	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	
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank																					
BLK	Blank	<0.1	<1	<0.01	<0.001	<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	
Prep Wash																						
ROCK-TIM	Prep Blank																					
ROCK-TIM	Prep Blank																					



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QUALITY CONTROL REPORT

TIM18001852.1

		AQ200	FA530
		Te	Au
		ppm	gm/t
		0.2	0.9
BLK	Blank		
BLK	Blank		
BLK	Blank		
BLK	Blank		
BLK	Blank		
BLK	Blank		
BLK	Blank		
BLK	Blank		
BLK	Blank		
BLK	Blank		
BLK	Blank		<0.9
BLK	Blank	<0.2	
Prep Wash			
ROCK-TIM	Prep Blank		
ROCK-TIM	Prep Blank		



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: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: September 11, 2018
Report Date: October 09, 2018
Page: 1 of 2

CERTIFICATE OF ANALYSIS

TIM18001853.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID:
P.O. Number
Number of Samples: 10

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.

Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	10	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	0	Sort, label and box pulps			TIM
FA430	10	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	10	Environmental disposal charge-Fire assay lead waste			TIM
LF300	1	LiBO2/Li2B4O7 fusion ICP-ES analysis	0.2	Completed	VAN
MA370	10	4-Acid Digestion ICP-ES Finish	0.5	Completed	VAN
SHP01	10	Per sample shipping charges for branch shipments			TIM

ADDITIONAL COMMENTS



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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Project: Mikwam (MK)
Report Date: October 09, 2018

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CERTIFICATE OF ANALYSIS

TIM18001853.1

Method	WGHT	FA430	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300
Analyte	Wgt	Au	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc
Unit	kg	ppm	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL	0.01	0.005	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1
1649259	Drill Core	2.16	0.016																	
1649260	Drill Core	1.93	0.007																	
1649261	Drill Core	1.79	0.006																	
1649262	Drill Core	2.32	0.007																	
1649263	Drill Core	1.63	<0.005																	
1649264	Drill Core	1.75	0.007																	
1649265	Drill Core	2.07	0.024																	
1649266	Drill Core	2.23	0.041	58.22	14.90	8.67	1.66	2.65	2.77	2.70	0.69	0.12	0.06	0.011	429	70	276	155	16	8
1649267	Drill Core	1.91	<0.005																	
1649268	Drill Core	2.22	0.009																	



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CERTIFICATE OF ANALYSIS

TIM18001853.1

Method	Analyte	LF300	LF300	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	
		LOI	Sum	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg
Unit		%	%	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%
MDL		-5.1	0.01	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.01
1649259	Drill Core			<0.001	0.003	<0.02	<0.01	<2	0.005	0.002	0.05	3.07	<0.02	0.03	<0.001	<0.01	<0.01	2.32	0.05	0.006	1.04
1649260	Drill Core			<0.001	0.002	<0.02	<0.01	<2	0.002	<0.001	0.03	2.31	<0.02	0.03	<0.001	<0.01	<0.01	1.71	0.04	0.002	0.76
1649261	Drill Core			<0.001	0.003	<0.02	0.02	<2	0.003	0.001	0.04	2.60	<0.02	0.03	<0.001	<0.01	<0.01	1.83	0.04	0.003	0.81
1649262	Drill Core			<0.001	0.004	<0.02	0.01	<2	0.005	0.003	0.06	3.95	0.02	0.03	<0.001	<0.01	<0.01	1.80	0.06	0.005	0.86
1649263	Drill Core			<0.001	0.004	<0.02	0.01	<2	0.004	0.002	0.05	3.03	<0.02	0.03	<0.001	<0.01	<0.01	1.67	0.06	0.004	0.77
1649264	Drill Core			<0.001	0.004	<0.02	<0.01	<2	0.004	0.002	0.05	2.82	0.04	0.03	<0.001	<0.01	<0.01	1.94	0.05	0.003	0.93
1649265	Drill Core			<0.001	0.003	<0.02	<0.01	<2	0.004	0.002	0.05	3.36	<0.02	0.03	<0.001	<0.01	<0.01	2.00	0.06	0.004	0.88
1649266	Drill Core	7.4	99.94	<0.001	0.006	<0.02	<0.01	<2	0.007	0.004	0.05	6.28	0.03	0.03	<0.001	<0.01	<0.01	1.89	0.05	0.004	0.94
1649267	Drill Core			<0.001	0.002	<0.02	0.01	<2	0.002	<0.001	0.04	1.85	<0.02	0.03	<0.001	<0.01	<0.01	1.76	0.03	0.001	0.77
1649268	Drill Core			<0.001	0.003	<0.02	0.05	<2	0.002	0.001	0.04	2.44	<0.02	0.03	<0.001	<0.01	<0.01	1.80	0.04	0.002	0.78



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Bureau Veritas Commodities Canada Ltd.

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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: October 09, 2018

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CERTIFICATE OF ANALYSIS

TIM18001853.1

Method	Analyte	MA370	MA370	MA370	MA370	MA370
		Al	Na	K	W	S
Unit		%	%	%	%	%
MDL		0.01	0.01	0.01	0.01	0.05
1649259	Drill Core	7.16	1.91	2.17	<0.01	2.37
1649260	Drill Core	7.60	2.38	2.12	<0.01	1.40
1649261	Drill Core	7.53	2.42	2.05	<0.01	1.39
1649262	Drill Core	8.11	1.48	2.78	<0.01	2.18
1649263	Drill Core	8.40	1.50	2.95	<0.01	1.67
1649264	Drill Core	7.98	1.04	3.04	<0.01	1.48
1649265	Drill Core	7.21	1.39	2.43	<0.01	2.05
1649266	Drill Core	7.65	2.12	2.23	<0.01	5.21
1649267	Drill Core	7.06	1.92	2.17	<0.01	0.63
1649268	Drill Core	7.32	2.45	2.01	<0.01	1.18



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Project: Mikwam (MK)
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QUALITY CONTROL REPORT

TIM18001853.1

Method	WGHT	FA430	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	LF300	
Analyte	Wgt	Au	SiO2	Al2O3	Fe2O3	MgO	CaO	Na2O	K2O	TiO2	P2O5	MnO	Cr2O3	Ba	Ni	Sr	Zr	Y	Nb	Sc	
Unit	kg	ppm	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.01	0.005	0.01	0.01	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.002	5	20	2	5	3	5	1	
1649266	Drill Core	2.23	0.041	58.22	14.90	8.67	1.66	2.65	2.77	2.70	0.69	0.12	0.06	0.011	429	70	276	155	16	8	15
Pulp Duplicates																					
1649261	Drill Core	1.79	0.006																		
REP 1649261	QC																				
Core Reject Duplicates																					
1649267	Drill Core	1.91	<0.005																		
DUP 1649267	QC		0.017																		
Reference Materials																					
STD CDN-ME-14	Standard																				
STD CDN-ME-9	Standard																				
STD OXC145	Standard		0.213																		
STD OXH139	Standard		1.291																		
STD OXN134	Standard		7.420																		
STD SO-19	Standard			60.17	14.03	7.57	2.94	5.95	4.12	1.31	0.70	0.33	0.13	0.508	469	474	311	119	35	73	26
STD SO-19	Standard			59.99	14.14	7.66	2.94	6.02	4.06	1.29	0.71	0.33	0.13	0.511	475	484	313	119	34	79	26
STD OXC145 Expected			0.212																		
STD OXN134 Expected			7.667																		
STD OXH139 Expected			1.312																		
STD SO-19 Expected				61.13	13.95	7.47	2.88	6	4.11	1.29	0.69	0.32	0.13	0.5	486	470	317.1	112	35.5	68.5	27
STD CDN-ME-14 Expected																					
STD CDN-ME-9 Expected																					
BLK	Blank		0.006																		
BLK	Blank		<0.005																		
BLK	Blank			0.08	<0.01	<0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.002	<5	<20	<2	<5	<3	<5	<1
BLK	Blank																				
Prep Wash																					
ROCK-TIM	Prep Blank		<0.005																		
ROCK-TIM	Prep Blank		<0.005																		



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Project: Mikwam (MK)
Report Date: October 09, 2018

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QUALITY CONTROL REPORT

TIM18001853.1

Method	LF300	LF300	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370
Analyte	LOI	Sum	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	
Unit	%	%	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%	
MDL	-5.1	0.01	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01	
1649266	Drill Core	7.4	99.94	<0.001	0.006	<0.02	<0.01	<2	0.007	0.004	0.05	6.28	0.03	0.03	<0.001	<0.01	<0.01	1.89	0.05	0.004	0.94
Pulp Duplicates																					
1649261	Drill Core			<0.001	0.003	<0.02	0.02	<2	0.003	0.001	0.04	2.60	<0.02	0.03	<0.001	<0.01	<0.01	1.83	0.04	0.003	0.81
REP 1649261	QC			<0.001	0.003	<0.02	0.02	<2	0.003	0.001	0.04	2.59	<0.02	0.03	<0.001	<0.01	<0.01	1.81	0.04	0.003	0.81
Core Reject Duplicates																					
1649267	Drill Core			<0.001	0.002	<0.02	0.01	<2	0.002	<0.001	0.04	1.85	<0.02	0.03	<0.001	<0.01	<0.01	1.76	0.03	0.001	0.77
DUP 1649267	QC			<0.001	0.002	<0.02	0.02	<2	0.002	<0.001	0.04	1.80	<0.02	0.02	<0.001	<0.01	<0.01	1.83	0.03	0.001	0.80
Reference Materials																					
STD CDN-ME-14	Standard			0.002	1.220	0.49	3.17	44	0.002	0.018	0.09	18.64	<0.02	<0.01	0.009	<0.01	0.01	0.77	0.02	0.002	1.29
STD CDN-ME-9	Standard			<0.001	0.651	<0.02	0.01	4	0.932	0.018	0.12	14.28	<0.02	0.03	<0.001	<0.01	<0.01	4.36	0.06	0.026	4.02
STD OXC145	Standard																				
STD OXH139	Standard																				
STD OXN134	Standard																				
STD SO-19	Standard	1.9	99.87																		
STD SO-19	Standard	1.9	99.90																		
STD OXC145 Expected																					
STD OXN134 Expected																					
STD OXH139 Expected																					
STD SO-19 Expected																					
STD CDN-ME-14 Expected				1.221	0.495	3.17	43.5	0.002	0.0172	0.0883	18.04	0.0088		0.0088		0.0094	0.747	0.0147	0.0014	1.28	
STD CDN-ME-9 Expected				0.654		0.012		0.912	0.0169	0.121	13.84		0.03				4.21	0.06	0.0284	4.05	
BLK	Blank																				
BLK	Blank																				
BLK	Blank	0.0	0.14																		
BLK	Blank			<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.02	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01
Prep Wash																					
ROCK-TIM	Prep Blank			<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	0.08	2.31	<0.02	0.02	<0.001	<0.01	<0.01	2.19	0.04	<0.001	0.56
ROCK-TIM	Prep Blank			<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	0.09	2.33	<0.02	0.02	<0.001	<0.01	<0.01	2.44	0.04	<0.001	0.56



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Project: Mikwam (MK)
Report Date: October 09, 2018

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QUALITY CONTROL REPORT

TIM18001853.1

Method	Analyte	MA370	MA370	MA370	MA370	MA370
		Al	Na	K	W	S
Unit		%	%	%	%	%
MDL		0.01	0.01	0.01	0.01	0.05
1649266	Drill Core	7.65	2.12	2.23	<0.01	5.21
Pulp Duplicates						
1649261	Drill Core	7.53	2.42	2.05	<0.01	1.39
REP 1649261	QC	7.42	2.42	2.05	<0.01	1.40
Core Reject Duplicates						
1649267	Drill Core	7.06	1.92	2.17	<0.01	0.63
DUP 1649267	QC	6.91	1.87	2.12	<0.01	0.59
Reference Materials						
STD CDN-ME-14	Standard	4.47	0.54	1.70	<0.01	15.92
STD CDN-ME-9	Standard	6.67	1.84	0.63	<0.01	2.64
STD OXC145	Standard					
STD OXH139	Standard					
STD OXN134	Standard					
STD SO-19	Standard					
STD SO-19	Standard					
STD OXC145 Expected						
STD OXN134 Expected						
STD OXH139 Expected						
STD SO-19 Expected						
STD CDN-ME-14 Expected		4.47	0.53	1.7		16.14
STD CDN-ME-9 Expected		6.74	1.86	0.616		2.58
BLK	Blank					
BLK	Blank					
BLK	Blank					
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.05
Prep Wash						
ROCK-TIM	Prep Blank	7.33	3.51	1.67	<0.01	0.07
ROCK-TIM	Prep Blank	7.33	3.49	1.66	<0.01	0.08



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
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Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: September 17, 2018
Report Date: October 18, 2018
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CERTIFICATE OF ANALYSIS

TIM18001871.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID:
P.O. Number
Number of Samples: 81

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.


Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	77	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	4	Sort, label and box pulps			TIM
FA430	81	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	81	Environmental disposal charge-Fire assay lead waste			TIM
MA370	81	4-Acid Digestion ICP-ES Finish	0.5	Completed	VAN
SHP01	81	Per sample shipping charges for branch shipments			TIM
FA530	5	Lead collection fire assay 30G fusion - Grav finish	30	Completed	TIM

ADDITIONAL COMMENTS


JEFFREY CANNON
Geochemistry Department Supervisor

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 Commodities Canada Ltd.

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Project: Mikwam (MK)
Report Date: October 18, 2018

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CERTIFICATE OF ANALYSIS

TIM18001871.1

Method	WGHT	FA430	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	
Unit	kg	ppm	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%	
MDL	0.01	0.005	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01	
1649359	Drill Core	1.89	0.009	<0.001	0.004	<0.02	0.06	<2	0.008	0.004	0.10	4.59	<0.02	0.02	<0.001	<0.01	<0.01	1.23	0.07	0.008	0.87
1649360	Drill Core	2.22	0.008	<0.001	0.004	<0.02	0.03	<2	0.008	0.003	0.05	4.89	<0.02	0.02	<0.001	<0.01	<0.01	0.90	0.08	0.006	0.60
1649361	Drill Core	1.51	0.008	<0.001	0.004	<0.02	0.02	<2	0.006	0.002	0.02	3.55	<0.02	0.02	<0.001	<0.01	<0.01	0.96	0.07	0.006	0.57
1649362	Drill Core	2.00	0.007	<0.001	0.004	<0.02	0.02	<2	0.006	0.003	0.02	4.15	<0.02	0.02	<0.001	<0.01	<0.01	0.40	0.06	0.004	0.31
1649363	Drill Core	2.29	<0.005	<0.001	0.001	<0.02	0.04	<2	0.004	0.002	0.07	2.89	<0.02	0.02	<0.001	<0.01	<0.01	0.44	0.04	0.002	0.32
1649364	Drill Core	1.82	0.011	<0.001	0.003	<0.02	<0.01	<2	0.004	<0.001	0.05	3.98	<0.02	0.03	<0.001	<0.01	<0.01	2.35	0.05	0.004	0.91
1649365	Drill Core	1.69	0.182	<0.001	0.009	<0.02	0.01	<2	0.007	0.003	0.16	14.25	0.03	<0.01	<0.001	<0.01	<0.01	0.73	0.10	0.003	0.53
1649366	Drill Core	2.05	0.065	<0.001	0.006	<0.02	<0.01	<2	0.003	<0.001	0.06	14.12	<0.02	<0.01	<0.001	<0.01	<0.01	0.44	0.07	0.001	0.32
1649367	Drill Core	1.76	0.133	<0.001	0.003	<0.02	<0.01	<2	0.001	<0.001	0.07	18.95	<0.02	<0.01	<0.001	<0.01	<0.01	0.29	0.07	<0.001	0.13
1649368	Drill Core	1.38	0.067	<0.001	0.012	<0.02	<0.01	<2	0.008	0.001	<0.01	12.43	<0.02	<0.01	<0.001	<0.01	<0.01	0.18	0.08	<0.001	0.06
1649369	Drill Core	1.65	0.012	<0.001	0.003	<0.02	0.03	<2	0.014	0.004	0.03	12.29	<0.02	<0.01	<0.001	<0.01	<0.01	0.26	0.07	0.007	0.72
1649370	Drill Core	2.76	0.024	<0.001	0.001	<0.02	0.03	<2	0.010	0.004	0.05	12.44	<0.02	<0.01	<0.001	<0.01	<0.01	0.31	0.09	0.009	0.81
1649371	Drill Core	1.98	0.010	<0.001	0.005	<0.02	<0.01	<2	0.020	0.003	0.11	6.31	<0.02	0.05	<0.001	<0.01	<0.01	4.30	0.10	0.030	3.14
1649372	Drill Core	2.28	<0.005	<0.001	<0.001	<0.02	0.01	9	0.010	0.002	0.09	14.77	<0.02	0.02	<0.001	<0.01	<0.01	5.12	0.06	0.010	3.07
1649373	Drill Core	3.34	0.006	<0.001	0.001	<0.02	<0.01	<2	0.003	<0.001	0.06	16.35	<0.02	0.01	<0.001	<0.01	<0.01	3.32	0.08	0.004	1.46
1649374	Drill Core	2.55	0.020	<0.001	<0.001	<0.02	<0.01	<2	0.003	0.001	0.11	17.70	<0.02	0.02	<0.001	<0.01	<0.01	2.45	0.07	0.004	1.64
1649375	Rock	0.12	<0.005	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	1.31	<0.02	<0.01	<0.001	<0.01	<0.01	0.08	<0.01	<0.001	0.03
1649376	Drill Core	3.09	1.851	<0.001	0.003	<0.02	0.01	4	0.002	<0.001	0.03	10.84	0.31	<0.01	<0.001	<0.01	<0.01	1.70	0.04	0.002	1.34
1649377	Drill Core	2.24	0.492	<0.001	0.002	<0.02	0.01	<2	0.003	<0.001	0.05	13.71	0.06	0.01	<0.001	<0.01	<0.01	1.34	0.05	0.004	1.55
1649378	Drill Core	2.94	0.141	<0.001	<0.001	<0.02	<0.01	<2	0.006	0.002	0.04	12.57	0.03	0.02	<0.001	<0.01	<0.01	1.78	0.06	0.008	1.89
1649379	Drill Core	1.40	0.038	<0.001	<0.001	<0.02	<0.01	<2	0.006	0.002	0.03	11.15	<0.02	0.01	<0.001	<0.01	<0.01	1.32	0.07	0.007	1.72
1649380	Drill Core	2.05	0.057	<0.001	<0.001	<0.02	<0.01	<2	0.006	0.002	0.03	11.21	<0.02	0.01	<0.001	<0.01	<0.01	1.33	0.07	0.007	1.75
1649381	Drill Core	2.41	0.040	<0.001	0.008	<0.02	<0.01	<2	0.004	<0.001	0.03	17.92	0.06	<0.01	<0.001	<0.01	<0.01	2.22	0.09	0.002	1.48
1649382	Drill Core	2.31	1.814	<0.001	0.005	<0.02	<0.01	<2	0.004	0.001	0.03	14.89	<0.02	<0.01	<0.001	<0.01	<0.01	1.74	0.08	0.003	1.62
1649383	Drill Core	1.66	0.008	<0.001	<0.001	<0.02	<0.01	<2	0.007	0.003	0.04	8.38	<0.02	0.02	<0.001	<0.01	<0.01	1.58	0.07	0.008	1.43
1649384	Drill Core	2.30	0.008	<0.001	<0.001	<0.02	<0.01	<2	0.007	0.002	0.04	7.96	<0.02	0.02	<0.001	<0.01	<0.01	1.62	0.09	0.008	1.42
1649385	Drill Core	2.25	0.390	<0.001	<0.001	<0.02	<0.01	<2	0.005	0.002	0.07	15.45	<0.02	0.02	<0.001	<0.01	<0.01	1.56	0.08	0.006	1.25
1649386	Pulp	0.06	0.336	<0.001	0.011	<0.02	<0.01	<2	0.013	0.005	0.14	8.34	<0.02	0.03	<0.001	<0.01	<0.01	6.68	0.09	0.017	4.21
1649387	Drill Core	2.41	1.645	<0.001	<0.001	<0.02	<0.01	<2	0.004	0.001	0.07	22.64	<0.02	<0.01	<0.001	<0.01	<0.01	1.22	0.08	0.005	1.65
1649388	Drill Core	4.43	0.931	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	0.07	28.81	0.02	<0.01	<0.001	<0.01	<0.01	1.51	0.07	<0.001	0.80



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Project: Mikwam (MK)
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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA370	MA370	MA370	MA370	MA370	FA530
		Al	Na	K	W	S	Au
Unit		%	%	%	%	%	gm/t
MDL		0.01	0.01	0.01	0.01	0.05	0.9
1649359	Drill Core	7.84	1.15	2.84	<0.01	1.93	
1649360	Drill Core	7.49	1.47	2.54	<0.01	3.00	
1649361	Drill Core	7.89	1.69	2.74	<0.01	2.68	
1649362	Drill Core	6.43	1.25	2.46	<0.01	3.18	
1649363	Drill Core	6.18	1.60	2.41	<0.01	1.09	
1649364	Drill Core	6.99	1.98	2.21	<0.01	1.76	
1649365	Drill Core	5.18	0.16	2.09	<0.01	7.69	
1649366	Drill Core	2.34	0.08	0.67	<0.01	5.07	
1649367	Drill Core	0.21	<0.01	0.04	<0.01	2.00	
1649368	Drill Core	1.03	0.02	0.34	<0.01	11.68	
1649369	Drill Core	7.67	0.08	2.25	<0.01	2.30	
1649370	Drill Core	9.40	0.10	2.89	<0.01	0.72	
1649371	Drill Core	7.03	0.72	1.82	<0.01	0.12	
1649372	Drill Core	4.89	0.07	0.79	<0.01	7.31	
1649373	Drill Core	3.82	0.59	0.18	<0.01	1.68	
1649374	Drill Core	4.80	0.79	0.40	<0.01	0.53	
1649375	Rock	0.25	0.05	0.07	<0.01	<0.05	
1649376	Drill Core	2.83	0.05	0.34	<0.01	5.23	
1649377	Drill Core	5.91	0.30	0.77	<0.01	2.38	
1649378	Drill Core	6.95	0.75	0.91	<0.01	1.21	
1649379	Drill Core	8.26	0.34	1.91	<0.01	<0.05	
1649380	Drill Core	7.34	0.17	1.62	<0.01	0.64	
1649381	Drill Core	2.84	0.03	0.45	<0.01	13.89	
1649382	Drill Core	4.48	0.03	0.67	<0.01	7.38	
1649383	Drill Core	8.22	0.12	2.63	<0.01	<0.05	
1649384	Drill Core	8.85	0.13	3.06	<0.01	<0.05	
1649385	Drill Core	6.33	0.09	2.05	<0.01	0.73	
1649386	Pulp	7.25	2.33	0.43	<0.01	0.09	
1649387	Drill Core	5.00	<0.01	0.01	<0.01	0.99	
1649388	Drill Core	1.16	<0.01	0.06	<0.01	0.99	



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CERTIFICATE OF ANALYSIS

TIM18001871.1

Method	WGHT	FA430	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	
Unit	kg	ppm	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%	
MDL	0.01	0.005	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01	
1649389	Drill Core	2.05	0.019	<0.001	<0.001	<0.02	0.01	<2	0.007	0.003	0.01	11.69	<0.02	0.02	<0.001	<0.01	<0.01	0.25	0.08	0.008	1.60
1649390	Drill Core	2.34	0.027	<0.001	0.002	<0.02	0.01	<2	0.006	0.002	0.02	15.97	0.04	<0.01	<0.001	<0.01	<0.01	0.70	0.08	0.007	1.85
1649391	Drill Core	2.44	2.489	<0.001	0.007	<0.02	0.02	4	0.004	0.001	0.07	17.10	0.24	<0.01	<0.001	<0.01	<0.01	3.54	0.10	0.003	2.34
1649392	Drill Core	2.25	1.760	<0.001	0.006	<0.02	0.04	6	0.004	0.001	0.05	14.15	0.29	0.01	<0.001	<0.01	<0.01	2.90	0.06	0.005	1.83
1649393	Drill Core	1.84	4.029	<0.001	0.005	<0.02	<0.01	<2	0.003	0.002	0.03	11.09	0.35	0.01	<0.001	<0.01	<0.01	1.49	0.06	0.002	1.09
1649394	Pulp	0.06	6.624	<0.001	0.011	<0.02	<0.01	<2	0.017	0.004	0.09	5.54	<0.02	<0.01	<0.001	<0.01	<0.01	4.80	0.03	0.042	4.25
1649395	Drill Core	2.21	1.515	<0.001	0.006	<0.02	<0.01	<2	0.003	<0.001	0.06	14.03	0.18	0.01	<0.001	<0.01	<0.01	1.36	0.08	0.003	1.44
1649396	Drill Core	2.24	0.776	<0.001	0.004	<0.02	<0.01	<2	0.003	<0.001	0.05	8.57	0.05	0.02	<0.001	<0.01	<0.01	1.71	0.07	0.002	1.01
1649397	Drill Core	2.42	1.342	<0.001	0.005	<0.02	<0.01	<2	0.003	0.001	0.08	11.19	0.23	0.02	<0.001	<0.01	<0.01	2.70	0.07	0.002	1.60
1649398	Rock	0.12	<0.005	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.93	<0.02	<0.01	<0.001	<0.01	<0.01	0.13	<0.01	<0.001	0.03
1649399	Drill Core	1.65	0.352	<0.001	0.006	<0.02	<0.01	3	0.006	0.003	0.08	11.13	0.45	0.02	<0.001	<0.01	<0.01	3.04	0.07	0.008	1.58
1649400	Drill Core	2.95	0.023	<0.001	0.003	<0.02	0.03	<2	0.006	0.002	0.06	7.58	<0.02	0.01	<0.001	<0.01	<0.01	2.63	0.04	0.042	2.68
1649401	Drill Core	2.06	0.033	<0.001	0.002	<0.02	<0.01	<2	0.015	0.003	0.09	7.86	<0.02	0.02	<0.001	<0.01	<0.01	3.69	0.03	0.036	2.76
1649402	Drill Core	2.20	0.079	<0.001	0.002	<0.02	0.02	<2	0.015	0.003	0.11	7.51	<0.02	0.03	<0.001	<0.01	<0.01	4.37	0.03	0.014	2.03
1649403	Drill Core	2.17	0.047	<0.001	<0.001	<0.02	0.02	<2	0.015	0.003	0.12	6.56	<0.02	0.04	<0.001	<0.01	<0.01	4.52	0.03	0.019	1.97
1649404	Drill Core	2.56	0.099	<0.001	0.001	<0.02	0.02	<2	0.011	0.002	0.08	8.99	<0.02	0.03	<0.001	<0.01	<0.01	3.19	0.03	0.013	1.50
1649405	Drill Core	1.94	0.035	<0.001	0.002	<0.02	0.02	<2	0.013	0.003	0.06	4.51	<0.02	0.03	<0.001	<0.01	<0.01	2.67	0.05	0.014	1.20
1649406	Drill Core	2.34	0.055	<0.001	0.002	<0.02	0.02	<2	0.006	0.002	0.11	5.14	<0.02	0.03	<0.001	<0.01	<0.01	4.96	0.04	0.008	2.21
1649407	Drill Core	2.45	0.010	<0.001	0.002	<0.02	<0.01	<2	0.001	<0.001	0.03	1.88	<0.02	0.02	<0.001	<0.01	<0.01	1.90	0.04	0.003	0.98
1649408	Drill Core	3.45	0.025	<0.001	0.003	<0.02	<0.01	<2	0.004	0.001	0.03	3.88	<0.02	0.02	<0.001	<0.01	<0.01	1.63	0.06	0.005	0.77
1649409	Drill Core	2.41	3.323	<0.001	0.003	<0.02	<0.01	<2	0.004	<0.001	0.02	8.28	0.34	<0.01	<0.001	<0.01	<0.01	0.14	0.04	0.007	0.26
1649410	Drill Core	2.77	>10	<0.001	0.011	<0.02	<0.01	4	0.004	0.002	0.01	19.05	0.95	<0.01	<0.001	<0.01	<0.01	0.32	0.08	0.002	0.69
1649411	Pulp	0.06	6.449	<0.001	0.012	<0.02	<0.01	<2	0.017	0.004	0.09	5.54	<0.02	<0.01	<0.001	<0.01	<0.01	4.86	0.03	0.041	4.30
1649412	Drill Core	2.65	>10	<0.001	0.017	<0.02	<0.01	7	0.006	0.002	0.01	22.00	1.72	<0.01	<0.001	<0.01	<0.01	0.29	0.13	0.004	0.94
1649413	Drill Core	2.48	4.402	<0.001	0.006	<0.02	<0.01	2	0.003	<0.001	0.02	12.91	0.31	<0.01	<0.001	<0.01	<0.01	0.13	0.05	0.004	0.82
1649414	Rock	0.10	<0.005	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.90	<0.02	<0.01	<0.001	<0.01	<0.01	0.02	<0.01	0.002	0.04
1649415	Drill Core	2.68	1.672	<0.001	0.003	<0.02	0.01	<2	0.005	0.002	0.02	14.41	0.17	0.01	<0.001	<0.01	<0.01	0.18	0.07	0.008	1.28
1649416	Drill Core	2.53	>10	<0.001	0.010	<0.02	<0.01	9	0.005	0.001	0.05	21.99	1.41	<0.01	<0.001	<0.01	<0.01	0.31	0.13	0.005	1.02
1649417	Drill Core	2.78	>10	<0.001	0.009	<0.02	<0.01	4	0.002	<0.001	0.09	33.10	0.85	<0.01	<0.001	<0.01	<0.01	0.40	0.15	0.003	0.59
1649418	Drill Core	1.58	7.095	<0.001	0.004	<0.02	<0.01	3	0.002	<0.001	0.05	24.17	0.21	<0.01	<0.001	<0.01	<0.01	0.31	0.11	0.004	0.71



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Project: Mikwam (MK)
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CERTIFICATE OF ANALYSIS

TIM18001871.1

Method	Analyte	MA370	MA370	MA370	MA370	MA370	FA530
		Al	Na	K	W	S	Au
Unit		%	%	%	%	%	gm/t
MDL		0.01	0.01	0.01	0.01	0.05	0.9
1649389	Drill Core	8.79	3.36	0.25	<0.01	<0.05	
1649390	Drill Core	7.14	0.79	0.69	<0.01	3.57	
1649391	Drill Core	4.59	0.11	0.84	<0.01	7.60	
1649392	Drill Core	4.39	0.10	0.89	<0.01	6.75	
1649393	Drill Core	3.09	0.42	0.37	<0.01	5.87	
1649394	Pulp	5.61	1.40	0.66	<0.01	0.77	
1649395	Drill Core	4.13	0.94	0.36	<0.01	6.53	
1649396	Drill Core	2.86	1.20	0.12	<0.01	5.26	
1649397	Drill Core	3.70	1.00	0.44	<0.01	6.13	
1649398	Rock	0.18	0.06	0.04	<0.01	<0.05	
1649399	Drill Core	3.60	0.58	0.91	<0.01	8.07	
1649400	Drill Core	6.62	0.14	1.91	<0.01	1.66	
1649401	Drill Core	6.57	0.84	1.76	<0.01	3.80	
1649402	Drill Core	6.22	2.25	1.49	<0.01	6.76	
1649403	Drill Core	7.05	2.80	1.63	<0.01	5.88	
1649404	Drill Core	6.48	2.48	1.53	<0.01	9.14	
1649405	Drill Core	6.76	2.60	1.61	<0.01	4.13	
1649406	Drill Core	7.34	3.27	1.48	<0.01	4.52	
1649407	Drill Core	6.76	1.65	2.31	<0.01	1.34	
1649408	Drill Core	7.00	1.81	2.05	<0.01	1.97	
1649409	Drill Core	1.45	0.04	0.29	<0.01	4.13	
1649410	Drill Core	3.65	0.37	0.59	<0.01	13.74	13.4
1649411	Pulp	5.67	1.42	0.66	<0.01	0.77	
1649412	Drill Core	3.84	0.03	0.56	<0.01	14.83	15.9
1649413	Drill Core	4.80	0.57	0.78	<0.01	4.29	
1649414	Rock	0.22	0.06	0.06	<0.01	<0.05	
1649415	Drill Core	7.22	1.26	0.68	<0.01	1.34	
1649416	Drill Core	4.33	0.27	0.31	<0.01	9.13	28.5
1649417	Drill Core	1.51	0.25	0.02	<0.01	7.70	12.0
1649418	Drill Core	3.16	0.11	0.64	<0.01	2.59	



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CERTIFICATE OF ANALYSIS

TIM18001871.1

Method	WGHT	FA430	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	
Unit	kg	ppm	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%	
MDL	0.01	0.005	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01	
1649419	Drill Core	2.50	1.043	<0.001	0.004	<0.02	0.01	<2	0.003	0.001	0.03	16.05	0.11	<0.01	<0.001	<0.01	<0.01	0.19	0.07	0.006	1.59
1649420	Drill Core	2.50	4.519	<0.001	0.005	<0.02	0.01	<2	0.004	0.002	0.06	18.03	0.38	<0.01	<0.001	<0.01	<0.01	0.18	0.06	0.005	1.33
1649421	Drill Core	2.46	7.044	<0.001	0.007	<0.02	<0.01	<2	0.003	0.001	0.06	17.43	0.46	<0.01	<0.001	<0.01	<0.01	0.34	0.08	0.007	0.87
1649422	Drill Core	3.10	0.263	<0.001	0.003	<0.02	<0.01	<2	<0.001	<0.001	0.09	33.15	0.23	<0.01	<0.001	<0.01	<0.01	0.45	0.15	0.003	0.55
1649423	Drill Core	2.24	0.643	<0.001	0.003	<0.02	<0.01	<2	0.005	0.002	0.08	15.24	0.08	0.01	<0.001	<0.01	<0.01	0.90	0.07	0.007	1.30
1649424	Drill Core	2.01	9.049	<0.001	0.008	<0.02	<0.01	3	0.003	0.001	0.04	18.06	1.33	<0.01	<0.001	<0.01	<0.01	0.58	0.06	0.004	0.65
1649425	Drill Core	2.53	>10	<0.001	0.007	<0.02	<0.01	7	0.001	<0.001	0.05	22.19	2.03	<0.01	<0.001	<0.01	<0.01	0.30	0.06	0.003	0.23
1649426	Drill Core	2.44	1.455	<0.001	0.005	<0.02	0.01	<2	0.002	<0.001	0.04	15.32	0.35	0.02	<0.001	<0.01	<0.01	0.91	0.07	0.007	1.60
1649427	Drill Core	2.25	1.502	<0.001	0.003	<0.02	<0.01	<2	0.003	<0.001	0.05	9.62	0.30	0.02	<0.001	<0.01	<0.01	1.49	0.05	0.004	0.99
1649428	Drill Core	2.17	0.720	<0.001	0.002	<0.02	<0.01	<2	0.003	<0.001	0.06	6.73	0.08	0.01	<0.001	<0.01	<0.01	1.77	0.04	0.004	0.87
1649429	Drill Core	2.22	0.010	<0.001	0.002	<0.02	<0.01	<2	0.005	0.002	0.04	5.64	<0.02	0.02	<0.001	<0.01	<0.01	1.35	0.05	0.005	1.11
1649430	Drill Core	2.11	0.030	<0.001	0.004	<0.02	<0.01	<2	0.005	0.002	0.06	8.48	<0.02	0.02	<0.001	<0.01	<0.01	1.90	0.06	0.005	1.44
1649431	Pulp	0.07	0.322	<0.001	0.010	<0.02	<0.01	<2	0.012	0.005	0.14	8.07	<0.02	0.03	<0.001	<0.01	<0.01	6.61	0.09	0.016	4.38
1649432	Drill Core	2.24	2.675	<0.001	0.004	<0.02	<0.01	<2	0.004	0.001	0.06	9.39	0.05	0.02	<0.001	<0.01	<0.01	1.26	0.04	0.005	0.98
1649433	Drill Core	2.31	2.584	<0.001	0.005	<0.02	0.01	<2	0.006	0.001	0.08	7.58	0.14	0.04	<0.001	<0.01	<0.01	2.90	0.05	0.009	1.12
1649434	Drill Core	2.23	0.033	<0.001	0.003	<0.02	<0.01	<2	0.006	0.002	0.08	3.74	0.03	0.05	<0.001	<0.01	<0.01	3.53	0.06	0.012	1.50
1649435	Drill Core	2.19	0.011	<0.001	0.004	<0.02	<0.01	<2	0.007	0.002	0.08	4.05	<0.02	0.05	<0.001	<0.01	<0.01	3.04	0.08	0.013	1.80
1649505	Drill Core	2.17	0.044	<0.001	0.003	<0.02	0.02	<2	0.005	0.002	0.05	4.87	<0.02	0.03	<0.001	<0.01	<0.01	2.13	0.05	0.003	1.10
1649506	Drill Core	2.64	0.025	<0.001	0.006	<0.02	<0.01	<2	0.007	0.001	0.10	5.86	<0.02	0.03	<0.001	<0.01	<0.01	3.87	0.05	0.005	1.89
1649507	Drill Core	2.53	0.037	<0.001	0.004	<0.02	<0.01	<2	0.005	0.002	0.04	3.91	<0.02	0.03	<0.001	<0.01	<0.01	1.96	0.05	0.005	0.97
1649508	Drill Core	2.02	0.047	<0.001	0.005	<0.02	<0.01	<2	0.006	0.003	0.04	3.99	<0.02	0.03	<0.001	<0.01	<0.01	1.84	0.06	0.005	0.92



Bureau Veritas Commodities Canada Ltd.

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625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: October 18, 2018

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CERTIFICATE OF ANALYSIS

TIM18001871.1

Method	Analyte	MA370	MA370	MA370	MA370	MA370	FA530
		Al	Na	K	W	S	Au
Unit		%	%	%	%	%	gm/t
MDL		0.01	0.01	0.01	0.01	0.05	0.9
1649419	Drill Core	7.72	0.06	1.75	<0.01	1.81	
1649420	Drill Core	6.03	0.11	1.35	<0.01	5.39	
1649421	Drill Core	4.21	0.49	0.78	<0.01	8.04	
1649422	Drill Core	1.50	0.82	0.04	<0.01	1.94	
1649423	Drill Core	6.11	1.21	0.85	<0.01	1.44	
1649424	Drill Core	3.35	0.59	0.72	<0.01	11.44	
1649425	Drill Core	0.65	0.04	0.18	<0.01	16.20	18.7
1649426	Drill Core	6.76	1.62	0.76	<0.01	3.70	
1649427	Drill Core	4.44	0.31	1.35	<0.01	2.55	
1649428	Drill Core	3.80	0.08	1.12	<0.01	0.74	
1649429	Drill Core	7.15	0.60	2.38	<0.01	0.11	
1649430	Drill Core	6.35	0.61	1.58	<0.01	0.41	
1649431	Pulp	7.24	2.35	0.45	<0.01	0.08	
1649432	Drill Core	5.95	0.60	1.72	<0.01	1.65	
1649433	Drill Core	4.02	0.97	1.39	<0.01	3.31	
1649434	Drill Core	6.29	1.76	1.99	<0.01	0.32	
1649435	Drill Core	7.32	2.08	2.00	<0.01	0.23	
1649505	Drill Core	7.03	2.53	1.63	<0.01	3.42	
1649506	Drill Core	6.84	1.90	1.97	<0.01	4.79	
1649507	Drill Core	6.99	2.25	1.98	<0.01	3.83	
1649508	Drill Core	7.51	2.35	2.19	<0.01	3.92	



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Project: Mikwam (MK)
Report Date: October 18, 2018

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QUALITY CONTROL REPORT

TIM18001871.1

Method	WGHT	FA430	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	
Unit	kg	ppm	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%	
MDL	0.01	0.005	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01	
Pulp Duplicates																					
1649374	Drill Core	2.55	0.020	<0.001	<0.001	<0.02	<0.01	<2	0.003	0.001	0.11	17.70	<0.02	0.02	<0.001	<0.01	<0.01	2.45	0.07	0.004	1.64
REP 1649374	QC			<0.001	<0.001	<0.02	<0.01	<2	0.003	0.001	0.11	17.66	<0.02	0.02	<0.001	<0.01	<0.01	2.48	0.07	0.004	1.64
1649375	Rock	0.12	<0.005	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	1.31	<0.02	<0.01	<0.001	<0.01	<0.01	0.08	<0.01	<0.001	0.03
REP 1649375	QC		<0.005																		
1649407	Drill Core	2.45	0.010	<0.001	0.002	<0.02	<0.01	<2	0.001	<0.001	0.03	1.88	<0.02	0.02	<0.001	<0.01	<0.01	1.90	0.04	0.003	0.98
REP 1649407	QC			<0.001	0.001	<0.02	<0.01	<2	<0.001	<0.001	0.03	1.87	<0.02	0.02	<0.001	<0.01	<0.01	1.87	0.04	<0.001	0.98
REP 1649416	QC																				
Core Reject Duplicates																					
1649382	Drill Core	2.31	1.814	<0.001	0.005	<0.02	<0.01	<2	0.004	0.001	0.03	14.89	<0.02	<0.01	<0.001	<0.01	<0.01	1.74	0.08	0.003	1.62
DUP 1649382	QC		1.869	<0.001	0.005	<0.02	<0.01	<2	0.004	0.001	0.03	15.05	<0.02	<0.01	<0.001	<0.01	<0.01	1.85	0.08	0.004	1.69
1649416	Drill Core	2.53	>10	<0.001	0.010	<0.02	<0.01	9	0.005	0.001	0.05	21.99	1.41	<0.01	<0.001	<0.01	<0.01	0.31	0.13	0.005	1.02
DUP 1649416	QC		>10	<0.001	0.010	<0.02	<0.01	9	0.005	0.001	0.05	22.39	1.36	<0.01	<0.001	<0.01	<0.01	0.31	0.12	0.005	1.07
Reference Materials																					
STD CDN-ME-14	Standard			0.002	1.255	0.50	3.10	42	0.002	0.017	0.09	18.05	<0.02	<0.01	0.009	<0.01	<0.01	0.75	0.02	<0.001	1.30
STD CDN-ME-9	Standard			<0.001	0.656	<0.02	0.01	<2	0.920	0.018	0.12	13.91	<0.02	0.03	<0.001	<0.01	<0.01	4.17	0.06	0.029	4.13
STD CDN-ME-14	Standard			0.001	1.225	0.52	3.15	43	0.002	0.017	0.09	18.26	<0.02	<0.01	0.009	<0.01	0.01	0.75	0.02	0.001	1.25
STD CDN-ME-9	Standard			<0.001	0.664	<0.02	0.01	4	0.912	0.018	0.12	14.13	<0.02	0.03	<0.001	<0.01	<0.01	4.37	0.06	0.032	3.97
STD CDN-ME-14	Standard			0.002	1.238	0.49	3.10	41	0.002	0.017	0.09	17.80	<0.02	<0.01	0.008	<0.01	<0.01	0.75	0.02	0.002	1.27
STD CDN-ME-9	Standard			<0.001	0.647	<0.02	0.01	8	0.940	0.017	0.13	13.60	<0.02	0.03	<0.001	<0.01	<0.01	4.27	0.06	0.028	3.82
STD OXC145	Standard		0.211																		
STD OXC145	Standard		0.214																		
STD OXC145	Standard		0.208																		
STD OXC145	Standard		0.203																		
STD OXH139	Standard		1.255																		
STD OXH139	Standard		1.311																		
STD OXH139	Standard		1.264																		
STD OXH139	Standard		1.258																		
STD OXN134	Standard		7.430																		



Bureau Veritas Commodities Canada Ltd.

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Project: Mikwam (MK)
Report Date: October 18, 2018

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QUALITY CONTROL REPORT

TIM18001871.1

Method	Analyte	MA370	MA370	MA370	MA370	MA370	FA530
		Al	Na	K	W	S	Au
Unit		%	%	%	%	%	gm/t
MDL		0.01	0.01	0.01	0.01	0.05	0.9
Pulp Duplicates							
1649374	Drill Core	4.80	0.79	0.40	<0.01	0.53	
REP 1649374	QC	4.85	0.79	0.40	<0.01	0.53	
1649375	Rock	0.25	0.05	0.07	<0.01	<0.05	
REP 1649375	QC						
1649407	Drill Core	6.76	1.65	2.31	<0.01	1.34	
REP 1649407	QC	6.61	1.65	2.31	<0.01	1.35	
REP 1649416	QC						30.6
Core Reject Duplicates							
1649382	Drill Core	4.48	0.03	0.67	<0.01	7.38	
DUP 1649382	QC	4.53	0.03	0.68	<0.01	7.35	
1649416	Drill Core	4.33	0.27	0.31	<0.01	9.13	28.5
DUP 1649416	QC	4.57	0.29	0.33	<0.01	8.93	28.0
Reference Materials							
STD CDN-ME-14	Standard	4.49	0.53	1.76	<0.01	16.12	
STD CDN-ME-9	Standard	6.69	1.88	0.65	<0.01	2.50	
STD CDN-ME-14	Standard	4.41	0.54	1.68	<0.01	15.87	
STD CDN-ME-9	Standard	6.71	1.88	0.62	<0.01	2.55	
STD CDN-ME-14	Standard	4.33	0.51	1.65	<0.01	15.74	
STD CDN-ME-9	Standard	6.48	1.75	0.62	<0.01	2.56	
STD OXC145	Standard						
STD OXC145	Standard						
STD OXC145	Standard						
STD OXC145	Standard						
STD OXH139	Standard						
STD OXH139	Standard						
STD OXH139	Standard						
STD OXH139	Standard						
STD OXN134	Standard						



QUALITY CONTROL REPORT

TIM18001871.1

		WGHT	FA430	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg
		kg	ppm	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.005	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01
STD OXN134	Standard		7.788																		
STD OXN134	Standard		7.639																		
STD OXN134	Standard		7.260																		
STD OXP116	Standard																				
STD OXQ90	Standard																				
STD OXQ90	Standard																				
STD OXC145 Expected			0.212																		
STD OXN134 Expected			7.667																		
STD OXH139 Expected			1.312																		
STD CDN-ME-14 Expected					1.221	0.495	3.17	43.5	0.002	0.0172	0.0883	18.04	0.0088		0.0088		0.0094	0.747	0.0147	0.0014	1.28
STD CDN-ME-9 Expected					0.654		0.012		0.912	0.0169	0.121	13.84		0.03				4.21	0.06	0.0284	4.05
STD OXP116 Expected																					
STD OXQ90 Expected																					
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank			<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.02	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01
BLK	Blank			<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.02	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01
BLK	Blank			<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.02	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	0.001	<0.01
BLK	Blank																				
Prep Wash																					
ROCK-TIM	Prep Blank		<0.005	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	0.06	2.13	<0.02	0.02	<0.001	<0.01	<0.01	1.42	0.04	<0.001	0.52
ROCK-TIM	Prep Blank		<0.005	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	0.07	2.20	<0.02	0.02	<0.001	<0.01	<0.01	1.55	0.04	<0.001	0.52



Bureau Veritas Commodities Canada Ltd.
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625 Howe Street, Suite 1020
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Project: Mikwam (MK)
Report Date: October 18, 2018

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QUALITY CONTROL REPORT

TIM18001871.1

		MA370	MA370	MA370	MA370	MA370	FA530
		Al	Na	K	W	S	Au
		%	%	%	%	%	gm/t
		0.01	0.01	0.01	0.01	0.05	0.9
STD OXN134	Standard						
STD OXN134	Standard						
STD OXN134	Standard						
STD OXP116	Standard						15.2
STD OXQ90	Standard						25.0
STD OXQ90	Standard						24.9
STD OXC145 Expected							
STD OXN134 Expected							
STD OXH139 Expected							
STD CDN-ME-14 Expected		4.47	0.53	1.7		16.14	
STD CDN-ME-9 Expected		6.74	1.86	0.616		2.58	
STD OXP116 Expected							14.92
STD OXQ90 Expected							24.88
BLK	Blank						
BLK	Blank						
BLK	Blank						
BLK	Blank						
BLK	Blank						
BLK	Blank						
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.05	
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.05	
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.05	
BLK	Blank						<0.9
Prep Wash							
ROCK-TIM	Prep Blank	6.90	3.60	1.73	<0.01	0.07	
ROCK-TIM	Prep Blank	7.02	3.52	1.74	<0.01	0.06	



BUREAU VERITAS MINERAL LABORATORIES
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625 Howe Street, Suite 1020
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Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: September 17, 2018
Report Date: October 13, 2018
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CERTIFICATE OF ANALYSIS

TIM18001872.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID:
P.O. Number
Number of Samples: 4

SAMPLE DISPOSAL

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	4	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	4	Sort, label and box pulps			TIM
FA430	4	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	4	Environmental disposal charge-Fire assay lead waste			TIM
MA370	4	4-Acid Digestion ICP-ES Finish	0.5	Completed	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: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi



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
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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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Client: Aurelius Minerals
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CERTIFICATE OF ANALYSIS

TIM18001872.1

Method	WGHT	FA430	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	
Unit	kg	ppm	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%	
MDL	0.01	0.005	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01	
1702951	Drill Core	2.41	0.008	<0.001	0.005	<0.02	0.01	<2	0.007	0.002	0.07	4.61	<0.02	0.04	<0.001	<0.01	<0.01	2.26	0.07	0.013	1.38
1702952	Drill Core	2.30	0.005	<0.001	0.005	<0.02	<0.01	<2	0.008	0.002	0.08	4.55	<0.02	0.04	<0.001	<0.01	<0.01	2.53	0.07	0.014	1.52
1702953	Drill Core	1.91	0.072	<0.001	0.005	<0.02	0.02	<2	0.007	0.002	0.09	4.78	<0.02	0.04	<0.001	<0.01	<0.01	2.77	0.07	0.015	1.62
1702954	Drill Core	2.42	0.014	<0.001	0.005	<0.02	0.03	<2	0.008	0.002	0.08	5.04	<0.02	0.04	<0.001	<0.01	<0.01	2.50	0.07	0.012	1.60



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625 Howe Street, Suite 1020
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Project: Mikwam (MK)
Report Date: October 13, 2018

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CERTIFICATE OF ANALYSIS

TIM18001872.1

	Method	MA370	MA370	MA370	MA370	MA370
		Al	Na	K	W	S
Analyte		%	%	%	%	%
Unit						
MDL		0.01	0.01	0.01	0.01	0.05
1702951	Drill Core	7.07	2.90	1.31	<0.01	0.20
1702952	Drill Core	7.04	2.74	1.42	<0.01	0.23
1702953	Drill Core	7.10	2.78	1.34	<0.01	0.30
1702954	Drill Core	7.12	2.35	1.45	<0.01	0.25



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QUALITY CONTROL REPORT

TIM18001872.1

Method	WGHT	FA430	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	
Unit	kg	ppm	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%	
MDL	0.01	0.005	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01	
Reference Materials																					
STD CDN-ME-14	Standard		0.002	1.211	0.48	3.15	44	0.002	0.017	0.09	18.31	<0.02	<0.01	0.009	<0.01	<0.01	0.77	0.02	0.001	1.27	
STD CDN-ME-9	Standard		<0.001	0.648	<0.02	0.01	4	0.891	0.017	0.12	14.11	<0.02	0.03	<0.001	<0.01	<0.01	4.36	0.06	0.028	3.97	
STD OXC145	Standard		0.204																		
STD OXH139	Standard		1.277																		
STD OXN134	Standard		7.691																		
STD OXC145 Expected			0.212																		
STD OXN134 Expected			7.667																		
STD OXH139 Expected			1.312																		
STD CDN-ME-14 Expected				1.221	0.495	3.17	43.5	0.002	0.0172	0.0883	18.04	0.0088		0.0088		0.0094	0.747	0.0147	0.0014	1.28	
STD CDN-ME-9 Expected				0.654		0.012		0.912	0.0169	0.121	13.84		0.03				4.21	0.06	0.0284	4.05	
BLK	Blank		<0.005																		
BLK	Blank		<0.005																		
BLK	Blank		<0.001	0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.02	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01	
Prep Wash																					
ROCK-TIM	Prep Blank		0.014	<0.001	0.002	<0.02	<0.01	<2	<0.001	<0.001	0.07	2.35	<0.02	0.02	<0.001	<0.01	<0.01	1.58	0.04	<0.001	0.55



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: October 13, 2018

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Part: 2 of 2

QUALITY CONTROL REPORT

TIM18001872.1

Method		MA370	MA370	MA370	MA370	MA370
Analyte		Al	Na	K	W	S
Unit		%	%	%	%	%
MDL		0.01	0.01	0.01	0.01	0.05
Reference Materials						
STD CDN-ME-14	Standard	4.44	0.53	1.67	<0.01	15.95
STD CDN-ME-9	Standard	6.65	1.83	0.62	<0.01	2.61
STD OXC145	Standard					
STD OXH139	Standard					
STD OXN134	Standard					
STD OXC145 Expected						
STD OXN134 Expected						
STD OXH139 Expected						
STD CDN-ME-14 Expected		4.47	0.53	1.7		16.14
STD CDN-ME-9 Expected		6.74	1.86	0.616		2.58
BLK	Blank					
BLK	Blank					
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.05
Prep Wash						
ROCK-TIM	Prep Blank	7.33	3.56	1.76	<0.01	0.08



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: September 20, 2018
Report Date: October 18, 2018
Page: 1 of 5

CERTIFICATE OF ANALYSIS

TIM18001997.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID:
P.O. Number: Batch # 8
Number of Samples: 103

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.


Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	103	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	10	Sort, label and box pulps			TIM
FA430	103	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	103	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS


JEFFREY CANNON
Geochemistry Department Supervisor

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: Aurelius Minerals
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Project: Mikwam (MK)
Report Date: October 18, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18001997.1

Method	Analyte	WGHT	FA430
		Wgt	Au
Unit		kg	ppm
MDL		0.01	0.005
1649436	Drill Core	1.96	<0.005
1649437	Drill Core	1.39	<0.005
1649438	Drill Core	2.02	<0.005
1649439	Rock	0.15	<0.005
1649440	Drill Core	1.59	<0.005
1649441	Drill Core	1.80	<0.005
1649442	Drill Core	2.03	<0.005
1649443	Drill Core	1.77	<0.005
1649444	Drill Core	1.75	0.093
1649445	Pulp	0.07	0.333
1649446	Drill Core	1.06	0.061
1649447	Drill Core	1.69	0.017
1649448	Drill Core	1.91	0.012
1649449	Drill Core	1.89	<0.005
1649450	Drill Core	2.25	<0.005
1649451	Pulp	0.06	6.686
1649452	Drill Core	2.05	0.028
1649453	Drill Core	2.40	0.006
1649454	Drill Core	2.12	0.016
1649455	Drill Core	2.22	0.208
1649456	Drill Core	2.09	0.814
1649457	Drill Core	2.35	3.136
1649458	Pulp	0.06	6.767
1649459	Drill Core	2.79	1.011
1649460	Drill Core	1.40	0.058
1649461	Drill Core	1.28	0.606
1649462	Drill Core	2.44	2.775
1649463	Drill Core	1.88	0.561
1649464	Drill Core	2.14	1.040
1649465	Drill Core	2.45	0.676



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625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: October 18, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18001997.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1649466	Drill Core	2.16 0.028
1649467	Drill Core	2.15 0.014
1649468	Rock	0.12 <0.005
1649469	Drill Core	2.38 0.022
1649470	Drill Core	2.15 0.014
1649471	Drill Core	2.16 0.030
1649472	Drill Core	1.87 0.011
1649473	Drill Core	2.30 0.016
1649474	Pulp	0.07 0.329
1649475	Drill Core	2.27 <0.005
1649476	Drill Core	2.12 0.007
1649477	Drill Core	2.19 <0.005
1649478	Drill Core	2.25 0.007
1649479	Drill Core	2.12 0.006
1649480	Pulp	0.06 6.707
1649481	Drill Core	2.43 0.007
1649482	Drill Core	2.23 <0.005
1649483	Drill Core	2.35 <0.005
1649484	Drill Core	1.90 0.008
1649485	Drill Core	2.23 0.014
1649486	Drill Core	2.31 4.698
1649487	Pulp	0.07 0.324
1649488	Drill Core	2.37 0.040
1649489	Drill Core	2.16 0.086
1649490	Drill Core	2.09 0.206
1649491	Drill Core	2.02 0.061
1649492	Drill Core	1.51 0.089
1649493	Drill Core	1.39 6.867
1649494	Rock	0.12 <0.005
1649495	Drill Core	2.34 5.465



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
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Project: Mikwam (MK)
Report Date: October 18, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18001997.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1649496	Drill Core	2.22 4.476
1649497	Drill Core	2.25 2.650
1649498	Drill Core	2.44 8.309
1649499	Drill Core	2.29 4.221
1649500	Pulp	0.07 0.330
1649501	Drill Core	2.21 2.042
1649502	Drill Core	2.27 1.499
1649503	Drill Core	2.09 0.330
1649504	Drill Core	2.10 0.319
1649509	Drill Core	2.10 1.915
1649510	Rock	0.11 <0.005
1649511	Drill Core	2.13 0.109
1649512	Drill Core	2.08 0.046
1649513	Drill Core	2.21 0.042
1649514	Drill Core	2.35 0.072
1649515	Drill Core	2.16 0.030
1649516	Drill Core	2.33 0.043
1649517	Pulp	0.07 6.455
1649518	Drill Core	2.24 0.081
1649519	Drill Core	2.40 0.090
1649520	Drill Core	2.30 0.092
1649521	Drill Core	1.88 0.078
1649522	Rock	0.12 <0.005
1649523	Drill Core	2.66 0.039
1649524	Drill Core	2.48 0.035
1649525	Drill Core	2.38 0.080
1649526	Drill Core	2.44 0.105
1649527	Drill Core	2.27 0.037
1649528	Drill Core	1.53 0.018
1649529	Drill Core	2.71 0.076



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Project: Mikwam (MK)
Report Date: October 18, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18001997.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1649530	Pulp	0.08 6.494
1649531	Drill Core	2.13 0.042
1649532	Drill Core	2.28 0.049
1649533	Drill Core	2.12 0.046
1649534	Drill Core	2.33 0.067
1649535	Drill Core	2.16 0.071
1649536	Drill Core	2.48 0.219
1649537	Drill Core	2.44 0.150
1649538	Drill Core	2.42 2.155
1649539	Drill Core	2.16 0.285
1649540	Drill Core	2.43 0.007
1649541	Drill Core	2.05 0.037
1649542	Drill Core	2.39 0.013



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Project: Mikwam (MK)
Report Date: October 18, 2018

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Part: 1 of 1

QUALITY CONTROL REPORT

TIM18001997.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
Pulp Duplicates		
1649450	Drill Core	2.25 <0.005
REP 1649450	QC	<0.005
1649452	Drill Core	2.05 0.028
REP 1649452	QC	0.025
1649523	Drill Core	2.66 0.039
REP 1649523	QC	0.038
Core Reject Duplicates		
1649464	Drill Core	2.14 1.040
DUP 1649464	QC	1.041
1649498	Drill Core	2.44 8.309
DUP 1649498	QC	7.513
1649536	Drill Core	2.48 0.219
DUP 1649536	QC	0.232
Reference Materials		
STD OXC145	Standard	0.211
STD OXC145	Standard	0.206
STD OXC145	Standard	0.208
STD OXC145	Standard	0.213
STD OXC145	Standard	0.197
STD OXC145	Standard	0.213
STD OXH139	Standard	1.329
STD OXH139	Standard	1.242
STD OXH139	Standard	1.264
STD OXH139	Standard	1.303
STD OXH139	Standard	1.356
STD OXH139	Standard	1.293
STD OXN134	Standard	7.433
STD OXN134	Standard	7.450



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Project: Mikwam (MK)
Report Date: October 18, 2018

Page: 2 of 2

Part: 1 of 1

QUALITY CONTROL REPORT

TIM18001997.1

		WGHT	FA430
		Wgt	Au
		kg	ppm
		0.01	0.005
STD OXN134	Standard		7.639
STD OXN134	Standard		7.766
STD OXN134	Standard		7.679
STD OXC145 Expected			0.212
STD OXN134 Expected			7.667
STD OXH139 Expected			1.312
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		0.006
BLK	Blank		0.008
Prep Wash			
ROCK-TIM	Prep Blank		<0.005
ROCK-TIM	Prep Blank		<0.005



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PHONE (604) 253-3158

Client:

Aurelius Minerals

625 Howe Street, Suite 1020

Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan

Receiving Lab: Canada-Timmins

Received: September 26, 2018

Report Date: October 24, 2018

Page: 1 of 4

CERTIFICATE OF ANALYSIS

TIM18002059.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
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.

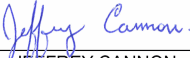
Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	75	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	5	Sort, label and box pulps			TIM
FA430	80	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	80	Environmental disposal charge-Fire assay lead waste			TIM
MA370	80	4-Acid Digestion ICP-ES Finish	0.5	Completed	VAN

ADDITIONAL COMMENTS


JEFFREY CANNON
Geochemistry Department Supervisor

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 Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Project: Mikwam (MK)
Report Date: October 24, 2018

Page: 2 of 4

Part: 1 of 2

CERTIFICATE OF ANALYSIS

TIM18002059.1

Method	WGHT	FA430	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	
Unit	kg	ppm	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%	
MDL	0.01	0.005	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01	
1649594	Drill Core	2.35	0.007	<0.001	0.005	<0.02	<0.01	<2	0.006	0.003	0.05	4.16	<0.02	0.02	<0.001	<0.01	<0.01	2.10	0.06	0.005	1.13
1649595	Drill Core	2.66	0.024	<0.001	0.003	<0.02	<0.01	<2	0.006	0.003	0.06	5.28	<0.02	0.03	<0.001	<0.01	<0.01	2.71	0.05	0.004	1.27
1649596	Drill Core	2.52	0.013	<0.001	0.003	<0.02	<0.01	<2	0.006	0.002	0.07	4.13	<0.02	0.03	<0.001	<0.01	<0.01	3.42	0.05	0.006	1.58
1649597	Drill Core	2.42	0.016	<0.001	0.004	<0.02	<0.01	<2	0.006	0.003	0.05	5.20	<0.02	0.03	<0.001	<0.01	<0.01	2.15	0.06	0.003	1.01
1649598	Drill Core	2.40	0.024	<0.001	0.004	<0.02	<0.01	<2	0.006	0.003	0.05	5.34	<0.02	0.03	<0.001	<0.01	<0.01	2.66	0.06	0.004	1.28
1649599	Drill Core	2.47	0.018	<0.001	0.003	<0.02	<0.01	<2	0.006	0.003	0.07	5.39	<0.02	0.03	<0.001	<0.01	<0.01	2.89	0.06	0.004	1.37
1649600	Rock	0.10	<0.005	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.70	<0.02	<0.01	<0.001	<0.01	<0.01	0.04	<0.01	<0.001	0.02
1649601	Drill Core	2.42	0.014	<0.001	0.003	<0.02	<0.01	<2	0.006	0.003	0.05	4.89	<0.02	0.03	<0.001	<0.01	<0.01	2.12	0.05	0.004	1.02
1649602	Drill Core	2.21	0.009	<0.001	0.012	<0.02	<0.01	<2	0.006	0.002	0.04	3.99	<0.02	0.03	<0.001	<0.01	<0.01	2.15	0.05	0.004	1.03
1649603	Pulp	0.06	0.334	<0.001	0.010	<0.02	<0.01	<2	0.012	0.005	0.14	8.36	<0.02	0.03	<0.001	<0.01	<0.01	6.95	0.09	0.016	4.26
1649604	Drill Core	2.40	0.012	<0.001	0.003	<0.02	<0.01	<2	0.004	0.002	0.05	3.38	<0.02	0.04	<0.001	<0.01	<0.01	2.58	0.05	0.003	1.23
1649605	Drill Core	2.64	0.014	<0.001	0.003	<0.02	0.02	<2	0.006	0.002	0.07	3.19	<0.02	0.04	<0.001	<0.01	<0.01	3.32	0.04	0.004	1.60
1649606	Drill Core	2.54	0.014	<0.001	0.004	<0.02	0.02	<2	0.005	0.002	0.09	5.36	<0.02	0.04	<0.001	<0.01	<0.01	3.89	0.04	0.004	1.85
1649607	Drill Core	2.16	0.019	<0.001	0.005	<0.02	0.02	<2	0.005	0.002	0.02	6.59	<0.02	0.04	<0.001	<0.01	<0.01	1.41	0.03	0.002	0.66
1649608	Drill Core	2.38	0.036	<0.001	0.008	<0.02	0.01	<2	0.004	0.002	0.02	11.76	<0.02	0.04	<0.001	<0.01	<0.01	0.85	0.03	0.003	0.44
1649609	Drill Core	2.31	0.015	<0.001	0.004	<0.02	<0.01	<2	0.006	0.002	0.03	5.58	<0.02	0.04	<0.001	<0.01	<0.01	1.69	0.05	0.003	0.83
1649610	Drill Core	2.55	0.015	<0.001	0.005	<0.02	<0.01	<2	0.007	0.003	0.05	4.82	<0.02	0.03	<0.001	<0.01	<0.01	2.25	0.07	0.005	1.09
1649611	Drill Core	2.37	0.008	<0.001	0.004	<0.02	0.01	<2	0.005	0.002	0.11	3.76	<0.02	0.04	<0.001	<0.01	<0.01	4.00	0.06	0.005	1.92
1649612	Drill Core	2.38	0.008	<0.001	0.004	<0.02	<0.01	<2	0.007	0.003	0.05	4.76	<0.02	0.03	<0.001	<0.01	<0.01	2.00	0.06	0.004	0.98
1649613	Drill Core	1.76	0.009	<0.001	0.002	<0.02	0.02	<2	0.003	0.001	0.03	2.19	<0.02	0.02	<0.001	<0.01	<0.01	1.42	0.03	0.002	0.77
1649614	Drill Core	2.77	0.007	<0.001	0.002	<0.02	<0.01	<2	0.002	<0.001	0.04	2.23	<0.02	0.03	<0.001	<0.01	<0.01	1.96	0.04	0.002	0.90
1649615	Drill Core	2.62	0.005	<0.001	0.005	<0.02	<0.01	<2	0.002	<0.001	0.04	2.21	<0.02	0.03	<0.001	<0.01	<0.01	1.78	0.04	0.002	0.74
1649616	Drill Core	2.25	0.010	<0.001	0.003	<0.02	0.03	<2	0.003	0.002	0.04	2.73	<0.02	0.03	<0.001	<0.01	<0.01	1.69	0.04	0.003	0.82
1649617	Drill Core	2.61	0.014	<0.001	0.002	<0.02	0.01	<2	0.004	0.002	0.05	2.86	<0.02	0.03	<0.001	<0.01	<0.01	1.88	0.05	0.003	0.85
1649618	Drill Core	2.74	0.012	<0.001	0.002	<0.02	<0.01	<2	0.004	0.002	0.05	2.96	<0.02	0.03	<0.001	<0.01	<0.01	1.98	0.05	0.004	0.90
1649619	Pulp	0.05	6.565	<0.001	0.012	<0.02	<0.01	<2	0.017	0.003	0.09	5.46	<0.02	<0.01	<0.001	<0.01	<0.01	4.76	0.03	0.040	4.29
1649620	Drill Core	1.89	0.013	<0.001	0.002	<0.02	<0.01	<2	0.005	0.002	0.05	3.27	<0.02	0.02	<0.001	<0.01	<0.01	1.77	0.05	0.004	0.82
1649621	Drill Core	2.37	0.019	<0.001	0.003	<0.02	0.01	<2	0.005	0.002	0.05	3.38	<0.02	0.03	<0.001	<0.01	<0.01	1.81	0.06	0.004	0.86
1649622	Drill Core	2.34	0.015	<0.001	0.005	<0.02	0.01	<2	0.004	0.002	0.06	3.05	<0.02	0.03	<0.001	<0.01	<0.01	2.19	0.05	0.003	0.94
1649623	Drill Core	2.41	0.017	<0.001	0.004	<0.02	0.01	<2	0.003	0.001	0.05	2.86	<0.02	0.03	<0.001	<0.01	<0.01	2.01	0.04	0.003	0.90



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Project: Mikwam (MK)
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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA370	MA370	MA370	MA370	MA370
		Al	Na	K	W	S
Unit		%	%	%	%	%
MDL		0.01	0.01	0.01	0.01	0.05
1649594	Drill Core	7.68	1.77	2.19	<0.01	2.47
1649595	Drill Core	6.90	1.45	2.20	<0.01	4.98
1649596	Drill Core	8.21	2.25	2.23	<0.01	4.02
1649597	Drill Core	7.37	1.83	2.11	<0.01	5.32
1649598	Drill Core	6.74	2.11	1.74	<0.01	5.45
1649599	Drill Core	7.10	1.97	1.96	<0.01	5.43
1649600	Rock	0.18	0.04	0.04	<0.01	<0.05
1649601	Drill Core	7.62	2.04	2.10	<0.01	5.07
1649602	Drill Core	7.62	1.96	2.01	<0.01	4.09
1649603	Pulp	7.27	2.31	0.44	<0.01	0.10
1649604	Drill Core	7.72	2.56	1.73	<0.01	3.30
1649605	Drill Core	7.79	2.31	1.70	<0.01	3.08
1649606	Drill Core	7.62	2.44	1.55	<0.01	5.54
1649607	Drill Core	7.63	2.94	1.27	<0.01	7.29
1649608	Drill Core	7.68	2.25	1.48	<0.01	13.00
1649609	Drill Core	7.96	2.15	1.94	<0.01	5.94
1649610	Drill Core	7.65	2.03	2.12	<0.01	4.99
1649611	Drill Core	7.42	1.55	2.13	<0.01	3.53
1649612	Drill Core	7.69	2.00	2.17	<0.01	4.92
1649613	Drill Core	7.36	2.32	2.10	<0.01	0.56
1649614	Drill Core	7.51	2.01	2.42	<0.01	0.46
1649615	Drill Core	7.46	3.01	1.86	<0.01	0.68
1649616	Drill Core	7.75	1.78	2.59	<0.01	1.31
1649617	Drill Core	7.19	1.42	2.55	<0.01	1.63
1649618	Drill Core	7.55	1.74	2.51	<0.01	1.52
1649619	Pulp	5.61	1.45	0.66	<0.01	0.77
1649620	Drill Core	6.23	0.71	2.48	<0.01	2.05
1649621	Drill Core	8.10	1.28	3.00	<0.01	2.15
1649622	Drill Core	7.59	1.47	2.60	<0.01	1.91
1649623	Drill Core	7.80	1.49	2.77	<0.01	1.94



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CERTIFICATE OF ANALYSIS

TIM18002059.1

Method	WGHT	FA430	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	
Unit	kg	ppm	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%	
MDL	0.01	0.005	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01	
1649624	Rock	0.10	<0.005	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.56	<0.02	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.001	0.01
1649625	Drill Core	2.62	0.016	<0.001	0.005	<0.02	0.01	<2	0.003	0.001	0.05	2.70	<0.02	0.03	<0.001	<0.01	<0.01	1.92	0.04	0.003	0.87
1649626	Drill Core	2.82	0.014	<0.001	0.003	<0.02	0.02	<2	0.003	0.001	0.04	2.57	<0.02	0.03	<0.001	<0.01	<0.01	1.81	0.04	0.002	0.80
1649627	Drill Core	1.78	0.031	<0.001	0.003	<0.02	0.02	<2	0.004	0.001	0.04	3.60	0.05	0.02	<0.001	<0.01	<0.01	1.73	0.04	0.004	0.83
1649628	Drill Core	2.02	0.440	<0.001	0.003	<0.02	<0.01	<2	0.001	<0.001	0.03	5.89	0.38	<0.01	<0.001	<0.01	<0.01	0.24	0.02	0.001	0.21
1649629	Drill Core	2.03	1.597	<0.001	0.005	<0.02	<0.01	<2	0.003	<0.001	0.05	8.14	0.35	<0.01	<0.001	<0.01	<0.01	0.19	0.04	0.004	0.28
1649630	Pulp	0.06	0.316	<0.001	0.010	<0.02	<0.01	<2	0.013	0.005	0.14	8.48	<0.02	0.03	<0.001	<0.01	<0.01	6.98	0.09	0.017	4.28
1649631	Drill Core	2.14	2.306	<0.001	0.003	<0.02	<0.01	<2	0.002	<0.001	0.03	6.96	0.85	<0.01	<0.001	<0.01	<0.01	0.13	0.04	0.002	0.23
1649632	Drill Core	1.94	7.506	<0.001	0.011	<0.02	<0.01	3	0.003	<0.001	<0.01	12.23	1.29	<0.01	<0.001	<0.01	<0.01	0.18	0.08	0.001	0.26
1649633	Drill Core	2.63	3.824	<0.001	0.005	<0.02	<0.01	<2	0.002	<0.001	0.06	12.97	0.95	<0.01	<0.001	<0.01	<0.01	0.42	0.08	0.003	0.65
1649634	Drill Core	2.43	0.886	<0.001	0.003	<0.02	<0.01	<2	0.004	0.002	0.07	8.59	0.23	0.02	<0.001	<0.01	<0.01	1.71	0.07	0.004	1.14
1649635	Drill Core	2.29	0.109	<0.001	<0.001	<0.02	<0.01	<2	0.005	0.002	0.06	5.90	0.15	0.02	<0.001	<0.01	<0.01	1.91	0.05	0.005	1.11
1649636	Drill Core	2.64	0.403	<0.001	0.001	<0.02	<0.01	<2	0.005	0.002	0.05	8.40	0.14	0.02	<0.001	<0.01	<0.01	1.51	0.06	0.006	1.40
1649637	Drill Core	1.98	5.743	<0.001	0.007	<0.02	<0.01	2	0.003	0.001	0.06	15.73	0.91	0.01	<0.001	<0.01	<0.01	0.88	0.07	0.003	0.78
1649638	Drill Core	1.63	1.663	<0.001	0.003	<0.02	<0.01	<2	0.004	0.002	0.06	10.10	0.46	0.02	<0.001	<0.01	<0.01	2.10	0.07	0.005	1.46
1649639	Rock	0.10	0.017	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	0.91	<0.02	<0.01	<0.001	<0.01	<0.01	0.03	<0.01	<0.001	0.03
1649640	Drill Core	2.60	0.053	<0.001	0.001	<0.02	<0.01	<2	0.003	<0.001	0.05	7.23	0.12	0.02	<0.001	<0.01	<0.01	2.09	0.07	0.004	1.74
1649641	Drill Core	2.67	0.214	<0.001	0.002	<0.02	<0.01	<2	0.004	0.002	0.04	8.44	0.04	0.02	<0.001	<0.01	<0.01	1.03	0.06	0.005	1.21
1649642	Drill Core	2.16	0.583	<0.001	0.001	<0.02	<0.01	<2	0.005	0.002	0.05	7.78	0.37	0.02	<0.001	<0.01	<0.01	1.80	0.06	0.005	1.01
1649643	Drill Core	3.93	7.267	<0.001	0.010	<0.02	<0.01	2	0.004	0.001	0.04	20.41	1.67	<0.01	<0.001	<0.01	<0.01	0.52	0.08	0.002	0.66
1649644	Drill Core	2.78	0.714	<0.001	<0.001	<0.02	<0.01	<2	0.006	0.002	0.04	7.98	0.21	0.02	<0.001	<0.01	<0.01	1.12	0.06	0.006	1.17
1649645	Drill Core	2.11	0.591	<0.001	<0.001	<0.02	<0.01	<2	0.005	0.002	0.05	6.91	0.38	0.02	<0.001	<0.01	<0.01	1.86	0.05	0.005	1.12
1649646	Drill Core	2.13	1.514	<0.001	0.001	<0.02	<0.01	<2	0.003	0.001	0.07	7.07	0.50	0.02	<0.001	<0.01	<0.01	2.22	0.04	0.003	0.93
1649647	Pulp	0.05	6.532	<0.001	0.012	<0.02	<0.01	<2	0.018	0.004	0.09	5.66	<0.02	<0.01	<0.001	<0.01	<0.01	4.89	0.03	0.040	4.38
1649648	Drill Core	2.41	3.916	<0.001	0.003	<0.02	<0.01	<2	0.001	<0.001	0.03	11.59	1.11	<0.01	<0.001	<0.01	<0.01	0.17	0.06	0.003	0.79
1649649	Drill Core	2.47	2.551	<0.001	0.007	<0.02	<0.01	<2	0.003	<0.001	0.07	18.96	0.90	<0.01	<0.001	<0.01	<0.01	0.26	0.07	0.003	0.62
1649650	Drill Core	2.31	1.572	<0.001	<0.001	<0.02	<0.01	2	0.003	0.001	0.04	5.47	0.20	0.02	<0.001	<0.01	<0.01	1.18	0.05	0.003	0.73
1649651	Drill Core	2.38	4.073	<0.001	0.001	<0.02	<0.01	<2	0.002	<0.001	0.03	5.63	0.55	<0.01	<0.001	<0.01	<0.01	0.71	0.03	0.002	0.38
1649652	Drill Core	1.99	6.051	<0.001	0.002	<0.02	<0.01	2	0.002	<0.001	0.03	6.63	0.70	<0.01	<0.001	<0.01	<0.01	0.58	0.02	0.003	0.38
1649653	Drill Core	2.51	0.953	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.02	2.25	0.11	0.02	<0.001	<0.01	<0.01	1.17	0.03	0.003	0.32



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Project: Mikwam (MK)
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CERTIFICATE OF ANALYSIS

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Method	Analyte	MA370	MA370	MA370	MA370	MA370
		Al	Na	K	W	S
Unit		%	%	%	%	%
MDL		0.01	0.01	0.01	0.01	0.05
1649624	Rock	0.19	0.05	0.06	<0.01	<0.05
1649625	Drill Core	7.57	1.60	2.65	<0.01	1.78
1649626	Drill Core	7.36	2.39	2.09	<0.01	1.57
1649627	Drill Core	5.19	1.10	1.70	<0.01	2.50
1649628	Drill Core	1.28	0.11	0.41	<0.01	3.34
1649629	Drill Core	4.15	0.24	1.64	<0.01	4.06
1649630	Pulp	7.30	2.31	0.45	<0.01	0.10
1649631	Drill Core	2.49	0.10	0.95	<0.01	3.41
1649632	Drill Core	1.28	0.02	0.24	<0.01	8.97
1649633	Drill Core	4.07	0.64	1.02	<0.01	5.23
1649634	Drill Core	7.00	1.31	2.08	<0.01	3.03
1649635	Drill Core	6.91	1.33	2.18	<0.01	1.08
1649636	Drill Core	7.32	0.82	2.08	<0.01	1.08
1649637	Drill Core	3.51	0.81	0.48	<0.01	8.49
1649638	Drill Core	5.17	0.94	1.06	<0.01	3.46
1649639	Rock	0.28	0.05	0.07	<0.01	<0.05
1649640	Drill Core	7.48	1.48	1.74	<0.01	0.32
1649641	Drill Core	7.69	1.30	2.17	<0.01	0.38
1649642	Drill Core	6.44	1.18	1.99	<0.01	2.07
1649643	Drill Core	3.36	0.41	0.87	<0.01	12.97
1649644	Drill Core	8.39	2.41	1.76	<0.01	1.20
1649645	Drill Core	7.60	1.00	2.59	<0.01	1.38
1649646	Drill Core	4.54	0.46	1.81	<0.01	2.45
1649647	Pulp	5.73	1.47	0.68	<0.01	0.79
1649648	Drill Core	3.57	0.08	1.02	<0.01	4.88
1649649	Drill Core	5.43	0.27	2.02	<0.01	10.25
1649650	Drill Core	6.55	0.71	2.54	<0.01	1.73
1649651	Drill Core	2.45	0.19	0.97	<0.01	2.81
1649652	Drill Core	3.12	0.17	1.25	<0.01	3.55
1649653	Drill Core	7.98	1.59	2.89	<0.01	0.67



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Method	WGHT	FA430	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	
Unit	kg	ppm	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%	
MDL	0.01	0.005	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01	
1649654	Drill Core	2.33	0.431	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.02	2.27	0.10	0.02	<0.001	<0.01	<0.01	1.12	0.03	0.004	0.32
1649655	Drill Core	1.89	0.187	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.03	1.98	0.05	0.03	<0.001	<0.01	<0.01	1.50	0.03	0.003	0.31
1649656	Drill Core	2.52	0.078	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.03	2.14	0.08	0.03	<0.001	<0.01	<0.01	2.77	0.03	0.004	0.32
1649657	Drill Core	2.02	0.061	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.04	2.10	0.08	0.03	<0.001	<0.01	<0.01	2.77	0.04	0.004	0.39
1649658	Drill Core	2.11	0.072	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.04	2.01	0.09	0.03	<0.001	<0.01	<0.01	3.07	0.04	0.003	0.39
1649659	Rock	0.09	<0.005	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	0.02	2.02	<0.02	<0.01	<0.001	<0.01	<0.01	0.08	<0.01	<0.001	0.02
1649660	Drill Core	2.06	0.063	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.04	1.91	0.06	0.03	<0.001	<0.01	<0.01	2.28	0.03	0.003	0.78
1649661	Drill Core	2.11	0.079	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.03	1.91	0.27	0.03	<0.001	<0.01	<0.01	1.30	0.03	0.002	0.54
1649662	Drill Core	1.87	0.056	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.03	1.56	0.13	0.03	<0.001	<0.01	<0.01	1.43	0.03	0.003	0.59
1649663	Drill Core	2.51	0.058	<0.001	<0.001	<0.02	<0.01	<2	0.004	<0.001	0.05	1.87	0.08	0.02	<0.001	<0.01	<0.01	2.75	0.02	0.003	1.27
1649664	Drill Core	1.84	0.097	<0.001	<0.001	<0.02	<0.01	<2	0.005	0.001	0.04	2.32	0.05	0.03	<0.001	<0.01	<0.01	2.08	0.07	0.008	0.73
1649665	Drill Core	2.62	0.080	<0.001	0.001	<0.02	<0.01	<2	0.006	0.001	0.04	2.84	0.05	0.04	<0.001	<0.01	<0.01	2.44	0.08	0.010	0.89
1649666	Pulp	0.06	0.326	<0.001	0.010	<0.02	<0.01	<2	0.012	0.005	0.14	8.26	<0.02	0.03	<0.001	<0.01	<0.01	6.75	0.09	0.017	4.24
1649667	Drill Core	1.93	0.020	<0.001	<0.001	<0.02	0.01	<2	0.004	<0.001	0.05	2.37	0.03	0.04	<0.001	<0.01	<0.01	2.78	0.06	0.006	1.02
1649668	Drill Core	2.28	0.060	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.02	1.91	0.08	0.03	<0.001	<0.01	<0.01	1.44	0.04	0.004	0.55
1649669	Drill Core	2.62	0.154	<0.001	<0.001	<0.02	<0.01	<2	0.003	<0.001	0.03	2.36	0.05	0.03	<0.001	<0.01	<0.01	1.70	0.03	0.004	0.75
1649670	Drill Core	2.37	0.072	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.02	1.66	0.08	0.03	<0.001	<0.01	<0.01	1.43	0.03	0.003	0.67
1649671	Drill Core	1.91	0.028	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.03	1.42	0.04	0.03	<0.001	<0.01	<0.01	1.87	0.03	0.002	0.76
1649672	Drill Core	2.24	0.008	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.04	1.74	<0.02	0.03	<0.001	<0.01	<0.01	2.92	0.02	0.002	0.86
1649673	Drill Core	2.05	<0.005	<0.001	<0.001	<0.02	<0.01	<2	0.002	<0.001	0.04	1.46	<0.02	0.03	<0.001	<0.01	<0.01	2.70	0.04	0.004	1.13



Bureau Veritas Commodities Canada Ltd.

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Project: Mikwam (MK)
Report Date: October 24, 2018

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CERTIFICATE OF ANALYSIS

TIM18002059.1

Method	Analyte	MA370	MA370	MA370	MA370	MA370
		Al	Na	K	W	S
Unit		%	%	%	%	%
MDL		0.01	0.01	0.01	0.01	0.05
1649654	Drill Core	8.32	1.85	2.88	<0.01	0.69
1649655	Drill Core	8.35	2.26	2.69	<0.01	0.52
1649656	Drill Core	8.98	1.92	3.16	<0.01	0.46
1649657	Drill Core	8.78	1.93	3.11	<0.01	0.39
1649658	Drill Core	8.97	2.47	2.85	<0.01	0.42
1649659	Rock	0.38	0.08	0.12	<0.01	<0.05
1649660	Drill Core	8.31	2.24	2.67	<0.01	0.34
1649661	Drill Core	9.40	2.43	3.06	<0.01	0.54
1649662	Drill Core	9.05	2.94	2.66	<0.01	0.51
1649663	Drill Core	6.81	1.52	2.37	<0.01	0.42
1649664	Drill Core	8.02	1.09	3.13	<0.01	0.58
1649665	Drill Core	7.69	1.35	2.79	<0.01	0.65
1649666	Pulp	7.35	2.35	0.42	<0.01	0.08
1649667	Drill Core	8.14	1.65	2.88	<0.01	0.52
1649668	Drill Core	9.00	2.63	2.74	<0.01	0.49
1649669	Drill Core	8.68	1.98	2.93	<0.01	0.71
1649670	Drill Core	9.23	2.06	3.10	<0.01	0.36
1649671	Drill Core	9.15	1.91	3.17	<0.01	0.18
1649672	Drill Core	8.06	2.43	2.37	<0.01	0.20
1649673	Drill Core	8.59	2.25	2.71	<0.01	0.15



QUALITY CONTROL REPORT

TIM18002059.1

Method	WGHT	FA430	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370
Analyte	Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg	
Unit	kg	ppm	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%	
MDL	0.01	0.005	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01	
Pulp Duplicates																					
1649596	Drill Core	2.52	0.013	<0.001	0.003	<0.02	<0.01	<2	0.006	0.002	0.07	4.13	<0.02	0.03	<0.001	<0.01	<0.01	3.42	0.05	0.006	1.58
REP 1649596	QC	0.017																			
1649602	Drill Core	2.21	0.009	<0.001	0.012	<0.02	<0.01	<2	0.006	0.002	0.04	3.99	<0.02	0.03	<0.001	<0.01	<0.01	2.15	0.05	0.004	1.03
REP 1649602	QC	<0.001 0.012 <0.02 <0.01 <2 0.006 0.002 0.04 4.03 <0.02 0.03 <0.001 <0.01 <0.01 2.14 0.05 0.004 1.05																			
1649636	Drill Core	2.64	0.403	<0.001	0.001	<0.02	<0.01	<2	0.005	0.002	0.05	8.40	0.14	0.02	<0.001	<0.01	<0.01	1.51	0.06	0.006	1.40
REP 1649636	QC	<0.001 0.001 <0.02 <0.01 <2 0.005 0.002 0.05 8.35 0.14 0.02 <0.001 <0.01 <0.01 1.50 0.06 0.006 1.40																			
1649665	Drill Core	2.62	0.080	<0.001	0.001	<0.02	<0.01	<2	0.006	0.001	0.04	2.84	0.05	0.04	<0.001	<0.01	<0.01	2.44	0.08	0.010	0.89
REP 1649665	QC	<0.001 0.001 <0.02 <0.01 <2 0.006 0.001 0.04 3.05 0.05 0.04 <0.001 <0.01 <0.01 2.47 0.08 0.010 0.90																			
Core Reject Duplicates																					
1649607	Drill Core	2.16	0.019	<0.001	0.005	<0.02	0.02	<2	0.005	0.002	0.02	6.59	<0.02	0.04	<0.001	<0.01	<0.01	1.41	0.03	0.002	0.66
DUP 1649607	QC	0.024 <0.001 0.007 <0.02 0.03 <2 0.007 0.002 0.03 6.29 <0.02 0.04 <0.001 <0.01 <0.01 1.44 0.03 0.003 0.69																			
1649641	Drill Core	2.67	0.214	<0.001	0.002	<0.02	<0.01	<2	0.004	0.002	0.04	8.44	0.04	0.02	<0.001	<0.01	<0.01	1.03	0.06	0.005	1.21
DUP 1649641	QC	0.211 <0.001 0.002 <0.02 <0.01 <2 0.004 0.002 0.04 8.32 0.04 0.02 <0.001 <0.01 <0.01 1.02 0.06 0.005 1.19																			
Reference Materials																					
STD CDN-ME-14	Standard	0.002 1.259 0.52 3.26 44 0.002 0.018 0.09 18.84 <0.02 <0.01 0.010 <0.01 <0.01 0.77 0.02 0.002 1.29																			
STD CDN-ME-9	Standard	<0.001 0.678 <0.02 0.01 4 0.966 0.019 0.12 14.38 <0.02 0.03 <0.001 <0.01 <0.01 4.43 0.07 0.031 4.06																			
STD CDN-ME-14	Standard	0.001 1.201 0.47 3.14 45 0.002 0.018 0.09 18.50 <0.02 <0.01 0.009 <0.01 0.01 0.76 0.02 0.001 1.27																			
STD CDN-ME-9	Standard	<0.001 0.639 <0.02 0.01 4 0.904 0.018 0.12 14.18 <0.02 0.03 <0.001 <0.01 <0.01 4.33 0.07 0.030 3.99																			
STD CDN-ME-14	Standard	0.001 1.184 0.46 3.11 44 0.002 0.017 0.09 18.44 <0.02 <0.01 0.009 <0.01 <0.01 0.75 0.02 0.001 1.26																			
STD CDN-ME-9	Standard	<0.001 0.639 <0.02 0.01 4 0.909 0.018 0.12 14.02 <0.02 0.03 <0.001 <0.01 <0.01 4.28 0.06 0.029 3.96																			
STD OXC145	Standard	0.215																			
STD OXC145	Standard	0.212																			
STD OXC145	Standard	0.213																			
STD OXC145	Standard	0.211																			
STD OXH139	Standard	1.307																			
STD OXH139	Standard	1.248																			
STD OXH139	Standard	1.287																			
STD OXN134	Standard	7.333																			



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Project: Mikwam (MK)
Report Date: October 24, 2018

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QUALITY CONTROL REPORT

TIM18002059.1

Method	Analyte	MA370	MA370	MA370	MA370	MA370
		Al	Na	K	W	S
Unit		%	%	%	%	%
MDL		0.01	0.01	0.01	0.01	0.05
Pulp Duplicates						
1649596	Drill Core	8.21	2.25	2.23	<0.01	4.02
REP 1649596	QC					
1649602	Drill Core	7.62	1.96	2.01	<0.01	4.09
REP 1649602	QC	7.61	1.95	2.05	<0.01	4.04
1649636	Drill Core	7.32	0.82	2.08	<0.01	1.08
REP 1649636	QC	7.28	0.82	2.08	<0.01	1.08
1649665	Drill Core	7.69	1.35	2.79	<0.01	0.65
REP 1649665	QC	7.80	1.36	2.83	<0.01	0.68
Core Reject Duplicates						
1649607	Drill Core	7.63	2.94	1.27	<0.01	7.29
DUP 1649607	QC	7.22	2.63	1.29	<0.01	6.90
1649641	Drill Core	7.69	1.30	2.17	<0.01	0.38
DUP 1649641	QC	7.63	1.30	2.16	<0.01	0.37
Reference Materials						
STD CDN-ME-14	Standard	4.55	0.56	1.71	<0.01	16.11
STD CDN-ME-9	Standard	6.85	1.92	0.64	<0.01	2.64
STD CDN-ME-14	Standard	4.43	0.53	1.68	<0.01	16.36
STD CDN-ME-9	Standard	6.63	1.83	0.64	<0.01	2.65
STD CDN-ME-14	Standard	4.38	0.53	1.67	<0.01	16.06
STD CDN-ME-9	Standard	6.59	1.82	0.64	<0.01	2.70
STD OXC145	Standard					
STD OXC145	Standard					
STD OXC145	Standard					
STD OXC145	Standard					
STD OXH139	Standard					
STD OXH139	Standard					
STD OXH139	Standard					
STD OXN134	Standard					



QUALITY CONTROL REPORT

TIM18002059.1

		WGHT	FA430	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370	MA370
		Wgt	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Sr	Cd	Sb	Bi	Ca	P	Cr	Mg
		kg	ppm	%	%	%	%	ppm	%	%	%	%	%	%	%	%	%	%	%	%	%
		0.01	0.005	0.001	0.001	0.02	0.01	2	0.001	0.001	0.01	0.01	0.02	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01
STD OXN134	Standard	7.612																			
STD OXN134	Standard	7.807																			
STD OXN134	Standard	7.603																			
STD OXC145 Expected		0.212																			
STD OXN134 Expected		7.667																			
STD OXH139 Expected		1.312																			
STD CDN-ME-14 Expected				1.221	0.495	3.17	43.5	0.002	0.0172	0.0883	18.04	0.0088		0.0088		0.0094	0.747	0.0147	0.0014	1.28	
STD CDN-ME-9 Expected				0.654		0.012		0.912	0.0169	0.121	13.84		0.03				4.21	0.06	0.0284	4.05	
BLK	Blank	<0.005																			
BLK	Blank	0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank	<0.005																			
BLK	Blank		<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.02	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01
BLK	Blank		<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.02	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01
BLK	Blank		<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	<0.01	<0.01	<0.02	<0.01	<0.001	<0.01	<0.01	<0.01	<0.01	<0.01	<0.001	<0.01
Prep Wash																					
ROCK-TIM	Prep Blank	<0.005	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	0.07	2.12	<0.02	0.02	<0.001	<0.01	<0.01	1.59	0.04	<0.001	0.50	
ROCK-TIM	Prep Blank	<0.005	<0.001	<0.001	<0.02	<0.01	<2	<0.001	<0.001	0.07	2.23	<0.02	0.02	<0.001	<0.01	<0.01	1.68	0.04	<0.001	0.51	



Bureau Veritas Commodities Canada Ltd.

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Project: Mikwam (MK)
Report Date: October 24, 2018

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QUALITY CONTROL REPORT

TIM18002059.1

		MA370	MA370	MA370	MA370	MA370
		Al	Na	K	W	S
		%	%	%	%	%
		0.01	0.01	0.01	0.01	0.05
STD OXN134	Standard					
STD OXN134	Standard					
STD OXN134	Standard					
STD OXC145	Expected					
STD OXN134	Expected					
STD OXH139	Expected					
STD CDN-ME-14	Expected	4.47	0.53	1.7		16.14
STD CDN-ME-9	Expected	6.74	1.86	0.616		2.58
BLK	Blank					
BLK	Blank					
BLK	Blank					
BLK	Blank					
BLK	Blank					
BLK	Blank					
BLK	Blank					
BLK	Blank					
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.05
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.05
BLK	Blank	<0.01	<0.01	<0.01	<0.01	<0.05
Prep Wash						
ROCK-TIM	Prep Blank	7.35	3.54	1.68	<0.01	0.06
ROCK-TIM	Prep Blank	7.38	3.54	1.68	<0.01	0.06



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Bureau Veritas Commodities Canada Ltd.
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: September 26, 2018
Report Date: October 18, 2018
Page: 1 of 3

CERTIFICATE OF ANALYSIS

TIM18002060.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID:
P.O. Number: Rush
Number of Samples: 60

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.

Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	56	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	4	Sort, label and box pulps			TIM
FA430	60	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	60	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS



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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Project: Mikwam (MK)
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CERTIFICATE OF ANALYSIS

TIM18002060.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1649674	Drill Core	1.68 <0.005
1649675	Drill Core	1.75 0.011
1649676	Drill Core	2.08 <0.005
1649677	Drill Core	2.29 <0.005
1649678	Drill Core	2.00 0.007
1649679	Pulp	0.06 0.327
1649680	Drill Core	2.22 <0.005
1649681	Drill Core	1.93 <0.005
1649682	Drill Core	2.35 0.008
1649683	Drill Core	2.37 0.008
1649684	Rock	0.11 <0.005
1649685	Drill Core	2.03 0.022
1649686	Drill Core	1.70 0.046
1649687	Drill Core	2.34 0.032
1649688	Drill Core	1.70 0.052
1649689	Drill Core	3.07 0.754
1649690	Drill Core	1.60 0.077
1649691	Drill Core	1.21 4.430
1649692	Pulp	0.05 6.436
1649693	Drill Core	3.32 8.116
1649694	Drill Core	2.14 6.215
1649695	Drill Core	2.37 0.655
1649696	Drill Core	2.55 0.600
1649697	Drill Core	2.71 0.233
1649698	Drill Core	1.88 0.198
1649699	Drill Core	2.35 0.048
1649700	Drill Core	2.26 0.080
1649701	Drill Core	2.12 0.057
1649702	Rock	0.09 <0.005
1649703	Drill Core	2.13 0.276



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Project: Mikwam (MK)
Report Date: October 18, 2018

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CERTIFICATE OF ANALYSIS

TIM18002060.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1649704	Drill Core	2.08 0.330
1649705	Drill Core	2.92 0.356
1649706	Drill Core	1.65 4.457
1649707	Drill Core	2.33 0.214
1649708	Drill Core	2.14 0.092
1649709	Drill Core	2.39 0.243
1649710	Drill Core	1.84 0.221
1649711	Drill Core	2.53 0.007
1649712	Pulp	0.06 0.326
1649713	Drill Core	2.11 0.006
1649714	Drill Core	2.09 0.008
1649715	Drill Core	1.86 0.015
1649716	Drill Core	2.56 0.037
1649717	Drill Core	2.34 0.250
1649718	Drill Core	2.14 0.094
1649719	Rock	0.10 <0.005
1649720	Drill Core	1.91 0.032
1649721	Drill Core	1.86 0.075
1649722	Drill Core	2.20 0.009
1649723	Drill Core	2.29 0.017
1649724	Drill Core	2.11 0.028
1649725	Drill Core	2.64 0.036
1649726	Drill Core	1.91 0.124
1649727	Pulp	0.05 6.648
1649728	Drill Core	2.37 6.438
1649729	Drill Core	1.57 0.213
1649730	Drill Core	2.52 0.396
1649731	Drill Core	1.58 0.256
1649732	Drill Core	2.20 0.860
1649733	Drill Core	2.08 0.039



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QUALITY CONTROL REPORT

TIM18002060.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
Pulp Duplicates		
REP 1649675	QC	<0.005
1649696	Drill Core	2.55 0.600
REP 1649696	QC	0.616
1649724	Drill Core	2.11 0.028
REP 1649724	QC	0.031
1649728	Drill Core	2.37 6.438
REP 1649728	QC	8.241
1649731	Drill Core	1.58 0.256
REP 1649731	QC	0.297
Core Reject Duplicates		
1649675	Drill Core	1.75 0.011
DUP 1649675	QC	<0.005
1649709	Drill Core	2.39 0.243
DUP 1649709	QC	0.207
Reference Materials		
STD OXC145	Standard	0.197
STD OXC145	Standard	0.206
STD OXC145	Standard	0.215
STD OXC145	Standard	0.211
STD OXC145	Standard	0.211
STD OXH139	Standard	1.356
STD OXH139	Standard	1.311
STD OXH139	Standard	1.359
STD OXH139	Standard	1.287
STD OXN134	Standard	7.766
STD OXN134	Standard	7.693
STD OXN134	Standard	7.333
STD OXN134	Standard	7.145



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QUALITY CONTROL REPORT

TIM18002060.1

		WGHT	FA430
		Wgt	Au
		kg	ppm
		0.01	0.005
STD OXN134	Standard		7.603
STD OXC145	Expected		0.212
STD OXN134	Expected		7.667
STD OXH139	Expected		1.312
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
BLK	Blank		0.007
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-TIM	Prep Blank		<0.005
ROCK-TIM	Prep Blank		<0.005



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client:

Aurelius Minerals

625 Howe Street, Suite 1020

Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan

Receiving Lab: Canada-Timmins

Received: October 01, 2018

Report Date: October 18, 2018

Page: 1 of 3

CERTIFICATE OF ANALYSIS

TIM18002071.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID:
P.O. Number: Rush Batch #12
Number of Samples: 34

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.


Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	32	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	2	Sort, label and box pulps			TIM
FA430	34	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	34	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS


JEFFREY CANNON
Geochemistry Department Supervisor

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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: October 18, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18002071.1

Method	WGHT	FA430	
		Wgt	Au
Analyte	kg	ppm	
Unit			
MDL	0.01	0.005	
1649784	Drill Core	2.67	0.852
1649785	Drill Core	2.04	0.774
1649786	Drill Core	1.97	0.487
1649787	Drill Core	1.79	0.806
1649788	Drill Core	2.64	1.438
1649789	Drill Core	2.26	2.584
1649790	Drill Core	1.95	0.334
1649791	Rock	0.14	0.007
1649792	Drill Core	2.31	0.049
1649793	Drill Core	2.53	0.378
1649794	Drill Core	2.28	0.212
1649795	Drill Core	2.16	0.210
1649796	Drill Core	2.21	0.390
1649797	Pulp	0.11	6.635
1649798	Drill Core	2.38	0.503
1649799	Drill Core	2.11	1.928
1649800	Drill Core	2.47	2.381
1649801	Drill Core	2.40	2.756
1649802	Drill Core	2.02	3.110
1649803	Drill Core	2.69	2.775
1649804	Drill Core	1.50	0.368
1649805	Drill Core	1.87	0.356
1649806	Pulp	0.11	6.618
1649807	Rock	0.13	0.007
1649808	Drill Core	2.25	0.257
1649809	Drill Core	2.20	<0.005
1649810	Drill Core	2.78	0.021
1649811	Drill Core	1.73	0.031
1649812	Drill Core	1.51	0.131
1649813	Drill Core	2.32	0.060



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PHONE (604) 253-3158

Client: **Aurelius Minerals**
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: October 18, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18002071.1

	Method	WGHT	FA430
	Analyte	Wgt	Au
	Unit	kg	ppm
	MDL	0.01	0.005
1649814	Drill Core	2.67	0.044
1649815	Drill Core	1.59	0.071
1649816	Drill Core	2.04	0.011
1649817	Drill Core	2.07	0.017



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: October 18, 2018

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Part: 1 of 1

QUALITY CONTROL REPORT

TIM18002071.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
Pulp Duplicates		
1649793	Drill Core	2.53 0.378
REP 1649793	QC	0.340
1649798	Drill Core	2.38 0.503
REP 1649798	QC	0.496
Core Reject Duplicates		
1649817	Drill Core	2.07 0.017
DUP 1649817	QC	0.009
Reference Materials		
STD OXC145	Standard	0.206
STD OXC145	Standard	0.212
STD OXH139	Standard	1.311
STD OXH139	Standard	1.307
STD OXN134	Standard	7.693
STD OXN134	Standard	7.612
STD OXC145 Expected		0.212
STD OXN134 Expected		7.667
STD OXH139 Expected		1.312
BLK	Blank	<0.005
BLK	Blank	0.007
BLK	Blank	<0.005
BLK	Blank	<0.005
Prep Wash		
ROCK-TIM	Prep Blank	0.006
ROCK-TIM	Prep Blank	0.006



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: October 01, 2018
Report Date: October 18, 2018
Page: 1 of 3

CERTIFICATE OF ANALYSIS

TIM18002072.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID:
P.O. Number: Rush Batch #11
Number of Samples: 50

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.

Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	47	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	3	Sort, label and box pulps			TIM
FA430	50	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	50	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: October 18, 2018

Page: 2 of 3

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18002072.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1649734	Drill Core	2.21 0.023
1649735	Drill Core	1.71 0.027
1649736	Drill Core	1.96 0.029
1649737	Drill Core	1.89 0.021
1649738	Drill Core	1.94 0.018
1649739	Rock	0.13 <0.005
1649740	Drill Core	2.27 0.025
1649741	Drill Core	2.32 0.023
1649742	Drill Core	1.59 0.030
1649743	Drill Core	2.47 0.028
1649744	Pulp	0.07 0.347
1649745	Drill Core	2.36 0.021
1649746	Drill Core	2.13 0.014
1649747	Drill Core	2.36 0.015
1649748	Drill Core	2.64 0.118
1649749	Drill Core	1.85 0.126
1649750	Drill Core	1.93 0.315
1649751	Drill Core	2.50 0.090
1649752	Drill Core	2.05 1.742
1649753	Drill Core	2.36 4.743
1649754	Drill Core	2.53 1.164
1649755	Drill Core	1.67 0.872
1649756	Rock	0.12 0.011
1649757	Drill Core	2.13 0.238
1649758	Drill Core	1.90 0.527
1649759	Drill Core	2.35 1.069
1649760	Drill Core	2.57 0.270
1649761	Drill Core	1.82 0.071
1649762	Pulp	0.06 6.568
1649763	Drill Core	2.49 0.047



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Client: **Aurelius Minerals**
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: October 18, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18002072.1

	Method	WGHT	FA430
	Analyte	Wgt	Au
	Unit	kg	ppm
	MDL	0.01	0.005
1649764	Drill Core	2.11	0.051
1649765	Drill Core	2.26	0.031
1649766	Drill Core	2.19	0.063
1649767	Drill Core	2.53	0.023
1649768	Drill Core	2.09	0.059
1649769	Drill Core	2.08	0.142
1649770	Drill Core	2.43	0.782
1649771	Drill Core	2.24	0.097
1649772	Rock	0.11	0.007
1649773	Drill Core	3.41	0.220
1649774	Drill Core	3.21	2.319
1649775	Drill Core	2.83	1.676
1649776	Drill Core	2.13	0.099
1649777	Drill Core	2.09	0.232
1649778	Drill Core	2.30	0.045
1649779	Pulp	0.06	0.340
1649780	Drill Core	2.34	0.022
1649781	Drill Core	2.32	0.016
1649782	Drill Core	2.15	0.045
1649783	Drill Core	2.20	0.036



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Project: Mikwam (MK)
Report Date: October 18, 2018

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Part: 1 of 1

QUALITY CONTROL REPORT

TIM18002072.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
Pulp Duplicates		
1649751	Drill Core	2.50 0.090
REP 1649751	QC	0.080
Core Reject Duplicates		
1649734	Drill Core	2.21 0.023
DUP 1649734	QC	0.024
1649768	Drill Core	2.09 0.059
DUP 1649768	QC	0.054
Reference Materials		
STD OXC145	Standard	0.211
STD OXC145	Standard	0.212
STD OXC145	Standard	0.213
STD OXC145	Standard	0.220
STD OXC145	Standard	0.217
STD OXH139	Standard	1.359
STD OXH139	Standard	1.307
STD OXH139	Standard	1.248
STD OXH139	Standard	1.283
STD OXH139	Standard	1.237
STD OXN134	Standard	7.145
STD OXN134	Standard	7.612
STD OXN134	Standard	7.807
STD OXN134	Standard	7.682
STD OXN134	Standard	7.868
STD OXC145 Expected		0.212
STD OXN134 Expected		7.667
STD OXH139 Expected		1.312
BLK	Blank	<0.005
BLK	Blank	<0.005



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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada
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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: October 18, 2018

Page: 2 of 2

Part: 1 of 1

QUALITY CONTROL REPORT

TIM18002072.1

		WGHT	FA430
		Wgt	Au
		kg	ppm
		0.01	0.005
BLK	Blank		<0.005
BLK	Blank		<0.005
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-TIM	Prep Blank		<0.005
ROCK-TIM	Prep Blank		<0.005



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

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: October 09, 2018
Report Date: October 18, 2018
Page: 1 of 3

CERTIFICATE OF ANALYSIS

TIM18002119.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID:
P.O. Number: Rush Batch #16
Number of Samples: 31

SAMPLE DISPOSAL

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	29	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	2	Sort, label and box pulps			TIM
FA430	31	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	31	Environmental disposal charge-Fire assay lead waste			TIM
FA530	1	Lead collection fire assay 30G fusion - Grav finish	30	Completed	TIM

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: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: October 18, 2018

Page: 2 of 3

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18002119.1

Method	WGHT	FA430	FA530
Analyte	Wgt	Au	Au
Unit	kg	ppm	gm/t
MDL	0.01	0.005	0.9
1649990	Drill Core	1.89	0.006
1649991	Drill Core	1.77	0.006
1649992	Drill Core	2.43	0.008
1649993	Drill Core	2.69	<0.005
1649994	Drill Core	1.48	0.007
1649995	Drill Core	1.84	0.005
1649996	Drill Core	2.16	0.005
1649997	Drill Core	2.03	<0.005
1649998	Drill Core	2.04	0.005
1649999	Pulp	0.07	>10 12.4
1650000	Drill Core	2.41	0.010
1636301	Drill Core	2.12	0.007
1636302	Drill Core	2.05	0.008
1636303	Drill Core	2.18	0.007
1636304	Drill Core	2.02	0.007
1636305	Pulp	0.03	6.812
1636306	Drill Core	1.84	0.013
1636307	Drill Core	2.44	0.010
1636308	Drill Core	2.24	0.009
1636309	Drill Core	2.31	0.008
1636310	Drill Core	1.95	0.009
1636311	Drill Core	1.79	0.007
1636312	Drill Core	2.25	0.007
1636313	Drill Core	2.29	0.007
1636314	Drill Core	2.57	0.008
1636315	Rock	0.12	<0.005
1636316	Drill Core	2.60	0.319
1636317	Drill Core	2.74	0.307
1636318	Drill Core	1.47	0.069
1636319	Drill Core	1.84	0.084



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Project: Mikwam (MK)
Report Date: October 18, 2018

Page: 3 of 3

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18002119.1

Method	WGHT	FA430	FA530
Analyte	Wgt	Au	Au
Unit	kg	ppm	gm/t
MDL	0.01	0.005	0.9
1636320	Drill Core	2.32	0.208



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Project: Mikwam (MK)
Report Date: October 18, 2018

Page: 1 of 1

Part: 1 of 1

QUALITY CONTROL REPORT

TIM18002119.1

Method	WGHT	FA430	FA530
Analyte	Wgt	Au	Au
Unit	kg	ppm	gm/t
MDL	0.01	0.005	0.9
Pulp Duplicates			
1649995	Drill Core	1.84	0.005
REP 1649995	QC	<0.005	
1649996	Drill Core	2.16	0.005
REP 1649996	QC	0.005	
Core Reject Duplicates			
1636316	Drill Core	2.60	0.319
DUP 1636316	QC	0.372	
Reference Materials			
STD OXC145	Standard	0.213	
STD OXH139	Standard	1.293	
STD OXN134	Standard	7.679	
STD OXP116	Standard	14.5	
STD OXQ90	Standard	24.9	
STD OXQ90	Standard	25.0	
STD OXC145 Expected		0.212	
STD OXN134 Expected		7.667	
STD OXH139 Expected		1.312	
STD OXP116 Expected		14.92	
STD OXQ90 Expected		24.88	
BLK	Blank	0.006	
BLK	Blank	0.008	
BLK	Blank	<0.9	
Prep Wash			
ROCK-TIM	Prep Blank	<0.005	
ROCK-TIM	Prep Blank	0.006	



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PHONE (604) 253-3158

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: October 09, 2018
Report Date: October 22, 2018
Page: 1 of 5

CERTIFICATE OF ANALYSIS

TIM18002120.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID:
P.O. Number: Rush Batch# 15
Number of Samples: 93

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.

Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	89	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	4	Sort, label and box pulps			TIM
FA430	93	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	93	Environmental disposal charge-Fire assay lead waste			TIM
FA530	4	Lead collection fire assay 30G fusion - Grav finish	30	Completed	TIM

ADDITIONAL COMMENTS


JEFFREY CANNON
Geochemistry Department Supervisor



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: October 22, 2018

Page: 2 of 5

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18002120.1

Method	WGHT	FA430	FA530
Analyte	Wgt	Au	Au
Unit	kg	ppm	gm/t
MDL	0.01	0.005	0.9
1649897	Drill Core	2.43	0.008
1649898	Drill Core	1.96	0.011
1649899	Drill Core	1.87	0.009
1649900	Drill Core	3.02	<0.005
1649901	Drill Core	2.28	0.009
1649902	Drill Core	2.12	0.011
1649903	Drill Core	2.55	0.008
1649904	Drill Core	3.05	0.010
1649905	Drill Core	0.07	0.351
1649906	Drill Core	2.31	0.014
1649907	Drill Core	1.80	0.010
1649908	Drill Core	2.13	0.008
1649909	Drill Core	2.15	0.031
1649910	Drill Core	2.61	0.010
1649911	Drill Core	2.61	0.032
1649912	Rock	0.14	<0.005
1649913	Drill Core	2.01	0.022
1649914	Drill Core	1.65	0.024
1649915	Drill Core	2.44	0.015
1649916	Drill Core	2.17	0.012
1649917	Drill Core	2.25	0.014
1649918	Drill Core	1.83	0.030
1649919	Drill Core	2.12	0.014
1649920	Drill Core	1.96	0.008
1649921	Drill Core	2.60	0.009
1649922	Drill Core	2.18	0.052
1649923	Drill Core	2.30	0.019
1649924	Drill Core	2.41	0.031
1649925	Drill Core	2.24	0.113
1649926	Drill Core	2.66	0.864



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PHONE (604) 253-3158

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: October 22, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18002120.1

Method	WGHT	FA430	FA530
Analyte	Wgt	Au	Au
Unit	kg	ppm	gm/t
MDL	0.01	0.005	0.9
1649927	Drill Core	2.62	2.310
1649928	Pulp	0.05	>10 12.3
1649929	Drill Core	2.36	0.670
1649930	Drill Core	2.58	0.672
1649931	Drill Core	2.02	0.407
1649932	Drill Core	2.08	0.090
1649933	Rock	0.16	<0.005
1649934	Drill Core	2.30	0.041
1649935	Drill Core	2.61	0.044
1649936	Drill Core	2.31	0.232
1649937	Drill Core	2.19	0.034
1649938	Drill Core	1.98	0.010
1649939	Drill Core	1.89	0.012
1649940	Drill Core	2.62	0.022
1649941	Pulp	0.07	>10 11.8
1649942	Drill Core	2.71	0.033
1649943	Drill Core	2.23	0.006
1649944	Drill Core	3.46	0.008
1649945	Drill Core	1.54	<0.005
1649946	Drill Core	2.03	<0.005
1649947	Drill Core	2.26	0.206
1649948	Drill Core	2.85	0.007
1649949	Drill Core	2.40	0.011
1649950	Drill Core	1.97	0.009
1649951	Drill Core	1.65	<0.005
1649952	Rock	0.19	<0.005
1649953	Drill Core	2.82	0.005
1649954	Drill Core	2.54	0.021
1649955	Drill Core	1.18	0.013
1649956	Drill Core	2.92	0.008



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: October 22, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18002120.1

Method	WGHT	FA430	FA530
Analyte	Wgt	Au	Au
Unit	kg	ppm	gm/t
MDL	0.01	0.005	0.9
1649957	Pulp	0.07	>10 12.2
1649958	Drill Core	2.59	<0.005
1649959	Drill Core	1.77	0.047
1649960	Drill Core	2.65	0.010
1649961	Drill Core	2.58	<0.005
1649962	Drill Core	2.65	<0.005
1649963	Drill Core	2.10	<0.005
1649964	Drill Core	1.92	<0.005
1649965	Drill Core	2.47	0.012
1649966	Drill Core	2.05	<0.005
1649967	Drill Core	1.69	0.005
1649968	Drill Core	2.27	<0.005
1649969	Rock	0.12	<0.005
1649970	Drill Core	2.33	0.048
1649971	Drill Core	2.61	1.263
1649972	Drill Core	2.37	0.015
1649973	Pulp	0.07	>10 12.1
1649974	Drill Core	1.88	0.009
1649975	Drill Core	1.89	0.007
1649976	Drill Core	2.33	<0.005
1649977	Drill Core	2.11	<0.005
1649978	Drill Core	2.22	0.006
1649979	Drill Core	1.94	0.005
1649980	Drill Core	2.19	0.007
1649981	Drill Core	2.52	0.008
1649982	Drill Core	2.06	<0.005
1649983	Drill Core	2.49	<0.005
1649984	Rock	0.13	<0.005
1649985	Drill Core	2.24	<0.005
1649986	Drill Core	2.05	0.008



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Report Date: October 22, 2018

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CERTIFICATE OF ANALYSIS

TIM18002120.1

	Method	WGHT	FA430	FA530
Analyte		Wgt	Au	Au
Unit		kg	ppm	gm/t
MDL		0.01	0.005	0.9
1649987	Drill Core	2.43	<0.005	
1649988	Drill Core	2.14	0.019	
1649989	Drill Core	2.35	<0.005	



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Project: Mikwam (MK)
Report Date: October 22, 2018

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Part: 1 of 1

QUALITY CONTROL REPORT

TIM18002120.1

Method	WGHT	FA430	FA530
Analyte	Wgt	Au	Au
Unit	kg	ppm	gm/t
MDL	0.01	0.005	0.9
Pulp Duplicates			
1649957	Pulp	0.07	>10 12.2
REP 1649957	QC		I.S.
1649968	Drill Core	2.27	<0.005
REP 1649968	QC		<0.005
1649973	Pulp	0.07	>10 12.1
REP 1649973	QC		I.S.
Core Reject Duplicates			
1649898	Drill Core	1.96	0.011
DUP 1649898	QC		0.009
1649932	Drill Core	2.08	0.090
DUP 1649932	QC		0.084
1649966	Drill Core	2.05	<0.005
DUP 1649966	QC		0.006
Reference Materials			
STD OXC145	Standard		0.211
STD OXC145	Standard		0.213
STD OXC145	Standard		0.212
STD OXC145	Standard		0.218
STD OXH139	Standard		1.359
STD OXH139	Standard		1.293
STD OXH139	Standard		1.307
STD OXH139	Standard		1.330
STD OXN134	Standard		7.145
STD OXN134	Standard		7.679
STD OXN134	Standard		7.612
STD OXN134	Standard		7.849
STD OXP116	Standard		15.0
STD OXP116	Standard		14.5



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Project: Mikwam (MK)
Report Date: October 22, 2018

Page: 2 of 2

Part: 1 of 1

QUALITY CONTROL REPORT

TIM18002120.1

		WGHT	FA430	FA530
		Wgt	Au	Au
		kg	ppm	gm/t
		0.01	0.005	0.9
STD OXP116	Standard			14.7
STD OXQ90	Standard			24.3
STD OXQ90	Standard			24.6
STD OXQ90	Standard			24.9
STD OXQ90	Standard			25.0
STD OXQ90	Standard			25.2
STD OXQ90	Standard			25.1
STD OXC145 Expected			0.212	
STD OXN134 Expected			7.667	
STD OXH139 Expected			1.312	
STD OXP116 Expected				14.92
STD OXQ90 Expected				24.88
BLK	Blank		<0.005	
BLK	Blank		<0.005	
BLK	Blank		0.006	
BLK	Blank		0.008	
BLK	Blank		<0.005	
BLK	Blank		<0.005	
BLK	Blank		<0.005	
BLK	Blank		<0.005	
BLK	Blank			<0.9
BLK	Blank			<0.9
BLK	Blank			<0.9
Prep Wash				
ROCK-TIM	Prep Blank		0.005	
ROCK-TIM	Prep Blank		<0.005	



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

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: October 09, 2018
Report Date: October 18, 2018
Page: 1 of 3

CERTIFICATE OF ANALYSIS

TIM18002121.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID: Batch # 13
P.O. Number: Rush Batch #13
Number of Samples: 51

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.

Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	48	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	3	Sort, label and box pulps			TIM
FA430	51	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	51	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS



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: Aurelius Minerals
625 Howe Street, Suite 1020
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Project: Mikwam (MK)
Report Date: October 18, 2018

Page: 2 of 3

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18002121.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1649543	Drill Core	2.48 0.029
1649544	Drill Core	2.79 0.008
1649545	Drill Core	2.44 0.012
1649546	Drill Core	2.49 0.081
1649547	Drill Core	2.67 0.016
1649548	Drill Core	2.09 0.069
1649549	Drill Core	1.52 0.233
1649550	Drill Core	2.37 0.124
1649551	Drill Core	2.16 0.354
1649552	Pulp	0.06 6.764
1649553	Drill Core	2.54 1.663
1649554	Drill Core	2.98 2.672
1649555	Rock	0.11 <0.005
1649556	Drill Core	1.37 0.148
1649557	Drill Core	2.16 0.162
1649558	Drill Core	2.49 0.087
1649559	Drill Core	2.17 0.147
1649560	Drill Core	2.13 0.089
1649561	Drill Core	2.36 0.122
1649562	Drill Core	2.30 0.116
1649563	Drill Core	2.66 0.180
1649564	Pulp	0.07 0.335
1649565	Drill Core	2.14 0.263
1649566	Drill Core	2.37 0.185
1649567	Drill Core	2.05 0.190
1649568	Drill Core	2.39 0.234
1649569	Drill Core	2.63 0.426
1649570	Drill Core	2.44 1.007
1649571	Drill Core	2.71 8.778
1649572	Drill Core	2.69 8.319



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Project: Mikwam (MK)
Report Date: October 18, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18002121.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1649573	Drill Core	2.70 8.603
1649574	Drill Core	2.48 6.787
1649575	Pulp	0.05 6.808
1649576	Drill Core	2.76 8.696
1649577	Drill Core	2.34 5.953
1649578	Drill Core	2.58 1.546
1649579	Drill Core	2.51 4.414
1649580	Drill Core	2.13 1.714
1649581	Drill Core	1.17 0.164
1649582	Rock	0.19 0.007
1649583	Drill Core	2.17 0.483
1649584	Drill Core	2.33 0.041
1649585	Drill Core	1.82 0.018
1649586	Drill Core	2.52 0.013
1649587	Drill Core	2.14 0.011
1649588	Drill Core	2.14 0.007
1649589	Drill Core	2.14 0.005
1649590	Drill Core	2.22 0.010
1649591	Drill Core	2.01 0.009
1649592	Drill Core	2.42 0.008
1649593	Drill Core	1.80 <0.005



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Project: Mikwam (MK)
Report Date: October 18, 2018

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Part: 1 of 1

QUALITY CONTROL REPORT

TIM18002121.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
Core Reject Duplicates		
1649576	Drill Core	2.76 8.696
DUP 1649576	QC	9.879
Reference Materials		
STD OXC145	Standard	0.206
STD OXC145	Standard	0.213
STD OXH139	Standard	1.311
STD OXH139	Standard	1.248
STD OXN134	Standard	7.693
STD OXN134	Standard	7.807
STD OXC145 Expected		0.212
STD OXN134 Expected		7.667
STD OXH139 Expected		1.312
BLK	Blank	<0.005
BLK	Blank	0.007
BLK	Blank	<0.005
BLK	Blank	<0.005
Prep Wash		
ROCK-TIM	Prep Blank	<0.005
ROCK-TIM	Prep Blank	0.006



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: October 09, 2018
Report Date: October 22, 2018
Page: 1 of 4

CERTIFICATE OF ANALYSIS

TIM18002128.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID: Batch #14
P.O. Number: Rush Batch # 14
Number of Samples: 79

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.

Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	74	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	5	Sort, label and box pulps			TIM
FA430	79	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	79	Environmental disposal charge-Fire assay lead waste			TIM
FA530	1	Lead collection fire assay 30G fusion - Grav finish	30	Completed	TIM

ADDITIONAL COMMENTS


JEFFREY CANNON
Geochemistry Department Supervisor



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Client: Aurelius Minerals
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Project: Mikwam (MK)
Report Date: October 22, 2018

Page: 2 of 4

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18002128.1

Method	WGHT	FA430	FA530
Analyte	Wgt	Au	Au
Unit	kg	ppm	gm/t
MDL	0.01	0.005	0.9
1649818	Drill Core	2.34	0.011
1649819	Drill Core	2.03	0.023
1649820	Drill Core	2.30	0.037
1649821	Drill Core	2.51	0.087
1649822	Drill Core	1.79	0.064
1649823	Drill Core	2.28	0.125
1649824	Drill Core	2.18	0.055
1649825	Drill Core	2.38	0.086
1649826	Drill Core	2.52	0.009
1649827	Rock	0.14	<0.005
1649828	Drill Core	2.17	<0.005
1649829	Drill Core	2.22	0.075
1649830	Drill Core	2.25	0.011
1649831	Drill Core	2.33	0.006
1649832	Pulp	0.06	6.676
1649833	Drill Core	1.79	0.005
1649834	Drill Core	2.34	<0.005
1649835	Drill Core	2.28	0.006
1649836	Drill Core	2.14	<0.005
1649837	Drill Core	2.34	<0.005
1649838	Drill Core	2.62	<0.005
1649839	Drill Core	2.25	0.005
1649840	Drill Core	2.01	0.009
1649841	Drill Core	2.43	0.017
1649842	Drill Core	2.09	0.027
1649843	Drill Core	2.25	0.098
1649844	Drill Core	2.38	0.220
1649845	Rock	0.13	<0.005
1649846	Drill Core	2.36	0.163
1649847	Drill Core	2.06	0.608



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Project: Mikwam (MK)
Report Date: October 22, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18002128.1

Method	WGHT	FA430	FA530
Analyte	Wgt	Au	Au
Unit	kg	ppm	gm/t
MDL	0.01	0.005	0.9
1649848	Drill Core	2.32	0.992
1649849	Pulp	0.07	0.323
1649850	Drill Core	2.21	0.440
1649851	Drill Core	2.71	0.424
1649852	Drill Core	2.03	0.736
1649853	Drill Core	2.27	0.350
1649854	Drill Core	2.46	0.036
1649855	Drill Core	2.13	0.019
1649856	Drill Core	1.97	0.014
1649857	Drill Core	2.24	0.024
1649858	Drill Core	2.28	0.422
1649859	Drill Core	2.58	1.732
1649860	Pulp	0.06	6.750
1649861	Drill Core	2.61	1.039
1649862	Drill Core	2.25	0.657
1649863	Drill Core	2.56	0.856
1649864	Drill Core	2.15	4.444
1649865	Drill Core	2.37	6.515
1649866	Drill Core	2.74	>10 22.1
1649867	Rock	0.13	0.040
1649868	Drill Core	2.40	2.378
1649869	Drill Core	2.62	0.791
1649870	Drill Core	3.04	0.109
1649871	Drill Core	2.16	0.163
1649872	Pulp	0.07	0.344
1649873	Drill Core	2.57	0.161
1649874	Drill Core	2.90	0.135
1649875	Drill Core	2.59	0.195
1649876	Drill Core	2.08	0.381
1649877	Drill Core	2.28	0.116



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Project: Mikwam (MK)
Report Date: October 22, 2018

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CERTIFICATE OF ANALYSIS

TIM18002128.1

Method	WGHT	FA430	FA530
Analyte	Wgt	Au	Au
Unit	kg	ppm	gm/t
MDL	0.01	0.005	0.9
1649878	Drill Core	2.13	0.185
1649879	Drill Core	2.34	0.257
1649880	Drill Core	2.36	1.093
1649881	Rock	0.15	<0.005
1649882	Drill Core	2.71	3.001
1649883	Drill Core	2.54	1.825
1649884	Drill Core	1.95	0.223
1649885	Pulp	0.05	6.711
1649886	Drill Core	2.48	0.451
1649887	Drill Core	2.08	1.225
1649888	Drill Core	2.30	0.881
1649889	Drill Core	3.53	0.143
1649890	Drill Core	2.35	0.314
1649891	Drill Core	2.10	0.096
1649892	Drill Core	2.21	0.025
1649893	Drill Core	3.55	0.029
1649894	Drill Core	1.95	<0.005
1649895	Drill Core	2.48	<0.005
1649896	Drill Core	2.32	<0.005



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Client: Aurelius Minerals
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Project: Mikwam (MK)
Report Date: October 22, 2018

Page: 1 of 2

Part: 1 of 1

QUALITY CONTROL REPORT

TIM18002128.1

Method	WGHT	FA430	FA530
Analyte	Wgt	Au	Au
Unit	kg	ppm	gm/t
MDL	0.01	0.005	0.9
Pulp Duplicates			
1649831	Drill Core	2.33	0.006
REP 1649831	QC		0.007
1649833	Drill Core	1.79	0.005
REP 1649833	QC		0.008
1649873	Drill Core	2.57	0.161
REP 1649873	QC		0.149
1649881	Rock	0.15	<0.005
REP 1649881	QC		<0.005
Core Reject Duplicates			
1649837	Drill Core	2.34	<0.005
DUP 1649837	QC		<0.005
1649871	Drill Core	2.16	0.163
DUP 1649871	QC		0.164
Reference Materials			
STD OXC145	Standard		0.211
STD OXC145	Standard		0.212
STD OXC145	Standard		0.213
STD OXC145	Standard		0.218
STD OXC145	Standard		0.220
STD OXC145	Standard		0.219
STD OXH139	Standard		1.359
STD OXH139	Standard		1.307
STD OXH139	Standard		1.248
STD OXH139	Standard		1.330
STD OXH139	Standard		1.283
STD OXH139	Standard		1.295
STD OXN134	Standard		7.145
STD OXN134	Standard		7.612



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Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: October 09, 2018
Report Date: October 18, 2018
Page: 1 of 3

CERTIFICATE OF ANALYSIS

TIM18002129.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID: Batch #17
P.O. Number: Rush Batch #17
Number of Samples: 44

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.

Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	41	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	3	Sort, label and box pulps			TIM
FA430	44	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	44	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: October 18, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18002129.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1636321	Drill Core	2.19 0.024
1636322	Drill Core	2.01 0.069
1636323	Drill Core	2.33 0.049
1636324	Drill Core	3.07 0.311
1636325	Drill Core	2.60 3.040
1636326	Drill Core	2.86 2.948
1636327	Drill Core	2.45 2.052
1636328	Pulp	0.06 6.739
1636329	Drill Core	2.07 0.497
1636330	Drill Core	1.99 0.398
1636331	Drill Core	2.51 1.611
1636332	Rock	0.12 0.010
1636333	Drill Core	2.05 0.336
1636334	Drill Core	2.55 2.133
1636335	Drill Core	2.79 1.557
1636336	Drill Core	2.21 0.301
1636337	Drill Core	2.20 0.569
1636338	Drill Core	2.21 0.444
1636339	Drill Core	2.33 1.705
1636340	Drill Core	2.29 1.844
1636341	Drill Core	2.45 0.595
1636342	Pulp	0.06 0.327
1636343	Drill Core	2.53 4.057
1636344	Drill Core	2.07 0.274
1636345	Drill Core	2.24 0.232
1636346	Drill Core	2.13 0.121
1636347	Drill Core	2.06 0.274
1636348	Drill Core	2.46 0.332
1636349	Drill Core	2.01 0.115
1636350	Drill Core	2.11 0.141



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: October 18, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18002129.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1636351	Drill Core	2.04 0.047
1636352	Rock	0.16 <0.005
1636353	Drill Core	2.01 0.047
1636354	Drill Core	2.04 0.084
1636355	Drill Core	1.94 <0.005
1636356	Drill Core	2.45 0.009
1636357	Pulp	0.04 6.666
1636358	Drill Core	2.05 0.024
1636359	Drill Core	2.25 0.005
1636360	Drill Core	2.39 0.008
1636361	Drill Core	2.09 0.007
1636362	Drill Core	1.75 0.023
1636363	Drill Core	2.10 <0.005
1636364	Drill Core	2.23 0.008



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Project: Mikwam (MK)
Report Date: October 18, 2018

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QUALITY CONTROL REPORT

TIM18002129.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
Pulp Duplicates		
1636331	Drill Core	2.51 1.611
REP 1636331	QC	1.556
Core Reject Duplicates		
1636344	Drill Core	2.07 0.274
DUP 1636344	QC	0.270
Reference Materials		
STD OXC145	Standard	0.218
STD OXC145	Standard	0.220
STD OXC145	Standard	0.217
STD OXH139	Standard	1.330
STD OXH139	Standard	1.283
STD OXH139	Standard	1.237
STD OXN134	Standard	7.849
STD OXN134	Standard	7.682
STD OXN134	Standard	7.868
STD OXC145 Expected		0.212
STD OXN134 Expected		7.667
STD OXH139 Expected		1.312
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-TIM	Prep Blank	<0.005
ROCK-TIM	Prep Blank	<0.005



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PHONE (604) 253-3158

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: October 22, 2018
Report Date: October 27, 2018
Page: 1 of 2

CERTIFICATE OF ANALYSIS

TIM18002223.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID: Batch #25A
P.O. Number: Rush
Number of Samples: 11

SAMPLE DISPOSAL

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

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Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	11	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	0	Sort, label and box pulps			TIM
FA430	11	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	11	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS



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Client: **Aurelius Minerals**
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Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: October 27, 2018

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CERTIFICATE OF ANALYSIS

TIM18002223.1

	Method	WGHT	FA430
	Analyte	Wgt	Au
	Unit	kg	ppm
	MDL	0.01	0.005
1647986	Drill Core	1.68	0.037
1647987	Drill Core	2.21	<0.005
1647988	Drill Core	2.02	0.015
1647989	Drill Core	1.62	0.010
1647990	Rock	0.18	<0.005
1647991	Drill Core	2.52	0.016
1647992	Drill Core	2.52	0.010
1647993	Drill Core	2.41	0.011
1647994	Drill Core	2.61	0.006
1647995	Drill Core	2.11	0.007
1647996	Drill Core	2.18	0.020



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Project: Mikwam (MK)
Report Date: October 27, 2018

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QUALITY CONTROL REPORT

TIM18002223.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
Reference Materials		
STD OXC145	Standard	0.207
STD OXH139	Standard	1.306
STD OXN134	Standard	7.257
STD OXC145 Expected		0.212
STD OXN134 Expected		7.667
STD OXH139 Expected		1.312
BLK	Blank	<0.005
BLK	Blank	<0.005
Prep Wash		
ROCK-TIM	Prep Blank	<0.005
ROCK-TIM	Prep Blank	<0.005



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: October 22, 2018
Report Date: November 06, 2018
Page: 1 of 3

CERTIFICATE OF ANALYSIS

TIM18002224.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID: Batch #16A
P.O. Number: Rush
Number of Samples: 58

SAMPLE DISPOSAL

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	54	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	4	Sort, label and box pulps			TIM
FA430	58	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	58	Environmental disposal charge-Fire assay lead waste			TIM
FA530	1	Lead collection fire assay 30G fusion - Grav finish	30	Completed	TIM

ADDITIONAL COMMENTS

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Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi



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Project: Mikwam (MK)
Report Date: November 06, 2018

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CERTIFICATE OF ANALYSIS

TIM18002224.1

Method	WGHT	FA430	FA530
Analyte	Wgt	Au	Au
Unit	kg	ppm	gm/t
MDL	0.01	0.005	0.9
1636365	Drill Core	2.68	0.008
1636366	Drill Core	2.15	<0.005
1636367	Drill Core	2.33	<0.005
1636368	Rock	0.18	<0.005
1636369	Drill Core	2.24	0.010
1636370	Drill Core	2.95	0.005
1636371	Drill Core	3.17	<0.005
1636372	Drill Core	2.03	0.009
1636373	Drill Core	2.13	0.007
1636374	Drill Core	2.62	0.008
1636375	Drill Core	2.18	<0.005
1636376	Drill Core	3.01	<0.005
1636377	Drill Core	2.61	0.006
1636378	Drill Core	2.52	0.006
1636379	Drill Core	2.63	0.006
1636380	Drill Core	1.64	0.192
1636381	Pulp	0.05	6.544
1636382	Drill Core	2.63	0.008
1636383	Drill Core	1.91	<0.005
1636384	Drill Core	2.63	0.080
1636385	Drill Core	2.50	1.391
1636386	Drill Core	2.50	0.086
1636387	Drill Core	2.49	0.020
1636388	Drill Core	2.52	0.055
1636389	Drill Core	2.52	0.011
1636390	Drill Core	2.86	3.355
1636391	Drill Core	2.48	2.116
1636392	Drill Core	2.74	1.430
1636393	Drill Core	2.56	1.149
1636394	Pulp	0.05	6.617



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Project: Mikwam (MK)
Report Date: November 06, 2018

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CERTIFICATE OF ANALYSIS

TIM18002224.1

Method	WGHT	FA430	FA530
Analyte	Wgt	Au	Au
Unit	kg	ppm	gm/t
MDL	0.01	0.005	0.9
1636395	Drill Core	2.61	0.026
1636396	Drill Core	2.90	0.022
1636397	Drill Core	2.97	0.016
1636398	Drill Core	2.14	0.040
1636399	Drill Core	3.39	0.015
1636400	Rock	0.11	<0.005
1636401	Drill Core	2.82	0.009
1636402	Drill Core	2.67	0.025
1636403	Drill Core	2.33	0.020
1636404	Drill Core	2.82	0.029
1636405	Pulp	0.07	>10 12.0
1636406	Drill Core	2.63	1.571
1636407	Drill Core	2.35	0.016
1636408	Drill Core	2.34	0.047
1636409	Drill Core	2.30	0.083
1636410	Drill Core	2.52	0.067
1636411	Drill Core	2.38	0.014
1636412	Drill Core	2.14	0.009
1636413	Drill Core	2.56	0.014
1636414	Drill Core	2.70	0.011
1636415	Rock	0.22	<0.005
1636416	Drill Core	2.18	0.007
1636417	Drill Core	2.39	0.006
1636418	Drill Core	2.26	0.009
1636419	Pulp	0.06	6.368
1636420	Drill Core	2.51	0.017
1636421	Drill Core	2.22	0.010
1636422	Drill Core	2.43	0.008



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625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: November 06, 2018

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Part: 1 of 1

QUALITY CONTROL REPORT

TIM18002224.1

Method	WGHT	FA430	FA530
Analyte	Wgt	Au	Au
Unit	kg	ppm	gm/t
MDL	0.01	0.005	0.9
Pulp Duplicates			
1636367	Drill Core	2.33	<0.005
REP 1636367	QC		0.006
1636375	Drill Core	2.18	<0.005
REP 1636375	QC		<0.005
Core Reject Duplicates			
1636382	Drill Core	2.63	0.008
DUP 1636382	QC		0.005
1636416	Drill Core	2.18	0.007
DUP 1636416	QC		0.006
Reference Materials			
STD OXC145	Standard		0.198
STD OXC145	Standard		0.207
STD OXH139	Standard		1.359
STD OXH139	Standard		1.306
STD OXN134	Standard		7.237
STD OXN134	Standard		7.257
STD OXP116	Standard		15.3
STD OXQ90	Standard		25.0
STD OXQ90	Standard		24.6
STD OXC145 Expected		0.212	
STD OXN134 Expected		7.667	
STD OXH139 Expected		1.312	
STD OXP116 Expected			14.92
STD OXQ90 Expected			24.88
BLK	Blank	<0.005	
BLK	Blank	<0.005	
BLK	Blank	<0.005	
BLK	Blank	<0.005	



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Project: Mikwam (MK)
Report Date: November 06, 2018

Page: 2 of 2 Part: 1 of 1

QUALITY CONTROL REPORT

TIM18002224.1

		WGHT	FA430	FA530
		Wgt	Au	Au
		kg	ppm	gm/t
		0.01	0.005	0.9
BLK	Blank			<0.9
Prep Wash				
ROCK-TIM	Prep Blank		<0.005	
ROCK-TIM	Prep Blank		<0.005	



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Client: Aurelius Minerals
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Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: October 22, 2018
Report Date: November 06, 2018
Page: 1 of 5

CERTIFICATE OF ANALYSIS

TIM18002225.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID: Batch #17A
P.O. Number: Rush
Number of Samples: 113

SAMPLE DISPOSAL

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	106	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	7	Sort, label and box pulps			TIM
FA430	113	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	113	Environmental disposal charge-Fire assay lead waste			TIM
FA530	1	Lead collection fire assay 30G fusion - Grav finish	30	Completed	TIM

ADDITIONAL COMMENTS

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Invoice To: Aurelius Minerals
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Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi



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Project: Mikwam (MK)
Report Date: November 06, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18002225.1

Method	WGHT	FA430	FA530
Analyte	Wgt	Au	Au
Unit	kg	ppm	gm/t
MDL	0.01	0.005	0.9
1636423	Drill Core	2.58	0.014
1636424	Drill Core	2.55	0.016
1636425	Drill Core	2.69	0.009
1636426	Drill Core	1.85	0.006
1636427	Drill Core	2.54	0.007
1636428	Pulp	0.11	6.549
1636429	Drill Core	2.44	0.007
1636430	Drill Core	2.40	0.006
1636431	Drill Core	2.10	0.007
1636432	Drill Core	2.46	0.010
1636433	Drill Core	2.51	0.009
1636434	Drill Core	2.32	0.008
1636435	Drill Core	1.83	0.006
1636436	Drill Core	2.54	0.005
1636437	Drill Core	2.13	0.109
1636438	Drill Core	2.59	0.008
1636439	Drill Core	2.06	0.006
1636440	Drill Core	2.17	0.007
1636441	Drill Core	2.41	0.011
1636442	Drill Core	2.33	0.012
1636443	Drill Core	2.48	0.007
1636444	Drill Core	2.21	0.093
1636445	Drill Core	2.25	0.006
1636446	Drill Core	2.70	0.013
1636447	Drill Core	2.50	0.007
1636448	Drill Core	2.12	0.009
1636449	Pulp	0.05	6.394
1636450	Drill Core	2.37	0.017
1636451	Drill Core	2.22	0.015
1636452	Drill Core	2.31	0.050



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Project: Mikwam (MK)
Report Date: November 06, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18002225.1

Method	WGHT	FA430	FA530
Analyte	Wgt	Au	Au
Unit	kg	ppm	gm/t
MDL	0.01	0.005	0.9
1636453	Drill Core	2.14	0.006
1636454	Drill Core	2.67	0.007
1636455	Drill Core	2.91	0.019
1636456	Rock	0.13	<0.005
1636457	Drill Core	2.01	0.007
1636458	Drill Core	2.82	<0.005
1636459	Drill Core	1.99	0.012
1636460	Drill Core	2.22	0.007
1636461	Drill Core	2.31	0.014
1636462	Drill Core	2.94	0.005
1636463	Drill Core	2.43	0.006
1636464	Drill Core	2.22	<0.005
1636465	Pulp	0.07	>10 12.0
1636466	Drill Core	2.11	0.026
1636467	Drill Core	2.52	0.006
1636468	Drill Core	3.18	<0.005
1636469	Drill Core	2.20	0.008
1636470	Drill Core	1.72	0.008
1636471	Drill Core	2.10	0.008
1636472	Drill Core	2.34	0.008
1636473	Rock	0.17	<0.005
1636474	Drill Core	2.34	0.010
1636475	Drill Core	2.06	0.012
1636476	Drill Core	2.45	0.009
1636477	Drill Core	2.27	0.013
1636478	Drill Core	2.16	0.007
1636479	Drill Core	2.24	0.020
1636480	Drill Core	2.26	0.011
1636481	Drill Core	2.14	0.008
1636482	Pulp	0.06	6.553



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Project: Mikwam (MK)
Report Date: November 06, 2018

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Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18002225.1

Method	WGHT	FA430	FA530
Analyte	Wgt	Au	Au
Unit	kg	ppm	gm/t
MDL	0.01	0.005	0.9
1636483	Drill Core	2.20	0.012
1636484	Drill Core	2.24	0.009
1636485	Drill Core	2.30	0.020
1636486	Drill Core	2.17	0.025
1636487	Drill Core	2.11	0.012
1636488	Drill Core	2.21	0.012
1636489	Drill Core	2.18	0.012
1636490	Drill Core	2.27	0.010
1636491	Drill Core	2.43	0.013
1636492	Drill Core	2.10	0.009
1636493	Drill Core	2.00	0.007
1636494	Pulp	0.06	6.343
1636495	Drill Core	2.67	0.009
1636496	Drill Core	2.24	0.008
1636497	Drill Core	2.22	<0.005
1636498	Drill Core	2.57	<0.005
1636499	Drill Core	2.50	<0.005
1636500	Drill Core	2.32	<0.005
1647951	Drill Core	2.34	0.006
1647952	Drill Core	2.50	0.008
1647953	Rock	0.13	<0.005
1647954	Drill Core	1.83	0.007
1647955	Drill Core	2.55	0.009
1647956	Drill Core	2.58	0.005
1647957	Drill Core	2.01	<0.005
1647958	Drill Core	2.94	0.006
1647959	Drill Core	2.41	0.006
1647960	Drill Core	2.00	0.007
1647961	Drill Core	2.30	0.012
1647962	Drill Core	2.53	0.011



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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: November 06, 2018

Page: 5 of 5

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18002225.1

Method	WGHT	FA430	FA530
Analyte	Wgt	Au	Au
Unit	kg	ppm	gm/t
MDL	0.01	0.005	0.9
1647963	Rock	0.11	<0.005
1647964	Drill Core	1.94	<0.005
1647965	Drill Core	2.04	0.013
1647966	Drill Core	2.26	<0.005
1647967	Drill Core	2.04	0.006
1647968	Drill Core	1.41	0.009
1647969	Drill Core	1.46	0.013
1647970	Drill Core	1.54	0.010
1647971	Drill Core	2.45	0.012
1647972	Drill Core	2.30	0.008
1647973	Drill Core	2.33	0.007
1647974	Pulp	0.06	6.431
1647975	Drill Core	2.24	0.014
1647976	Drill Core	2.00	0.012
1647977	Drill Core	1.82	0.008
1647978	Drill Core	2.58	0.019
1647979	Drill Core	2.18	0.011
1647980	Drill Core	2.58	0.007
1647981	Drill Core	2.19	0.007
1647982	Drill Core	2.43	0.006
1647983	Drill Core	2.29	0.010
1647984	Pulp	0.07	0.320
1647985	Drill Core	2.25	0.015



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: November 06, 2018

Page: 1 of 2

Part: 1 of 1

QUALITY CONTROL REPORT

TIM18002225.1

Method	WGHT	FA430	FA530
Analyte	Wgt	Au	Au
Unit	kg	ppm	gm/t
MDL	0.01	0.005	0.9
Pulp Duplicates			
1636430	Drill Core	2.40	0.006
REP 1636430	QC		0.007
1636482	Pulp	0.06	6.553
REP 1636482	QC		I.S.
Core Reject Duplicates			
1636437	Drill Core	2.13	0.109
DUP 1636437	QC		0.110
1636471	Drill Core	2.10	0.008
DUP 1636471	QC		0.009
1647955	Drill Core	2.55	0.009
DUP 1647955	QC		<0.005
Reference Materials			
STD OXC145	Standard		0.209
STD OXC145	Standard		0.207
STD OXC145	Standard		0.201
STD OXH139	Standard		1.315
STD OXH139	Standard		1.318
STD OXN134	Standard		7.264
STD OXN134	Standard		7.356
STD OXP116	Standard		15.3
STD OXQ90	Standard		25.0
STD OXQ90	Standard		24.6
STD OXC145 Expected		0.212	
STD OXN134 Expected		7.667	
STD OXH139 Expected		1.312	
STD OXP116 Expected			14.92
STD OXQ90 Expected			24.88
BLK	Blank		<0.005



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PHONE (604) 253-3158

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: November 06, 2018

Page: 2 of 2

Part: 1 of 1

QUALITY CONTROL REPORT

TIM18002225.1

		WGHT	FA430	FA530
		Wgt	Au	Au
		kg	ppm	gm/t
		0.01	0.005	0.9
BLK	Blank		<0.005	
BLK	Blank		<0.005	
BLK	Blank		<0.005	
BLK	Blank		0.008	
BLK	Blank		0.005	
BLK	Blank			<0.9
Prep Wash				
ROCK-TIM	Prep Blank		<0.005	
ROCK-TIM	Prep Blank		<0.005	



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

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: October 29, 2018
Report Date: November 08, 2018
Page: 1 of 3

CERTIFICATE OF ANALYSIS

TIM18002299.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID: Batch #16B
P.O. Number: Rush
Number of Samples: 56

SAMPLE DISPOSAL

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

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	51	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	5	Sort, label and box pulps			TIM
FA430	56	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	56	Environmental disposal charge-Fire assay lead waste			TIM

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: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi


JEFFREY CANNON
Geochemistry Department Supervisor

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: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: November 08, 2018

Page: 2 of 3

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18002299.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
1647997	Drill Core	2.68 0.060
1647998	Drill Core	1.30 0.040
1647999	Drill Core	2.38 0.018
1648000	Drill Core	2.36 0.021
1648001	Drill Core	2.33 0.019
1648002	Rock	0.20 <0.005
1648003	Drill Core	1.96 0.055
1648004	Drill Core	2.53 0.017
1648005	Drill Core	2.44 0.005
1648006	Drill Core	2.23 <0.005
1648007	Drill Core	2.12 <0.005
1648008	Drill Core	2.32 <0.005
1648009	Pulp	0.06 6.875
1648010	Drill Core	2.37 <0.005
1648011	Drill Core	2.29 <0.005
1648012	Drill Core	2.41 0.011
1648013	Drill Core	2.15 0.027
1648014	Drill Core	2.25 0.041
1648015	Drill Core	2.39 0.031
1648016	Drill Core	2.52 0.028
1648017	Pulp	0.07 6.046
1648018	Drill Core	2.48 0.022
1648019	Drill Core	2.51 0.019
1648020	Drill Core	2.35 0.015
1648021	Drill Core	2.57 <0.005
1648022	Drill Core	1.92 <0.005
1648023	Drill Core	2.47 <0.005
1648024	Drill Core	2.31 <0.005
1648025	Drill Core	2.27 <0.005
1648026	Pulp	0.07 6.663



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: November 08, 2018

Page: 3 of 3

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18002299.1

	Method	WGHT	FA430
Analyte		Wgt	Au
Unit		kg	ppm
MDL		0.01	0.005
1648027	Drill Core	2.39	0.009
1648028	Drill Core	1.81	0.006
1648029	Drill Core	2.58	0.044
1648030	Rock	0.23	<0.005
1648031	Drill Core	2.37	0.078
1648032	Drill Core	2.08	0.014
1648033	Drill Core	2.28	0.057
1648034	Drill Core	2.18	0.082
1648035	Pulp	0.06	6.573
1648036	Drill Core	2.52	0.016
1648037	Drill Core	2.22	0.014
1648038	Drill Core	2.01	0.011
1648039	Drill Core	1.88	0.010
1648040	Drill Core	2.04	0.009
1648041	Drill Core	1.70	0.008
1648042	Drill Core	2.53	0.015
1648043	Drill Core	2.21	0.007
1648044	Drill Core	2.37	0.007
1648045	Drill Core	1.86	0.010
1648046	Pulp	0.06	6.516
1648047	Drill Core	2.26	0.014
1648048	Drill Core	2.73	0.017
1648049	Drill Core	1.69	0.013
1648050	Drill Core	2.28	0.015
1648051	Drill Core	1.69	0.016
1648052	Drill Core	1.59	0.012



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

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: November 08, 2018

Page: 1 of 1

Part: 1 of 1

QUALITY CONTROL REPORT

TIM18002299.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
Pulp Duplicates		
1648024	Drill Core	2.31 <0.005
REP 1648024	QC	<0.005
1648051	Drill Core	1.69 0.016
REP 1648051	QC	0.013
Core Reject Duplicates		
1648007	Drill Core	2.12 <0.005
DUP 1648007	QC	<0.005
1648041	Drill Core	1.70 0.008
DUP 1648041	QC	0.007
Reference Materials		
STD OXC145	Standard	0.218
STD OXC145	Standard	0.209
STD OXH139	Standard	1.300
STD OXH139	Standard	1.318
STD OXN134	Standard	7.796
STD OXN134	Standard	7.695
STD OXC145 Expected		0.212
STD OXN134 Expected		7.667
STD OXH139 Expected		1.312
BLK	Blank	<0.005
BLK	Blank	<0.005
BLK	Blank	<0.005
BLK	Blank	<0.005
Prep Wash		
ROCK-TIM	Prep Blank	<0.005
ROCK-TIM	Prep Blank	<0.005



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PHONE (604) 253-3158

Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: October 29, 2018
Report Date: November 03, 2018
Page: 1 of 2

CERTIFICATE OF ANALYSIS

TIM18002300.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID: Batch #11A
P.O. Number: Rush
Number of Samples: 8

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.

Invoice To: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6
Canada

CC: Jeremy Niemi

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-500	7	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	1	Sort, label and box pulps			TIM
FA430	8	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	8	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS



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: **Aurelius Minerals**
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: November 03, 2018

Page: 2 of 2

Part: 1 of 1

CERTIFICATE OF ANALYSIS

TIM18002300.1

	Method	WGHT	FA430
	Analyte	Wgt	Au
	Unit	kg	ppm
	MDL	0.01	0.005
1648053	Drill Core	1.54	<0.005
1648054	Drill Core	1.95	<0.005
1648055	Pulp	0.07	6.708
1648056	Drill Core	2.04	<0.005
1648057	Drill Core	2.30	<0.005
1648058	Drill Core	2.41	0.006
1648059	Rock	0.23	<0.005
1648060	Drill Core	2.58	0.010



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Client: Aurelius Minerals
625 Howe Street, Suite 1020
Vancouver British Columbia V6C 2T6 Canada

Project: Mikwam (MK)
Report Date: November 03, 2018

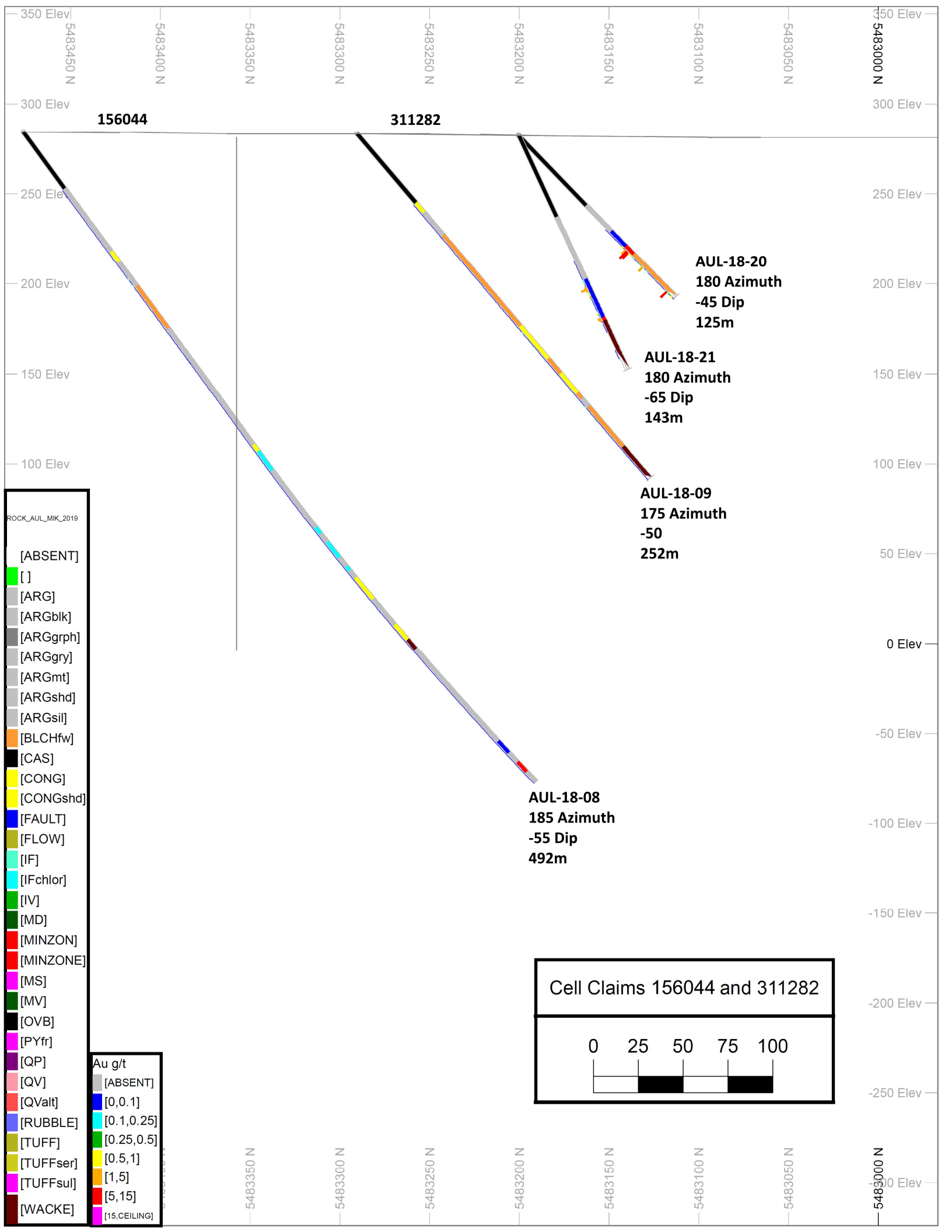
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Part: 1 of 1

QUALITY CONTROL REPORT

TIM18002300.1

Method	WGHT	FA430
Analyte	Wgt	Au
Unit	kg	ppm
MDL	0.01	0.005
Reference Materials		
STD OXC145	Standard	0.218
STD OXH139	Standard	1.300
STD OXN134	Standard	7.796
STD OXC145 Expected		0.212
STD OXN134 Expected		7.667
STD OXH139 Expected		1.312
BLK	Blank	<0.005
BLK	Blank	<0.005
Prep Wash		
ROCK-TIM	Prep Blank	<0.005
ROCK-TIM	Prep Blank	<0.005



156044

311282

AUL-18-20
180 Azimuth
-45 Dip
125m

AUL-18-21
180 Azimuth
-65 Dip
143m

AUL-18-09
175 Azimuth
-50
252m

AUL-18-08
185 Azimuth
-55 Dip
492m

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