Ontario

We are committed to providing accessible customer service.
If you need accessible formats or communications supports, please contact us.

Nous tenons à améliorer l’accessibilité des services à la clientèle.
Si vous avez besoin de formats accessibles ou d’aide à la communication, veuillez nous contacter.

Report for:

Aurelius Minerals Inc.

Assessment Report
Mikwam Project
Ontario, Canada

Authors:

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

December 23 2020

DATE AND SIGNATURES PAGE

This report is current as of its date of issue, 12 23 2020. See Section 11 for the certificate of the qualified person. The signature of the Qualified Person ("QP") is listed below.

"signed and sealed"

12 23 2020

Scott Zelligan, P.Geo. Date

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

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 2019. This includes Diamond Drilling, Induced Polarity Geophysical Survey, and supporting activities.

1.1.1 Diamond Drilling

One drill program was completed in 2019 on the Property. 10 holes were drilled beginning in February and ending in March (the “Winter Program”).

1.1.2 Geophysical Survey

A 19 Line, 25.7 line-km Induced Polarity (“IP”) Geophysical Survey was completed beginning 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. The Summer Program utilized a temporary camp set up 100m to the east of the creek and utilized helicopter support as well as access using an all-terrain Argo able to cross wet areas.

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.

Aurelius completed two drill programs in 2018 (Zelligan, 2018) totalling 6,615 metres. Gold mineralization was encountered in 23 of 27 holes.

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 29 days, 10 drillholes totalling 3083 m were completed. Eight holes were drilled in the area of the existing resource to follow-up results from 2018 drilling, test the mineralization limits, and to follow-up a previously untested historical IP anomaly (on-strike). All these holes hit mineralization. One hole was drilled to the south to test southern historical IP anomalies. One hole was drilled to the east near the original overburden drilling “discovery” hole.

1.5.2 Geophysical Survey – Summer Program

Over 19 days, 25.7 line-kms (19 lines) were surveyed by SJ Geophysics Ltd. Using a Volterra-2D Induced Polarization unit. The survey was conducted over the north-western portion of the Property.

1.6 RECOMMENDATIONS

In conclusion, the drill program has been judged as a success. All work was completed in a timely and efficient fashion, from a financing perspective. Gold mineralization was encountered in all holes and mineralization was extended along strike and at depth. Based on the results of the historical IP anomaly, as well as previous experience of the Aurelius management team, the IP survey in the Summer Program was designed to cover the northwest portion of the Property. The result appears to confirm existing assumptions and highlights numerous targets to be tested in future drill programs.

It is recommended that future work involves further drilling, to test continuity of the eastern portion of the main zone at Mikwam, and to test IP anomalies along the trend utilizing the targets generated from the IP survey and inversion. The program should be 10,000 m with a total cost of $3,000,000.

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.

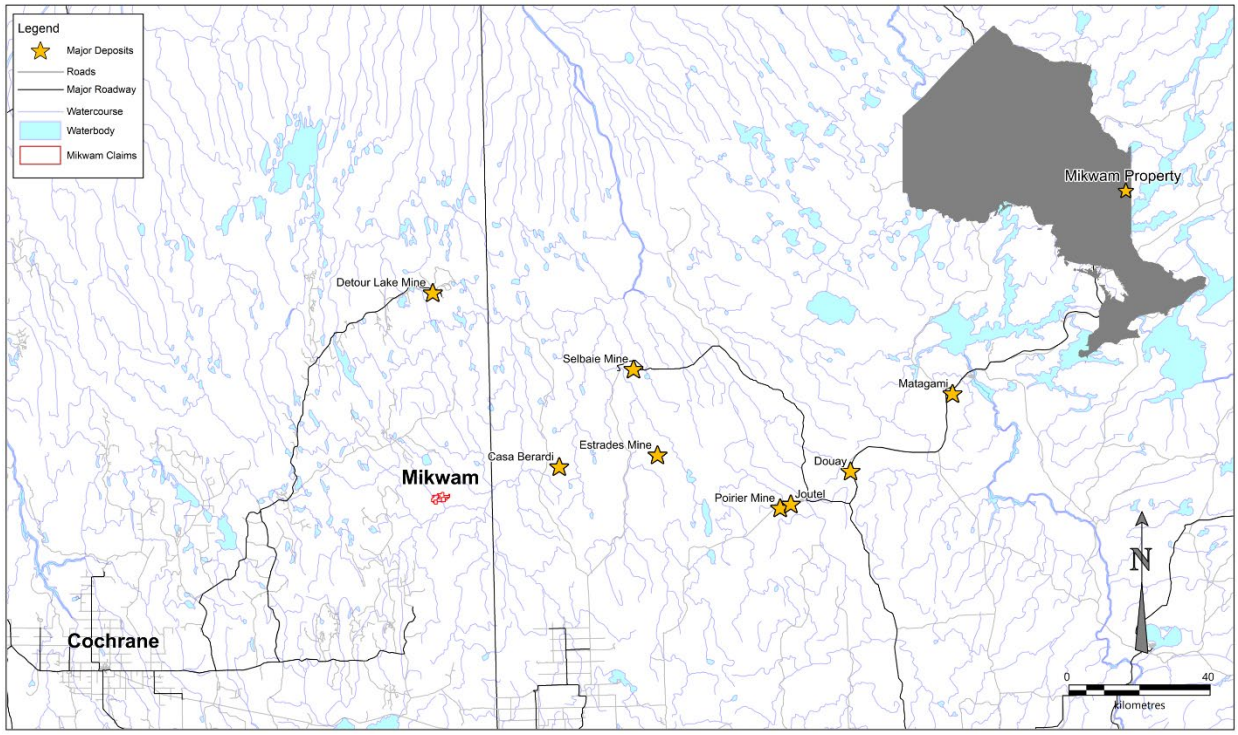
The author of this report is not qualified to provide extensive comment on legal issues, including status of tenure associated with the Project referred to in this Report.

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

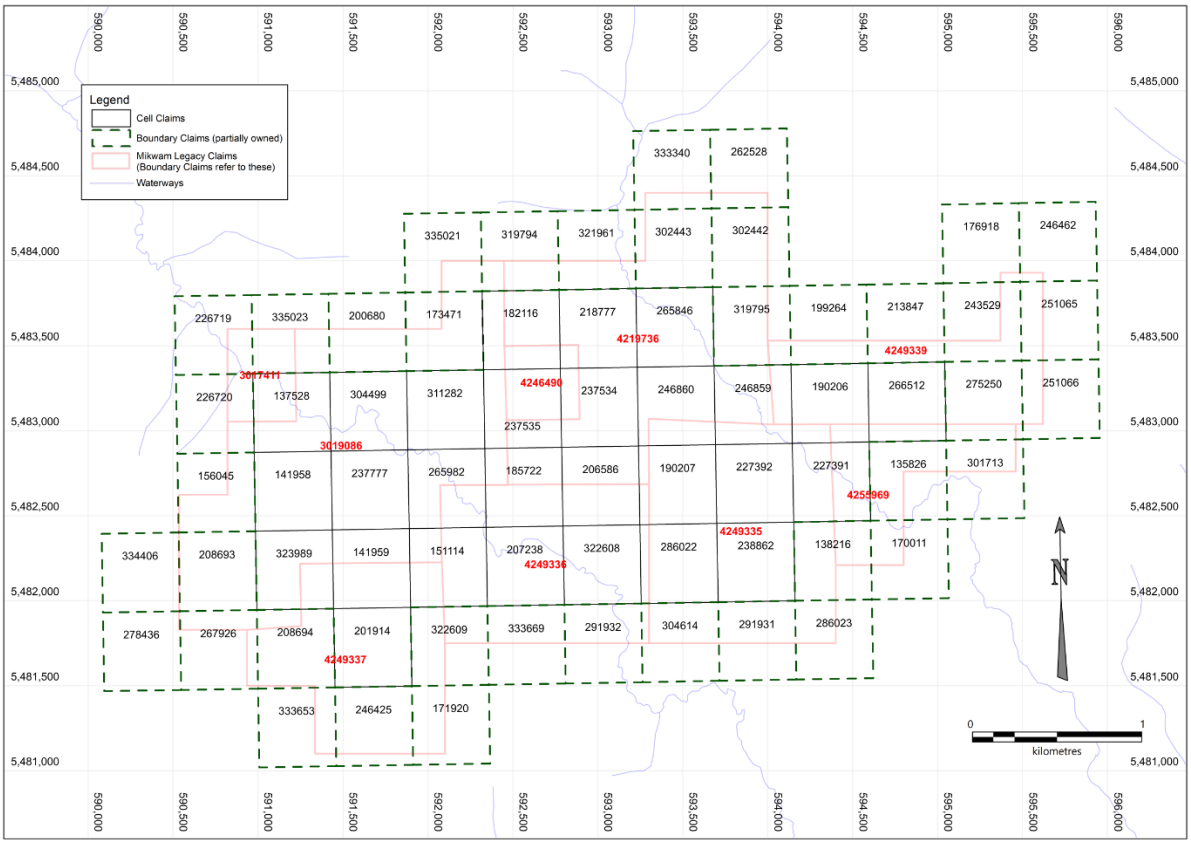
CLAIM NUMBER	CLAIM UNITS	HECTARES	RECORD DATE
3017411	1	21.7	2006-MAR-16
3019086	14	240	2005-FEB-01
4219736	11	187	2007-APR-24
4246490	1	18.8	2009-JAN-13
4249335	9	141	2009-NOV-17
4249336	7	114	2009-NOV-17
4249337	7	102	2009-NOV-17
4249339	6	88.4	2009-NOV-17
4255969	3	52.8	2011-NOV-15

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
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

TENURE ID	TOWNSHIP / AREA	TENURE TYPE	ANNIVERSARY DATE	OWNER
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)

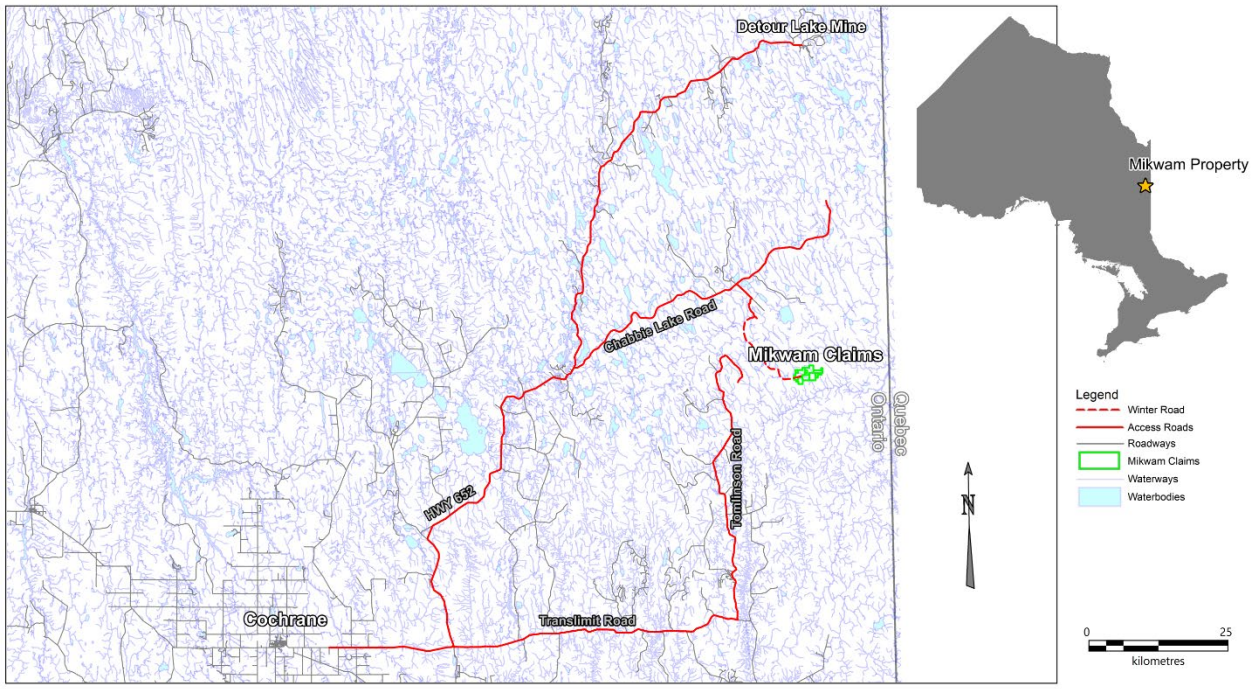


4 ACCESSIBILITY, CLIMATE, LOCAL RESOURCES, INFRASTRUCTURE AND PHYSIOGRAPHY

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.

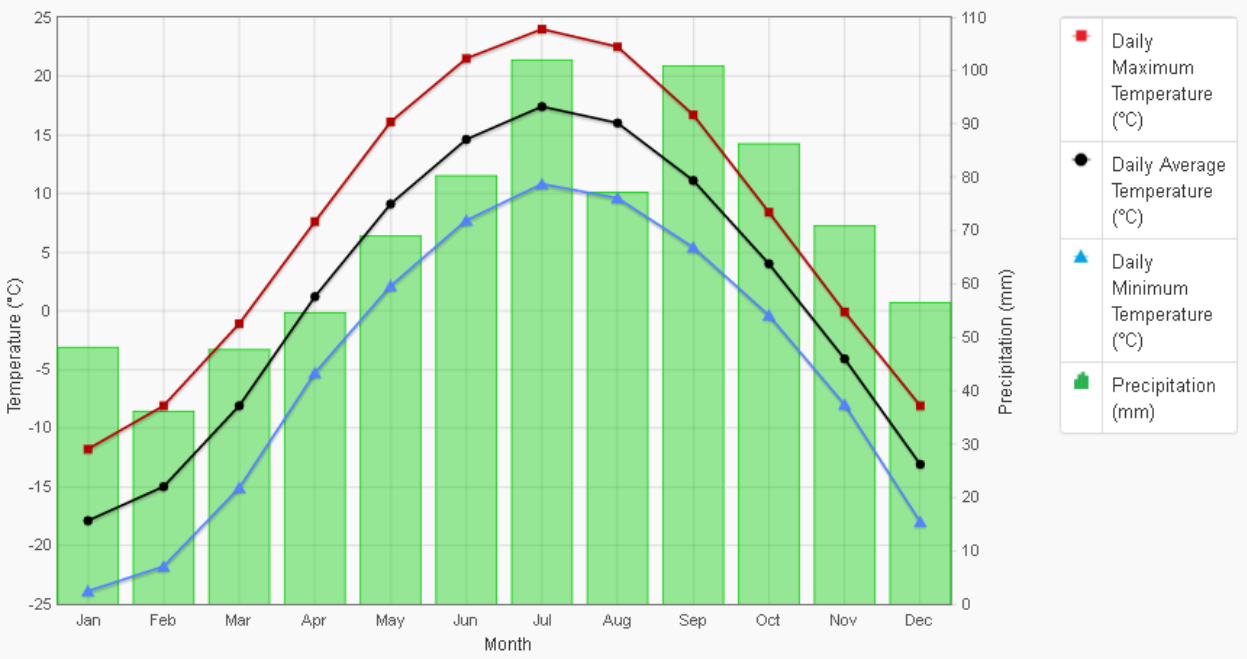
A temporary camp has been set up on the claims during winter programs, at the location where the winter road meets a creek on the Property. Summer programs by Aurelius have been based out of Cochrane.

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).
1988	Ingamar Exploration Limited	Burntbush	Airborne mag and VLF survey (56 line km).

Year	Company	Area	Event
1990	Mikwam J.V. (Pamorex, Noranda, Freewest)	Mikwam	Diamond drilling, 8 holes totaling 2326.3 m (MK-90 series).
1990	Noranda	Mikwam	IP survey (~9 line km).
1992	Mikwam J.V. (Trader Resources, Hemlo, Royal Oak)	Mikwam	Diamond drilling, 9 holes totaling 2597 m (MK-92 series).
1994	Mikwam J.V. (Trader Resources, Hemlo, Royal Oak)	Mikwam	Diamond drilling, 9 holes totaling 2893 m (MK-94 series).
1997	Mikwam J.V. (Highwood, Battle Mountain, Royal Oak)	Mikwam	Diamond drilling, 11 holes totaling 3670 m (MK-97 series).
1998	Mikwam J.V. (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).
2018	Aurelius Minerals Inc.	Mikwam	Diamond drilling, 27 holes totaling 6615 m (AUL-18 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

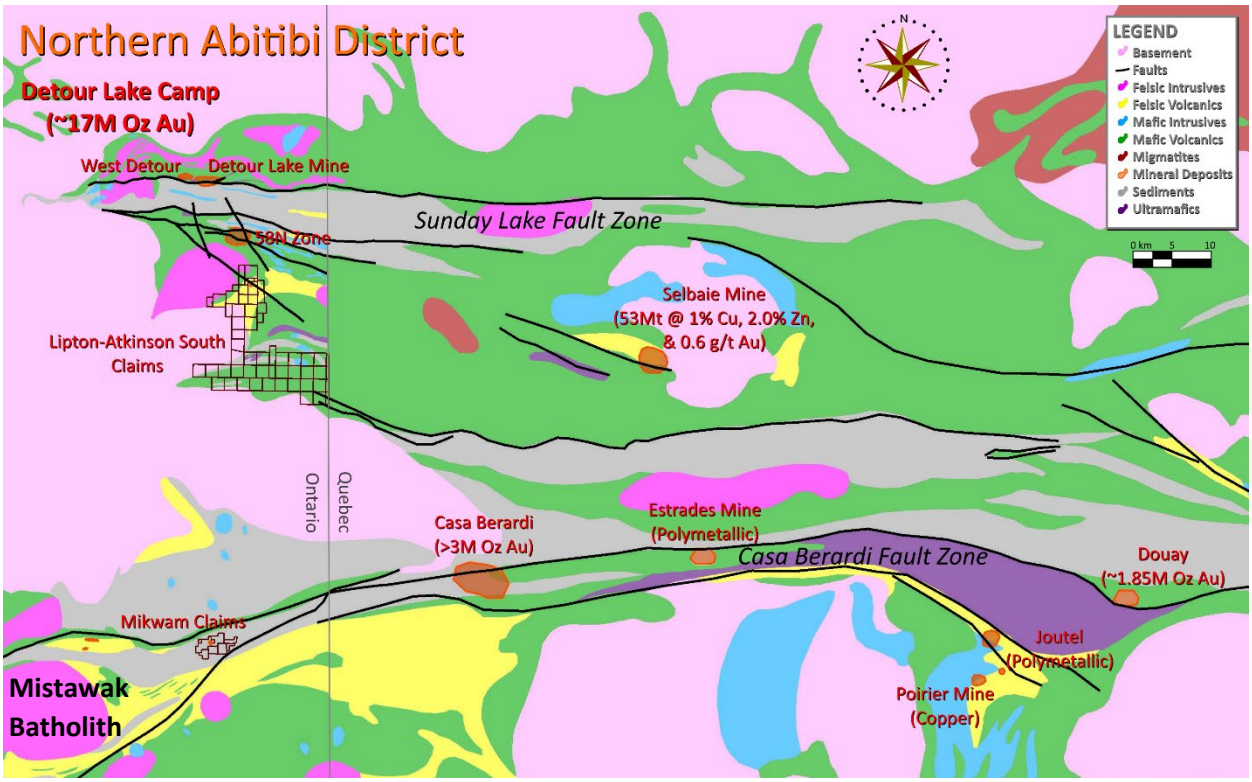
The Project is located in the northern portion of the Abitibi Greenstone Belt (Figure 6-1). It is underlain by Archean-aged volcanic, sedimentary, and intrusive rocks which have been regionally metamorphosed from greenschist to amphibolite facies. The Property has been interpreted as lying in the Harricana-Turgeon 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 enrichmed bands, and a stretching lineation which plunges from 70º to 80º 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.

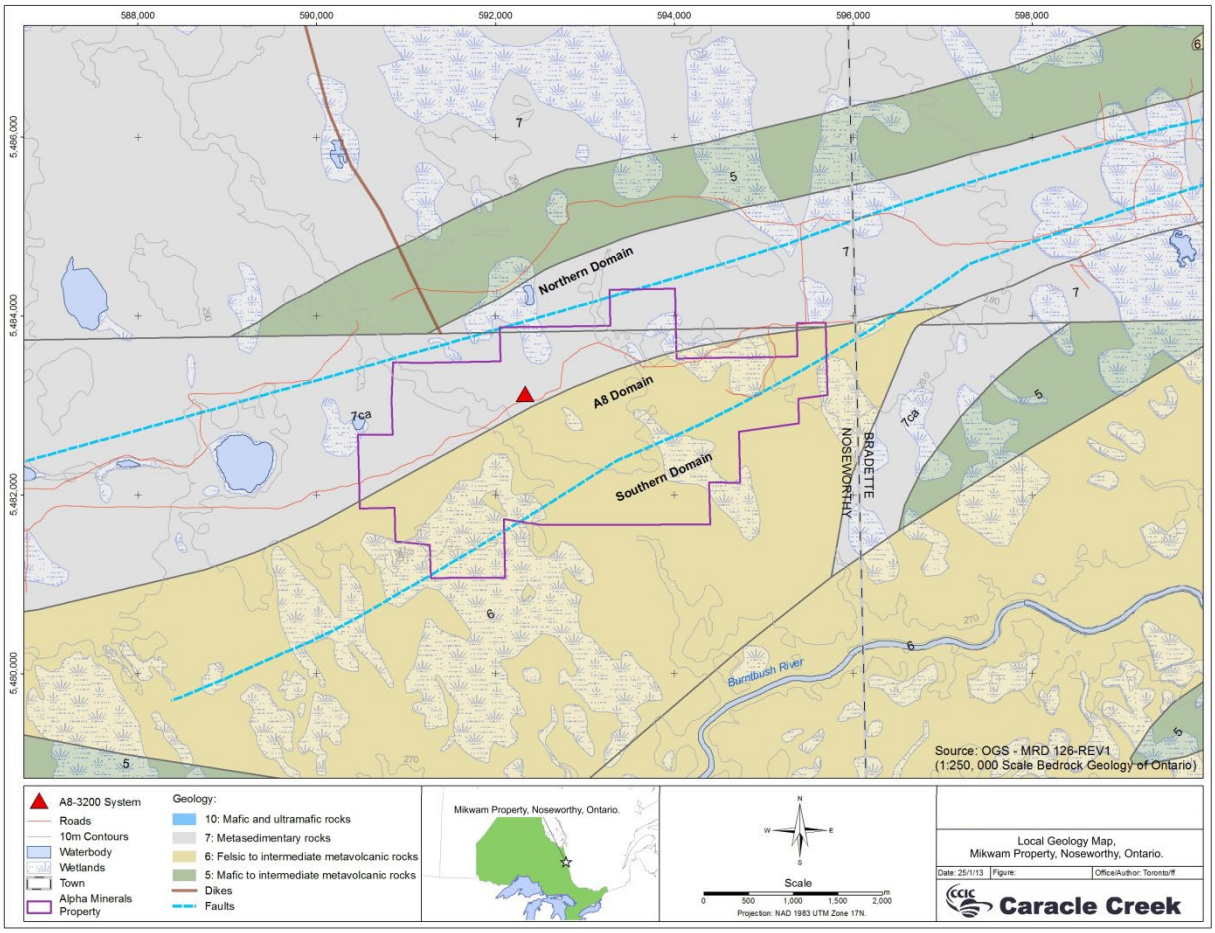
6.2 LOCAL GEOLOGY

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 schistosities 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.

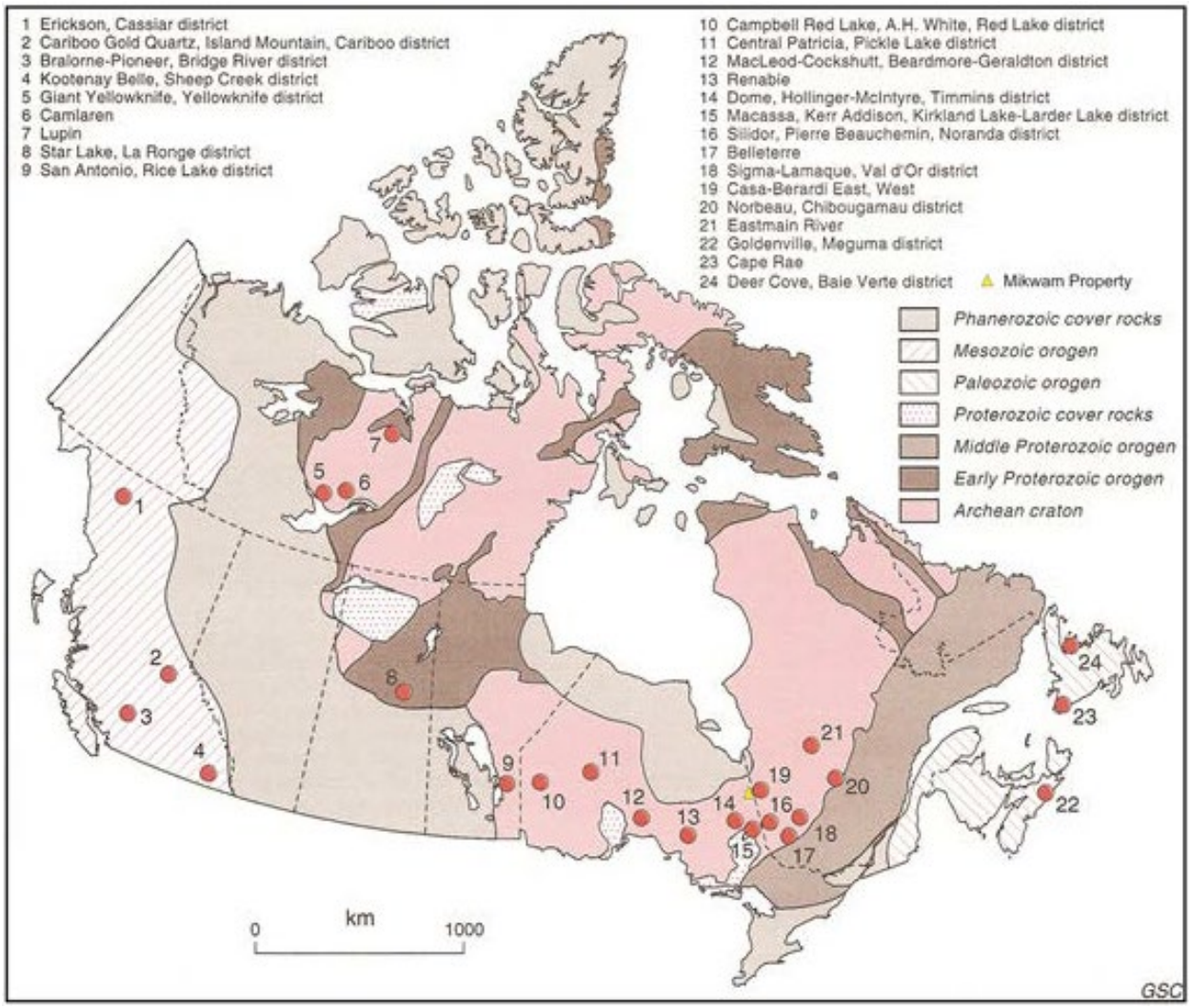
The mineralized zone is approximately 330 m long (east-west), 330 m wide (north-south) and 500 m deep and consists of eight lenses.

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 shears 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-MARCH)

9.1.1 Summary of Work Performed

- February 21st to March 21st, 2019 (29 days)
- Objective of program: to drill 10 holes, all holes were near to or in the existing resource area. Purpose of the holes was to further delineate high-grade zone intersected in 2018, test limits of zone (near surface, at depth), to test a previously untested historical IP anomaly just to the west of the resource, and to test a historical bedrock drilling result.
- Work performed by Norex 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 winter road, by truck. 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 3083 m (see Table 9-1).
- DGI Geoscience Inc. surveyed three of the holes during the drill campaign (AUL-19-29, AUL-19-30, AUL-19-33).

Table 9-1 2018 Winter Diamond Drillholes

DRILLHOLE	LOCATION (UTM NAD83 17N)	AZIMUTH	DIP	LENGTH	# OF SAMPLES	# OF ASSAYS
AUL-19-28	592278E 5483132N	180	-50	225	66	72
AUL-19-29	592294E 5483294N	180	-45	237	89	99
AUL-19-30	592294E 5483294N	180	-55	284	86	96
AUL-19-31	592327E 5483381N	183	-60	417	87	97
AUL-19-32	592327E 5483232N	180	-75	291	66	73
AUL-19-33	592336E 5483330N	180	-70	552	171	190
AUL-19-34	592285E 5482990N	180	-50	300	142	157
AUL-19-35	592709E 5483235N	180	-50	150	84	93
AUL-19-36	592279E 5483246N	180	-53	252	84	94
AUL-19-37	592327E 5483381N	180	-54	375	92	102

Note: In addition to the core sampling, 106 certified blanks and standards were inserted into the assay batches before delivery.

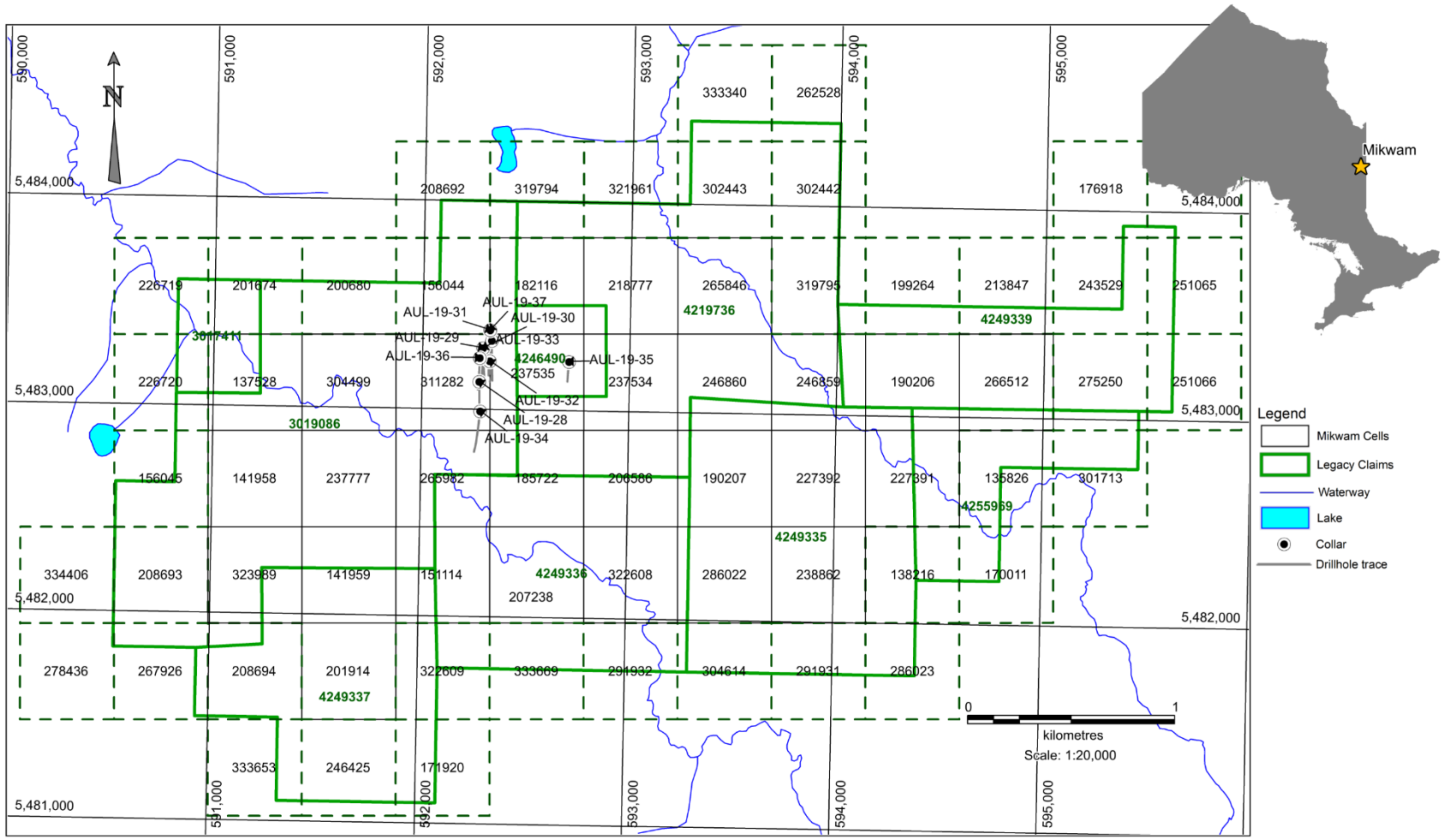
9.1.2 Location

All work was performed in the Noseworthy township. All claims are owned by Aurelius. The Cell numbers worked on are 182116, 237535, 265982, and 311282 (Legacy Claims 3019086 and 4246490). 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 2019 Winter Drill Program



9.1.3 Summary of Results

Eight of the ten holes were drilled in the Mikwam deposit. The holes have expanded the volume of gold mineralization at Mikwam at depth to below 380 m and further defined the zone along strike.

Holes AUL-19-28, 29, 30, 32, 36 and 37 were designed to bring the spacing between intersections to approximately 25 m in the upper 200 m of the deposit and to define the geological controls on the gold distribution. Holes AUL-19-31 and AUL-19-33 extend the gold mineralization and demonstrate the zone is open at depth. Hole AUL-19-33 is now the deepest intersection to date.

Hole AUL-19-30 intersected a wide (31.5 m approximate true width) zone of gold mineralization grading 3.46 g/t Au which includes two higher-grade zones grading greater than 9 g/t Au over widths of 4 m and 3 m. The high-grade zones displayed the characteristic coarse sulphide texture observed elsewhere in the Mikwam deposit.

Several holes; AUL-19-30, AUL-19-31, AUL-19-33 and AUL-19-37 intersected repetitions in the stratigraphy including multiple gold horizons. The gold grades are higher to the west which appears to be a regional fold hinge. This western hinge and potential additional hinges along the 4-kilometre-long trend will be the focus of future exploration campaigns.

The remaining two holes tested new exploration targets to the east and to the south. Hole AUL-19-35 was drilled approximately 400 m east and along strike from Mikwam. Historical work indicated the presence of gold from shallow drilling and surface sampling. The Company confirmed that a gold zone is present and occurs in the same stratigraphical setting as the Mikwam deposit.

Hole AUL-19-34 was drilled to the south of the Mikwam deposit and targeted a historical geophysical target (chargeability anomaly). Banded semi-massive to massive sulphides, dominantly pyrite, were encountered at the target. The sulphide zones were up to 20 cm wide and hosted in a tuff horizon, which is common in the Mikwam footwall. No significant gold mineralization was associated with sulphides.

The following highlights the results:

Table 9-2 Gold assay highlights in AUL-19-28 through AUL-19-37

Hole	From (m)	To (m)	Length (m)	Gold (g/t)
AUL-19-28	49.00	51.00	2.00	2.51
AUL-19-28	57.00	61.00	4.00	1.10
AUL-19-28	208.50	209.50	1.00	0.63
AUL-19-29	182.50	202.90	20.40	1.93
including	184.00	190.40	6.40	2.98
including	194.40	202.30	7.90	2.25
including	199.20	201.60	2.40	3.69
AUL-19-30	48.00	51.00	3.00	0.80
AUL-19-30	76.00	80.00	4.00	0.37
AUL-19-30	196.50	228.00	31.50	3.46
including	205.90	223.00	17.10	5.37
including	205.90	210.00	4.10	9.41
including	217.50	220.60	3.10	9.21
AUL-19-31	184.50	186.50	2.00	0.52

Hole	From (m)	To (m)	Length (m)	Gold (g/t)
AUL-19-31	248.00	258.00	10.00	1.99
AUL-19-31	355.00	370.00	15.00	1.65
including	358.00	369.00	11.00	2.19
including	359.00	364.00	5.00	2.84
AUL-19-32	197.50	199.10	1.60	0.37
AUL-19-32	205.00	222.00	17.00	1.98
including	208.30	211.20	2.90	6.34
AUL-19-33	222.00	234.75	12.75	1.27
AUL-19-33	373.00	406.70	33.70	1.15
including	382.20	383.60	1.40	4.02
including	404.40	406.70	2.30	2.71
AUL-19-34			NSV	
AUL-19-35	73.00	80.00	7.00	0.81
AUL-19-35	73.00	75.00	2.00	2.28
AUL-19-35	101.00	102.00	1.00	0.98
AUL-19-36	147.50	159.00	11.50	1.28
AUL-19-36	147.50	156.00	8.50	1.67
AUL-19-36	151.37	152.60	1.23	6.95
AUL-19-36	243.50	244.50	1.00	2.12
AUL-19-37	150.00	152.90	2.90	0.33
AUL-19-37	186.00	195.42	9.42	0.53
AUL-19-37	307.50	318.00	10.50	0.14

All drill logs can be found in the Appendices.

9.2 LINE CUTTING – SUMMER (AUGUST-SEPTEMBER)

Ranger Exploration of Connaught, Ontario was contracted to cut approximately 30 km of lines (<1.5 m width). Line cutting was performed from August 19th to September 28th, 2019. The start-end points of the cut lines (UTM NAD83 17N) are listed in Table 9-3. The work was performed under Exploration Permit PR-17-11070.

Table 9-3 Lines cut and surveyed in Summer 2019 (UTM NAD83 17N)

LINE	START COORDINATES	END COORDINATES	LENGTH
BASELINE (0N)	590899E 5483166N	593901E 5483254N	~3000 m
900E	590904E 5482514N	590895E 5483338N	~820 m
1100E	591125E 5482521N	591067E 5483507N	~990 m
1300E	591298E 5482526N	591312E 5483528N	~1000 m
1500E	591504E 5482554N	591473E 5483543N	~990 m
1700E	591781E 5482573N	591667E 5483560N	~990 m
1900E	591964E 5482592N	591868E 5483582N	~990 m
2100E	592078E 5482408N	592131E 5484002N	~1590 m
2200E	592200E 5482420N	592206E 5484007N	~1590 m
2300E	592288E 5482420N	592305E 5484018N	~1600 m
2400E	592400E 5482424N	592401E 5484021N	~1600 m
2500E	592502E 5482432N	592502E 5484020N	~1590 m
2600E	592614E 5482434N	592605E 5484023N	~1590 m
2700E	592699E 5482444N	592710E 5484026N	~1580 m
2900E	592902E 5482537N	592893E 5484013N	~1480 m
3100E	593109E 5483040N	593106E 5484026N	~990 m
3300E	593299E 5483032N	593304E 5484028N	~1000 m
3500E	593509E 5483027N	593505E 5484216N	~1190 m
3700E	593713E 5483020N	593690E 5484217N	~1200 m
3900E	593883E 5483004N	593896E 5484305N	~1300 m

9.3 GEOPHYSICS – SUMMER (SEPTEMBER)

The following section is taken or quoted from SJ Geophysics (2019).

9.3.1 Summary of Work Performed

- September 10th to September 28th, 2019 (19 days)
- Objective of program: survey as many line kms as possible within the budget, in order to map the electrical properties, resistivity and chargeability, of the subsurface rocks within the area of interest to assist with drill hole targeting.
- Work performed by SJ Geophysics Ltd.
- Work performed for Aurelius Minerals Inc.
- This was a “fly” program. All equipment and materials were transported to site via helicopter. All equipment and materials were removed from site via helicopter. A temporary tent camp was set up in the vicinity of the survey area. No rehabilitation was required other than removal of all materials and garbage produced during the program.
- 24.225 km of cross-lines and 1.5 km of base-lines were surveyed
- Instrument Specifics:
    - Volterra Acquisition Unit (Dabtube 7000 Series)
        - Input impedance : 20 MΩ
        - Input overvoltage protection: 5.6 V
        - ADC bit resolution: 24-bit
        - Number of inputs: 4
        - Selectable Sampling Rates (samples/second): 128000, 64000, 32000, 16000, 8000, 4000, 2000, 1000
        - Voltage sensitivity: Range: -5.0 to +5.0 V (24 bit)
    - GDD Tx II IP Transmitter
        - Input voltage: 120V / 60 Hz or 240V / 50Hz (optional)
        - Output power: 3.6 kW maximum
        - Output voltage: 150 to 2400 V
        - Output current: 0.030 to 10 A
        - Time domain: 1, 2, 4, 8 second on/off cycle.
- IP Method:

- The time domain IP technique energizes the ground by injecting square wave current pulses via a pair of current electrodes. During current injection, the apparent (bulk) resistivity of the ground is calculated from the measured primary voltage and the input current. Following current injection, a time decaying voltage is measured at the receiver electrodes. This IP effect measures the amount of polarizable (or “chargeable”) particles in the subsurface rock.
- Under ideal circumstances, high chargeability corresponds to disseminated metallic sulfides. Unfortunately, IP responses are rarely uniquely interpretable as other rock materials are also chargeable, such as some graphitic rocks, clays, and some metamorphic rocks (e.g., serpentinite). Therefore, it is prudent from a geological perspective to incorporate other data sets to assist in interpretation.
- IP and resistivity measurements are generally considered repeatable to within about five percent. However, changing field conditions, such as variable water content or electrode contact, reduce the overall repeatability. These measurements are influenced to a large degree by the rock materials near the surface or, more precisely, near the measurement electrodes. In the past, interpretation of a traditional IP pseudosection was often uncertain because strong responses located near the surface could mask a weaker one at depth. Geophysical inversion techniques help to overcome this uncertainty.

- Quality Control:
  - The Volterra-IP data go through a series of quality assurance checks both in the field and in the office to ensure that the data are of good quality. At the end of each acquisition day the recorded signal was downloaded from the Volterra acquisition units to a personal computer. The signals were then clipped to the GPS time windows of each current injection, lightly filtered for noise, and imported into SJ Geophysics' proprietary QA/QC software package called JavIP. This software package integrates location data with DCIP data in order to calculate the apparent resistivity and apparent chargeability values. JavIP contains interactive quality control tools to allow the field geophysicist to display decay curves, view a dot plot of the calculated parameters, and manually reject bad data points.
  - The majority of the data points flagged for removal were due to null-coupling, a phenomena typical in IP surveys related to the survey configuration. Null-coupling occurs when a receiver dipole is sub-parallel to lines of constant potential, leading to a significant decrease in signal strength and corresponding poor data quality. Additional data can also be deemed untrustworthy due to low signal quality or dipoles being inadvertently disconnected (usually due to animal activity).
  - After the first data quality review in the field, the database was delivered to SJ Geophysics' head office for a second review. The data were then

carefully checked to ensure that erroneous data points had been removed and were not passed along to the final stage of processing: the inversion.

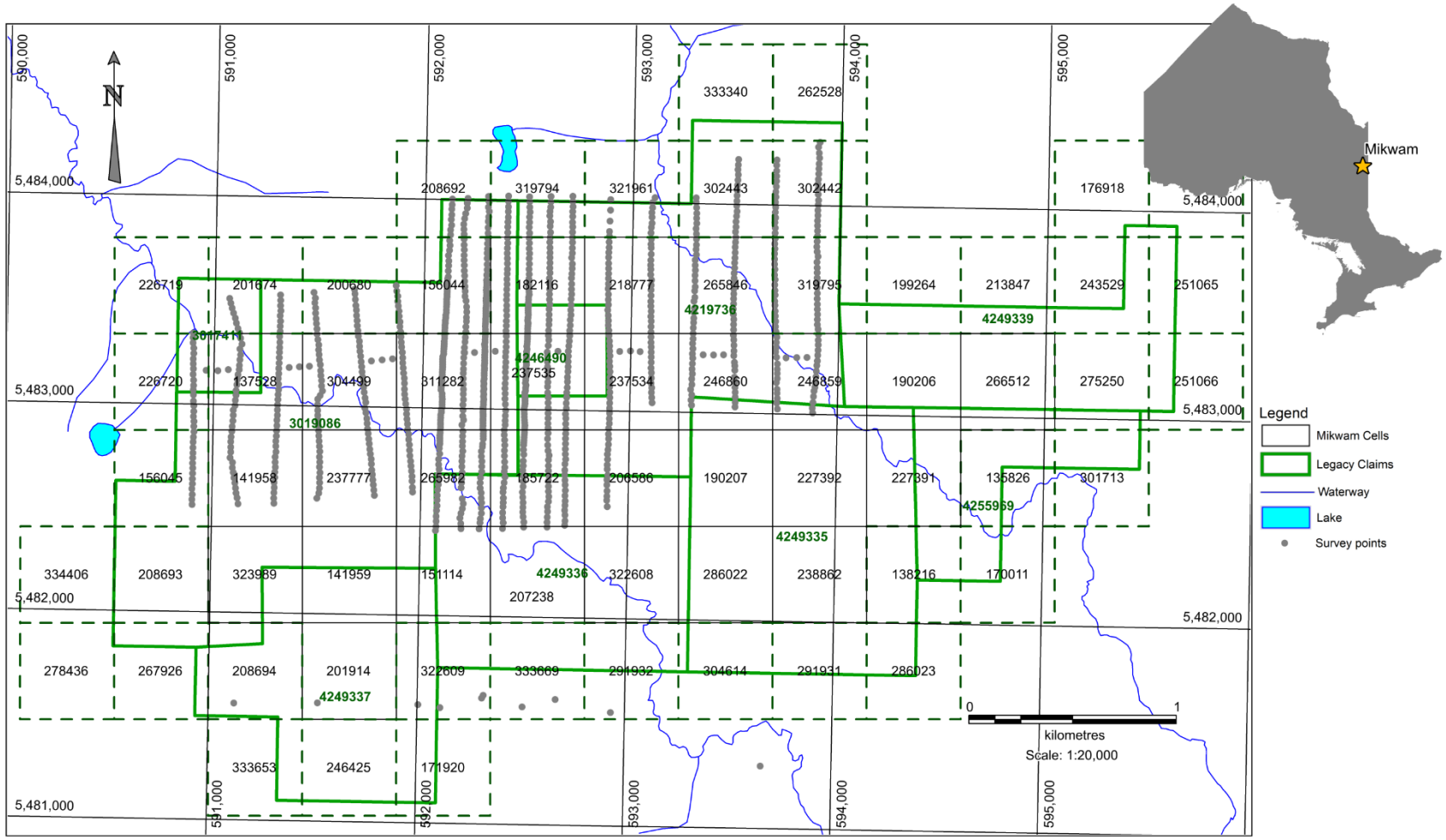
- Geophysical Inversion:
  - The purpose of geophysical inversion is to estimate the 3D distribution of subsurface physical properties (density, resistivity, chargeability, and magnetic susceptibility) from a series of geophysical measurements collected at the surface. Unfortunately this is a challenging problem – the subsurface distribution of physical properties is complex and only a finite number of measurements can be collected. These complications lead to an under-determined problem. As a result, there are many different possible 3D physical property models that can be obtained which mathematically fit the observed data. Utilizing known geological and geophysical information to evaluate the model allows the best or most geologically realistic model to be selected and leads to a better understanding of the subsurface.
  - In general, multiple inversions are carried out for each dataset and the resultant inversion models are compared with known information to evaluate the model. For example, known geology, drill assays, the estimated depth of investigation, and the quality of the input data are all used during the evaluation. The most geologically reasonable model that fits the data is then chosen as the best model. When available, additional information such as geological boundaries and down-hole geophysical data can be incorporated into the inversion in order to constrain the inversion model.
  - Once the final inversion model is selected, the model is gridded and mapped for interpretation. Typically, cross-sections and plan maps are created, sliced at different depths beneath the surface. The inversion results can be visualized in 3D using open source software packages such as Mayavi and Paraview in both 2D and 3D views. Additional data can then be overlain to aid in interpretation and help facilitate the identification of potential drilling targets.

9.3.2 Location

All work was performed in the Noseworthy township. All claims are owned by Aurelius. The Cell numbers worked on are 226719, 226720, 156045, 201674, 137528, 141958, 200680, 304499, 237777, 208692, 156044, 311282, 265982, 319794, 182116, 237535, 185722, 321961, 218777, 237534, 206586, 302443, 265846, 246860, 302442, 319795, and 246859 (Legacy Claim 3017411, 3019086, 4246490, 4219736, 4249336, and 4249335).

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

Figure 9-2 Map of 2019 Summer IP Survey



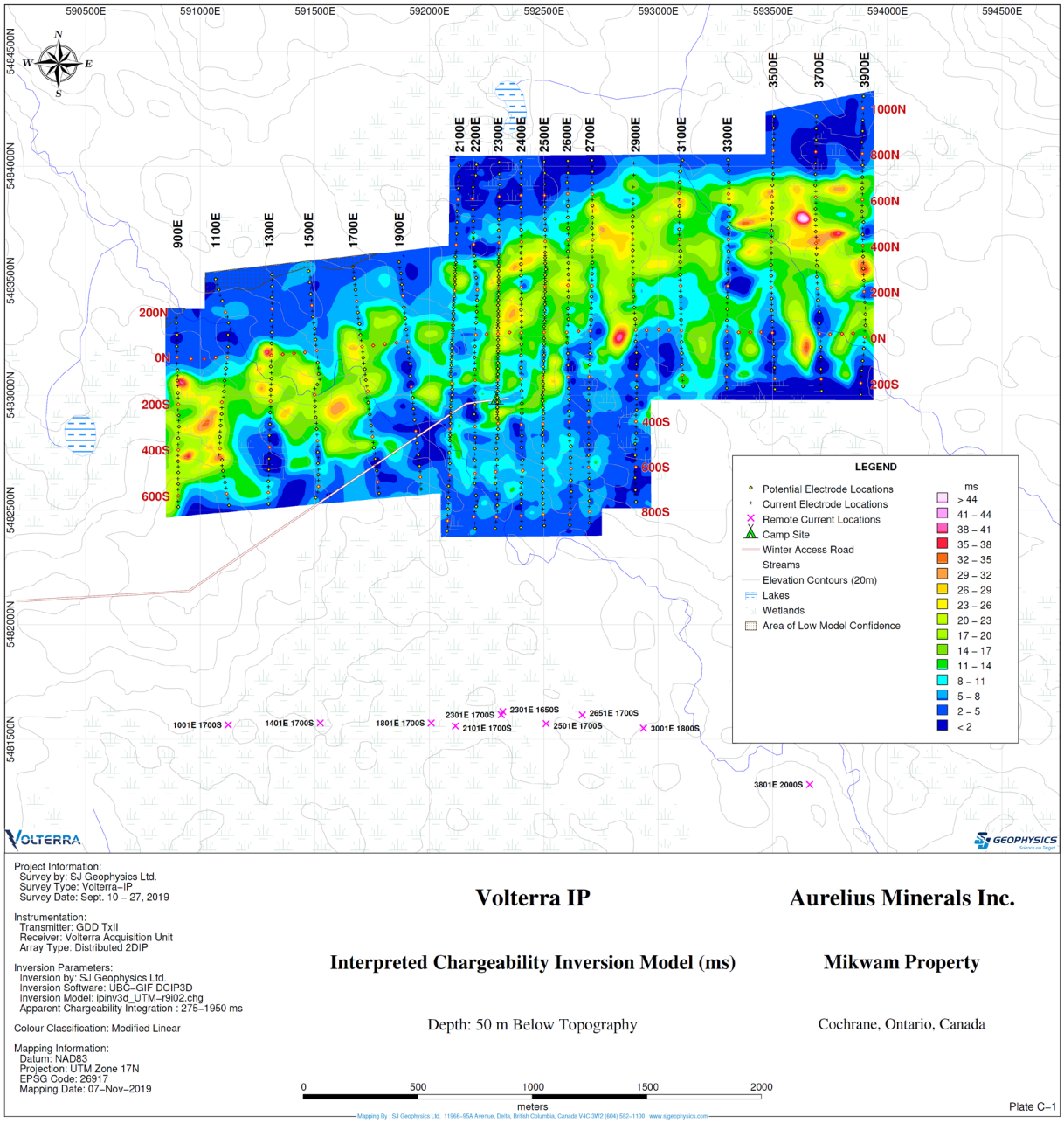
9.3.3 Summary of Results

Location data was of good quality. The terrain and vegetative cover aided in GPS measurements. The IP data collected was of high-quality. A very defined boundary exists in the data trending east-northeast at approximately 60˚, separating the data into two distinct zones. All lines cross the boundary. To the south of this boundary, voltage-potentials were easily maintained for all current injections along the lines which resulted in clean decay curves and high-quality apparent resistivity measurements. North of the boundary it was difficult to get a measurable voltage-potential when the current injections were south of the stations. This was accounted for in data processing.

The resulting inversion can be used by Aurelius to target extensions of the existing zones as well as begin to identify the most prospective areas for additional zones to be discovered.

The final report by SJ Geophysics (2019) can be found in the Appendices. The following two maps display the chargeability and resistivity plan maps produced from the results.

Figure 9-3 Plan Map of IP Survey displaying Interpreted Chargeability



Project Information:
Survey by: SJ Geophysics Ltd.
Survey Type: Volterra–IP
Survey Date: Sept. 10 – 27, 2019

Instrumentation:
Transmitter: GDD TxII
Receiver: Volterra Acquisition Unit
Array Type: Distributed 2DIP

Inversion Parameters:
Inversion by: SJ Geophysics Ltd.
Inversion Software: UBC–GIF DCIP3D
Inversion Model: ipinv3d_UTM–r9l02.chg
Apparent Chargeability Integration : 275–1950 ms

Colour Classification: Modified Linear

Mapping Information:
Datum: NAD83
Projection: UTM Zone 17N
EPSG Code: 26917
Mapping Date: 07–Nov–2019

Volterra IP

Interpreted Chargeability Inversion Model (ms)

Depth: 50 m Below Topography

Aurelius Minerals Inc.

Mikwam Property

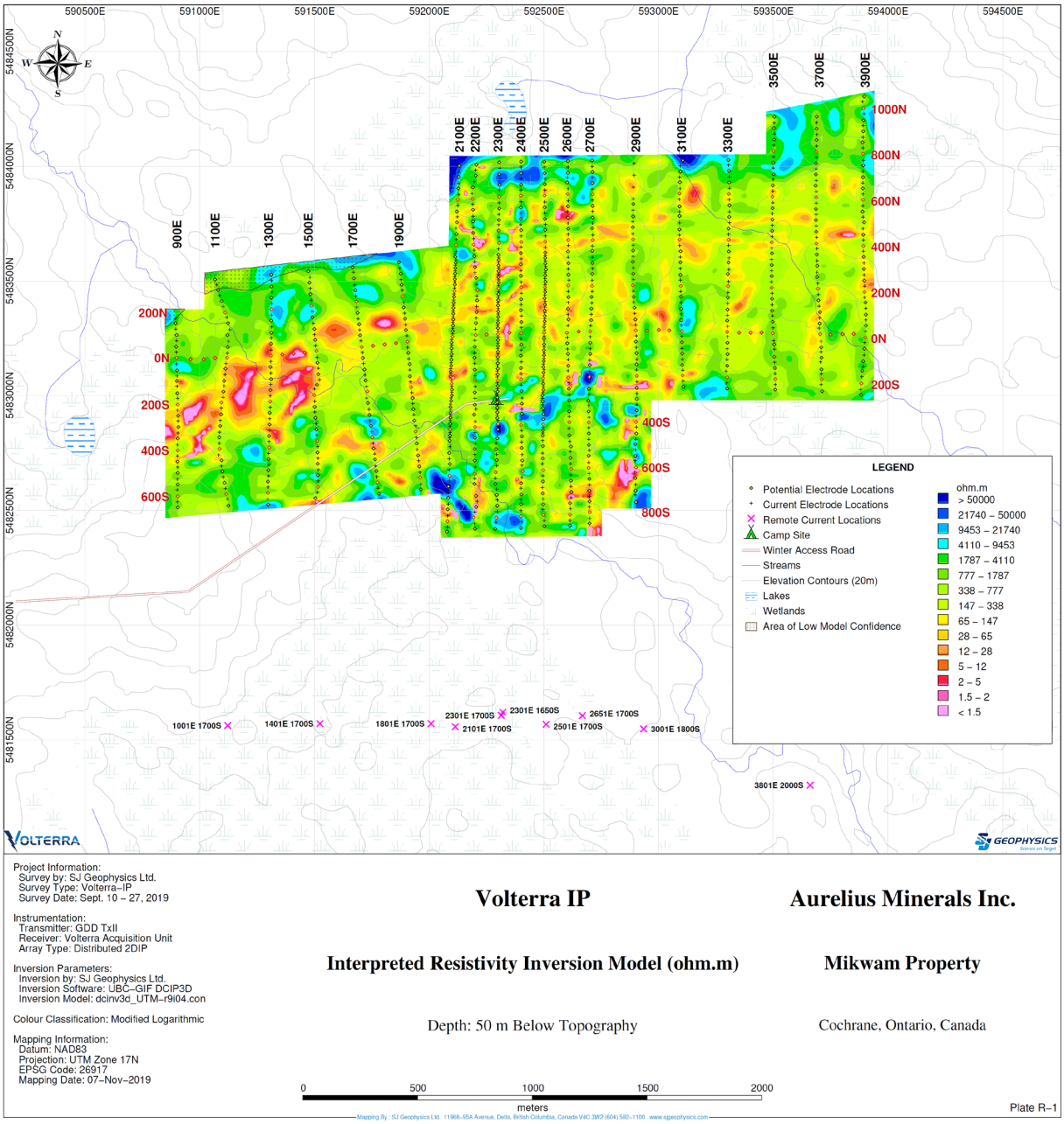
Cochrane, Ontario, Canada

0 500 1000 1500 2000
meters

Plate C–1

Mapping By : SJ Geophysics Ltd. 11966–95A Avenue, Delta, British Columbia, Canada V4C 3W2 (604) 582–1100 www.sjgeophysics.com

Figure 9-4 Plan Map of IP Survey displaying Interpreted Resistivity



Project Information:
Survey by: SJ Geophysics Ltd.
Survey Type: Volterra–IP
Survey Date: Sept. 10 – 27, 2019

Instrumentation:
Transmitter: GDD TxII
Receiver: Volterra Acquisition Unit
Array Type: Distributed 2DIP

Inversion Parameters:
Inversion by: SJ Geophysics Ltd.
Inversion Software: UBC–GIF DCIP3D
Inversion Model: dcinv3d_UTM–r9i04.con

Colour Classification: Modified Logarithmic

Mapping Information:
Datum: NAD83
Projection: UTM Zone 17N
EPSG Code: 26917
Mapping Date: 07–Nov–2019

Volterra IP

Interpreted Resistivity Inversion Model (ohm.m)

Depth: 50 m Below Topography

Aurelius Minerals Inc.

Mikwam Property

Cochrane, Ontario, Canada

0 500 1000 1500 2000
meters

Mapping By : SJ Geophysics Ltd. 11966–95A Avenue, Delta, British Columbia, Canada V4C 3W2 (604) 582–1100 www.sjgeophysics.com

Plate R–1

9.4 DRILL SECTIONS

The following are drill sections for all holes drilled in 2019.

Figure 9-5 Drill Section 1 (592300E, 100m burden)

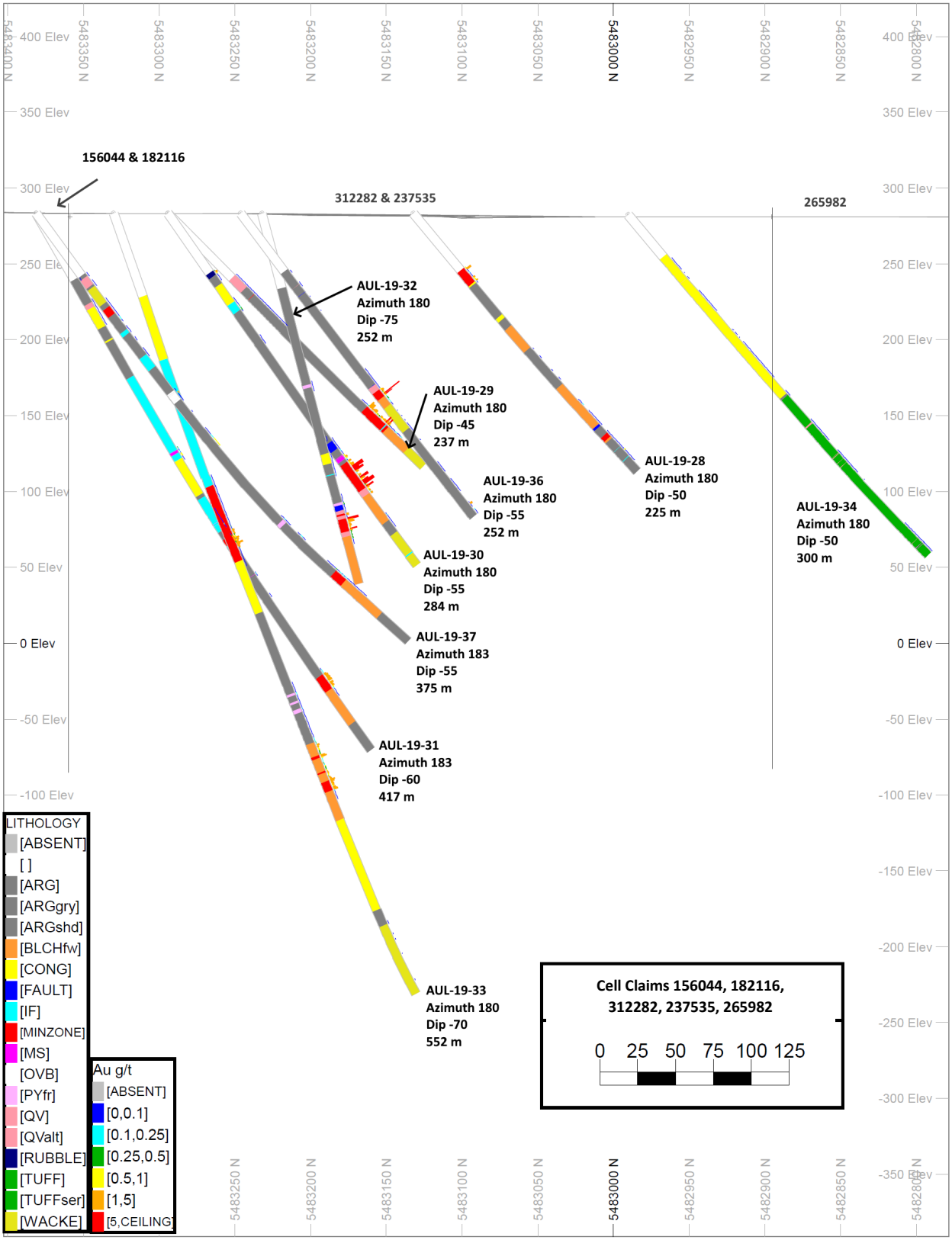
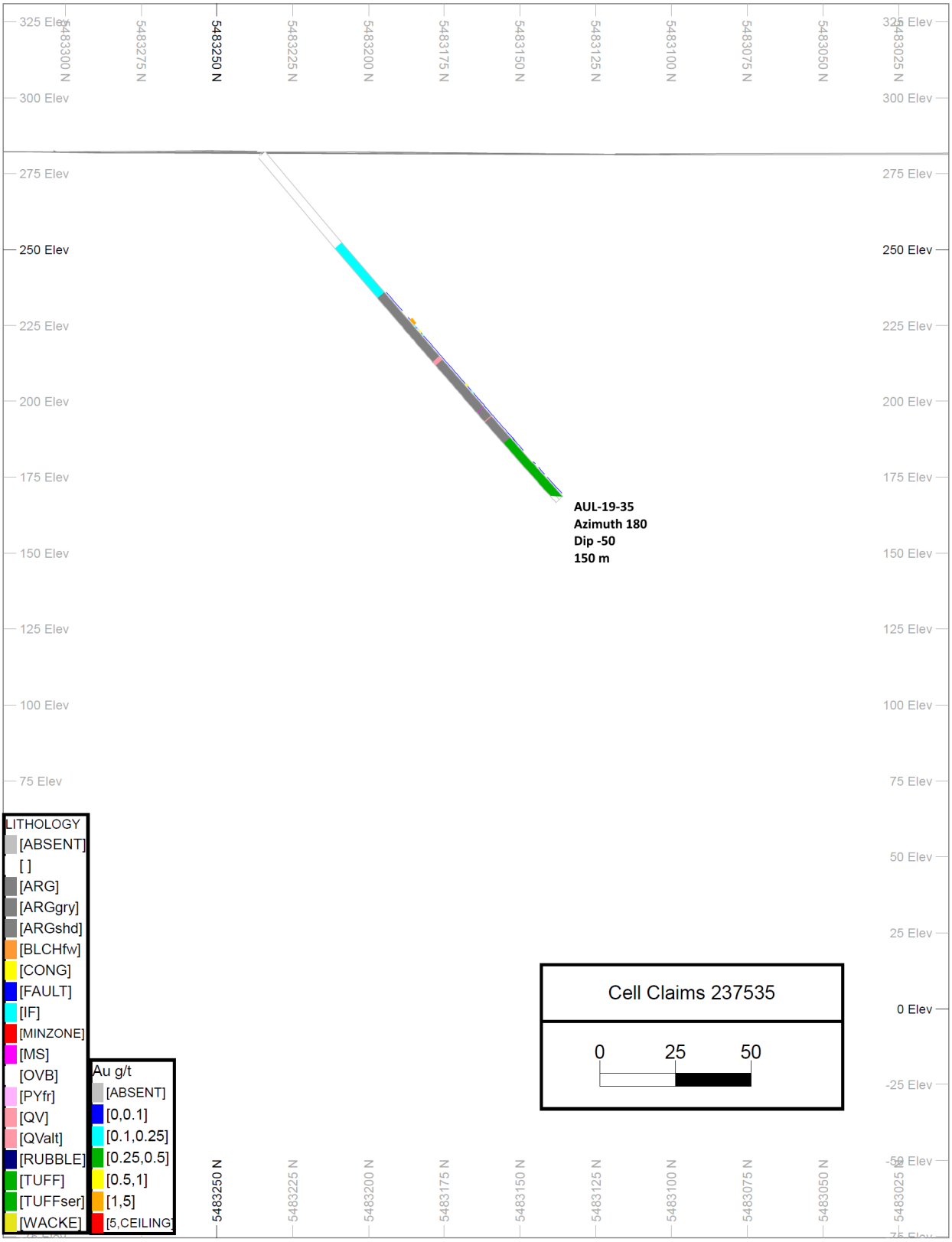


Figure 9-6 Drill Section 2 (592700E, 100m burden)



9.5 CONCLUSIONS AND RECOMMENDATIONS

In conclusion, the drill program and IP survey have been judged as successes. All work was completed in a timely and efficient fashion, from a financing perspective. Gold mineralization was encountered in 9 of 10 holes during the drilling campaign. A refinement of the new exploration model has been made based on the results. The IP results outline favourable areas for additional mineralization along the trend of the existing zones.

It is recommended that future work involve further drilling, targeting based on previous drilling (expansion of mineralized zone) as well as IP results (expansion of mineralized zone and testing of new targets).

Proposed Program:

- Drilling program
    - Meters – 10,000
    - Number of samples – 10,000
    - Estimated Cost - $3,000,000

10 REFERENCES

Anwyll, Drew; Croal, Andrew G.; McMullen, Jacques; and Ritchie, David G.; 2016. Detour Lake Mine – NI 43-101 Technical Report for Detour Gold Corporation. Effective Date January 25, 2016.

Archambault-Giroux, J; De Los Rios, H.; Blier, A; Roy, P; McDonald, D; 2019. Technical Report for the Casa Berardi Mine, Northwestern Quebec, Canada. Prepared by Hecla Quebec Inc. and dated April 1, 2019.

Jensen, K.A.; 2003. Technical review of the Mikwam Property, Burntbush River area, NTS 32E/05 and 32E/12, Noseworthy and Bradette Townships, Larder Lake Mining Division, Ontario, Canada and Dieppe Township, Quebec, Canada for Essendon Solutions Inc., K.A. Jensen and Associates Ltd., Timmins, Ontario, 68p.

Jobin-Bevans, S; Harnois, L; Baker, J; 2016. Independent Technical Report – Mikwam Gold Property – Noseworthy Township, Ontario, Canada. Prepared by Caracle Creek International Consulting Inc. for Galena International Resources Ltd., and dated August 1, 2016.

Johns, G.W.; 1982. Geology of the Burntbush-Detour Lake Area, District of Cochrane. Ontario Geological Survey Report 199, 82p.

Lacroix, S., Simard, A., Pilote, P., and Dube, L.; 1990. Regional Geological Elements and Minerals Resources of the Harricana-Turgeon Belt, Abitibi of NW Quebec in The Northwestern Quebec Polymetallic Belt: A Summary of 60 Years of Mining Exploration, CIM, Special Volume 43, p313-326.

Percival, J.A and Easton, R.M.; 2007. GEOLOGY OF THE CANADIAN SHIELD IN ONTARIO: AN UPDATE; Geological Survey of Canada, Open File 5511, Ontario Geological Survey, Miscellaneous Release--Data 216, Ontario Power Generation, Report Number 06819-REP-01200-10158-R00. Scale 1: 1 000 000. 1 CD-ROM.

Pilote, G.F., Guha, J., Daigneault, R., Robert, F., Cloutier, J. and Golightly, P.; 1990. The Structural Evolution of the Casa Berardi East Gold Deposits, Casa Berardi Township, Quebec in The Northwestern Quebec Polymetallic Belt: A Summary of 60 Years of Mining Exploration, CIM, Special Volume 43, p337-348.

Pressacco, R.; 1994. Mikwam Joint Venture - Technical Report on the 1994 Diamond Drilling Program and Proposed 1995 Exploration Budget (internal report - Royal Oak Mines Inc.).

SJ Geophysics; 2019. Volterra-2D Induced Polarization on the Mikwam Property, Logistics Report Prepared for Aurelius Minerals Inc., Reported prepared September 2019.

Veillette, J.J.; 1989. Ice Movements, Till Sheets and Glacial Transport in Abitibi – Timiskaming, Quebec and Ontario. G.S.C Paper 89-20, p139-154.

Zelligan, S.; 2019. Assessment Report Mikwam Project Ontario, Canada. Report for Aurelius Minerals Inc., December 24, 2019.

Websites

Canadian Climate Normals, 2016. "Canadian Climate Normals 1981-2010 Station Data – Kapuskasing A": http://climate.weather.gc.ca/climate_normals/results_1981_2010_e.html?searchType=stnName&txtStationName=kapuskasing&searchMethod=contains&txtCentralLatMin=0&txtCentralLatSec=0&txtCentralLongMin=0&txtCentralLongSec=0&stnID=4157&dispBack=0

CIM; 2000. "Exploration Best Practice Guidelines". August 20, 2000:

http://web.cim.org/standards/documents/Block465_Doc21.pdf

CIM; 2014. "CIM Definition Standards for Mineral Resources and Mineral Reserves". Prepared by the CIM Standing Committee on Reserve Definitions; Adopted by CIM Council on May 10, 2014:

http://www.cim.org/~/media/Files/PDF/Subsites/CIM_DEFINITION_STANDARDS_20142

Detour Gold Corporation (DGC), 2016. "Burntbush Property Geology Map":

http://s1.q4cdn.com/320803946/files/images/2016/Burntbush-Property-Geology-Map.jpg

Energie et Ressources Naturelles Québec (ERNQ), 2016. "Système d'information géominière of Québec – Interactive Map":

http://sigeom.mrnf.gouv.qc.ca/signet/classes/I1108_afchCarteIntr

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 23rd December, 2020 (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 twelve 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 nine-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 July 2019 for four 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 23rd day of December 2020 at Coldwater, Ontario.

“signed and sealed”

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

APPENDICES

Drill Logs

Header

	LOCATION (NAD83 17N)					PLANNED	
DDH ID	**XCOLLAR**	**YCOLLAR**	**ZCOLLAR**	**DEPTH**	**ROCK**	**BRG**	**DIP**
AUL-19-28	592278	5483132	283	225	176	180	-50

	Legacy	Cell
Claim Number	3019086	311282

Purpose	Test Main Zone at bedrock surface, test previous zone south of main zone, test lithology south of main zone.
Result	Main Zone intersected at bedrock surface, small zone intersected as predicted, repetition of lithologies occurs south of main zone.
Start date	2019-02-21
End date	2019-02-23
Drill Contractor	NOREX
Logged By	Scott Zelligan

Description

BHID	FROM	TO	LENGTH	LITHO	SIMPLIFIED	Comment
AUL-19-28	0	49	49	OVB	OVB	Unrecovered overburden in casing, pebbles/boulders recovered at top of casing include pink granitoid.
AUL-19-28	49	51	2	MINZONE	MZLOW	Vuggy quartz with minor (1-5%) sulphide content. Bleached/saprolitic alteration, minor hematite staining.
AUL-19-28	51	53.1	2.1	BLCHtfPC	BLCHtuff	Saprolitically-altered bleached (sericite-altered) footwall unit, appears to consist of elongated polymictic conglomerate clasts over 2-3m at upper contact.
AUL-19-28	53.1	57.6	4.5	BLCHtuff	BLCHtuff	Saprolitically-altered bleached (sericite-altered) footwall unit, fine to medium-grained quartz-phyric tuff with 1-15% black specks (tourmaline? Biotite?) . Intermittent quartz-veining (up to 5cm in thickness), intermittent "layers" of sericite alteration, appear to be parallel with bedding/foliation.
AUL-19-28	57.6	58.4	0.8	MINZONE	MZLOW	Vuggy quartz with minor (1-5%) sulphide content. Bleached/saprolitic alteration.
AUL-19-28	58.4	59.7	1.3	BLCHtuff	BLCHtuff	Bleached (sericite-altered) footwall unit, fine to medium-grained quartz-phyric tuff with minor black specks, intermittent "layers" of sericite alteration, appear to be parallel with bedding/foliation. Foliation more pronounced.
AUL-19-28	59.7	60.6	0.9	MINZONE	MZLOW	White massive quartz with chlorite alteration, minor sulphides, cooked contacts over 1-5cm.
AUL-19-28	60.6	61.6	1	QPtuffPC	QPtuff	Footwall unit, strongly foliated/elongated clasts (polymictic conglomerate?)
AUL-19-28	61.6	91.5	29.9	QPtuff	QPtuff	Footwall unit, strongly foliated/elongated clasts (polymictic conglomerate?)
AUL-19-28	91.5	98.2	6.7	QPtuffPC	QPtuff	Strongly foliated, elongated clasts, intermittent quartz veining/replacement of polymictic conglomerate.
AUL-19-28	98.2	117.3	19.1	BLCHtuff	BLCHtuff	Sericite-altered footwall, largely fine- to medium-grained with minor black specks, occasional elongated clasts, occasional quartz veining, intermittent darker foliations/layers.
AUL-19-28	117.3	149.5	32.2	QPtuff	QPtuff	Footwall unit, strongly foliated, largely fine- to medium-grained with minor black specks, occasional elongated clasts, occasional quartz veining, intermittent darker foliations/layers. Minor sericite altered.
AUL-19-28	149.5	185.2	35.7	BLCHtfPC	BLCHtuff	Strongly foliated, wavy, elongated clasts, sericite-altered, footwall unit, intermittent minor white quartz veining
AUL-19-28	185.2	186.9	1.7	FLTpart	FLTpart	Fault with gouge and fault breccia
AUL-19-28	186.9	193.15	6.25	ARG	ARG	Dark coloured argillite, strongly foliated, minor "bleaching" intervals, minor quartz veining parallel to foliations
AUL-19-28	193.15	198	4.85	ARG	ARG	Dark coloured argillite, strongly foliated, minor "bleaching" intervals, minor quartz veining parallel to foliations, multiple "layers"? Or sequences, strongly altered and quartz-veined "start-end" if sequences
AUL-19-28	198	205.69	7.69	ARG	ARG	Dark coloured argillite, strongly foliated, minor "bleaching" intervals, minor quartz veining parallel to foliations, minor (<1%) cubic pyrite ~1cm
AUL-19-28	205.69	206	0.31	IF	IF	Intensely foliated, sericite altered, dark black (magnetite) layering with carbonate/sericite altered light intervals.
AUL-19-28	206	214	8	ARG	ARG	Dark coloured argillite, strongly foliated, minor "bleaching" intervals, minor quartz veining parallel to foliations

Description

AUL-19-28	214	214.5	0.5	IF	IF	Intensely foliated, sericite altered, dark black (magnetite) layering with carbonate/sericite altered light intervals.
AUL-19-28	214.5	225	10.5	ARG	ARG	Dark coloured argillite, strongly foliated, minor "bleaching" intervals, minor quartz veining parallel to foliations, minor (<1%) cubic pyrite ~1cm

Mineralization

BHID	FROM	TO	LENGTH	PY_PER	PO_PER	TOTAL_PER	STYLE	Comments
AUL-19-28	49	51	2	5		5		
AUL-19-28	57.6	58.4	0.8	1		1		
AUL-19-28	59.7	60.6	0.9	1		1		
AUL-19-28	198	205.69	7.69	0.5		0.5		
AUL-19-28	214.5	225	10.5	0.5		0.5		

Quartz-Carb

BHID	FROM	TO	LENGTH	NUMPERM	TYPE	Comment
AUL-19-28	49	51	2	5	Q	
AUL-19-28	57.6	58.4	0.8	5	Q	
AUL-19-28	59.7	60.6	0.9	5	Q	

Structure

BHID	FROM	TO	LENGTH	Deg to CA	STRUCTURE	Comment
AUL-19-28	49	51.5	2.5		FRACTURE	broken interval
AUL-19-28	52.5	52.75	0.25		FRACTURE	broken interval
AUL-19-28	53	54.7	1.7		FRACTURE	broken interval
AUL-19-28	66.8	67.2	0.4		FRACTURE	broken interval
AUL-19-28	140.6	141	0.4		FRACTURE	broken interval
AUL-19-28	185.2	186.5	1.3		FAULT	brittle fault
AUL-19-28	186.5	186.9	0.4		GOUGE	brecciated fault interval in clay gouge

Alteration

BHID	FROM	TO	LENGTH	ALTERATION	Comments
AUL-19-28	49	51	2	Silica	
AUL-19-28	51	53.1	2.1	Sericite	
AUL-19-28	53.1	57.6	4.5	Sericite	
AUL-19-28	57.6	58.4	0.8	Silica	
AUL-19-28	58.4	59.7	1.3	Sericite	
AUL-19-28	59.7	60.6	0.9	Silica	
AUL-19-28	98.2	117.3	19.1	Sericite	
AUL-19-28	149.5	185.2	35.7	Sericite	

RQD

BHID	FROM	TO	LENGTH	RECOVERY	REC_PER	RQD	RQD_PER	Comments
AUL-19-28	51	54	3.00	**2.36**	79%	**0.74**	32%	
AUL-19-28	54	57	3.00	**2.67**	89%	**1.33**	50%	
AUL-19-28	57	60	3.00	**3.04**	101%	2.23	73%	
AUL-19-28	60	63	3.00	**2.96**	99%	2.27	77%	
AUL-19-28	63	66	3.00	**2.72**	91%	0.97	36%	
AUL-19-28	66	69	3.00	**2.83**	94%	1.00	35%	
AUL-19-28	69	72	3.00	**3.02**	101%	2.51	83%	
AUL-19-28	72	75	3.00	**2.90**	97%	2.84	98%	
AUL-19-28	75	78	3.00	**2.89**	96%	1.58	55%	
AUL-19-28	78	81	3.00	**2.92**	97%	2.08	71%	
AUL-19-28	81	84	3.00	**3.11**	104%	2.76	89%	
AUL-19-28	84	87	3.00	**3.01**	100%	2.85	95%	
AUL-19-28	87	90	3.00	**3.03**	101%	2.91	96%	
AUL-19-28	90	93	3.00	**2.98**	99%	2.53	85%	
AUL-19-28	93	96	3.00	**2.85**	95%	2.54	89%	
AUL-19-28	96	99	3.00	**2.89**	96%	2.66	92%	
AUL-19-28	99	102	3.00	**2.90**	97%	2.47	85%	
AUL-19-28	102	105	3.00	**3.03**	101%	2.54	84%	
AUL-19-28	105	108	3.00	**2.92**	97%	2.74	94%	
AUL-19-28	108	111	3.00	**2.96**	99%	2.33	79%	
AUL-19-28	111	114	3.00	**2.86**	95%	2.50	88%	
AUL-19-28	114	117	3.00	**2.89**	96%	2.21	77%	
AUL-19-28	117	120	3.00	**2.98**	99%	2.80	94%	
AUL-19-28	120	123	3.00	**2.87**	96%	2.80	98%	
AUL-19-28	123	126	3.00	**3.02**	101%	2.50	83%	
AUL-19-28	126	129	3.00	**3.03**	101%	2.50	83%	
AUL-19-28	129	132	3.00	**2.94**	98%	2.80	95%	
AUL-19-28	132	135	3.00	**3.01**	100%	2.70	90%	
AUL-19-28	135	138	3.00	**2.90**	97%	2.60	90%	
AUL-19-28	138	141	3.00	**2.95**	98%	2.41	82%	
AUL-19-28	141	144	3.00	**3.04**	101%	1.53	50%	
AUL-19-28	144	147	3.00	**2.98**	99%	1.80	60%	
AUL-19-28	147	150	3.00	**3.09**	103%	2.90	94%	
AUL-19-28	150	153	3.00	**2.97**	99%	2.80	94%	
AUL-19-28	153	156	3.00	**2.93**	98%	2.80	96%	
AUL-19-28	156	159	3.00	**2.91**	97%	2.80	96%	
AUL-19-28	159	162	3.00	**3.04**	101%	2.90	95%	
AUL-19-28	162	165	3.00	**3.10**	103%	2.80	90%	
AUL-19-28	165	168	3.00	**3.10**	103%	2.90	94%	
AUL-19-28	168	171	3.00	**2.90**	97%	2.80	97%	
AUL-19-28	171	174	3.00	**2.88**	96%	2.50	87%	
AUL-19-28	174	177	3.00	**3.05**	102%	2.50	82%	
AUL-19-28	177	180	3.00	**2.98**	99%	2.80	94%	
AUL-19-28	180	183	3.00	**3.05**	102%	2.90	95%	
AUL-19-28	183	186	3.00	**2.74**	91%	1.00	37%	
AUL-19-28	186	189	3.00	**2.87**	96%	0.80	28%	
AUL-19-28	189	192	3.00	**2.98**	99%	2.09	70%	
AUL-19-28	192	195	3.00	**2.90**	97%	2.60	90%	
AUL-19-28	195	198	3.00	**3.04**	101%	2.50	82%	

RQD

AUL-19-28	198	201	3.00	**3.03**	101%	2.80	92%
AUL-19-28	201	204	3.00	**2.96**	99%	2.88	97%
AUL-19-28	204	207	3.00	**2.93**	98%	2.60	89%
AUL-19-28	207	210	3.00	**2.91**	97%	2.70	93%
AUL-19-28	210	213	3.00	**2.96**	99%	2.90	98%
AUL-19-28	213	216	3.00	**2.95**	98%	2.60	88%
AUL-19-28	216	219	3.00	**3.04**	101%	2.60	86%
AUL-19-28	219	222	3.00	**3.00**	100%	2.30	77%
AUL-19-28	222	225	3.00	**3.00**	100%	2.60	87%
			174.00	170.75	98%	139.42	82%

Survey

BHID	AT	BRG	DIP	Mag Field	Meas Azi	Use Az	Use Dip	Device	Comments
AUL-19-28	66.0	176.9	-50.7	5633	189.9	Yes	Yes	Reflex EZ-Shot	
AUL-19-28	117.0	178.5	-49.0	5610	191.5	Yes	Yes	Reflex EZ-Shot	
AUL-19-28	168	179.4	-47.4	5597	192.4	Yes	Yes	Reflex EZ-Shot	
AUL-19-28	210	181.4	-47.2	5608	194.4	Yes	Yes	Reflex EZ-Shot	

Samples

Sample Number	Type	QAQC	BHID	FROM	TO	LENGTH			SAMPLE WEIGHT	Au PPM (FA430) - Lab	Au GMT	Au Final
1703001	Split Core		AUL-19-28	49	50	1	1703001	Drill Core	1.1	0.716		0.716
1703002	Split Core		AUL-19-28	50	51	1	1703002	Drill Core	1.49	4.308		4.308
1703003	Split Core		AUL-19-28	51	52	1	1703003	Drill Core	2.42	0.064		0.064
1703004	Split Core		AUL-19-28	52	53	1	1703004	Drill Core	1.52	0.045		0.045
1703005	Split Core		AUL-19-28	53	54	1	1703005	Drill Core	1.04	0.128		0.128
1703006	Split Core		AUL-19-28	54	55	1	1703006	Drill Core	1.53	0.071		0.071
1703007	Split Core		AUL-19-28	55	56	1	1703007	Drill Core	1.99	0.033		0.033
1703008	Split Core		AUL-19-28	56	57	1	1703008	Drill Core	1.13	0.023		0.023
1703009	Split Core		AUL-19-28	57	58	1	1703009	Drill Core	2.39	1.819		1.819
1703010	Standard	216					1703010	Pulp	0.07	6.632		6.632
1703011	Split Core		AUL-19-28	58	59	1	1703011	Drill Core	1.97	0.637		0.637
1703012	Split Core		AUL-19-28	59	60	1	1703012	Drill Core	1.9	0.832		0.832
1703013	Split Core		AUL-19-28	60	60.5	0.5	1703013	Drill Core	1.16	2.03		2.03
1703014	Split Core		AUL-19-28	60.5	61	0.5	1703014	Drill Core	1.2	0.214		0.214
1703015	Split Core		AUL-19-28	61	62	1	1703015	Drill Core	1.36	0.025		0.025
1703016	Split Core		AUL-19-28	118.5	119.5	1	1703016	Drill Core	2.08	<0.005		0.0025
1703017	Split Core		AUL-19-28	125.5	126.5	1	1703017	Drill Core	2.24	<0.005		0.0025
1703018	Split Core		AUL-19-28	126.5	127.5	1	1703018	Drill Core	2.14	<0.005		0.0025
1703019	Split Core		AUL-19-28	137.5	138.5	1	1703019	Drill Core	1.91	<0.005		0.0025
1703020	Split Core		AUL-19-28	144.5	145.5	1	1703020	Drill Core	2.47	<0.005		0.0025
1703021	Split Core		AUL-19-28	145.5	146.5	1	1703021	Drill Core	2.08	<0.005		0.0025
1703022	Split Core		AUL-19-28	164	165	1	1703022	Drill Core	2.23	<0.005		0.0025
1703023	Split Core		AUL-19-28	165	166	1	1703023	Drill Core	2.05	<0.005		0.0025
1703024	Split Core		AUL-19-28	166	167	1	1703024	Drill Core	0.96	<0.005		0.0025
1703025	1/4 Core	DUP					1703025	Drill Core	1.11	<0.005		0.0025
1703026	Split Core		AUL-19-28	167	168	1	1703026	Drill Core	2.27	<0.005		0.0025
1703027	Split Core		AUL-19-28	168	169	1	1703027	Drill Core	2.41	0.243		0.243
1703028	Split Core		AUL-19-28	174	175	1	1703028	Drill Core	2.3	0.008		0.008
1703029	Split Core		AUL-19-28	175	176	1	1703029	Drill Core	2.51	<0.005		0.0025
1703030	Split Core		AUL-19-28	176	177	1	1703030	Drill Core	2.1	<0.005		0.0025
1703031	Split Core		AUL-19-28	177	178	1	1703031	Drill Core	2.05	0.01		0.01
1703032	Split Core		AUL-19-28	178	179	1	1703032	Drill Core	2.27	0.009		0.009
1703033	Split Core		AUL-19-28	179	180	1	1703033	Drill Core	1.99	<0.005		0.0025

Samples

1703034	Split Core		AUL-19-28	180	181	1	1703034	Drill Core	2.1		0.016	0.016
1703035	Standard	217					1703035	Pulp	0.06		0.327	0.327
1703036	Split Core		AUL-19-28	181	182	1	1703036	Drill Core	2.78	<0.005		0.0025
1703037	Split Core		AUL-19-28	182	183	1	1703037	Drill Core	2.1		0.01	0.01
1703038	Split Core		AUL-19-28	183	184	1	1703038	Drill Core	1.99		0.009	0.009
1703039	Split Core		AUL-19-28	184	185	1	1703039	Drill Core	1.76	<0.005		0.0025
1703040	Blank	BLANK					1703040	Rock	0.23	<0.005		0.0025
1703041	Split Core		AUL-19-28	185	186	1	1703041	Drill Core	2.23	<0.005		0.0025
1703042	Split Core		AUL-19-28	186	187	1	1703042	Drill Core	2.18	<0.005		0.0025
1703043	Split Core		AUL-19-28	192	193	1	1703043	Drill Core	2.23	<0.005		0.0025
1703044	Split Core		AUL-19-28	193	194	1	1703044	Drill Core	2.48		0.017	0.017
1703045	Split Core		AUL-19-28	194	195	1	1703045	Drill Core	2.03	<0.005		0.0025
1703046	Split Core		AUL-19-28	195	196	1	1703046	Drill Core	2.3	<0.005		0.0025
1703047	Split Core		AUL-19-28	196	196.5	0.5	1703047	Drill Core	1.27		0.009	0.009
1703048	Split Core		AUL-19-28	196.5	197.5	1	1703048	Drill Core	2.33		0.007	0.007
1703049	Split Core		AUL-19-28	197.5	198.5	1	1703049	Drill Core	0.74	<0.005		0.0025
1703050	1/4 Core	DUP					1703050	Drill Core	0.94	<0.005		0.0025
1703051	Split Core		AUL-19-28	198.5	199.5	1	1703051	Drill Core	2.04	<0.005		0.0025
1703052	Split Core		AUL-19-28	199.5	200.5	1	1703052	Drill Core	3.06		0.006	0.006
1703053	Split Core		AUL-19-28	200.5	201.5	1	1703053	Drill Core	2.24	<0.005		0.0025
1703054	Split Core		AUL-19-28	201.5	202.5	1	1703054	Drill Core	2.34		0.006	0.006
1703055	Split Core		AUL-19-28	202.5	203.5	1	1703055	Drill Core	1.37		0.006	0.006
1703056	Split Core		AUL-19-28	203.5	204.5	1	1703056	Drill Core	2.87		0.01	0.01
1703057	Split Core		AUL-19-28	204.5	205.5	1	1703057	Drill Core	2.51		0.006	0.006
1703058	Split Core		AUL-19-28	205.5	206.5	1	1703058	Drill Core	2.69	<0.005		0.0025
1703059	Split Core		AUL-19-28	206.5	207.5	1	1703059	Drill Core	2.58		0.01	0.01
1703060	Standard	216					1703060	Pulp	0.07		6.656	6.656
1703061	Split Core		AUL-19-28	207.5	208.5	1	1703061	Drill Core	2.33		0.008	0.008
1703062	Split Core		AUL-19-28	208.5	209.5	1	1703062	Drill Core	2.47		0.629	0.629
1703063	Split Core		AUL-19-28	209.5	210.5	1	1703063	Drill Core	2.28		0.017	0.017
1703064	Split Core		AUL-19-28	210.5	211.5	1	1703064	Drill Core	2.62	<0.005		0.0025
1703065	Split Core		AUL-19-28	211.5	212.5	1	1703065	Drill Core	2.27	<0.005		0.0025
1703066	Split Core		AUL-19-28	212.5	213.5	1	1703066	Drill Core	2.21		0.006	0.006
1703067	Split Core		AUL-19-28	213.5	214	0.5	1703067	Drill Core	1.25		0.013	0.013

Samples

1703068	Split Core	AUL-19-28	214	214.5	0.5	1703068	Drill Core	1.36	<0.005		0.0025
1703069	Split Core	AUL-19-28	214.5	215.5	1	1703069	Drill Core	2.11		0.01	0.01
1703070	Split Core	AUL-19-28	215.5	216.5	1	1703070	Drill Core	2.27	<0.005		0.0025
1703071	Split Core	AUL-19-28	216.5	217.5	1	1703071	Drill Core	2.39	<0.005		0.0025
1703072	Split Core	AUL-19-28	217.5	218.5	1	1703072	Drill Core	2.67	<0.005		0.0025

Header

	LOCATION (NAD83 17N)					PLANNED	
DDH ID	**XCOLLAR**	**YCOLLAR**	**ZCOLLAR**	**DEPTH**	**ROCK**	**BRG**	**DIP**
AUL-19-29	592294	5483294	283	237	177	180	-45
	Legacy	Cell					
Claim Number	3019086	311282					

Purpose	To intersect the mineralized zone between sections 592300 and 592275 at around 150 masl. Test zone continuity between intersections in AUL-18-13,14,19.
Result	Intersected zone closer to section 592300 than intended. Zone intersected as expected.
Start date	2019-02-23
End date	2019-02-25
Drill Contractor	NOREX
Logged By	Scott Zelligan

Description

BHID	FROM	TO	LENGTH	LITHO	SIMPLIFIED	Comment
AUL-19-29	0	60	60	OVB	OVB	Not recovered, minor broken pebbles recovered in casing.
AUL-19-29	60	69	9	RUBBLE	RUBBLE	heavily broken rock at bedrock surface - quartz veining?
AUL-19-29	69	71	2	BLCHarg	ARG	heavily broken, banded? Bleached (blueish-whiteish in colour, cloudy appearance)
AUL-19-29	71	78	7	ARG	ARG	Banded, dark grey, saprolitic alteration (including occasional vuggy intervals) disseminated cubic pyrite (up to 1cm), intermittent minor qtz-carb veining
AUL-19-29	78	78.15	0.15	MS	MS	weathered pyrite layer?
AUL-19-29	78.15	93.7	15.55	ARG	ARG	strongly banded and altered, qtz-carb stringers throughout, rust on fractures
AUL-19-29	93.7	106.6	12.9	BLCHarg	ARG	banded, intermittent bleached/mottled intervals, blueish-whiteish, cloudy
AUL-19-29	106.6	172.8	66.2	ARG	ARG	Variably banded grey argillite. Possibly small intervals of iron formation. Occasional cubic pyrite. Occasional rust on fractures. Intermittent quartz-carbonate veining, mostly sub-parallel to parallel with foliation
AUL-19-29	172.8	176	3.2	FLThea	FLThea	Healed fault, abundant quartz veining and stringers, mottled
AUL-19-29	176	183.25	7.25	ARG	ARG	Strongly banded, including 1-2% pyrite bands
AUL-19-29	183.25	186.8	3.55	MZsulf	MZMID	Coarse-grained cubic and crystaline pyrite replacing bedding of xenoliths (5-10%) with intermittent arsenopyrite replacement of pyrite crystals, white-grey mottled quartz with late white bull quartz veining, (5-10%).
AUL-19-29	186.8	188.75	1.95	MZ	MZLOW	Mottled quartz, 5-10% xenoliths (?) or replacement of banded tuff by epidote alteration.
AUL-19-29	188.75	190.4	1.65	MZsulf	MZMID	Coarse-grained cubic and crystaline pyrite replacing bedding of xenoliths (5-10%) with intermittent arsenopyrite replacement of pyrite crystals, white-grey mottled quartz with late white bull quartz veining, (10-15%).
AUL-19-29	190.4	194.4	4	MZ	MZLOW	Banded unit with 25-30% white bull quartz veining, 1-5% sulphides, both fine-grained and cubic coarse-grained
AUL-19-29	194.4	195.8	1.4	MZsulf	MZLOW	White bull quartz vein (50%) with 5-10% sulphides, mostly coarse-grained patches with minor arseno replacement of pyrite
AUL-19-29	195.8	199.15	3.35	MZfine	MZLOW	Banded grey unit with 10-15% banded pyrite, and fine-grained pyrite replacing banded unit.
AUL-19-29	199.15	199.7	0.55	MZsulf	MZHI	Massive quartz veining and cubic pyrite (with arseno replacement). 5-10% white quartz
AUL-19-29	199.7	200.4	0.7	MZfine	MZMID	Fine-grained pyrite replacing banded unit
AUL-19-29	200.4	201.2	0.8	IF	IF	strongly banded magnetite-chert? layering, fine-grained pyrite/arseno flooding cutting across beds. Xenolith? Or Replacement?
AUL-19-29	201.2	202.9	1.7	MZsulf	MZMID	Mineralized Zone - Massive quartz veining with multiple quartz and sulphide textures, including cubic pyrite (with arseno replacement), and fine grained pyrite with replacement. Some small intervals of white quartz but mostly grey quartz with chlorite? ribboning. 25% white quartz vein
AUL-19-29	202.9	222	19.1	BLCHtuff	BLCHtuff	Bleached footwall unit (tuffaceous unit), moderate to strong epidote alteration. Intermittent white quartz veining (1-5%), more frequent near upper contact.
AUL-19-29	222	237	15	QPtuff	QPtuff	Banded unit, light grey, intermittent bands of epidote alteration

Mineralization

BHID	FROM	TO	LENGTH	PY_PER	ASP_PER	TOTAL_PER	STYLE	Comments
AUL-19-29	176	183.25	7.25	2		2	Bands	Strongly banded, including 1-2% pyrite bands
AUL-19-29	183.25	186.8	3.55	9	1	10	Cubic	Coarse-grained cubic and crystaline pyrite replacing bedding of xenoliths (5-10%) with intermittent arsenopyrite replacement of pyrite crystals, white-grey mottled quartz with late white bull quartz veining, (5-10%).
AUL-19-29	186.8	188.75	1.95	5		5	Disseminatec	Mottled quartz, 5-10% xenoliths (?) or replacement of banded tuff by epidote alteration.
AUL-19-29	188.75	190.4	1.65	13	2	15	Cubic	Coarse-grained cubic and crystaline pyrite replacing bedding of xenoliths (5-10%) with intermittent arsenopyrite replacement of pyrite crystals, white-grey mottled quartz with late white bull quartz veining, (10-15%).
AUL-19-29	190.4	194.4	4	5	1	6	Multi	Banded unit with 25-30% white bull quartz veining, 1-5% sulphides, both fine-grained and cubic coarse-grained
AUL-19-29	194.4	195.8	1.4	5	1	6	Cubic	White bull quartz vein (50%) with 5-10% sulphides, mostly coarse-grained patches with minor arseno replacement of pyrite
AUL-19-29	195.8	199.15	3.35	10		10	Bands	Banded grey unit with 10-15% banded pyrite, and fine-grained pyrite replacing banded unit.
AUL-19-29	199.15	199.7	0.55	13	2	15	Cubic	Massive quartz veining and cubic pyrite (with arseno replacement). 5-10% white quartz
AUL-19-29	199.7	200.4	0.7	25		25	Bands	Fine-grained pyrite replacing banded unit
AUL-19-29	200.4	201.2	0.8	15		15	Bands	strongly banded magnetite-chert? layering, fine-grained pyrite/arseno flooding cutting across beds. Xenolith? Or Replacement?
AUL-19-29	201.2	202.9	1.7	5	1	6	Cubic	Mineralized Zone - Massive quartz veining with multiple quartz and sulphide textures, including cubic pyrite (with arseno replacement), and fine grained pyrite with replacement. Some small intervals of white quartz but mostly grey quartz with chlorite? ribboning. 25% white quartz vein

Quartz-Carb

BHID	FROM	TO	LENGTH	NUMPERM	TYPE	Comment
AUL-19-29	60	69	9	5	Q	Veins/massive
AUL-19-29	69	71	2	3	Q	Veinlets
AUL-19-29	71	78	7	1	Q	Veinlets
AUL-19-29	78.15	93.7	15.55	20	Q-C	Minor veinlets
AUL-19-29	93.7	106.6	12.9	20	Q-C	Minor veinlets
AUL-19-29	106.6	172.8	66.2	3	Q-C	Minor veinlets
AUL-19-29	172.8	176	3.2	20	Q-C	Veinlets/Fault infill
AUL-19-29	176	183.25	7.25	15	Q-C	Minor veinlets
AUL-19-29	183.25	186.8	3.55	10	Q	Massive veins/Fault infill
AUL-19-29	186.8	188.75	1.95	10	Q	Massive veins/Fault infill
AUL-19-29	188.75	190.4	1.65	10	Q	Massive veins/Fault infill
AUL-19-29	190.4	194.4	4	5	Q	Massive veins/Fault infill
AUL-19-29	194.4	195.8	1.4	1	Q	Massive vein/Fault infill
AUL-19-29	199.15	199.7	0.55	1	Q	Massive vein/Fault infill
AUL-19-29	201.2	202.9	1.7	1	Q	Massive vein/Fault infill
AUL-19-29	202.9	222	19.1	3	Q	Veinlets/Fault infill

Structure

BHID	FROM	TO	LENGTH	Deg to CA	STRUCTURE	Comment
AUL-19-29	60	69	9		RUBBLE	
AUL-19-29	69	79	10		BROKEN	
AUL-19-29	82	84	2		BROKEN	
AUL-19-29	87	88	1		BROKEN	
AUL-19-29	117	122	5		BROKEN	
AUL-19-29	139	142	3		BROKEN	
AUL-19-29	172.8	176	3.2		FLThea	
AUL-19-29	183.25	202.9	19.65		FLThea	Mineralized zone

Alteration

BHID	FROM	TO	LENGTH	ALTERATION	Comments
AUL-19-29	69	71	2	BLCH	whiteish-blueish bleached alteration
AUL-19-29	93.7	106.6	12.9	BLCH	whiteish-blueish bleached alteration
AUL-19-29	183.25	202.9	3.55	Epi-Sulph	Mineralized zone
AUL-19-29	202.9	222	19.1	Epi	Bleached footwall unit

RQD

BHID	FROM	TO	LENGTH	RECOVERY	REC_PER	RQD	RQD_PER	Comments
AUL-19-29	60.00	63.00	3.00	**1.18**	39%	**0.00**	0%	
AUL-19-29	63.00	66.00	3.00	**0.44**	15%	0.10	23%	
AUL-19-29	66.00	69.00	3.00	**1.38**	46%	0.00	0%	
AUL-19-29	69.00	72.00	3.00	**2.95**	98%	0.50	17%	
AUL-19-29	72.00	75.00	3.00	**2.53**	84%	0.30	12%	
AUL-19-29	75.00	78.00	3.00	**2.81**	94%	0.20	7%	
AUL-19-29	78.00	81.00	3.00	**2.92**	97%	1.00	34%	
AUL-19-29	81.00	84.00	3.00	**2.66**	89%	0.40	15%	
AUL-19-29	84.00	87.00	3.00	**2.97**	99%	2.20	74%	
AUL-19-29	87.00	90.00	3.00	**2.83**	94%	0.40	14%	
AUL-19-29	90.00	93.00	3.00	**2.74**	91%	0.50	18%	
AUL-19-29	93.00	96.00	3.00	**2.81**	94%	1.10	39%	
AUL-19-29	96.00	99.00	3.00	**2.98**	99%	1.10	37%	
AUL-19-29	99.00	102.00	3.00	**3.03**	101%	2.30	76%	
AUL-19-29	102.00	105.00	3.00	**3.00**	100%	2.10	70%	
AUL-19-29	105.00	108.00	3.00	**2.82**	94%	1.80	64%	
AUL-19-29	108.00	111.00	3.00	**3.09**	103%	2.00	65%	
AUL-19-29	111.00	114.00	3.00	**3.00**	100%	2.10	70%	
AUL-19-29	114.00	117.00	3.00	**2.99**	100%	2.20	74%	
AUL-19-29	117.00	120.00	3.00	**2.90**	97%	1.80	62%	
AUL-19-29	120.00	123.00	3.00	**2.91**	97%	1.80	62%	
AUL-19-29	123.00	126.00	3.00	**2.96**	99%	1.50	51%	
AUL-19-29	126.00	129.00	3.00	**3.04**	101%	1.70	56%	
AUL-19-29	129.00	132.00	3.00	**2.98**	99%	2.20	74%	
AUL-19-29	132.00	135.00	3.00	**3.18**	106%	2.40	76%	
AUL-19-29	135.00	138.00	3.00	**2.85**	95%	2.60	91%	
AUL-19-29	138.00	141.00	3.00	**2.90**	97%	1.10	38%	
AUL-19-29	141.00	144.00	3.00	**2.68**	89%	1.80	67%	
AUL-19-29	144.00	147.00	3.00	**3.01**	100%	2.10	70%	
AUL-19-29	147.00	150.00	3.00	**2.88**	96%	2.40	83%	
AUL-19-29	150.00	153.00	3.00	**3.14**	105%	2.70	86%	
AUL-19-29	153.00	156.00	3.00	**2.85**	95%	2.60	91%	
AUL-19-29	156.00	159.00	3.00	**2.91**	97%	2.70	93%	
AUL-19-29	159.00	162.00	3.00	**3.11**	104%	2.50	80%	
AUL-19-29	162.00	165.00	3.00	**3.02**	101%	2.70	89%	
AUL-19-29	165.00	168.00	3.00	**2.70**	90%	2.70	100%	
AUL-19-29	168.00	171.00	3.00	**2.83**	94%	2.70	95%	
AUL-19-29	171.00	174.00	3.00	**3.06**	102%	2.70	88%	
AUL-19-29	174.00	177.00	3.00	**3.15**	105%	2.50	79%	
AUL-19-29	177.00	180.00	3.00	**2.91**	97%	2.80	96%	
AUL-19-29	180.00	183.00	3.00	**2.77**	92%	1.60	58%	
AUL-19-29	183.00	186.00	3.00	**2.96**	99%	1.50	51%	
AUL-19-29	186.00	189.00	3.00	**2.84**	95%	2.20	78%	
AUL-19-29	189.00	192.00	3.00	**3.04**	101%	2.80	92%	
AUL-19-29	192.00	195.00	3.00	**3.10**	103%	2.80	90%	
AUL-19-29	195.00	198.00	3.00	**2.98**	99%	2.70	91%	
AUL-19-29	198.00	201.00	3.00	**2.92**	97%	2.40	82%	
AUL-19-29	201.00	204.00	3.00	**3.01**	100%	2.60	86%	
AUL-19-29	204.00	207.00	3.00	**3.00**	100%	2.70	90%	

RQD

AUL-19-29	207.00	210.00	3.00	**2.70**	90%	2.70	100%
AUL-19-29	210.00	213.00	3.00	**2.96**	99%	2.70	91%
AUL-19-29	213.00	216.00	3.00	**2.99**	100%	2.80	94%
AUL-19-29	216.00	219.00	3.00	**2.98**	99%	2.80	94%
AUL-19-29	219.00	222.00	3.00	**2.92**	97%	2.80	96%
AUL-19-29	222.00	225.00	3.00	**2.92**	97%	2.90	99%
AUL-19-29	225.00	228.00	3.00	**3.10**	103%	2.80	90%
AUL-19-29	228.00	231.00	3.00	**2.96**	99%	2.90	98%
AUL-19-29	231.00	234.00	3.00	**2.97**	99%	2.90	98%
AUL-19-29	234.00	237.00	3.00	**2.93**	98%	2.90	99%
			177.00	167.13	94%	117.80	70%

Survey

BHID	AT	BRG	DIP	Mag Field	Meas Azi	Use Az	Use Dip	Device	Comments
AUL-19-29	84.0	176.1	-45.2	5744	189.1	Yes	Yes	Reflex EZ-Shot	
AUL-19-29	135.0	174.7	-44.7	5653	187.7	Yes	Yes	Reflex EZ-Shot	
AUL-19-29	186	175.4	-43.8	5608	188.4	Yes	Yes	Reflex EZ-Shot	
AUL-19-29	240	177.6	-43.5	5594	190.6	Yes	Yes	Reflex EZ-Shot	

Samples

Sample Number	Type	QAQC	BHID	FROM	TO	LENGTH			SAMPLE WEIGHT	Au PPM (FA430) - Lab	Au GMT	Au Final
1703073	Split Core		AUL-19-29	60	61	1	1703073	Drill Core	0.64		0.062	0.062
1703074	Split Core		AUL-19-29	61	62	1	1703074	Drill Core	0.58		0.017	0.017
1703075	1/4 Core	DUP					1703075	Drill Core	0.6		0.02	0.02
1703076	Split Core		AUL-19-29	62	63	1	1703076	Drill Core	0.98		0.009	0.009
1703077	Split Core		AUL-19-29	63	64.5	1.5	1703077	Drill Core	0.5		0.006	0.006
1703078	Split Core		AUL-19-29	64.5	66	1.5	1703078	Drill Core	0.68		0.024	0.024
1703079	Split Core		AUL-19-29	66	67	1	1703079	Drill Core	1.09		0.022	0.022
1703080	Split Core		AUL-19-29	67	68	1	1703080	Drill Core	1.2		0.015	0.015
1703081	Split Core		AUL-19-29	68	69	1	1703081	Drill Core	0.95		0.046	0.046
1703082	Split Core		AUL-19-29	69	70	1	1703082	Drill Core	1.4		0.067	0.067
1703083	Split Core		AUL-19-29	70	71	1	1703083	Drill Core	2.01		0.03	0.03
1703084	Split Core		AUL-19-29	71	72	1	1703084	Drill Core	2.11		0.023	0.023
1703085	Standard	217					1703085	Pulp	0.06		0.349	0.349
1703086	Split Core		AUL-19-29	72	73	1	1703086	Drill Core	1.71		0.019	0.019
1703087	Split Core		AUL-19-29	73	74	1	1703087	Drill Core	0.89		0.016	0.016
1703088	Split Core		AUL-19-29	74	75	1	1703088	Drill Core	1.11		0.018	0.018
1703089	Split Core		AUL-19-29	75	76	1	1703089	Drill Core	1.47		0.012	0.012
1703090	Blank	BLANK					1703090	Rock	0.33	<0.005		0.0025
1703091	Split Core		AUL-19-29	76	77	1	1703091	Drill Core	1.58		0.011	0.011
1703092	Split Core		AUL-19-29	77	78	1	1703092	Drill Core	1.61		0.014	0.014
1703093	Split Core		AUL-19-29	78	79	1	1703093	Drill Core	1.82		0.008	0.008
1703094	Split Core		AUL-19-29	79	80	1	1703094	Drill Core	2.09		0.009	0.009
1703095	Split Core		AUL-19-29	80	81	1	1703095	Drill Core	2.25		0.012	0.012
1703096	Split Core		AUL-19-29	81	82	1	1703096	Drill Core	2.05		0.007	0.007
1703097	Split Core		AUL-19-29	82	83	1	1703097	Drill Core	1.62	<0.005		0.0025
1703098	Split Core		AUL-19-29	83	84	1	1703098	Drill Core	1.71	<0.005		0.0025
1703099	Split Core		AUL-19-29	84	85	1	1703099	Drill Core	1.56	<0.005		0.0025
1703100	1/4 Core	DUP					1703100	Drill Core	2.12		0.008	0.008
1703101	Split Core		AUL-19-29	85	86	1	1703101	Drill Core	2.3	<0.005		0.0025
1703102	Split Core		AUL-19-29	86	87	1	1703102	Drill Core	2.16	<0.005		0.0025
1703103	Split Core		AUL-19-29	87	88	1	1703103	Drill Core	1.62	<0.005		0.0025
1703104	Split Core		AUL-19-29	88	89	1	1703104	Drill Core	1.55		0.008	0.008
1703105	Split Core		AUL-19-29	89	90	1	1703105	Drill Core	1.73		0.005	0.005

Samples

1703106	Split Core		AUL-19-29	90	91	1	1703106	Drill Core	1.87	<0.005		0.0025
1703107	Split Core		AUL-19-29	91	92	1	1703107	Drill Core	2.17	<0.005		0.0025
1703108	Split Core		AUL-19-29	92	93	1	1703108	Drill Core	1.23	<0.005		0.0025
1703109	Split Core		AUL-19-29	93	94	1	1703109	Drill Core	1.7	<0.005		0.0025
1703110	Standard	216					1703110	Pulp	0.06		6.773	6.773
1703111	Split Core		AUL-19-29	94	95	1	1703111	Drill Core	1.44	<0.005		0.0025
1703112	Split Core		AUL-19-29	95	96	1	1703112	Drill Core	1.46	<0.005		0.0025
1703113	Split Core		AUL-19-29	96	97	1	1703113	Drill Core	2.3	<0.005		0.0025
1703114	Split Core		AUL-19-29	97	98	1	1703114	Drill Core	1.82	<0.005		0.0025
1703115	Split Core		AUL-19-29	98	99	1	1703115	Drill Core	2.02		0.011	0.011
1703116	Split Core		AUL-19-29	99	100	1	1703116	Drill Core	1.78		0.009	0.009
1703117	Split Core		AUL-19-29	100	101	1	1703117	Drill Core	1.81		0.008	0.008
1703118	Split Core		AUL-19-29	101	102	1	1703118	Drill Core	1.79		0.015	0.015
1703119	Split Core		AUL-19-29	102	103	1	1703119	Drill Core	1.98		0.035	0.035
1703120	Split Core		AUL-19-29	103	104	1	1703120	Drill Core	2.11		0.016	0.016
1703121	Split Core		AUL-19-29	104	105	1	1703121	Drill Core	2.07		0.018	0.018
1703122	Split Core		AUL-19-29	105	106	1	1703122	Drill Core	1.79		0.019	0.019
1703123	Split Core		AUL-19-29	106	107	1	1703123	Drill Core	2.26		0.015	0.015
1703124	Split Core		AUL-19-29	107	108	1	1703124	Drill Core	1.83		0.012	0.012
1703125	1/4 Core	DUP					1703125	Drill Core	1.17		0.053	0.053
1703126	Split Core		AUL-19-29	177.5	178.5	1	1703126	Drill Core	1.04		0.07	0.07
1703127	Split Core		AUL-19-29	178.5	179.5	1	1703127	Drill Core	2.66		0.034	0.034
1703128	Split Core		AUL-19-29	179.5	180.5	1	1703128	Drill Core	1.61		0.078	0.078
1703129	Split Core		AUL-19-29	180.5	181.5	1	1703129	Drill Core	2.36		0.048	0.048
1703130	Split Core		AUL-19-29	181.5	182.5	1	1703130	Drill Core	2.44		0.058	0.058
1703131	Split Core		AUL-19-29	182.5	183.5	1	1703131	Drill Core	2.19		0.212	0.212
1703132	Split Core		AUL-19-29	183.5	184	0.5	1703132	Drill Core	0.85		0.399	0.399
1703133	Split Core		AUL-19-29	184	185	1	1703133	Drill Core	2.38		4.994	4.994
1703134	Split Core		AUL-19-29	185	186	1	1703134	Drill Core	2.36		3.948	3.948
1703135	Standard	217					1703135	Pulp	0.07		0.34	0.34
1703136	Split Core		AUL-19-29	186	186.8	0.8	1703136	Drill Core	1.69		4.345	4.345
1703137	Split Core		AUL-19-29	186.8	187.8	1	1703137	Drill Core	2.11		1	1
1703138	Split Core		AUL-19-29	187.8	188.7	0.9	1703138	Drill Core	1.75		1.749	1.749
1703139	Split Core		AUL-19-29	188.7	189.7	1	1703139	Drill Core	2.39		2.309	2.309

Samples

1703140	Blank	BLANK					1703140	Rock	0.41	0.005	0.005
1703141	Split Core		AUL-19-29	189.7	190.4	0.7	1703141	Drill Core	1.91	2.487	2.487
1703142	Split Core		AUL-19-29	190.4	191.7	1.3	1703142	Drill Core	3.11	0.555	0.555
1703143	Split Core		AUL-19-29	191.7	192.2	0.5	1703143	Drill Core	0.88	0.435	0.435
1703144	Split Core		AUL-19-29	192.2	192.8	0.6	1703144	Drill Core	1.49	0.567	0.567
1703145	Split Core		AUL-19-29	192.8	193.4	0.6	1703145	Drill Core	1.24	0.395	0.395
1703146	Split Core		AUL-19-29	193.4	194.4	1	1703146	Drill Core	0.75	0.29	0.29
1703147	Split Core		AUL-19-29	194.4	195.2	0.8	1703147	Drill Core	1.5	1.781	1.781
1703148	Split Core		AUL-19-29	195.2	195.8	0.6	1703148	Drill Core	3.56	1.48	1.48
1703149	Split Core		AUL-19-29	195.8	196.7	0.9	1703149	Drill Core	0.93	0.906	0.906
1703150	1/4 Core	DUP					1703150	Drill Core	0.84	0.984	0.984
1703151	Split Core		AUL-19-29	196.7	197.5	0.8	1703151	Drill Core	2.03	1.286	1.286
1703152	Split Core		AUL-19-29	197.5	198.5	1	1703152	Drill Core	2.08	1.718	1.718
1703153	Split Core		AUL-19-29	198.5	199.2	0.7	1703153	Drill Core	1.63	1.53	1.53
1703154	Split Core		AUL-19-29	199.2	199.8	0.6	1703154	Drill Core	1.2	5.934	5.934
1703155	Split Core		AUL-19-29	199.8	200.3	0.5	1703155	Drill Core	1.38	2.784	2.784
1703156	Split Core		AUL-19-29	200.3	201.1	0.8	1703156	Drill Core	2.07	1.485	1.485
1703157	Split Core		AUL-19-29	201.1	201.6	0.5	1703157	Drill Core	1.4	5.411	5.411
1703158	Split Core		AUL-19-29	201.6	202.3	0.7	1703158	Drill Core	1.25	2.826	2.826
1703159	Split Core		AUL-19-29	202.3	202.9	0.6	1703159	Drill Core	1.02	0.458	0.458
1703160	Standard	216					1703160	Pulp	0.07	6.613	6.613
1703161	Split Core		AUL-19-29	202.9	204	1.1	1703161	Drill Core	2.77	0.099	0.099
1703162	Split Core		AUL-19-29	204	205	1	1703162	Drill Core	2.33	0.08	0.08
1703163	Split Core		AUL-19-29	205	205.7	0.7	1703163	Drill Core	1.52	0.046	0.046
1703164	Split Core		AUL-19-29	205.7	207	1.3	1703164	Drill Core	2.78	0.041	0.041
1703165	Split Core		AUL-19-29	207	208	1	1703165	Drill Core	2.11	0.034	0.034
1703166	Split Core		AUL-19-29	208	209	1	1703166	Drill Core	2.53	0.104	0.104
1703167	Split Core		AUL-19-29	209	210	1	1703167	Drill Core	1.36	0.118	0.118
1703168	Split Core		AUL-19-29	210	211	1	1703168	Drill Core	2.17	0.061	0.061
1703169	Split Core		AUL-19-29	211	212	1	1703169	Drill Core	2.09	0.031	0.031
1703170	Split Core		AUL-19-29	212	213	1	1703170	Drill Core	2.43	0.078	0.078
1703171	Split Core		AUL-19-29	213	214	1	1703171	Drill Core	2.06	0.141	0.141

Header

	LOCATION (NAD83 17N)					PLANNED	
DDH ID	**XCOLLAR**	**YCOLLAR**	**ZCOLLAR**	**DEPTH**	**ROCK**	**BRG**	**DIP**
AUL-19-30	592294	5483294	283	284	236	180	-55
	Legacy	Cell					
Claim Number	3019086	311282					

Purpose	To intersect the mineralized zone between sections 592300 and 592275 at around 100 masl. Test zone continuity between intersections in AUL-18-14,15,19.
Result	Intersected high-grade ore zone, stretching zone intersected in hole AUL-18-15 "up-dip" towards hole AUL-18-19.
Start date	2019-02-25
End date	2019-02-28
Drill Contractor	NOREX
Logged By	Scott Zelligan

Description

BHID	FROM	TO	LENGTH	LITHO	SIMPLIFIED	Comment
AUL-19-30	0	48	48	OVB	OVB	Not recovered, fragments of possible boulders/pebbles including pink granitic
AUL-19-30	48	51.3	3.3	MZ	MZLOW	saprolite altered? Quartz veining and minor sulphides in bleached footwall? Possible polymictic conglomerate?
AUL-19-30	51.3	58	6.7	FLThea	FLThea	banded, dark grey, numerous qtz-carb stringers, possible small scale folding?
AUL-19-30	58	72.6	14.6	BLCHtfPC	BLCHtuff	elongated/banded clasts, conglomerate (tuff?) sericite altered
AUL-19-30	72.6	76.3	3.7	BLCHtuff	BLCHtuff	strongly banded and altered
AUL-19-30	76.3	77.3	1	FLThea	FLThea	banded, dark grey, numerous qtz-carb stringers, possible small scale folding?
AUL-19-30	77.3	79.5	2.2	MZ	MZLOW	heavily broken, fragments of healed fault as well as sericite altered footwall unit. Minor quartz veining and sulphides
AUL-19-30	79.5	81.4	1.9	FLThea	FLThea	quartz veining, grey wallrock (argillite?)
AUL-19-30	81.4	97	15.6	ARG	ARG	massive-textured, fine-grained, weak banding, occasional strings qtz-carb
AUL-19-30	97	185	88	ARG	ARG	Variably banded grey argillite. Variable disseminated cubic pyrite. Possibly small intervals (sub meter) of iron formation.
AUL-19-30	185	191.15	6.15	FLThea	FLThea	Altered argillite? Darker with increased alteration, part of contact with mineralized zone.
AUL-19-30	191.15	196.5	5.35	ARGshd	ARG	Same as above with intermittent massive sulphide intervals of less than 10cm width.
AUL-19-30	196.5	196.9	0.4	PYfr	PYfr	Semi-massive pyrite with minor arseno replacement textures? Framboidal pyrite?
AUL-19-30	196.9	197.2	0.3	FLThea	FLThea	Altered argillite? with quartz veining
AUL-19-30	197.2	199.7	2.5	PYfr	PYfr	Massive pyrite with arsenopyrite replacement textures, variable grain sizes, some banded some nodular some fine-grain
AUL-19-30	199.7	201.85	2.15	FLThea	FLThea	Altered argillite? with fine grained sulphides
AUL-19-30	201.85	204.8	2.95	MZsulf	MZLOW	Grey-white mottled quartz veining with 5-10% sulphides, fine to coarse-grained cubic pyrite with variable arsenopyrite replacement
AUL-19-30	204.8	207.8	3	MZsulf	MZHI	Grey-white mottled quartz veining with semi-massive sulphides 30-40%, coarse-grained cubic pyrite with arsenopyrite replacement
AUL-19-30	207.8	209.7	1.9	MZsulf	MZHI	Strongly banded with pyrite/arseno replacement (10-20%) of banding, intermittent mottled quartz veining
AUL-19-30	209.7	210	0.3	QV	MZMID	Mottled massive white/grey quartz vein with dark ribboning
AUL-19-30	210	211.6	1.6	MZ	MZMID	Banded grey unit, banding parallel to core axis, with minor sulphides and quartz veining
AUL-19-30	211.6	212	0.4	QV	MZLOW	Mottled massive white/grey quartz vein with dark ribboning
AUL-19-30	212	213.5	1.5	MZ	MZMID	Dark grey, minor quartz veining, minor sulphides
AUL-19-30	213.5	216.6	3.1	MZsulf	MZMID	Strongly banded with pyrite/arseno replacement (10-20%) of banding, as well as coarse-grained pyrite with arseno replacement, intermittent mottled quartz veining
AUL-19-30	216.6	217.5	0.9	MZ	MZMID	Banded grey unit, banding parallel to core axis, with minor sulphides and quartz veining
AUL-19-30	217.5	220.6	3.1	MZsulf	MZHI	Grey-white mottled quartz veining with semi-massive sulphides 30-40%, coarse-grained cubic pyrite with arsenopyrite replacement

Description

AUL-19-30	220.6	222.2	1.6	MZ	MZLOW	Saprolite-altered polymictic conglomerate with minor sulphides and white-grey quartz veining
AUL-19-30	222.2	223.6	1.4	MZsulf	MZHI	Grey-white mottled quartz veining with semi-massive sulphides 20-30%, coarse-grained cubic pyrite with arsenopyrite replacement
AUL-19-30	223.6	225	1.4	QV	MZMID	White-grey quartz veining with less to no sulphides
AUL-19-30	225	227.2	2.2	BLCHtfPC	BLCHtuff	Saprolite-altered polymictic conglomerate with minor sulphides and abundant massive white quartz veining
AUL-19-30	227.2	249.4	22.2	BLCHtuff	BLCHtuff	Bleached footwall unit (intermittent conglomerate?) intermittent lesser white quartz veining
AUL-19-30	249.4	258.6	9.2	QPtuff	QPtuff	Banded unit, dark grey, medium-grained quartz-phyric tuff, intermittent quartz veining
AUL-19-30	258.6	268.7	10.1	QPtuff	QPtuff	Banded unit, light grey, medium-grained quartz-phyric tuff, intermittent quartz veining
AUL-19-30	268.7	275.1	6.4	QPtuff	QPtuff	Banded unit, light grey, disseminated fine to medium-grained dark grains
AUL-19-30	275.1	276	0.9	FLThea	FLThea	Banded, possible iron formation or healed fault?
AUL-19-30	276	284	8	QPtuff	QPtuff	Banded unit, light grey, disseminated fine to medium-grained dark grains

Mineralization

BHID	FROM	TO	LENGTH	PY_PER	ASP_PER	TOTAL_PER	STYLE	Comments
AUL-19-30	48	51.3	3.3	3		3	DISS	
AUL-19-30	77.3	79.5	2.2	2		2	VEINLETS	
AUL-19-30	191.15	196.5	5.35	5		5	BANDS	
AUL-19-30	196.5	196.9	0.4	50		50	MASS	
AUL-19-30	197.2	199.7	2.5	70		70	MASS	
AUL-19-30	199.7	201.85	2.15	1		1	DISS	
AUL-19-30	201.85	204.8	2.95	10	1	11	VEIN	
AUL-19-30	204.8	207.8	3	35	5	40	MASS	
AUL-19-30	207.8	209.7	1.9	15	1	16	BANDS	
AUL-19-30	209.7	210	0.3	1		1	DISS	
AUL-19-30	210	211.6	1.6	1		1	DISS	
AUL-19-30	211.6	212	0.4	1		1	DISS	
AUL-19-30	212	213.5	1.5	1		1	DISS	
AUL-19-30	213.5	216.6	3.1	15	1	16	BANDS	
AUL-19-30	216.6	217.5	0.9	1		1	DISS	
AUL-19-30	217.5	220.6	3.1	35	1	36	MASS	
AUL-19-30	220.6	222.2	1.6	1		1	DISS	
AUL-19-30	222.2	223.6	1.4	25	1	26	MASS	
AUL-19-30	223.6	225	1.4	0.5		0.5	DISS	

Quartz-Carb

BHID	FROM	TO	LENGTH	NUMPERM	TYPE	Comment
AUL-19-30	48	51.3	3.3	5	Q	Veins/Massive
AUL-19-30	51.3	58	6.7	25	Q-C	Veinlets
AUL-19-30	76.3	77.3	1	25	Q-C	Veinlets
AUL-19-30	77.3	79.5	2.2	5	Q	Veins/veinlets
AUL-19-30	79.5	81.4	1.9	10	Q	Fault infill
AUL-19-30	81.4	97	15.6	3	Q-C	Veinlets
AUL-19-30	97	185	88	10	Q-C	Veinlets
AUL-19-30	185	191.15	6.15	10	Q-C	Veinlets/Fault infill
AUL-19-30	191.15	196.5	5.35	5	Q-C	Veinlets/Fault infill
AUL-19-30	196.9	197.2	0.3	3	Q-C	Veinlets
AUL-19-30	201.85	204.8	2.95	5	Q	Massive/Fault infill
AUL-19-30	204.8	207.8	3	5	Q	Massive/Fault infill
AUL-19-30	207.8	209.7	1.9	5	Q	Massive/Fault infill
AUL-19-30	209.7	210	0.3	5	Q	Massive/Fault infill
AUL-19-30	210	211.6	1.6	5	Q	Massive/Fault infill
AUL-19-30	211.6	212	0.4	5	Q	Massive/Fault infill
AUL-19-30	212	213.5	1.5	5	Q	Massive/Fault infill
AUL-19-30	213.5	216.6	3.1	5	Q	Massive/Fault infill
AUL-19-30	216.6	217.5	0.9	5	Q	Massive/Fault infill
AUL-19-30	217.5	220.6	3.1	5	Q	Massive/Fault infill
AUL-19-30	220.6	222.2	1.6	5	Q	Massive/Fault infill
AUL-19-30	222.2	223.6	1.4	5	Q	Massive/Fault infill
AUL-19-30	223.6	225	1.4	5	Q	Massive/Fault infill
AUL-19-30	225	227.2	2.2	25	Q	Massive/Fault infill
AUL-19-30	227.2	249.4	22.2	7	Q-C	Veins/veinlets
AUL-19-30	249.4	258.6	9.2	5	Q-C	Veinlets
AUL-19-30	258.6	268.7	10.1	1	Q-C	Veinlets
AUL-19-30	268.7	275.1	6.4	3	Q-C	Veinlets
AUL-19-30	275.1	276	0.9	25	Q-C	Veinlets/Fault infill

Structure

BHID	FROM	TO	LENGTH	Deg to CA	STRUCTURE	Comment
AUL-19-30	50.5	51	0.5		Broken	
AUL-19-30	51.3	58	6.7	75	FLThea	
AUL-19-30	76.3	77.3	1	60	FLThea	
AUL-19-30	77.3	79.5	2.2		Broken	
AUL-19-30	79.5	81.4	1.9	15	FLThea	
AUL-19-30	85.2	86.3	1.1	55	FLThea	
AUL-19-30	91.4	91.8	0.4	55	FLThea	
AUL-19-30	102	102.6	0.6	70	FLThea	
AUL-19-30	111	113	2	45	FLThea	fault? Sedimentary sequence end/beginning?
AUL-19-30	117.5	118	0.5		Broken	
AUL-19-30	118.5	119	0.5		Broken	
AUL-19-30	139.5	140.2	0.7	75	FLThea	
AUL-19-30	141.55	141.75	0.2	80	FLThea	
AUL-19-30	185	191.15	6.15	35	FLThea	
AUL-19-30	196.9	197.2	0.3		FLThea	
AUL-19-30	199.7	201.85	2.15	55	FLThea	
AUL-19-30	201.85	227.2	25.35		FLThea	Main Zone mineralization
AUL-19-30	275.1	276	0.9	55	FLThea	

Alteration

BHID	FROM	TO	LENGTH	ALTERATION	Comments
AUL-19-30	48	51.3	3.3	SAPROLITE	
AUL-19-30	51.3	55.5	4.2	QTZ-CARB	
AUL-19-30	72.6	76.3	3.7	SERICITE	
AUL-19-30	76.3	77.3	1	SERICITE	
AUL-19-30	201.5	225	23.5	QTZ-SULP	
AUL-19-30	225	227.2	2.2	SERICITE	
AUL-19-30	227.2	249.4	22.2	SERICITE	

RQD

BHID	FROM	TO	LENGTH	RECOVERY	REC_PER	RQD	RQD_PER	Comments
AUL-19-30	48	51	3.00	**2.32**	77%	0.50	22%	
AUL-19-30	51	54	3.00	**2.81**	94%	2.40	86%	
AUL-19-30	54	57	3.00	**3.08**	103%	2.70	88%	
AUL-19-30	57	60	3.00	**3.01**	100%	2.70	90%	
AUL-19-30	60	63	3.00	**3.04**	101%	2.70	89%	
AUL-19-30	63	66	3.00	**2.87**	96%	2.60	91%	
AUL-19-30	66	69	3.00	**2.94**	98%	2.70	92%	
AUL-19-30	69	72	3.00	**3.09**	103%	2.60	84%	
AUL-19-30	72	75	3.00	**2.84**	95%	2.40	84%	
AUL-19-30	75	78	3.00	**2.81**	94%	1.00	36%	
AUL-19-30	78	81	3.00	**2.99**	100%	0.00	0%	
AUL-19-30	81	84	3.00	**2.81**	94%	1.90	68%	
AUL-19-30	84	87	3.00	**3.10**	103%	1.80	58%	
AUL-19-30	87	90	3.00	**3.13**	104%	1.10	35%	
AUL-19-30	90	93	3.00	**2.75**	92%	0.80	29%	
AUL-19-30	93	96	3.00	**2.89**	96%	1.40	48%	
AUL-19-30	96	99	3.00	**3.06**	102%	1.10	36%	
AUL-19-30	99	102	3.00	**2.64**	88%	2.64	100%	
AUL-19-30	102	105	3.00	**3.04**	101%	2.70	89%	
AUL-19-30	105	108	3.00	**2.93**	98%	2.70	92%	
AUL-19-30	108	111	3.00	**3.00**	100%	2.80	93%	
AUL-19-30	111	114	3.00	**3.05**	102%	2.80	92%	
AUL-19-30	114	117	3.00	**2.98**	99%	1.10	37%	
AUL-19-30	117	120	3.00	**2.66**	89%	0.70	26%	
AUL-19-30	120	123	3.00	**3.12**	104%	0.70	22%	
AUL-19-30	123	126	3.00	**2.77**	92%	1.10	40%	
AUL-19-30	126	129	3.00	**2.84**	95%	0.90	32%	
AUL-19-30	129	132	3.00	**2.90**	97%	1.10	38%	
AUL-19-30	132	135	3.00	**2.96**	99%	1.20	41%	
AUL-19-30	135	138	3.00	**2.98**	99%	1.10	37%	
AUL-19-30	138	141	3.00	**2.74**	91%	1.60	58%	
AUL-19-30	141	144	3.00	**2.96**	99%	1.60	54%	
AUL-19-30	144	147	3.00	**2.83**	94%	2.10	74%	
AUL-19-30	147	150	3.00	**2.96**	99%	1.90	64%	
AUL-19-30	150	153	3.00	**2.90**	97%	1.90	65%	
AUL-19-30	153	156	3.00	**3.05**	102%	2.00	65%	
AUL-19-30	156	159	3.00	**2.98**	99%	2.10	70%	
AUL-19-30	159	162	3.00	**3.05**	102%	2.20	72%	
AUL-19-30	162	165	3.00	**2.98**	99%	2.10	71%	
AUL-19-30	165	168	3.00	**2.89**	96%	1.90	66%	
AUL-19-30	168	171	3.00	**2.78**	93%	1.60	58%	
AUL-19-30	171	174	3.00	**3.10**	103%	3.10	100%	
AUL-19-30	174	177	3.00	**2.96**	99%	2.80	94%	
AUL-19-30	177	180	3.00	**2.94**	98%	2.60	88%	
AUL-19-30	180	183	3.00	**2.93**	98%	2.70	92%	
AUL-19-30	183	186	3.00	**3.10**	103%	2.60	84%	
AUL-19-30	186	189	3.00	**2.90**	97%	2.50	86%	
AUL-19-30	189	192	3.00	**2.78**	93%	2.50	90%	
AUL-19-30	192	195	3.00	**3.00**	100%	2.50	83%	

RQD

AUL-19-30	195	198	3.00	**2.96**	99%	2.60	88%
AUL-19-30	198	201	3.00	**2.90**	97%	2.70	93%
AUL-19-30	201	204	3.00	**3.02**	101%	2.80	93%
AUL-19-30	204	207	3.00	**2.93**	98%	2.80	96%
AUL-19-30	207	210	3.00	**3.03**	101%	2.80	92%
AUL-19-30	210	213	3.00	**3.03**	101%	2.90	96%
AUL-19-30	213	216	3.00	**3.00**	100%	2.70	90%
AUL-19-30	216	219	3.00	**3.01**	100%	2.70	90%
AUL-19-30	219	222	3.00	**2.91**	97%	2.80	96%
AUL-19-30	222	225	3.00	**2.92**	97%	2.90	99%
AUL-19-30	225	228	3.00	**2.92**	97%	2.70	92%
AUL-19-30	228	231	3.00	**3.06**	102%	2.90	95%
AUL-19-30	231	234	3.00	**3.02**	101%	2.90	96%
AUL-19-30	234	237	3.00	**2.96**	99%	2.90	98%
AUL-19-30	237	240	3.00	**2.97**	99%	2.90	98%
AUL-19-30	240	243	3.00	**3.03**	101%	3.00	99%
AUL-19-30	243	246	3.00	**2.92**	97%	2.90	99%
AUL-19-30	246	249	3.00	**3.06**	102%	2.90	95%
AUL-19-30	249	252	3.00	**2.89**	96%	2.89	100%
AUL-19-30	252	255	3.00	**2.98**	99%	2.90	97%
AUL-19-30	255	258	3.00	**2.86**	95%	2.70	94%
AUL-19-30	258	261	3.00	**3.06**	102%	2.80	91%
AUL-19-30	261	264	3.00	**2.86**	95%	2.80	98%
AUL-19-30	264	267	3.00	**2.96**	99%	2.90	98%
AUL-19-30	267	270	3.00	**2.95**	98%	2.70	91%
AUL-19-30	270	273	3.00	**2.99**	100%	2.99	100%
AUL-19-30	273	276	3.00	**2.96**	99%	2.90	98%
AUL-19-30	276	279	3.00	**3.05**	102%	2.90	95%
AUL-19-30	279	282	3.00	**3.00**	100%	2.80	93%
AUL-19-30	282	284	2.00	**2.24**	112%	1.90	85%
			236.00	231.70	98%	178.22	77%

Survey

BHID	AT	BRG	DIP	Mag Field	Meas Azi	Use Az	Use Dip	Device	Comments
AUL-19-30	60.0	177.9	-55.2	5839	190.9	Yes	Yes	Reflex EZ-Shot	
AUL-19-30	111.0	181.6	-55.0	5703	194.6	Yes	Yes	Reflex EZ-Shot	
AUL-19-30	162	181	-54.9	5647	194	Yes	Yes	Reflex EZ-Shot	
AUL-19-30	213	188.8	-54.3	5353	201.8	No	Yes	Reflex EZ-Shot	
AUL-19-30	276	183.4	-53.6	5580	196.4	Yes	Yes	Reflex EZ-Shot	

Samples

Sample Number	Type	QAQC	BHID	FROM	TO	LENGTH			SAMPLE WEIGHT	Au PPM (FA430) - Lab	Au GMT	Au Final
1703172	Split Core		AUL-19-30	48	49	1	1703172	Drill Core	1.66	0.31		0.31
1703173	Split Core		AUL-19-30	49	50	1	1703173	Drill Core	1.95	1.514		1.514
1703174	Split Core	DUP	AUL-19-30	50	51	1	1703174	Drill Core	1.29	0.565		0.565
1703175	1/4 Core	DUP					1703175	Drill Core	1.23	0.026		0.026
1703176	Split Core		AUL-19-30	51	52	1	1703176	Drill Core	1.19	0.01		0.01
1703177	Split Core		AUL-19-30	52	53	1	1703177	Drill Core	2.3	0.029		0.029
1703178	Split Core		AUL-19-30	53	54	1	1703178	Drill Core	2.02	0.021		0.021
1703179	Split Core		AUL-19-30	54	55	1	1703179	Drill Core	2.42	0.024		0.024
1703180	Split Core		AUL-19-30	55	56	1	1703180	Drill Core	2.27	0.019		0.019
1703181	Split Core		AUL-19-30	70	71	1	1703181	Drill Core	2.23	0.005		0.005
1703182	Split Core		AUL-19-30	71	72	1	1703182	Drill Core	2.42	0.025		0.025
1703183	Split Core		AUL-19-30	72	73	1	1703183	Drill Core	2.16	0.01		0.01
1703184	Split Core		AUL-19-30	73	74	1	1703184	Drill Core	2.36	<0.005		0.0025
1703185	Standard	217					1703185	Pulp	0.07	0.345		0.345
1703186	Split Core		AUL-19-30	74	75	1	1703186	Drill Core	1.89	<0.005		0.0025
1703187	Split Core		AUL-19-30	75	76	1	1703187	Drill Core	1.9	<0.005		0.0025
1703188	Split Core		AUL-19-30	76	77	1	1703188	Drill Core	2.38	0.292		0.292
1703189	Split Core		AUL-19-30	77	78	1	1703189	Drill Core	2.33	0.22		0.22
1703190	Blank	BLANK					1703190	Rock	0.39	<0.005		0.0025
1703191	Split Core		AUL-19-30	78	79	1	1703191	Drill Core	1.55	0.492		0.492
1703192	Split Core		AUL-19-30	79	80	1	1703192	Drill Core	2.06	0.493		0.493
1703193	Split Core		AUL-19-30	80	81	1	1703193	Drill Core	1.44	0.066		0.066
1703194	Split Core		AUL-19-30	100	101	1	1703194	Drill Core	2.03	0.014		0.014
1703195	Split Core		AUL-19-30	101	102	1	1703195	Drill Core	2.36	<0.005		0.0025
1703196	Split Core		AUL-19-30	102	103	1	1703196	Drill Core	2.22	0.006		0.006
1703197	Split Core		AUL-19-30	103	104	1	1703197	Drill Core	2.17	<0.005		0.0025
1703198	Split Core		AUL-19-30	104	105	1	1703198	Drill Core	2.38	<0.005		0.0025
1703199	Split Core	DUP	AUL-19-30	105	106	1	1703199	Drill Core	1.13	<0.005		0.0025
1703200	1/4 Core	DUP					1703200	Drill Core	1.03	<0.005		0.0025
1703201	Split Core		AUL-19-30	106	107	1	1703201	Drill Core	2.6	0.005		0.005
1703202	Split Core		AUL-19-30	183	184	1	1703202	Drill Core	2.11	0.008		0.008
1703203	Split Core		AUL-19-30	184	185	1	1703203	Drill Core	2.42	0.009		0.009
1703204	Split Core		AUL-19-30	185	186	1	1703204	Drill Core	2.7	0.012		0.012

Samples

1703205	Split Core		AUL-19-30	186	187	1	1703205	Drill Core	1.83	0.021	0.021
1703206	Split Core		AUL-19-30	187	188	1	1703206	Drill Core	2.28	0.033	0.033
1703207	Split Core		AUL-19-30	188	189	1	1703207	Drill Core	2.11	0.077	0.077
1703208	Split Core		AUL-19-30	189	190	1	1703208	Drill Core	2.45	0.09	0.09
1703209	Split Core		AUL-19-30	190	191	1	1703209	Drill Core	2.06	0.052	0.052
1703210	Standard	216					1703210	Pulp	0.1	6.689	6.689
1703211	Split Core		AUL-19-30	191	192	1	1703211	Drill Core	2.14	0.097	0.097
1703212	Split Core		AUL-19-30	192	192.6	0.6	1703212	Drill Core	1.44	0.02	0.02
1703213	Split Core		AUL-19-30	192.6	193.5	0.9	1703213	Drill Core	2.47	0.121	0.121
1703214	Split Core		AUL-19-30	193.5	194.5	1	1703214	Drill Core	2.06	0.014	0.014
1703215	Split Core		AUL-19-30	194.5	195.5	1	1703215	Drill Core	2.36	0.04	0.04
1703216	Split Core		AUL-19-30	195.5	196.5	1	1703216	Drill Core	2.28	0.087	0.087
1703217	Split Core		AUL-19-30	196.5	197	0.5	1703217	Drill Core	1.62	0.639	0.639
1703218	Split Core		AUL-19-30	197	198	1	1703218	Drill Core	2.33	0.74	0.74
1703219	Split Core		AUL-19-30	198	199	1	1703219	Drill Core	3.27	1.797	1.797
1703220	Split Core		AUL-19-30	199	199.75	0.75	1703220	Drill Core	2.63	0.821	0.821
1703221	Split Core		AUL-19-30	199.75	200.5	0.75	1703221	Drill Core	1.17	0.115	0.115
1703222	Split Core		AUL-19-30	200.5	201.5	1	1703222	Drill Core	2.27	0.041	0.041
1703223	Split Core		AUL-19-30	201.5	202.5	1	1703223	Drill Core	2.18	2.52	2.52
1703224	Split Core	DUP	AUL-19-30	202.5	203.5	1	1703224	Drill Core	1.13	0.568	0.568
1703225	1/4 Core	DUP					1703225	Drill Core	1.06	0.714	0.714
1703226	Split Core		AUL-19-30	203.5	204.15	0.65	1703226	Drill Core	1.81	0.927	0.927
1703227	Split Core		AUL-19-30	204.15	205.3	1.15	1703227	Drill Core	2.42	2.796	2.796
1703228	Split Core		AUL-19-30	205.3	205.9	0.6	1703228	Drill Core	2.2	2.595	2.595
1703229	Split Core		AUL-19-30	205.9	207	1.1	1703229	Drill Core	2.93	>10.000	10.5
1703230	Split Core		AUL-19-30	207	208	1	1703230	Drill Core	3.04	>10.000	13.9
1703231	Split Core		AUL-19-30	208	209	1	1703231	Drill Core	2.32	5.111	5.111
1703232	Split Core		AUL-19-30	209	210	1	1703232	Drill Core	1.71	8.037	8.037
1703233	Split Core		AUL-19-30	210	211	1	1703233	Drill Core	2.15	2.373	2.373
1703234	Split Core		AUL-19-30	211	212	1	1703234	Drill Core	1.9	0.237	0.237
1703235	Standard	217					1703235	Pulp	0.11	0.346	0.346
1703236	Split Core		AUL-19-30	212	213	1	1703236	Drill Core	2.66	0.714	0.714
1703237	Split Core		AUL-19-30	213	214	1	1703237	Drill Core	2.58	2.369	2.369
1703238	Split Core		AUL-19-30	214	214.75	0.75	1703238	Drill Core	1.89	0.324	0.324

Samples

1703239	Split Core		AUL-19-30	214.75	216	1.25	1703239	Drill Core	3.29		7.58	7.58
1703240	Blank	BLANK					1703240	Rock	0.31		0.008	0.008
1703241	Split Core		AUL-19-30	216	216.5	0.5	1703241	Drill Core	3.73		3.524	3.524
1703242	Split Core		AUL-19-30	216.5	217.5	1	1703242	Drill Core	2.04		0.758	0.758
1703243	Split Core		AUL-19-30	217.5	218.5	1	1703243	Drill Core	2.93		5.269	5.269
1703244	Split Core		AUL-19-30	218.5	219.5	1	1703244	Drill Core	2.68		9.639	9.639
1703245	Split Core		AUL-19-30	219.5	220.6	1.1	1703245	Drill Core	2.73	>10.000		12.4
1703246	Split Core		AUL-19-30	220.6	221.5	0.9	1703246	Drill Core	2.13		0.447	0.447
1703247	Split Core		AUL-19-30	221.5	222.2	0.7	1703247	Drill Core	1.38		1.543	1.543
1703248	Split Core		AUL-19-30	222.2	223	0.8	1703248	Drill Core	2.07		6.575	6.575
1703249	Split Core	DUP	AUL-19-30	223	223.65	0.65	1703249	Drill Core	0.85		2.153	2.153
1703250	1/4 Core	DUP					1703250	Drill Core	0.67		2.21	2.21
1703251	Split Core		AUL-19-30	223.65	225	1.35	1703251	Drill Core	2.92		0.593	0.593
1703252	Split Core		AUL-19-30	225	226	1	1703252	Drill Core	2.52		1.221	1.221
1703253	Split Core		AUL-19-30	226	227	1	1703253	Drill Core	2.08		0.147	0.147
1703254	Split Core		AUL-19-30	227	228	1	1703254	Drill Core	2.27		1.648	1.648
1648180	Split Core		AUL-19-30	228	229	1	1648180	Drill Core	2.11		0.135	0.135
1648181	Split Core		AUL-19-30	229	230	1	1648181	Drill Core	2.1		0.014	0.014
1648182	Split Core		AUL-19-30	230	231	1	1648182	Drill Core	2.43		0.008	0.008
1648183	Split Core		AUL-19-30	231	232	1	1648183	Drill Core	2.55		0.006	0.006
1648184	Split Core		AUL-19-30	232	233	1	1648184	Drill Core	2.53		0.012	0.012
1648185	Split Core		AUL-19-30	233	234	1	1648185	Drill Core	2.61		0.042	0.042
1703255	Split Core		AUL-19-30	244	245	1	1703255	Drill Core	2.34		0.022	0.022
1703256	Split Core		AUL-19-30	245	246	1	1703256	Drill Core	1.85		0.135	0.135
1703257	Split Core		AUL-19-30	246	247	1	1703257	Drill Core	2.21	<0.005		0.0025
1703258	Split Core		AUL-19-30	247	248	1	1703258	Drill Core	2.27		0.009	0.009
1703259	Split Core		AUL-19-30	248	248.5	0.5	1703259	Drill Core	1.17		0.009	0.009
1703260	Standard	216					1703260	Pulp	0.1		6.63	6.63
1703261	Split Core		AUL-19-30	248.5	249.1	0.6	1703261	Drill Core	1.68		0.051	0.051
1703262	Split Core		AUL-19-30	249.1	250	0.9	1703262	Drill Core	2.09		0.01	0.01
1703263	Split Core		AUL-19-30	250	251	1	1703263	Drill Core	2.4		0.006	0.006
1703264	Split Core		AUL-19-30	251	252	1	1703264	Drill Core	2.14		0.019	0.019
1703265	Split Core		AUL-19-30	252	253	1	1703265	Drill Core	2.48		0.007	0.007
1703266	Split Core		AUL-19-30	253	254	1	1703266	Drill Core	2.39		0.007	0.007

Samples

1703267	Split Core	AUL-19-30	254	255	1	1703267	Drill Core	2.25	<0.005		0.0025

Header

	LOCATION (NAD83 17N)					PLANNED	
DDH ID	**XCOLLAR**	**YCOLLAR**	**ZCOLLAR**	**DEPTH**	**ROCK**	**BRG**	**DIP**
AUL-19-31	592327	5483381	283	417	366.5	183	-60

	Legacy	Cell
Claim Number	3019086	182116 (Collar), 156044, 311282

Purpose	To test down-dip extension of main zone below and to the east of AUL-18-16
Result	Intersected zone as expected
Start date	2019-02-28
End date	2019-03-04
Drill Contractor	NOREX
Logged By	Scott Zelligan

Description

BHID	FROM	TO	LENGTH	LITHO	SIMPLIFIED	Comment
AUL-19-31	0	50.5	50.5	OVB	OVB	Not recovered, fragments of possible boulders/pebbles including pink granitic
AUL-19-31	50.5	53	2.5	QPtuff	QPtuff	Quartz-phyric fine-grained with saprolitic alteration (intermittent) and quartz-phyric fragments up to 1cm.
AUL-19-31	53	69	16	RUBBLE	RUBBLE	Broken and heavily altered interval. Agglomerated clay intervals, saprolitic alteration,
AUL-19-31	69	72.4	3.4	FLTpart	FLTpart	Strongly altered, possibly healed fault with saprolitic alteration (heavily broken)
AUL-19-31	72.4	87	14.6	QPtuffPC	QPtuff	Strongly altered, beginning of interval appears to be saprolitically altered qptuff, heavily broken at start (first 3m). Strongly contrasted polymictic conglomerate and matrix (quartz-phyric tuff).
AUL-19-31	87	88	1	RUBBLE	RUBBLE	broken argillite interval
AUL-19-31	88	96	8	ARG	ARG	banded with strong quartz-carbonate veining, dark grey, fine-grained
AUL-19-31	96	97.2	1.2	BLCHarg	ARG	bleached interval, fine-grained, strongly banded, abundant quartz-carbonate
AUL-19-31	97.2	124.85	27.65	ARG	ARG	banded with strong quartz-carbonate veining, dark grey, fine-grained
AUL-19-31	124.85	181.5	56.65	IF	IF	Strongly banded, dark/light banding (1-5cm widths), intervals of argillite, intermittent quartz veining, intermittent magnetite beds.
AUL-19-31	181.5	183.6	2.1	MS	MS	Bed replacement banded pyrite? Appears to be folded? Fragments of iron formation? Massive pyrite beds/banding (25-40%)
AUL-19-31	183.6	186	2.4	BLCHtfPC	MZLOW	Strongly banded, strongly altered, suspected polymictic conglomerate but if so clasts are difficult to discern as mostly flattened
AUL-19-31	186	187.6	1.6	BLCH	BLCH	Bleached interval, unsure of providence (quartz veining?)
AUL-19-31	187.6	214.75	27.15	QPtuffPC	QPtuff	Elongated clasts, banding, light to moderate sericite alteration, fine-grained quartz-phyric tuff matrix
AUL-19-31	214.75	217.3	2.55	Qptuff	QPtuff	Strongly banded altered interval with quartz-carbonate veining, assumed to be continuation of previous interval
AUL-19-31	217.3	236.1	18.8	IF	IF	Strongly banded, dark/light banding (1-5cm widths), intervals of argillite, intermittent quartz veining, intermittent magnetite beds. Sericite altered in parts
AUL-19-31	236.1	236.2	0.1	MS	MS	Massive pyrite bed/vein
AUL-19-31	236.2	237.6	1.4	IF	IF	Strongly banded, dark/light banding (1-5cm widths), intermittent magnetite beds.
AUL-19-31	237.6	237.7	0.1	MS	MS	Massive pyrite bed/vein
AUL-19-31	237.7	240	2.3	IF	IF	Strongly banded, dark/light banding (1-5cm widths), intermittent magnetite beds.
AUL-19-31	240	246	6	FLThea	FLThea	banded with strong quartz-carbonate veining, dark grey, fine-grained, intermittent pyrite veins
AUL-19-31	246	248.4	2.4	FLThea	FLThea	intermittently banded, more prominent quartz veining, mostly massively white with dark ribbons
AUL-19-31	248.4	253	4.6	MZ	MZMID	Massive grey-white quartz veining with intermittent cubic pyrite veins/beds/banding
AUL-19-31	253	255.5	2.5	IF	IF	Strongly banded, dark/light banding (1-5cm widths), intermittent magnetite beds.
AUL-19-31	255.5	258	2.5	MZ	MZMID	Massive grey-white quartz veining with intermittent cubic pyrite veins/beds/banding, with intermittent iron formation
AUL-19-31	258	278.5	20.5	ARG	ARG	Dark grey, banded, strongly altered, abundant quartz veining over first 10m, intermittent afterwards, banded/veinlets of pyrite building at end of interval

Description

AUL-19-31	278.5	278.85	0.35	MS	MS	10-25% massive/semi-massive pyrite (framboidal pyrite)
AUL-19-31	278.85	299.9	21.05	ARG	ARG	Dark grey, banded, abundant quartz veining over first 10m, intermittent afterwards, banded/veinlets of pyrite at start of interval, intermittent pyrite veinlets/bands/beds and cubic pyrite (1cm)
AUL-19-31	299.9	355.6	55.7	ARG	ARG	grey massive-textured argillite, weak to moderate banding, intermittent quartz-carbonate veining
AUL-19-31	355.6	358.3	2.7	FLThea	FLThea	Quartz veining in broken/healed faulted argillite?
AUL-19-31	358.3	369.6	11.3	MZ	MZMID	White mottled quartz veining, with intermittent intervals of massive pyrite with intermittent arsenopyrite replacement of coarse-grained cubic pyrite
AUL-19-31	369.6	396	26.4	BLCHtuff	BLCHtuff	Sericite altered, quartz-carbonate veined, bleached quartz-phyric tuff
AUL-19-31	396	417	21	QPtuff	QPtuff	Banded, fine to medium-grained quartz-phyric tuff, intermittent intervals of polymictic conglomerate

Mineralization

BHID	FROM	TO	LENGTH	PY_PER	ASP_PER	TOTAL_PER	STYLE	Comments
AUL-19-31	181.5	183.6	2.1	30			MASS	
AUL-19-31	236.1	236.2	0.1	50			MASS	
AUL-19-31	237.6	237.7	0.1	50			MASS	
AUL-19-31	240	246	6	1			VEINLETS	
AUL-19-31	248.4	253	4.6	0.5			VEINLETS	
AUL-19-31	255.5	258	2.5	0.5			VEINLETS	
AUL-19-31	258	278.5	20.5	0.5			VEINLETS	
AUL-19-31	278.5	278.85	0.35	20			BANDS	
AUL-19-31	278.85	299.9	21.05	1			BANDS	
AUL-19-31	358.3	369.6	11.3	5			MASS	
AUL-19-31	369.6	396	26.4	0.5			DISS	

Quartz-Carb

BHID	FROM	TO	LENGTH	NUMPERM	TYPE	Comment
AUL-19-31	72.4	87	14.6	5	VEINLETS	
AUL-19-31	96	97.2	1.2	10	VEINLETS	
AUL-19-31	97.2	124.85	27.65	5	VEINLETS	
AUL-19-31	124.85	181.5	56.65	5	VEINLETS	
AUL-19-31	214.75	217.3	2.55	3	VEINLETS	
AUL-19-31	217.3	236.1	18.8	2	VEINLETS	
AUL-19-31	240	246	6	2	VEINS	
AUL-19-31	246	248.4	2.4	2	VEINS	
AUL-19-31	248.4	253	4.6	2	VEINS	
AUL-19-31	255.5	258	2.5	2	MASS	
AUL-19-31	258	278.5	20.5	10	VEINS	
AUL-19-31	278.85	299.9	21.05	5	VEINLETS	
AUL-19-31	299.9	355.6	55.7	1	VEINLETS	
AUL-19-31	355.6	358.3	2.7	3	VEINS	
AUL-19-31	358.3	369.6	11.3	5	MASS	
AUL-19-31	369.6	396	26.4	5	VEINS/MASS	

Structure

BHID	FROM	TO	LENGTH	Deg to CA	STRUCTURE	Comment
AUL-19-31	53	69	16		RUBBLE	
AUL-19-31	69	72	3.4		BROKEN	
AUL-19-31	73	75.5	2.5		GOUGE	
AUL-19-31	85.6	87	1.4	10	FRACTURE	
AUL-19-31	87	88	1		RUBBLE	
AUL-19-31	91.4	92.6	1.2		BROKEN	
AUL-19-31	183.6	186	2.4	50	FLThea	
AUL-19-31	240	246	6	40	FLThea	
AUL-19-31	246	248.4	2.4	30	FLThea	
AUL-19-31	248.4	253	4.6	20	FLThea	
AUL-19-31	255.5	258	2.5	30	FLThea	
AUL-19-31	355.6	358.3	2.7	45	FLThea	
AUL-19-31	358.3	369.6	11.3	45	FLThea	
AUL-19-31	369.6	396	26.4	30	FRACTURE	

Alteration

BHID	FROM	TO	LENGTH	ALTERATION	Comments
AUL-19-31	50.5	75	24.5	SAPROLITE	
AUL-19-31	75	87	12	SERICITE	
AUL-19-31	96	97.3	1.3	BLEACHED	
AUL-19-31	124.8	134.5	9.7	SERICITE	
AUL-19-31	148	181.5	33.5	SERICITE	
AUL-19-31	183.6	186	2.4	SERICITE	
AUL-19-31	186	187.6	1.6	SERICITE	
AUL-19-31	369.6	396	26.4	SERICITE	

RQD

BHID	FROM	TO	LENGTH	RECOVERY	REC_PER	RQD	RQD_PER	Comments
AUL-19-31	51	54	3.00	**2.47**	82%	0.40	16%	
AUL-19-31	54	57	3.00	**2.33**	78%	0.10	4%	
AUL-19-31	57	60	3.00	**1.35**	45%	0.00	0%	
AUL-19-31	60	63	3.00	**1.29**	43%	0.20	15%	
AUL-19-31	63	66	3.00	**1.16**	39%	0.10	9%	
AUL-19-31	66	69	3.00	**2.12**	71%	0.00	0%	
AUL-19-31	69	72	3.00	**1.97**	66%	0.00	0%	
AUL-19-31	72	75	3.00	**2.00**	67%	0.10	5%	
AUL-19-31	75	78	3.00	**2.99**	100%	0.40	13%	
AUL-19-31	78	81	3.00	**2.97**	99%	0.60	20%	
AUL-19-31	81	84	3.00	**2.82**	94%	1.10	39%	
AUL-19-31	84	87	3.00	**2.91**	97%	0.80	28%	
AUL-19-31	87	90	3.00	**2.30**	77%	0.70	30%	
AUL-19-31	90	93	3.00	**2.96**	99%	0.60	20%	
AUL-19-31	93	96	3.00	**2.71**	90%	0.70	26%	
AUL-19-31	96	99	3.00	**3.09**	103%	1.30	42%	
AUL-19-31	99	102	3.00	**2.74**	91%	1.90	69%	
AUL-19-31	102	105	3.00	**2.93**	98%	1.10	38%	
AUL-19-31	105	108	3.00	**2.97**	99%	2.10	71%	
AUL-19-31	108	111	3.00	**2.94**	98%	1.70	58%	
AUL-19-31	111	114	3.00	**2.89**	96%	1.40	49%	
AUL-19-31	114	117	3.00	**2.95**	98%	1.40	47%	
AUL-19-31	117	120	3.00	**2.80**	93%	1.80	64%	
AUL-19-31	120	123	3.00	**2.99**	100%	1.60	54%	
AUL-19-31	123	126	3.00	**2.93**	98%	1.80	61%	
AUL-19-31	126	129	3.00	**3.03**	101%	1.70	56%	
AUL-19-31	129	132	3.00	**2.98**	99%	0.90	30%	
AUL-19-31	132	135	3.00	**2.83**	94%	1.60	57%	
AUL-19-31	135	138	3.00	**2.97**	99%	1.60	54%	
AUL-19-31	138	141	3.00	**2.91**	97%	1.40	48%	
AUL-19-31	141	144	3.00	**3.11**	104%	1.50	48%	
AUL-19-31	144	147	3.00	**2.98**	99%	1.10	37%	
AUL-19-31	147	150	3.00	**3.04**	101%	1.10	36%	
AUL-19-31	150	153	3.00	**2.92**	97%	1.40	48%	
AUL-19-31	153	156	3.00	**3.06**	102%	2.10	69%	
AUL-19-31	156	159	3.00	**3.04**	101%	1.80	59%	
AUL-19-31	159	162	3.00	**3.06**	102%	2.00	65%	
AUL-19-31	162	165	3.00	**2.96**	99%	2.20	74%	
AUL-19-31	165	168	3.00	**3.00**	100%	1.90	63%	
AUL-19-31	168	171	3.00	**2.72**	91%	1.80	66%	
AUL-19-31	171	174	3.00	**3.01**	100%	2.10	70%	
AUL-19-31	174	177	3.00	**2.94**	98%	2.10	71%	
AUL-19-31	177	180	3.00	**3.00**	100%	2.30	77%	
AUL-19-31	180	183	3.00	**3.00**	100%	2.40	80%	
AUL-19-31	183	186	3.00	**2.90**	97%	1.90	66%	
AUL-19-31	186	189	3.00	**2.95**	98%	2.10	71%	
AUL-19-31	189	192	3.00	**2.97**	99%	2.10	71%	
AUL-19-31	192	195	3.00	**3.04**	101%	2.00	66%	
AUL-19-31	195	198	3.00	**2.80**	93%	2.10	75%	

RQD

AUL-19-31	198	201	3.00	**2.88**	96%	2.30	80%
AUL-19-31	201	204	3.00	**2.90**	97%	2.60	90%
AUL-19-31	204	207	3.00	**2.60**	87%	2.60	100%
AUL-19-31	207	210	3.00	**2.87**	96%	2.80	97%
AUL-19-31	210	213	3.00	**2.99**	100%	2.80	94%
AUL-19-31	213	216	3.00	**2.91**	97%	2.90	100%
AUL-19-31	216	219	3.00	**2.94**	98%	2.70	92%
AUL-19-31	219	222	3.00	**2.91**	97%	2.60	89%
AUL-19-31	222	225	3.00	**3.05**	102%	2.10	69%
AUL-19-31	225	228	3.00	**3.02**	101%	2.40	79%
AUL-19-31	228	231	3.00	**3.00**	100%	2.20	73%
AUL-19-31	231	234	3.00	**3.15**	105%	2.10	67%
AUL-19-31	234	237	3.00	**2.95**	98%	1.90	65%
AUL-19-31	237	240	3.00	**2.97**	99%	2.20	74%
AUL-19-31	240	243	3.00	**3.02**	101%	2.60	86%
AUL-19-31	243	246	3.00	**2.97**	99%	2.60	87%
AUL-19-31	246	249	3.00	**3.01**	100%	2.50	83%
AUL-19-31	249	252	3.00	**3.00**	100%	2.60	87%
AUL-19-31	252	255	3.00	**3.04**	101%	2.50	82%
AUL-19-31	255	258	3.00	**2.88**	96%	2.50	87%
AUL-19-31	258	261	3.00	**3.03**	101%	1.10	36%
AUL-19-31	261	264	3.00	**2.89**	96%	0.80	28%
AUL-19-31	264	267	3.00	**2.94**	98%	1.70	58%
AUL-19-31	267	270	3.00	**2.98**	99%	1.90	64%
AUL-19-31	270	273	3.00	**2.94**	98%	2.40	82%
AUL-19-31	273	276	3.00	**2.96**	99%	2.80	95%
AUL-19-31	276	279	3.00	**2.93**	98%	2.70	92%
AUL-19-31	279	282	3.00	**2.95**	98%	2.60	88%
AUL-19-31	282	285	3.00	**2.87**	96%	2.60	91%
AUL-19-31	285	288	3.00	**2.98**	99%	2.60	87%
AUL-19-31	288	291	3.00	**2.90**	97%	2.70	93%
AUL-19-31	291	294	3.00	**3.07**	102%	2.80	91%
AUL-19-31	294	297	3.00	**2.89**	96%	2.60	90%
AUL-19-31	297	300	3.00	**2.94**	98%	2.80	95%
AUL-19-31	300	303	3.00	**2.98**	99%	2.70	91%
AUL-19-31	303	306	3.00	**3.05**	102%	2.60	85%
AUL-19-31	306	309	3.00	**3.09**	103%	2.70	88%
AUL-19-31	309	312	3.00	**2.93**	98%	2.80	96%
AUL-19-31	312	315	3.00	**2.90**	97%	2.90	100%
AUL-19-31	315	318	3.00	**2.88**	96%	2.80	97%
AUL-19-31	318	321	3.00	**2.86**	95%	2.70	95%
AUL-19-31	321	324	3.00	**2.92**	97%	2.80	96%
AUL-19-31	324	327	3.00	**2.97**	99%	1.80	61%
AUL-19-31	327	330	3.00	**2.79**	93%	2.40	86%
AUL-19-31	330	333	3.00	**3.04**	101%	2.70	89%
AUL-19-31	333	336	3.00	**2.88**	96%	2.70	94%
AUL-19-31	336	339	3.00	**3.07**	102%	2.70	88%
AUL-19-31	339	342	3.00	**2.62**	87%	2.62	100%
AUL-19-31	342	345	3.00	**3.07**	102%	2.40	78%
AUL-19-31	345	348	3.00	**3.03**	101%	2.80	92%

RQD

AUL-19-31	348	351	3.00	**2.92**	97%	2.80	96%
AUL-19-31	351	354	3.00	**2.95**	98%	2.70	91%
AUL-19-31	354	357	3.00	**2.62**	87%	2.40	92%
AUL-19-31	357	360	3.00	**2.98**	99%	2.98	100%
AUL-19-31	360	363	3.00	**2.99**	100%	3.00	100%
AUL-19-31	363	366	3.00	**2.98**	99%	2.90	97%
AUL-19-31	366	369	3.00	**3.06**	102%	2.90	95%
AUL-19-31	369	372	3.00	**2.98**	99%	2.90	97%
AUL-19-31	372	375	3.00	**3.01**	100%	2.90	96%
AUL-19-31	375	378	3.00	**3.06**	102%	3.00	98%
AUL-19-31	378	381	3.00	**2.96**	99%	2.90	98%
AUL-19-31	381	384	3.00	**2.96**	99%	2.96	100%
AUL-19-31	384	387	3.00	**3.07**	102%	3.07	100%
AUL-19-31	387	390	3.00	**3.00**	100%	3.00	100%
AUL-19-31	390	393	3.00	**3.01**	100%	3.01	100%
AUL-19-31	393	396	3.00	**3.20**	107%	3.20	100%
AUL-19-31	396	399	3.00	**2.94**	98%	2.90	99%
AUL-19-31	399	402	3.00	**2.87**	96%	2.80	98%
AUL-19-31	402	405	3.00	**2.91**	97%	2.80	96%
AUL-19-31	405	408	3.00	**2.95**	98%	2.60	88%
AUL-19-31	408	411	3.00	**2.92**	97%	2.80	96%
AUL-19-31	411	414	3.00	**2.97**	99%	2.70	91%
AUL-19-31	414	417	3.00	**2.98**	99%	2.60	87%
			366.00	350.49	96%	254.64	73%

Survey

BHID	AT	BRG	DIP	Mag Field	Meas Azi	Use Az	Use Dip	Device	Comments
AUL-19-31	90.0	185.1	-60.2	5756	198.1	Yes	Yes	Reflex EZ-Shot	
AUL-19-31	141.0	180.8	-59.9	5699	193.8	Yes	Yes	Reflex EZ-Shot	
AUL-19-31	192	179.1	-59.1	5744	192.1	Yes	Yes	Reflex EZ-Shot	
AUL-19-31	243	186.3	-57.8	5708	199.3	No	Yes	Reflex EZ-Shot	Big azimuth change, inconsistent
AUL-19-31	294	178.5	-56.1	5548	191.5	Yes	Yes	Reflex EZ-Shot	
AUL-19-31	345	181.5	-55.5	5537	194.5	Yes	Yes	Reflex EZ-Shot	
AUL-19-31	408	180.3	-54.3	5521	193.3	Yes	Yes	Reflex EZ-Shot	

Samples

Sample Number	Type	QAQC	BHID	FROM	TO	LENGTH		SAMPLE WEIGHT	Au PPM (FA430) - Lab	Au GMT	Au Final
1703268	Split Core		AUL-19-31	51	51.75	0.75	2E+06 Drill Cor	1.64	<0.005		0.0025
1703269	Split Core		AUL-19-31	51.75	52.25	0.5	2E+06 Drill Cor	0.7	<0.005		0.0025
1703270	Split Core		AUL-19-31	52.25	53	0.75	2E+06 Drill Cor	1.5		0.007	0.007
1703271	Split Core		AUL-19-31	67	69	2	2E+06 Drill Cor	2.64		0.02	0.02
1703272	Split Core		AUL-19-31	69	69.8	0.8	2E+06 Drill Cor	1.46		0.016	0.016
1703273	Split Core		AUL-19-31	69.8	71	1.2	2E+06 Drill Cor	0.86		0.014	0.014
1703274	Split Core	DUP	AUL-19-31	71	72	1	2E+06 Drill Cor	0.44		0.01	0.01
1703275	1/4 Core	DUP					2E+06 Drill Cor	0.42		0.01	0.01
1703276	Split Core		AUL-19-31	72	72.5	0.5	2E+06 Drill Cor	1.23		0.007	0.007
1703277	Split Core		AUL-19-31	72.5	74	1.5	2E+06 Drill Cor	0.64		0.013	0.013
1703278	Split Core		AUL-19-31	74	75	1	2E+06 Drill Cor	1.11		0.012	0.012
1703279	Split Core		AUL-19-31	75	76.5	1.5	2E+06 Drill Cor	1.96		0.006	0.006
1703280	Split Core		AUL-19-31	76.5	77.5	1	2E+06 Drill Cor	1.89	<0.005		0.0025
1703281	Split Core		AUL-19-31	77.5	78.5	1	2E+06 Drill Cor	1.76	<0.005		0.0025
1703282	Split Core		AUL-19-31	78.5	79.5	1	2E+06 Drill Cor	2.28		0.006	0.006
1703283	Split Core		AUL-19-31	79.5	80.5	1	2E+06 Drill Cor	2.01		0.007	0.007
1703284	Split Core		AUL-19-31	80.5	81.5	1	2E+06 Drill Cor	1.87		0.007	0.007
1703285	Standard	217					2E+06 Pulp	0.11		0.333	0.333
1703286	Split Core		AUL-19-31	81.5	82.5	1	2E+06 Drill Cor	1.89	<0.005		0.0025
1703287	Split Core		AUL-19-31	82.5	83.5	1	2E+06 Drill Cor	1.6		0.006	0.006
1703288	Split Core		AUL-19-31	83.5	84.5	1	2E+06 Drill Cor	2.26		0.007	0.007
1703289	Split Core		AUL-19-31	84.5	85.5	1	2E+06 Drill Cor	2.17		0.005	0.005
1703290	Blank	BLANK					2E+06 Rock	0.38	<0.005		0.0025
1703291	Split Core		AUL-19-31	85.5	86.5	1	2E+06 Drill Cor	1.1		0.008	0.008
1703292	Split Core		AUL-19-31	179.5	180.5	1	2E+06 Drill Cor	2.39		0.336	0.336
1703293	Split Core		AUL-19-31	180.5	181.5	1	2E+06 Drill Cor	1.93		0.1	0.1
1703294	Split Core		AUL-19-31	181.5	182.5	1	2E+06 Drill Cor	2.26		0.057	0.057
1703295	Split Core		AUL-19-31	182.5	183.6	1.1	2E+06 Drill Cor	2.98		0.11	0.11
1703296	Split Core		AUL-19-31	183.6	184.5	0.9	2E+06 Drill Cor	2.62		0.023	0.023
1703297	Split Core		AUL-19-31	184.5	185.5	1	2E+06 Drill Cor	1.69		0.517	0.517
1703298	Split Core		AUL-19-31	185.5	186.5	1	2E+06 Drill Cor	2.61		0.532	0.532
1703299	Split Core	DUP	AUL-19-31	186.5	187.5	1	2E+06 Drill Cor	1.02		0.031	0.031
1703300	1/4 Core	DUP					2E+06 Drill Cor	1.34		0.025	0.025

Samples

1703301	Split Core		AUL-19-31	187.5	188.5	1	2E+06	Drill Cor	2.11	<0.005		0.0025
1703302	Split Core		AUL-19-31	188.5	189.5	1	2E+06	Drill Cor	2.42	<0.005		0.0025
1703303	Split Core		AUL-19-31	227	228	1	2E+06	Drill Cor	2.66	<0.005		0.0025
1703304	Split Core		AUL-19-31	228	229	1	2E+06	Drill Cor	1.87		0.013	0.013
1703305	Split Core		AUL-19-31	229	230	1	2E+06	Drill Cor	2.91		0.074	0.074
1703306	Split Core		AUL-19-31	230	230.5	0.5	2E+06	Drill Cor	2.12		0.008	0.008
1703307	Split Core		AUL-19-31	230.5	231.25	0.75	2E+06	Drill Cor	1.47	<0.005		0.0025
1703308	Split Core		AUL-19-31	231.25	232.25	1	2E+06	Drill Cor	2.12		0.015	0.015
1703309	Split Core		AUL-19-31	232.25	233.5	1.25	2E+06	Drill Cor	1.86		0.016	0.016
1703310	Standard	216					2E+06	Pulp	0.1		6.539	6.539
1703311	Split Core		AUL-19-31	233.5	234.5	1	2E+06	Drill Cor	3.94	<0.005		0.0025
1703312	Split Core		AUL-19-31	234.5	235.4	0.9	2E+06	Drill Cor	1.66	<0.005		0.0025
1703313	Split Core		AUL-19-31	235.4	236	0.6	2E+06	Drill Cor	1.4	<0.005		0.0025
1703314	Split Core		AUL-19-31	236	236.5	0.5	2E+06	Drill Cor	1.65		0.022	0.022
1703315	Split Core		AUL-19-31	236.5	237.4	0.9	2E+06	Drill Cor	1.61	<0.005		0.0025
1703316	Split Core		AUL-19-31	237.4	238.75	1.35	2E+06	Drill Cor	3.05		0.074	0.074
1703317	Split Core		AUL-19-31	238.75	239.8	1.05	2E+06	Drill Cor	2.54		0.143	0.143
1703318	Split Core		AUL-19-31	239.8	241	1.2	2E+06	Drill Cor	2.85		0.027	0.027
1703319	Split Core		AUL-19-31	241	242	1	2E+06	Drill Cor	2.54		0.006	0.006
1703320	Split Core		AUL-19-31	247	248	1	2E+06	Drill Cor	2.56		0.029	0.029
1703321	Split Core		AUL-19-31	248	249	1	2E+06	Drill Cor	2.45		0.361	0.361
1703322	Split Core		AUL-19-31	249	250	1	2E+06	Drill Cor	2.11		1.172	1.172
1703323	Split Core		AUL-19-31	250	251	1	2E+06	Drill Cor	2.17		2.636	2.636
1703324	Split Core	DUP	AUL-19-31	251	252	1	2E+06	Drill Cor	1		4.568	4.568
1703325	1/4 Core	DUP					2E+06	Drill Cor	1.19		5.74	5.74
1703326	Split Core		AUL-19-31	252	253	1	2E+06	Drill Cor	2.14		3.513	3.513
1703327	Split Core		AUL-19-31	253	254	1	2E+06	Drill Cor	1.98		0.466	0.466
1703328	Split Core		AUL-19-31	254	255	1	2E+06	Drill Cor	2.55		2.57	2.57
1703329	Split Core		AUL-19-31	255	256	1	2E+06	Drill Cor	2.71		2.703	2.703
1703330	Split Core		AUL-19-31	256	257	1	2E+06	Drill Cor	2.37		1.043	1.043
1703331	Split Core		AUL-19-31	257	258	1	2E+06	Drill Cor	3.02		0.872	0.872
1703332	Split Core		AUL-19-31	258	259	1	2E+06	Drill Cor	2.75		0.113	0.113
1703333	Split Core		AUL-19-31	277	278	1	2E+06	Drill Cor	2.25		0.04	0.04
1703334	Split Core		AUL-19-31	278	279	1	2E+06	Drill Cor	2.09		0.115	0.115

Samples

1703335	Standard	217					2E+06	Pulp	0.1		0.335	0.335
1703336	Split Core		AUL-19-31	279	280	1	2E+06	Drill Cor	2.28		0.014	0.014
1703337	Split Core		AUL-19-31	294	295	1	2E+06	Drill Cor	2.44		0.025	0.025
1703338	Split Core		AUL-19-31	295	296	1	2E+06	Drill Cor	2.1		0.022	0.022
1703339	Split Core		AUL-19-31	296	297	1	2E+06	Drill Cor	2.2		0.015	0.015
1703340	Blank	BLANK					2E+06	Rock	0.39	<0.005		0.0025
1703341	Split Core		AUL-19-31	354	355	1	2E+06	Drill Cor	2.18		0.009	0.009
1703342	Split Core		AUL-19-31	355	356	1	2E+06	Drill Cor	1.95		0.164	0.164
1703343	Split Core		AUL-19-31	356	357	1	2E+06	Drill Cor	2.53		0.137	0.137
1703344	Split Core		AUL-19-31	357	358	1	2E+06	Drill Cor	2.69		0.127	0.127
1703345	Split Core		AUL-19-31	358	359	1	2E+06	Drill Cor	1.81		1.809	1.809
1703346	Split Core		AUL-19-31	359	360	1	2E+06	Drill Cor	2.35		2.633	2.633
1703347	Split Core		AUL-19-31	360	361	1	2E+06	Drill Cor	2.28		2.461	2.461
1703348	Split Core		AUL-19-31	361	362	1	2E+06	Drill Cor	2.57		3.108	3.108
1703349	Split Core	DUP	AUL-19-31	362	363	1	2E+06	Drill Cor	1.02		2.818	2.818
1703350	1/4 Core	DUP					2E+06	Drill Cor	1.19		6.451	6.451
1703351	Split Core		AUL-19-31	363	364	1	2E+06	Drill Cor	2.38		3.158	3.158
1703352	Split Core		AUL-19-31	364	365	1	2E+06	Drill Cor	1.97		0.655	0.655
1703353	Split Core		AUL-19-31	365	366	1	2E+06	Drill Cor	2.68		2.785	2.785
1703354	Split Core		AUL-19-31	366	367	1	2E+06	Drill Cor	2.32		1.718	1.718
1703355	Split Core		AUL-19-31	367	368	1	2E+06	Drill Cor	2.24		2.045	2.045
1703356	Split Core		AUL-19-31	368	369	1	2E+06	Drill Cor	2.16		0.951	0.951
1703357	Split Core		AUL-19-31	369	370	1	2E+06	Drill Cor	2.17		0.226	0.226
1703358	Split Core		AUL-19-31	370	371	1	2E+06	Drill Cor	2.02		0.035	0.035
1703359	Split Core		AUL-19-31	371	372	1	2E+06	Drill Cor	2.24		0.082	0.082
1703360	Standard	216					2E+06	Pulp	0.1		6.345	6.345
1703361	Split Core		AUL-19-31	372	373	1	2E+06	Drill Cor	2.42		0.092	0.092
1703362	Split Core		AUL-19-31	373	374	1	2E+06	Drill Cor	2.36		0.036	0.036
1703363	Split Core		AUL-19-31	374	375	1	2E+06	Drill Cor	2.11		0.012	0.012
1703364	Split Core		AUL-19-31	375	376	1	2E+06	Drill Cor	1.98		0.008	0.008

Header

	LOCATION (NAD83 17N)					PLANNED	
DDH ID	**XCOLLAR**	**YCOLLAR**	**ZCOLLAR**	**DEPTH**	**ROCK**	**BRG**	**DIP**
AUL-19-32	592327	5483232	283	252	201	180	-75
	Legacy	Cell					
Claim Number	3019086	311282					

Purpose	Test main zone to the east of hole AUL-18-15
Result	Intersected zone as expected, narrow high-grade intersected
Start date	2019-03-04
End date	2019-03-07
Drill Contractor	NOREX
Logged By	Scott Zelligan

Description

BHID	FROM	TO	LENGTH	LITHO	SIMPLIFIED	Comment
AUL-19-32	0	51	51	OVB	OVB	Not recovered, fragments of possible boulders/pebbles including granitic fragments
AUL-19-32	51	69	18	ARG	ARG	Foliated/banded, fine-grained dark argillite, intermittent quartz-carbonate veining/banding, hematite staining on fracture surfaces, folded banding evident
AUL-19-32	69	89	20	BLCHarg	ARG	Intermittent very light bleached argillite, white with bluish tint, mottled
AUL-19-32	89	117.1	28.1	ARG	ARG	Foliated/banded, fine-grained dark argillite, intermittent quartz-carbonate veining/banding, folded banding evident
AUL-19-32	117.1	117.75	0.65	PYfr	PYfr	30% massive/framboidal pyrite, strongly foliated, quartz-carbonate veining/banding
AUL-19-32	117.75	118.9	1.15	ARG	ARG	Foliated/banded, fine-grained dark argillite, intermittent quartz-carbonate veining/banding, folded banding evident
AUL-19-32	118.9	119.1	0.2	PYfr	PYfr	30% massive/framboidal pyrite vein/band, quartz-carbonate matrix, 20 deg tca, 4cm true width
AUL-19-32	119.1	124.25	5.15	ARG	ARG	Foliated/banded, fine-grained dark argillite, intermittent quartz-carbonate veining/banding, folded banding evident
AUL-19-32	124.25	130	5.75	BLCHarg	ARG	Intermittent very light bleached argillite, white with bluish tint, mottled
AUL-19-32	130	132.7	2.7	ARG	ARG	Foliated/banded, fine-grained dark argillite, intermittent quartz-carbonate veining/banding, folded banding evident
AUL-19-32	132.7	133.5	0.8	BLCHarg	ARG	Intermittent very light bleached argillite, white with bluish tint, mottled
AUL-19-32	133.5	138	4.5	ARG	ARG	Foliated/banded, fine-grained argillite, intermittent quartz-carbonate veining/banding, folded banding evident
AUL-19-32	138	143	5	FLThea	FLThea	Appears to be a healed fault, quartz-carbonate veinlets/infill throughout interval, possibly further interval of bleached argillite
AUL-19-32	143	164	21	ARG	ARG	Foliated/banded, fine-grained argillite, intermittent quartz-carbonate veining/banding, folded banding evident
AUL-19-32	164	171	7	FLThea	ARG	Repeating 2-3m healed faults or quartz-veined "bed"-tops.
AUL-19-32	171	178	7	ARG	ARG	Foliated/banded, fine-grained argillite, intermittent quartz-carbonate veining/banding, folded banding evident
AUL-19-32	178	178.64	0.64	FLThea	ARG	Quartz-carbonate-pyrite veining? Fault infill? Bed top?
AUL-19-32	178.64	197.5	18.86	ARG	ARG	Foliated/banded, fine-grained dark argillite, intermittent quartz-carbonate veining/banding, folded banding evident
AUL-19-32	197.5	199.1	1.6	PYfr	PYfr	Massive/framboidal pyrite, 60-80%, argillite matrix? Moderately foliated
AUL-19-32	199.1	201	1.9	FLThea	FLThea	Quartz-carbonate veining/fault-infill, partially healed, broken.
AUL-19-32	201	202.8	1.8	ARG	ARG	Foliated/banded, fine-grained dark argillite, intermittent quartz-carbonate veining/banding, folded banding evident
AUL-19-32	202.8	205	2.2	FLThea	FLThea	Massive/fault-infill quartz veining, mottled grey-white quartz veining, dark fragments.
AUL-19-32	205	206.3	1.3	MZsulf	MZMID	Quartz veining, intermittent coarse-grained pyrite veins/bands, partially replaced by arsenopyrite
AUL-19-32	206.3	208.4	2.1	QV	QV	Massive white quartz veining
AUL-19-32	208.4	211.2	2.8	MZsulf	MZHI	Quartz veining, intermittent coarse-grained pyrite veins/bands, partially replaced by arsenopyrite

Description

AUL-19-32	211.2	213.8	2.6	MZsulf	MZLOW	Quartz veining, intermittent coarse-grained pyrite veins/bands, partially replaced by arsenopyrite
AUL-19-32	213.8	215	1.2	MZfine	MZLOW	Fine-grained pyrite veinlets/disseminated medium-grained pyrite cubes, minor quartz veining
AUL-19-32	215	217.25	2.25	MZsulf	MZMID	Quartz veining, intermittent coarse-grained pyrite veins/bands, partially replaced by arsenopyrite, hosted in mottled polymictic conglomerate
AUL-19-32	217.25	220.3	3.05	QV	MZLOW	Mottled white-grey quartz veining in mottled and sericite altered polymictic conglomerate.
AUL-19-32	220.3	235	14.7	BLCHtfPC	BLCHtuff	Sericite altered, quartz-carbonate veined, bleached polymictic conglomerate with quartz-phyric tuff matrix
AUL-19-32	235	286	51	BLCHtuff	BLCHtuff	Sericite altered, quartz-carbonate veined, bleached quartz-phyric tuff
AUL-19-32	286	291	5	QPtuff	QPtuff	Banded, fine to medium-grained quartz-phyric tuff, intermittent intervals of polymictic conglomerate

Mineralization

BHID	FROM	TO	LENGTH	PY_PER	ASP_PER	TOTAL_PER	STYLE	Comments
AUL-19-32	117.1	117.75	0.65	30		30	MASS	
AUL-19-32	118.9	119.1	0.2	30		30	MASS	
AUL-19-32	197.5	199.1	1.6	60		60	MASS	
AUL-19-32	205	206.3	1.3	12	1	13	VEINS	
AUL-19-32	208.4	211.2	2.8	12	1	13	VEINS	
AUL-19-32	211.2	213.8	2.6	5	0.5	5.5	VEINS	
AUL-19-32	213.8	215	1.2	3		3	DISS	
AUL-19-32	215	217.25	2.25	4	0.5	4.5	VEINS	

Quartz-Carb

BHID	FROM	TO	LENGTH	NUMPERM	TYPE	Comment
AUL-19-32	51	89	38	3	STRINGERS	
AUL-19-32	89	117.1	28.1	5	STRINGERS	
AUL-19-32	117.1	124.25	7.15	2	STRINGERS	
AUL-19-32	124.25	132.7	8.45	1	STRINGERS	
AUL-19-32	132.7	138	5.3	3	STRINGERS	
AUL-19-32	138	143	5	1	INFILL/STRINGERS	
AUL-19-32	143	164	21	1	STRINGERS	
AUL-19-32	164	171	7	1	INFILL/MASSIVE	
AUL-19-32	171	178	7	3	STRINGERS	
AUL-19-32	178	178.64	0.64	2	INFILL/MASSIVE	
AUL-19-32	178.64	197.5	18.86	1	STRINGERS	
AUL-19-32	199.1	201	1.9	1	INFILL/MASSIVE	
AUL-19-32	201	202.8	1.8	3	STRINGERS	
AUL-19-32	202.8	206.3	3.5	10	MASSIVE/INFILL	
AUL-19-32	206.3	208.4	2.1	1	MASSIVE	
AUL-19-32	208.4	217.25	8.85	10	MASSIVE/INFILL	
AUL-19-32	217.25	220.3	3.05	5	MASSIVE	
AUL-19-32	220.3	235	14.7	1	VEINS	
AUL-19-32	235	286	51	3	STRINGERS/VEINS	
AUL-19-32	286	291	5	2	STRINGERS/VEINS	

Structure

BHID	FROM	TO	LENGTH	Deg to CA	STRUCTURE	Comment
AUL-19-32	138	143	5	30	FLThea	
AUL-19-32	199.1	201	1.9	35	FLThea	
AUL-19-32	202.8	205	2.2	45	FLThea	
AUL-19-32	205	220.3	15.3	45	FLThea	Mineralized zone

Alteration

BHID	FROM	TO	LENGTH	ALTERATION	Comments
AUL-19-32	69	89	20	BLEACH	Bleached argillite
AUL-19-32	124.25	130	5.75	BLEACH	Bleached argillite
AUL-19-32	132.7	133.5	0.8	BLEACH	Bleached argillite
AUL-19-32	205	220.3	15.3	QTZ-SER	Quartz-sericite alteration in mineralized zone
AUL-19-32	220.3	286	65.7	SERICITE	Sericite alteration in footwall tuffs

RQD

BHID	FROM	TO	LENGTH	RECOVERY	REC_PER	RQD	RQD_PER	Comments
AUL-19-32	51	54	3.00	**2.40**	80%	0.70	29%	
AUL-19-32	54	57	3.00	**2.00**	67%	1.20	60%	
AUL-19-32	57	60	3.00	**2.64**	88%	1.80	68%	
AUL-19-32	60	63	3.00	**2.88**	96%	2.10	73%	
AUL-19-32	63	66	3.00	**3.01**	100%	2.10	70%	
AUL-19-32	66	69	3.00	**2.80**	93%	1.80	64%	
AUL-19-32	69	72	3.00	**2.95**	98%	1.90	64%	
AUL-19-32	72	75	3.00	**2.24**	75%	2.24	100%	
AUL-19-32	75	78	3.00	**2.85**	95%	2.60	91%	
AUL-19-32	78	81	3.00	**2.94**	98%	2.10	71%	
AUL-19-32	81	84	3.00	**2.96**	99%	1.70	57%	
AUL-19-32	84	87	3.00	**2.81**	94%	0.90	32%	
AUL-19-32	87	90	3.00	**2.84**	95%	0.80	28%	
AUL-19-32	90	93	3.00	**2.88**	96%	1.70	59%	
AUL-19-32	93	96	3.00	**3.00**	100%	2.40	80%	
AUL-19-32	96	99	3.00	**2.95**	98%	2.60	88%	
AUL-19-32	99	102	3.00	**3.09**	103%	1.80	58%	
AUL-19-32	102	105	3.00	**3.03**	101%	1.90	63%	
AUL-19-32	105	108	3.00	**3.05**	102%	1.90	62%	
AUL-19-32	108	111	3.00	**3.11**	104%	1.40	45%	
AUL-19-32	111	114	3.00	**3.08**	103%	1.80	58%	
AUL-19-32	114	117	3.00	**2.95**	98%	2.10	71%	
AUL-19-32	117	120	3.00	**2.94**	98%	1.80	61%	
AUL-19-32	120	123	3.00	**2.81**	94%	2.10	75%	
AUL-19-32	123	126	3.00	**2.70**	90%	0.90	33%	
AUL-19-32	126	129	3.00	**3.00**	100%	1.20	40%	
AUL-19-32	129	132	3.00	**3.02**	101%	2.10	70%	
AUL-19-32	132	135	3.00	**3.02**	101%	2.30	76%	
AUL-19-32	135	138	3.00	**2.93**	98%	2.40	82%	
AUL-19-32	138	141	3.00	**2.91**	97%	2.00	69%	
AUL-19-32	141	144	3.00	**2.86**	95%	2.60	91%	
AUL-19-32	144	147	3.00	**3.12**	104%	2.70	87%	
AUL-19-32	147	150	3.00	**3.08**	103%	1.90	62%	
AUL-19-32	150	153	3.00	**2.95**	98%	1.60	54%	
AUL-19-32	153	156	3.00	**2.89**	96%	2.80	97%	
AUL-19-32	156	159	3.00	**3.13**	104%	2.80	90%	
AUL-19-32	159	162	3.00	**3.02**	101%	2.80	93%	
AUL-19-32	162	165	3.00	**3.00**	100%	2.90	97%	
AUL-19-32	165	168	3.00	**3.03**	101%	2.70	89%	
AUL-19-32	168	171	3.00	**2.92**	97%	2.80	96%	
AUL-19-32	171	174	3.00	**2.96**	99%	2.70	91%	
AUL-19-32	174	177	3.00	**3.04**	101%	2.70	89%	
AUL-19-32	177	180	3.00	**2.99**	100%	2.10	70%	
AUL-19-32	180	183	3.00	**3.08**	103%	2.40	78%	
AUL-19-32	183	186	3.00	**2.77**	92%	2.10	76%	
AUL-19-32	186	189	3.00	**2.96**	99%	1.90	64%	
AUL-19-32	189	192	3.00	**2.89**	96%	2.30	80%	
AUL-19-32	192	195	3.00	**2.96**	99%	2.40	81%	
AUL-19-32	195	198	3.00	**2.94**	98%	2.40	82%	

RQD

AUL-19-32	198	201	3.00	**2.94**	98%	1.60	54%
AUL-19-32	201	204	3.00	**3.08**	103%	2.20	71%
AUL-19-32	204	207	3.00	**2.99**	100%	2.99	100%
AUL-19-32	207	210	3.00	**2.56**	85%	1.90	74%
AUL-19-32	210	213	3.00	**3.15**	105%	3.00	95%
AUL-19-32	213	216	3.00	**3.04**	101%	2.90	95%
AUL-19-32	216	219	3.00	**2.98**	99%	2.80	94%
AUL-19-32	219	222	3.00	**2.80**	93%	2.80	100%
AUL-19-32	222	225	3.00	**3.01**	100%	2.70	90%
AUL-19-32	225	228	3.00	**3.00**	100%	2.90	97%
AUL-19-32	228	231	3.00	**3.00**	100%	3.00	100%
AUL-19-32	231	234	3.00	**3.02**	101%	3.00	99%
AUL-19-32	234	237	3.00	**2.99**	100%	2.60	87%
AUL-19-32	237	240	3.00	**3.00**	100%	3.00	100%
AUL-19-32	240	243	3.00	**3.03**	101%	2.90	96%
AUL-19-32	243	246	3.00	**2.95**	98%	2.80	95%
AUL-19-32	246	249	3.00	**3.03**	101%	2.90	96%
AUL-19-32	249	252	3.00	**2.99**	100%	2.90	97%
AUL-19-32	252	255	3.00	**2.98**	99%	2.98	100%
AUL-19-32	255	258	3.00	**2.95**	98%	2.95	100%
AUL-19-32	258	261	3.00	**3.03**	101%	3.00	99%
AUL-19-32	261	264	3.00	**2.95**	98%	2.90	98%
AUL-19-32	264	267	3.00	**3.07**	102%	2.90	95%
AUL-19-32	267	270	3.00	**2.96**	99%	2.96	100%
AUL-19-32	270	273	3.00	**2.94**	98%	2.90	99%
AUL-19-32	273	276	3.00	**2.96**	99%	2.60	88%
AUL-19-32	276	279	3.00	**2.95**	98%	2.00	68%
AUL-19-32	279	282	3.00	**2.97**	99%	2.30	77%
AUL-19-32	282	285	3.00	**2.94**	98%	2.40	82%
AUL-19-32	285	288	3.00	**2.94**	98%	2.90	99%
AUL-19-32	288	291	3.00	**2.88**	96%	2.88	100%
			240.00	234.41	98%	185.50	79%

Survey

BHID	AT	BRG	DIP	Mag Field	Meas Azi	Use Az	Use Dip	Device	Comments
AUL-19-32	66.0	179.7	-75.6	5707	192.7	Yes	Yes	Reflex EZ-Shot	
AUL-19-32	117.0	172.6	-75.6	5644	185.6	Yes	Yes	Reflex EZ-Shot	
AUL-19-32	168	177.9	-75.2	5596	190.9	Yes	Yes	Reflex EZ-Shot	
AUL-19-32	219	178.2	-75.1	5578	191.2	Yes	Yes	Reflex EZ-Shot	
AUL-19-32	270	179.8	-75.3	5558	192.8	Yes	Yes	Reflex EZ-Shot	

Samples

Sample Number	Type	QAQC	BHID	FROM	TO	LENGTH			SAMPLE WEIGHT	Au PPM (FA430) - Lab	Au GMT	Au Final
1703772	Split Core		AUL-19-32	115	116	1	1703772	Drill Core	2.48		0.022	0.022
1703773	Split Core		AUL-19-32	116	117	1	1703773	Drill Core	2.02		0.024	0.024
1703774	Split Core	DUP	AUL-19-32	117	118	1	1703774	Drill Core	1		0.056	0.056
1703775	1/4 Core	DUP					1703775	Drill Core	1.24		0.054	0.054
1703776	Split Core		AUL-19-32	118	118.75	0.75	1703776	Drill Core	1.63		0.033	0.033
1703777	Split Core		AUL-19-32	118.75	119.25	0.5	1703777	Drill Core	1.17		0.084	0.084
1703778	Split Core		AUL-19-32	119.25	120	0.75	1703778	Drill Core	1.89		0.038	0.038
1703779	Split Core		AUL-19-32	120	121	1	1703779	Drill Core	2.2		0.013	0.013
1703780	Split Core		AUL-19-32	121	122	1	1703780	Drill Core	2.46		0.009	0.009
1703365	Split Core		AUL-19-32	153	154	1	1703365	Drill Core	2.2	<0.005		0.0025
1703366	Split Core		AUL-19-32	154	155	1	1703366	Drill Core	2.33	<0.005		0.0025
1703367	Split Core		AUL-19-32	155	156	1	1703367	Drill Core	1.73	<0.005		0.0025
1703368	Split Core		AUL-19-32	165	166	1	1703368	Drill Core	2.16	<0.005		0.0025
1703369	Split Core		AUL-19-32	166	166.4	0.4	1703369	Drill Core	0.81		0.006	0.006
1703370	Split Core		AUL-19-32	166.4	167	0.6	1703370	Drill Core	1.41		0.009	0.009
1703371	Split Core		AUL-19-32	167	168	1	1703371	Drill Core	2.62		0.009	0.009
1703372	Split Core		AUL-19-32	168	169	1	1703372	Drill Core	2.47		0.016	0.016
1703373	Split Core		AUL-19-32	169	169.65	0.65	1703373	Drill Core	1.56		0.006	0.006
1703374	Split Core	DUP	AUL-19-32	169.65	170.5	0.85	1703374	Drill Core	0.59		0.009	0.009
1703375	1/4 Core	DUP					1703375	Drill Core	0.56		0.009	0.009
1703376	Split Core		AUL-19-32	170.5	171.5	1	1703376	Drill Core	1.97		0.016	0.016
1703377	Split Core		AUL-19-32	171.5	172.5	1	1703377	Drill Core	2.52		0.02	0.02
1703378	Split Core		AUL-19-32	172.5	173.5	1	1703378	Drill Core	2.06		0.015	0.015
1703379	Split Core		AUL-19-32	173.5	174.9	1.4	1703379	Drill Core	2.96		0.046	0.046
1703380	Split Core		AUL-19-32	174.9	175.1	0.2	1703380	Drill Core	0.77		0.051	0.051
1703381	Split Core		AUL-19-32	175.1	176	0.9	1703381	Drill Core	1.88		0.075	0.075
1703382	Split Core		AUL-19-32	176	177	1	1703382	Drill Core	2.31		0.052	0.052
1703383	Split Core		AUL-19-32	177	177.95	0.95	1703383	Drill Core	2.2		0.065	0.065
1703384	Split Core		AUL-19-32	177.95	178.64	0.69	1703384	Drill Core	1.59		0.156	0.156
1703385	Standard	217					1703385	Pulp	0.1		0.331	0.331
1703386	Split Core		AUL-19-32	178.64	179.5	0.86	1703386	Drill Core	2.09		0.041	0.041
1703387	Split Core		AUL-19-32	192	193	1	1703387	Drill Core	2.11		0.008	0.008
1703388	Split Core		AUL-19-32	193	194	1	1703388	Drill Core	1.95		0.024	0.024

Samples

1703389	Split Core		AUL-19-32	194	195	1	1703389	Drill Core	2.09		0.03	0.03
1703390	Blank	BLANK					1703390	Rock	0.45	<0.005		0.0025
1703391	Split Core		AUL-19-32	195	196	1	1703391	Drill Core	2.19		0.057	0.057
1703392	Split Core		AUL-19-32	196	197	1	1703392	Drill Core	2.28		0.064	0.064
1703393	Split Core		AUL-19-32	197	197.5	0.5	1703393	Drill Core	1.29		0.073	0.073
1703394	Split Core		AUL-19-32	197.5	198.5	1	1703394	Drill Core	2.82		0.37	0.37
1703395	Split Core		AUL-19-32	198.5	199.1	0.6	1703395	Drill Core	1.99		0.377	0.377
1703396	Split Core		AUL-19-32	199.1	200	0.9	1703396	Drill Core	2.38		0.033	0.033
1703397	Split Core		AUL-19-32	200	201	1	1703397	Drill Core	1.69		0.028	0.028
1703398	Split Core		AUL-19-32	201	202	1	1703398	Drill Core	2.19		0.032	0.032
1703399	Split Core	DUP	AUL-19-32	202	202.75	0.75	1703399	Drill Core	0.76		0.052	0.052
1703400	1/4 Core	DUP					1703400	Drill Core	0.74		0.059	0.059
1703401	Split Core		AUL-19-32	202.75	203.75	1	1703401	Drill Core	2.23		0.024	0.024
1703402	Split Core		AUL-19-32	203.75	205	1.25	1703402	Drill Core	2.71		0.06	0.06
1703403	Split Core		AUL-19-32	205	205.5	0.5	1703403	Drill Core	1.4		2.12	2.12
1703404	Split Core		AUL-19-32	205.5	206.4	0.9	1703404	Drill Core	2.22		2.026	2.026
1703405	Split Core		AUL-19-32	206.4	207.4	1	1703405	Drill Core	2.28		0.011	0.011
1703406	Split Core		AUL-19-32	207.4	208.3	0.9	1703406	Drill Core	1.93		0.058	0.058
1703407	Split Core		AUL-19-32	208.3	209.4	1.1	1703407	Drill Core	2.92		9.265	9.265
1703408	Split Core		AUL-19-32	209.4	210.3	0.9	1703408	Drill Core	2.27		4.177	4.177
1703409	Split Core		AUL-19-32	210.3	211.2	0.9	1703409	Drill Core	2.41		4.915	4.915
1703410	Standard	216					1703410	Rock	0.24	<0.005		0.0025
1703411	Split Core		AUL-19-32	211.2	211.8	0.6	1703411	Drill Core	1.26		0.53	0.53
1703412	Split Core		AUL-19-32	211.8	212.5	0.7	1703412	Drill Core	1.55		1.462	1.462
1703413	Split Core		AUL-19-32	212.5	213.5	1	1703413	Drill Core	2.83		1.988	1.988
1703414	Split Core		AUL-19-32	213.5	214.5	1	1703414	Drill Core	2.66		1.104	1.104
1703415	Split Core		AUL-19-32	214.5	215.3	0.8	1703415	Drill Core	1.64		0.685	0.685
1703416	Split Core		AUL-19-32	215.3	215.85	0.55	1703416	Drill Core	0.86		5.9	5.9
1703417	Split Core		AUL-19-32	215.85	217	1.15	1703417	Drill Core	3.39		1.84	1.84
1703418	Split Core		AUL-19-32	217	218	1	1703418	Drill Core	2.22		0.46	0.46
1703419	Split Core		AUL-19-32	218	219	1	1703419	Drill Core	2.27		0.302	0.302
1703420	Split Core		AUL-19-32	219	220	1	1703420	Drill Core	2.35		0.404	0.404
1703421	Split Core		AUL-19-32	220	220.85	0.85	1703421	Drill Core	1.88		0.364	0.364
1703422	Split Core		AUL-19-32	220.85	222	1.15	1703422	Drill Core	2.72		0.43	0.43

Samples

1703423	Split Core		AUL-19-32	222	222.5	0.5	1703423	Drill Core	1.09	0.195	0.195
1703424	Split Core	DUP	AUL-19-32	222.5	223.5	1	1703424	Drill Core	1	0.099	0.099
1703425	1/4 Core	DUP					1703425	Drill Core	1.05	0.122	0.122
1703426	Split Core		AUL-19-32	223.5	224	0.5	1703426	Drill Core	1.16	0.088	0.088
1703427	Split Core		AUL-19-32	224	225	1	1703427	Drill Core	2.43	0.061	0.061
1703428	Split Core		AUL-19-32	225	226	1	1703428	Drill Core	2.42	0.051	0.051

Header

	LOCATION (NAD83 17N)					PLANNED	
DDH ID	**XCOLLAR**	**YCOLLAR**	**ZCOLLAR**	**DEPTH**	**ROCK**	**BRG**	**DIP**
AUL-19-33	592336	5483330	283	552	494	180	-70
	Legacy	Cell					
Claim Number	3019086	237535 (Collar), 311282					

Purpose	To further test the down-dip extension of the main zone, below and to the east of AUL-19-31
Result	Intersected the zone, sulphides and quartz mineralization slightly more discontinuous, and no high-grade, however, zone still intersected as expected.
Start date	2019-03-07
End date	2019-03-12
Drill Contractor	NOREX
Logged By	Scott Zelligan

Description

BHID	FROM	TO	LENGTH	LITHO	SIMPLIFIED	Comment
AUL-19-33	0	58	58	OVB	OVB	Not recovered
AUL-19-33	58	61.5	3.5	IF	IF	Mix of banded argillite and altered iron formation.
AUL-19-33	61.5	87	25.5	ARG	ARG	Mostly fine-grained banded argillite, intermittent quartz stringers, intermittent bed "tops" with increased evidence of folding (wavy and deformed beds) increased quartz stringers and veins.
AUL-19-33	87	101.7	14.7	ARGfe	ARG	dark grey, banded, intermittent lighter bands, intermittent qtz-carb stringers, intermittent minor bands of IF. Mottled with sericite and silica alteration
AUL-19-33	101.7	103.2	1.5	IF	IF	Intermittent banded (dark and light) IF, strongly altered, intermingled with argillite layers
AUL-19-33	103.2	104.6	1.4	ARGfe	ARG	dark grey, banded, intermittent lighter bands, intermittent qtz-carb stringers, intermittent minor bands of IF. Mottled with sericite and silica alteration
AUL-19-33	104.6	106	1.4	IF	IF	Intermittent banded (dark and light) IF, strongly altered, intermingled with argillite layers
AUL-19-33	106	107.5	1.5	ARG	ARG	Banded fine-grained argillite with quartz stringers
AUL-19-33	107.5	108.25	0.75	QV	QV	Banded 5-10cm veins of quartz-sericite? 35-45 dtca
AUL-19-33	108.25	134.2	25.95	ARGfe	ARG	dark grey, banded, intermittent lighter bands, intermittent qtz-carb stringers, intermittent minor bands of IF. Mottled with sericite and silica alteration
AUL-19-33	134.2	136	1.8	IF	IF	Intermittent banded (dark and light) IF, strongly altered, intermingled with argillite layers
AUL-19-33	136	138.4	2.4	ARGfe	ARG	dark grey, banded, intermittent lighter bands, intermittent qtz-carb stringers, intermittent minor bands of IF. Mottled with sericite and silica alteration
AUL-19-33	138.4	144.25	5.85	ARG	ARG	Banded fine-grained argillite, abundant quartz stringers
AUL-19-33	144.25	147.5	3.25	IF	IF	Intermittent banded (dark and light) IF, strongly altered, intermingled with argillite layers
AUL-19-33	147.5	148.15	0.65	ARGfe	ARG	Mottled bleached contact between argillite and IF
AUL-19-33	148.15	149	0.85	FLTbroke	FLTbroke	Broken, no saprolitic alteration, argillite and iron formation fragments, no gouge
AUL-19-33	149	153	4	ARG	ARG	Strongly banded, frequent quartz-carbonate stringers parallel to banding.
AUL-19-33	153	163.5	10.5	BLCHarg	ARG	Intermittent mostly light-coloured argillite, strongly banded, dark grey bands interbeeded with light greenish-beige bands.
AUL-19-33	163.5	165.5	2	ARG	ARG	Strongly banded, frequent quartz-carbonate stringers parallel to banding.
AUL-19-33	165.5	168	2.5	IF	IF	Intermittent banded (dark and light) IF, strongly altered, intermingled with argillite layers
AUL-19-33	168	171	3	ARG	ARG	Weakly banded, fine-grained and massive textures intermingled, intermittent quartz veins and disseminated coarse-grained cubic pyrite
AUL-19-33	171	172.3	1.3	BLCHarg	ARG	Intermittent mostly light-coloured argillite, strongly banded, dark grey bands interbeeded with light greenish-beige bands.
AUL-19-33	172.3	192.6	20.3	IF	IF	Intermittent banded (dark and light) IF, strongly altered, intermingled with argillite layers, occasional massive pyrite layers (~2-3cm)
AUL-19-33	192.6	218.2	25.6	ARG	ARG	Mostly fine-grained banded argillite, intermittent quartz stringers, intermittent bed "tops" with increased evidence of folding (wavy and deformed beds) increased quartz stringers and veins.
AUL-19-33	218.2	218.3	0.1	MS	MS	semi-massive pyrite, vuggy

						Description
AUL-19-33	218.3	221.3	3	ARG	ARG	Mostly fine-grained banded argillite, intermittent quartz stringers, intermittent bed "tops" with increased evidence of folding (wavy and deformed beds) increased quartz stringers and veins.
AUL-19-33	221.3	222.4	1.1	FLThea	FLThea	Quartz-carbonate veining infill of fractured and healed argillite
AUL-19-33	222.4	230.5	8.1	MZsulf	MZLOW	Mottled quartz veining with intermittent disseminated and patchy pyrite, minor arsenopyrite.
AUL-19-33	230.5	234.75	4.25	MZsulf	MZMID	Mottled quartz veining with intermittent disseminated and patchy pyrite, minor arsenopyrite.
AUL-19-33	234.75	255.5	20.75	QPtuff	QPtuff	Fine-grained banded/foliated quartz-phyric tuff with frequent thought intermittent quartz-carbonate veining
AUL-19-33	255.5	337.8	82.3	ARG	ARG	strongly banded and altered, intermittent qtz-carb stringers
AUL-19-33	337.8	339.5	1.7	PYfr	PYfr	intermittent pyrite layers, some framboidal pyrite, 5% in argillite
AUL-19-33	339.5	343.5	4	ARG	ARG	strongly banded and altered, intermittent qtz-carb stringers
AUL-19-33	343.5	345	1.5	PYfr	PYfr	intermittent pyrite layers, some framboidal pyrite, 10% in argillite
AUL-19-33	345	348.9	3.9	ARG	ARG	strongly banded and altered, intermittent qtz-carb stringers
AUL-19-33	348.9	351.5	2.6	PYfr	PYfr	intermittent pyrite layers, some framboidal pyrite, 15% in argillite
AUL-19-33	351.5	373	21.5	ARG	ARG	massive-textured, fine-grained, minor qtz-carb stringers
AUL-19-33	373	382	9	BLCHtuff	MZLOW	Bleached footwall unit (conglomerate or tuffaceous unit?) intermittent white quartz veining
AUL-19-33	382	384	2	MZsulf	MZMID	Mineralized Zone - Massive quartz veining with multiple quartz and sulphide textures, including cubic pyrite (with arseno replacement), and fine grained pyrite with replacement. Some small intervals of white quartz but mostly grey quartz with chlorite? ribboning.
AUL-19-33	384	393.2	9.2	BLCHtuff	MZLOW	Bleached footwall unit (conglomerate or tuffaceous unit?) intermittent white quartz veining
AUL-19-33	393.2	394.4	1.2	MZsulf	MZMID	Mineralized Zone - Massive quartz veining with multiple quartz and sulphide textures, including cubic pyrite (with arseno replacement), and fine grained pyrite with replacement. Some small intervals of white quartz but mostly grey quartz with chlorite? ribboning.
AUL-19-33	394.4	399.9	5.5	BLCHtuff	MZLOW	Bleached footwall unit (conglomerate or tuffaceous unit?) intermittent white quartz veining
AUL-19-33	399.9	406.9	7	MZsulf	MZMID	Mineralized Zone - Massive quartz veining with multiple quartz and sulphide textures, including cubic pyrite (with arseno replacement), and fine grained pyrite with replacement. Some small intervals of white quartz but mostly grey quartz with chlorite? ribboning.
AUL-19-33	406.9	411.8	4.9	BLCHtuff	BLCHtuff	Bleached footwall unit (conglomerate or tuffaceous unit?) intermittent white quartz veining
AUL-19-33	411.8	427	15.2	QPtuff	QPtuff	Fine-grained quartz-phyric weakly foliated/banded with weak intermittent sericite alteration.
AUL-19-33	427	491.3	64.3	QPtuffPC	QPtuff	Polymictic conglomerate with fine-grained quartz-phyric tuffaceous matrix. Clasts are intermittently elongated.
AUL-19-33	491.3	502.3	11	QPtuff	QPtuff	Banded, fine to medium-grained quartz-phyric tuff.
AUL-19-33	502.3	552	49.7	QPtuff	QPtuff	Banded, fine to medium-grained quartz-phyric tuff, intermittent quartz veinlets.

Mineralization

BHID	FROM	TO	LENGTH	PY_PER	ASP_PER	TOTAL_PER	STYLE	Comments
AUL-19-33	218.2	218.3	0.1	30		30	MASS	
AUL-19-33	222.4	230.5	8.1	2	0.1	2.1	VEIN/DISS	
AUL-19-33	230.5	234.75	4.25	3	0.1	3.1	VEIN/DISS	
AUL-19-33	337.8	339.5	1.7	5		5	BANDS	
AUL-19-33	343.5	345	1.5	10		10	BANDS	
AUL-19-33	348.9	351.5	2.6	15		15	BANDS	
AUL-19-33	373	382	9	2		2	PATCHY	
AUL-19-33	382	384	2	3		3	PATCHY	
AUL-19-33	384	393.2	9.2	2		2	PATCHY	
AUL-19-33	393.2	394.4	1.2	5		5	DISS	
AUL-19-33	394.4	399.9	5.5	2		2	PATCHY	
AUL-19-33	399.9	406.9	7	5	0.5	5.5	PATCHY	

Quartz-Carb

BHID	FROM	TO	LENGTH	NUMPERM	TYPE	Comment
AUL-19-33	61.5	87	25.5	5	VEINLETS	
AUL-19-33	87	101.7	14.7	5	VEINLETS	
AUL-19-33	101.7	103.2	1.5	3	VEINLETS	
AUL-19-33	103.2	104.6	1.4	1	VEINLETS	
AUL-19-33	104.6	106	1.4	1	VEINLETS	
AUL-19-33	106	107.5	1.5	2	VEINLETS	
AUL-19-33	107.5	108.25	0.75	3	MASS	
AUL-19-33	108.25	192.6	84.35	5	VEINLETS	
AUL-19-33	192.6	195.5	2.9	1	MASS	Boudinaged veins
AUL-19-33	195.5	373	177.5	3	VEINLETS	
AUL-19-33	373	406.9	33.9	5	MASS/VEINS	Mineralized zone, intermittent massive quartz flooding and veins with sulphides
AUL-19-33	426.8	427.8	1	1	VEIN	Boudinaged quartz vein, low angle to core axis
AUL-19-33	500	550	50	2	VEINLETS	

Structure

BHID	FROM	TO	LENGTH	Deg to CA	STRUCTURE	Comment
AUL-19-33	61.2	63.8	2.6		Broken	
AUL-19-33	148.15	149	0.85		FLTbroke	
AUL-19-33	164.25	165.7	1.45		Broken	
AUL-19-33	221.3	222.4	1.1		FLThea	
AUL-19-33	234.3	239	4.7		Fracture	
AUL-19-33	365.3	366	0.7		Broken	
AUL-19-33	382	406.9	24.9		FLThea	

Alteration

BHID	FROM	TO	LENGTH	ALTERATION	Comments
AUL-19-33	58	138.4	80.4	SILICA-SERICITE	
AUL-19-33	147.5	148.15	0.65	BLEACHED	Mottled bleached contact between argillite and IF
AUL-19-33	153	163.5	10.5	BLEACHED	Intermittently bleached argillite
AUL-19-33	171	172.3	1.3	BLEACHED	Intermittently bleached argillite
AUL-19-33	222.4	234.75	12.35	SILICA-SERICITE	
AUL-19-33	373	406.9	33.9	SILICA-SERICITE	Bleached fw unit intermingled with Sericite-Silica altered main zone
AUL-19-33	406.9	411.8	4.9	SERICITE	Bleached fw unit

RQD

BHID	FROM	TO	LENGTH	RECOVERY	REC_PER	RQD	RQD_PER	Comments
AUL-19-33	60	63	3.00	**2.28**	76%	0.20	9%	
AUL-19-33	63	66	3.00	**1.37**	46%	0.40	29%	
AUL-19-33	66	69	3.00	**3.09**	103%	1.80	58%	
AUL-19-33	69	72	3.00	**2.91**	97%	1.60	55%	
AUL-19-33	72	75	3.00	**2.82**	94%	0.90	32%	
AUL-19-33	75	78	3.00	**2.77**	92%	0.70	25%	
AUL-19-33	78	81	3.00	**2.93**	98%	1.40	48%	
AUL-19-33	81	84	3.00	**2.89**	96%	1.00	35%	
AUL-19-33	84	87	3.00	**2.98**	99%	1.60	54%	
AUL-19-33	87	90	3.00	**2.97**	99%	1.10	37%	
AUL-19-33	90	93	3.00	**2.81**	94%	1.10	39%	
AUL-19-33	93	96	3.00	**3.02**	101%	0.80	26%	
AUL-19-33	96	99	3.00	**2.96**	99%	1.40	47%	
AUL-19-33	99	102	3.00	**2.84**	95%	1.30	46%	
AUL-19-33	102	105	3.00	**2.96**	99%	0.80	27%	
AUL-19-33	105	108	3.00	**3.05**	102%	1.70	56%	
AUL-19-33	108	111	3.00	**3.06**	102%	1.70	56%	
AUL-19-33	111	114	3.00	**2.83**	94%	2.70	95%	
AUL-19-33	114	117	3.00	**3.00**	100%	2.70	90%	
AUL-19-33	117	120	3.00	**2.82**	94%	2.70	96%	
AUL-19-33	120	123	3.00	**3.11**	104%	2.80	90%	
AUL-19-33	123	126	3.00	**2.77**	92%	2.40	87%	
AUL-19-33	126	129	3.00	**2.82**	94%	2.50	89%	
AUL-19-33	129	132	3.00	**3.04**	101%	1.80	59%	
AUL-19-33	132	135	3.00	**2.97**	99%	2.80	94%	
AUL-19-33	135	138	3.00	**2.97**	99%	2.70	91%	
AUL-19-33	138	141	3.00	**3.07**	102%	2.80	91%	
AUL-19-33	141	144	3.00	**2.99**	100%	2.60	87%	
AUL-19-33	144	147	3.00	**2.86**	95%	2.60	91%	
AUL-19-33	147	150	3.00	**2.98**	99%	2.40	81%	
AUL-19-33	150	153	3.00	**2.74**	91%	2.50	91%	
AUL-19-33	153	156	3.00	**2.99**	100%	1.20	40%	
AUL-19-33	156	159	3.00	**2.90**	97%	2.50	86%	
AUL-19-33	159	162	3.00	**2.88**	96%	2.30	80%	
AUL-19-33	162	165	3.00	**2.86**	95%	1.20	42%	
AUL-19-33	165	168	3.00	**2.95**	98%	0.30	10%	
AUL-19-33	168	171	3.00	**2.64**	88%	0.30	11%	
AUL-19-33	171	174	3.00	**2.73**	91%	0.80	29%	
AUL-19-33	174	177	3.00	**2.95**	98%	2.30	78%	
AUL-19-33	177	180	3.00	**2.94**	98%	2.40	82%	
AUL-19-33	180	183	3.00	**2.62**	87%	1.10	42%	
AUL-19-33	183	186	3.00	**2.94**	98%	2.10	71%	
AUL-19-33	186	189	3.00	**2.96**	99%	1.60	54%	
AUL-19-33	189	192	3.00	**3.04**	101%	2.50	82%	
AUL-19-33	192	195	3.00	**2.95**	98%	2.80	95%	
AUL-19-33	195	198	3.00	**2.95**	98%	2.40	81%	
AUL-19-33	198	201	3.00	**3.00**	100%	2.70	90%	
AUL-19-33	201	204	3.00	**3.10**	103%	2.60	84%	
AUL-19-33	204	207	3.00	**3.10**	103%	2.80	90%	

RQD

AUL-19-33	207	210	3.00	**2.98**	99%	2.50	84%
AUL-19-33	210	213	3.00	**3.00**	100%	2.80	93%
AUL-19-33	213	216	3.00	**2.94**	98%	2.80	95%
AUL-19-33	216	219	3.00	**2.92**	97%	2.30	79%
AUL-19-33	219	222	3.00	**3.00**	100%	2.50	83%
AUL-19-33	222	225	3.00	**3.03**	101%	1.90	63%
AUL-19-33	225	228	3.00	**2.73**	91%	0.40	15%
AUL-19-33	228	231	3.00	**3.00**	100%	0.40	13%
AUL-19-33	231	234	3.00	**2.78**	93%	0.50	18%
AUL-19-33	234	237	3.00	**2.11**	70%	0.80	38%
AUL-19-33	237	240	3.00	**2.86**	95%	0.40	14%
AUL-19-33	240	243	3.00	**2.93**	98%	1.40	48%
AUL-19-33	243	246	3.00	**2.95**	98%	1.70	58%
AUL-19-33	246	249	3.00	**2.92**	97%	2.10	72%
AUL-19-33	249	252	3.00	**3.02**	101%	2.70	90%
AUL-19-33	252	255	3.00	**3.01**	100%	2.70	90%
AUL-19-33	255	258	3.00	**2.91**	97%	2.80	96%
AUL-19-33	258	261	3.00	**2.93**	98%	2.50	85%
AUL-19-33	261	264	3.00	**3.02**	101%	2.60	86%
AUL-19-33	264	267	3.00	**2.93**	98%	2.70	92%
AUL-19-33	267	270	3.00	**2.97**	99%	2.70	91%
AUL-19-33	270	273	3.00	**2.99**	100%	2.80	94%
AUL-19-33	273	276	3.00	**2.93**	98%	2.80	95%
AUL-19-33	276	279	3.00	**3.09**	103%	2.80	91%
AUL-19-33	279	282	3.00	**2.97**	99%	2.97	100%
AUL-19-33	282	285	3.00	**2.95**	98%	2.90	98%
AUL-19-33	285	288	3.00	**3.03**	101%	2.90	96%
AUL-19-33	288	291	3.00	**3.00**	100%	2.50	83%
AUL-19-33	291	294	3.00	**2.93**	98%	2.90	99%
AUL-19-33	294	297	3.00	**2.93**	98%	2.50	85%
AUL-19-33	297	300	3.00	**2.91**	97%	2.80	96%
AUL-19-33	300	303	3.00	**2.94**	98%	2.90	98%
AUL-19-33	303	306	3.00	**2.98**	99%	2.80	94%
AUL-19-33	306	309	3.00	**3.09**	103%	3.00	97%
AUL-19-33	309	312	3.00	**2.90**	97%	2.90	100%
AUL-19-33	312	315	3.00	**2.86**	95%	2.86	100%
AUL-19-33	315	318	3.00	**2.95**	98%	2.80	95%
AUL-19-33	318	321	3.00	**3.04**	101%	2.90	95%
AUL-19-33	321	324	3.00	**2.96**	99%	2.50	85%
AUL-19-33	324	327	3.00	**2.97**	99%	2.90	98%
AUL-19-33	327	330	3.00	**2.99**	100%	2.90	97%
AUL-19-33	330	333	3.00	**3.09**	103%	2.90	94%
AUL-19-33	333	336	3.00	**2.99**	100%	2.90	97%
AUL-19-33	336	339	3.00	**3.04**	101%	2.60	86%
AUL-19-33	339	342	3.00	**2.98**	99%	2.50	84%
AUL-19-33	342	345	3.00	**2.94**	98%	2.70	92%
AUL-19-33	345	348	3.00	**2.96**	99%	2.70	91%
AUL-19-33	348	351	3.00	**2.97**	99%	2.80	94%
AUL-19-33	351	354	3.00	**3.05**	102%	2.80	92%
AUL-19-33	354	357	3.00	**2.91**	97%	2.80	96%

RQD

AUL-19-33	357	360	3.00	**3.13**	104%	2.94	94%
AUL-19-33	360	363	3.00	**3.00**	100%	2.86	95%
AUL-19-33	363	366	3.00	**2.42**	81%	2.09	86%
AUL-19-33	366	369	3.00	**2.83**	94%	1.94	68%
AUL-19-33	369	372	3.00	**3.02**	101%	2.62	87%
AUL-19-33	372	375	3.00	**3.04**	101%	2.63	87%
AUL-19-33	375	378	3.00	**2.96**	99%	2.87	97%
AUL-19-33	378	381	3.00	**2.95**	98%	2.95	100%
AUL-19-33	381	384	3.00	**2.90**	97%	2.90	100%
AUL-19-33	384	387	3.00	**3.13**	104%	1.86	59%
AUL-19-33	387	390	3.00	**3.03**	101%	3.03	100%
AUL-19-33	390	393	3.00	**3.09**	103%	1.69	55%
AUL-19-33	393	396	3.00	**2.91**	97%	2.68	92%
AUL-19-33	396	399	3.00	**3.00**	100%	1.79	60%
AUL-19-33	399	402	3.00	**3.01**	100%	1.93	64%
AUL-19-33	402	405	3.00	**3.00**	100%	2.57	86%
AUL-19-33	405	408	3.00	**3.00**	100%	3.00	100%
AUL-19-33	408	411	3.00	**3.02**	101%	3.02	100%
AUL-19-33	411	414	3.00	**3.02**	101%	2.87	95%
AUL-19-33	414	417	3.00	**2.95**	98%	2.95	100%
AUL-19-33	417	420	3.00	**2.89**	96%	2.68	93%
AUL-19-33	420	423	3.00	**3.05**	102%	2.26	74%
AUL-19-33	423	426	3.00	**2.99**	100%	2.99	100%
AUL-19-33	426	429	3.00	**2.95**	98%	2.75	93%
AUL-19-33	429	432	3.00	**2.97**	99%	2.77	93%
AUL-19-33	432	435	3.00	**2.92**	97%	2.86	98%
AUL-19-33	435	438	3.00	**2.97**	99%	2.90	98%
AUL-19-33	438	441	3.00	**2.94**	98%	2.77	94%
AUL-19-33	441	444	3.00	**2.84**	95%	2.71	95%
AUL-19-33	444	447	3.00	**2.75**	92%	2.68	97%
AUL-19-33	447	450	3.00	**3.00**	100%	2.68	89%
AUL-19-33	450	453	3.00	**3.02**	101%	2.77	92%
AUL-19-33	453	456	3.00	**3.04**	101%	2.42	80%
AUL-19-33	456	459	3.00	**3.01**	100%	2.95	98%
AUL-19-33	459	462	3.00	**3.02**	101%	2.95	98%
AUL-19-33	462	465	3.00	**2.98**	99%	2.98	100%
AUL-19-33	465	468	3.00	**3.01**	100%	3.01	100%
AUL-19-33	468	471	3.00	**2.93**	98%	2.93	100%
AUL-19-33	471	474	3.00	**3.00**	100%	3.00	100%
AUL-19-33	474	477	3.00	**3.05**	102%	3.05	100%
AUL-19-33	477	480	3.00	**3.16**	105%	3.16	100%
AUL-19-33	480	483	3.00	**3.00**	100%	3.00	100%
AUL-19-33	483	486	3.00	**3.03**	101%	2.95	97%
AUL-19-33	486	489	3.00	**2.97**	99%	2.87	97%
AUL-19-33	489	492	3.00	**2.97**	99%	2.67	90%
AUL-19-33	492	495	3.00	**2.98**	99%	2.93	98%
AUL-19-33	495	498	3.00	**3.05**	102%	2.95	97%
AUL-19-33	498	501	3.00	**2.90**	97%	2.33	80%
AUL-19-33	501	504	3.00	**2.90**	97%	2.90	100%
AUL-19-33	504	507	3.00	**2.99**	100%	2.92	98%

RQD

AUL-19-33	507	510	3.00	**3.01**	100%	3.01	100%
AUL-19-33	510	513	3.00	**3.05**	102%	2.96	97%
AUL-19-33	513	516	3.00	**2.96**	99%	2.96	100%
AUL-19-33	516	519	3.00	**2.94**	98%	2.82	96%
AUL-19-33	519	522	3.00	**3.06**	102%	2.78	91%
AUL-19-33	522	525	3.00	**3.00**	100%	2.95	98%
AUL-19-33	525	528	3.00	**2.98**	99%	2.84	95%
AUL-19-33	528	531	3.00	**2.92**	97%	2.88	98%
AUL-19-33	531	534	3.00	**3.01**	100%	1.87	62%
AUL-19-33	534	537	3.00	**2.99**	100%	2.83	95%
AUL-19-33	537	540	3.00	**2.78**	93%	2.71	97%
AUL-19-33	540	543	3.00	**3.09**	103%	2.45	79%
AUL-19-33	543	546	3.00	**3.08**	103%	3.02	98%
AUL-19-33	546	549	3.00	**3.06**	102%	2.80	92%
AUL-19-33	549	552	3.00	**3.00**	100%	3.00	100%
			492.00	482.07	98%	389.50	81%

Survey

BHID	AT	BRG	DIP	Mag Field	Meas Azi	Use Az	Use Dip	Device	Comments
AUL-19-33	78.0	179.3	-71.7	5785	192.3	Yes	Yes	Reflex EZ-Shot	
AUL-19-33	129.0	174.0	-71.1	5693	187	Yes	Yes	Reflex EZ-Shot	
AUL-19-33	180	169.3	-69.7	5705	182.3	Yes	Yes	Reflex EZ-Shot	
AUL-19-33	231	178.9	-68.3	5634	191.9	Yes	Yes	Reflex EZ-Shot	
AUL-19-33	288	177.1	-68.7	5636	190.1	Yes	Yes	Reflex EZ-Shot	
AUL-19-33	339	180.7	-68.5	5573	193.7	Yes	Yes	Reflex EZ-Shot	
AUL-19-33	390	180.3	-68.6	5622	193.3	Yes	Yes	Reflex EZ-Shot	
AUL-19-33	441	182.5	-68.1	5516	195.5	Yes	Yes	Reflex EZ-Shot	
AUL-19-33	501	190.4	-66.7	5501	203.4	Yes	Yes	Reflex EZ-Shot	
AUL-19-33	552	195.7	-61.2	5522	208.7	Yes	Yes	Reflex EZ-Shot	

Samples

Sample Number	Type	QAQC	BHID	FROM	TO	LENGTH			SAMPLE WEIGHT	Au PPM (FA430) - Lab	Au GMT	Au Final
1648176	Split Core		AUL-19-33	184	185	1	1648176	Drill Core	2.06		0.007	0.007
1648177	Split Core		AUL-19-33	185	186	1	1648177	Drill Core	1.61	<0.005		0.0025
1648178	Split Core		AUL-19-33	186	186.7	0.7	1648178	Drill Core	1.87	<0.005		0.0025
1648179	Split Core		AUL-19-33	186.7	188	1.3	1648179	Drill Core	1.56	<0.005		0.0025
1703429	Split Core		AUL-19-33	188	189	1	1703429	Drill Core	2.4		0.023	0.023
1703430	Split Core		AUL-19-33	189	190	1	1703430	Drill Core	2.25	<0.005		0.0025
1703431	Split Core		AUL-19-33	190	190.7	0.7	1703431	Drill Core	1.34	<0.005		0.0025
1703432	Split Core		AUL-19-33	190.7	190.9	0.2	1703432	Drill Core	0.87		0.038	0.038
1703433	Split Core		AUL-19-33	190.9	192	1.1	1703433	Drill Core	2.96	<0.005		0.0025
1703434	Split Core		AUL-19-33	192	193	1	1703434	Drill Core	2.49		0.005	0.005
1703435	Standard	217					1703435	Pulp	0.06		0.342	0.342
1703436	Split Core		AUL-19-33	193	194	1	1703436	Drill Core	2.11		0.021	0.021
1703437	Split Core		AUL-19-33	194	195	1	1703437	Drill Core	2.98	<0.005		0.0025
1703438	Split Core		AUL-19-33	195	196	1	1703438	Drill Core	1.68		0.006	0.006
1703439	Split Core		AUL-19-33	196	197	1	1703439	Drill Core	1.98		0.034	0.034
1703440	Blank	BLANK					1703440	Rock	0.28	<0.005		0.0025
1703441	Split Core		AUL-19-33	197	198	1	1703441	Drill Core	2.43		0.006	0.006
1703442	Split Core		AUL-19-33	198	198.7	0.7	1703442	Drill Core	1.22	<0.005		0.0025
1703443	Split Core		AUL-19-33	198.7	199.4	0.7	1703443	Drill Core	1.79	<0.005		0.0025
1703444	Split Core		AUL-19-33	199.4	200.5	1.1	1703444	Drill Core	2.61	<0.005		0.0025
1703445	Split Core		AUL-19-33	200.5	201.4	0.9	1703445	Drill Core	2.28		0.016	0.016
1703446	Split Core		AUL-19-33	201.4	202.5	1.1	1703446	Drill Core	2.13	<0.005		0.0025
1703447	Split Core		AUL-19-33	202.5	203	0.5	1703447	Drill Core	1.57	<0.005		0.0025
1703448	Split Core		AUL-19-33	203	204	1	1703448	Drill Core	1.87	<0.005		0.0025
1703449	Split Core	DUP	AUL-19-33	204	204.7	0.7	1703449	Drill Core	0.6		0.01	0.01
1703450	1/4 Core	DUP					1703450	Drill Core	0.66		0.008	0.008
1703451	Split Core		AUL-19-33	204.7	205.6	0.9	1703451	Drill Core	1.9		0.009	0.009
1703452	Split Core		AUL-19-33	205.6	206.5	0.9	1703452	Drill Core	2.14	<0.005		0.0025
1703453	Split Core		AUL-19-33	206.5	207.5	1	1703453	Drill Core	2.59	<0.005		0.0025
1703454	Split Core		AUL-19-33	207.5	208.5	1	1703454	Drill Core	1.81	<0.005		0.0025
1703455	Split Core		AUL-19-33	208.5	209.5	1	1703455	Drill Core	2.68		0.03	0.03
1703456	Split Core		AUL-19-33	209.5	210.5	1	1703456	Drill Core	2.16		0.008	0.008
1703457	Split Core		AUL-19-33	210.5	211.3	0.8	1703457	Drill Core	1.74		0.007	0.007

Samples

1703458	Split Core		AUL-19-33	211.3	212	0.7	1703458	Drill Core	1.54		0.006	0.006
1703459	Split Core		AUL-19-33	212	213	1	1703459	Drill Core	2.39	<0.005		0.0025
1703460	Standard	216					1703460	Pulp	0.07		6.542	6.542
1703461	Split Core		AUL-19-33	213	213.4	0.4	1703461	Drill Core	0.85	<0.005		0.0025
1703462	Split Core		AUL-19-33	213.4	213.7	0.3	1703462	Drill Core	0.81		0.007	0.007
1703463	Split Core		AUL-19-33	213.7	214.7	1	1703463	Drill Core	2.19	<0.005		0.0025
1703464	Split Core		AUL-19-33	214.7	215.5	0.8	1703464	Drill Core	2.24		0.014	0.014
1703465	Split Core		AUL-19-33	215.5	216.5	1	1703465	Drill Core	1.89	<0.005		0.0025
1703466	Split Core		AUL-19-33	216.5	217.5	1	1703466	Drill Core	2.29	<0.005		0.0025
1703467	Split Core		AUL-19-33	217.5	218.15	0.65	1703467	Drill Core	1.65	<0.005		0.0025
1703468	Split Core		AUL-19-33	218.15	218.5	0.35	1703468	Drill Core	0.69		0.309	0.309
1703469	Split Core		AUL-19-33	218.5	219.1	0.6	1703469	Drill Core	1.11		0.034	0.034
1703470	Split Core		AUL-19-33	219.1	220	0.9	1703470	Drill Core	2.49		0.007	0.007
1703471	Split Core		AUL-19-33	220	220.6	0.6	1703471	Drill Core	1.35		0.293	0.293
1703472	Split Core		AUL-19-33	220.6	220.9	0.3	1703472	Drill Core	0.87		0.049	0.049
1703473	Split Core		AUL-19-33	220.9	222	1.1	1703473	Drill Core	2.5		0.059	0.059
1703474	Split Core	DUP	AUL-19-33	222	222.5	0.5	1703474	Drill Core	0.4		0.413	0.413
1703475	1/4 Core	DUP					1703475	Drill Core	0.44		0.151	0.151
1703476	Split Core		AUL-19-33	222.5	223.5	1	1703476	Drill Core	1.86		1.695	1.695
1703477	Split Core		AUL-19-33	223.5	224.5	1	1703477	Drill Core	2.61		1.388	1.388
1703478	Split Core		AUL-19-33	224.5	225.5	1	1703478	Drill Core	2.92		1.143	1.143
1703479	Split Core		AUL-19-33	225.5	226.5	1	1703479	Drill Core	2.8		0.431	0.431
1703480	Split Core		AUL-19-33	226.5	227.5	1	1703480	Drill Core	3.17		0.513	0.513
1703481	Split Core		AUL-19-33	227.5	228.5	1	1703481	Drill Core	2.72		0.798	0.798
1703482	Split Core		AUL-19-33	228.5	229.5	1	1703482	Drill Core	3.03		0.098	0.098
1703483	Split Core		AUL-19-33	229.5	230.5	1	1703483	Drill Core	2.38		0.73	0.73
1703484	Split Core		AUL-19-33	230.5	231.5	1	1703484	Drill Core	2.74		1.12	1.12
1703485	Standard	217					1703485	Pulp	0.06		0.342	0.342
1703486	Split Core		AUL-19-33	231.5	232.5	1	1703486	Drill Core	2.46		4.546	4.546
1703487	Split Core		AUL-19-33	232.5	233.5	1	1703487	Drill Core	2.15		1.825	1.825
1703488	Split Core		AUL-19-33	233.5	234.75	1.25	1703488	Drill Core	2.73		1.353	1.353
1703489	Split Core		AUL-19-33	234.75	237.5	2.75	1703489	Drill Core	3.16		0.029	0.029
1703490	Blank	BLANK					1703490	Rock	0.32	<0.005		0.0025
1703491	Split Core		AUL-19-33	237.5	238.5	1	1703491	Drill Core	2.21		0.009	0.009

Samples

1703492	Split Core		AUL-19-33	238.5	239.5	1	1703492	Drill Core	2.4		0.013	0.013
1703493	Split Core		AUL-19-33	239.5	240	0.5	1703493	Drill Core	0.84		0.024	0.024
1703494	Split Core		AUL-19-33	240	240.5	0.5	1703494	Drill Core	0.75		0.01	0.01
1703495	Split Core		AUL-19-33	240.5	241.5	1	1703495	Drill Core	2.37	<0.005		0.0025
1703496	Split Core		AUL-19-33	241.5	242.5	1	1703496	Drill Core	2.19	<0.005		0.0025
1703497	Split Core		AUL-19-33	242.5	243.5	1	1703497	Drill Core	2.01	<0.005		0.0025
1703498	Split Core		AUL-19-33	243.5	244.5	1	1703498	Drill Core	2.23	<0.005		0.0025
1703499	Split Core	DUP	AUL-19-33	244.5	245.5	1	1703499	Drill Core	0.48		0.009	0.009
1703500	1/4 Core	DUP					1703500	Drill Core	0.47	<0.005		0.0025
1703501	Split Core		AUL-19-33	245.5	246.5	1	1703501	Drill Core	1.33	<0.005		0.0025
1703502	Split Core		AUL-19-33	246.5	247.5	1	1703502	Drill Core	1.89		0.012	0.012
1703503	Split Core		AUL-19-33	247.5	248.5	1	1703503	Drill Core	2.11	<0.005		0.0025
1703504	Split Core		AUL-19-33	330.5	331.5	1	1703504	Drill Core	2.66		0.008	0.008
1703505	Split Core		AUL-19-33	331.5	332.5	1	1703505	Drill Core	2.33		0.006	0.006
1703506	Split Core		AUL-19-33	332.5	333.5	1	1703506	Drill Core	2.35		0.026	0.026
1703507	Split Core		AUL-19-33	333.5	334.5	1	1703507	Drill Core	2.87		0.074	0.074
1703508	Split Core		AUL-19-33	334.5	335.5	1	1703508	Drill Core	2.63		0.076	0.076
1703509	Split Core		AUL-19-33	335.5	336.5	1	1703509	Drill Core	2.76		0.067	0.067
1703510	Standard	216					1703510	Pulp	0.1		6.645	6.645
1703511	Split Core		AUL-19-33	336.5	337.5	1	1703511	Drill Core	1.69		0.039	0.039
1703512	Split Core		AUL-19-33	337.5	338	0.5	1703512	Drill Core	2.22		0.069	0.069
1703513	Split Core		AUL-19-33	338	338.5	0.5	1703513	Drill Core	1.11		0.154	0.154
1703514	Split Core		AUL-19-33	338.5	339.5	1	1703514	Drill Core	2.37		0.155	0.155
1703515	Split Core		AUL-19-33	339.5	340.5	1	1703515	Drill Core	1.71		0.05	0.05
1703516	Split Core		AUL-19-33	340.5	341.5	1	1703516	Drill Core	2.11		0.023	0.023
1703517	Split Core		AUL-19-33	341.5	342.5	1	1703517	Drill Core	2.44		0.022	0.022
1703518	Split Core		AUL-19-33	342.5	343.5	1	1703518	Drill Core	2.44		0.019	0.019
1703519	Split Core		AUL-19-33	343.5	344.5	1	1703519	Drill Core	2.39		0.03	0.03
1703520	Split Core		AUL-19-33	344.5	345	0.5	1703520	Drill Core	1.31		0.083	0.083
1703521	Split Core		AUL-19-33	345.0	346	1	1703521	Drill Core	2.42		0.025	0.025
1703522	Split Core		AUL-19-33	346.0	347	1	1703522	Drill Core	2.26		0.023	0.023
1703523	Split Core		AUL-19-33	347.0	348	1	1703523	Drill Core	2.27		0.023	0.023
1703524	Split Core	DUP	AUL-19-33	348.0	348.9	0.9	1703524	Drill Core	1.1		0.022	0.022
1703525	1/4 Core	DUP					1703525	Drill Core	0.93		0.023	0.023

Samples

1703526	Split Core		AUL-19-33	348.9	349.5	0.6	1703526	Drill Core	1.87		0.1	0.1
1703527	Split Core		AUL-19-33	349.5	350.25	0.75	1703527	Drill Core	1.55		0.068	0.068
1703528	Split Core		AUL-19-33	350.3	351	0.75	1703528	Drill Core	1.63		0.046	0.046
1703529	Split Core		AUL-19-33	351.0	352	1	1703529	Drill Core	2.36		0.052	0.052
1703530	Split Core		AUL-19-33	352.0	353	1	1703530	Drill Core	2.47		0.026	0.026
1703531	Split Core		AUL-19-33	353.0	354	1	1703531	Drill Core	1.98		0.037	0.037
1703532	Split Core		AUL-19-33	354.0	355	1	1703532	Drill Core	2.21		0.008	0.008
1703533	Split Core		AUL-19-33	355.0	356	1	1703533	Drill Core	1.95		0.009	0.009
1703534	Split Core		AUL-19-33	356.0	357	1	1703534	Drill Core	2.12		0.008	0.008
1703535	Standard	217					1703535	Pulp	0.1		0.329	0.329
1703536	Split Core		AUL-19-33	357.0	358	1	1703536	Drill Core	1.96		0.005	0.005
1703537	Split Core		AUL-19-33	358.0	359	1	1703537	Drill Core	2.13		0.008	0.008
1703538	Split Core		AUL-19-33	359.0	360	1	1703538	Drill Core	2.54		0.005	0.005
1703539	Split Core		AUL-19-33	360.0	361	1	1703539	Drill Core	2.15		0.008	0.008
1703540	Blank	BLANK					1703540	Rock	0.34	<0.005		0.0025
1703541	Split Core		AUL-19-33	361.0	362	1	1703541	Drill Core	2.25		0.028	0.028
1703542	Split Core		AUL-19-33	362.0	363	1	1703542	Drill Core	2.43	<0.005		0.0025
1703543	Split Core		AUL-19-33	363.0	364	1	1703543	Drill Core	2.26	<0.005		0.0025
1703544	Split Core		AUL-19-33	364.0	365	1	1703544	Drill Core	2.49		0.015	0.015
1703545	Split Core		AUL-19-33	365.0	366	1	1703545	Drill Core	1.06		0.017	0.017
1703546	Split Core		AUL-19-33	366.0	367	1	1703546	Drill Core	1.21		0.028	0.028
1703547	Split Core		AUL-19-33	367.0	368	1	1703547	Drill Core	2.43		0.017	0.017
1703548	Split Core		AUL-19-33	368.0	369	1	1703548	Drill Core	1.85		0.01	0.01
1703549	Split Core	DUP	AUL-19-33	369.0	370	1	1703549	Drill Core	0.95		0.011	0.011
1703550	1/4 Core	DUP					1703550	Drill Core	1.15		0.014	0.014
1703551	Split Core		AUL-19-33	370.0	371	1	1703551	Drill Core	2.35		0.118	0.118
1703552	Split Core		AUL-19-33	371.0	372	1	1703552	Drill Core	2.4		0.108	0.108
1703553	Split Core		AUL-19-33	372.0	373	1	1703553	Drill Core	2.47		0.186	0.186
1703554	Split Core		AUL-19-33	373.0	374	1	1703554	Drill Core	2.37		0.337	0.337
1703555	Split Core		AUL-19-33	374.0	374.75	0.75	1703555	Drill Core	1.88		0.234	0.234
1703556	Split Core		AUL-19-33	374.8	375.6	0.85	1703556	Drill Core	2.54		2.424	2.424
1703557	Split Core		AUL-19-33	375.6	376	0.4	1703557	Drill Core	0.86		0.838	0.838
1703558	Split Core		AUL-19-33	376.0	377	1	1703558	Drill Core	2.42		1.357	1.357
1703559	Split Core		AUL-19-33	377.0	378	1	1703559	Drill Core	2.44		0.583	0.583

Samples

1703560	Standard	216					1703560	Pulp	0.1	6.725	6.725
1703561	Split Core		AUL-19-33	378.0	379	1	1703561	Drill Core	2.4	0.759	0.759
1703562	Split Core		AUL-19-33	379.0	380	1	1703562	Drill Core	2.38	0.382	0.382
1703563	Split Core		AUL-19-33	380.0	381	1	1703563	Drill Core	2.13	0.483	0.483
1703564	Split Core		AUL-19-33	381.0	381.75	0.75	1703564	Drill Core	1.95	0.375	0.375
1703565	Split Core		AUL-19-33	381.8	382.2	0.45	1703565	Drill Core	0.94	0.679	0.679
1703566	Split Core		AUL-19-33	382.2	383	0.8	1703566	Drill Core	2.23	3.476	3.476
1703567	Split Core		AUL-19-33	383.0	383.6	0.6	1703567	Drill Core	1.27	4.749	4.749
1703568	Split Core		AUL-19-33	383.6	384.5	0.9	1703568	Drill Core	2.58	0.748	0.748
1703569	Split Core		AUL-19-33	384.5	385.5	1	1703569	Drill Core	2.07	0.102	0.102
1703570	Split Core		AUL-19-33	385.5	386.5	1	1703570	Drill Core	2.15	0.247	0.247
1703571	Split Core		AUL-19-33	386.5	387.5	1	1703571	Drill Core	3.32	0.211	0.211
1703572	Split Core		AUL-19-33	387.5	388.5	1	1703572	Drill Core	2.31	0.267	0.267
1703573	Split Core		AUL-19-33	388.5	389.5	1	1703573	Drill Core	2.57	0.206	0.206
1703574	Split Core	DUP	AUL-19-33	389.5	390.35	0.85	1703574	Drill Core	0.89	0.627	0.627
1703575	1/4 Core	DUP					1703575	Drill Core	0.7	0.536	0.536
1703576	Split Core		AUL-19-33	390.4	390.7	0.35	1703576	Drill Core	2	0.465	0.465
1703577	Split Core		AUL-19-33	390.7	391.5	0.8	1703577	Drill Core	1.21	0.402	0.402
1703578	Split Core		AUL-19-33	391.5	392.5	1	1703578	Drill Core	2.71	0.493	0.493
1703579	Split Core		AUL-19-33	392.5	393.5	1	1703579	Drill Core	1.7	0.508	0.508
1703580	Split Core		AUL-19-33	393.5	394.5	1	1703580	Drill Core	2.23	1.004	1.004
1703581	Split Core		AUL-19-33	394.5	395.5	1	1703581	Drill Core	2.53	1.032	1.032
1703582	Split Core		AUL-19-33	395.5	396.5	1	1703582	Drill Core	2.65	0.578	0.578
1703583	Split Core		AUL-19-33	396.5	397.5	1	1703583	Drill Core	2.17	0.342	0.342
1703584	Split Core		AUL-19-33	397.5	398.5	1	1703584	Drill Core	1.91	1.152	1.152
1703585	Standard	217					1703585	Pulp	0.1	0.324	0.324
1703586	Split Core		AUL-19-33	398.5	399.5	1	1703586	Drill Core	2.88	1.808	1.808
1703587	Split Core		AUL-19-33	399.5	400.1	0.6	1703587	Drill Core	1.96	3.835	3.835
1703588	Split Core		AUL-19-33	400.1	401	0.9	1703588	Drill Core	2.33	3.161	3.161
1703589	Split Core		AUL-19-33	401.0	402	1	1703589	Drill Core	2.43	1.609	1.609
1703590	Blank	BLANK					1703590	Rock	0.25	0.006	0.006
1703591	Split Core		AUL-19-33	402.0	402.7	0.7	1703591	Drill Core	2.03	1.974	1.974
1703592	Split Core		AUL-19-33	402.7	403	0.3	1703592	Drill Core	0.88	0.837	0.837
1703593	Split Core		AUL-19-33	403.0	403.5	0.5	1703593	Drill Core	1.48	1.79	1.79

Samples

1703594	Split Core		AUL-19-33	403.5	404.4	0.9	1703594	Drill Core	1.98		0.951	0.951
1703595	Split Core		AUL-19-33	404.4	405	0.6	1703595	Drill Core	1.7		2.097	2.097
1703596	Split Core		AUL-19-33	405.0	405.7	0.7	1703596	Drill Core	1.71		2.322	2.322
1703597	Split Core		AUL-19-33	405.7	406.1	0.4	1703597	Drill Core	1.32		3.195	3.195
1703598	Split Core		AUL-19-33	406.1	406.7	0.6	1703598	Drill Core	1.59		3.446	3.446
1703599	Split Core	DUP	AUL-19-33	406.7	407.5	0.8	1703599	Drill Core	0.68		0.1	0.1
1703600	1/4 Core	DUP					1703600	Drill Core	0.69		0.088	0.088
1703601	Split Core		AUL-19-33	407.5	408.5	1	1703601	Drill Core	2.28		0.079	0.079
1703602	Split Core		AUL-19-33	408.5	409.5	1	1703602	Drill Core	2.59		0.057	0.057
1703603	Split Core		AUL-19-33	409.5	410.5	1	1703603	Drill Core	2.41		0.065	0.065
1703604	Split Core		AUL-19-33	410.5	411.5	1	1703604	Drill Core	2.61		0.023	0.023
1703605	Split Core		AUL-19-33	411.5	412.5	1	1703605	Drill Core	2.52		0.01	0.01
1703606	Split Core		AUL-19-33	412.5	413.5	1	1703606	Drill Core	1.72		0.005	0.005
1703607	Split Core		AUL-19-33	500.0	500.5	0.5	1703607	Drill Core	1.33		0.016	0.016
1703608	Split Core		AUL-19-33	500.5	501.5	1	1703608	Drill Core	1.72		0.015	0.015
1703609	Split Core		AUL-19-33	501.5	502.5	1	1703609	Drill Core	2.17		0.007	0.007
1703610	Standard	216					1703610	Pulp	0.06		6.417	6.417
1703611	Split Core		AUL-19-33	509.0	510	1	1703611	Drill Core	2.5		0.008	0.008
1703612	Split Core		AUL-19-33	513.0	514	1	1703612	Drill Core	2.09	<0.005		0.0025
1703613	Split Core		AUL-19-33	523.7	524.15	0.48	1703613	Drill Core	1.21	<0.005		0.0025
1703614	Split Core		AUL-19-33	543.0	544	1	1703614	Drill Core	2.23		0.011	0.011

Header

	LOCATION (NAD83 17N)					PLANNED	
DDH ID	**XCOLLAR**	**YCOLLAR**	**ZCOLLAR**	**DEPTH**	**ROCK**	**BRG**	**DIP**
AUL-19-34	592285	5482990	283	300	264	180	-50

	Legacy	Cell
Claim Number	3019086	311282 (Collar), 265982

Purpose	To test coincident IP (from 1983 survey) and Soil-gas anomalies to the south of the main zone at Mikwam
Result	Explanation for IP anomaly not encountered. Hole intersected narrow (~10cm) sulphide bands near end of hole
Start date	2019-03-13
End date	2019-03-14
Drill Contractor	NOREX
Logged By	Scott Zelligan

Description

BHID	FROM	TO	LENGTH	LITHO	SIMPLIFIED	Comment
AUL-19-34	0	36	36	OVB	OVB	Not recovered, fragments of possible boulders/pebbles including pink and white granitic fragments
AUL-19-34	36	56.85	20.85	QPtuffPC	QPtuff	Strongly banded/foliated elongated clasts, with lighter and darker bands. Intermittent saprolitic alteration until 49m depth, giving way to intermittent sericitc alteration. Quartz-phyric tuffaceous matrix.
AUL-19-34	56.85	57.05	0.2	QV	QV	White quartz vein
AUL-19-34	57.05	86.5	29.45	QPtuffPC	QPtuff	Strongly banded/foliated elongated clasts, with lighter and darker bands. InIntermittent sericitc alteration. Quartz-phyric tuffaceous matrix. Intermittent quartz veins/stringers.
AUL-19-34	86.5	157.6	71.1	QPtuff	QPtuff	Banded/foliated fine-grained quartz-phyric tuff, with intermittent quartz veins/stringers
AUL-19-34	157.6	159	1.4	ARG	ARG	Fine-grained dark argillite? Possibly dyke
AUL-19-34	159	183	24	QPtuff	QPtuff	Banded/foliated fine-grained quartz-phyric tuff, with intermittent quartz veins/stringers
AUL-19-34	183	184	1	FLThea	FLThea	Milky white quartz vein with qp-tuff fragments
AUL-19-34	184	209.8	25.8	QPtuff	QPtuff	Banded/foliated fine-grained quartz-phyric tuff, with intermittent quartz veins/stringers
AUL-19-34	209.8	209.85	0.05	QV	QV	Milky white quartz vein with qp-tuff fragments
AUL-19-34	209.85	210.3	0.45	QPtuff	QPtuff	Banded/foliated fine-grained quartz-phyric tuff, with intermittent quartz veins/stringers
AUL-19-34	210.3	210.6	0.3	QV	QV	Milky white quartz vein at contact between differing tuffs
AUL-19-34	210.6	214.75	4.15	TUFFser	TUFF	Strongly sericite altered strongly banded/foliated, fine- to medium-grained tuff. Occasional wavy/folded banding. Intermittent quartz-carbonate veining/stringers
AUL-19-34	214.75	215	0.25	QV	QV	Milky white quartz vein with tuff fragments
AUL-19-34	215	218.05	3.05	TUFFser	TUFF	Strongly sericite altered strongly banded/foliated, fine- to medium-grained tuff. Occasional wavy/folded banding. Intermittent quartz-carbonate veining/stringers
AUL-19-34	218.05	218.25	0.2	QV	QV	Milky white quartz vein with tuff fragments
AUL-19-34	218.25	221	2.75	TUFFser	TUFF	Strongly sericite altered strongly banded/foliated, fine- to medium-grained tuff. Occasional wavy/folded banding. Intermittent quartz-carbonate veining/stringers
AUL-19-34	221	276	55	TUFF	TUFF	Weakly sericite altered, strongly banded/foliated, fine-medium-grained tuff. Occasional wavy/folded banding. Intermittent quartz-carbonate veining/stringers
AUL-19-34	276	287.42	11.42	TUFFser	TUFF	Intermittent strongly sericite altered strongly banded/foliated, fine- to medium-grained tuff. Occasional wavy/folded banding. Intermittent quartz-carbonate veining/stringers
AUL-19-34	287.42	287.58	0.16	QV	QV	Milky white quartz vein
AUL-19-34	287.58	291.45	3.87	TUFF	TUFF	Weakly sericite altered, strongly banded/foliated, fine-medium-grained tuff. Occasional wavy/folded banding. Intermittent quartz-carbonate veining/stringers
AUL-19-34	291.45	291.55	0.1	MS	MS	Semi-massive/massive pyrite band/layer/vein (3cm true-width)
AUL-19-34	291.55	292.5	0.95	TUFF	TUFF	Weakly sericite altered, strongly banded/foliated, fine-medium-grained tuff. Occasional wavy/folded banding. Intermittent quartz-carbonate veining/stringers
AUL-19-34	292.5	292.7	0.2	MS	MS	Two semi-massive/massive pyrite band/layer/vein (2cm width, 2cm apart)
AUL-19-34	292.7	300	7.3	TUFF	TUFF	Weakly sericite altered, strongly banded/foliated, fine-medium-grained tuff. Occasional wavy/folded banding. Intermittent quartz-carbonate veining/stringers

Mineralization

BHID	FROM	TO	LENGTH	PY_PER	ASP_PER	TOTAL_PER	STYLE	Comments
AUL-19-34	291.45	291.55	0.1	75		75	BAND	Semi-massive/massive pyrite band/layer/vein (3cm true-width)
AUL-19-34	292.5	292.7	0.2	50		50	BAND	Two semi-massive/massive pyrite band/layer/vein (2cm width, 2cm apart)

Quartz-Carb

BHID	FROM	TO	LENGTH	NUMPERM	TYPE	Comment
AUL-19-34	36	56.85	20.85	2	STRINGERS	
AUL-19-34	56.85	57.05	0.2	1	VEIN	
AUL-19-34	57.05	86.5	29.45	2	VEINS/STRINGERS	
AUL-19-34	86.5	114	27.5	1	STRINGERS	
AUL-19-34	114	143.3	29.3	5	STRINGERS	
AUL-19-34	143.3	162	18.7	1	STRINGERS	
AUL-19-34	162	183	21	3	STRINGERS	
AUL-19-34	183	184	1	3	MASSIVE	
AUL-19-34	184	209.8	25.8	3	STRINGERS	
AUL-19-34	209.8	209.85	0.05	1	VEIN	
AUL-19-34	209.85	210.3	0.45	15	BANDS/STRINGERS	
AUL-19-34	210.3	210.6	0.3	1	VEIN	
AUL-19-34	210.6	214.75	4.15	15	BANDS/STRINGERS	
AUL-19-34	214.75	215	0.25	1	VEIN	
AUL-19-34	215	218.05	3.05	15	BANDS/STRINGERS	
AUL-19-34	218.05	218.25	0.2	1	VEIN	
AUL-19-34	218.25	287.42	69.17	15	BANDS/STRINGERS	
AUL-19-34	287.42	287.58	0.16	1	VEIN	
AUL-19-34	287.58	300	12.42	15	BANDS/STRINGERS	

Structure

BHID	FROM	TO	LENGTH	Deg to CA	STRUCTURE	Comment
AUL-19-34	183	184	1	45	FLThea	Milky white quartz vein infilling/healing fault

Alteration

BHID	FROM	TO	LENGTH	ALTERATION	Comments
AUL-19-34	36	49	13	SAPROLITE	intermittent saprolitic degradation
AUL-19-34	49	209.8	160.8	SERICITE	Intermittent weak to moderate sericite alteration
AUL-19-34	209.8	221	11.2	SERICITE	Strong sericite alteration
AUL-19-34	221	235	14	SERICITE	Intermittent moderate sericite alteration
AUL-19-34	276	300	24	SERICITE	Intermittent moderate to strong sericite alteration

RQD

BHID	FROM	TO	LENGTH	RECOVERY	REC_PER	RQD	RQD_PER	Comments
AUL-19-34	36	39	3.00	**1.11**	37%	0.00	0%	
AUL-19-34	39	42	3.00	**2.71**	90%	0.50	18%	
AUL-19-34	42	45	3.00	**2.34**	78%	0.40	17%	
AUL-19-34	45	48	3.00	**1.12**	37%	0.40	36%	
AUL-19-34	48	51	3.00	**2.80**	93%	1.10	39%	
AUL-19-34	51	54	3.00	**3.01**	100%	2.20	73%	
AUL-19-34	54	57	3.00	**2.86**	95%	2.80	98%	
AUL-19-34	57	60	3.00	**2.63**	88%	1.90	72%	
AUL-19-34	60	63	3.00	**2.79**	93%	1.90	68%	
AUL-19-34	63	66	3.00	**2.85**	95%	1.80	63%	
AUL-19-34	66	69	3.00	**2.74**	91%	1.60	58%	
AUL-19-34	69	72	3.00	**2.81**	94%	2.10	75%	
AUL-19-34	72	75	3.00	**2.97**	99%	1.90	64%	
AUL-19-34	75	78	3.00	**2.97**	99%	2.10	71%	
AUL-19-34	78	81	3.00	**3.02**	101%	1.90	63%	
AUL-19-34	81	84	3.00	**2.92**	97%	2.40	82%	
AUL-19-34	84	87	3.00	**3.03**	101%	2.80	93%	
AUL-19-34	87	90	3.00	**3.01**	100%	2.10	70%	
AUL-19-34	90	93	3.00	**3.04**	101%	2.70	89%	
AUL-19-34	93	96	3.00	**2.94**	98%	2.80	95%	
AUL-19-34	96	99	3.00	**2.79**	93%	2.79	100%	
AUL-19-34	99	102	3.00	**2.98**	99%	2.80	94%	
AUL-19-34	102	105	3.00	**3.00**	100%	2.60	87%	
AUL-19-34	105	108	3.00	**2.92**	97%	2.80	96%	
AUL-19-34	108	111	3.00	**2.97**	99%	2.90	98%	
AUL-19-34	111	114	3.00	**3.00**	100%	2.80	93%	
AUL-19-34	114	117	3.00	**2.80**	93%	2.50	89%	
AUL-19-34	117	120	3.00	**3.06**	102%	2.60	85%	
AUL-19-34	120	123	3.00	**3.00**	100%	2.80	93%	
AUL-19-34	123	126	3.00	**3.04**	101%	2.60	86%	
AUL-19-34	126	129	3.00	**2.88**	96%	2.50	87%	
AUL-19-34	129	132	3.00	**2.81**	94%	2.60	92%	
AUL-19-34	132	135	3.00	**2.90**	97%	2.80	97%	
AUL-19-34	135	138	3.00	**2.86**	95%	2.40	84%	
AUL-19-34	138	141	3.00	**3.00**	100%	1.60	53%	
AUL-19-34	141	144	3.00	**2.98**	99%	2.60	87%	
AUL-19-34	144	147	3.00	**3.04**	101%	2.60	86%	
AUL-19-34	147	150	3.00	**2.78**	93%	1.80	65%	
AUL-19-34	150	153	3.00	**2.98**	99%	2.10	70%	
AUL-19-34	153	156	3.00	**2.71**	90%	1.90	70%	
AUL-19-34	156	159	3.00	**2.78**	93%	1.10	40%	
AUL-19-34	159	162	3.00	**2.96**	99%	1.20	41%	
AUL-19-34	162	165	3.00	**2.85**	95%	1.10	39%	
AUL-19-34	165	168	3.00	**3.05**	102%	1.80	59%	
AUL-19-34	168	171	3.00	**2.89**	96%	2.10	73%	
AUL-19-34	171	174	3.00	**2.96**	99%	2.60	88%	
AUL-19-34	174	177	3.00	**2.83**	94%	2.50	88%	
AUL-19-34	177	180	3.00	**2.89**	96%	2.50	87%	
AUL-19-34	180	183	3.00	**2.85**	95%	2.40	84%	

RQD

AUL-19-34	183	186	3.00	**2.75**	92%	1.90	69%
AUL-19-34	186	189	3.00	**2.94**	98%	2.90	99%
AUL-19-34	189	192	3.00	**2.87**	96%	2.70	94%
AUL-19-34	192	195	3.00	**2.94**	98%	2.80	95%
AUL-19-34	195	198	3.00	**2.96**	99%	2.70	91%
AUL-19-34	198	201	3.00	**2.82**	94%	2.40	85%
AUL-19-34	201	204	3.00	**2.92**	97%	2.40	82%
AUL-19-34	204	207	3.00	**2.93**	98%	2.30	78%
AUL-19-34	207	210	3.00	**2.88**	96%	2.50	87%
AUL-19-34	210	213	3.00	**2.99**	100%	1.80	60%
AUL-19-34	213	216	3.00	**2.83**	94%	2.40	85%
AUL-19-34	216	219	3.00	**2.91**	97%	2.40	82%
AUL-19-34	219	222	3.00	**2.87**	96%	2.60	91%
AUL-19-34	222	225	3.00	**2.92**	97%	2.50	86%
AUL-19-34	225	228	3.00	**2.92**	97%	2.60	89%
AUL-19-34	228	231	3.00	**2.88**	96%	1.90	66%
AUL-19-34	231	234	3.00	**3.03**	101%	2.70	89%
AUL-19-34	234	237	3.00	**2.96**	99%	2.80	95%
AUL-19-34	237	240	3.00	**3.00**	100%	2.70	90%
AUL-19-34	240	243	3.00	**3.20**	107%	2.80	87%
AUL-19-34	243	246	3.00	**2.93**	98%	2.80	95%
AUL-19-34	246	249	3.00	**2.97**	99%	2.90	98%
AUL-19-34	249	252	3.00	**2.94**	98%	2.90	99%
AUL-19-34	252	255	3.00	**3.03**	101%	2.90	96%
AUL-19-34	255	258	3.00	**2.86**	95%	2.86	100%
AUL-19-34	258	261	3.00	**2.93**	98%	2.80	95%
AUL-19-34	261	264	3.00	**3.02**	101%	2.80	93%
AUL-19-34	264	267	3.00	**2.95**	98%	2.90	98%
AUL-19-34	267	270	3.00	**3.07**	102%	2.90	95%
AUL-19-34	270	273	3.00	**2.98**	99%	2.80	94%
AUL-19-34	273	276	3.00	**2.73**	91%	0.80	29%
AUL-19-34	276	279	3.00	**3.13**	104%	1.60	51%
AUL-19-34	279	282	3.00	**2.89**	96%	1.70	59%
AUL-19-34	282	285	3.00	**3.02**	101%	1.90	63%
AUL-19-34	285	288	3.00	**3.09**	103%	1.90	61%
AUL-19-34	288	291	3.00	**2.95**	98%	2.00	68%
AUL-19-34	291	294	3.00	**2.87**	96%	1.90	66%
AUL-19-34	294	297	3.00	**2.91**	97%	2.90	100%
AUL-19-34	297	300	3.00	**3.20**	107%	2.90	91%
			264.00	253.24	96%	198.75	78%

Survey

BHID	AT	BRG	DIP	Mag Field	Meas Azi	Use Az	Use Dip	Device	Comments
AUL-19-34	66.0	184.9	-50.1	5615	197.9	Yes	Yes	Reflex EZ-Shot	
AUL-19-34	117.0	185.8	-48.9	5593	198.8	Yes	Yes	Reflex EZ-Shot	
AUL-19-34	168	188.2	-48.3	5586	201.2	Yes	Yes	Reflex EZ-Shot	
AUL-19-34	219	188.5	-47.5	5603	201.5	Yes	Yes	Reflex EZ-Shot	
AUL-19-34	270	192.1	-45.4	5591	205.1	Yes	Yes	Reflex EZ-Shot	

Samples

Sample Number	Type	QAQC	BHID	FROM	TO	LENGTH			SAMPLE WEIGHT	Au PPM (FA430) - Lab	Au GMT	Au Final
1703615	Split Core		AUL-19-34	40	41	1	1703615	Drill Core	1.29		0.009	0.009
1703616	Split Core		AUL-19-34	41	42	1	1703616	Drill Core	1.72		0.034	0.034
1703617	Split Core		AUL-19-34	42	43	1	1703617	Drill Core	1.84		0.059	0.059
1703618	Split Core		AUL-19-34	43	45	2	1703618	Drill Core	1.46		0.014	0.014
1703619	Split Core		AUL-19-34	45	48	3	1703619	Drill Core	2.09		0.016	0.016
1703620	Split Core		AUL-19-34	48	49	1	1703620	Drill Core	1.91		0.043	0.043
1703621	Split Core		AUL-19-34	49	50	1	1703621	Drill Core	2.03		0.006	0.006
1703622	Split Core		AUL-19-34	52.5	53	0.5	1703622	Drill Core	1.7		0.049	0.049
1703623	Split Core		AUL-19-34	56	56.75	0.75	1703623	Drill Core	1.13		0.01	0.01
1703624	Split Core	DUP	AUL-19-34	56.75	57.25	0.5	1703624	Drill Core	0.6		0.005	0.005
1703625	1/4 Core	DUP					1703625	Drill Core	0.48		0.013	0.013
1703626	Split Core		AUL-19-34	57.25	58	0.75	1703626	Drill Core	2.12		0.014	0.014
1703627	Split Core		AUL-19-34	68	69	1	1703627	Drill Core	1.69		0.007	0.007
1703628	Split Core		AUL-19-34	69	70	1	1703628	Drill Core	2.3		0.06	0.06
1703629	Split Core		AUL-19-34	70	71	1	1703629	Drill Core	2.38		0.04	0.04
1703630	Split Core		AUL-19-34	71	72	1	1703630	Drill Core	2.43		0.06	0.06
1703631	Split Core		AUL-19-34	72	73	1	1703631	Drill Core	2.84		0.019	0.019
1703632	Split Core		AUL-19-34	73	74	1	1703632	Drill Core	1.66		0.008	0.008
1703633	Split Core		AUL-19-34	74	75	1	1703633	Drill Core	2.24		0.01	0.01
1703634	Split Core		AUL-19-34	75	76	1	1703634	Drill Core	2.41		0.005	0.005
1703635	Standard	217					1703635	Pulp	0.06		0.329	0.329
1703636	Split Core		AUL-19-34	76	77	1	1703636	Drill Core	2.36		0.005	0.005
1703637	Split Core		AUL-19-34	77	78	1	1703637	Drill Core	2.29	<0.005		0.0025
1703638	Split Core		AUL-19-34	78	78.5	0.5	1703638	Drill Core	1.24		0.007	0.007
1703639	Split Core		AUL-19-34	78.5	79.5	1	1703639	Drill Core	0.94		0.007	0.007
1703640	Blank	BLANK					1703640	Rock	0.35	<0.005		0.0025
1703641	Split Core		AUL-19-34	79.5	80	0.5	1703641	Drill Core	1.07		0.017	0.017
1703642	Split Core		AUL-19-34	80	81	1	1703642	Drill Core	2.19		0.005	0.005
1703643	Split Core		AUL-19-34	81	82	1	1703643	Drill Core	2.51		0.008	0.008
1703644	Split Core		AUL-19-34	82	83	1	1703644	Drill Core	1.89		0.006	0.006
1703645	Split Core		AUL-19-34	83	84	1	1703645	Drill Core	2.58		0.006	0.006
1703646	Split Core		AUL-19-34	84	85	1	1703646	Drill Core	2.54		0.033	0.033
1703647	Split Core		AUL-19-34	85	86	1	1703647	Drill Core	2.44		0.027	0.027

Samples

1703648	Split Core		AUL-19-34	102	103	1	1703648	Drill Core	2.71		0.008	0.008
1703649	Split Core	DUP	AUL-19-34	104.47	105	0.53	1703649	Drill Core	0.53		0.027	0.027
1703650	1/4 Core	DUP					1703650	Drill Core	0.65		0.007	0.007
1703651	Split Core		AUL-19-34	105	106	1	1703651	Drill Core	2.26		0.007	0.007
1703652	Split Core		AUL-19-34	106	107	1	1703652	Drill Core	2.38	<0.005		0.0025
1703653	Split Core		AUL-19-34	108.9	109.2	0.3	1703653	Drill Core	1.39		0.006	0.006
1703654	Split Core		AUL-19-34	113	114	1	1703654	Drill Core	3.01		0.011	0.011
1703655	Split Core		AUL-19-34	114	115	1	1703655	Drill Core	2.17	<0.005		0.0025
1703656	Split Core		AUL-19-34	115	116	1	1703656	Drill Core	2.38	<0.005		0.0025
1703657	Split Core		AUL-19-34	116	117	1	1703657	Drill Core	1.96	<0.005		0.0025
1703658	Split Core		AUL-19-34	117	118	1	1703658	Drill Core	2.52	<0.005		0.0025
1703659	Split Core		AUL-19-34	118	119	1	1703659	Drill Core	2.55	<0.005		0.0025
1703660	Standard	216					1703660	Pulp	0.06		6.436	6.436
1703661	Split Core		AUL-19-34	119	120	1	1703661	Drill Core	2.6	<0.005		0.0025
1703662	Split Core		AUL-19-34	120	121	1	1703662	Drill Core	2	<0.005		0.0025
1703663	Split Core		AUL-19-34	121	122	1	1703663	Drill Core	2.48	<0.005		0.0025
1703664	Split Core		AUL-19-34	122	123	1	1703664	Drill Core	2.2	<0.005		0.0025
1703665	Split Core		AUL-19-34	123	124	1	1703665	Drill Core	2.95	<0.005		0.0025
1703666	Split Core		AUL-19-34	124	125	1	1703666	Drill Core	2.7	<0.005		0.0025
1703667	Split Core		AUL-19-34	125	126	1	1703667	Drill Core	2.43	<0.005		0.0025
1703668	Split Core		AUL-19-34	126	127	1	1703668	Drill Core	2.4	<0.005		0.0025
1703669	Split Core		AUL-19-34	127	128	1	1703669	Drill Core	2.38	<0.005		0.0025
1703670	Split Core		AUL-19-34	128	129	1	1703670	Drill Core	2.19	<0.005		0.0025
1703671	Split Core		AUL-19-34	129	130	1	1703671	Drill Core	2.46	<0.005		0.0025
1703672	Split Core		AUL-19-34	130	131	1	1703672	Drill Core	2.14	<0.005		0.0025
1703673	Split Core		AUL-19-34	131	132	1	1703673	Drill Core	2.2	<0.005		0.0025
1703674	Split Core	DUP	AUL-19-34	132	133	1	1703674	Drill Core	0.91		0.008	0.008
1703675	1/4 Core	DUP					1703675	Drill Core	0.82		0.006	0.006
1703676	Split Core		AUL-19-34	133	134	1	1703676	Drill Core	1.99		0.007	0.007
1703677	Split Core		AUL-19-34	134	135	1	1703677	Drill Core	2.08	<0.005		0.0025
1703678	Split Core		AUL-19-34	135	136	1	1703678	Drill Core	2.5	<0.005		0.0025
1703679	Split Core		AUL-19-34	136	137	1	1703679	Drill Core	2.36	<0.005		0.0025
1703680	Split Core		AUL-19-34	137	138	1	1703680	Drill Core	2.06	<0.005		0.0025
1703681	Split Core		AUL-19-34	138	139	1	1703681	Drill Core	2.34	<0.005		0.0025

Samples

1703682	Split Core		AUL-19-34	139	140	1	1703682	Drill Core	2.22	<0.005		0.0025
1703683	Split Core		AUL-19-34	140	141	1	1703683	Drill Core	2.34	<0.005		0.0025
1703684	Split Core		AUL-19-34	141	142	1	1703684	Drill Core	2.25	<0.005		0.0025
1703685	Standard	217					1703685	Pulp	0.06		0.324	0.324
1703686	Split Core		AUL-19-34	142	143	1	1703686	Drill Core	2.35	<0.005		0.0025
1703687	Split Core		AUL-19-34	143	144	1	1703687	Drill Core	2.28	<0.005		0.0025
1703688	Split Core		AUL-19-34	155.5	156.5	1	1703688	Drill Core	2.18	<0.005		0.0025
1703689	Split Core		AUL-19-34	156.5	157.5	1	1703689	Drill Core	2.25	<0.005		0.0025
1703690	Blank	BLANK					1703690	Rock	0.34	<0.005		0.0025
1703691	Split Core		AUL-19-34	157.5	158	0.5	1703691	Drill Core	1.27		0.007	0.007
1703692	Split Core		AUL-19-34	158	159	1	1703692	Drill Core	1.82	<0.005		0.0025
1703693	Split Core		AUL-19-34	159	160	1	1703693	Drill Core	1.96	<0.005		0.0025
1703694	Split Core		AUL-19-34	181	182	1	1703694	Drill Core	1.96	<0.005		0.0025
1703695	Split Core		AUL-19-34	182	183	1	1703695	Drill Core	1.87	<0.005		0.0025
1703696	Split Core		AUL-19-34	183	184	1	1703696	Drill Core	2.21	<0.005		0.0025
1703697	Split Core		AUL-19-34	184	185	1	1703697	Drill Core	2.47	<0.005		0.0025
1703698	Split Core		AUL-19-34	185	186	1	1703698	Drill Core	1.72	<0.005		0.0025
1703699	Split Core	DUP	AUL-19-34	186	187	1	1703699	Drill Core	1.02	<0.005		0.0025
1703700	1/4 Core	DUP					1703700	Drill Core	0.83	<0.005		0.0025
1703701	Split Core		AUL-19-34	187	188	1	1703701	Drill Core	2.23	<0.005		0.0025
1703702	Split Core		AUL-19-34	188	189	1	1703702	Drill Core	2.26	<0.005		0.0025
1703703	Split Core		AUL-19-34	189	190	1	1703703	Drill Core	1.33	<0.005		0.0025
1703704	Split Core		AUL-19-34	190	191	1	1703704	Drill Core	1.17	<0.005		0.0025
1703705	Split Core		AUL-19-34	191	192	1	1703705	Drill Core	2.2	<0.005		0.0025
1703706	Split Core		AUL-19-34	192	193	1	1703706	Drill Core	2.17	<0.005		0.0025
1703707	Split Core		AUL-19-34	193	194	1	1703707	Drill Core	2.78	<0.005		0.0025
1703708	Split Core		AUL-19-34	194	195	1	1703708	Drill Core	2.22	<0.005		0.0025
1703709	Split Core		AUL-19-34	195	196	1	1703709	Drill Core	2.54	<0.005		0.0025
1703710	Standard	216					1703710	Pulp	0.06		6.428	6.428
1703711	Split Core		AUL-19-34	196.0	197	1	1703711	Drill Core	2.59	<0.005		0.0025
1703712	Split Core		AUL-19-34	197.0	198	1	1703712	Drill Core	2.17	<0.005		0.0025
1703713	Split Core		AUL-19-34	198.0	199	1	1703713	Drill Core	2.42	<0.005		0.0025
1703714	Split Core		AUL-19-34	208.0	209	1	1703714	Drill Core	2.4	<0.005		0.0025
1703715	Split Core		AUL-19-34	209.0	209.75	0.75	1703715	Drill Core	1.27	<0.005		0.0025

Samples

1703716	Split Core		AUL-19-34	209.8	210	0.25	1703716	Drill Core	0.99	<0.005		0.0025
1703717	Split Core		AUL-19-34	210.0	211	1	1703717	Drill Core	2.4	<0.005		0.0025
1703718	Split Core		AUL-19-34	211.0	212	1	1703718	Drill Core	2.4	<0.005		0.0025
1703719	Split Core		AUL-19-34	212.0	213	1	1703719	Drill Core	2.5	<0.005		0.0025
1703720	Split Core		AUL-19-34	213.0	214	1	1703720	Drill Core	2.48	<0.005		0.0025
1703721	Split Core		AUL-19-34	214.0	214.7	0.7	1703721	Drill Core	1.92	<0.005		0.0025
1703722	Split Core		AUL-19-34	214.7	215	0.3	1703722	Drill Core	0.83	<0.005		0.0025
1703723	Split Core		AUL-19-34	215.0	216	1	1703723	Drill Core	1.86	<0.005		0.0025
1703724	Split Core	DUP	AUL-19-34	216.0	217	1	1703724	Drill Core	1.02	<0.005		0.0025
1703725	1/4 Core	DUP					1703725	Drill Core	1.15	<0.005		0.0025
1703726	Split Core		AUL-19-34	217.0	218	1	1703726	Drill Core	2.19	<0.005		0.0025
1703727	Split Core		AUL-19-34	218.0	218.4	0.4	1703727	Drill Core	0.83	<0.005		0.0025
1703728	Split Core		AUL-19-34	218.4	219	0.6	1703728	Drill Core	1.11	<0.005		0.0025
1703729	Split Core		AUL-19-34	219.0	220	1	1703729	Drill Core	2.49	<0.005		0.0025
1703730	Split Core		AUL-19-34	220.0	221	1	1703730	Drill Core	2.36	<0.005		0.0025
1703731	Split Core		AUL-19-34	221.0	222	1	1703731	Drill Core	2.06	<0.005		0.0025
1703732	Split Core		AUL-19-34	222.0	223	1	1703732	Drill Core	2.41	<0.005		0.0025
1703733	Split Core		AUL-19-34	223.0	224	1	1703733	Drill Core	2.28	<0.005		0.0025
1703734	Split Core		AUL-19-34	224.0	225	1	1703734	Drill Core	2.11	<0.005		0.0025
1703735	Standard	217					1703735	Pulp	0.06		0.329	0.329
1703736	Split Core		AUL-19-34	225.0	226	1	1703736	Drill Core	2.24	<0.005		0.0025
1703737	Split Core		AUL-19-34	226.0	227	1	1703737	Drill Core	2.67	<0.005		0.0025
1703738	Split Core		AUL-19-34	227.0	228	1	1703738	Drill Core	2.17	<0.005		0.0025
1703739	Split Core		AUL-19-34	234.0	234.5	0.5	1703739	Drill Core	0.99	<0.005		0.0025
1703740	Blank	BLANK					1703740	Rock	0.34	<0.005		0.0025
1703741	Split Core		AUL-19-34	274.0	275	1	1703741	Drill Core	1.52	<0.005		0.0025
1703742	Split Core		AUL-19-34	275.0	276	1	1703742	Drill Core	2.19	<0.005		0.0025
1703743	Split Core		AUL-19-34	276.0	277	1	1703743	Drill Core	2.24	<0.005		0.0025
1703744	Split Core		AUL-19-34	277.0	278	1	1703744	Drill Core	2.37	<0.005		0.0025
1703745	Split Core		AUL-19-34	278.0	279	1	1703745	Drill Core	2.5	<0.005		0.0025
1703746	Split Core		AUL-19-34	279.0	280	1	1703746	Drill Core	2.59	<0.005		0.0025
1703747	Split Core		AUL-19-34	280.0	281	1	1703747	Drill Core	2.29	<0.005		0.0025
1703748	Split Core		AUL-19-34	281.0	282	1	1703748	Drill Core	1.64	<0.005		0.0025
1703749	Split Core	DUP	AUL-19-34	282.0	283	1	1703749	Drill Core	0.64	<0.005		0.0025

Samples

1703750	1/4 Core	DUP					1703750	Drill Core	0.88		0.006	0.006
1703751	Split Core		AUL-19-34	283.0	284	1	1703751	Drill Core	2.13	<0.005		0.0025
1703752	Split Core		AUL-19-34	284.0	285	1	1703752	Drill Core	2.07	<0.005		0.0025
1703753	Split Core		AUL-19-34	285.0	286	1	1703753	Drill Core	2.24	<0.005		0.0025
1703754	Split Core		AUL-19-34	286.0	287	1	1703754	Drill Core	1.91	<0.005		0.0025
1703755	Split Core		AUL-19-34	287.0	288	1	1703755	Drill Core	2.39	<0.005		0.0025
1703756	Split Core		AUL-19-34	288.0	289	1	1703756	Drill Core	2.36		0.005	0.005
1703757	Split Core		AUL-19-34	289.0	290	1	1703757	Drill Core	2.24		0.005	0.005
1703758	Split Core		AUL-19-34	290.0	291	1	1703758	Drill Core	1.97	<0.005		0.0025
1703759	Split Core		AUL-19-34	291.0	291.25	0.25	1703759	Drill Core	1.66		0.007	0.007
1703760	Standard	216					1703760	Pulp	0.06		6.497	6.497
1703761	Split Core		AUL-19-34	291.3	291.75	0.5	1703761	Drill Core	0.66		0.036	0.036
1703762	Split Core		AUL-19-34	291.8	292.25	0.5	1703762	Drill Core	0.76	<0.005		0.0025
1703763	Split Core		AUL-19-34	292.3	292.75	0.5	1703763	Drill Core	0.92		0.018	0.018
1703764	Split Core		AUL-19-34	292.8	293.5	0.75	1703764	Drill Core	1.91	<0.005		0.0025
1703765	Split Core		AUL-19-34	293.5	294.5	1	1703765	Drill Core	1.83	<0.005		0.0025
1703766	Split Core		AUL-19-34	294.5	295.5	1	1703766	Drill Core	3.14	<0.005		0.0025
1703767	Split Core		AUL-19-34	295.5	296.5	1	1703767	Drill Core	1.9	<0.005		0.0025
1703768	Split Core		AUL-19-34	296.5	297.5	1	1703768	Drill Core	2.51		0.041	0.041
1703769	Split Core		AUL-19-34	297.5	298.5	1	1703769	Drill Core	0.88		0.039	0.039
1703770	Split Core		AUL-19-34	298.5	299.5	1	1703770	Drill Core	2.07	<0.005		0.0025
1703771	Split Core		AUL-19-34	299.5	300	0.5	1703771	Drill Core	2.33		0.046	0.046

Header

	LOCATION (NAD83 17N)					PLANNED	
DDH ID	**XCOLLAR**	**YCOLLAR**	**ZCOLLAR**	**DEPTH**	**ROCK**	**BRG**	**DIP**
AUL-19-35	592709	5483235	281	150	111	180	-50
	Legacy	Cell					
Claim Number	4246490	237535					

Purpose To test results in historical holes MOV-84-10/MOV-85-28 as well as 262-86-8, 25m to the west

Result Zone intersected although relatively low-grade compared to previous results

Start date 2019-03-15

End date 2019-03-16

Drill Contractor NOREX

Logged By Scott Zelligan

Description

BHID	FROM	TO	LENGTH	LITHO	SIMPLIFIED	Comment
AUL-19-35	0	39	39	OVB	OVB	Not recovered
AUL-19-35	39	60.6	21.6	IF	IF	Fine-grained, strongly banded, white-ish "cherty" bands interbedded with darker bands. Intermittent magnetite layers. Intermittent wavy bands.
AUL-19-35	60.6	88.9	28.3	TUFF	TUFF	Fine-grained, bands of medium-gray, dark grey, greenish-beige, strongly banded/foliated, intermittent sericite/bleaching alteration bands. Due to alteration difficult to determine whether tuffaceous or argillitic
AUL-19-35	88.9	90	1.1	QValt	QV	Multiple milky white quartz veins within banded sequence.
AUL-19-35	90	110.7	20.7	TUFF	TUFF	Fine-grained, dominantly dark grey, bands of greenish grey, strongly banded/foliated, intermittent sericite/bleaching alteration bands. Due to alteration difficult to determine whether tuffaceous or argillitic
AUL-19-35	110.7	110.8	0.1	MS	MS	Massive pyrite layer/band
AUL-19-35	110.8	111.7	0.9	TUFF	TUFF	Fine-grained, dominantly dark grey, bands of greenish grey, strongly banded/foliated, intermittent sericite/bleaching alteration bands. Due to alteration difficult to determine whether tuffaceous or argillitic
AUL-19-35	111.7	111.75	0.05	MS	MS	Massive pyrite layer/band
AUL-19-35	111.75	114.5	2.75	TUFF	TUFF	Fine-grained, dominantly dark grey, bands of greenish grey, strongly banded/foliated, intermittent sericite/bleaching alteration bands. Due to alteration difficult to determine whether tuffaceous or argillitic
AUL-19-35	114.5	114.8	0.3	QValt	QV	Quartz stringers, mottled white, possible infilling of broken bed top(?)
AUL-19-35	114.8	124	9.2	TUFF	TUFF	Fine-grained, dominantly dark grey, bands of greenish grey, strongly banded/foliated, intermittent sericite/bleaching alteration bands. Due to alteration difficult to determine whether tuffaceous or argillitic
AUL-19-35	124	150	26	TUFFser	TUFF	Fine- to medium-grained, lightly coloured (beige) with greenish-beige bands, strongly banded/foliated, intermittent sericite alteration bands. Intermittent mottled quartz veining.

Mineralization

BHID	FROM	TO	LENGTH	PY_PER	ASP_PER	TOTAL_PER	STYLE	Comments
AUL-19-35	110.7	110.8	0.1	50		50	MASSIVE	
AUL-19-35	111.7	111.75	0.05	50		50	MASSIVE	

Quartz-Carb

BHID	FROM	TO	LENGTH	NUMPERM	TYPE	Comment
AUL-19-35	88.9	90	1.1	5	VEINS	Multiple milky white quartz veins within banded sequence.
AUL-19-35	114.5	114.8	0.3	3	VEINS	Quartz stringers, mottled white, possible infilling of broken bed top(?)
AUL-19-35	120	122.4	2.4	5	VEINS/STRI	Quartz stringers, mottled white, possible infilling of broken bed top(?)
AUL-19-35	124	150	26	5	STRINGERS	Stringers and thin veinlets within banded tuff sequence, mostly parallel to banding

Structure

BHID	FROM	TO	LENGTH	Deg to CA	STRUCTURE	Comment
AUL-19-35	39	61	22		BROKEN	Broken interval, intermittent hematitic alteration
AUL-19-35	66.5	72	5.5		BROKEN	Broken interval

Alteration

BHID	FROM	TO	LENGTH	ALTERATION	Comments
AUL-19-35	39	53	14	Hematite	On fractures/over broken intervals
AUL-19-35	63	105	42	Sericite	Intermittent weak to moderate sericite alteration
AUL-19-35	124	133	9	Sericite	Weak to moderate sericite alteration

RQD

BHID	FROM	TO	LENGTH	RECOVERY	REC_PER	RQD	RQD_PER	Comments
AUL-19-35	39.00	42.00	3.00	0.19	6%	0.00	0%	
AUL-19-35	42.00	45.00	3.00	0.45	15%	0.00	0%	
AUL-19-35	45.00	48.00	3.00	1.26	42%	0.20	16%	
AUL-19-35	48.00	51.00	3.00	1.79	60%	0.12	7%	
AUL-19-35	51.00	54.00	3.00	2.62	87%	0.20	8%	
AUL-19-35	54.00	57.00	3.00	0.97	32%	0.00	0%	
AUL-19-35	57.00	60.00	3.00	2.30	77%	0.56	24%	
AUL-19-35	60.00	63.00	3.00	2.36	79%	1.19	50%	
AUL-19-35	63.00	66.00	3.00	2.40	80%	0.84	35%	
AUL-19-35	66.00	69.00	3.00	1.28	43%	0.47	37%	
AUL-19-35	69.00	72.00	3.00	1.03	34%	0.16	16%	
AUL-19-35	72.00	75.00	3.00	2.58	86%	0.93	36%	
AUL-19-35	75.00	78.00	3.00	2.89	96%	2.16	75%	
AUL-19-35	78.00	81.00	3.00	2.83	94%	2.07	73%	
AUL-19-35	81.00	84.00	3.00	2.80	93%	2.43	87%	
AUL-19-35	84.00	87.00	3.00	2.97	99%	2.26	76%	
AUL-19-35	87.00	90.00	3.00	2.99	100%	2.26	76%	
AUL-19-35	90.00	93.00	3.00	2.87	96%	2.19	76%	
AUL-19-35	93.00	96.00	3.00	3.05	102%	2.51	82%	
AUL-19-35	96.00	99.00	3.00	3.00	100%	2.67	89%	
AUL-19-35	99.00	102.00	3.00	3.02	101%	2.73	90%	
AUL-19-35	102.00	105.00	3.00	2.96	99%	2.73	92%	
AUL-19-35	105.00	108.00	3.00	2.80	93%	2.22	79%	
AUL-19-35	108.00	111.00	3.00	2.99	100%	2.23	75%	
AUL-19-35	111.00	114.00	3.00	2.87	96%	2.25	78%	
AUL-19-35	114.00	117.00	3.00	2.99	100%	2.44	82%	
AUL-19-35	117.00	120.00	3.00	2.80	93%	2.49	89%	
AUL-19-35	120.00	123.00	3.00	3.03	101%	2.38	79%	
AUL-19-35	123.00	126.00	3.00	2.82	94%	1.56	55%	
AUL-19-35	126.00	129.00	3.00	3.05	102%	2.33	76%	
AUL-19-35	129.00	132.00	3.00	2.99	100%	2.58	86%	
AUL-19-35	132.00	135.00	3.00	2.98	99%	2.50	84%	
AUL-19-35	135.00	138.00	3.00	2.78	93%	2.50	90%	
AUL-19-35	138.00	141.00	3.00	2.86	95%	2.61	91%	
AUL-19-35	141.00	144.00	3.00	3.06	102%	2.78	91%	
AUL-19-35	144.00	147.00	3.00	2.94	98%	2.40	82%	
AUL-19-35	147.00	150.00	3.00	3.04	101%	2.33	77%	
			111.00	92.61	83%	64.28	69%	

Survey

BHID	AT	BRG	DIP	Mag Field	Meas Azi	Use Az	Use Dip	Device	Comments
AUL-19-35	78	183.3	-49.9	5660	196.3	Yes	Yes	Reflex EZ-Shot	
AUL-19-35	129	183.2	-48.6	5595	196.2	Yes	Yes	Reflex EZ-Shot	
AUL-19-35	150	182.8	-47.8	5598	195.8	Yes	Yes	Reflex EZ-Shot	

Samples

Sample Number	Type	QAQC	BHID	FROM	TO	LENGTH			SAMPLE WEIGHT	Au PPM (FA430) - Lab	Au GMT	Au Final
1703781	Split Core		AUL-19-35	61	63	2	1703781	Drill Core	3.2	0.008		0.008
1703782	Split Core		AUL-19-35	63	64	1	1703782	Drill Core	1.61	0.008		0.008
1703783	Split Core		AUL-19-35	64	65	1	1703783	Drill Core	1.93	0.005		0.005
1703784	Split Core		AUL-19-35	65	69	4	1703784	Drill Core	2.76	0.008		0.008
1703785	Standard	217					1703785	Pulp	0.06	0.322		0.322
1703786	Split Core		AUL-19-35	72	73	1	1703786	Drill Core	1.61	0.023		0.023
1703787	Split Core		AUL-19-35	73	74	1	1703787	Drill Core	2.25	2.321		2.321
1703788	Split Core		AUL-19-35	74	75	1	1703788	Drill Core	1.42	2.233		2.233
1703789	Split Core		AUL-19-35	75	76	1	1703789	Drill Core	2.25	0.11		0.11
1703790	Blank	BLANK					1703790	Rock	0.41	<0.005		0.0025
1703791	Split Core		AUL-19-35	76	76.75	0.75	1703791	Drill Core	1.2	0.031		0.031
1703792	Split Core		AUL-19-35	76.75	77.25	0.5	1703792	Drill Core	1.07	0.1		0.1
1703793	Split Core		AUL-19-35	77.25	78	0.75	1703793	Drill Core	1.35	0.576		0.576
1703794	Split Core		AUL-19-35	78	78.75	0.75	1703794	Drill Core	1.79	0.504		0.504
1703795	Split Core		AUL-19-35	78.75	79.25	0.5	1703795	Drill Core	1.02	0.061		0.061
1703796	Split Core		AUL-19-35	79.25	80	0.75	1703796	Drill Core	1.53	0.104		0.104
1703797	Split Core		AUL-19-35	80	81	1	1703797	Drill Core	2.31	0.008		0.008
1703798	Split Core		AUL-19-35	81	82	1	1703798	Drill Core	1.7	0.007		0.007
1703799	Split Core	DUP	AUL-19-35	82	83	1	1703799	Drill Core	0.81	0.005		0.005
1703800	1/4 Core	DUP					1703800	Drill Core	1.12	0.007		0.007
1703801	Split Core		AUL-19-35	83	84	1	1703801	Drill Core	1.8	0.008		0.008
1703802	Split Core		AUL-19-35	84	85	1	1703802	Drill Core	2.02	0.015		0.015
1703803	Split Core		AUL-19-35	85	85.75	0.75	1703803	Drill Core	1.97	0.025		0.025
1703804	Split Core		AUL-19-35	85.75	86.25	0.5	1703804	Drill Core	1.21	0.044		0.044
1703805	Split Core		AUL-19-35	86.25	87	0.75	1703805	Drill Core	1.84	0.006		0.006
1703806	Split Core		AUL-19-35	87	88	1	1703806	Drill Core	2.25	0.008		0.008
1703807	Split Core		AUL-19-35	88	88.75	0.75	1703807	Drill Core	1.7	0.044		0.044
1703808	Split Core		AUL-19-35	88.75	89.06	0.31	1703808	Drill Core	0.67	0.013		0.013
1703809	Split Core		AUL-19-35	89.06	89.36	0.3	1703809	Drill Core	0.59	0.011		0.011
1703810	Standard	216					1703810	Pulp	0.07	6.406		6.406
1703811	Split Core		AUL-19-35	89.36	90	0.64	1703811	Drill Core	1.28	0.006		0.006
1703812	Split Core		AUL-19-35	90	91	1	1703812	Drill Core	2.17	<0.005		0.0025
1703813	Split Core		AUL-19-35	91	91.3	0.3	1703813	Drill Core	0.62	0.006		0.006

Samples

1703814	Split Core		AUL-19-35	91.3	92	0.7	1703814	Drill Core	1.86	<0.005		0.0025
1703815	Split Core		AUL-19-35	92	93	1	1703815	Drill Core	1.88		0.012	0.012
1703816	Split Core		AUL-19-35	93	94	1	1703816	Drill Core	2.51		0.007	0.007
1703817	Split Core		AUL-19-35	94	95	1	1703817	Drill Core	2.33		0.008	0.008
1703818	Split Core		AUL-19-35	95	96	1	1703818	Drill Core	2.21		0.008	0.008
1703819	Split Core		AUL-19-35	96	97	1	1703819	Drill Core	2.27		0.009	0.009
1703820	Split Core		AUL-19-35	97	98	1	1703820	Drill Core	2.14		0.008	0.008
1703821	Split Core		AUL-19-35	98	99	1	1703821	Drill Core	2.5		0.007	0.007
1703822	Split Core		AUL-19-35	99	100	1	1703822	Drill Core	2.38		0.034	0.034
1703823	Split Core		AUL-19-35	100	101	1	1703823	Drill Core	2.44		0.075	0.075
1703824	Split Core	DUP	AUL-19-35	101	102	1	1703824	Drill Core	0.88		0.976	0.976
1703825	1/4 Core	DUP					1703825	Drill Core	0.99		0.304	0.304
1703826	Split Core		AUL-19-35	102	103	1	1703826	Drill Core	2.4		0.017	0.017
1703827	Split Core		AUL-19-35	103	104	1	1703827	Drill Core	2.19		0.016	0.016
1703828	Split Core		AUL-19-35	104	105	1	1703828	Drill Core	2.16		0.118	0.118
1703829	Split Core		AUL-19-35	105	106	1	1703829	Drill Core	2.27		0.012	0.012
1703830	Split Core		AUL-19-35	106	107	1	1703830	Drill Core	2.11		0.007	0.007
1703831	Split Core		AUL-19-35	107	108	1	1703831	Drill Core	1.62		0.017	0.017
1703832	Split Core		AUL-19-35	108	109	1	1703832	Drill Core	1.98	<0.005		0.0025
1703833	Split Core		AUL-19-35	109	110	1	1703833	Drill Core	2.34		0.006	0.006
1703834	Split Core		AUL-19-35	110	110.57	0.57	1703834	Drill Core	1.28		0.007	0.007
1703835	Standard	217					1703835	Pulp	0.07		0.327	0.327
1703836	Split Core		AUL-19-35	110.57	110.86	0.29	1703836	Drill Core	0.62	<0.005		0.0025
1703837	Split Core		AUL-19-35	110.86	111.53	0.67	1703837	Drill Core	1.17		0.008	0.008
1703838	Split Core		AUL-19-35	111.53	111.83	0.3	1703838	Drill Core	0.56		0.005	0.005
1703839	Split Core		AUL-19-35	111.83	113	1.17	1703839	Drill Core	2.2		0.007	0.007
1703840	Blank	BLANK					1703840	Rock	0.23	<0.005		0.0025
1703841	Split Core		AUL-19-35	113	114	1	1703841	Drill Core	2.62	<0.005		0.0025
1703842	Split Core		AUL-19-35	114	114.45	0.45	1703842	Drill Core	0.65		0.007	0.007
1703843	Split Core		AUL-19-35	114.45	114.74	0.29	1703843	Drill Core	0.98		0.007	0.007
1703844	Split Core		AUL-19-35	114.74	116	1.26	1703844	Drill Core	2.13		0.013	0.013
1703845	Split Core		AUL-19-35	116	117	1	1703845	Drill Core	1.96		0.011	0.011
1703846	Split Core		AUL-19-35	117	118	1	1703846	Drill Core	2.13		0.018	0.018
1703847	Split Core		AUL-19-35	118	120	2	1703847	Drill Core	3.91		0.013	0.013

Samples

1703848	Split Core		AUL-19-35	120	120.5	0.5	1703848	Drill Core	1.17		0.011	0.011
1703849	Split Core	DUP	AUL-19-35	120.5	121.4	0.9	1703849	Drill Core	0.85		0.011	0.011
1703850	1/4 Core	DUP					1703850	Drill Core	0.97		0.011	0.011
1703851	Split Core		AUL-19-35	121.4	122	0.6	1703851	Drill Core	1.42		0.008	0.008
1703852	Split Core		AUL-19-35	122	123	1	1703852	Drill Core	2.88	<0.005		0.0025
1703853	Split Core		AUL-19-35	123	123.92	0.92	1703853	Drill Core	1.23		0.007	0.007
1703854	Split Core		AUL-19-35	123.92	124.33	0.41	1703854	Drill Core	0.9		0.006	0.006
1703855	Split Core		AUL-19-35	124.33	125	0.67	1703855	Drill Core	1.28		0.008	0.008
1703856	Split Core		AUL-19-35	125	126	1	1703856	Drill Core	2.19		0.008	0.008
1703857	Split Core		AUL-19-35	126	127	1	1703857	Drill Core	2.18		0.008	0.008
1703858	Split Core		AUL-19-35	127	128	1	1703858	Drill Core	2.15		0.031	0.031
1703859	Split Core		AUL-19-35	128	129	1	1703859	Drill Core	2.46		0.011	0.011
1703860	Standard	216					1703860	Pulp	0.07		6.568	6.568
1703861	Split Core		AUL-19-35	129	130	1	1703861	Drill Core	2.16		0.012	0.012
1703862	Split Core		AUL-19-35	135	136	1	1703862	Drill Core	2.67		0.007	0.007
1703863	Split Core		AUL-19-35	137.5	138.5	1	1703863	Drill Core	2.09	<0.005		0.0025
1703864	Split Core		AUL-19-35	138.5	139.5	1	1703864	Drill Core	2.42	<0.005		0.0025
1703865	Split Core		AUL-19-35	139.5	140.5	1	1703865	Drill Core	2.51	<0.005		0.0025
1703866	Split Core		AUL-19-35	142	143	1	1703866	Drill Core	2.41	<0.005		0.0025
1703867	Split Core		AUL-19-35	143	144	1	1703867	Drill Core	2.39	<0.005		0.0025
1703868	Split Core		AUL-19-35	144	145	1	1703868	Drill Core	2.71	<0.005		0.0025
1703869	Split Core		AUL-19-35	145	146	1	1703869	Drill Core	2.42	<0.005		0.0025
1703870	Split Core		AUL-19-35	146	147	1	1703870	Drill Core	2.76	<0.005		0.0025
1703871	Split Core		AUL-19-35	147	147.4	0.4	1703871	Drill Core	0.6	<0.005		0.0025
1703872	Split Core		AUL-19-35	147.4	148.3	0.9	1703872	Drill Core	2.3	<0.005		0.0025
1703873	Split Core		AUL-19-35	148.3	149	0.7	1703873	Drill Core	1.72	<0.005		0.0025

Header

	LOCATION (NAD83 17N)					PLANNED	
DDH ID	**XCOLLAR**	**YCOLLAR**	**ZCOLLAR**	**DEPTH**	**ROCK**	**BRG**	**DIP**
AUL-19-36	592279	5483246	283	252	204	180	-55
	Legacy	Cell					
Claim Number	3019086	311282					

Purpose	To test main zone on section between AUL-18-07 and AUL-18-19
Result	Main zone intersected but not as expected. Narrower with only small high-grade intersection
Start date	2019-03-16
End date	2019-03-18
Drill Contractor	NOREX
Logged By	Scott Zelligan

Description

BHID	FROM	TO	LENGTH	LITHO	SIMPLIFIED	Comment
AUL-19-36	0	48.00	48	OVB	OVB	Not recovered, white granitic among recovered fragments.
AUL-19-36	48	60.55	12.55	ARG	ARG	Massive textured, intermittent banding, dark grey with intermittent hematite staining on fractures, intermittent quartz-carbonate stringers.
AUL-19-36	60.55	60.75	0.2	QV	QV	Massive white mottled quartz vein, possibly infilling bed top.
AUL-19-36	60.75	66.80	6.05	ARG	ARG	Massive textured, intermittent banding, dark grey with intermittent hematite staining on fractures, intermittent quartz-carbonate stringers.
AUL-19-36	66.8	67.00	0.2	GOUGE	GOUGE	Rusty, saprolitic gouge interval, semi-consolidated/congealed
AUL-19-36	67	103.70	36.7	ARG	ARG	Massive textured grading to fine-grained banded. Intermittent strong banding, dark grey alternating with light grey bands, intermittent quartz-carbonate stringers mostly parallel to banding. Several "bed tops" with stronger alteration (sericite?) and more frequent quartz-carbonate infill veining. Intermittent 1-2m intervals of disseminated cubic pyrite (<1%).
AUL-19-36	103.7	131.85	28.15	ARG	ARG	Similar to above, but overall lighter in colour
AUL-19-36	131.85	143.30	11.45	ARG	ARG	Continuation of above unit, darker in colour. Increased quartz-carbonate veining towards end of unit.
AUL-19-36	143.3	143.50	0.2	GOUGE	GOUGE	Broken/gouge interval.
AUL-19-36	143.5	147.75	4.25	FLThea	FLThea	Appears to be helaed fault with fragments of argillite, infilled with massive white and mottled white-grey quartz veining, minor sulphides (veinlets and disseminated).
AUL-19-36	147.75	151.37	3.62	MZsulf	MZLOW	Quartz veining, intermittent coarse-grained pyrite veins/bands, partially replaced by arsenopyrite
AUL-19-36	151.37	152.60	1.23	MZsulf	MZHI	Quartz veining, intermittent coarse-grained pyrite veins/bands, partially replaced by arsenopyrite
AUL-19-36	152.6	153.30	0.7	MZsulf	MZLOW	Quartz veining, intermittent coarse-grained pyrite veins/bands, partially replaced by arsenopyrite
AUL-19-36	153.3	155.50	2.2	BLCHtuff	BLCHtuff	Sericite altered, quartz-carbonate veined, bleached quartz-phyric tuff
AUL-19-36	155.5	176.00	20.5	QPtuff	QPtuff	Banded, fine to medium-grained quartz-phyric tuff, intermittent quartz-carbonate stringers.
AUL-19-36	176	186.15	10.15	QPtuff	QPtuff	Similar to previous unit, darker in colour
AUL-19-36	186.15	224.30	38.15	QPtuff	QPtuff	Banded, fine to medium-grained quartz-phyric tuff, intermittent quartz-carbonate stringers. Several apparent "bed tops" with quartz-carbonate infill.
AUL-19-36	224.30	243.8	19.5	QPtuff	QPtuff	Banded, fine to medium-grained quartz-phyric tuff, intermittent quartz-carbonate stringers. Increased sericite alteration, mostly increased in strongly altered 20-50cm bands.
AUL-19-36	243.8	244.20	0.4	FLThea	FLThea	Healed fault infilled with quartz-carbonate veining, or possible "bed top"?
AUL-19-36	244.2	252.00	7.8	QPtuff	QPtuff	Banded, fine to medium-grained quartz-phyric tuff, intermittent quartz-carbonate stringers.

Mineralization

BHID	FROM	TO	LENGTH	PY_PER	ASP_PER	TOTAL_PER	STYLE	Comments
AUL-19-36	147.75	151.37	3.62	5	0.5	5.5	PATCHY	
AUL-19-36	151.37	152.60	1.23	10	1	11	PATCHY	
AUL-19-36	152.6	153.30	0.7	5	0.5	5.5	PATCHY	

Quartz-Carb

BHID	FROM	TO	LENGTH	NUMPERM	TYPE	Comment
AUL-19-36	60.55	60.75	0.2	1	MASSIVE	Massive white mottled quartz vein, possibly infilling bed top.
AUL-19-36	67	103.70	36.7	5	STRINGERS	Intermittent
AUL-19-36	103.7	131.85	28.15	5	STRINGERS	
AUL-19-36	131.85	143.30	11.45	10	STRINGERS/INFILL	
AUL-19-36	143.5	153.30	9.8	10	FLThea	Massive white and mottled quartz veins infilling
AUL-19-36	153.3	160.00	6.7	4	VEINS	
AUL-19-36	160	243.00	83	3	STRINGERS	
AUL-19-36	243.8	245.80	2	10	STRINGERS/INFILL	
AUL-19-36	245.80	252.00	6.2	10	STRINGERS	

Structure

BHID	FROM	TO	LENGTH	Deg to CA	STRUCTURE	Comment
AUL-19-36	66.8	67.00	0.2		GOUGE	
AUL-19-36	143.3	143.50	0.2	80	GOUGE	
AUL-19-36	143.5	153.30	9.80	65	FLThea	
AUL-19-36	243.8	244.20	0.4	35	FLThea	

Alteration

BHID	FROM	TO	LENGTH	ALTERATION	Comments
AUL-19-36	48	60.55	12.55	HEMATITE	
AUL-19-36	152.6	155.50	2.90	SERICITE	Sericite altered/bleached footwall unit (qptuff)
AUL-19-36	224.30	243.8	19.5	SERICITE	Increased sericite alteration, mostly increased in strongly altered 20-50cm bands.

RQD

BHID	FROM	TO	LENGTH	RECOVERY	REC_PER	RQD	RQD_PER	Comments
AUL-19-36	48.00	51.00	3.00	2.35	78%	1.86	79%	
AUL-19-36	51.00	54.00	3.00	2.84	95%	1.84	65%	
AUL-19-36	54.00	57.00	3.00	2.83	94%	1.22	43%	
AUL-19-36	57.00	60.00	3.00	2.85	95%	0.96	34%	
AUL-19-36	60.00	63.00	3.00	3.00	100%	2.02	67%	
AUL-19-36	63.00	66.00	3.00	3.03	101%	2.23	74%	
AUL-19-36	66.00	69.00	3.00	2.87	96%	1.74	61%	
AUL-19-36	69.00	72.00	3.00	2.98	99%	2.48	83%	
AUL-19-36	72.00	75.00	3.00	3.00	100%	2.67	89%	
AUL-19-36	75.00	78.00	3.00	2.96	99%	2.41	81%	
AUL-19-36	78.00	81.00	3.00	2.94	98%	2.37	81%	
AUL-19-36	81.00	84.00	3.00	2.90	97%	1.88	65%	
AUL-19-36	84.00	87.00	3.00	3.02	101%	2.12	70%	
AUL-19-36	87.00	90.00	3.00	2.97	99%	2.29	77%	
AUL-19-36	90.00	93.00	3.00	2.94	98%	2.31	79%	
AUL-19-36	93.00	96.00	3.00	3.00	100%	2.61	87%	
AUL-19-36	96.00	99.00	3.00	2.92	97%	2.38	82%	
AUL-19-36	99.00	102.00	3.00	2.94	98%	2.62	89%	
AUL-19-36	102.00	105.00	3.00	3.01	100%	2.55	85%	
AUL-19-36	105.00	108.00	3.00	2.75	92%	1.48	54%	
AUL-19-36	108.00	111.00	3.00	1.85	62%	0.72	39%	
AUL-19-36	111.00	114.00	3.00	2.67	89%	2.26	85%	
AUL-19-36	114.00	117.00	3.00	3.00	100%	2.13	71%	
AUL-19-36	117.00	120.00	3.00	2.51	84%	1.46	58%	
AUL-19-36	120.00	123.00	3.00	2.91	97%	2.57	88%	
AUL-19-36	123.00	126.00	3.00	2.91	97%	2.47	85%	
AUL-19-36	126.00	129.00	3.00	3.06	102%	2.83	92%	
AUL-19-36	129.00	132.00	3.00	2.92	97%	2.92	100%	
AUL-19-36	132.00	135.00	3.00	2.98	99%	2.86	96%	
AUL-19-36	135.00	138.00	3.00	3.01	100%	2.95	98%	
AUL-19-36	138.00	141.00	3.00	2.95	98%	2.74	93%	
AUL-19-36	141.00	144.00	3.00	2.86	95%	2.44	85%	
AUL-19-36	144.00	147.00	3.00	3.01	100%	2.32	77%	
AUL-19-36	147.00	150.00	3.00	2.91	97%	2.68	92%	
AUL-19-36	150.00	153.00	3.00	3.06	102%	2.78	91%	
AUL-19-36	153.00	156.00	3.00	3.00	100%	2.92	97%	
AUL-19-36	156.00	159.00	3.00	2.99	100%	2.99	100%	
AUL-19-36	159.00	162.00	3.00	3.00	100%	2.67	89%	
AUL-19-36	162.00	165.00	3.00	3.00	100%	2.89	96%	
AUL-19-36	165.00	168.00	3.00	2.99	100%	2.88	96%	
AUL-19-36	168.00	171.00	3.00	2.91	97%	2.91	100%	
AUL-19-36	171.00	174.00	3.00	2.99	100%	2.77	93%	
AUL-19-36	174.00	177.00	3.00	2.97	99%	2.86	96%	
AUL-19-36	177.00	180.00	3.00	2.96	99%	2.68	91%	
AUL-19-36	180.00	183.00	3.00	2.96	99%	2.65	90%	
AUL-19-36	183.00	186.00	3.00	3.00	100%	2.98	99%	
AUL-19-36	186.00	189.00	3.00	3.07	102%	3.04	99%	
AUL-19-36	189.00	192.00	3.00	2.93	98%	2.77	95%	
AUL-19-36	192.00	195.00	3.00	2.95	98%	2.85	97%	

RQD

AUL-19-36	195.00	198.00	3.00	2.99	100%	2.99	100%
AUL-19-36	198.00	201.00	3.00	2.97	99%	2.73	92%
AUL-19-36	201.00	204.00	3.00	3.02	101%	2.78	92%
AUL-19-36	204.00	207.00	3.00	2.99	100%	2.93	98%
AUL-19-36	207.00	210.00	3.00	2.93	98%	2.80	96%
AUL-19-36	210.00	213.00	3.00	2.95	98%	1.38	47%
AUL-19-36	213.00	216.00	3.00	3.02	101%	2.93	97%
AUL-19-36	216.00	219.00	3.00	2.95	98%	2.81	95%
AUL-19-36	219.00	222.00	3.00	2.98	99%	2.91	98%
AUL-19-36	222.00	225.00	3.00	3.02	101%	2.86	95%
AUL-19-36	225.00	228.00	3.00	3.07	102%	3.07	100%
AUL-19-36	228.00	231.00	3.00	2.94	98%	2.81	96%
AUL-19-36	231.00	234.00	3.00	2.99	100%	2.75	92%
AUL-19-36	234.00	237.00	3.00	3.07	102%	2.95	96%
AUL-19-36	237.00	240.00	3.00	2.94	98%	2.87	98%
AUL-19-36	240.00	243.00	3.00	3.00	100%	2.88	96%
AUL-19-36	243.00	246.00	3.00	2.92	97%	2.73	93%
AUL-19-36	246.00	249.00	3.00	3.05	102%	2.84	93%
AUL-19-36	249.00	252.00	3.00	2.95	98%	2.66	90%
			204.00	199.18	98%	170.71	86%

Survey

BHID	AT	BRG	DIP	Mag Field	Meas Azi	Use Az	Use Dip	Device	Comments
AUL-19-36	63	180	-53.3	5730	193	Yes	Yes	Reflex EZ-Shot	
AUL-19-36	114	182.6	-52.5	5672	195.6	Yes	Yes	Reflex EZ-Shot	
AUL-19-36	165	181.8	-52	5636	194.8	Yes	Yes	Reflex EZ-Shot	
AUL-19-36	216	186.1	-51.7	5595	199.1	Yes	Yes	Reflex EZ-Shot	
AUL-19-36	252	186.1	-51.9	5577	199.1	Yes	Yes	Reflex EZ-Shot	

Samples

Sample Number	Type	QAQC	BHID	FROM	TO	LENGTH	SAMPLE WEIGHT	Au PPM (FA430) - Lab	Au GMT	Au Final
1703874	Split Core	DUP	AUL-19-36	49.56	51.33	1.77	1.07	<0.005		0.0025
1703875	1/4 Core	DUP					1.03	0.009		0.009
1703876	Split Core		AUL-19-36	59.14	60.43	1.29	2.32	0.015		0.015
1703877	Split Core		AUL-19-36	60.43	60.85	0.42	0.6	0.013		0.013
1703878	Split Core		AUL-19-36	60.85	61.77	0.92	1.85	0.008		0.008
1703879	Split Core		AUL-19-36	61.77	62.72	0.95	2.1	0.018		0.018
1703880	Split Core		AUL-19-36	71	71.35	0.35	0.89	0.01		0.01
1703881	Split Core		AUL-19-36	82.57	83	0.43	1.18	0.006		0.006
1703882	Split Core		AUL-19-36	131	131.76	0.76	1.6	0.011		0.011
1703883	Split Core		AUL-19-36	131.76	132.1	0.34	0.75	0.007		0.007
1703884	Split Core		AUL-19-36	132.1	133	0.9	2.19	0.01		0.01
1703885	Standard	217					0.07	0.35		0.35
1703886	Split Core		AUL-19-36	133	134	1	2.3	0.009		0.009
1703887	Split Core		AUL-19-36	134	135	1	2.29	0.01		0.01
1703888	Split Core		AUL-19-36	135	135.5	0.5	1.33	0.009		0.009
1703889	Split Core		AUL-19-36	135.5	136.5	1	2.09	0.006		0.006
1703890	Blank	BLANK					0.25	<0.005		0.0025
1703891	Split Core		AUL-19-36	136.5	137.5	1	2.08	0.017		0.017
1703892	Split Core		AUL-19-36	137.5	138	0.5	1.17	0.006		0.006
1703893	Split Core		AUL-19-36	138	138.6	0.6	1.21	0.01		0.01
1703894	Split Core		AUL-19-36	138.6	139.5	0.9	2.19	0.008		0.008
1703895	Split Core		AUL-19-36	139.5	140.19	0.69	1.6	0.008		0.008
1703896	Split Core		AUL-19-36	140.19	141	0.81	1.78	0.009		0.009
1703897	Split Core		AUL-19-36	141	141.6	0.6	1.39	0.009		0.009
1703898	Split Core		AUL-19-36	141.6	142.18	0.58	1.44	0.007		0.007
1703899	Split Core	DUP	AUL-19-36	142.18	143	0.82	0.75	0.007		0.007
1703900	1/4 Core	DUP					0.81	0.02		0.02
1703901	Split Core		AUL-19-36	143	144	1	2.02	0.014		0.014
1703902	Split Core		AUL-19-36	144	145	1	2.28	0.019		0.019
1703903	Split Core		AUL-19-36	145	146	1	2.13	0.015		0.015
1703904	Split Core		AUL-19-36	146	147	1	2.29	0.019		0.019
1703905	Split Core		AUL-19-36	147	147.5	0.5	1.2	0.029		0.029
1703906	Split Core		AUL-19-36	147.5	148.03	0.53	1.33	0.635		0.635
1703907	Split Core		AUL-19-36	148.03	148.34	0.31	0.73	0.79		0.79
1703908	Split Core		AUL-19-36	148.34	149.06	0.72	1.9	2.093		2.093
1703909	Split Core		AUL-19-36	149.06	150	0.94	2.24	1.31		1.31
1703910	Standard	216					0.07	6.651		6.651
1703911	Split Core		AUL-19-36	150	150.5	0.5	1.24	0.273		0.273
1703912	Split Core		AUL-19-36	150.5	151.37	0.87	2.23	0.951		0.951
1703913	Split Core		AUL-19-36	151.37	151.73	0.36	0.97	>10.000	15.9	15.9

Samples

1703914	Split Core		AUL-19-36	151.73	152.3	0.57	1.34	1.123	1.123
1703915	Split Core		AUL-19-36	152.3	152.6	0.3	0.85	7.266	7.266
1703916	Split Core		AUL-19-36	152.6	153.5	0.9	2.38	0.662	0.662
1703917	Split Core		AUL-19-36	153.5	154.5	1	2.53	0.145	0.145
1703918	Split Core		AUL-19-36	154.5	155	0.5	1.12	0.491	0.491
1703919	Split Core		AUL-19-36	155	156	1	2.54	0.421	0.421
1703920	Split Core		AUL-19-36	156	157	1	2.33	0.171	0.171
1703921	Split Core		AUL-19-36	157	158	1	2.7	0.177	0.177
1703922	Split Core		AUL-19-36	158	159	1	2	0.16	0.16
1703923	Split Core		AUL-19-36	159	160	1	2.19	0.069	0.069
1703924	Split Core	DUP	AUL-19-36	160	161	1	1.09	0.076	0.076
1703925	1/4 Core	DUP					1.12	0.065	0.065
1703926	Split Core		AUL-19-36	165.7	166	0.3	0.65	0.012	0.012
1703927	Split Core		AUL-19-36	170.25	170.6	0.35	0.85	0.023	0.023
1703928	Split Core		AUL-19-36	173.5	174.2	0.7	1.48	<0.005	0.0025
1703929	Split Core		AUL-19-36	176.32	177.32	1	2.57	<0.005	0.0025
1703930	Split Core		AUL-19-36	177.32	178.5	1.18	2.77	<0.005	0.0025
1703931	Split Core		AUL-19-36	178.5	180	1.5	3.6	<0.005	0.0025
1703932	Split Core		AUL-19-36	180	180.5	0.5	1.15	0.007	0.007
1703933	Split Core		AUL-19-36	180.5	181.5	1	2.74	<0.005	0.0025
1703934	Split Core		AUL-19-36	181.5	182.5	1	2.39	<0.005	0.0025
1703935	Standard	217					0.07	0.343	0.343
1703936	Split Core		AUL-19-36	190	190.64	0.64	1.59	0.005	0.005
1703937	Split Core		AUL-19-36	209	210	1	2.33	<0.005	0.0025
1703938	Split Core		AUL-19-36	210	210.9	0.9	2.01	0.008	0.008
1703939	Split Core		AUL-19-36	210.9	211.65	0.75	1.68	0.032	0.032
1703940	Blank	BLANK					0.4	<0.005	0.0025
1703941	Split Core		AUL-19-36	211.65	212.65	1	2.2	<0.005	0.0025
1703942	Split Core		AUL-19-36	212.65	213.2	0.55	1.1	0.044	0.044
1703943	Split Core		AUL-19-36	213.2	214.2	1	2.49	0.007	0.007
1703944	Split Core		AUL-19-36	214.2	215.2	1	2.69	<0.005	0.0025
1703945	Split Core		AUL-19-36	215.2	216.2	1	2.35	<0.005	0.0025
1703946	Split Core		AUL-19-36	216.2	217	0.8	1.83	<0.005	0.0025
1703947	Split Core		AUL-19-36	223	224	1	2.26	<0.005	0.0025
1703948	Split Core		AUL-19-36	224	225	1	3.03	<0.005	0.0025
1703949	Split Core	DUP	AUL-19-36	225	226	1	0.9	<0.005	0.0025
1703950	1/4 Core	DUP					0.79	<0.005	0.0025
1703951	Split Core		AUL-19-36	226	227	1	3.02	<0.005	0.0025
1703952	Split Core		AUL-19-36	227	228	1	2.47	<0.005	0.0025
1703953	Split Core		AUL-19-36	228	229	1	2.36	<0.005	0.0025
1703954	Split Core		AUL-19-36	229	230	1	1.79	<0.005	0.0025

Samples

1703955	Split Core		AUL-19-36	230	230.63	0.63	1.4		0.007	0.007
1703956	Split Core		AUL-19-36	230.63	231.5	0.87	1.27	<0.005		0.0025
1703957	Split Core		AUL-19-36	231.5	232.5	1	2.78		0.006	0.006
1703958	Split Core		AUL-19-36	232.5	233.5	1	1.42	<0.005		0.0025
1703959	Split Core		AUL-19-36	242.5	243.5	1	2.29	<0.005		0.0025
1703960	Standard	216					0.07		6.597	6.597
1703961	Split Core		AUL-19-36	243.5	244.5	1	2.03		2.115	2.115
1703962	Split Core		AUL-19-36	244.5	245.5	1	2.26		0.074	0.074
1703963	Split Core		AUL-19-36	245.5	246.5	1	1.34		0.041	0.041
1703964	Split Core		AUL-19-36	248	249	1	2.13		0.152	0.152
1703965	Split Core		AUL-19-36	249	250	1	1.74	<0.005		0.0025
1703966	Split Core		AUL-19-36	250	251	1	2.33		0.02	0.02
1703967	Split Core		AUL-19-36	251.0	252	1	2.1	<0.005		0.0025

Header

	LOCATION (NAD83 17N)					PLANNED	
DDH ID	**XCOLLAR**	**YCOLLAR**	**ZCOLLAR**	**DEPTH**	**ROCK**	**BRG**	**DIP**
AUL-19-37	592327	5483381	283	375	324.2	183	-55
	Legacy	Cell					
Claim Number	3019086	182116 (Collar), 237535					

Purpose	To intersect main zone between AUL-18-16 and AUL-19-31
Result	Hole drifted much further to the east than planned. Intersected very weakly mineralized main zone "down-dip" of AUL-19-32
Start date	2019-03-18
End date	2019-03-21
Drill Contractor	NOREX
Logged By	Scott Zelligan

Description

BHID	FROM	TO	LENGTH	LITHO	SIMPLIFIED	Comment
AUL-19-37	0	50.8	50.8	OVB	OVB	Not recovered, fragment of white granite.
AUL-19-37	50.8	53.2	2.4	QPtuff	QPtuff	Dark-coloured, mottled, banded/foliated quartz-phyric tuff.
AUL-19-37	53.2	60.8	7.6	BLCHtuff	BLCHtuff	Saprolitic and sericite altered quartz-phyric tuff.
AUL-19-37	60.8	74.5	13.7	QPtuff	QPtuff	Light-coloured, banded/foliated quartz-phyric tuff, intermittent saprolitic, sericitic, and hematitic alteration, in 50cm-1m bands.
AUL-19-37	74.5	76.5	2	QPtuff	QPtuff	Dark grey, banded/foliated quartz-phyric tuff.
AUL-19-37	76.5	88	11.5	BROKEN	BROKEN	Argillite? QP Tuff? Broken interval, frequent quartz-carbonate veining. Over 7m of core loss.
AUL-19-37	88	89.65	1.65	MZ	MZLOW	Strongly banded dark unit (argillite? Tuff?) with pyrite and quartz veining.
AUL-19-37	89.65	90	0.35	ARG	ARG	Strongly banded, dark/light, suspected argillite with quartz-carbonate stringers/laminations.
AUL-19-37	90	90.9	0.9	BLCHarg	ARG	Bleached/altered banded argillite, mottled bluish-white in colour.
AUL-19-37	90.9	120	29.1	ARG	ARG	Dark grey/light grey, banded/foliated, patchy and infrequent disseminated cubic pyrite, intermittent quartz-carbonate stringers/veins/infill.
AUL-19-37	120	125	5	BLCHarg	ARG	Bleached/altered banded argillite, mottled bluish-white in colour.
AUL-19-37	125	131.7	6.7	IF	IF	Moderately to strongly banded, light beige interbedded with dark grey units, intermittently magnetic.
AUL-19-37	131.7	167.8	36.1	ARG	ARG	Dark grey/light grey, banded/foliated, patchy and infrequent disseminated cubic pyrite, intermittent quartz-carbonate stringers/veins/infill. Intermittent iron-formation beds (10-50cm).
AUL-19-37	167.8	170.1	2.3	IF	IF	Moderately to strongly banded, light beige interbedded with dark grey units, intermittently magnetic.
AUL-19-37	170.1	183	12.9	QPtuff	QPtuff	Possibly heavily altered argillite? Appears to be strongly banded quartz-phyric tuff, sericite and silica alteration/flooding, light/dark contrast banding.
AUL-19-37	183	195	12	BROKEN	BROKEN	Broken/fragmentary, several gouge intervals, quartz veining evident, banded units, several meters of core loss.
AUL-19-37	195	260.2	65.2	ARG	ARG	Dark grey/light grey, banded/foliated, patchy and infrequent disseminated cubic pyrite, intermittent quartz-carbonate stringers/veins/infill.
AUL-19-37	260.2	263.1	2.9	PYfr	PYfr	Massive framboidal and other pyrite bed, with several argillite bands (<5cm). Carbonate/argillite matrix? 50-75% pyrite.
AUL-19-37	263.1	277.1	14	ARG	ARG	Dark grey/light grey, banded/foliated, patchy and infrequent disseminated cubic pyrite, intermittent quartz-carbonate stringers/veins/infill.
AUL-19-37	277.1	277.5	0.4	MS	MS	Banded/band fragments of semi-massive pyrite, bed-top?
AUL-19-37	277.5	307.3	29.8	ARG	ARG	Dark grey/light grey, banded/foliated, patchy and infrequent disseminated cubic pyrite, intermittent quartz-carbonate stringers/veins/infill.
AUL-19-37	307.3	308.87	1.57	FLThea	FLThea	Quartz infill of broken/fragmented tuff/argillite.
AUL-19-37	308.87	311	2.13	MZ	MZLOW	Mottled white-grey massive quartz veining with minor sulphides.
AUL-19-37	311	321.35	10.35	BLCHtuff	BLCHtuff	Sericite altered quartz-phyric tuff with frequent but intermittent massive mottled white-grey quartz veins.
AUL-19-37	321.35	375	53.65	QPtuff	QPtuff	Banded, fine to medium-grained quartz-phyric tuff, intermittent quartz veinlets (increasing near bottom of hole), Intermittent bed-tops?

Mineralization

BHID	FROM	TO	LENGTH	PY_PER	ASP_PER	TOTAL_PER	STYLE	Comments
AUL-19-37	88	89.65	1.65	10		10	BANDS	
AUL-19-37	260.2	263.1	2.9	75		75	MASSIVE	
AUL-19-37	277.1	277.5	0.4	30		30	MASSIVE	
AUL-19-37	308.87	311	2.13	2		2	PATCHY	

Quartz-Carb

BHID	FROM	TO	LENGTH	NUMPERM	TYPE	Comment
AUL-19-37	78	88	10	10	STRINGERS/INFILL	
AUL-19-37	88	260.2	172.2	5	STRINGERS	
AUL-19-37	263	279	16	2	STRINGERS	
AUL-19-37	287	307.3	20.3	1	STRINGERS	
AUL-19-37	307.3	311	3.7	1	INFILL	Healed fault/mineralized zone
AUL-19-37	311	321.35	10.35	2	VEINS	
AUL-19-37	343	375	32	3	STRINGERS	

Structure

BHID	FROM	TO	LENGTH	Deg to CA	STRUCTURE	Comment
AUL-19-37	51	61.1	10.1		BROKEN	Intermittent
AUL-19-37	76.5	88	11.5		BROKEN	
AUL-19-37	104	106	2		BROKEN	
AUL-19-37	183	195	12		BROKEN	
AUL-19-37	307.3	311	1.57		FLThea	

Alteration

BHID	FROM	TO	LENGTH	ALTERATION	Comments
AUL-19-37	53.2	60.8	7.6	SAPROLITE-SERICITE	
AUL-19-37	90	90.9	0.9	BLEACHED	Bleached/altered banded argillite, mottled bluish-white in colour.
AUL-19-37	120	125	5	BLEACHED	Bleached/altered banded argillite, mottled bluish-white in colour.
AUL-19-37	311	321.35	10.35	SERICITE	

RQD

BHID	FROM	TO	LENGTH	RECOVERY	REC_PER	RQD	RQD_PER	Comments
AUL-19-37	51.00	54.00	3.00	2.31	77%	0.73	32%	
AUL-19-37	54.00	57.00	3.00	0.94	31%	0.10	11%	
AUL-19-37	57.00	60.00	3.00	1.33	44%	0.56	42%	
AUL-19-37	60.00	63.00	3.00	2.38	79%	1.23	52%	
AUL-19-37	63.00	66.00	3.00	1.97	66%	1.34	68%	
AUL-19-37	66.00	69.00	3.00	2.65	88%	1.05	40%	
AUL-19-37	69.00	72.00	3.00	1.80	60%	0.87	48%	
AUL-19-37	72.00	75.00	3.00	1.05	35%	0.00	0%	
AUL-19-37	75.00	78.00	3.00	1.50	50%	0.00	0%	
AUL-19-37	78.00	81.00	3.00	1.45	48%	0.00	0%	
AUL-19-37	81.00	84.00	3.00	0.65	22%	0.24	37%	
AUL-19-37	84.00	87.00	3.00	1.41	47%	0.00	0%	
AUL-19-37	87.00	90.00	3.00	2.85	95%	1.58	55%	
AUL-19-37	90.00	93.00	3.00	2.95	98%	2.13	72%	
AUL-19-37	93.00	96.00	3.00	2.80	93%	2.45	88%	
AUL-19-37	96.00	99.00	3.00	2.78	93%	1.22	44%	
AUL-19-37	99.00	102.00	3.00	2.99	100%	2.48	83%	
AUL-19-37	102.00	105.00	3.00	2.60	87%	1.38	53%	
AUL-19-37	105.00	108.00	3.00	2.26	75%	1.02	45%	
AUL-19-37	108.00	111.00	3.00	2.35	78%	0.97	41%	
AUL-19-37	111.00	114.00	3.00	2.98	99%	2.22	74%	
AUL-19-37	114.00	117.00	3.00	2.42	81%	1.21	50%	
AUL-19-37	117.00	120.00	3.00	2.91	97%	2.06	71%	
AUL-19-37	120.00	123.00	3.00	2.55	85%	1.65	65%	
AUL-19-37	123.00	126.00	3.00	2.57	86%	1.79	70%	
AUL-19-37	126.00	129.00	3.00	**2.94**	98%	1.78	61%	
AUL-19-37	129.00	132.00	3.00	**2.87**	96%	2.41	84%	
AUL-19-37	132.00	135.00	3.00	**2.95**	98%	1.78	60%	
AUL-19-37	135.00	138.00	3.00	**3.00**	100%	2.15	72%	
AUL-19-37	138.00	141.00	3.00	**2.96**	99%	2.33	79%	
AUL-19-37	141.00	144.00	3.00	**2.86**	95%	2.45	86%	
AUL-19-37	144.00	147.00	3.00	**2.69**	90%	1.38	51%	
AUL-19-37	147.00	150.00	3.00	**2.75**	92%	1.25	46%	
AUL-19-37	150.00	153.00	3.00	**3.03**	101%	1.34	44%	
AUL-19-37	153.00	156.00	3.00	**2.92**	97%	2.51	86%	
AUL-19-37	156.00	159.00	3.00	**2.92**	97%	2.44	84%	
AUL-19-37	159.00	162.00	3.00	**1.61**	54%	0.82	51%	
AUL-19-37	162.00	165.00	3.00	**2.63**	88%	1.30	50%	
AUL-19-37	165.00	168.00	3.00	2.58	86%	1.27	49%	
AUL-19-37	168.00	171.00	3.00	2.87	96%	1.63	57%	
AUL-19-37	171.00	174.00	3.00	2.20	73%	1.28	58%	
AUL-19-37	174.00	177.00	3.00	1.55	52%	0.53	34%	
AUL-19-37	177.00	180.00	3.00	3.11	104%	2.24	72%	
AUL-19-37	180.00	183.00	3.00	2.00	67%	0.55	28%	
AUL-19-37	183.00	186.00	3.00	1.10	37%	0.00	0%	
AUL-19-37	186.00	189.00	3.00	1.25	42%	0.33	26%	
AUL-19-37	189.00	192.00	3.00	0.50	17%	0.00	0%	
AUL-19-37	192.00	195.00	3.00	0.50	17%	0.00	0%	
AUL-19-37	195.00	198.00	3.00	2.65	88%	1.26	48%	

RQD

AUL-19-37	198.00	201.00	3.00	2.95	98%	1.96	66%
AUL-19-37	201.00	204.00	3.00	2.97	99%	1.67	56%
AUL-19-37	204.00	207.00	3.00	3.06	102%	2.26	74%
AUL-19-37	207.00	210.00	3.00	2.97	99%	2.02	68%
AUL-19-37	210.00	213.00	3.00	2.99	100%	1.76	59%
AUL-19-37	213.00	216.00	3.00	2.99	100%	2.45	82%
AUL-19-37	216.00	219.00	3.00	2.98	99%	2.58	87%
AUL-19-37	219.00	222.00	3.00	2.98	99%	2.60	87%
AUL-19-37	222.00	225.00	3.00	2.95	98%	2.60	88%
AUL-19-37	225.00	228.00	3.00	2.99	100%	2.31	77%
AUL-19-37	228.00	231.00	3.00	3.00	100%	2.91	97%
AUL-19-37	231.00	234.00	3.00	2.95	98%	2.57	87%
AUL-19-37	234.00	237.00	3.00	3.05	102%	2.84	93%
AUL-19-37	237.00	240.00	3.00	3.02	101%	2.77	92%
AUL-19-37	240.00	243.00	3.00	2.89	96%	2.47	85%
AUL-19-37	243.00	246.00	3.00	3.03	101%	2.22	73%
AUL-19-37	246.00	249.00	3.00	3.00	100%	2.65	88%
AUL-19-37	249.00	252.00	3.00	**2.90**	97%	2.51	87%
AUL-19-37	252.00	255.00	3.00	**3.03**	101%	2.89	95%
AUL-19-37	255.00	258.00	3.00	**3.02**	101%	3.02	100%
AUL-19-37	258.00	261.00	3.00	**2.90**	97%	2.14	74%
AUL-19-37	261.00	264.00	3.00	**2.83**	94%	2.12	75%
AUL-19-37	264.00	267.00	3.00	**3.07**	102%	1.40	46%
AUL-19-37	267.00	270.00	3.00	**2.99**	100%	2.86	96%
AUL-19-37	270.00	273.00	3.00	**2.87**	96%	2.18	76%
AUL-19-37	273.00	276.00	3.00	**2.96**	99%	1.92	65%
AUL-19-37	276.00	279.00	3.00	**2.96**	99%	2.67	90%
AUL-19-37	279.00	282.00	3.00	**3.00**	100%	3.00	100%
AUL-19-37	282.00	285.00	3.00	**2.99**	100%	2.85	96%
AUL-19-37	285.00	288.00	3.00	**2.98**	99%	2.88	97%
AUL-19-37	288.00	291.00	3.00	**2.93**	98%	2.45	84%
AUL-19-37	291.00	294.00	3.00	**3.02**	101%	3.02	100%
AUL-19-37	294.00	297.00	3.00	**2.77**	92%	1.81	66%
AUL-19-37	297.00	300.00	3.00	**3.00**	100%	2.84	95%
AUL-19-37	300.00	303.00	3.00	**2.95**	98%	2.77	94%
AUL-19-37	303.00	306.00	3.00	**2.86**	95%	1.77	62%
AUL-19-37	306.00	309.00	3.00	**2.85**	95%	2.22	78%
AUL-19-37	309.00	312.00	3.00	**3.02**	101%	2.32	77%
AUL-19-37	312.00	315.00	3.00	**2.99**	100%	2.61	87%
AUL-19-37	315.00	318.00	3.00	**2.87**	96%	2.38	83%
AUL-19-37	318.00	321.00	3.00	**3.04**	101%	2.68	88%
AUL-19-37	321.00	324.00	3.00	**2.93**	98%	2.78	95%
AUL-19-37	324.00	327.00	3.00	**2.94**	98%	2.70	92%
AUL-19-37	327.00	330.00	3.00	**2.96**	99%	2.70	91%
AUL-19-37	330.00	333.00	3.00	**2.96**	99%	2.25	76%
AUL-19-37	333.00	336.00	3.00	**3.00**	100%	2.92	97%
AUL-19-37	336.00	339.00	3.00	**2.96**	99%	2.64	89%
AUL-19-37	339.00	342.00	3.00	**2.88**	96%	2.78	96%
AUL-19-37	342.00	345.00	3.00	**2.97**	99%	2.42	81%
AUL-19-37	345.00	348.00	3.00	**2.69**	90%	2.62	97%

RQD

AUL-19-37	348.00	351.00	3.00	**2.90**	97%	2.60	89%
AUL-19-37	351.00	354.00	3.00	**2.93**	98%	2.73	93%
AUL-19-37	354.00	357.00	3.00	**3.06**	102%	3.06	100%
AUL-19-37	357.00	360.00	3.00	**2.72**	91%	2.58	95%
AUL-19-37	360.00	363.00	3.00	**2.90**	97%	2.55	88%
AUL-19-37	363.00	366.00	3.00	**2.99**	100%	2.69	90%
AUL-19-37	366.00	369.00	3.00	**2.92**	97%	2.34	80%
AUL-19-37	369.00	372.00	3.00	**2.99**	100%	2.88	96%
AUL-19-37	372.00	375.00	3.00	**3.01**	100%	2.70	90%
			324.00	285.17	88%	209.20	73%

Survey

BHID	AT	BRG	DIP	Mag Field	Meas Azi	Use Az	Use Dip	Device	Comments
AUL-19-37	99	178.8	-54	5751	191.8	Yes	Yes	Reflex EZ-Shot	
AUL-19-37	150	173.3	-52	5713	186.3	Yes	Yes	Reflex EZ-Shot	
AUL-19-37	201	176.5	-50.3	5674	189.5	Yes	Yes	Reflex EZ-Shot	
AUL-19-37	252	176.7	-46.9	5606	189.7	Yes	Yes	Reflex EZ-Shot	
AUL-19-37	303	178.1	-42	5567	191.1	Yes	Yes	Reflex EZ-Shot	
AUL-19-37	354	181.5	-40.9	5576	194.5	Yes	Yes	Reflex EZ-Shot	
AUL-19-37	375	183.9	-40.1	5592	196.9	Yes	Yes	Reflex EZ-Shot	

Samples

Sample Number	Type	QAQC	BHID	FROM	TO	LENGTH	SAMPLE WEIGHT	Au PPM (FA430) - Lab	Au GMT	Au Final
1703968	Split Core		AUL-19-37	51.00	54.00	3.00	4.12	0.016		0.016
1703969	Split Core		AUL-19-37	57.00	60.00	3.00	2.41	<0.005		0.0025
1703970	Split Core		AUL-19-37	60.00	61.89	1.89	1.57	0.013		0.013
1703971	Split Core		AUL-19-37	72.00	75.00	3.00	2.38	0.014		0.014
1703972	Split Core		AUL-19-37	75.00	78.00	3.00	3	0.006		0.006
1703973	Split Core		AUL-19-37	78.00	81.00	3.00	3.49	<0.005		0.0025
1703974	Split Core		AUL-19-37	81.00	84.00	3.00	1.25	0.007		0.007
1703975	Split Core		AUL-19-37	84.00	87.00	3.00	3.52	0.011		0.011
1703976	Split Core		AUL-19-37	87.00	89.65	2.65	4.24	0.102		0.102
1703977	Split Core	DUP	AUL-19-37	89.65	91.00	1.35	1.31	0.024		0.024
1703978	1/4 Core	DUP					1.17	0.029		0.029
1703979	Split Core		AUL-19-37	94.71	95.16	0.45	0.93	0.038		0.038
1703980	Split Core		AUL-19-37	95.16	96.31	1.15	2.31	0.022		0.022
1703981	Split Core		AUL-19-37	96.31	97.00	0.69	1.08	0.02		0.02
1703982	Split Core		AUL-19-37	97.00	98.00	1.00	2.42	0.014		0.014
1703983	Split Core		AUL-19-37	98.00	99.00	1.00	1.76	0.011		0.011
1703984	Split Core		AUL-19-37	99.00	100.00	1.00	2.08	0.011		0.011
1703985	Standard	217					0.07	0.339		0.339
1703986	Split Core		AUL-19-37	104.00	106.75	2.75	4.06	0.018		0.018
1703987	Split Core		AUL-19-37	113.00	114.00	1.00	1.93	0.008		0.008
1703988	Split Core		AUL-19-37	114.00	115.00	1.00	2.72	0.006		0.006
1703989	Split Core		AUL-19-37	115.00	117.00	2.00	3.11	0.015		0.015
1703990	Blank	BLANK					0.31	<0.005		0.0025
1703991	Split Core		AUL-19-37	117.00	118.00	1.00	2.56	0.037		0.037
1703992	Split Core		AUL-19-37	118.00	119.00	1.00	2.32	0.046		0.046
1703993	Split Core		AUL-19-37	119.00	120.00	1.00	2.03	0.087		0.087
1648163	Split Core		AUL-19-37	147.00	148.00	1.00	2.3	0.006		0.006
1648164	Split Core		AUL-19-37	148.00	149.00	1.00	2.58	0.005		0.005
1648165	Split Core		AUL-19-37	148.00	150.00	2.00	1.79	0.012		0.012
1648166	Split Core		AUL-19-37	150.00	151.00	1.00	2.28	1.077		1.077
1648167	Split Core		AUL-19-37	149.00	151.75	2.75	1.56	0.227		0.227
1648168	Split Core		AUL-19-37	151.75	152.40	0.65	1.93	0.055		0.055
1648169	Split Core		AUL-19-37	150.00	152.90	2.90	1.36	0.237		0.237

Samples

1648170	Split Core		AUL-19-37	152.90	153.50	0.60	1.52	0.058	0.058
1648171	Split Core		AUL-19-37	151.00	154.00	3.00	1.2	0.027	0.027
1648172	Split Core		AUL-19-37	154.00	155.00	1.00	2.67	0.017	0.017
1648173	Split Core		AUL-19-37	152.00	156.00	4.00	2.17	0.005	0.005
1648174	Split Core		AUL-19-37	156.00	157.00	1.00	2.44	0.006	0.006
1648175	Standard	217					0.07	0.346	0.346
1703994	Split Core		AUL-19-37	165.50	166.50	1.00	2.44	0.006	0.006
1703995	Split Core		AUL-19-37	180.00	181.00	1.00	1.83	<0.005	0.0025
1703996	Split Core		AUL-19-37	181.00	183.40	2.40	3.49	0.019	0.019
1703997	Split Core		AUL-19-37	183.40	186.00	2.60	2.91	0.006	0.006
1703998	Split Core		AUL-19-37	186.00	189.00	3.00	3.52	0.114	0.114
1703999	Split Core		AUL-19-37	189.00	195.42	6.42	4.97	0.718	0.718
1704000	Split Core	DUP	AUL-19-37	257.00	258.00	1.00	1	0.021	0.021
1648101	1/4 Core	DUP					0.97	0.02	0.02
1648102	Split Core		AUL-19-37	258.00	259.00	1.00	2.03	0.02	0.02
1648103	Split Core		AUL-19-37	259.00	260.23	1.23	2.6	0.025	0.025
1648104	Split Core		AUL-19-37	260.23	261.23	1.00	2.32	0.216	0.216
1648105	Split Core		AUL-19-37	261.23	262.23	1.00	2.51	0.087	0.087
1648106	Split Core		AUL-19-37	262.23	263.25	1.02	2.53	0.084	0.084
1648107	Split Core		AUL-19-37	263.25	264.00	0.75	1.3	0.015	0.015
1648108	Split Core		AUL-19-37	264.00	265.00	1.00	1.84	<0.005	0.0025
1648109	Split Core		AUL-19-37	265.00	266.00	1.00	2.05	0.005	0.005
1648110	Standard	216					0.07	6.665	6.665
1648111	Split Core		AUL-19-37	273.00	274.00	1.00	2.12	0.011	0.011
1648112	Split Core		AUL-19-37	274.00	275.00	1.00	1.92	0.012	0.012
1648113	Split Core		AUL-19-37	275.00	275.52	0.52	1.01	0.013	0.013
1648114	Split Core		AUL-19-37	275.52	276.82	1.30	2.69	0.103	0.103
1648115	Split Core		AUL-19-37	276.82	277.63	0.81	1.69	0.143	0.143
1648116	Split Core		AUL-19-37	277.63	279.00	1.37	2.83	0.039	0.039
1648117	Split Core		AUL-19-37	279.00	280.00	1.00	2.29	0.034	0.034
1648118	Split Core		AUL-19-37	300.00	301.00	1.00	2.09	0.008	0.008
1648119	Split Core		AUL-19-37	301.00	302.00	1.00	1.65	0.054	0.054
1648120	Split Core		AUL-19-37	302.00	303.00	1.00	2.05	0.061	0.061
1648121	Split Core		AUL-19-37	303.00	304.00	1.00	1.94	0.046	0.046

Samples

1648122	Split Core		AUL-19-37	304.00	305.00	1.00	2.21		0.045	0.045
1648123	Split Core		AUL-19-37	305.00	306.00	1.00	2.08		0.016	0.016
1648124	Split Core	DUP	AUL-19-37	306.00	307.00	1.00	0.89		0.013	0.013
1648125	1/4 Core	DUP					1.02		0.011	0.011
1648126	Split Core		AUL-19-37	307.00	307.50	0.50	1.05		0.019	0.019
1648127	Split Core		AUL-19-37	307.50	308.87	1.37	2.49		0.255	0.255
1648128	Split Core		AUL-19-37	308.87	310.00	1.13	2.28		0.098	0.098
1648129	Split Core		AUL-19-37	310.00	311.00	1.00	1.74		0.026	0.026
1648130	Split Core		AUL-19-37	311.00	312.00	1.00	2.18		0.139	0.139
1648131	Split Core		AUL-19-37	312.00	313.00	1.00	2.19		0.101	0.101
1648132	Split Core		AUL-19-37	313.00	314.00	1.00	2		0.013	0.013
1648133	Split Core		AUL-19-37	314.00	315.00	1.00	2.35		0.204	0.204
1648134	Split Core		AUL-19-37	315.00	316.00	1.00	2.39		0.085	0.085
1648135	Standard	217					0.07		0.339	0.339
1648136	Split Core		AUL-19-37	316.00	317.00	1.00	2.15		0.235	0.235
1648137	Split Core		AUL-19-37	317.00	318.00	1.00	1.64		0.167	0.167
1648138	Split Core		AUL-19-37	318.00	319.00	1.00	2.22		0.025	0.025
1648139	Split Core		AUL-19-37	319.00	320.00	1.00	2.23		0.035	0.035
1648140	Blank	BLANK					0.44	<0.005		0.0025
1648141	Split Core		AUL-19-37	320.00	321.00	1.00	2.49		0.014	0.014
1648142	Split Core		AUL-19-37	321.00	322.00	1.00	2.3		0.032	0.032
1648143	Split Core		AUL-19-37	322.00	323.00	1.00	2.32		0.036	0.036
1648144	Split Core		AUL-19-37	323.00	324.00	1.00	2.15		0.052	0.052
1648145	Split Core		AUL-19-37	324.00	325.00	1.00	2.27		0.074	0.074
1648146	Split Core		AUL-19-37	325.00	326.00	1.00	2.51		0.065	0.065
1648147	Split Core		AUL-19-37	326.00	327.00	1.00	2.04		0.057	0.057
1648148	Split Core		AUL-19-37	327.00	328.00	1.00	1.97		0.069	0.069
1648149	Split Core	DUP	AUL-19-37	328.00	329.00	1.00	1.26		0.092	0.092
1648150	1/4 Core	DUP					1.12		0.073	0.073
1648151	Split Core		AUL-19-37	329.00	330.00	1.00	2.17		0.088	0.088
1648152	Split Core		AUL-19-37	330.00	331.00	1.00	2.38		0.058	0.058
1648153	Split Core		AUL-19-37	331.00	332.00	1.00	2.47		0.066	0.066
1648154	Split Core		AUL-19-37	332.00	333.00	1.00	2.29		0.062	0.062
1648155	Split Core		AUL-19-37	333.00	334.00	1.00	2.37		0.037	0.037

Samples

1648156	Split Core	AUL-19-37	334.00	335.00	1.00	2.27	0.035	0.035

Logistics Report Prepared

for

Aurelius Minerals Inc.

Volterra-2D Induced Polarization

on the

Mikwam Property

Cochrane, Ontario, Canada

Survey conducted by SJ Geophysics Ltd.
September 2019

Report prepared
September 2019

Table of Contents

Index of Figures

Index of Tables

1. Survey Summary

SJ Geophysics Ltd. was contracted by Aurelius Minerals Inc. to acquire Volterra-2DIP data on their Mikwam Property. Data was acquired across 19 survey lines on one survey grid. Table 1 provides a brief summary of the project.

Client	Aurelius Minerals Inc.
Project Name	Mikwam Property
Project Number	SJ841
Location (approx. centre of grid)	Latitude: 49° 29' 41''N Longitude: 79° 43' 26''W 592405E 5483235N; NAD83 UTM Zone 17N
NTS Sheet	32E/05, 32E/12
Total Line Kilometres	Cross-lines: 24.225 km Base-lines: 1.50 km
Production Dates	September 10 – September 27, 2019

Table 1: Survey Summary

The objective of the survey was to map the electrical properties, resistivity and chargeability, of the subsurface rocks within the area of interest to assist with drill hole targeting.

2. Location and Access

The Mikwam Property is located in Ontario, Canada. It is situated 105 km northeast of the town of Cochrane (Figure 1).

Figure 1: Overview map of the Mikwam Property

The project area can be accessed from Cochrane by the following directions:

- Drive east on highway ON-652N (route to Detour Lake Mine). There is a left bend in the road approximately 30 km outside of town. Follow the bend and continue north on ON-652N for 70 km.
- At the fork, turn right onto Chabbier Road and follow for approximately 40 km to reach the helicopter staging area. The survey area is 20 km southeast of this point.

A map of the project area, along with road access, is shown in Figure 2.

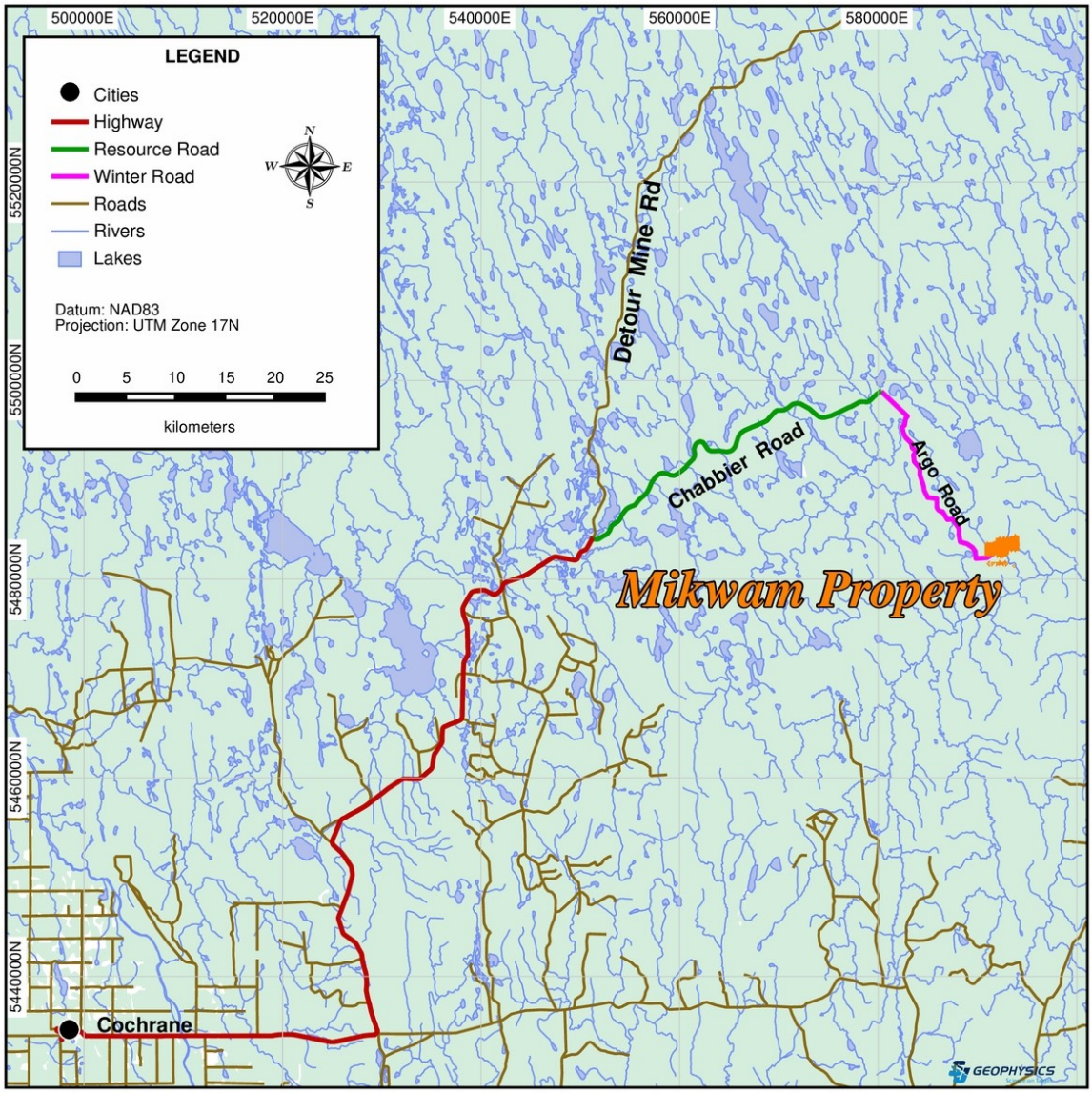


Figure 2: Location map for the Mikwam Property

3. Survey Grid

3.1. Proposed Grid

The Mikwam grid was planned with 28 cross-lines and lengths ranging from 1000 m to 1600 m. The lines were spaced at 100 m, with the exception of the three easternmost lines which were spaced at 200 m. In addition to the cross-lines, a three kilometer long base-line was established that connected all of the cross-lines. The cross-lines had an azimuth of 0º and the base-line had an azimuth of 90º. The base-line and all but two of the cross-lines were cut through the bush and staked with 25 m station markers prior to commencing the IP survey. The initially planned cross-lines are shown in Figure 3.

3.2. Survey Grid

The grid surveyed differed from the proposed grid. Ten lines were removed from the survey early on due to time and budget constraints; effectively creating a grid of 200 m spaced lines, with the exception of lines 2100E-2700E. These seven lines were spaced at 100 m. Line azimuths and 'straightness' varied between the lines. This was a result of inconsistent navigating techniques between individual line-cutting crews. Line 900E was shorter than the rest by 175 m, as the cutting crew terminated it before reaching the final station on the north end. The surveyed grid parameters are summarized in Table 2 and displayed in Figure 4.

Grid	Mikwam
Number of Surveyed Lines	19
Survey Line Azimuth	Cross-line – 0º Base-line – 90º
Line Spacing	100 m to 200 m
Station Spacing	25 m

Table 2: Grid parameters

The line and station labels for the grid were based on a local coordinate system. Please refer to Appendix A for a detailed breakdown of the survey lines.

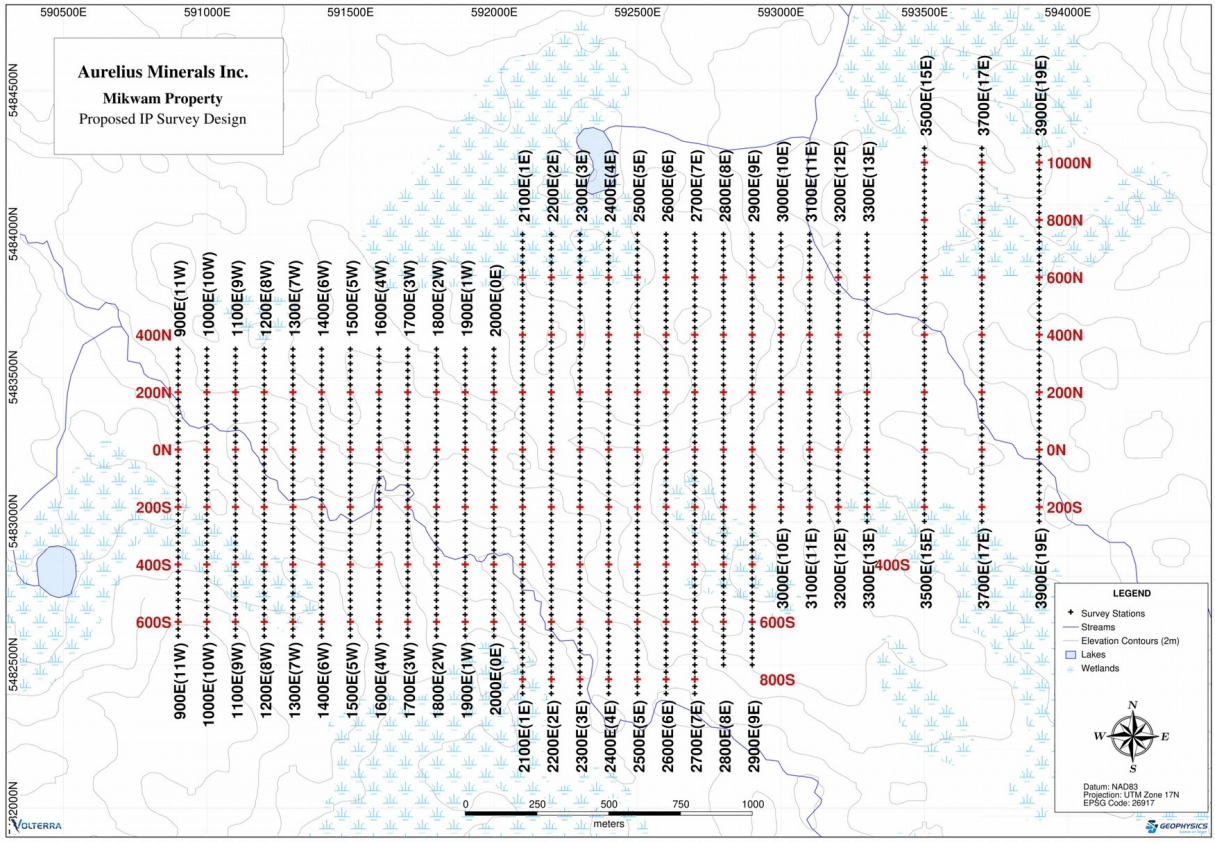


Figure 3: Grid map showing the proposed Mikwam grid

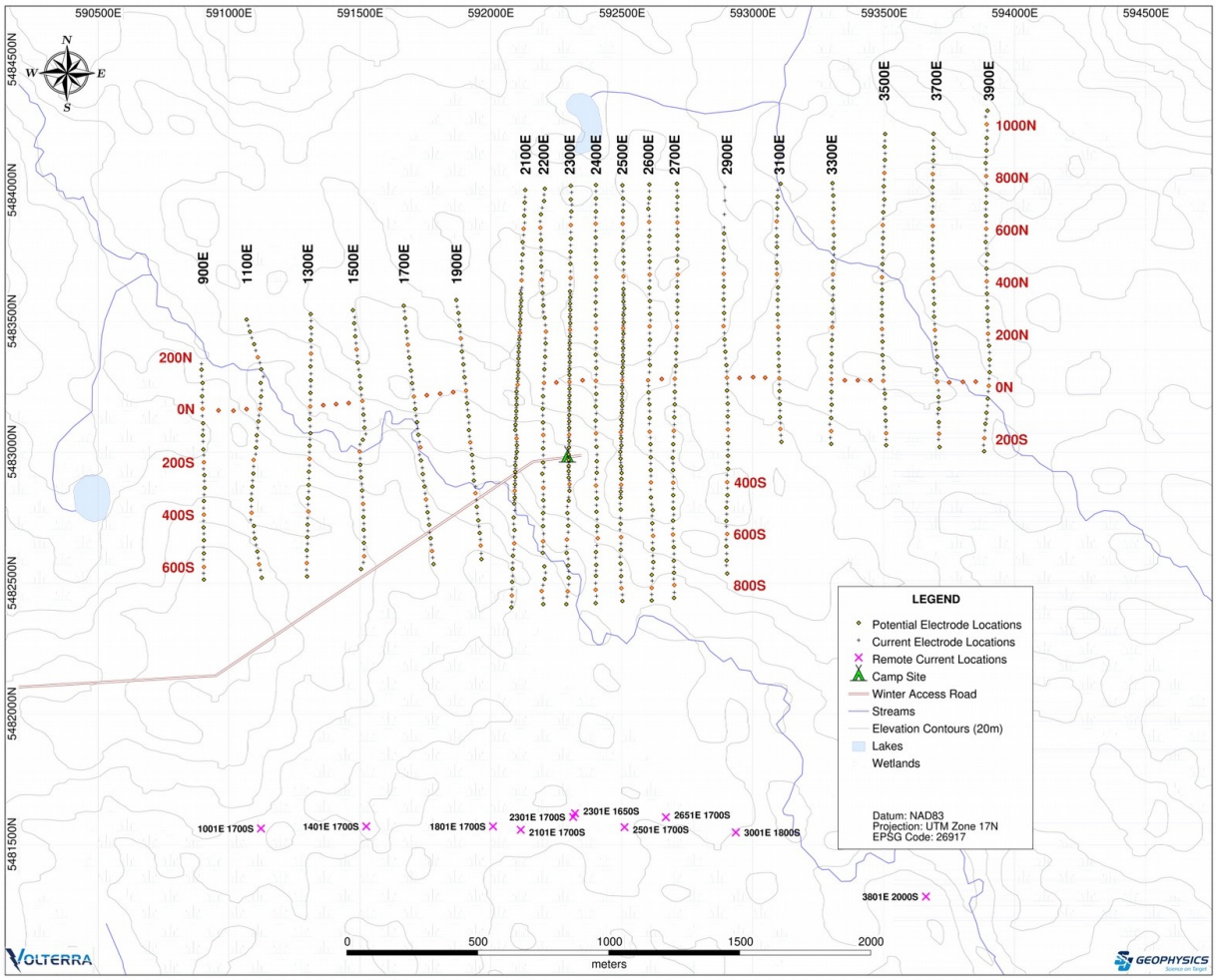


Figure 4: Grid map showing the surveyed Mikwam grid

4. Survey Parameters and Instrumentation

4.1. Volterra Distributed Acquisition System

The Volterra Distributed Acquisition System was utilized to acquire the geophysical data. Each four-channel Volterra acquisition unit records the full waveform signal from a series of dipoles. The full-waveform data is then passed through proprietary signal processing software to calculate the relevant geophysical attributes: apparent resistivity and chargeability.

The current injections were controlled using a GDD TxII transmitter. The full instrument specifications are listed in Appendix B.

4.2. Volterra-2DIP Survey Design

The Volterra-2DIP lines were acquired using in-line arrays consisting of 50 m dipoles. Current injections occurred at the mid-point of each dipole with an injection spacing of 50 m resulting in an effective station spacing of 25 m. A Volterra acquisition unit was placed in the center of each set of four dipoles, corresponding to a unit every 200 m, as shown in Figure 5. Lines 2100E, 2300E, and 2500E had 800 m sections with 25 m dipoles to increase resolution over the zone of interest. In this zone, the effective station spacing with current injections was 12.5 m. Each line had recording dipoles along its entire length for each current injection; resulting in 20 recording channels for lines that were 1000 m in length up to 32 recording channels for lines that were 1600 m in length. As such, lines 2100E, 2300E, and 2500E had a total of 48 recording dipoles for each current injection.

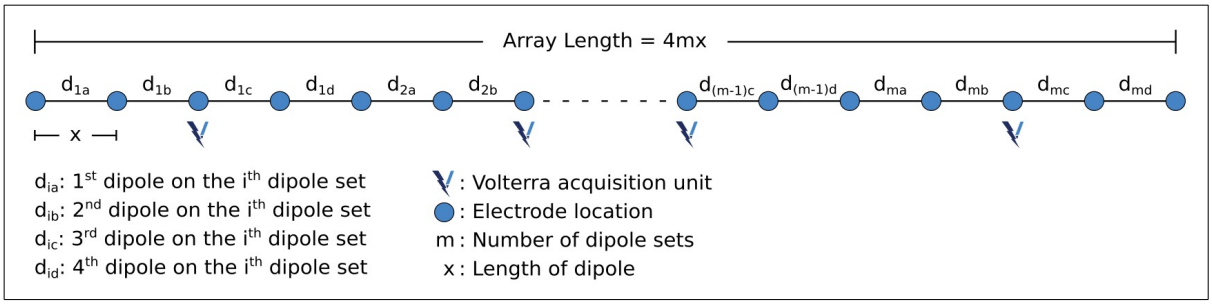


Figure 5: Schematic representation of the in-line array

Receiver dipoles were installed using 70 cm long and 10 mm diameter stainless steel electrodes hammered into the ground and connected into the array by single or double conductor wire. The electrodes used for current injections were 100 cm long and 15 mm in diameter with

two electrodes used at each injection site to improve ground contact. Current electrodes were connected to the current transmitter by single conductor wire.

4.3. Volterra-3DIP Survey Design

The logistics of the 2DIP survey were planned in a way to acquire three-dimensional information at the same time the two-dimensional data was collected. To achieve this, the 2D lines were surveyed in pairs, simultaneously. Continuous recording along the entire line is the nature of the Volterra system. This allows one line not only to collect the current injections along itself, but also the current injections from the neighboring line being surveyed. In this manner, each line records two-dimensional data as well as off-line three-dimensional data from the neighboring line; garnering information about the subsurface between line pairs. Surveyed pairs of lines were connected by 50 m dipoles along the base-line 0N. Lines 2100E, 2300E, and 2500E were not included in this arrangement and were surveyed strictly as 2DIP lines.

4.4. Acquisition Parameters

The recording and processing parameters used for the survey are described in Table 3.

IP Transmitter	GDD TxII (SN #433, 436)
Duty Cycle and Waveform	50%; Square
Cycle and Period	2 sec on / 2 sec off; 8 second
IP Signal Recording	Volterra Acquisition Unit (Dabtube 7000 Series)
Reading Length	120 seconds
IP Signal Processing	CSProc (SJ Geophysics proprietary software)
Vp Delay, Vp Integration	1200 ms, 600 ms
Mx Delay, # of Windows Width (Window Width)	50 ms, 26 26, 28, 30, 32, 34, 36, 39, 42, 45, 48, 52, 56, 60, 65, 70, 75, 81, 87, 94, 101, 109, 118, 128, 140, 154, 150 (50–1950 ms)
Mx Integration (Inversion)	275–1950 ms (windows 8–26)
Properties Calculated	Vp, Mx, Sp, Apparent Resistivity and Chargeability

Table 3: IP transmitter and reading parameters

Ten remote electrode stations were utilized over the course of the survey. The location of the remote current electrodes are listed in Table 4 below.

Name	Label	Easting	Northing
Remote 1	2501E 1700S	592510	541568
Remote 2	2301E 1650S	592321	5481621
Remote 3	2101E 1700S	592114	5481558
Remote 4	1801E 1700S	592008	5481571
Remote 5	1401E 1700S	591524	5481571
Remote 6	1001E 1700S	591122	5481563
Remote 7	2301E 1700S	592314	5481607
Remote 8	2651E 1700S	592668	5481606
Remote 9	3801E 2000S	593661	5481303
Remote 10	3001E 1800S	592935	5481548
NAD83 UTM Zone 17N			

Table 4: Location of IP remote sites

4.5. GPS

Garmin GPSMap 62s/64s handheld GPS units were used to collect location data at each survey station. The GPS data was collected in the NAD83 UTM Zone 17N coordinate system.

5. Field Logistics

The SJ Geophysics field crew consisted of one field geophysicist and two technicians to perform the day-to-day operations of the survey. This team oversaw all operational aspects including field logistics, data acquisition and initial field data quality control. Table 5 lists the SJ Geophysics crew members on this project. The client provided two helpers to assist the geophysical crew in the operation of the survey and one to cook and operate the camp Argo.

Crew Member Name	Role	Dates on Site
Jordan Perk	Field Geophysicist	September 10 – September 27, 2019
Jeff Moorcroft	Field Technician	September 10 – September 27, 2019
Will Kahlert	Field Technician	September 10 – September 27, 2019
Danny Renaud	Helper	September 10 – September 27, 2019
Hunter Robert	Helper	September 10 – September 15, 2019
Jean Francoeur	Helper	September 17 – September 27, 2019
Pete Robert	Camp Cook	September 10 – September 27, 2019

Table 5: Details of the SJ Geophysics crew on site

The SJ Geophysics crew mobilized to the Mikwam Property from Vancouver, beginning on September 8, and arriving in camp the morning of September 10. They demobilized from the project site on September 28 arriving in Thunder Bay September 29.

The SJ Geophysics crew was accommodated by the client in a temporary exploration camp. It was located centrally within the survey area. The camp was very basic, consisting of only one large tent which served as the kitchen, office, and bunk house. All of the camp gear and survey equipment was flown in with a helicopter operated by Expedition Helicopters. A satellite internet connection provided the primary means of communication with the SJ Geophysics office.

The SJ Geophysics crew used two rental trucks for transportation to the project staging area. To assist with transportation on-site the client rented an Argo from Timmins Rent All & Equipment Sales. The Argo provided a means of transportation while on the grid and was also capable of driving from the camp location to the staging area. While the Argo did provide good access to parts of the grid and was significantly helpful in conducting the survey it suffered from numerous breakdowns.

During the course of the geophysical survey the SJ Geophysics crew conducted weekly safety meetings as well as daily tailgate meetings. The safety meetings included a comprehensive review of safe work practices specific to our geophysical surveys and field operations. At the tailgate meetings, personnel discussed issues related to weather conditions (including ramifications on the survey/personal safety), encounters with or sightings of potentially problematic wildlife, efficient organization of daily tasks, and any other work-related questions or concerns.

Each acquisition day began with the setup of the Volterra acquisition units along the receiver lines and the setup of the transmitter site. Prior to field data acquisition, a contact resistivity test was performed using a small waveform generator attached in parallel to a given Volterra acquisition channel. This was done for each dipole in the array and allowed the operator to identify breaks in the wire or areas of poor ground contact which could degrade input signal quality. Furthermore, this test allowed the operator to inspect the raw signal, ensuring that the Volterra acquisition units were functioning correctly, and to ensure that the receiver was synchronizing with the correct GPS time. Upon completion of these tasks acquisition would begin. During acquisition stages a dedicated 'transmitter' Volterra acquisition unit and a current monitor were used to measure the current being injected at each station. An Android tablet with an in-house Volterra software application was used to record the current injection start time and duration.

The three 2DIP lines 2500E, 2300E, and 2100E were surveyed first as individual lines moving east to west. After these lines were completed, the crew began surveying lines in pairs to collect the desired 3D components. The lines were surveyed in the following order: 1700E/1900E, 1300E/1500E, 900E/1100E, 2200E/2400E, 2600E/2700E, 3700E/3900E, 3300E/3500E, 2900E/3100E.

Overall, the project progressed smoothly and steadily without any significant difficulties. A river intersected the lines on the western portion of the grid and was often awkward to cross, however, the impact on the survey was minimal. There were three isolated instances of equipment malfunction on September 11, 17, and 20. These events left small gaps in the data. The crew resurveyed to fill the gaps while continuing with the survey resulting in minimal lost time. The resurveying for the gaps occurred on September 12, 18, and 21, respectively.

6. Data Quality

6.1. Locations

The location data was of good quality. The terrain on the property was very flat and the vegetative cover was sparse allowing for good GPS signals. The elevation data recorded by the GPS units in the field were compared with those derived from the Canadian Digital Surface Model (CDSM). It was determined that the elevations sampled from the CDSM were more consistent and would provide a better basis for modeling than their GPS counterparts. All field recorded elevations for survey stations were replaced with elevations sampled from the CDSM for the 2D and 3D inversion modelling.

6.2. Volterra-2DIP Data

In general, the IP data collected on the Mikwam Property was of high-quality. A very defined boundary exists along the lines which trends east-northeast at approximately 60˚, separating the data into two distinct zones. All lines cross the boundary with approximately 25%-30% of their stations lying to the north of it. South of this boundary, the voltage-potentials (Vp) were easily maintained above 5 mV for all current injections along the lines. This resulted in clean decay curves and high quality apparent resistivity measurements. The boundary is believed to be a discrete low resistivity conductor. North of this conductor, it was difficult to get a measurable Vp when the current injections were south of the potential stations (C<P). Vp values for these readings were below 1 mV and did not record usable chargeability data. Calculated resistivity values for measurements with Vp's below 0.15 mV appeared consistent and repeatable, but preliminary 2D inversion models failed to converge. Removal of data points with Vp's less than 0.15 mV improved the inversion models greatly, and it was therefore determined that these data points were of insufficient quality. With the current injection station north of the potential stations (P<C) all dipoles saw strong Vp's and returned clean chargeability data. This is demonstrated in the following figures. Figure 6 shows data from the P<C set where decay curves were clean over the entire line, and Figure 7 shows data from the C<P set with noisy decay curves. Decay curves such as these were removed before modeling. Figure 6 also shows early-time EM-coupling, indicated by the steep positive slope of the curves at early times. The chargeability values were calculated using a delayed time-window (275-1950 ms) to avoid the EM affected portion of the decay curve.

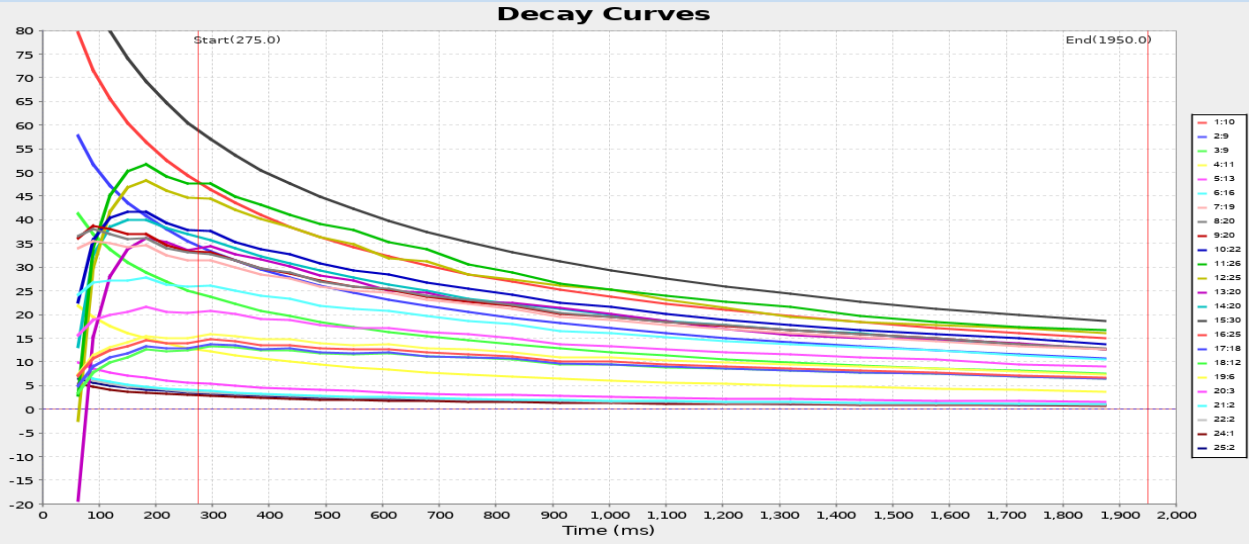


Figure 6: Clean decay curves when the current station is north of the potential stations (L3900E, Station 1025N)

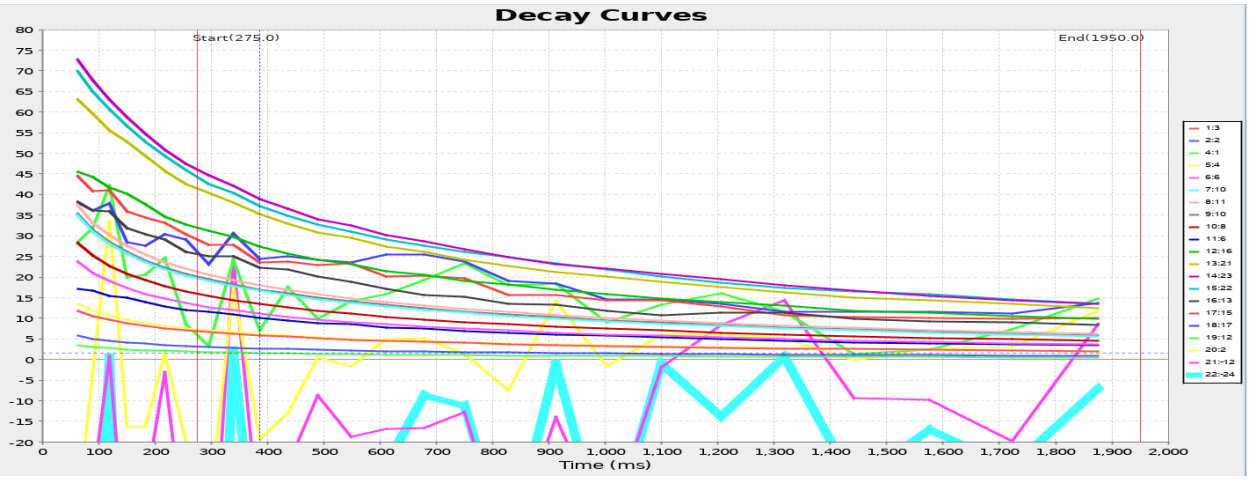


Figure 7: Noisy decay curves observed when the current station is south of the potential stations (L3900E, Station -125N)

7. Deliverables

This logistics report and maps are provided as two paper copies and digitally in PDF format. The geophysical survey data is provided digitally on the included CD. A brief description of the provided data is below.

- 2DIP Data – Raw DCIP data export as a .txt file
- Locations – Locations of survey stations with DEM elevations
- Logistics report
- Maps (Location and grid maps)
- 2D Inversion Models
  - UBC – Inverted models in UBC-GIF standard format
  - XYZ – ASCII format of models converted from UBC-GIF inversion models. The value at the centre of each model cell is given (res, con)
  - VTK – Inverted models in open-source vtk format: chg, con, and res files
- 2D Inversion Maps
  - Resistivity and chargeability pseudosections, decimated for currents trailing dipoles and currents leading the dipoles locations (C<P and C>P)
  - Inverted resistivity and chargeability section maps for each line. One inversion is provided for each line; consisting of the C<P, C>P datasets merged
- 3D Inversions Models
  - UBC – Inverted models in UBC-GIF standard format (UTM coordinates)
  - XYZ – ASCII format of models converted from UBC-GIF inversion models. The value at the centre of each model cell is given
  - VTK – Inverted models in open-source vtk format: chg, con, res, and sen files
  - All model files are provided (.msh, .con, .res, .chg, sensitivity)
- 3D Inversion Maps

- Resistivity and chargeability plan maps at constant depth below topography
- Plan maps in GeoTiff format
- Section maps along survey lines

Respectively submitted,

Nathan Anderson, B.Sc

Field Geophysicist

SJ Geophysics Ltd.

Ross Polutnik, P.Geo

Geophysicist

SJ Geophysics Ltd.

Appendix A: Survey Details

Mikwam Grid

Line	Series	Type	Start Station	End Station	Survey Length (m)
900	E	Rc/Tx	-650	175	825
1100	E	Rc/Tx	-650	350	1000
1300	E	Rc/Tx	-650	350	1000
1500	E	Rc/Tx	-650	350	1000
1700	E	Rc/Tx	-650	350	1000
1900	E	Rc/Tx	-650	350	1000
2100	E	Rc/Tx	-850	750	1600
2200	E	Rc/Tx	-850	750	1600
2300	E	Rc/Tx	-850	750	1600
2400	E	Rc/Tx	-850	750	1600
2500	E	Rc/Tx	-850	750	1600
2600	E	Rc/Tx	-850	750	1600
2700	E	Rc/Tx	-850	750	1600
2900	E	Rc/Tx	-750	750	1500
3100	E	Rc/Tx	-250	750	1000
3300	E	Rc/Tx	-250	750	1000
3500	E	Rc/Tx	-250	950	1200
3700	E	Rc/Tx	-250	950	1200
3900	E	Rc/Tx	-250	1050	1300
0	N	Rc	900	1100	200
0	N	Rc	1300	1500	200
0	N	Rc	1700	1900	200
0	N	Rc	2200	2400	200
0	N	Rc	2600	2700	100
0	N	Rc	2900	3100	200

Line	Series	Type	Start Station	End Station	Survey Length (m)
0	N	Rc	3300	3500	200
0	N	Rc	3700	3900	200

Total Linear Metres:

Cross-line = 24,225

Base-line = 1,500

Rc = Receiver Line, Tx = Transmitter Line

Appendix B: Instrument Specifications

Volterra Acquisition Unit (Dabtube 7000 Series)

Technical:

Input impedance:	20 MΩ
Input overvoltage protection:	5.6 V
ADC bit resolution:	24-bit
Internal memory:	Storage Capacity 16 GB
Number of inputs:	4
Synchronization:	GPS
Selectable Sampling Rates (samples/second):	128000, 64000, 32000, 16000, 8000, 4000, 2000, 1000
Common mode rejection:	More than 80 dB (for Rs=0)
Voltage sensitivity:	Range: -5.0 to +5.0 V (24 bit) Custom Gain available

General:

Dimensions:	Diameter: 5.5 cm, Length: 60 cm
Weight:	0.85 kg
Battery:	3.6 V internal
Operating temperature range:	-40 ^{o}C to 40 ^{o}C

GDD Tx II IP Transmitter

Input voltage:	120V / 60 Hz or 240V / 50Hz (optional)
Output power:	3.6 kW maximum
Output voltage:	150 to 2400 V
Output current:	0.030 to 10 A
Time domain:	1, 2, 4, 8 second on/off cycle.
Operating temp. range:	-40^{0}C to +65^{0} C
Display:	Digital LCD read to 0.001A
Dimensions (h w d):	34 x 21 x 39 cm
Weight:	20 kg

Appendix C: Geophysical Techniques

IP Method

The time domain IP technique energizes the ground by injecting square wave current pulses via a pair of current electrodes. During current injection, the apparent (bulk) resistivity of the ground is calculated from the measured primary voltage and the input current. Following current injection, a time decaying voltage is measured at the receiver electrodes. This IP effect measures the amount of polarizable (or "chargeable") particles in the subsurface rock.

Under ideal circumstances, high chargeability corresponds to disseminated metallic sulfides. Unfortunately, IP responses are rarely uniquely interpretable as other rock materials are also chargeable, such as some graphitic rocks, clays, and some metamorphic rocks (e.g., serpentinite). Therefore, it is prudent from a geological perspective to incorporate other data sets to assist in interpretation.

IP and resistivity measurements are generally considered repeatable to within about five percent. However, changing field conditions, such as variable water content or electrode contact, reduce the overall repeatability. These measurements are influenced to a large degree by the rock materials near the surface or, more precisely, near the measurement electrodes. In the past, interpretation of a traditional IP pseudosection was often uncertain because strong responses located near the surface could mask a weaker one at depth. Geophysical inversion techniques help to overcome this uncertainty.

Appendix D: Field Data Processing & Quality Assurance Procedures

Volterra-IP Data

The Volterra-IP data go through a series of quality assurance checks both in the field and in the office to ensure that the data are of good quality. At the end of each acquisition day the recorded signal was downloaded from the Volterra acquisition units to a personal computer. The signals were then clipped to the GPS time windows of each current injection, lightly filtered for noise, and imported into SJ Geophysics' proprietary QA/QC software package called JavIP. This software package integrates location data with DCIP data in order to calculate the apparent resistivity and apparent chargeability values. JavIP contains interactive quality control tools to allow the field geophysicist to display decay curves, view a dot plot of the calculated parameters, and manually reject bad data points.

The majority of the data points flagged for removal were due to null-coupling, a phenomena typical in IP surveys related to the survey configuration. Null-coupling occurs when a receiver dipole is sub-parallel to lines of constant potential, leading to a significant decrease in signal strength and corresponding poor data quality. Additional data can also be deemed untrustworthy due to low signal quality or dipoles being inadvertently disconnected (usually due to animal activity).

After the first data quality review in the field, the database was delivered to SJ Geophysics' head office for a second review. The data were then carefully checked to ensure that erroneous data points had been removed and were not passed along to the final stage of processing: the inversion.

Appendix E: Geophysical Inversion

The purpose of geophysical inversion is to estimate the 3D distribution of subsurface physical properties (density, resistivity, chargeability, and magnetic susceptibility) from a series of geophysical measurements collected at the surface. Unfortunately this is a challenging problem – the subsurface distribution of physical properties is complex and only a finite number of measurements can be collected. These complications lead to an under-determined problem. As a result, there are many different possible 3D physical property models that can be obtained which mathematically fit the observed data. Utilizing known geological and geophysical information to evaluate the model allows the best or most geologically realistic model to be selected and leads to a better understanding of the subsurface.

Geophysical inversions are commonly performed for every survey carried out by SJ Geophysics. Several inversion programs are available, but SJ Geophysics primarily uses the UBC-GIF algorithms (e.g. DCIP2D, DCIP3D, MAG3D, GRAV3D) which were developed by a consortium of major mining companies under the auspices of the University of British Columbia's Geophysical Inversion Facility.

In general, multiple inversions are carried out for each dataset and the resultant inversion models are compared with known information to evaluate the model. For example, known geology, drill assays, the estimated depth of investigation, and the quality of the input data are all used during the evaluation. The most geologically reasonable model that fits the data is then chosen as the best model. When available, additional information such as geological boundaries and down-hole geophysical data can be incorporated into the inversion in order to constrain the inversion model.

Once the final inversion model is selected, the model is gridded and mapped for interpretation. Typically, cross-sections and plan maps are created, sliced at different depths beneath the surface. The inversion results can be visualized in 3D using open source software packages such as Mayavi and Paraview in both 2D and 3D views. Additional data can then be overlain to aid in interpretation and help facilitate the identification of potential drilling targets.

Assay Certificates

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

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

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

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: March 18, 2019
Report Date: April 17, 2019
Page: 1 of 4

CERTIFICATE OF ANALYSIS TIM19000245.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID:
P.O. Number
Number of Samples: 72

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

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	69	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	3	Sort, label and box pulps			TIM
FA430	72	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	72	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS

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

CC: Jeremy Niemi

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Production Manager

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

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 17, 2019

CERTIFICATE OF ANALYSIS TIM19000245.1

		Method	WGHT	FA430
		Analyte	Wgt	Au
		Unit	kg	ppm
		MDL	0.01	0.005
1703001	Drill Core		1.10	0.716
1703002	Drill Core		1.49	4.308
1703003	Drill Core		2.42	0.064
1703004	Drill Core		1.52	0.045
1703005	Drill Core		1.04	0.128
1703006	Drill Core		1.53	0.071
1703007	Drill Core		1.99	0.033
1703008	Drill Core		1.13	0.023
1703009	Drill Core		2.39	1.819
1703010	Pulp		0.07	6.632
1703011	Drill Core		1.97	0.637
1703012	Drill Core		1.90	0.832
1703013	Drill Core		1.16	2.030
1703014	Drill Core		1.20	0.214
1703015	Drill Core		1.36	0.025
1703016	Drill Core		2.08	<0.005
1703017	Drill Core		2.24	<0.005
1703018	Drill Core		2.14	<0.005
1703019	Drill Core		1.91	<0.005
1703020	Drill Core		2.47	<0.005
1703021	Drill Core		2.08	<0.005
1703022	Drill Core		2.23	<0.005
1703023	Drill Core		2.05	<0.005
1703024	Drill Core		0.96	<0.005
1703025	Drill Core		1.11	<0.005
1703026	Drill Core		2.27	<0.005
1703027	Drill Core		2.41	0.243
1703028	Drill Core		2.30	0.008
1703029	Drill Core		2.51	<0.005
1703030	Drill Core		2.10	<0.005

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 17, 2019

CERTIFICATE OF ANALYSIS TIM19000245.1

Method		WGHT	FA430
Analyte		Wgt	Au
Unit		kg	ppm
MDL		0.01	0.005
1703031	Drill Core	2.05	0.010
1703032	Drill Core	2.27	0.009
1703033	Drill Core	1.99	<0.005
1703034	Drill Core	2.10	0.016
1703035	Pulp	0.06	0.327
1703036	Drill Core	2.78	<0.005
1703037	Drill Core	2.10	0.010
1703038	Drill Core	1.99	0.009
1703039	Drill Core	1.76	<0.005
1703040	Rock	0.23	<0.005
1703041	Drill Core	2.23	<0.005
1703042	Drill Core	2.18	<0.005
1703043	Drill Core	2.23	<0.005
1703044	Drill Core	2.48	0.017
1703045	Drill Core	2.03	<0.005
1703046	Drill Core	2.30	<0.005
1703047	Drill Core	1.27	0.009
1703048	Drill Core	2.33	0.007
1703049	Drill Core	0.74	<0.005
1703050	Drill Core	0.94	<0.005
1703051	Drill Core	2.04	<0.005
1703052	Drill Core	3.06	0.006
1703053	Drill Core	2.24	<0.005
1703054	Drill Core	2.34	0.006
1703055	Drill Core	1.37	0.006
1703056	Drill Core	2.87	0.010
1703057	Drill Core	2.51	0.006
1703058	Drill Core	2.69	<0.005
1703059	Drill Core	2.58	0.010
1703060	Pulp	0.07	6.656

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 17, 2019

CERTIFICATE OF ANALYSIS TIM19000245.1

Method		WGHT	FA430
Analyte		Wgt	Au
Unit		kg	ppm
MDL		0.01	0.005
1703061	Drill Core	2.33	0.008
1703062	Drill Core	2.47	0.629
1703063	Drill Core	2.28	0.017
1703064	Drill Core	2.62	<0.005
1703065	Drill Core	2.27	<0.005
1703066	Drill Core	2.21	0.006
1703067	Drill Core	1.25	0.013
1703068	Drill Core	1.36	<0.005
1703069	Drill Core	2.11	0.010
1703070	Drill Core	2.27	<0.005
1703071	Drill Core	2.39	<0.005
1703072	Drill Core	2.67	<0.005

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

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

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

Project: Mikwam (MK)
Report Date: April 17, 2019

QUALITY CONTROL REPORT TIM19000245.1

		Method	WGHT	FA430
		Analyte	Wgt	Au
		Unit	kg	ppm
		MDL	0.01	0.005
Pulp Duplicates				
1703017	Drill Core		2.24	<0.005
REP 1703017	QC			<0.005
1703051	Drill Core		2.04	<0.005
REP 1703051	QC			<0.005
Core Reject Duplicates				
1703044	Drill Core		2.48	0.017
DUP 1703044	QC			0.009
Reference Materials				
STD OXC145	Standard			0.202
STD OXC145	Standard			0.212
STD OXH139	Standard			1.341
STD OXH139	Standard			1.343
STD OXN134	Standard			8.042
STD OXN134	Standard			7.769
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

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

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

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

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: March 18, 2019
Report Date: April 17, 2019
Page: 1 of 5

CERTIFICATE OF ANALYSIS TIM19000246.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID:
P.O. Number
Number of Samples: 99

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

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	95	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	4	Sort, label and box pulps			TIM
FA430	99	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	99	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS

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

CC: Jeremy Niemi

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Production Manager

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

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 17, 2019

CERTIFICATE OF ANALYSIS TIM19000246.1

Method		WGHT	FA430
Analyte		Wgt	Au
Unit		kg	ppm
MDL		0.01	0.005
1703073	Drill Core	0.64	0.062
1703074	Drill Core	0.58	0.017
1703075	Drill Core	0.60	0.020
1703076	Drill Core	0.98	0.009
1703077	Drill Core	0.50	0.006
1703078	Drill Core	0.68	0.024
1703079	Drill Core	1.09	0.022
1703080	Drill Core	1.20	0.015
1703081	Drill Core	0.95	0.046
1703082	Drill Core	1.40	0.067
1703083	Drill Core	2.01	0.030
1703084	Drill Core	2.11	0.023
1703085	Pulp	0.06	0.349
1703086	Drill Core	1.71	0.019
1703087	Drill Core	0.89	0.016
1703088	Drill Core	1.11	0.018
1703089	Drill Core	1.47	0.012
1703090	Rock	0.33	<0.005
1703091	Drill Core	1.58	0.011
1703092	Drill Core	1.61	0.014
1703093	Drill Core	1.82	0.008
1703094	Drill Core	2.09	0.009
1703095	Drill Core	2.25	0.012
1703096	Drill Core	2.05	0.007
1703097	Drill Core	1.62	<0.005
1703098	Drill Core	1.71	<0.005
1703099	Drill Core	1.56	<0.005
1703100	Drill Core	2.12	0.008
1703101	Drill Core	2.30	<0.005
1703102	Drill Core	2.16	<0.005

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 17, 2019

CERTIFICATE OF ANALYSIS TIM19000246.1

		Method	WGHT	FA430
		Analyte	Wgt	Au
		Unit	kg	ppm
		MDL	0.01	0.005
1703103	Drill Core		1.62	<0.005
1703104	Drill Core		1.55	0.008
1703105	Drill Core		1.73	0.005
1703106	Drill Core		1.87	<0.005
1703107	Drill Core		2.17	<0.005
1703108	Drill Core		1.23	<0.005
1703109	Drill Core		1.70	<0.005
1703110	Pulp		0.06	6.773
1703111	Drill Core		1.44	<0.005
1703112	Drill Core		1.46	<0.005
1703113	Drill Core		2.30	<0.005
1703114	Drill Core		1.82	<0.005
1703115	Drill Core		2.02	0.011
1703116	Drill Core		1.78	0.009
1703117	Drill Core		1.81	0.008
1703118	Drill Core		1.79	0.015
1703119	Drill Core		1.98	0.035
1703120	Drill Core		2.11	0.016
1703121	Drill Core		2.07	0.018
1703122	Drill Core		1.79	0.019
1703123	Drill Core		2.26	0.015
1703124	Drill Core		1.83	0.012
1703125	Drill Core		1.17	0.053
1703126	Drill Core		1.04	0.070
1703127	Drill Core		2.66	0.034
1703128	Drill Core		1.61	0.078
1703129	Drill Core		2.36	0.048
1703130	Drill Core		2.44	0.058
1703131	Drill Core		2.19	0.212
1703132	Drill Core		0.85	0.399

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 17, 2019

CERTIFICATE OF ANALYSIS TIM19000246.1

Method		WGHT	FA430
Analyte		Wgt	Au
Unit		kg	ppm
MDL		0.01	0.005
1703133	Drill Core	2.38	4.994
1703134	Drill Core	2.36	3.948
1703135	Pulp	0.07	0.340
1703136	Drill Core	1.69	4.345
1703137	Drill Core	2.11	1.000
1703138	Drill Core	1.75	1.749
1703139	Drill Core	2.39	2.309
1703140	Rock	0.41	0.005
1703141	Drill Core	1.91	2.487
1703142	Drill Core	3.11	0.555
1703143	Drill Core	0.88	0.435
1703144	Drill Core	1.49	0.567
1703145	Drill Core	1.24	0.395
1703146	Drill Core	0.75	0.290
1703147	Drill Core	1.50	1.781
1703148	Drill Core	3.56	1.480
1703149	Drill Core	0.93	0.906
1703150	Drill Core	0.84	0.984
1703151	Drill Core	2.03	1.286
1703152	Drill Core	2.08	1.718
1703153	Drill Core	1.63	1.530
1703154	Drill Core	1.20	5.934
1703155	Drill Core	1.38	2.784
1703156	Drill Core	2.07	1.485
1703157	Drill Core	1.40	5.411
1703158	Drill Core	1.25	2.826
1703159	Drill Core	1.02	0.458
1703160	Pulp	0.07	6.613
1703161	Drill Core	2.77	0.099
1703162	Drill Core	2.33	0.080

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 17, 2019

CERTIFICATE OF ANALYSIS TIM19000246.1

Method		WGHT	FA430
Analyte		Wgt	Au
Unit		kg	ppm
MDL		0.01	0.005
1703163	Drill Core	1.52	0.046
1703164	Drill Core	2.78	0.041
1703165	Drill Core	2.11	0.034
1703166	Drill Core	2.53	0.104
1703167	Drill Core	1.36	0.118
1703168	Drill Core	2.17	0.061
1703169	Drill Core	2.09	0.031
1703170	Drill Core	2.43	0.078
1703171	Drill Core	2.06	0.141

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

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

Project: Mikwam (MK)
Report Date: April 17, 2019

QUALITY CONTROL REPORT TIM19000246.1

		Method	WGHT	FA430
		Analyte	Wgt	Au
		Unit	kg	ppm
		MDL	0.01	0.005
Pulp Duplicates				
1703086	Drill Core		1.71	0.019
REP 1703086	QC			0.023
1703139	Drill Core		2.39	2.309
REP 1703139	QC			2.238
Core Reject Duplicates				
1703074	Drill Core		0.58	0.017
DUP 1703074	QC			0.016
1703108	Drill Core		1.23	<0.005
DUP 1703108	QC			<0.005
1703142	Drill Core		3.11	0.555
DUP 1703142	QC			0.574
Reference Materials				
STD OXC145	Standard			0.205
STD OXC145	Standard			0.208
STD OXC145	Standard			0.207
STD OXC145	Standard			0.209
STD OXC145	Standard			0.207
STD OXC145	Standard			0.212
STD OXH139	Standard			1.287
STD OXH139	Standard			1.314
STD OXH139	Standard			1.326
STD OXH139	Standard			1.319
STD OXH139	Standard			1.379
STD OXH139	Standard			1.343
STD OXN134	Standard			7.516
STD OXN134	Standard			7.592
STD OXN134	Standard			7.608
STD OXN134	Standard			7.619

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

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

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

Project: Mikwam (MK)
Report Date: April 17, 2019

QUALITY CONTROL REPORT TIM19000246.1

		WGHT Wgt kg 0.01	FA430 Au ppm 0.005
STD OXN134	Standard		7.576
STD OXN134	Standard		7.769
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		<0.005
BLK	Blank		<0.005
Prep Wash			
ROCK-TIM	Prep Blank		<0.005
ROCK-TIM	Prep Blank		<0.005

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

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

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

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: March 18, 2019
Report Date: April 25, 2019
Page: 1 of 2

CERTIFICATE OF ANALYSIS TIM19000247.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID:
P.O. Number
Number of Samples: 29

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

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	28	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	1	Sort, label and box pulps			TIM
FA430	29	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	29	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS

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

CC: Jeremy Niemi

SCOTT INGLIS
Fire Assay Manager

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 25, 2019

CERTIFICATE OF ANALYSIS TIM19000247.1

		Method	WGHT	FA430
		Analyte	Wgt	Au
		Unit	kg	ppm
		MDL	0.01	0.005
1703172	Drill Core		1.66	0.310
1703173	Drill Core		1.95	1.514
1703174	Drill Core		1.29	0.565
1703175	Drill Core		1.23	0.026
1703176	Drill Core		1.19	0.010
1703177	Drill Core		2.30	0.029
1703178	Drill Core		2.02	0.021
1703179	Drill Core		2.42	0.024
1703180	Drill Core		2.27	0.019
1703181	Drill Core		2.23	0.005
1703182	Drill Core		2.42	0.025
1703183	Drill Core		2.16	0.010
1703184	Drill Core		2.36	<0.005
1703185	Pulp		0.07	0.345
1703186	Drill Core		1.89	<0.005
1703187	Drill Core		1.90	<0.005
1703188	Drill Core		2.38	0.292
1703189	Drill Core		2.33	0.220
1703190	Rock		0.39	<0.005
1703191	Drill Core		1.55	0.492
1703192	Drill Core		2.06	0.493
1703193	Drill Core		1.44	0.066
1703194	Drill Core		2.03	0.014
1703195	Drill Core		2.36	<0.005
1703196	Drill Core		2.22	0.006
1703197	Drill Core		2.17	<0.005
1703198	Drill Core		2.38	<0.005
1703199	Drill Core		1.13	<0.005
1703200	Drill Core		1.03	<0.005

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

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

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

Project: Mikwam (MK)
Report Date: April 25, 2019

QUALITY CONTROL REPORT TIM19000247.1

		Method	WGHT	FA430
		Analyte	Wgt	Au
		Unit	kg	ppm
		MDL	0.01	0.005
Pulp Duplicates				
1703180	Drill Core		2.27	0.019
REP 1703180	QC			0.014
Core Reject Duplicates				
1703189	Drill Core		2.33	0.220
DUP 1703189	QC			0.215
Reference Materials				
STD OXC145	Standard			0.202
STD OXC145	Standard			0.213
STD OXC145	Standard			0.210
STD OXH139	Standard			1.341
STD OXH139	Standard			1.355
STD OXH139	Standard			1.354
STD OXN134	Standard			8.042
STD OXN134	Standard			7.641
STD OXN134	Standard			7.643
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			0.010
ROCK-TIM	Prep Blank			0.010

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

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

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

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: March 28, 2019
Report Date: May 01, 2019
Page: 1 of 5

CERTIFICATE OF ANALYSIS TIM19000278.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID: Batch 2019-04
P.O. Number
Number of Samples: 100

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

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	95	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	4	Sort, label and box pulps			TIM
FA430	99	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	99	Environmental disposal charge-Fire assay lead waste			TIM
FA530	3	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

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: May 01, 2019

CERTIFICATE OF ANALYSIS TIM19000278.1

		Method	WGHT	FA430	FA530
		Analyte	Wgt	Au	Au
		Unit	kg	ppm	gm/t
		MDL	0.01	0.005	0.9
1703201	Drill Core		2.60	0.005	
1703202	Drill Core		2.11	0.008	
1703203	Drill Core		2.42	0.009	
1703204	Drill Core		2.70	0.012	
1703205	Drill Core		1.83	0.021	
1703206	Drill Core		2.28	0.033	
1703207	Drill Core		2.11	0.077	
1703208	Drill Core		2.45	0.090	
1703209	Drill Core		2.06	0.052	
1703210	Pulp		0.10	6.689	
1703211	Drill Core		2.14	0.097	
1703212	Drill Core		1.44	0.020	
1703213	Drill Core		2.47	0.121	
1703214	Drill Core		2.06	0.014	
1703215	Drill Core		2.36	0.040	
1703216	Drill Core		2.28	0.087	
1703217	Drill Core		1.62	0.639	
1703218	Drill Core		2.33	0.740	
1703219	Drill Core		3.27	1.797	
1703220	Drill Core		2.63	0.821	
1703221	Drill Core		1.17	0.115	
1703222	Drill Core		2.27	0.041	
1703223	Drill Core		2.18	2.520	
1703224	Drill Core		1.13	0.568	
1703225	Drill Core		1.06	0.714	
1703226	Drill Core		1.81	0.927	
1703227	Drill Core		2.42	2.796	
1703228	Drill Core		2.20	2.595	
1703229	Drill Core		2.93	>10	10.5
1703230	Drill Core		3.04	>10	13.9

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: May 01, 2019

CERTIFICATE OF ANALYSIS TIM19000278.1

Method		WGHT	FA430	FA530
Analyte		Wgt	Au	Au
Unit		kg	ppm	gm/t
MDL		0.01	0.005	0.9
1703231	Drill Core	2.32	5.111	
1703232	Drill Core	1.71	8.037	
1703233	Drill Core	2.15	2.373	
1703234	Drill Core	1.90	0.237	
1703235	Pulp	0.11	0.346	
1703236	Drill Core	2.66	0.714	
1703237	Drill Core	2.58	2.369	
1703238	Drill Core	1.89	0.324	
1703239	Drill Core	3.29	7.580	
1703240	Rock	0.31	0.008	
1703241	Drill Core	3.73	3.524	
1703242	Drill Core	2.04	0.758	
1703243	Drill Core	2.93	5.269	
1703244	Drill Core	2.68	9.639	
1703245	Drill Core	2.73	>10	12.4
1703246	Drill Core	2.13	0.447	
1703247	Drill Core	1.38	1.543	
1703248	Drill Core	2.07	6.575	
1703249	Drill Core	0.85	2.153	
1703250	Drill Core	0.67	2.210	
1703251	Drill Core	2.92	0.593	
1703252	Drill Core	2.52	1.221	
1703253	Drill Core	2.08	0.147	
1703254	Drill Core	2.27	1.648	
1703255	Drill Core	2.34	0.022	
1703256	Drill Core	1.85	0.135	
1703257	Drill Core	2.21	<0.005	
1703258	Drill Core	2.27	0.009	
1703259	Drill Core	1.17	0.009	
1703260	Pulp	0.10	6.630	

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: May 01, 2019

CERTIFICATE OF ANALYSIS TIM19000278.1

Method		WGHT	FA430	FA530
Analyte		Wgt	Au	Au
Unit		kg	ppm	gm/t
MDL		0.01	0.005	0.9
1703261	Drill Core	1.68	0.051	
1703262	Drill Core	2.09	0.010	
1703263	Drill Core	2.40	0.006	
1703264	Drill Core	2.14	0.019	
1703265	Drill Core	2.48	0.007	
1703266	Drill Core	2.39	0.007	
1703267	Drill Core	2.25	<0.005	
1703268	Drill Core	1.64	<0.005	
1703269	Drill Core	0.70	<0.005	
1703270	Drill Core	1.50	0.007	
1703271	Drill Core	2.64	0.020	
1703272	Drill Core	1.46	0.016	
1703273	Drill Core	0.86	0.014	
1703274	Drill Core	0.44	0.010	
1703275	Drill Core	0.42	0.010	
1703276	Drill Core	1.23	0.007	
1703277	Drill Core	0.64	0.013	
1703278	Drill Core	1.11	0.012	
1703279	Drill Core	1.96	0.006	
1703280	Drill Core	1.89	<0.005	
1703281	Drill Core	1.76	<0.005	
1703282	Drill Core	2.28	0.006	
1703283	Drill Core	2.01	0.007	
1703284	Drill Core	1.87	0.007	
1703285	Pulp	0.11	0.333	
1703286	Drill Core	1.89	<0.005	
1703287	Drill Core	1.60	0.006	
1703288	Drill Core	2.26	0.007	
1703289	Drill Core	2.17	0.005	
1703290	Drill Core	L.N.R.	L.N.R.	

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: May 01, 2019

CERTIFICATE OF ANALYSIS TIM19000278.1

Method		WGHT	FA430	FA530
Analyte		Wgt	Au	Au
Unit		kg	ppm	gm/t
MDL		0.01	0.005	0.9
1703291	Drill Core	1.10	0.008	
1703292	Drill Core	2.39	0.336	
1703293	Drill Core	1.93	0.100	
1703294	Drill Core	2.26	0.057	
1703295	Drill Core	2.98	0.110	
1703296	Drill Core	2.62	0.023	
1703297	Drill Core	1.69	0.517	
1703298	Drill Core	2.61	0.532	
1703299	Drill Core	1.02	0.031	
1703300	Drill Core	1.34	0.025	

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

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

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

Project: Mikwam (MK)
Report Date: May 01, 2019

QUALITY CONTROL REPORT TIM19000278.1

	Method	WGHT	FA430	FA530
	Analyte	Wgt	Au	Au
	Unit	kg	ppm	gm/t
	MDL	0.01	0.005	0.9
Pulp Duplicates				
1703227	Drill Core	2.42	2.796	
REP 1703227	QC		2.847	
1703229	Drill Core	2.93	>10	10.5
REP 1703229	QC			10.1
1703257	Drill Core	2.21	<0.005	
REP 1703257	QC		0.008	
Core Reject Duplicates				
1703225	Drill Core	1.06	0.714	
DUP 1703225	QC		0.842	
1703259	Drill Core	1.17	0.009	
DUP 1703259	QC		0.008	
1703293	Drill Core	1.93	0.100	
DUP 1703293	QC		0.081	
Reference Materials				
STD OXC145	Standard		0.217	
STD OXC145	Standard		0.213	
STD OXC145	Standard		0.210	
STD OXH139	Standard		1.337	
STD OXH139	Standard		1.355	
STD OXH139	Standard		1.354	
STD OXN134	Standard		7.738	
STD OXN134	Standard		7.641	
STD OXN134	Standard		7.643	
STD OXP116	Standard			15.3
STD OXQ90	Standard			25.7
STD OXQ90	Standard			25.4
STD OXC145 Expected			0.212	
STD OXN134 Expected			7.667	

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

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

Project: Mikwam (MK)
Report Date: May 01, 2019

QUALITY CONTROL REPORT TIM19000278.1

		WGHT Wgt kg 0.01	FA430 Au ppm 0.005	FA530 Au gm/t 0.9
STD OXH139 Expected			1.312	
STD OXP116 Expected				14.92
STD OXQ90 Expected				24.88
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			<0.9
Prep Wash				
ROCK-TIM	Prep Blank		<0.005	
ROCK-TIM	Prep Blank		<0.005	

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

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

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

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: March 28, 2019
Report Date: April 25, 2019
Page: 1 of 5

CERTIFICATE OF ANALYSIS TIM19000279.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID: Batch 2019-04
P.O. Number
Number of Samples: 100

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

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	96	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	4	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

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

CC: Jeremy Niemi

SCOTT INGLIS
Fire Assay Manager

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 25, 2019

CERTIFICATE OF ANALYSIS TIM19000279.1

		Method	WGHT	FA430
		Analyte	Wgt	Au
		Unit	kg	ppm
		MDL	0.01	0.005
1703301	Drill Core		2.11	<0.005
1703302	Drill Core		2.42	<0.005
1703303	Drill Core		2.66	<0.005
1703304	Drill Core		1.87	0.013
1703305	Drill Core		2.91	0.074
1703306	Drill Core		2.12	0.008
1703307	Drill Core		1.47	<0.005
1703308	Drill Core		2.12	0.015
1703309	Drill Core		1.86	0.016
1703310	Pulp		0.10	6.539
1703311	Drill Core		3.94	<0.005
1703312	Drill Core		1.66	<0.005
1703313	Drill Core		1.40	<0.005
1703314	Drill Core		1.65	0.022
1703315	Drill Core		1.61	<0.005
1703316	Drill Core		3.05	0.074
1703317	Drill Core		2.54	0.143
1703318	Drill Core		2.85	0.027
1703319	Drill Core		2.54	0.006
1703320	Drill Core		2.56	0.029
1703321	Drill Core		2.45	0.361
1703322	Drill Core		2.11	1.172
1703323	Drill Core		2.17	2.636
1703324	Drill Core		1.00	4.568
1703325	Drill Core		1.19	5.740
1703326	Drill Core		2.14	3.513
1703327	Drill Core		1.98	0.466
1703328	Drill Core		2.55	2.570
1703329	Drill Core		2.71	2.703
1703330	Drill Core		2.37	1.043

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 25, 2019

CERTIFICATE OF ANALYSIS TIM19000279.1

		Method	WGHT	FA430
		Analyte	Wgt	Au
		Unit	kg	ppm
		MDL	0.01	0.005
1703331	Drill Core		3.02	0.872
1703332	Drill Core		2.75	0.113
1703333	Drill Core		2.25	0.040
1703334	Drill Core		2.09	0.115
1703335	Pulp		0.10	0.335
1703336	Drill Core		2.28	0.014
1703337	Drill Core		2.44	0.025
1703338	Drill Core		2.10	0.022
1703339	Drill Core		2.20	0.015
1703340	Rock		0.39	<0.005
1703341	Drill Core		2.18	0.009
1703342	Drill Core		1.95	0.164
1703343	Drill Core		2.53	0.137
1703344	Drill Core		2.69	0.127
1703345	Drill Core		1.81	1.809
1703346	Drill Core		2.35	2.633
1703347	Drill Core		2.28	2.461
1703348	Drill Core		2.57	3.108
1703349	Drill Core		1.02	2.818
1703350	Drill Core		1.19	6.451
1703351	Drill Core		2.38	3.158
1703352	Drill Core		1.97	0.655
1703353	Drill Core		2.68	2.785
1703354	Drill Core		2.32	1.718
1703355	Drill Core		2.24	2.045
1703356	Drill Core		2.16	0.951
1703357	Drill Core		2.17	0.226
1703358	Drill Core		2.02	0.035
1703359	Drill Core		2.24	0.082
1703360	Pulp		0.10	6.345

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 25, 2019

CERTIFICATE OF ANALYSIS TIM19000279.1

Method		WGHT	FA430
Analyte		Wgt	Au
Unit		kg	ppm
MDL		0.01	0.005
1703361	Drill Core	2.42	0.092
1703362	Drill Core	2.36	0.036
1703363	Drill Core	2.11	0.012
1703364	Drill Core	1.98	0.008
1703365	Drill Core	2.20	<0.005
1703366	Drill Core	2.33	<0.005
1703367	Drill Core	1.73	<0.005
1703368	Drill Core	2.16	<0.005
1703369	Drill Core	0.81	0.006
1703370	Drill Core	1.41	0.009
1703371	Drill Core	2.62	0.009
1703372	Drill Core	2.47	0.016
1703373	Drill Core	1.56	0.006
1703374	Drill Core	0.59	0.009
1703375	Drill Core	0.56	0.009
1703376	Drill Core	1.97	0.016
1703377	Drill Core	2.52	0.020
1703378	Drill Core	2.06	0.015
1703379	Drill Core	2.96	0.046
1703380	Drill Core	0.77	0.051
1703381	Drill Core	1.88	0.075
1703382	Drill Core	2.31	0.052
1703383	Drill Core	2.20	0.065
1703384	Drill Core	1.59	0.156
1703385	Pulp	0.10	0.331
1703386	Drill Core	2.09	0.041
1703387	Drill Core	2.11	0.008
1703388	Drill Core	1.95	0.024
1703389	Drill Core	2.09	0.030
1703390	Rock	0.45	<0.005

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 25, 2019

CERTIFICATE OF ANALYSIS TIM19000279.1

		Method	WGHT	FA430
		Analyte	Wgt	Au
		Unit	kg	ppm
		MDL	0.01	0.005
1703391	Drill Core		2.19	0.057
1703392	Drill Core		2.28	0.064
1703393	Drill Core		1.29	0.073
1703394	Drill Core		2.82	0.370
1703395	Drill Core		1.99	0.377
1703396	Drill Core		2.38	0.033
1703397	Drill Core		1.69	0.028
1703398	Drill Core		2.19	0.032
1703399	Drill Core		0.76	0.052
1703400	Drill Core		0.74	0.059

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

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

Project: Mikwam (MK)
Report Date: April 25, 2019

QUALITY CONTROL REPORT TIM19000279.1

		Method	WGHT	FA430
		Analyte	Wgt	Au
		Unit	kg	ppm
		MDL	0.01	0.005
Pulp Duplicates				
1703398	Drill Core		2.19	0.032
REP 1703398	QC			0.032
Core Reject Duplicates				
1703328	Drill Core		2.55	2.570
DUP 1703328	QC			2.407
1703362	Drill Core		2.36	0.036
DUP 1703362	QC			0.037
1703396	Drill Core		2.38	0.033
DUP 1703396	QC			0.040
Reference Materials				
STD OXC145	Standard			0.213
STD OXC145	Standard			0.210
STD OXC145	Standard			0.210
STD OXH139	Standard			1.355
STD OXH139	Standard			1.354
STD OXH139	Standard			1.306
STD OXN134	Standard			7.641
STD OXN134	Standard			7.643
STD OXN134	Standard			7.515
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

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

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

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

Project: Mikwam (MK)
Report Date: April 25, 2019

QUALITY CONTROL REPORT TIM19000279.1

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

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

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

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

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: April 01, 2019
Report Date: April 29, 2019
Page: 1 of 5

CERTIFICATE OF ANALYSIS TIM19000299.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID: Batch 2019-05
P.O. Number
Number of Samples: 100

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

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	97	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	3	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

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

CC: Jeremy Niemi

SCOTT INGLIS
Fire Assay Manager

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 29, 2019

CERTIFICATE OF ANALYSIS TIM19000299.1

		Method	WGHT	FA430
		Analyte	Wgt	Au
		Unit	kg	ppm
		MDL	0.01	0.005
1703401	Drill Core		2.23	0.024
1703402	Drill Core		2.71	0.060
1703403	Drill Core		1.40	2.120
1703404	Drill Core		2.22	2.026
1703405	Drill Core		2.28	0.011
1703406	Drill Core		1.93	0.058
1703407	Drill Core		2.92	9.265
1703408	Drill Core		2.27	4.177
1703409	Drill Core		2.41	4.915
1703410	Rock		0.24	<0.005
1703411	Drill Core		1.26	0.530
1703412	Drill Core		1.55	1.462
1703413	Drill Core		2.83	1.988
1703414	Drill Core		2.66	1.104
1703415	Drill Core		1.64	0.685
1703416	Drill Core		0.86	5.900
1703417	Drill Core		3.39	1.840
1703418	Drill Core		2.22	0.460
1703419	Drill Core		2.27	0.302
1703420	Drill Core		2.35	0.404
1703421	Drill Core		1.88	0.364
1703422	Drill Core		2.72	0.430
1703423	Drill Core		1.09	0.195
1703424	Drill Core		1.00	0.099
1703425	Drill Core		1.05	0.122
1703426	Drill Core		1.16	0.088
1703427	Drill Core		2.43	0.061
1703428	Drill Core		2.42	0.051
1703429	Drill Core		2.40	0.023
1703430	Drill Core		2.25	<0.005

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 29, 2019

CERTIFICATE OF ANALYSIS TIM19000299.1

		Method	WGHT	FA430
		Analyte	Wgt	Au
		Unit	kg	ppm
		MDL	0.01	0.005
1703431	Drill Core		1.34	<0.005
1703432	Drill Core		0.87	0.038
1703433	Drill Core		2.96	<0.005
1703434	Drill Core		2.49	0.005
1703435	Pulp		0.06	0.342
1703436	Drill Core		2.11	0.021
1703437	Drill Core		2.98	<0.005
1703438	Drill Core		1.68	0.006
1703439	Drill Core		1.98	0.034
1703440	Rock		0.28	<0.005
1703441	Drill Core		2.43	0.006
1703442	Drill Core		1.22	<0.005
1703443	Drill Core		1.79	<0.005
1703444	Drill Core		2.61	<0.005
1703445	Drill Core		2.28	0.016
1703446	Drill Core		2.13	<0.005
1703447	Drill Core		1.57	<0.005
1703448	Drill Core		1.87	<0.005
1703449	Drill Core		0.60	0.010
1703450	Drill Core		0.66	0.008
1703451	Drill Core		1.90	0.009
1703452	Drill Core		2.14	<0.005
1703453	Drill Core		2.59	<0.005
1703454	Drill Core		1.81	<0.005
1703455	Drill Core		2.68	0.030
1703456	Drill Core		2.16	0.008
1703457	Drill Core		1.74	0.007
1703458	Drill Core		1.54	0.006
1703459	Drill Core		2.39	<0.005
1703460	Pulp		0.07	6.542

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 29, 2019

CERTIFICATE OF ANALYSIS TIM19000299.1

Method		WGHT	FA430
Analyte		Wgt	Au
Unit		kg	ppm
MDL		0.01	0.005
1703461	Drill Core	0.85	<0.005
1703462	Drill Core	0.81	0.007
1703463	Drill Core	2.19	<0.005
1703464	Drill Core	2.24	0.014
1703465	Drill Core	1.89	<0.005
1703466	Drill Core	2.29	<0.005
1703467	Drill Core	1.65	<0.005
1703468	Drill Core	0.69	0.309
1703469	Drill Core	1.11	0.034
1703470	Drill Core	2.49	0.007
1703471	Drill Core	1.35	0.293
1703472	Drill Core	0.87	0.049
1703473	Drill Core	2.50	0.059
1703474	Drill Core	0.40	0.413
1703475	Drill Core	0.44	0.151
1703476	Drill Core	1.86	1.695
1703477	Drill Core	2.61	1.388
1703478	Drill Core	2.92	1.143
1703479	Drill Core	2.80	0.431
1703480	Drill Core	3.17	0.513
1703481	Drill Core	2.72	0.798
1703482	Drill Core	3.03	0.098
1703483	Drill Core	2.38	0.730
1703484	Drill Core	2.74	1.120
1703485	Pulp	0.06	0.342
1703486	Drill Core	2.46	4.546
1703487	Drill Core	2.15	1.825
1703488	Drill Core	2.73	1.353
1703489	Drill Core	3.16	0.029
1703490	Rock	0.32	<0.005

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 29, 2019

CERTIFICATE OF ANALYSIS TIM19000299.1

Method		WGHT	FA430
Analyte		Wgt	Au
Unit		kg	ppm
MDL		0.01	0.005
1703491	Drill Core	2.21	0.009
1703492	Drill Core	2.40	0.013
1703493	Drill Core	0.84	0.024
1703494	Drill Core	0.75	0.010
1703495	Drill Core	2.37	<0.005
1703496	Drill Core	2.19	<0.005
1703497	Drill Core	2.01	<0.005
1703498	Drill Core	2.23	<0.005
1703499	Drill Core	0.48	0.009
1703500	Drill Core	0.47	<0.005

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

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

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

Project: Mikwam (MK)
Report Date: April 29, 2019

QUALITY CONTROL REPORT TIM19000299.1

		Method	WGHT	FA430
		Analyte	Wgt	Au
		Unit	kg	ppm
		MDL	0.01	0.005
Pulp Duplicates				
1703452	Drill Core		2.14	<0.005
REP 1703452	QC			0.006
1703482	Drill Core		3.03	0.098
REP 1703482	QC			0.075
Core Reject Duplicates				
1703419	Drill Core		2.27	0.302
DUP 1703419	QC			0.273
1703453	Drill Core		2.59	<0.005
DUP 1703453	QC			<0.005
1703487	Drill Core		2.15	1.825
DUP 1703487	QC			1.618
Reference Materials				
STD OXC145	Standard			0.210
STD OXC145	Standard			0.210
STD OXC145	Standard			0.216
STD OXH139	Standard			1.354
STD OXH139	Standard			1.306
STD OXH139	Standard			1.335
STD OXH139	Standard			1.388
STD OXN134	Standard			7.643
STD OXN134	Standard			7.515
STD OXN134	Standard			7.510
STD OXN134	Standard			7.764
STD OXC145 Expected				0.212
STD OXN134 Expected				7.667
STD OXH139 Expected				1.312
BLK	Blank			<0.005
BLK	Blank			<0.005

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

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

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

Project: Mikwam (MK)
Report Date: April 29, 2019

QUALITY CONTROL REPORT TIM19000299.1

		WGHT Wgt kg 0.01	FA430 Au ppm 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

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

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

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

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: April 01, 2019
Report Date: April 29, 2019
Page: 1 of 5

CERTIFICATE OF ANALYSIS TIM19000300.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID: Batch 2019-05
P.O. Number
Number of Samples: 101

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

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	97	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	4	Sort, label and box pulps			TIM
FA430	101	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	101	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS

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

CC: Jeremy Niemi

SCOTT INGLIS
Fire Assay Manager

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

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 29, 2019

CERTIFICATE OF ANALYSIS TIM19000300.1

		Method	WGHT	FA430
		Analyte	Wgt	Au
		Unit	kg	ppm
		MDL	0.01	0.005
1703501	Drill Core		1.33	<0.005
1703502	Drill Core		1.89	0.012
1703503	Drill Core		2.11	<0.005
1703504	Drill Core		2.66	0.008
1703505	Drill Core		2.33	0.006
1703506	Drill Core		2.35	0.026
1703507	Drill Core		2.87	0.074
1703508	Drill Core		2.63	0.076
1703509	Drill Core		2.76	0.067
1703510	Pulp		0.10	6.645
1703511	Drill Core		1.69	0.039
1703512	Drill Core		2.22	0.069
1703513	Drill Core		1.11	0.154
1703514	Drill Core		2.37	0.155
1703515	Drill Core		1.71	0.050
1703516	Drill Core		2.11	0.023
1703517	Drill Core		2.44	0.022
1703518	Drill Core		2.44	0.019
1703519	Drill Core		2.39	0.030
1703520	Drill Core		1.31	0.083
1703521	Drill Core		2.42	0.025
1703522	Drill Core		2.26	0.023
1703523	Drill Core		2.27	0.023
1703524	Drill Core		1.10	0.022
1703525	Drill Core		0.93	0.023
1703526	Drill Core		1.87	0.100
1703527	Drill Core		1.55	0.068
1703528	Drill Core		1.63	0.046
1703529	Drill Core		2.36	0.052
1703530	Drill Core		2.47	0.026

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 29, 2019

CERTIFICATE OF ANALYSIS TIM19000300.1

		Method	WGHT	FA430
		Analyte	Wgt	Au
		Unit	kg	ppm
		MDL	0.01	0.005
1703531	Drill Core		1.98	0.037
1703532	Drill Core		2.21	0.008
1703533	Drill Core		1.95	0.009
1703534	Drill Core		2.12	0.008
1703535	Pulp		0.10	0.329
1703536	Drill Core		1.96	0.005
1703537	Drill Core		2.13	0.008
1703538	Drill Core		2.54	0.005
1703539	Drill Core		2.15	0.008
1703540	Rock		0.34	<0.005
1703541	Drill Core		2.25	0.028
1703542	Drill Core		2.43	<0.005
1703543	Drill Core		2.26	<0.005
1703544	Drill Core		2.49	0.015
1703545	Drill Core		1.06	0.017
1703546	Drill Core		1.21	0.028
1703547	Drill Core		2.43	0.017
1703548	Drill Core		1.85	0.010
1703549	Drill Core		0.95	0.011
1703550	Drill Core		1.15	0.014
1703551	Drill Core		2.35	0.118
1703552	Drill Core		2.40	0.108
1703553	Drill Core		2.47	0.186
1703554	Drill Core		2.37	0.337
1703555	Drill Core		1.88	0.234
1703556	Drill Core		2.54	2.424
1703557	Drill Core		0.86	0.838
1703558	Drill Core		2.42	1.357
1703559	Drill Core		2.44	0.583
1703560	Pulp		0.10	6.725

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 29, 2019

CERTIFICATE OF ANALYSIS TIM19000300.1

Method		WGHT	FA430
Analyte		Wgt	Au
Unit		kg	ppm
MDL		0.01	0.005
1703561	Drill Core	2.40	0.759
1703562	Drill Core	2.38	0.382
1703563	Drill Core	2.13	0.483
1703564	Drill Core	1.95	0.375
1703565	Drill Core	0.94	0.679
1703566	Drill Core	2.23	3.476
1703567	Drill Core	1.27	4.749
1703568	Drill Core	2.58	0.748
1703569	Drill Core	2.07	0.102
1703570	Drill Core	2.15	0.247
1703571	Drill Core	3.32	0.211
1703572	Drill Core	2.31	0.267
1703573	Drill Core	2.57	0.206
1703574	Drill Core	0.89	0.627
1703575	Drill Core	0.70	0.536
1703576	Drill Core	2.00	0.465
1703577	Drill Core	1.21	0.402
1703578	Drill Core	2.71	0.493
1703579	Drill Core	1.70	0.508
1703580	Drill Core	2.23	1.004
1703581	Drill Core	2.53	1.032
1703582	Drill Core	2.65	0.578
1703583	Drill Core	2.17	0.342
1703584	Drill Core	1.91	1.152
1703585	Pulp	0.10	0.324
1703586	Drill Core	2.88	1.808
1703587	Drill Core	1.96	3.835
1703588	Drill Core	2.33	3.161
1703589	Drill Core	2.43	1.609
1703590	Rock	0.25	0.006

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 29, 2019

CERTIFICATE OF ANALYSIS TIM19000300.1

Method		WGHT	FA430
Analyte		Wgt	Au
Unit		kg	ppm
MDL		0.01	0.005
1703591	Drill Core	2.03	1.974
1703592	Drill Core	0.88	0.837
1703593	Drill Core	1.48	1.790
1703594	Drill Core	1.98	0.951
1703595	Drill Core	1.70	2.097
1703596	Drill Core	1.71	2.322
1703597	Drill Core	1.32	3.195
1703598	Drill Core	1.59	3.446
1703599	Drill Core	0.68	0.100
1703600	Drill Core	0.69	0.088
1703290	Rock	0.38	<0.005

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

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

Project: Mikwam (MK)
Report Date: April 29, 2019

QUALITY CONTROL REPORT TIM19000300.1

		Method	WGHT	FA430
		Analyte	Wgt	Au
		Unit	kg	ppm
		MDL	0.01	0.005
Pulp Duplicates				
1703518	Drill Core		2.44	0.019
REP 1703518	QC			0.019
1703541	Drill Core		2.25	0.028
REP 1703541	QC			0.024
1703594	Drill Core		1.98	0.951
REP 1703594	QC			0.946
Core Reject Duplicates				
1703508	Drill Core		2.63	0.076
DUP 1703508	QC			0.065
1703542	Drill Core		2.43	<0.005
DUP 1703542	QC			<0.005
1703576	Drill Core		2.00	0.465
DUP 1703576	QC			0.465
Reference Materials				
STD OXC145	Standard			0.198
STD OXC145	Standard			0.216
STD OXH139	Standard			1.335
STD OXH139	Standard			1.319
STD OXH139	Standard			1.388
STD OXN134	Standard			7.510
STD OXN134	Standard			7.620
STD OXN134	Standard			7.764
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

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

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

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

Project: Mikwam (MK)
Report Date: April 29, 2019

QUALITY CONTROL REPORT TIM19000300.1

		WGHT Wgt kg 0.01	FA430 Au ppm 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

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

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

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

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: April 05, 2019
Report Date: April 17, 2019
Page: 1 of 8

CERTIFICATE OF ANALYSIS TIM19000304.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID: Batch 2019-06
P.O. Number RUSH
Number of Samples: 200

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

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	192	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	8	Sort, label and box pulps			TIM
FA430	200	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	200	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS

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

CC: Jeremy Niemi

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Production Manager

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

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 17, 2019

CERTIFICATE OF ANALYSIS TIM19000304.1

Method		WGHT	FA430
Analyte		Wgt	Au
Unit		kg	ppm
MDL		0.01	0.005
1703601	Drill Core	2.28	0.079
1703602	Drill Core	2.59	0.057
1703603	Drill Core	2.41	0.065
1703604	Drill Core	2.61	0.023
1703605	Drill Core	2.52	0.010
1703606	Drill Core	1.72	0.005
1703607	Drill Core	1.33	0.016
1703608	Drill Core	1.72	0.015
1703609	Drill Core	2.17	0.007
1703610	Pulp	0.06	6.417
1703611	Drill Core	2.50	0.008
1703612	Drill Core	2.09	<0.005
1703613	Drill Core	1.21	<0.005
1703614	Drill Core	2.23	0.011
1703615	Drill Core	1.29	0.009
1703616	Drill Core	1.72	0.034
1703617	Drill Core	1.84	0.059
1703618	Drill Core	1.46	0.014
1703619	Drill Core	2.09	0.016
1703620	Drill Core	1.91	0.043
1703621	Drill Core	2.03	0.006
1703622	Drill Core	1.70	0.049
1703623	Drill Core	1.13	0.010
1703624	Drill Core	0.60	0.005
1703625	Drill Core	0.48	0.013
1703626	Drill Core	2.12	0.014
1703627	Drill Core	1.69	0.007
1703628	Drill Core	2.30	0.060
1703629	Drill Core	2.38	0.040
1703630	Drill Core	2.43	0.060

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 17, 2019

CERTIFICATE OF ANALYSIS TIM19000304.1

		Method	WGHT	FA430
		Analyte	Wgt	Au
		Unit	kg	ppm
		MDL	0.01	0.005
1703631	Drill Core		2.84	0.019
1703632	Drill Core		1.66	0.008
1703633	Drill Core		2.24	0.010
1703634	Drill Core		2.41	0.005
1703635	Pulp		0.06	0.329
1703636	Drill Core		2.36	0.005
1703637	Drill Core		2.29	<0.005
1703638	Drill Core		1.24	0.007
1703639	Drill Core		0.94	0.007
1703640	Rock		0.35	<0.005
1703641	Drill Core		1.07	0.017
1703642	Drill Core		2.19	0.005
1703643	Drill Core		2.51	0.008
1703644	Drill Core		1.89	0.006
1703645	Drill Core		2.58	0.006
1703646	Drill Core		2.54	0.033
1703647	Drill Core		2.44	0.027
1703648	Drill Core		2.71	0.008
1703649	Drill Core		0.53	0.027
1703650	Drill Core		0.65	0.007
1703651	Drill Core		2.26	0.007
1703652	Drill Core		2.38	<0.005
1703653	Drill Core		1.39	0.006
1703654	Drill Core		3.01	0.011
1703655	Drill Core		2.17	<0.005
1703656	Drill Core		2.38	<0.005
1703657	Drill Core		1.96	<0.005
1703658	Drill Core		2.52	<0.005
1703659	Drill Core		2.55	<0.005
1703660	Pulp		0.06	6.436

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 17, 2019

CERTIFICATE OF ANALYSIS TIM19000304.1

		Method	WGHT	FA430
		Analyte	Wgt	Au
		Unit	kg	ppm
		MDL	0.01	0.005
1703661	Drill Core		2.60	<0.005
1703662	Drill Core		2.00	<0.005
1703663	Drill Core		2.48	<0.005
1703664	Drill Core		2.20	<0.005
1703665	Drill Core		2.95	<0.005
1703666	Drill Core		2.70	<0.005
1703667	Drill Core		2.43	<0.005
1703668	Drill Core		2.40	<0.005
1703669	Drill Core		2.38	<0.005
1703670	Drill Core		2.19	<0.005
1703671	Drill Core		2.46	<0.005
1703672	Drill Core		2.14	<0.005
1703673	Drill Core		2.20	<0.005
1703674	Drill Core		0.91	0.008
1703675	Drill Core		0.82	0.006
1703676	Drill Core		1.99	0.007
1703677	Drill Core		2.08	<0.005
1703678	Drill Core		2.50	<0.005
1703679	Drill Core		2.36	<0.005
1703680	Drill Core		2.06	<0.005
1703681	Drill Core		2.34	<0.005
1703682	Drill Core		2.22	<0.005
1703683	Drill Core		2.34	<0.005
1703684	Drill Core		2.25	<0.005
1703685	Pulp		0.06	0.324
1703686	Drill Core		2.35	<0.005
1703687	Drill Core		2.28	<0.005
1703688	Drill Core		2.18	<0.005
1703689	Drill Core		2.25	<0.005
1703690	Rock		0.34	<0.005

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 17, 2019

CERTIFICATE OF ANALYSIS TIM19000304.1

Method		WGHT	FA430
Analyte		Wgt	Au
Unit		kg	ppm
MDL		0.01	0.005
1703691	Drill Core	1.27	0.007
1703692	Drill Core	1.82	<0.005
1703693	Drill Core	1.96	<0.005
1703694	Drill Core	1.96	<0.005
1703695	Drill Core	1.87	<0.005
1703696	Drill Core	2.21	<0.005
1703697	Drill Core	2.47	<0.005
1703698	Drill Core	1.72	<0.005
1703699	Drill Core	1.02	<0.005
1703700	Drill Core	0.83	<0.005
1703701	Drill Core	2.23	<0.005
1703702	Drill Core	2.26	<0.005
1703703	Drill Core	1.33	<0.005
1703704	Drill Core	1.17	<0.005
1703705	Drill Core	2.20	<0.005
1703706	Drill Core	2.17	<0.005
1703707	Drill Core	2.78	<0.005
1703708	Drill Core	2.22	<0.005
1703709	Drill Core	2.54	<0.005
1703710	Pulp	0.06	6.428
1703711	Drill Core	2.59	<0.005
1703712	Drill Core	2.17	<0.005
1703713	Drill Core	2.42	<0.005
1703714	Drill Core	2.40	<0.005
1703715	Drill Core	1.27	<0.005
1703716	Drill Core	0.99	<0.005
1703717	Drill Core	2.40	<0.005
1703718	Drill Core	2.40	<0.005
1703719	Drill Core	2.50	<0.005
1703720	Drill Core	2.48	<0.005

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 17, 2019

CERTIFICATE OF ANALYSIS TIM19000304.1

Method		WGHT	FA430
Analyte		Wgt	Au
Unit		kg	ppm
MDL		0.01	0.005
1703721	Drill Core	1.92	<0.005
1703722	Drill Core	0.83	<0.005
1703723	Drill Core	1.86	<0.005
1703724	Drill Core	1.02	<0.005
1703725	Drill Core	1.15	<0.005
1703726	Drill Core	2.19	<0.005
1703727	Drill Core	0.83	<0.005
1703728	Drill Core	1.11	<0.005
1703729	Drill Core	2.49	<0.005
1703730	Drill Core	2.36	<0.005
1703731	Drill Core	2.06	<0.005
1703732	Drill Core	2.41	<0.005
1703733	Drill Core	2.28	<0.005
1703734	Drill Core	2.11	<0.005
1703735	Pulp	0.06	0.329
1703736	Drill Core	2.24	<0.005
1703737	Drill Core	2.67	<0.005
1703738	Drill Core	2.17	<0.005
1703739	Drill Core	0.99	<0.005
1703740	Rock	0.34	<0.005
1703741	Drill Core	1.52	<0.005
1703742	Drill Core	2.19	<0.005
1703743	Drill Core	2.24	<0.005
1703744	Drill Core	2.37	<0.005
1703745	Drill Core	2.50	<0.005
1703746	Drill Core	2.59	<0.005
1703747	Drill Core	2.29	<0.005
1703748	Drill Core	1.64	<0.005
1703749	Drill Core	0.64	<0.005
1703750	Drill Core	0.88	0.006

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 17, 2019

CERTIFICATE OF ANALYSIS TIM19000304.1

		Method	WGHT	FA430
		Analyte	Wgt	Au
		Unit	kg	ppm
		MDL	0.01	0.005
1703751	Drill Core		2.13	<0.005
1703752	Drill Core		2.07	<0.005
1703753	Drill Core		2.24	<0.005
1703754	Drill Core		1.91	<0.005
1703755	Drill Core		2.39	<0.005
1703756	Drill Core		2.36	0.005
1703757	Drill Core		2.24	0.005
1703758	Drill Core		1.97	<0.005
1703759	Drill Core		1.66	0.007
1703760	Pulp		0.06	6.497
1703761	Drill Core		0.66	0.036
1703762	Drill Core		0.76	<0.005
1703763	Drill Core		0.92	0.018
1703764	Drill Core		1.91	<0.005
1703765	Drill Core		1.83	<0.005
1703766	Drill Core		3.14	<0.005
1703767	Drill Core		1.90	<0.005
1703768	Drill Core		2.51	0.041
1703769	Drill Core		0.88	0.039
1703770	Drill Core		2.07	<0.005
1703771	Drill Core		2.33	0.046
1703772	Drill Core		2.48	0.022
1703773	Drill Core		2.02	0.024
1703774	Drill Core		1.00	0.056
1703775	Drill Core		1.24	0.054
1703776	Drill Core		1.63	0.033
1703777	Drill Core		1.17	0.084
1703778	Drill Core		1.89	0.038
1703779	Drill Core		2.20	0.013
1703780	Drill Core		2.46	0.009

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 17, 2019

CERTIFICATE OF ANALYSIS TIM19000304.1

		Method	WGHT	FA430
		Analyte	Wgt	Au
		Unit	kg	ppm
		MDL	0.01	0.005
1703781	Drill Core		3.20	0.008
1703782	Drill Core		1.61	0.008
1703783	Drill Core		1.93	0.005
1703784	Drill Core		2.76	0.008
1703785	Pulp		0.06	0.322
1703786	Drill Core		1.61	0.023
1703787	Drill Core		2.25	2.321
1703788	Drill Core		1.42	2.233
1703789	Drill Core		2.25	0.110
1703790	Rock		0.41	<0.005
1703791	Drill Core		1.20	0.031
1703792	Drill Core		1.07	0.100
1703793	Drill Core		1.35	0.576
1703794	Drill Core		1.79	0.504
1703795	Drill Core		1.02	0.061
1703796	Drill Core		1.53	0.104
1703797	Drill Core		2.31	0.008
1703798	Drill Core		1.70	0.007
1703799	Drill Core		0.81	0.005
1703800	Drill Core		1.12	0.007

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

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

Project: Mikwam (MK)
Report Date: April 17, 2019

QUALITY CONTROL REPORT TIM19000304.1

		Method	WGHT	FA430
		Analyte	Wgt	Au
		Unit	kg	ppm
		MDL	0.01	0.005
Pulp Duplicates				
1703673	Drill Core		2.20	<0.005
REP 1703673	QC			<0.005
1703702	Drill Core		2.26	<0.005
REP 1703702	QC			<0.005
1703748	Drill Core		1.64	<0.005
REP 1703748	QC			<0.005
1703761	Drill Core		0.66	0.036
REP 1703761	QC			0.038
1703797	Drill Core		2.31	0.008
REP 1703797	QC			0.006
Core Reject Duplicates				
1703623	Drill Core		1.13	0.010
DUP 1703623	QC			0.015
1703657	Drill Core		1.96	<0.005
DUP 1703657	QC			<0.005
1703691	Drill Core		1.27	0.007
DUP 1703691	QC			0.008
1703725	Drill Core		1.15	<0.005
DUP 1703725	QC			<0.005
1703759	Drill Core		1.66	0.007
DUP 1703759	QC			0.006
1703793	Drill Core		1.35	0.576
DUP 1703793	QC			0.736
Reference Materials				
STD OXC145	Standard			0.201
STD OXC145	Standard			0.200
STD OXC145	Standard			0.202
STD OXH139	Standard			1.274

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

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

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

Project: Mikwam (MK)
Report Date: April 17, 2019

QUALITY CONTROL REPORT TIM19000304.1

		WGHT Wgt kg 0.01	FA430 Au ppm 0.005
STD OXH139	Standard		1.290
STD OXH139	Standard		1.253
STD OXH139	Standard		1.341
STD OXN134	Standard		7.191
STD OXN134	Standard		7.761
STD OXN134	Standard		7.346
STD OXN134	Standard		8.042
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
Prep Wash			
ROCK-TIM	Prep Blank		<0.005
ROCK-TIM	Prep Blank		<0.005

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

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

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

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: April 08, 2019
Report Date: April 17, 2019
Page: 1 of 6

CERTIFICATE OF ANALYSIS TIM19000373.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID: Batch 2019-07
P.O. Number RUSH
Number of Samples: 135

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

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	129	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	6	Sort, label and box pulps			TIM
FA430	135	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	135	Environmental disposal charge-Fire assay lead waste			TIM
FA530	1	Lead collection fire assay 30G fusion - Grav finish	30		TIM

ADDITIONAL COMMENTS

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

CC: Jeremy Niemi

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Production Manager

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

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 17, 2019

CERTIFICATE OF ANALYSIS TIM19000373.1

		Method	WGHT	FA430	FA530
		Analyte	Wgt	Au	Au
		Unit	kg	ppm	gm/t
		MDL	0.01	0.005	0.9
1703801	Drill Core		1.80	0.008	
1703802	Drill Core		2.02	0.015	
1703803	Drill Core		1.97	0.025	
1703804	Drill Core		1.21	0.044	
1703805	Drill Core		1.84	0.006	
1703806	Drill Core		2.25	0.008	
1703807	Drill Core		1.70	0.044	
1703808	Drill Core		0.67	0.013	
1703809	Drill Core		0.59	0.011	
1703810	Pulp		0.07	6.406	
1703811	Drill Core		1.28	0.006	
1703812	Drill Core		2.17	<0.005	
1703813	Drill Core		0.62	0.006	
1703814	Drill Core		1.86	<0.005	
1703815	Drill Core		1.88	0.012	
1703816	Drill Core		2.51	0.007	
1703817	Drill Core		2.33	0.008	
1703818	Drill Core		2.21	0.008	
1703819	Drill Core		2.27	0.009	
1703820	Drill Core		2.14	0.008	
1703821	Drill Core		2.50	0.007	
1703822	Drill Core		2.38	0.034	
1703823	Drill Core		2.44	0.075	
1703824	Drill Core		0.88	0.976	
1703825	Drill Core		0.99	0.304	
1703826	Drill Core		2.40	0.017	
1703827	Drill Core		2.19	0.016	
1703828	Drill Core		2.16	0.118	
1703829	Drill Core		2.27	0.012	
1703830	Drill Core		2.11	0.007	

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 17, 2019

CERTIFICATE OF ANALYSIS TIM19000373.1

Method		WGHT	FA430	FA530
Analyte		Wgt	Au	Au
Unit		kg	ppm	gm/t
MDL		0.01	0.005	0.9
1703831	Drill Core	1.62	0.017	
1703832	Drill Core	1.98	<0.005	
1703833	Drill Core	2.34	0.006	
1703834	Drill Core	1.28	0.007	
1703835	Pulp	0.07	0.327	
1703836	Drill Core	0.62	<0.005	
1703837	Drill Core	1.17	0.008	
1703838	Drill Core	0.56	0.005	
1703839	Drill Core	2.20	0.007	
1703840	Rock	0.23	<0.005	
1703841	Drill Core	2.62	<0.005	
1703842	Drill Core	0.65	0.007	
1703843	Drill Core	0.98	0.007	
1703844	Drill Core	2.13	0.013	
1703845	Drill Core	1.96	0.011	
1703846	Drill Core	2.13	0.018	
1703847	Drill Core	3.91	0.013	
1703848	Drill Core	1.17	0.011	
1703849	Drill Core	0.85	0.011	
1703850	Drill Core	0.97	0.011	
1703851	Drill Core	1.42	0.008	
1703852	Drill Core	2.88	<0.005	
1703853	Drill Core	1.23	0.007	
1703854	Drill Core	0.90	0.006	
1703855	Drill Core	1.28	0.008	
1703856	Drill Core	2.19	0.008	
1703857	Drill Core	2.18	0.008	
1703858	Drill Core	2.15	0.031	
1703859	Drill Core	2.46	0.011	
1703860	Pulp	0.07	6.568	

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 17, 2019

CERTIFICATE OF ANALYSIS TIM19000373.1

Method		WGHT	FA430	FA530
Analyte		Wgt	Au	Au
Unit		kg	ppm	gm/t
MDL		0.01	0.005	0.9
1703861	Drill Core	2.16	0.012	
1703862	Drill Core	2.67	0.007	
1703863	Drill Core	2.09	<0.005	
1703864	Drill Core	2.42	<0.005	
1703865	Drill Core	2.51	<0.005	
1703866	Drill Core	2.41	<0.005	
1703867	Drill Core	2.39	<0.005	
1703868	Drill Core	2.71	<0.005	
1703869	Drill Core	2.42	<0.005	
1703870	Drill Core	2.76	<0.005	
1703871	Drill Core	0.60	<0.005	
1703872	Drill Core	2.30	<0.005	
1703873	Drill Core	1.72	<0.005	
1703874	Drill Core	1.07	<0.005	
1703875	Drill Core	1.03	0.009	
1703876	Drill Core	2.32	0.015	
1703877	Drill Core	0.60	0.013	
1703878	Drill Core	1.85	0.008	
1703879	Drill Core	2.10	0.018	
1703880	Drill Core	0.89	0.010	
1703881	Drill Core	1.18	0.006	
1703882	Drill Core	1.60	0.011	
1703883	Drill Core	0.75	0.007	
1703884	Drill Core	2.19	0.010	
1703885	Pulp	0.07	0.350	
1703886	Drill Core	2.30	0.009	
1703887	Drill Core	2.29	0.010	
1703888	Drill Core	1.33	0.009	
1703889	Drill Core	2.09	0.006	
1703890	Rock	0.25	<0.005	

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 17, 2019

CERTIFICATE OF ANALYSIS TIM19000373.1

Method		WGHT	FA430	FA530
Analyte		Wgt	Au	Au
Unit		kg	ppm	gm/t
MDL		0.01	0.005	0.9
1703891	Drill Core	2.08	0.017	
1703892	Drill Core	1.17	0.006	
1703893	Drill Core	1.21	0.010	
1703894	Drill Core	2.19	0.008	
1703895	Drill Core	1.60	0.008	
1703896	Drill Core	1.78	0.009	
1703897	Drill Core	1.39	0.009	
1703898	Drill Core	1.44	0.007	
1703899	Drill Core	0.75	0.007	
1703900	Drill Core	0.81	0.020	
1703901	Drill Core	2.02	0.014	
1703902	Drill Core	2.28	0.019	
1703903	Drill Core	2.13	0.015	
1703904	Drill Core	2.29	0.019	
1703905	Drill Core	1.20	0.029	
1703906	Drill Core	1.33	0.635	
1703907	Drill Core	0.73	0.790	
1703908	Drill Core	1.90	2.093	
1703909	Drill Core	2.24	1.310	
1703910	Pulp	0.07	6.651	
1703911	Drill Core	1.24	0.273	
1703912	Drill Core	2.23	0.951	
1703913	Drill Core	0.97	>10	15.9
1703914	Drill Core	1.34	1.123	
1703915	Drill Core	0.85	7.266	
1703916	Drill Core	2.38	0.662	
1703917	Drill Core	2.53	0.145	
1703918	Drill Core	1.12	0.491	
1703919	Drill Core	2.54	0.421	
1703920	Drill Core	2.33	0.171	

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 17, 2019

CERTIFICATE OF ANALYSIS TIM19000373.1

Method		WGHT	FA430	FA530
Analyte		Wgt	Au	Au
Unit		kg	ppm	gm/t
MDL		0.01	0.005	0.9
1703921	Drill Core	2.70	0.177	
1703922	Drill Core	2.00	0.160	
1703923	Drill Core	2.19	0.069	
1703924	Drill Core	1.09	0.076	
1703925	Drill Core	1.12	0.065	
1703926	Drill Core	0.65	0.012	
1703927	Drill Core	0.85	0.023	
1703928	Drill Core	1.48	<0.005	
1703929	Drill Core	2.57	<0.005	
1703930	Drill Core	2.77	<0.005	
1703931	Drill Core	3.60	<0.005	
1703932	Drill Core	1.15	0.007	
1703933	Drill Core	2.74	<0.005	
1703934	Drill Core	2.39	<0.005	
1703935	Pulp	0.07	0.343	

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

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

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

Project: Mikwam (MK)
Report Date: April 17, 2019

QUALITY CONTROL REPORT TIM19000373.1

	Method	WGHT	FA430	FA530
	Analyte	Wgt	Au	Au
	Unit	kg	ppm	gm/t
	MDL	0.01	0.005	0.9
Pulp Duplicates				
1703843	Drill Core	0.98	0.007	
REP 1703843	QC		0.008	
1703893	Drill Core	1.21	0.010	
REP 1703893	QC		0.009	
1703907	Drill Core	0.73	0.790	
REP 1703907	QC		0.666	
Core Reject Duplicates				
1703844	Drill Core	2.13	0.013	
DUP 1703844	QC		0.010	
1703878	Drill Core	1.85	0.008	
DUP 1703878	QC		0.007	
1703912	Drill Core	2.23	0.951	
DUP 1703912	QC		0.965	
Reference Materials				
STD OXC145	Standard		0.203	
STD OXC145	Standard		0.218	
STD OXC145	Standard		0.218	
STD OXH139	Standard		1.299	
STD OXH139	Standard		1.332	
STD OXH139	Standard		1.325	
STD OXN134	Standard		7.423	
STD OXN134	Standard		7.637	
STD OXN134	Standard		7.580	
STD OXP116	Standard			15.4
STD OXQ90	Standard			24.4
STD OXQ90	Standard			25.9
STD OXC145 Expected			0.212	
STD OXN134 Expected			7.667	

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

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

Project: Mikwam (MK)
Report Date: April 17, 2019

QUALITY CONTROL REPORT TIM19000373.1

		WGHT Wgt kg 0.01	FA430 Au ppm 0.005	FA530 Au gm/t 0.9
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	
BLK	Blank		<0.005	
BLK	Blank		<0.005	
BLK	Blank			<0.9
Prep Wash				
ROCK-TIM	Prep Blank		<0.005	
ROCK-TIM	Prep Blank		<0.005	

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

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

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

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: April 08, 2019
Report Date: April 17, 2019
Page: 1 of 6

CERTIFICATE OF ANALYSIS TIM19000374.1

CLIENT JOB INFORMATION

Project:	Mikwam (MK)
Shipment ID:	Batch 2019-07
P.O. Number	RUSH
Number of Samples:	138

SAMPLE DISPOSAL

DISP-PLP	Dispose of Pulp After 90 days
DISP-RJT	Dispose of Reject After 60 days

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	133	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	4	Sort, label and box pulps			TIM
FA430	138	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	138	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS

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

CC: Jeremy Niemi

BRITISH COLUMBIA CERTIFIED ASSAYER
MARCUS LAU
Production Manager

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

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 17, 2019

CERTIFICATE OF ANALYSIS TIM19000374.1

Method		WGHT	FA430
Analyte		Wgt	Au
Unit		kg	ppm
MDL		0.01	0.005
1703936	Drill Core	1.59	0.005
1703937	Drill Core	2.33	<0.005
1703938	Drill Core	2.01	0.008
1703939	Drill Core	1.68	0.032
1703940	Rock	0.40	<0.005
1703941	Drill Core	2.20	<0.005
1703942	Drill Core	1.10	0.044
1703943	Drill Core	2.49	0.007
1703944	Drill Core	2.69	<0.005
1703945	Drill Core	2.35	<0.005
1703946	Drill Core	1.83	<0.005
1703947	Drill Core	2.26	<0.005
1703948	Drill Core	3.03	<0.005
1703949	Drill Core	0.90	<0.005
1703950	Drill Core	0.79	<0.005
1703951	Drill Core	3.02	<0.005
1703952	Drill Core	2.47	<0.005
1703953	Drill Core	2.36	<0.005
1703954	Drill Core	1.79	<0.005
1703955	Drill Core	1.40	0.007
1703956	Drill Core	1.27	<0.005
1703957	Drill Core	2.78	0.006
1703958	Drill Core	1.42	<0.005
1703959	Drill Core	2.29	<0.005
1703960	Pulp	0.07	6.597
1703961	Drill Core	2.03	2.115
1703962	Drill Core	2.26	0.074
1703963	Drill Core	1.34	0.041
1703964	Drill Core	2.13	0.152
1703965	Drill Core	1.74	<0.005

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 17, 2019

CERTIFICATE OF ANALYSIS TIM19000374.1

Method		WGHT	FA430
Analyte		Wgt	Au
Unit		kg	ppm
MDL		0.01	0.005
1703966	Drill Core	2.33	0.020
1703967	Drill Core	2.10	<0.005
1703968	Drill Core	4.12	0.016
1703969	Drill Core	2.41	<0.005
1703970	Drill Core	1.57	0.013
1703971	Drill Core	2.38	0.014
1703972	Drill Core	3.00	0.006
1703973	Drill Core	3.49	<0.005
1703974	Drill Core	1.25	0.007
1703975	Drill Core	3.52	0.011
1703976	Drill Core	4.24	0.102
1703977	Drill Core	1.31	0.024
1703978	Drill Core	1.17	0.029
1703979	Drill Core	0.93	0.038
1703980	Drill Core	2.31	0.022
1703981	Drill Core	1.08	0.020
1703982	Drill Core	2.42	0.014
1703983	Drill Core	1.76	0.011
1703984	Drill Core	2.08	0.011
1703985	Pulp	0.07	0.339
1703986	Drill Core	4.06	0.018
1703987	Drill Core	1.93	0.008
1703988	Drill Core	2.72	0.006
1703989	Drill Core	3.11	0.015
1703990	Rock	0.31	<0.005
1703991	Drill Core	2.56	0.037
1703992	Drill Core	2.32	0.046
1703993	Drill Core	2.03	0.087
1703994	Drill Core	2.44	0.006
1703995	Drill Core	1.83	<0.005

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 17, 2019

CERTIFICATE OF ANALYSIS TIM19000374.1

		Method	WGHT	FA430
		Analyte	Wgt	Au
		Unit	kg	ppm
		MDL	0.01	0.005
1703996	Drill Core		3.49	0.019
1703997	Drill Core		2.91	0.006
1703998	Drill Core		3.52	0.114
1703999	Drill Core		4.97	0.718
1704000	Drill Core		1.00	0.021
1648101	Drill Core		0.97	0.020
1648102	Drill Core		2.03	0.020
1648103	Drill Core		2.60	0.025
1648104	Drill Core		2.32	0.216
1648105	Drill Core		2.51	0.087
1648106	Drill Core		2.53	0.084
1648107	Drill Core		1.30	0.015
1648108	Drill Core		1.84	<0.005
1648109	Drill Core		2.05	0.005
1648110	Pulp		0.07	6.665
1648111	Drill Core		2.12	0.011
1648112	Drill Core		1.92	0.012
1648113	Drill Core		1.01	0.013
1648114	Drill Core		2.69	0.103
1648115	Drill Core		1.69	0.143
1648116	Drill Core		2.83	0.039
1648117	Drill Core		2.29	0.034
1648118	Drill Core		2.09	0.008
1648119	Drill Core		1.65	0.054
1648120	Drill Core		2.05	0.061
1648121	Drill Core		1.94	0.046
1648122	Drill Core		2.21	0.045
1648123	Drill Core		2.08	0.016
1648124	Drill Core		0.89	0.013
1648125	Drill Core		1.02	0.011

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 17, 2019

CERTIFICATE OF ANALYSIS TIM19000374.1

		Method	WGHT	FA430
		Analyte	Wgt	Au
		Unit	kg	ppm
		MDL	0.01	0.005
1648126	Drill Core		1.05	0.019
1648127	Drill Core		2.49	0.255
1648128	Drill Core		2.28	0.098
1648129	Drill Core		1.74	0.026
1648130	Drill Core		2.18	0.139
1648131	Drill Core		2.19	0.101
1648132	Drill Core		2.00	0.013
1648133	Drill Core		2.35	0.204
1648134	Drill Core		2.39	0.085
1648135	Pulp		0.07	0.339
1648136	Drill Core		2.15	0.235
1648137	Drill Core		1.64	0.167
1648138	Drill Core		2.22	0.025
1648139	Drill Core		2.23	0.035
1648140	Rock		0.44	<0.005
1648141	Drill Core		2.49	0.014
1648142	Drill Core		2.30	0.032
1648143	Drill Core		2.32	0.036
1648144	Drill Core		2.15	0.052
1648145	Drill Core		2.27	0.074
1648146	Drill Core		2.51	0.065
1648147	Drill Core		2.04	0.057
1648148	Drill Core		1.97	0.069
1648149	Drill Core		1.26	0.092
1648150	Drill Core		1.12	0.073
1648151	Drill Core		2.17	0.088
1648152	Drill Core		2.38	0.058
1648153	Drill Core		2.47	0.066
1648154	Drill Core		2.29	0.062
1648155	Drill Core		2.37	0.037

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: April 17, 2019

CERTIFICATE OF ANALYSIS TIM19000374.1

Method		WGHT	FA430
Analyte		Wgt	Au
Unit		kg	ppm
MDL		0.01	0.005
1648156	Drill Core	2.27	0.035
1648163	Drill Core	2.30	0.006
1648164	Drill Core	2.58	0.005
1648165	Drill Core	1.79	0.012
1648166	Drill Core	2.28	1.077
1648167	Drill Core	1.56	0.227
1648168	Drill Core	1.93	0.055
1648169	Drill Core	1.36	0.237
1648170	Drill Core	1.52	0.058
1648171	Drill Core	1.20	0.027
1648172	Drill Core	2.67	0.017
1648173	Drill Core	2.17	0.005
1648174	Drill Core	2.44	0.006
1648175	Pulp	0.07	0.346
1648176	Drill Core	2.06	0.007
1648177	Drill Core	1.61	<0.005
1648178	Drill Core	1.87	<0.005
1648179	Drill Core	1.56	<0.005

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

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

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

Project: Mikwam (MK)
Report Date: April 17, 2019

QUALITY CONTROL REPORT TIM19000374.

		Method	WGHT	FA430
		Analyte	Wgt	Au
		Unit	kg	ppm
		MDL	0.01	0.005
Pulp Duplicates				
1703936	Drill Core		1.59	0.005
REP 1703936	QC			0.006
1703974	Drill Core		1.25	0.007
REP 1703974	QC			<0.005
1703987	Drill Core		1.93	0.008
REP 1703987	QC			0.007
1648156	Drill Core		2.27	0.035
REP 1648156	QC			0.040
1648164	Drill Core		2.58	0.005
REP 1648164	QC			<0.005
Core Reject Duplicates				
1703947	Drill Core		2.26	<0.005
DUP 1703947	QC			<0.005
1703981	Drill Core		1.08	0.020
DUP 1703981	QC			0.022
1648115	Drill Core		1.69	0.143
DUP 1648115	QC			0.140
1648149	Drill Core		1.26	0.092
DUP 1648149	QC			0.087
Reference Materials				
STD OXC145	Standard			0.203
STD OXC145	Standard			0.218
STD OXC145	Standard			0.219
STD OXH139	Standard			1.299
STD OXH139	Standard			1.325
STD OXH139	Standard			1.344
STD OXN134	Standard			7.423
STD OXN134	Standard			7.580

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

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

Project: Mikwam (MK)
Report Date: April 17, 2019

QUALITY CONTROL REPORT TIM19000374.

		WGHT Wgt kg 0.01	FA430 Au ppm 0.005
STD OXN134	Standard		7.735
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

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

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

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

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: May 06, 2019
Report Date: May 10, 2019
Page: 1 of 3

CERTIFICATE OF ANALYSIS TIM19000622.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID:
P.O. Number Batch 2019-8 RUSH
Number of Samples: 41

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

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
SLBHP	41	Sorting, labeling and boxing samples received as pulps			TIM
SPTRF	41	Split samples by riffle splitter			TIM
SHP01	41	Per sample shipping charges for branch shipments			TIM
FA130	41	Fire assay fusion Au Pt Pd by ICP-MS	30	Completed	VAN
EN002	41	Environmental disposal charge-Fire assay lead waste			VAN

ADDITIONAL COMMENTS

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

CC: Jeremy Niemi

SCOTT INGLIS
Fire Assay Manager

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

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: May 10, 2019

CERTIFICATE OF ANALYSIS TIM19000622.1

	Method	FA130	FA130	FA130
	Analyte	Au	Pt	Pd
	Unit	ppb	ppb	ppb
	MDL	1	0.1	0.5
1703217	Pulp	602	1.8	2.6
1703218	Pulp	793	2.1	2.4
1703219	Pulp	>1000	1.4	2.1
1703220	Pulp	844	1.6	2.2
1703221	Pulp	75	0.6	0.7
1703222	Pulp	41	0.5	0.6
1703223	Pulp	>1000	0.6	0.7
1703224	Pulp	605	0.6	0.7
1703226	Pulp	993	0.5	0.6
1703227	Pulp	>1000	1.3	2.2
1703228	Pulp	>1000	1.0	0.8
1703229	Pulp	>1000	1.4	2.0
1703230	Pulp	>1000	1.2	2.1
1703231	Pulp	>1000	0.8	0.9
1703232	Pulp	>1000	0.7	1.1
1703233	Pulp	>1000	0.9	1.1
1703234	Pulp	239	0.5	0.8
1703236	Pulp	554	1.2	1.4
1703237	Pulp	>1000	1.0	1.4
1703238	Pulp	322	0.9	1.2
1703239	Pulp	>1000	1.1	1.9
1703241	Pulp	>1000	0.9	1.1
1703242	Pulp	684	1.2	1.5
1703243	Pulp	>1000	0.5	0.7
1703244	Pulp	>1000	1.3	2.3
1703245	Pulp	>1000	1.0	2.0
1703246	Pulp	473	1.0	1.2
1703247	Pulp	>1000	0.9	1.3
1703248	Pulp	>1000	1.0	1.9
1703249	Pulp	>1000	0.7	0.9

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: May 10, 2019

CERTIFICATE OF ANALYSIS TIM19000622.1

		Method	FA130	FA130	FA130
		Analyte	Au	Pt	Pd
		Unit	ppb	ppb	ppb
		MDL	1	0.1	0.5
1703251	Pulp		>1000	0.2	<0.5
1703252	Pulp		888	0.8	0.9
1703253	Pulp		145	0.1	<0.5
1703254	Pulp		>1000	0.2	<0.5
1703758	Pulp		16	0.3	0.5
1703759	Pulp		39	0.3	0.5
1703761	Pulp		39	1.2	2.0
1703762	Pulp		6	1.7	2.3
1703763	Pulp		20	2.3	3.4
1703764	Pulp		5	2.8	3.6
1703765	Pulp		3	2.7	3.5

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

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

Project: Mikwam (MK)

Report Date: May 10, 2019

QUALITY CONTROL REPORT TIM19000622.1

		Method	FA130	FA130	FA130
		Analyte	Au	Pt	Pd
		Unit	ppb	ppb	ppb
		MDL	1	0.1	0.5
Pulp Duplicates					
1703248	Pulp		>1000	1.0	1.9
REP 1703248	QC		>1000	2.2	2.1
1703763	Pulp		20	2.3	3.4
REP 1703763	QC		21	2.3	3.3
Reference Materials					
STD OREAS47	Standard		46	30.9	46.2
STD OREAS47	Standard		46	30.7	45.7
STD PD05	Standard		492	416.6	592.4
STD PD05	Standard		525	453.7	611.8
STD PD05 Expected			519	430	596
STD OREAS47 Expected			44.7	30	44.2
BLK	Blank		3	0.4	0.8
BLK	Blank		3	0.4	0.8

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

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

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

Submitted By: Scott Zelligan
Receiving Lab: Canada-Timmins
Received: May 13, 2019
Report Date: May 21, 2019
Page: 1 of 2

CERTIFICATE OF ANALYSIS TIM19000661.1

CLIENT JOB INFORMATION

Project: Mikwam (MK)
Shipment ID:
P.O. Number
Number of Samples: 6

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 60 days

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	6	Crush, split and pulverize 500g rock to 200 mesh			TIM
SLBHP	0	Sort, label and box pulps			TIM
FA430	6	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	TIM
EN002	6	Environmental disposal charge-Fire assay lead waste			TIM

ADDITIONAL COMMENTS

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

CC: Jeremy Niemi

SCOTT INGLIS
Fire Assay Manager

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

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

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

Project: Mikwam (MK)
Report Date: May 21, 2019

CERTIFICATE OF ANALYSIS TIM19000661.1

	Method	WGHT	FA430
	Analyte	Wgt	Au
	Unit	kg	ppm
	MDL	0.01	0.005
1648180	Drill Core	2.11	0.135
1648181	Drill Core	2.10	0.014
1648182	Drill Core	2.43	0.008
1648183	Drill Core	2.55	0.006
1648184	Drill Core	2.53	0.012
1648185	Drill Core	2.61	0.042

BUREAU VERITAS MINERAL LABORATORIES Canada

www.bureauveritas.com/um

Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

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

Project: Mikwam (MK)

Report Date: May 21, 2019

QUALITY CONTROL REPORT TIM19000661.1

		Method	WGHT	FA430
		Analyte	Wgt	Au
		Unit	kg	ppm
		MDL	0.01	0.005
Reference Materials				
STD OXC145	Standard			0.210
STD OXH139	Standard			1.317
STD OXN134	Standard			7.735
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