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Assessment report for the Douay property, winter 2020 diamond drilling program

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Énergie et Ressources naturelles
Québec

Assessment Report for the Douay Property
Winter 2020 Diamond Drilling Program

Douay Township, Quebec

Map sheets: NTS 32E09, 32E10
Latitude 49.51°N, Longitude 78.32°W
UTM NAD83 Zone 17: 5487450 N, 694100 E

For
Maple Gold Mines Ltd.
1111 West Hastings Street
Vancouver, British Columbia
V6E 2J3

By

Maria Sokolov, M.Sc., P.Geo.
Senior Exploration Geologist
Maple Gold Mines Ltd.

and

Friedrich P. Speidel, M.Sc., P.Geo.
Vice President, Exploration
Maple Gold Mines Ltd.

Report Date: January 12, 2022

Table of Contents

List of Figures

List of Tables

EXECUTIVE SUMMARY

At the time the work reported was done, Maple Gold Mines Limited (Maple Gold) owneds the Douay property. Maple Gold is a Canadian mineral exploration company, with its offices in Vancouver, British Columbia (BC).

The Douay property (**Douay**) is located 55 kilometers (**km**) southwest of Matagami, Quebec (**QC**) and 120 km north of Amos, QC. The property is accessible all year via Provincial Highway 109 (**Hwy 109**).

Douay hosts gold mineralization in nine zones and several additional prospects. The known zones are Douay West, Northwest, Nika, Central, Porphyry, Main, 10, 20, and 531.

The Douay property is located in the prolific Abitibi Greenstone Belt, which has produced nearly 200 million ounces (**Moz**) since the early 1900s. Since the 1970s, several companies have explored the Douay property. Historical work programs included mapping and prospecting, ground and airborne geophysics, trenching, and reverse circulation (**RC**) and diamond core drilling.

During the 2020 winter program, Maple Gold produced 4,541.7 meters (**m**) of core in 17 drillholes (**DDH**). The drilling started on January 16th and continued until March 26th when it was halted due to the COVID-

19 pandemic. The primary objectives of the winter program were to continue testing the extensions of high-grade mineralization near surface within the resource area constrained by recently redesigned conceptual open-pit shells (RPA NI 43-101 Report, 2019).

Drilling completed on Nika, Porphyry, and 531 zones continued to improve the level of confidence for continuity of mineralization within the resource area. Follow-up step-out drilling on the new discovery of 2018, the Nika Zone, resulted in several narrow and broad, lower grade gold intersects.

Following the highly successful drilling at the 531 Zone (hole DO-19-262), an extension and a new hole were drilled in that area resulting in new gold intercepts at depth.

A single hole drilled at the Northwest Zone to test the western continuity of a near-surface historical intercept near the northwest edge of the current resource conceptual pit intersected significant mineralization surpassing the historical results.

The positive results from work completed during winter 2020 continue to demonstrate the potential of the Douay property to host significant new mineralization, not only within the currently defined conceptual pits (Micon 2018, RPA 2019), but also outside of them.

Recommendations for future work include follow-up drilling, surveying of drillhole collars with high accuracy instruments, check assaying, field mapping, and further 3D modeling and data mining.

1 INTRODUCTION

1.1 INTRODUCTION

This report presents and discusses the results from the 2020 Winter diamond drilling program.

A total of 4,541.7 meters (**m**) in 17 holes was drilled during winter 2020. The drill program started on January 16th and continued until March 26th when it was halted following the emergency orders from the Quebec Government for non-essential businesses to suspend their operations due to the COVID-19 pandemic. All holes completed during this limited period were drilled within the resource area constrained by recently redesigned conceptual open-pit shells (RPA NI 43-101 Report, 2019). Of the seventeen holes, fourteen (14) were completed as planned, including one extended hole. Two holes had to be abandoned due to complications with overburden, and one hole was re-drilled due to excessive deviations from the target.

The drill program was targeting six areas – Nika, Northwest (NW), Porphyry West and East, 10, and 531 zones. Four drillholes were completed on Nika, totalling 931.1 m. Of these four, one hole was abandoned before reaching the target depth due to mechanical problems and another hole had to be aborted following the pandemic-related mandatory shutdown. A single hole planned on Northwest zone was aborted due to significant deviations of dip and azimuth, then re-started and successfully completed. At the Porphyry Zone, three holes were drilled within its western portion, for a total of 921 m, and two on its eastern side, for a total of 738 m. Two holes were drilled to the south of Porphyry East, at the zone 10, totalling 429 m. Four holes were drilled at the 531 zone for a total of 1.038.8 m. Out of these four, one hole and one extension were successful, while two other planned holes were abandoned following several unsuccessful attempts to go through thick overburden.

Table 1. Summary of drilling completed in winter 2020 by target areas

Zone	Number of DDH	Total m
Porphyry (West)	3	921.0
Zone 10	2	429.0
Porphyry (East)	2	738.0
531	4*	1,038.8*
Nika	4	931.1
NW	2	483.8
All	**17**	**4,541.7**
*including two abandoned holes		

All measurements are in the metric system. The local geographic projection is Universal Transverse Mercator (**UTM**) North American Datum 1983 (**NAD83**), Zone 17.

1.2 PROPERTY DESCRIPTION, LOCATION, AND ACCESS

The Douay property, located within the Douay Township, QC is centered at a latitude and longitude of 49.51 degrees (**°**) North (**N**) and 78.32° West (**W**) (UTM NAD83 Zone 17: 5487450 N, 464100 E), within map sheets NTS 32E09 and 32E10. It is located approximately 55 km southeast of the town of Matagami, and 120 km north of the town of Amos. Amos is 70 km north of Val d'Or (Figure 1).

The property is accessible from Amos via provincial Hwy 109, an all-weather paved two-lane highway that crosses the property. A network of gravel forestry roads and drill trails provide good internal access within the Douay property.

Figure 1. Location map (Source: MGM website)

1.3 PHYSIOGRAPHY AND VEGETATION

The area has generally flat topography with occasional low relief drumlins and eskers. Black spruce forests, swamps, and eskers cover the property. The vertical relief in the area is generally very low with a mean altitude of 290 m above sea level. The Cartwright Hills extend for about 15 km along the southern boundary of the Douay property creating a more pronounced topography.
Very few outcrops occur on the eastern and western thirds of the property, but are locally abundant in the central third. The overburden consists of a peat layer resting on layers of argillaceous and sandy material, which then rest on beds of fluvioglacial till and lesser clay.

1.4 CLIMATE

The area receives an average of 928 millimeters (**mm**) of precipitation annually. Average monthly precipitation ranges from 48 mm in February to 103 mm in September. Snow can fall from October to April, but significant accumulations are normally limited to the months of November to March. Snowfall averages 54 mm (expressed in mm of water) for these five months.
The average annual daily temperature is 2° Celsius (**C**). The warmest month is July, when the average daily temperature is 14°C, and the coldest month is January, which averages -16°C.

From June to January, southwest winds are dominant, while from February to May, the prevailing wind comes from the northwest. Winds have a typical velocity varying between 11 and 14 kilometers per hour (**km/h**), for an average of 13 km/h during the year. The climatic data used to characterize the site come from the meteorological station of Val d'Or, about 165 km south of the site. The data were collected between 1961 and 1990.

1.5 INFRASTRUCTURE AND LOCAL RESOURCES

Provincial Highway 109 passes through the property. A high voltage electric power line runs along Hwy 109 between Amos and Matagami. The major population centers for the region are the towns of Amos (pop. 12,823), Matagami (pop. 1,396), and Val-d'Or (pop. 32,491).

The region has a rich mining history, dating back to the late 1950s when geophysical work led to the drill-discovery of the Lac Matagami base metal deposit. The town of Matagami was founded in 1963 with the development of mining in the area, and further drilling of airborne geophysical (electromagnetic and magnetic) anomalies led to the first discovery, the Main Zone, at Douay in 1976. The labour force, suppliers and services that would be required for a mining operation are available locally. The current access road and power line are adequate for a mining operation.

Site facilities include a headframe and garage, an office building with a kitchen, sanitary facilities, limited sleeping quarters, and a large core processing facility that is situated 4.5 km west of Hwy 109. At the site of the Douay West headframe, a shaft was sunk to a depth of only 10 m – there has been no historical mining at Douay. The hoisting apparatus was partially dismantled in 2017.

A 75-man camp was installed in late 2017 just to the west of Hwy 109. Water, electrical power supply, and services are adequate for all-season exploration activities.

1.6 PROPERTY HISTORY

Inco Gold Ltd. (**Inco**) originally claimed the property, discovering the Douay Main Zone in 1976, and the Douay West Zone in 1990 based on airborne geophysics. Forty-four drill holes, for 8,656 m, were drilled on Douay West in 1990 and 1991, resulting in an initial tonnage and grade estimate for the in-situ mineralization.

Prior to 1992, several other gold-bearing intersections were encountered. The 531 Zone was discovered while drilling IP anomalies. Vior obtained an interest in the property in 1986, and attained 100% ownership in January 1992. The initial claims were split into several properties.
In 1992, SOQUEM optioned part of the Douay property. Their exploration work included ground geophysics and core drilling of 22 holes totaling 6,416 m. SOQUEM defined Zone 10 and tested a number of IP anomalies on the property. SOQUEM returned the property to Vior in 1994.

During 1992 and 1993, Vior continued drilling the 531 Zone, and also drilled targets outside the known discoveries.

In February 1995, Vior concluded an agreement that allowed Cambior to earn an interest in the property. Cambior drilled 13 holes in the Douay West zone, and then completed a feasibility study on that zone to evaluate its potential. Cambior established a resource that was accessible by using a surface ramp; however, Cambior later dropped its interest in the property.

1n 1996, Aurizon Mines Ltd. (**Aurizon**) optioned the property from Vior in 1996. Aurizon could obtain a 50% interest in the Douay and Douay West properties by investing a total of $17 million. After drilling seven holes, for 2,520 m, Aurizon started a feasibility study in August 1996, which aimed to evaluate the resources and the profitability of the Douay property. Aurizon constructed a 4.5 km gravel road from Highway 109 to Douay West. In 1997, the power line, head frame, hoist building, and accessory structures were installed. The shaft was sunk down to a depth of 10 m. Between 1996 and 1999, Aurizon drilled eleven holes totaling 6,053 m. In 1997, limited surface stripping was carried out over the porphyry complex on zone 20. In 2000, Aurizon relinquished its option after having spent $5 million.

In 2004, Vior reviewed all the information available for the property, and then in spring 2005, a further 3,384 m were drilled at Douay West and Adam (the latter now part of Porphyry) Zones. Two exploration holes drilled east of the Adam Zone, in the syenite intrusion, led to the discovery of what is now known as the Porphyry Zone.

In 2005, Vior asked Geostat Systems International Inc. (**Geostat**), which is now part of SGS Canada Inc. (**SGS**), to evaluate the various resources and prepare a pre-feasibility study for an open pit mine on the Douay West zone; Geostat defined a probable reserve.

During 2006 to 2007, 53 holes were drilled. Of these, 23 were on Douay West.

In 2007, Vior asked Geostat to update the resource estimate and technical report using new information from 2006 to 2007 drilling at Douay West. The estimation indicated that the property hosted significant measured and indicated resources using a lower cut-off grade than previously, plus additional inferred resources.

In 2009, Vior re-logged and re-interpreted the drillhole data from Douay West. In 2010, spurred by increased gold prices, Vior had SGS update the Douay West resource estimate and conduct a preliminary economic assessment (**PEA**).

Following an option agreement between Aurvista Gold Corporation (**Aurvista**) and Vior in late 2010, four drillholes for 2,097 m established Douay West mineralization to a depth of 500 m from surface.

Between 2011 and 2017, Aurvista drilled 179 drillholes for 62,215.97 m throughout the property. The following Zones were tested within the resource area: Douay West, Northwest, Central, Porphyry, Main, 10, 20, and 531. Aurvista also conducted various ground and airborne magnetic, electromagnetic, and induced polarizations studies of all or parts of the property.

On November 20, 2017, the company announced that it had changed its name to Maple Gold Mines Ltd., and began trading under a new symbol.

In 2018, Maple Gold drilled 52 drillholes for 21,143.84 m, and completed a mapping program and selective re-logging of historic drill core. Drilling on the low drillhole density area between the Porphyry, Douay West and NW zones resulted in the discovery of a new gold mineralization zone named “Nika zone”.

During the 2019 drilling program, 15 drillholes were completed for a total of 6,045 meters. Out of the 15, thirteen holes were drilled within the existing resource area at Nika, Porphyry, and 531 zones, and two holes were exploratory aiming to test the ground to the south of the Porphyry zone.

1.7 MINERAL RESOURCE ESTIMATES

1.7.1 2019 MINERAL RESOURCES

On December 9, 2019, Maple Gold announced the filing of a National Instrument 43-101 Technical Report for the updated Mineral Resource Estimate on its Douay Gold Project. The report was prepared by Roscoe Postle Associates Inc. (**RPA**) in accordance with the standards and guidelines set out in 2014 by Canadian Institute of Mining, Metallurgy and Petroleum (**CIM**).

The Technical Report is publicly available on SEDAR (www.sedar.com) under Maple Gold's profile and on the Company's website (www.maplegoldmines.com). It is filed under the title "Technical Report on the Douay Gold Project, Northwestern Québec, Canada. NI 43-101 Report." The report was prepared by the RPA's Qualified Person Ms. Dorota El Rassi, P.Eng, and was dated December 9, 2019 with the effective date of October 23, 2019.

The mineral resource estimate was reported using a 0.45 g/t Au cut-off grade for a potential open pit-mining scenario, and a 1.0 g/t Au cut-off grade for the underground resource below the pits. The total Indicated mineral resources were estimated to contain 8.6 million tonnes (**Mt**) at an average grade of 1.52 g/t Au (equivalent to 422,000 ounces of gold). The total (in-pit plus underground) inferred resources were reported to be 71.2 Mt at an average grade of 1.03 g/t Au (equivalent to 2.35 million ounces).

Table 2. Summary of Mineral Resource Estimates, as of October 23, 2019

Category	Tonnes (Mt)	Grade (g/t Au)	Contained metal (Oz)	Cut-off grade (g/t Au)
Pit Constrained Mineral Resources				
INDICATED	8.6	1.52	422,000	0.45
INFERRED	65.8	0.97	2,045,000	1.00
Underground Mineral Resources				
INFERRED	5.4	1.75	307,000	1.00
Total Mineral Resources				
INDICATED	8.6	1.52	422,000	0.45
INFERRED	71.2	1.03	2,352,000	1.00

Notes (RPA NI 43-101 Report, 2019):
1. CIM (2014) definitions were followed for Mineral Resources.
2. A minimum mining width of three metres was applied to the Mineral Resource wireframes.
3. Bulk density of either 2.71 t/m3 or 2.82 t/m3 was assigned to Mineral Resources based on the zone.
4. Mineral Resources are reported above a cut-off grade of 0.45 g/t Au for a potential open pit scenario and 1.0 g/t Au for a potential underground scenario.
5. The Whittle pit shell used to estimate Mineral Resources used a long-term gold price of US$1,500 per ounce, however the implied gold price for the Mineral Resources reported at the elevated cut-off grade would be significantly lower.
6. Mineral Resources are estimated using a recovery of 90%.
7. Numbers may not add due to rounding.
8. Mineral Resources that are not Mineral Reserves do not have demonstrated economic viability.
9. Pit constrained Mineral Resources are reported within a preliminary pit shell.

1.7.2 HISTORICAL MINERAL RESOURCES

This section summarizes some of the more recent resource estimates for the Douay property, starting with 2018. Mineral resources, which are not mineral reserves, do not have demonstrated economic viability.

2018

On February 14, 2018, Maple Gold announced the results of an updated mineral resource estimate for the Douay project. Using a base-case cut-off grade of 0.45 g/t Au, the estimated indicated mineral resource for the property was 9,383,000 t at 1.59 g/t Au, for 479,000 ounces (**oz**) of gold. The estimated inferred mineral resource was 84,152,000 t at 0.97 g/t Au, for 2,759,000 oz Au.

The mineral resource estimation was prepared in accordance with CIM Standards of Mineral Resources and Reserves (2014).

The details of the resource estimate are in the technical report titled "NI 43-101 F1 Technical Report, Updated Resource Estimate For The Douay Gold Project, Douay Township Quebec, Canada; Report Date: March 15, 2018", by William J. Lewis, B.Sc., P.Geo., Richard M. Gowans, B.Sc. P.Eng., and Antoine Yassa, P.Geo. The effective date for the report was February 9, 2018.

2017

On April 11, 2017, Maple Gold (then Aurvista Gold) released the results of an updated mineral resource estimate for the Douay project. Using a base-case cut-off grade of 0.5 g/t Au), the estimated inferred mineral resource for the property was 83,327,000 t at 1.05 g/t Au, for 2,813,000 oz Au.

In the past, some resources had been classified as measured and indicated; however, for the first time, the mineral resources for all eight zones together were viewed as amenable to open pit-mining methods. Douay West had previously been considered as a target for underground mining.

The mineral resource estimation was prepared in accordance with CIM Standards of Mineral Resources and Reserves (2014).

The details of the resource estimate are in the technical report titled "NI 43-101 F1 Technical Report, Updated Resource Estimate For The Douay Gold Project, Douay Township Quebec, Canada; Report Date: April 10, 2017", by William J. Lewis, B.Sc., P.Geo., Richard M. Gowans, B.Sc., P.Eng., and Antoine Yassa, P.Geo. The effective date for the report was February 15, 2017.

2015

On April 22, 2015, Maple Gold (then Aurvista Gold) released the results of an updated mineral resource estimate for the Douay West zone, which was created as part of a PEA.

Using a base-case cut-off grade of 0.30 g/t Au, the estimated indicated mineral resource for the Douay West zone was 2,558,000 t at 2.77 g/t Au, for 227,982 oz Au. The estimated inferred mineral resource was 1,413,000 t at 1.65 g/t Au, for 74,913 oz Au.

The details of the resource estimate are in the technical report titled "Technical Report and Preliminary Economic Assessment on the Douay West Gold Property, Douay Township, Northwestern Quebec, Canada, NI-43-101 and 43-101 F1; Report Date: January 22, 2015", by E. Puritch, P.Eng., C. Duke, P.Eng., K. Rodgers, P.Eng., J. L. Pearson, P.Eng., A. Hayden, P.Eng., G. Watts, P.Eng., and D. Gourde P.Eng. The effective date for the report was December 9, 2014.

2012

Using a base-case cut-off grade of 0.30 g/t Au, the estimated indicated mineral resource for the Douay project was 2,689,000 T at 2.76 g/t Au, for 238,433 oz Au. The estimated inferred mineral resource was 40,244,000 T at 0.75 g/t Au, for 2,754,544 oz Au.

The details of the resource estimate are in the technical report tilled "Douay Deposit National Instrument 43-101 Compliant Technical Report; Report Date: August 10, 2012" by Cliff Duke, P. Eng.

1.8 CLAIM STATUS

As of the effective date of this report, October 5, 2020, the Douay property consisted of 669 mining claims over 357 square kilometers (Figure 2).

Maple Gold has 100% ownership of 637 claims over approximately 345 square kilometers. SOQUEM has 25% ownership of a contiguous block of 32 claims covering approximately 12 square kilometers in the north-central part of the property with Maple Gold holding 75% interest.

A complete list of mining claims and their expiry dates is provided in Appendix 1, and the claims are graphically shown on Figure 2 and in Appendix 2 (scale 1:75,000).

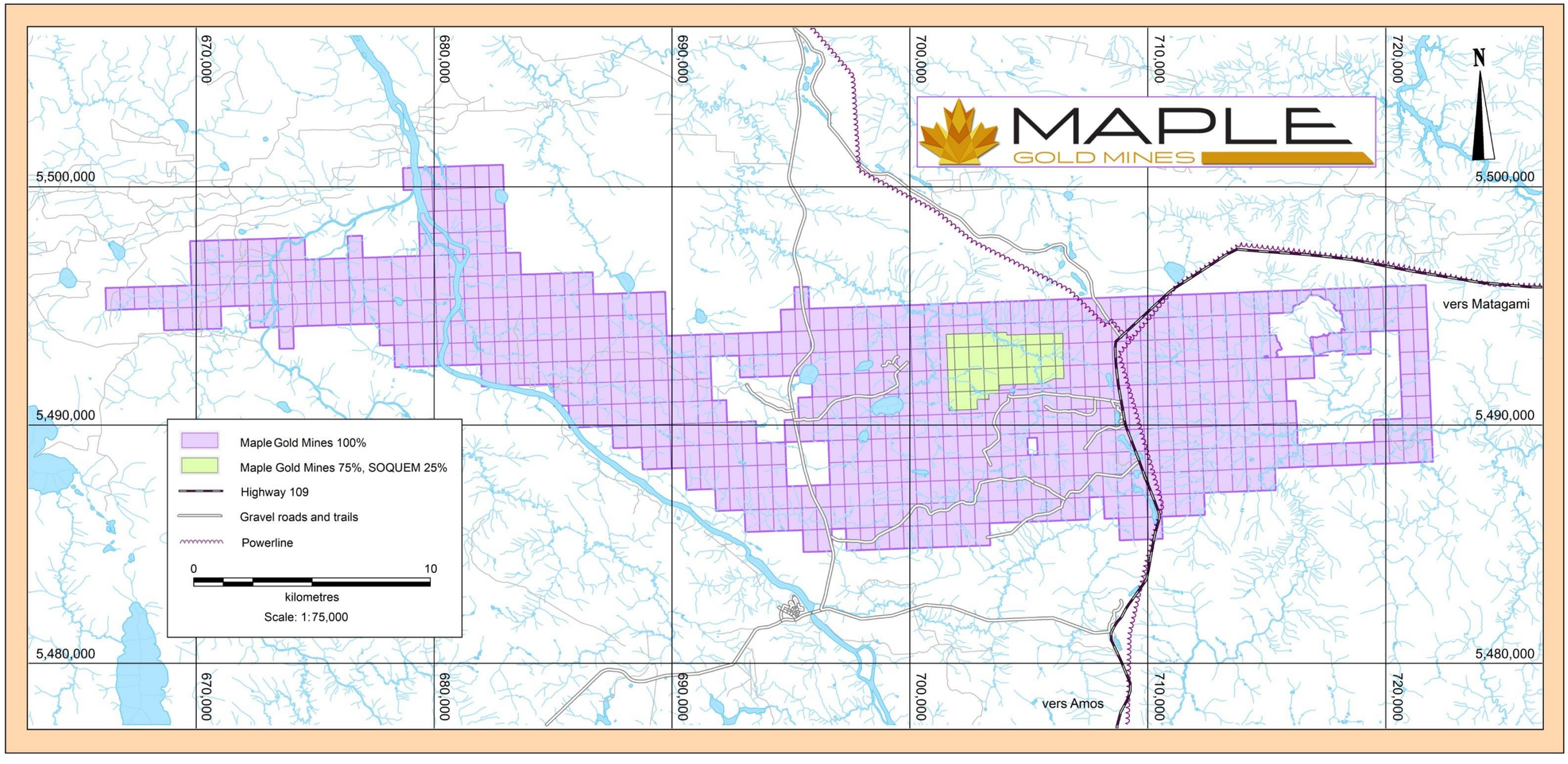

Figure 2. Douay mining claims map, as of October 5, 2020

2 GEOLOGICAL SETTING AND MINERALIZATION

2.1 REGIONAL GEOLOGY AND METALLOGENY

The Douay property lies within the Archean-age Harricana-Turgeon greenstone belt, which is located in the northwestern portion of the Abitibi geological subprovince, part of the Superior province of the Canadian Shield. The property straddles the Casa Berardi Tectonic Zone (**CBTZ**) over a distance of 55 km. The CBTZ is recognized as a major-scale, east-west (E-W)-trending structural corridor with many subsidiary, brittle-ductile splays striking east-southeast-west-northwest (ESE-WNW). The CBTZ is a few km wide in the Casa Berardi area to the west, but widens significantly to over 10km in the Douay area, where it appears to form a regional dilational jog (Figure 3). Traversing the northern portion of the property in an east-west direction, the CBTZ separates, juxtaposes and overlaps two lithotectonic domains: the sedimentary Taibi Domain to the north and the significantly older volcanic-dominant Cartwright Hills Domain to the south.

The Harricana-Turgeon belt development began with several well-defined episodes of volcanism and coeval plutonism, mostly between 2,730 and 2,700 million years ago (***Ma***), followed by high-level plutonism between 2,694 and 2,690 Ma. This represents the main phase of construction of volcano-plutonic edifices. The first significant episode of contractional deformation (D1) was accompanied by the emplacement of diorite-tonalite intrusions at about 2,685 Ma, which was followed by flyschoid sedimentation (Timiskaming event) between 2,690 and 2,687 Ma (Robert, 2001). This sedimentation was accompanied by the emplacement of high-level alkaline intrusions and, locally, their volcanic equivalents. The timing of the latter igneous events is well-constrained and is bracketed between about 2,680 and 2,672 Ma (Robert, 2001). This Timiskaming event was followed by the main period of greenstone belt deformation and associated with (as well as outlasted by) granitic plutonism. Deformation included north-south shortening (D2) which evolved to dextral transcurrent deformation (D3) localized mainly along major fault zones (Robert, 2001).

Major fault or tectonic zones, including the CBTZ, are important structural elements in the Abitibi Greenstone belt, as they control the belt-scale distribution of gold deposits, as well as the Timiskaming-type sedimentary rocks and associated alkaline intrusions and their related gold systems (Robert, 2001). Several of the syenitic intrusions hosting gold mineralization have been directly dated. Douay gave 2,679 +10/-7 Ma (Robert, 2001). At Canadian Malartic, virtually identical (zircon U-Pb) ages of 2,677-2,679 Ma were obtained on porphyritic monzodiorite (Helt, 2014).

The syenite-associated gold event, of which Douay forms part, is significantly younger than synvolcanic volcanogenic massive sulphide formation, but older than most orogenic gold deposits.

The prominent types of gold or gold-rich deposits of the region are orogenic, intrusive-related gold systems (**IRGS**), and volcanogenic massive sulphide (**VMS**). Orogenic gold deposits in the Abitibi include Casa Berardi, Sleeping Giant, and Vezza. Examples of VMS deposits include Horne, Bousquet, LaRonde, Joutel, Matagami, and Estrades. Intrusive-related gold systems (**IRGS)**, are represented by Beattie,

Malartic, Young-Davidson, and Douay although recent work has indicated that Malartic while spatially associated with the above-mentioned intrusions, may actually be of the orogenic type. All three of these types of gold deposits are known to occur along the CBTZ, and therefore potential exists for all three of these on the Douay property.

2.2 LOCAL AND PROPERTY GEOLOGY

Three distinct lithological assemblages are recognized within the limits of the Douay property (Micon 2018):

1. A magmatic Cartwright Hill Group (**Cartwright**) dominated by massive and pillowed flows of iron and magnesium-rich tholeiitic basalts with lesser ultramafic units, relatively narrow, lenticular sedimentary interflow and exhalative horizons, as well as felsic flows and interflow pyroclastics. Coarse-textured mafic rocks are commonly interpreted as co-magmatic gabbroic sills and dykes. The Cartwright assemblages cover the greatest part of the property.
2. A sedimentary sequence, the Taïbi Group (**Taibi**), composed of clastic turbidites (siltstone to greywacke), polymictic conglomerates, Algoma-type banded iron formation, felsic to intermediate volcanics and pyroclastics, and minor basalts. The Taïbi sequence (<2,696 Ma, Pilote et al., 1999) rests unconformably on the older Cartwright rocks (2,721 Ma, Legault et al., 2002), and both originate in a deep marine environment with active volcanic centers.
3. The Douay alkaline intrusive complex (2,676 Ma, Davis et al., 2000) mostly intrudes Cartwright rocks in the north-central portion of the property, at or near the contact with the Taibi domain. The alkaline complex includes actual syenite (<5% modal quartz), quartz syenite and monzonite, with lesser carbonatite and alkaline gabbro. At least five textural types of syenitic rocks are recognized in the Douay intrusive complex:
    - aphyric,
    - aplitic,
    - porphyritic with feldspar phenocrysts,
    - porphyritic with quartz and feldspar phenocrysts, and
    - pegmatitic.

Rocks of the Douay property are generally metamorphosed to the greenschist facies and, strictly speaking, they are metavolcanic and metasedimentary assemblages.

The Cartwright mafic rocks are typical greenstone assemblages composed of chlorite, actinolite, epidote, calcite, albite, and minor quartz. Ultramafic units are serpentinized, amphibolized, and chloritized in various proportions. Both mafic and ultramafic rocks exhibit similar textural variations: pillowed, variolitic, massive, and gabbroic. Komatiitic lavas locally have characteristic spinifex and cumulate textures.

Pillowed flows are fine-grained to aphanitic with local flow breccias and rare amygdules. Pillows rarely exceed one meter in size and are recognized in the drill core and on outcrops by narrow, 1-3 cm thick,

dark green chilled selvages. The scarcity of amygdules suggests that lavas formed in deep-water conditions.

Massive flows are rather homogenous in appearance, fine to medium-grained, sometimes exhibiting diabasic (ophitic to sub-ophitic) textures formed by small whitish plagioclase laths floating in a fine, dark green groundmass. Coarser-grained massive intervals are composed of dark green, rounded ferromagnesian grains (relict olivine or pyroxene) surrounded by finer-grained plagioclase aggregates. Massive layers are often described as gabbro or gabbroic basalt.

Sedimentary assemblages intercalated with Cartwright mafic-ultramafic flows form lenticular horizons, typically several cm to several m thick, but locally several tens of meters thick. They are interpreted as interflow turbiditic sequences consisting of argillaceous sedimentary rocks (black shale, graphitic argillite, siltstone, mudstone), greywacke, and sandstone. Sedimentary rocks also include massive and laminated cherts and possibly minor iron formations.

The volcano-sedimentary assemblages of the Taibi Group are composed of turbiditic sequences of detrital sedimentary rocks (argillite, mudstone, greywacke, conglomerate), lesser pyroclastic rocks, mafic and felsic volcanic flows, and iron formation.

2.3 STRUCTURE

This chapter is edited after the RPA NI 43-101 Report, 2019:

At the property scale, the rock units form east-west to east-southeast trending lithotectonic assemblages indicative of a broadly north-south oriented maximum compression. The rock assemblage appears to be dissected by three main sets of east, northwest, and possibly lesser northeast trending faults, interpreted from drill data and inferred from breaks in the magnetic data. The east and northwest trending faults represent the Casa Berardi and Douay regional trends, respectively. Both sets locally connect to form an east-west, dextral transpressive fault system (RPA NI 43-101 Report, 2019; Micon, 2018).

At the scale of the drill core, foliation development is not pervasive, being instead focused at lithological or alteration contact zones. Foliation is generally well-developed in felsic volcanic and sedimentary rocks, and carbonatite bodies (although some of the foliation there may be magmatic) and represent metric to decametric width, major ductile to brittle-ductile shear zones, typically but not exclusively on the margins of intrusive bodies. These structures appear to have formed with development of breccia zones of various sizes. Generally, the breccias, including crackle, chaotic, and mosaic breccia, are either monolithic or heterolithic with a quartz, calcite, and/or chlorite and locally specular hematite matrix. In the sedimentary and felsic rock units, the shear zone foliation is locally crenulated without significant development of any new fabric. In addition, minor shear zones, joints, and veinlets with lesser veins are common structures in all rock units. The veinlets are often sheared and form extensional structures of various sizes with calcite, epidote, chlorite, quartz, or anhydrite infill.

Graphitic shear zones are common at Douay West. They are sub-concordant with the stratigraphy and, though they reach up to 30 m in true thickness, they rarely exceed 10 m. The mafic composition of the sheared rocks reflects that of the protolith affected by this focused deformation, although sheared graphitic interflow sedimentary horizons are also present. Chloritization and carbonatization (generally intense) are the most common alterations within these shear zones. Pyrite, though not characteristic, is frequently present. Anomalous gold values can sometimes be found.

Schistosity, as noted in the orientation tests in drill holes and interpreted from geological and geophysical data, appears to generally be east-southeast (090° to 110°) and is typically steeply dipping (60° to 85°) to the south; this fault set is described by Maple Gold as forming part of the Casa Berardi set. A second set of structures, generally oriented east-southeast (approximately 105°), dips more shallowly, i.e., approximately 50° to 60° to southwest. The mixed pyroclastics and sedimentary rocks located north of the principal syenitic intrusive complex are definitively more strongly and pervasively deformed.

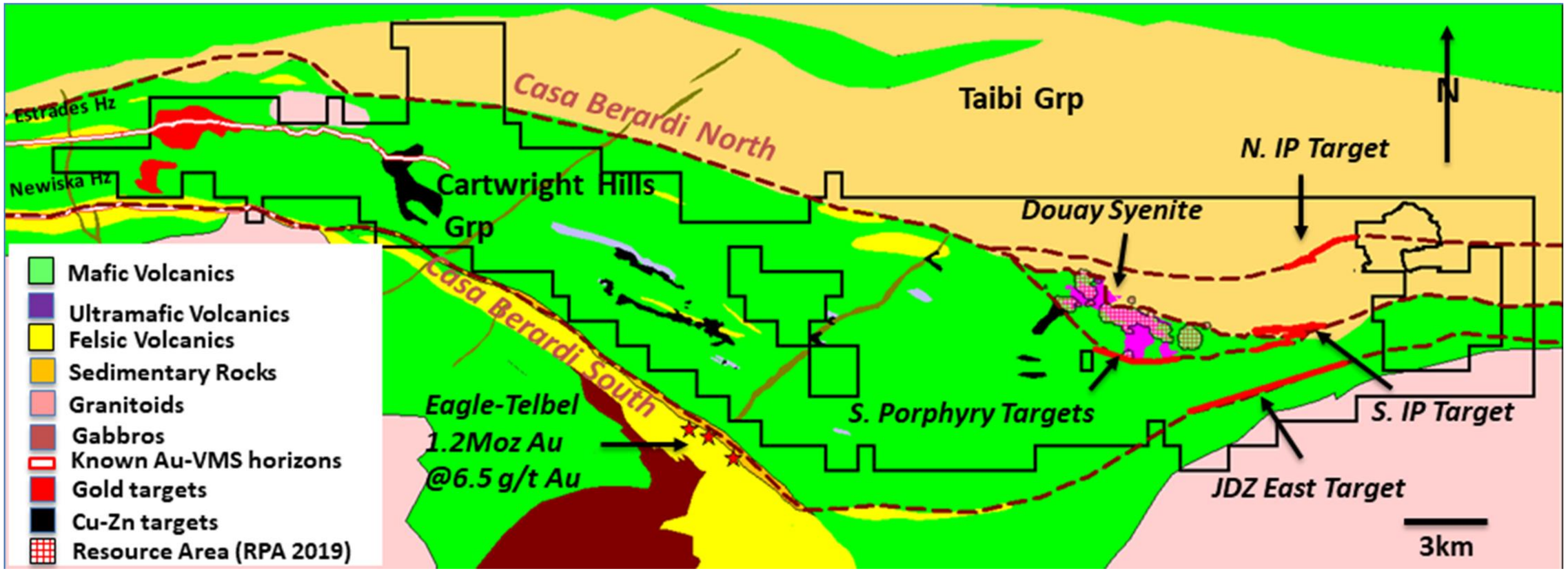

Figure 3. Simplified regional geology map with Douay property outline as of October 5, 2020

2.4 ALTERATION

On the regional scale, the volcano-sedimentary sequences at Douay have undergone greenschist facies metamorphism, which produced characteristic green-coloured assemblages. Typical greenstone assemblages of mafic rocks primarily consist of chlorite, tremolite-actinolite, epidote, albite, carbonate, and minor quartz, which replace the original ferromagnesian silicates and calcic plagioclase. Ultramafic and high-magnesian mafic volcanic rocks are altered to chlorite, actinolite, carbonate, and serpentine. Leucoxene is common as an alteration product of titanium-bearing accessory minerals such as ilmenite and titanite.

Some parts of basaltic top flows had probably undergone pre-metamorphic alteration (spilitization) during interaction with sodium-rich seawater. The spilitized intervals are characterized by pale greenish grey aphanitic matrix and a great number of creamy white to beige veins composed of epidote-group minerals (epidote, zoisite, clinozoisite), sodic plagioclase, quartz, and calcite.

The local scale post-metamorphic metasomatic processes are linked spatially to brittle-ductile structural zones and probably genetically to the Douay alkaline intrusive complex and are superimposed on the regionally developed greenstone assemblages. The lithological assemblages at Douay have experienced multiple episodes of hydrothermal alteration. Alteration products depend on the initial host rock composition and on the origin of the metasomatizing fluids. The extent of altered zones ranges from a few mm-wide halos around fractures and veins to several tens of meters or even hundreds of meters in some cases.

Three mineralogically and geochemically distinct alteration associations can be distinguished (only main minerals noted):

1) Fe-carbonate ± sericite ± albite ± chlorite assemblages associated with brittle-ductile shear zones,
2) K-feldspar + hematite + carbonate alteration in fractured zones within in a broad range of rock types, and
3) albite ± fluorite ± silica ± carbonate assemblages, which are generally restricted to bleached, crackled porphyry.

There may be two major and distinct fluid sources: 1) metamorphic fluids generated by metamorphic dehydration reactions that led to the formation of the first group of alteration assemblages, more typically associated with orogenic gold systems, and 2) alkali-rich metasomatic fluids, which originated from the Douay alkaline-carbonatite complex and formed two other assemblages. The temporal relationships and evolution of the alteration processes remains uncertain at this point. Multiple phases of magmatic injections ranging in composition from syenitic to felsic, and texturally from aplitic to pegmatitic, apparently resulted in multiple overprinting hydrothermal events. The two first alteration associations can occur independently or co-exist spatially. Some carbonatized shear zones contain remnants of red potassic alteration suggesting that the metamorphic-related carbonatization overprinted previously

fenitized intervals. On the other hand, fractures filled by orange-red K-feldspar crosscut some carbonatized zones.

Alteration assemblages produced by **alkali metasomatism (fenitization)** include both potassic- and sodic-rich phases. Potassic alteration is more widespread and overprints all lithologies, whereas sodic (albitic) alteration is less common and was mainly observed within the porphyry. Albite is associated with quartz, minor carbonate, dark purple fluorite, and some REE-rich accessory minerals. Fluorite and specularite-rich albitite veins were also noted in sheared Taibi metasedimentary rocks near the northwestern boundary with the syenitic porphyry.

Zones of potassic alteration are typically red-coloured due to dusty particles of hematite in feldspar grains; however, not all red-coloured zones are potassically altered, as can be demonstrated by low K contents using the pXRF. Biotite is the dominant potassic phase in high magnesium mafic and ultramafic rocks. Potassic zones may also contain bluish sodium-rich amphiboles (riebeckite?) and black pyroxenes (could be aegirine, augite). The intensity of potassic alteration is stronger within the intrusive complex and in the immediate wallrock and decreases away from the porphyry. Reddish fenitized halos also appear around carbonatite veins in distal parts of the property (531 zone, Taibi assemblages) and have often been misidentified as syenite in the past on the basis of colour.

Carbonatization is the most common and widespread type of alteration. Various carbonate minerals, which formed through the breakdown of Fe-, Mg- and Ca-rich silicates in the presence of CO_2-rich oxidizing hydrothermal solutions, occur in almost all alteration assemblages. Calcite is typically present in the less altered parts of deformation zones, often on their flanks, whereas iron carbonates (ferroan dolomite to ankerite) tend to be in the heart of strong deformation and intense alteration. Epidote, common alteration mineral in greenstone, disappears on the margins with such zones serving as a marker for a possible mineralization ahead.

Sericitization occurs mainly in shear zones forming fine wispy aggregates typically defining the foliation and in fissures. Intense and more pervasive sericitization was observed in sheared metasedimentary, metavolcanic, and metapyroclastic rocks of the Taibi group.

Hematitization often accompanies potassic alteration colouring the rocks in various shades of red. Specular hematite is found in fault zones (commonly in porphyry), late fractures and carbonate veins and in some shear zones where it replaces fine disseminated grains and fine-grained, fracture-filling aggregates of magnetite by the process called martitization. It is necessary to note that red hematite staining is not always indicative of the potassic alteration; it rather reflects the oxidizing conditions. In a general sense, the predominance of hematite over magnetite in syenite contrasts with that of magnetite over hematite in the basalt host rocks, which could be interpreted as some kind of oxidation front.

The *sensu stricto* **silicification**, which involves the addition of silica to the rocks, whether as irregular quartz veinlets, crackle to hydrothermal breccia matrix or more pervasive fine-grained quartz, is scarce. Silica-flooding, quartz veinlets (only locally forming stockworks) and brecciated zones are limited in extent and

were mainly observed in the Porphyry Zone in association with albitization. The broader-termed silicification, which includes the formation of microcrystalline quartz during the metamorphic breakdown of greenschist assemblages, develops in shear zones and as narrow alteration halos around hydrothermal veins. Unlike typical orogenic gold systems, quartz veins (>2cm width) are largely absent at Douay.

Leucoxene, which is a common alteration product in basalts, was also noted in syenitic intrusions replacing titanite and in zones of intense carbonatite-related alteration in gabbroic basalts where it forms replacement rims around titanium-rich garnet, titaniferous magnetite, ilmenite, and other titanium-bearing minerals.

Calcium sulphate (anhydrite or gypsum) is one of the latest alteration minerals filling cracks and tension veinlets that crosscut older structures. Anhydrite-gypsum, typically pinkish due to weak hematite staining, was observed filling re-opened spaces along epidote veinlets within basalt and in late veinlets crosscutting fluorite-filled fractures in porphyry. **Barite** is another major component of late alteration assemblages, often bright orange-coloured, which are found in cracks in fenitized rocks.

Elevated gold values (>0.1 g/t Au) are generally found in all three alteration assemblages listed above, typically where altered zones are spatially associated with intense deformation (brittle in syenitic and silica-rich sedimentary rocks and brittle-ductile in mafic to ultramafic wallrocks) and in the presence of pyrite mineralization (as little as 0.5% up to over 10%). However, not all deformation zones are mineralized in gold. Higher grades tend to occur in sheared zones with strong iron carbonate alteration (assemblage #1). Highest gold grades (>10 to 2,888 g/t Au), often with visible gold specks, are associated with greyish translucent quartz veinlets or silica flooding, most commonly within syenitic intrusive rocks. Free native gold has been noted in crackled, albitized intrusive rocks with fluorite and quartz veins.

2.5 MINERALIZATION

Sulphide minerals, from most to least abundant, include pyrite, chalcopyrite, pyrrhotite, and rare sphalerite, galena, molybdenite, and arsenopyrite. Native gold is also occasionally noted, particularly in the Porphyry Zone but also elsewhere. Minor visible gold was observed in association with patchy pervasive silicification or irregular, discontinuous quartz veinlets. Chalcopyrite forms anhedral grains and fine masses in sediments; it also occurs in specularite-filled fractures within various lithologies and in quartz-calcite-fluorite-pyrite filled crackles in syenitic rocks. It was noted that the presence of chalcopyrite in mineralized quartz veins within the Porphyry Zone correlates with higher gold grades. Brownish pyrrhotite is present in sedimentary rocks and mafic volcanics as weakly magnetic anhedral aggregates. Sphalerite was seen in some sedimentary units of probably exhalative origin, in carbonatite injections within Cartwright Group volcanics, and in association with galena and minor chalcopyrite in hydrothermal veins within Taibi assemblages. Molybdenite was noted in the Porphyry Zone in hydrothermal veinlets, and traces of arsenopyrite were observed in Taibi pyroclastics and sediments.

Pyrite, the dominant sulphide phase, is present in numerous generations and was found in most of the rock types. Grain size varies from sub-mm to one cm, and concentrations range from traces to semi-massive accumulations. Pyrite abundance does not necessarily correlate with gold concentration. Exhalite sediments, for instance, often host significant amounts of pyrite (>5%) but rarely show any gold values. However, some pyrite (approximately 2% on average, but occasionally as little as 0.5% or as much as >10%) is always present in gold zones. The type of pyrite, rather than the amount, is more important with regard to gold mineralization.

There are at least five generations of pyrite:

1. Sedimentary pyrite as fine disseminations, blebs, pods, nodules, stringers, bands, and anhedral masses, sometimes in association with pyrrhotite, chalcopyrite, and rarely sphalerite. Generally non-auriferous.
2. Pyrite as a product of sulphidation of magnetite and Fe-rich mafic minerals in basalts and sedimentary rocks. Can be auriferous, e.g. at Douay West Zone.
3. Structurally controlled pyrite as fracture fill, as crackle breccia matrix or as matrix to hydrothermal breccias, in grey quartz-calcite veinlets, sometimes in sub-mm veinlets or fracture-fillings with some chlorite. It commonly has characteristic greyish, less brassy colour ('black pyrite'). Often associated with gold mineralization.
4. Disseminated pyrite: euhedral to anhedral; seems to overprint structurally controlled pyrite as well as pyrite replacing magnetite; often associated with zones of strong pervasive alteration (carbonatization, albitization, silicification, fenitization); possibly auriferous.
5. Disseminated pyrite is often present in small quantities (<1%) in relatively non-altered basalts and intermediate dykes but is generally not auriferous.

2.6 MINERALIZED ZONES DESCRIPTION AND GEOMETRY

The Douay deposit currently consists of nine mineralized zones: Douay West, Northwest, Nika, Central, Porphyry, Main, 10, 20, and 531. Gold mineralization is interpreted to follow an overall ESE trend over a strike distance in excess of 6.0 km (Figure 3). The Douay West and Porphyry Zones account for the majority of the Mineral Resources.

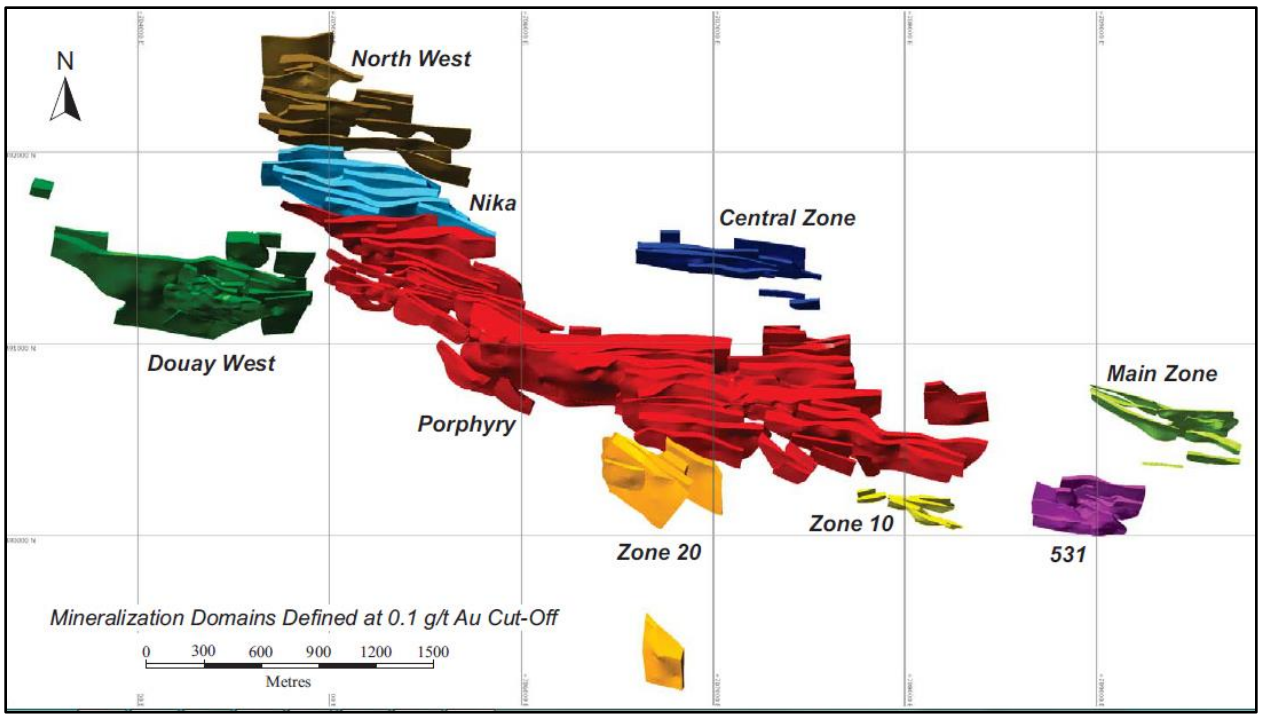

Figure 4. Location of mineralized zones. Planview of mineralization wireframes (as of December 2019, from RPA NI 43-101 Report, 2019).

2.6.1 DOUAY WEST ZONE

The Douay West (DW) Zone is located five to thirty meters north of a main graphitic fault zone (Casa Berardi deformation system). The rock units located between the fault zone and the mineralized zone are relatively competent (rock quality designation (RQD) >75%). The mineralized zone extends over a strike distance of approximately one kilometer and trends 100°. The zone is composed of several sub-parallel bodies that trend from 90° to 100°, and dip from -55° to -65° to the south. The drilled thickness of each of the individual bodies ranges from less than one meter up to 65 m, with metric distances between the mineralized lenses.

Gold-bearing mineralization is structurally-controlled and occurs in pyritized and variably altered, often hematitic, zones within mafic volcanic rocks. On the north side of the zone, gold grades are also associated with mixed syenite and basalt intervals representing an intrusion-related contact style of mineralization similar to that in the Porphyry zone.

Bleaching, albitization, carbonatization, and pyritization are the dominant alteration and mineralization patterns. Sericitization, ankeritization and weak hematitization are present as well. Alteration is strongest in the center of the gold zones. Weaker gold concentration in the peripheral zones correlates with weak pyritization and alteration. Foliation, and/or brecciation structures are common, in many cases with

mylonitic textures in altered basalts. Visual estimates of 1% to 30% pyrite of various types do not provide a direct estimate of expected gold grade.

2.6.2 PORPHYRY ZONE

The Porphyry zone hosts high-tonnage, low-grade, structurally-controlled gold mineralization. It is the largest of the mineralized zones on Douay. The name of the zone reflects the porphyritic texture of one of the main phases of the Douay alkaline complex. It is not a classic porphyry-type deposit, as it lacks the typical multiple generations of well-developed stockworks. It may instead be considered as an intrusion-related gold system (IRGS), a relatively new ore deposit class genetically linked to intermediate to felsic plutons.

The Porphyry Zone has an overall trend of 100° to 110° over a strike distance of 3.5 km. The overall width is approximately 500 m. It is composed of east-west to east-southeast oriented, subparallel mineralized lenses, with each lens typically tens of meters with some over 100 m thick. The lenses dip to the south at -60° to -65°.

Gold mineralization is structurally controlled and hosted in brittle-ductile zones in mixed basalt-syenite intervals and brittle zones within the intrusive complex. Hydrothermal alteration in mineralized zones is variably developed as a function of wallrock composition and proportional to the intensity of deformation. Alteration patterns include: 1) Fe-carbonatization, sericitization, +/-chloritization, +/-magnetite, mostly in mafic volcanic and mafic-derived interflow sedimentary rocks; 2) potassic alteration, hematitization, carbonatization (calcite), +/-sericitization in almost every lithological type; 3) albitization, silicification, +/-fluoritization, +/-carbonatization (dolomite) in the intrusive phases. Biotite is the main secondary potassic mineral in magnesium-rich basalts and ultramafics, whereas K-feldspar dominates in mafic and felsic rocks.

Pyrite commonly accompanies gold mineralization; however, its concentrations are not necessarily indicative of gold enrichment. It has been noted that the presence of chalcopyrite along with pyrite in quartz veins in the Porphyry correlates well with higher gold values.

2.6.3 NORTHWEST ZONE

The Northwest zone has an overall east-southeast trend over a strike distance of approximately 900 m. The overall width is approximately 400 m not including what is now called the Nika Zone. It is composed of subparallel, sub-continuous mineralized lenses trending 95° to 100° and dipping to the south at -50° to -65°, with each lens typically 100 m to 1000 m long. The drilled width of mineralized zones ranged from less than one meter to 40 m, with an average drilled width of 11 m, and the intervals of barren rock in-between varied from less than one meter to 100 m.

The Northwest zone is underlain by a mixed basalt-syenite lithological assembly, similar to the Porphyry and Nika zones. The assemblages exhibit various types of alteration. Carbonatization (calcite and ankerite), chloritization, and epidotization are the main alteration types seen in this area. Epidote is mostly restricted to basalt, whereas calcite, ankerite, and chlorite occur in all rock types. Localized silicification is mostly developed in felsic and intermediate rocks.

Gold grades are mainly associated with ankeritization and silicification along with fine pyrite mineralization and are largely controlled by brittle and ductile structures.

2.6.4 NIKA ZONE

The Nika zone was discovered in 2018 by testing drilling gaps between Douay West, Porphyry, and Northwest zones. The Nika zone has an overall east-southeast trend over a strike distance of 840 m with an overall width of 350 m. It is composed of several individual sub-parallel to linked, or multi-limbed, lenses trending 100°, with each lens typically 100 to 1,900 meter long. The mineralized bodies dip to the south at -70° to -85°, separated by less than one meter up to 70 m intervals of low grade to barren rock. The lenses range from a drilled width of less than one meter to 60 m, with an average drilled width of 8.5 m. Geologically, the Nika Zone is very similar to the Porphyry Zone; both are underlain by a mixed basalt-syenite sequence, including some thick syenitic dykes that are well mineralized. Carbonatite dykes and carbonatite-related hydrothermal veins crosscut both basalt and syenite.

2.6.5 CENTRAL ZONE

The Central zone is located north of the Porphyry Zone, and east of the Northwest and Nika zones. It has been sparsely drilled over a strike distance of 1.5 km, with one to two holes on sections spaced at 100 m intervals. The zone has an overall trend of 100°.

The mineralization consists of narrow, sub-parallel, discontinuous and stepped bodies over a strike distance of 1,200 m and a width of 600 m. The mineralized bodies dip to the south at -60° to -80°, separated by less than one meter to 100 m intervals of barren rock. The drilled width of lenses ranged from less than one meter to 20 m, typically less than 10 m. The down-dip continuity is better than the on-strike continuity.

2.6.6 20 ZONE

Zone 20 occurs south of the central part of the Porphyry zone. It has an overall trend of 125° over a strike distance of 600 m and a width of 300 m. Portions of the zone appear related and on trend (at 110°) with mineralized bodies at the south portion of the western Porphyry zone; the geological context is also similar, with significant volumes of syenitic rocks mixed with somewhat less basalts in both cases. This zone is unique in its orientation when compared to the other zones on the property.

Zone 20 is composed of several subparallel, sub-continuous lenses trending 125°, with each lens typically 100 m to 500 m long. The mineralized bodies dip to the south at -45° to -50°, separated by less than one meter to 100 m intervals of barren rock. The lenses range from one to 40 m in width, but usually less than 10 to 20 m.

2.6.7 10 ZONE

Zone 10 is located near the southeastern portion of the Porphyry zone, in-between Zone 20 and Zone 531. It has a trend of 90° to 115° over a strike distance of 600 km. The overall width is about 200 m. It is composed of several sub-parallel, sub-continuous mineralized lenses trending 90° to 110°, with each lens typically 100 m to 500 m long. The mineralized bodies dip to the south at -65° to -85°, separated by one meter to 70 m intervals of barren rock. The drilled width of the lenses range from one meter to 60 m, with an average drilled width of 10 m.

Zone 10 is underlain by mixed basalt with multiple interflow sedimentary horizons and only minor syenite, mainly present in the western portion. Geologically, this zone is therefore more similar to the relatively distal (with regard to the syenitic intrusive complex) 531 Zone.

Higher-grade mineralization within Zone 10 is characterized by:

1. Intense (polyphase?) brecciation: More than one type of breccia may be present and are mostly interpreted as fault breccias. This includes intense fracturing, brecciation, shearing, and fault gouge.
2. Pyritization: Up to 15% pyrite, compared to 1-3% in the surrounding rock. Pyrite is predominantly euhedral, disseminated and fracture-controlled.
3. Silicification/sericitization: The rock is pervasively silicified and sericitized, overprinting the composition and textures of the protolith.
4. Felsic unit: Due to intense alteration and brecciation, it is not possible to determine the protolith of the unit with certainty. However, fingers of what appear to be syenitic injections or feldspathic alteration are noted immediately below the high-grade zone. On the other hand, pyroclastic fragments are also present, which are indicative of felsic volcanism. Therefore, this high-grade zone appears to be associated with a unit of felsic composition, whether that is a syenitic intrusion, felsic volcanic, or both.

2.6.8 531 ZONE

The 531 Zone has a trend of 90° to 105° over a strike distance of approximately 500 m. The overall width is 300 m. It is composed of several sub-parallel mineralized, sub-continuous lenses trending 90° to 105°, with each lens typically 100 m to 500 m long. The mineralized bodies dip to the south at -60° to -75°, separated by one meter to 70 m intervals of barren rock. The drilled width of the lenses range from one meter to 60 m, with an average drilled width of 11 m.

The area is underlain by a mafic to ultramafic sequence with multiple interflow sedimentary horizons (argillite, greywacke, chert), together forming part of the Cartwright Group. The zone is located roughly 500 m to the southeast of the Porphyry Zone and has volumetrically very limited syenitic intrusions. Intervals of reddish injections, most of which likely reflect potassic plus hematitic alteration rather than intrusive processes, vary in thickness from a few centimeters to a few meters.

Gold mineralization on the 531 Zone can be characterized in terms of lithology, structure, alteration, and sulphide mineralization. Two styles of gold mineralization can be distinguished:

1. Anomalous to low gold grades (100 ppb Au to 700 ppb Au) are often found associated with abundant (5% to 15%) pyrite as disseminations or aggregates. Rarely, thin (centimetric), semi-massive pyrite bands can be observed within or very close to fractured chert beds and/or argillites ("exhalites") between strongly sheared and/or fractured mafic to ultramafic flows.
2. Gold grades tend to increase significantly, from 1.5 g/t Au to over 10 g/t Au, when discrete (one to five meter thick) structural features such as brecciation, strong fracturing, and/or shearing intersect K-feldspar-carbonate altered and silicified basalts. Pyrite content in these zones tends to be between 2% and 5% mainly as fine (sub- to one millimeter) disseminated subhedral grains and hairline fracture-filling veinlets.

Based on these characteristics of gold mineralization in 531 Zone, some exploration criteria can be developed to help explore for new gold targets in areas of similar geology:

- Low to anomalous gold values appear to be associated with pyrite mineralization along structural features (shear/brecciation), often (but not necessarily) at or near lithological contacts (e.g., basalts/sediments).
- High-grade gold zones appear to be closely associated with similar structural features that have intersected either silicified-carbonatized or fenitized (i.e. K-feldspar/biotite-hematite-carbonate-altered) basalts and ultramafics.
- The extent of the zones appears to be related to both the extent of the brittle-ductile structures and the intensity of alteration, either ankerite-sericite-silica or K-feldspar-hematite-calcite assemblages.

2.6.9 MAIN ZONE

The Main Zone, the original discovery area from 1976, occurs at the sheared contact between mainly Cartwright mafic volcanics to the south and the Taibi volcano-sedimentary sequence to the north. Several of the highest gold drill intercepts, in terms of both grade and accumulation at Douay, were obtained here.

The Main Zone has an overall trend of 105° over a strike distance of 850 m. The overall width is 350 m. It is composed of several subparallel, subcontinuous, mineralized lenses trending 90° to 100°, with each lens typically 100 m to 500 m long. The mineralized bodies dip to the south at -75° to -80°, separated by

five meter to 200 m intervals of barren rock. The drilled width of the lenses range from less than one meter to 49 m, with an average drilled width of 7.5 m.

2.6.10 EXPLORATION POTENTIAL

The current gold resource covers just 4% of the property package and significant potential remains for both resource expansion laterally and at depth as well as for regional discoveries (Maple Gold press release of Sept 20, 2020).

2.7 DEPOSIT TYPES

The following section has been extracted from the RPA NI 43-101 Report, 2019:

Gold mineralization on the Property includes a large, disseminated, pyritic, quartz-poor, structurally controlled style of mineralization, with more distal (with regard to the syenitic intrusive complex) higher grade zones such as at Douay West and 531 Zone, as well as more proximal lower grade zones such as NW, Nika, Porphyry Zone, and Zone 20. The Main and Central zones are distinct both geologically and geophysically, with narrow higher-grade mineralization found near a magnetically depressed lithological contact marking the boundary between the Taibi Group sedimentary rocks to the north and the Cartwright Group volcanic rocks to the south. Much of the mineralization at Main and Central Zones is actually sediment-hosted.

Collectively, this style of mineralization is best described as forming part of the IRGS rather than a true, classic gold porphyry. The alteration zonation and multi-phase stockwork systems typical of classic porphyry systems are absent at Douay. The mineralized zones within and surrounding the locally porphyritic syenitic intrusive complex are likely related to the corresponding intrusive-hydrothermal system, and are predominantly controlled by rock permeability, created either by rheological contrasts between the different lithologies and their associated alteration and/or by deformation zones, particularly along lithological contacts.

The IRGS deposit class is relatively new, and is associated with granitic intrusive rocks. It includes a relatively broad spectrum of deposits; therefore, Douay is best compared to other examples of the alkaline subclass, rather than to IRGS deposits in general. In addition to gold, this type of deposit can also be a significant source for bismuth, tellurium, tungsten, and tin. While these intrusive-related deposits may occur within or near a deformation zone, they are distinct from typical orogenic deposits in that the latter are not generally directly intrusive-associated and tend to be quartz-rich with either quartz veins or silicification.

3 2020 (WINTER) DRILLING RESULTS

3.1 TECHNICAL INFORMATION

The 2020 diamond drilling was carried out from mid-January to the end of March and resulted in completing 17 drillholes of NQ size for a total of 4,541.7 meters. The drillholes ranged in length from 75.8 to 717 m and reached a maximum vertical depth of 680 m from surface. One hole at the NW zone was aborted due to excessive deviations and subsequently re-drilled to the planned depth. Two drillholes targeting the 531 zone were abandoned in overburden before getting into the bedrock due to technical and personnel-related problems. One hole at Nika was stopped before reaching its target due to Covid-19 emergency shutdown of drilling operations.

The main objectives of the 2020 winter drilling were:

1. **531 Zone:** Deepen DO-19-262 to test the continuity of gold mineralization and the potential for new zones at deeper levels. DO-19-262 had cut through two continuous mineralized zones and stopped just a few meters below a high-grade zone.
2. **531 Zone:** Test possible down-dip extensions of gold mineralization to the south of DO-19-262.
3. **Porphyry Zone**: Continue to follow up on higher-grade gold mineralization from 2018-2019 as well as from historical holes and to test its continuity both near surface and at moderate depths.
4. **Nika Zone**: Test the up-dip (near surface) and lateral extensions of gold mineralization in the vicinity of the 2018 discovery holes DO-18-217 and DO-18-218.
5. **Northwest Zone:** Test the potential for the western extension of gold mineralization encountered in a historical hole 4140-94-04, which returned 3.14 g/t Au over 8.9 meters at shallow depths.

A summary of the 2020 drillhole location and collar information is provided in Table 3, Figure 3, and Appendix 3.

Table 3. List of winter 2020 drillholes

Hole_ID	Easting[1]	Northing[1]	Elevation	Length (m)	Azimuth[2]	Dip[2]	Start	End
DO-20-262X	709047.9	5490147.3	-68.7	152.8[3]	5.2	-56.3	26-Jan-20	28-Jan-20
DO-20-269	709037.1	5489871.0	305.2	717.0	352	-70	18-Jan-20	20-Feb-20
DO-20-270[4]	709102.5	5489905.7	302.1	95.0	357.1	-60.5	28-Jan-20	20-Feb-20
DO-20-271[4]	708899.7	5489976.8	310.5	74.0	360	-59.5	3-Feb-20	4-Feb-20
DO-20-272	704773.1	5492401.8	289.6	75.8	360	-55	22-Feb-20	24-Feb-20
DO-20-272A	704773.1	5492400.5	289.7	408.0	360	-60	24-Feb-20	4-Mar-20
DO-20-273	707795.8	5490086.9	299.6	531.0	0.6	-52.3	4-Mar-20	10-Mar-20
DO-20-274	704642.8	5491702.6	288.0	175.9	360	-55	5-Mar-20	9-Mar-20
DO-20-275	705175.5	5491601.5	283.4	347.2	9	-50	10-Mar-20	15-Mar-20
DO-20-276	707882.9	5490081.3	300.6	279.0	360	-53.5	10-Mar-20	13-Mar-20
DO-20-277	708022.7	5490198.2	302.0	150.0	92	-63	13-Mar-20	14-Mar-20
DO-20-278	707804.2	5490381.2	299.3	207.0	2.1	-50.1	14-Mar-20	15-Mar-20

Hole_ID	Easting[1]	Northing[1]	Elevation	Length (m)	Azimuth[2]	Dip[2]	Start	End
DO-20-279	705302.5	5491607.9	283.5	285.0	1.9	-47	16-Mar-20	21-Mar-20
DO-20-280	705875.2	5491139.6	286.4	327.0	360	-55	19-Mar-20	23-Mar-20
DO-20-281	705874.6	5491139.1	287.5	294.0	359.1	-57.5	15-Mar-20	19-Mar-20
DO-20-282	707882.9	5491558.8	283.4	123.0	360	-57	21-Mar-20	24-Mar-20
DO-20-283	705953.0	5491063.5	286.7	300.0	331.9	-55	23-Mar-20	26-Mar-20

[1] NAD83 / UTM zone 17N; the collars were surveyed in 2020 by Maple Gold personnel by using Trimble GPS surveying equipment

[2] Azimuth and dip at collar

[3] The 152.8m assigned to DO-20-262X represent a deepening of a 2019 drillhole DO-19-262 from 432.2 to 585m

[4] Abandoned holes

Three drill companies were contracted during the winter 2020 program. The drilling at the 531 zone was performed by Forage Pikogan Inc. from Pikogan, QC. Forage Roby Inc. from Val-d'Or, QC, drilled at the Nika and NW zones, and Forage RJLL Drilling Inc. from Rouyn-Noranda, QC, drilled at the Porphyry zone.

Pikogan used one Orbit YS-1500 skid-mounted drill rig, RJLL operated one Marcotte HTM 2500 skid-mounted core rig, and Roby used a custom manufactured rig.

Drilling was conducted by using standard 3-meter NQ rods for coring (47.6 mm core diameter) and NW rods for casing (76.2 mm diameter). Each drill operated 24 hours per day, except when broken down or under-staffed.

The drilling rates averaged 63 m per day, with a range from zero to 119 m/day. These averages include breakdown or idle times (Table 4).

Table 4. Summary of drilling by Drill ID

Company	Drill ID	Count of DDH	Total (m)	Start Date	End Date	Drill Days[1]	Avg (m/day)[1]
FORAGE PIKOGAN	PK1	4[2]	1,038.8[2]	16-Jan-20	04-Feb-20	20	65
FORAGE ROBY	4	6	1,414.9	20-Feb-20	24-Mar-20	34	41.5
FORAGE RJLL	FSD-001	7	2,088.0	02-Mar-20	26-Mar-20	25	83.5
		17	**4,541.7**			**79**	**63**

[1]includes breakdowns; [2]includes abandoned holes

The average recovery of core was 98.8%, mainly ranging from 97% to 100% by hole. The recovery between 90 to 100% was recorded in 98.9% of the drill runs of 3 meters; a 100% recovery was in 67% of the runs. There were several highly fractured intervals with partially lost material (CNR, core non-recovered), where CNR ranged from 10 cm to 1.6 m. The average RQD (Rock Quality Designation) values were mostly above 95% ranging from 94 to 100%, with the exception of DO-20-283 (67% RQD) which had frequent intervals of rubbly core.

The vertical length of the overburden from ground surface to the bedrock ranged from 34.4 to 65.8 m; the average vertical overburden thickness was 47 meters.

3.2 UNITS OF MEASUREMENT

All drill hole locations were planned and recorded using the Universal Transverse Mercator (**UTM**) coordinate system with the reference to the North American Datum 1983 (**NAD83**), Zone 17.
All measurements were taken in the metric system.

Drillhole collars locations were spotted prior to drilling using a handheld Garmin GPS unit (model GPSMAP 64SC). The magnetic declination was updated at the beginning of the drill program using the online calculator from National Centers for Environmental Information (NCEI) website (https://www.ngdc.noaa.gov/geomag/calculators/magcalc.shtml#declination).
As of January 15, 2020, the value was 12.75°± 0.44° West (Figure 5).

Since 2005, the drillholes are named in sequence starting with the project name DO (Douay), then the last two digits of the year, followed by a sequential drillhole number in ascending order.

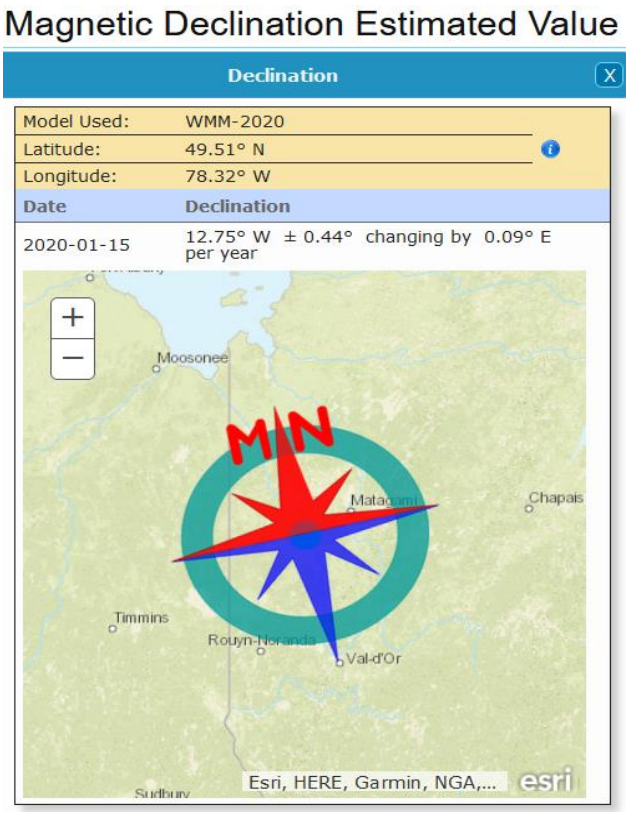

Figure 5. Magnetic declination as of January 15, 2020

3.3 DRILLING RESULTS

A total of 4,541.7 meters were drilled during the winter program of 2020 in seventeen holes, which all were located within the defined mineral resource area. Maple Gold was also planning to test new exploration targets outside the limits of known zones; however, the drill program was shortened due to Covid-19 pandemic-related restrictions.

Seven drillholes were completed within the existing resource area at the Porphyry Zone. Three holes were drilled within its western portion, for a total of 921m, two on its eastern side, for a total of 738m, and two holes were drilled on the southeastern portion of the Porphyry zone (Zone 10) totalling 429m. Four drillholes, for 931.1m, targeted the newest Nika zone, which is located between Douay West, Porphyry, and NW resource areas. Two holes were drilled near the limit of the NW Zone (one aborted due to excessive deviations and one subsequently re-drilled to reach planned depth) for at total of 483.8m. One new hole was completed on the 531 zone and one hole from 2019 was extended, for a total of 869.8m. Two other holes planned for the 531 zone did not reach the bedrock and were abandoned in overburden. The cumulative total drilled there is 1038.8m.

There was no winter 2020 drilling within Douay West, Central, 20, or Main Zones.

Figure 6 shows a general location of the winter 2020 target areas and Figure 7 provides a detailed planview of drillhole collar locations.

Drill core was logged and sampled by qualified geologists:

1. Sokolov Maria, P.Geo (OGQ #1491)
2. Stavre Even, P.Geo (OGQ #2144)
3. Leslie Hunt, GIT

Geotechnical data were collected by qualified technicians:

1. Dioulo Roland, GIT
2. Golovkin Pavel
3. Mapachee Kevin

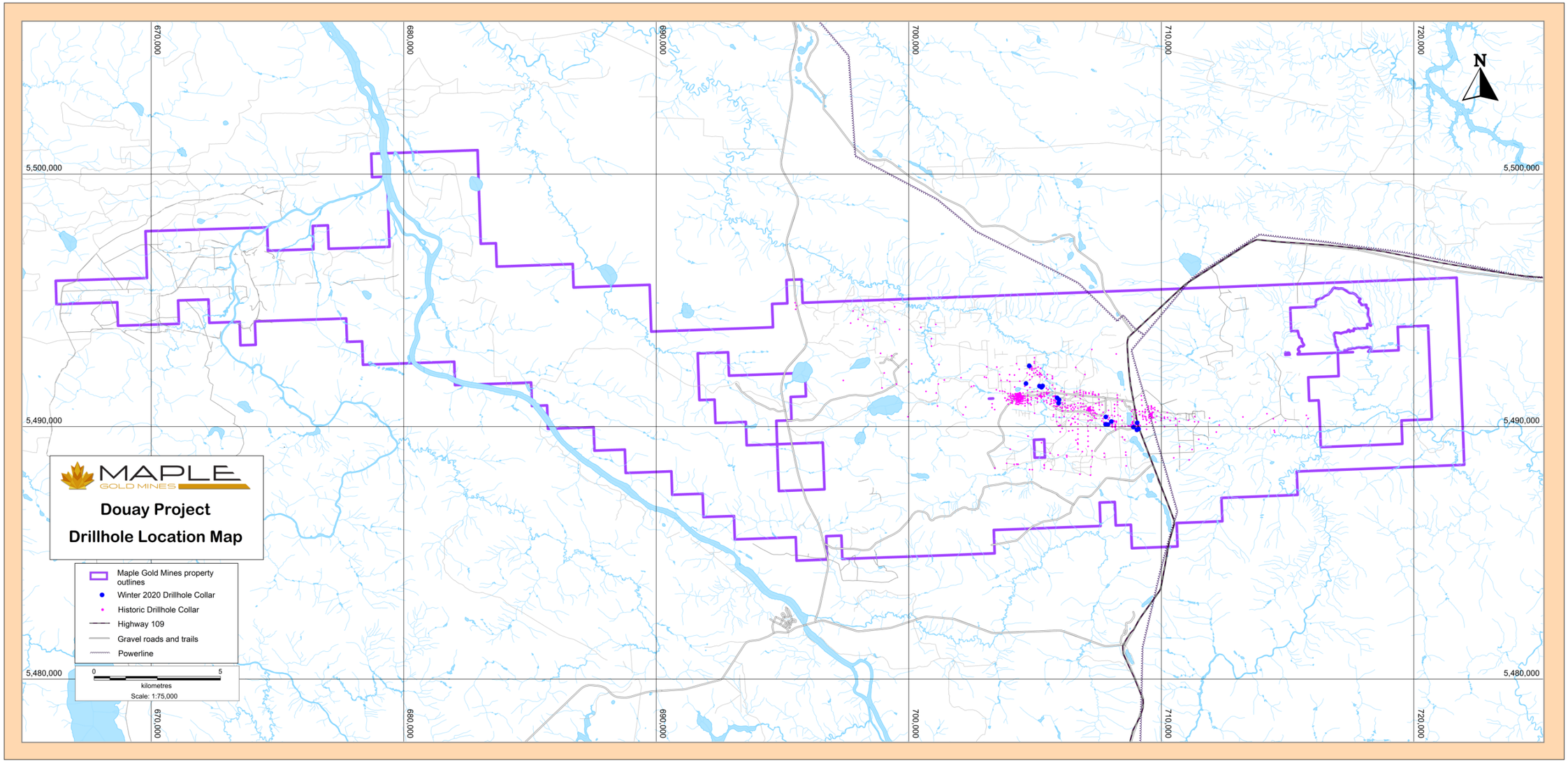

Figure 6. General drillhole collar location map

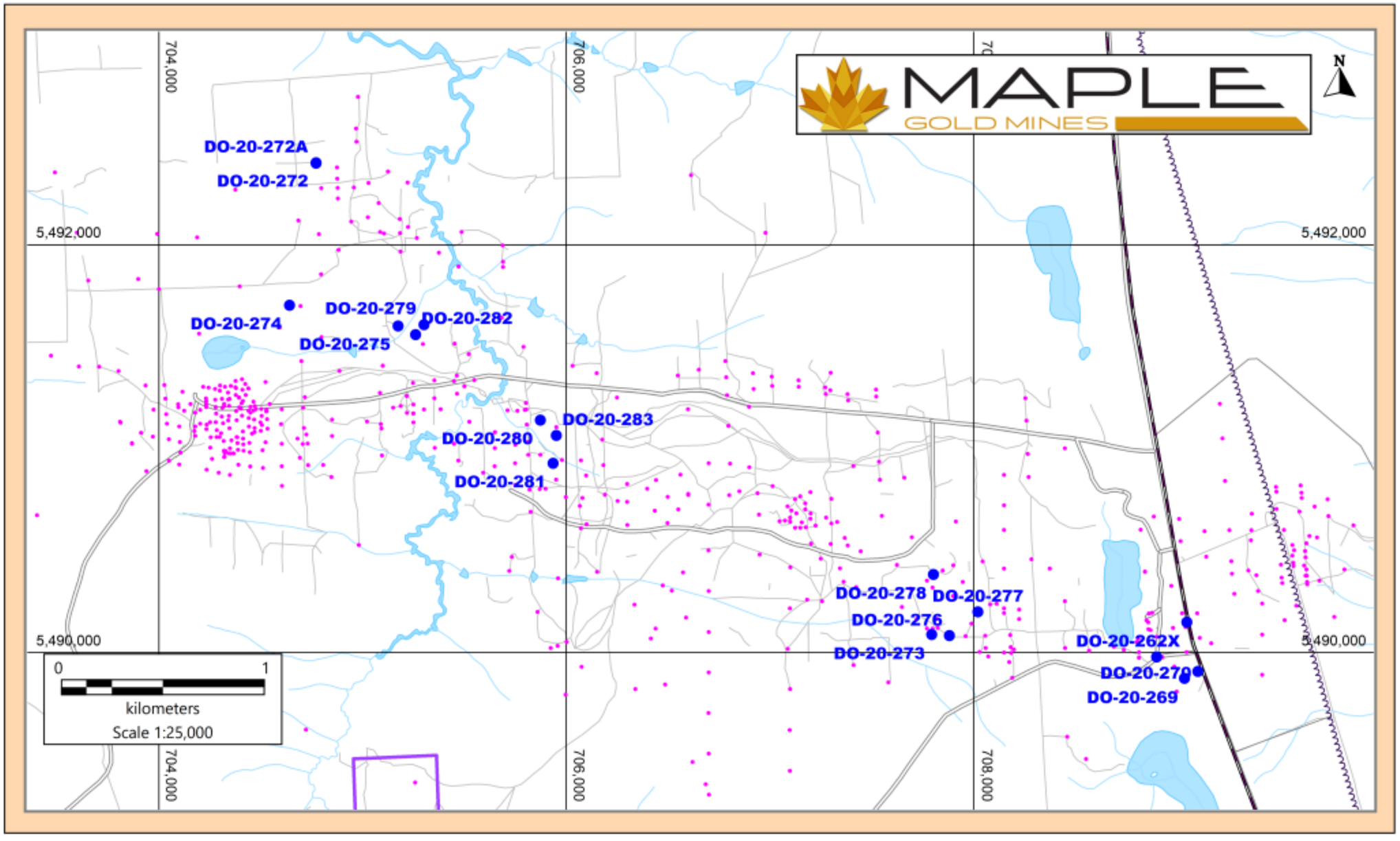

Figure 7. Detailed drillhole collar location map (same legend as in Figure 6)

Upon receiving assay results, significant gold intersections were reviewed in detail with the help of X-ray fluorescence (XRF) analysis. As a result, some lithological units were re-interpreted and the current interpretation may differ from that in the original logs.

3.3.1 NIKA ZONE

Four holes totaling 931.1 m were drilled on Nika in 2020. The primary objective for drilling in this area was to continue extending the new mineralization discovered in 2018 in hole DO-18-218, which intersected multiple narrow and broad intervals of low to high gold grade, including an exceptional interval, which assayed 1.77 g/t Au over 50 m. All holes were drilled in a northerly direction. The Nika area, with new resources added in the 2019 resource estimation update (RPA 2019), remains relatively sparsely drilled with significant remaining exploration potential.

Unfortunately, due to ground conditions and to the untimely work stoppage related to COVID-19, only two of the four holes drilled in this area achieved their planned depth.

Drillhole **DO-20-274** (AZ 360°/DIP -55°, length 175.9m, section 704600E) was planned to test the western extremities of the Nika zone, which are relatively underexplored. It was specifically aiming to test a zone at the bottom of a near-by historical hole 4140-96-08, which returned 0.25 g/t Au over 24m and ended in mineralization. Due to technical difficulties, DO-20-274 did not reach the target depth and was aborted at a depth of 175.9 meters in porphyritic syenite/monzonite. Although there were several intervals with up to 5-10% pyrite, none of them had significant gold values. The only two narrow low-grade intercepts were associated with strong fracturing and fracture-filling carbonate, silica and minor fluorite.

Drillhole **DO-20-275** (AZ 9°/DIP -50°, length 347.2m, section 705200E) was collared about 100 meters to the north of DO-18-218 and was aiming to test the potential up-dip projection of mineralization intersected by the latter in 2018. DO-20-275 intersected a highly altered and deformed heterogeneous package of porphyritic syenitic rocks and basalts with variable sulphide mineralization, which ranged from a few percent up to 10% of fine disseminated and fine-grained fracture-controlled pyrite. The rocks were extensively overprinted by hematite, carbonate and potassic alteration, frequently faulted, sheared, fractured, with zones of crackle brecciation. Mixed lithologies were further complicated by carbonatite injections and veining. The drillhole ended in a strongly sericitized and sheared package consisting of felsic tuffs and sedimentary rocks of the Taibi group. Multiple narrow and broad gold intercepts, mostly below 1 g/t Au, were encountered through the entire hole starting from 59m up to 329m downhole. Three meter-long samples assayed between 1.16 and 2.55 g/t Au and one notable sample returned 5.3 g/t Au.

Drillhole **DO-20-279** (AZ 1.9°/DIP -47.0°, length 285.0m, section 705300E) was an approximate 150-meter step-out collared north-east from DO-18-218. Like the discovery hole and DO-20-275, hole DO-20-279 went through a heterogeneous mix of basalt and porphyritic intervals of intermediate to felsic composition (syenite to monzonite, possibly granodiorite) with occasional injections of calcite-dominant carbonatites. The rocks are extensively overprinted by hematite, carbonate and potassic alteration, frequently faulted, sheared, fractured, with zones of crackle brecciation. The lower portion of the hole apparently intersected volcaniclastic and possibly sedimentary rocks of the Taibi group, similarly altered

and deformed. The upper 12 meters, from 50 to 62m downhole, encountered multiple narrow, 1-2 meter long, intercepts grading 0.1-0.6 g/t Au. This interval was followed by a broader zone, from 64 to 90m, with gold grades distributed in more continuous pattern. Most of the grades were below 1 g/t Au with an exception of two metric intervals that assayed 1.49 and 2.65 g/t Au. The zone averaged 0.50 g/t Au over 26 meters. The rest of the hole, from 91 to 275m downhole, yielded numerous additional narrow intercepts ranging from 1 to 5m in length and mostly grading less than 1 g/t Au. Three intervals returned 1.14 to 1.38 g/t Au.

Drillhole **DO-20-282** (AZ 360°/DIP -57°, length 123m, section 705300E) was collared about 85 meters to the north-east of DO-18-218. Initially planned to about 400m, the hole had to be abandoned at only 123m as a result of the COVID-19 related shutdown. Similar to the neighbouring holes on Nika, DO-20-282 intersected mixed lithologies dominated by porphyritic syenite to monzonite with lesser basalt, all strongly fractured and substantially altered by carbonate, sericite, hematite, and potassic alteration (biotite and K-feldspar). Mineralization started from top of bedrock and continued to the bottom of the hole; its distribution patterns were also comparable to the near-by Nika holes. There were multiple scattered, narrow, low-grade zones, typically 1 to 4 m in length and grading less than 1 g/t Au. One interval gave 1.4 g/t Au over 2 meters. The hole ended in mineralization with the final 5 meters averaging 0.45 g/t Au. Maple Gold plans to extend DO-20-282 to the originally planned depth during the next drill program.

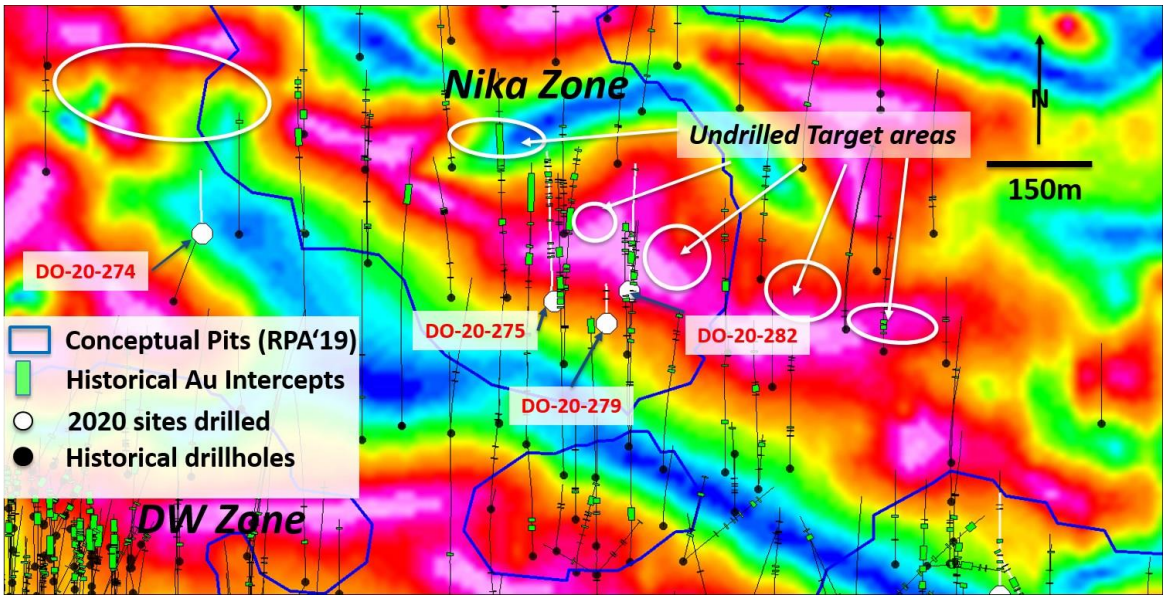

Figure 8. Drill plan for Nika Zone on total field tilt aeromagnetic base. Note close association between magnetic units and gold mineralization, and gaps in drilling along this unit to the ESE and also to W as shown with the white ellipses. (Source: MGM website, press release of June 4, 2020).

Table 5. Gold intercepts on Nika Zone

Hole_ID	Easting*	Northing*	Elevation	Hole Length	Azimuth	Dip	From	To	Sample Length	Gold value, g/t
DO-20-274	704642.8	5491702.6	288.0	175.9	360	-55	**94.0**	**95.0**	**1.0**	**0.29**
DO-20-274							**124.0**	**126.0**	**2.0**	**0.18**
DO-20-275	705175.5	5491601.5	283.4	347.2	9.0	-50	**59.0**	**61.0**	**2.0**	**0.18**
DO-20-275							**76.0**	**77.0**	**1.0**	**0.32**
DO-20-275							**88.0**	**91.0**	**3.0**	**0.51**
DO-20-275							**98.0**	**100.0**	**2.0**	**0.61**
DO-20-275							**103.0**	**104.0**	**1.0**	**0.20**
DO-20-275							**110.0**	**111.0**	**1.0**	**2.55**
DO-20-275							**114.5**	**115.5**	**1.0**	**0.16**
DO-20-275							**122.0**	**125.0**	**3.0**	**0.68**
including							*124.0*	*125.0*	*1.0*	*1.26*
DO-20-275							**169.0**	**172.0**	**3.0**	**0.17**
DO-20-275							**179.0**	**182.0**	**3.0**	**1.96**
including							*180.0*	*181.0*	*1.0*	*5.30*
DO-20-275							**213.0**	**217.0**	**4.0**	**0.32**
DO-20-275							**221.0**	**226.0**	**5.0**	**0.28**
DO-20-275							**236.0**	**255.0**	**19.0**	**0.27**
including							*236.0*	*240.0*	*4.0*	*0.75*
including							*238.0*	*239.0*	*1.0*	*1.16*
DO-20-275							**263.0**	**265.0**	**2.0**	**0.36**
DO-20-275							**272.0**	**278.0**	**6.0**	**0.40**
DO-20-275							**280.0**	**282.0**	**2.0**	**0.41**
DO-20-275							**286.0**	**299.0**	**13.0**	**0.54**
DO-20-275							**312.0**	**314.0**	**2.0**	**0.34**
DO-20-275							**321.0**	**329.0**	**8.0**	**0.34**
DO-20-279	705302.5	5491607.9	283.5	285.0	1.9	-47	**50.0**	**138.0**	**88.0**	**0.30**
including							*64.0*	*90.0*	*26.0*	*0.50*
including							*76.0*	*79.0*	*3.0*	*0.95*
including							*78.0*	*79.0*	*1.0*	*2.65*
including							*110.0*	*113.0*	*2.0*	*1.03*
including							*128.0*	*129.0*	*1.0*	*1.38*
including							*135.0*	*136.0*	*1.0*	*1.14*
DO-20-279							**154.0**	**155.0**	**1.0**	**0.26**
DO-20-279							**168.0**	**171.0**	**3.0**	**0.28**
DO-20-279							**176.0**	**178.0**	**2.0**	**0.19**
DO-20-279							**181.0**	**183.0**	**2.0**	**0.20**
DO-20-279							**192.0**	**195.0**	**3.0**	**0.20**
DO-20-279							**210.0**	**212.0**	**2.0**	**0.43**
DO-20-279							**245.0**	**246.0**	**1.0**	**0.41**
DO-20-279							**252.0**	**253.0**	**1.0**	**0.44**
DO-20-279							**255.0**	**256.0**	**1.0**	**0.25**

Hole_ID	Easting*	Northing*	Elevation	Hole Length	Azimuth	Dip	From	To	Sample Length	Gold value, g/t
DO-20-279							**261.0**	**262.0**	**1.0**	**0.43**
DO-20-279							**271.0**	**275.0**	**4.0**	**0.33**
including							*273.0*	*275.0*	*2.0*	*0.49*
DO-20-282	705262.0	5491558.8	283.4	123.0	360	-57	**48.0**	**49.0**	**1.0**	**0.45**
DO-20-282							**51.0**	**52.0**	**1.0**	**0.36**
DO-20-282							**76.0**	**77.0**	**1.0**	**0.43**
DO-20-282							**79.0**	**80.0**	**1.0**	**0.81**
DO-20-282							**82.0**	**84.0**	**2.0**	**0.26**
DO-20-282							**97.0**	**98.0**	**1.0**	**0.36**
DO-20-282							**99.0**	**103.0**	**4.0**	**0.33**
DO-20-282							**104.0**	**106.0**	**2.0**	**1.40**
DO-20-282							**118.0**	**123.0**	**5.0**	**0.45**

*NAD83 / UTM zone 17N; the collars were surveyed in 2020 by Maple Gold personnel by using Trimble GPS surveying equipment

Note: Azimuth and dip are in degrees, length and elevation are in meters

Figure 9. Photos of core from drillholes DO-20-275, DO-20-279 and DO-20-282 at Nika Zone, NQ-size (47.6 mm diameter), half-sawn.

a) **DO-20-275** – Fine-grained pyrite aggregates in fractured, carbonatized mixed basalt and syenite to monzonite; 180-181m @ 5.30 g/t Au;
b) **DO-20-279** – Fine-grained pyrite masses in fenitized basalt with syenite and carbonatite injections; 78-79m @ 2.65 g/t Au;
c) **DO-20-282** – Fine disseminated grains and fine to medium-grained pyrite aggregates in carbonatized and biotitized (fenitized) basalt with syenite-monzonite injections; 119-120m @ 0.45 g/t Au.

3.3.2 NORTHWEST ZONE

A single drill-hole, DO-20-272, was planned at the NW zone near the northwest edge of the current resource conceptual pit as defined by the RPA 2019 NI 43-101 report. One of the historical holes in this sparsely-drilled sector, 4140-94-04, intersected significant gold mineralization near surface, starting from only 41m downhole (3.15 g/t Au over 8.9m).

Drillhole **DO-20-272** (AZ 360°/DIP -55.0°, length 75.8m, section 704800E) was collared 100m to the west of the historical hole and was drilled in the northern direction. Due to excessive deviation of the dip, the hole was stopped at 75.8m and subsequently re-drilled at a steeper dip. The hole intersected a few narrow mineralized intervals including 1m of 6.45 g/t Au and a broad, 21m-long, zone with grades ranging from 0.11 to 1.12 g/t Au over 0.5 to 1 meter intervals.

Drillhole **DO-20-272A** (AZ 360°/DIP -60.0°, length 408.0m, section 704800E) was re-drilled from the same set-up and was successfully completed after reaching the target depth. It also encountered two mineralized zones at the top of bedrock picked up by DO-20-272. One zone returned 4.16 g/t Au over 3.4m starting from 39.6m downhole (34m vertical depth), which included 4.07 g/t Au over 0.5m and 7.68 g/t Au over 1.7m. A second zone started from 50m downhole (43m vertical depth) and averaged 1.15 g/t Au over 20m starting from 50m downhole, including 8m of 1.34 g/t Au. Gold grades ranged from 0.20 to

2.26 g/t Au over meter-long intervals and three intervals returned exceptional grades above 3 g/t Au. The bottom portion of the hole was mostly non-mineralized.

Both holes are located entirely within the Taibi domain sedimentary succession, near a major lithotectonic boundary with significantly younger sedimentary rocks to the north in fault contact with older basaltic rocks to the south. They intersected a continuous, strongly sheared, sericite-altered package of volcaniclastic and sedimentary rocks with subordinate felsic to intermediate flows. Gold mineralization associated with quartz-sericite-pyrite alteration. Although the NW Zone is relatively distal, the influence of the Douay alkaline intrusive-hydrothermal system is still noted by frequent carbonatite injections, relative abundance of fluorite (see Figure 11 below) and commonly elevated Rare Earth Element (REE) values.

Table 6. Gold intercepts on Northwest Zone

Hole_ID	Easting*	Northing*	Elevation	Hole Length	Azimuth	Dip	From	To	Sample Length	Gold value, g/t
DO-20-272	704773.1	5492401.8	289.6	75.8	360	-55	**37.0**	**38.0**	**1.0**	**0.28**
DO-20-272							**39.0**	**40.0**	**1.0**	**6.45**
DO-20-272							**47.0**	**48.0**	**1.0**	**0.32**
DO-20-272							**51.0**	**72.0**	**21.0**	**0.42**
including							*60.8*	*66.0*	*5.2*	*0.85*
including							*64.0*	*66.0*	*2.0*	*1.09*
DO-20-272A	704773.1	5492400.5	289.7	408.0	360	-60	**39.6**	**43.0**	**3.4**	**4.16**
including							*40.2*	*41.9*	*1.7*	*7.68*
DO-20-272A							**50.0**	**73.0**	**23.0**	**1.04**
including							*51.0*	*54.0*	*3.0*	*1.96*
including							*62.0*	*63.0*	*1.0*	*3.09*
including							*62.0*	*70.0*	*8.0*	*1.34*
DO-20-272A							**76.0**	**77.0**	**1.0**	**3.10**
DO-20-272A							**94.0**	**95.0**	**1.0**	**1.75**

*NAD83 / UTM zone 17N; the collars were surveyed in 2020 by Maple Gold personnel by using Trimble GPS surveying equipment

Note: Azimuth and dip are in degrees, length and elevation are in meters

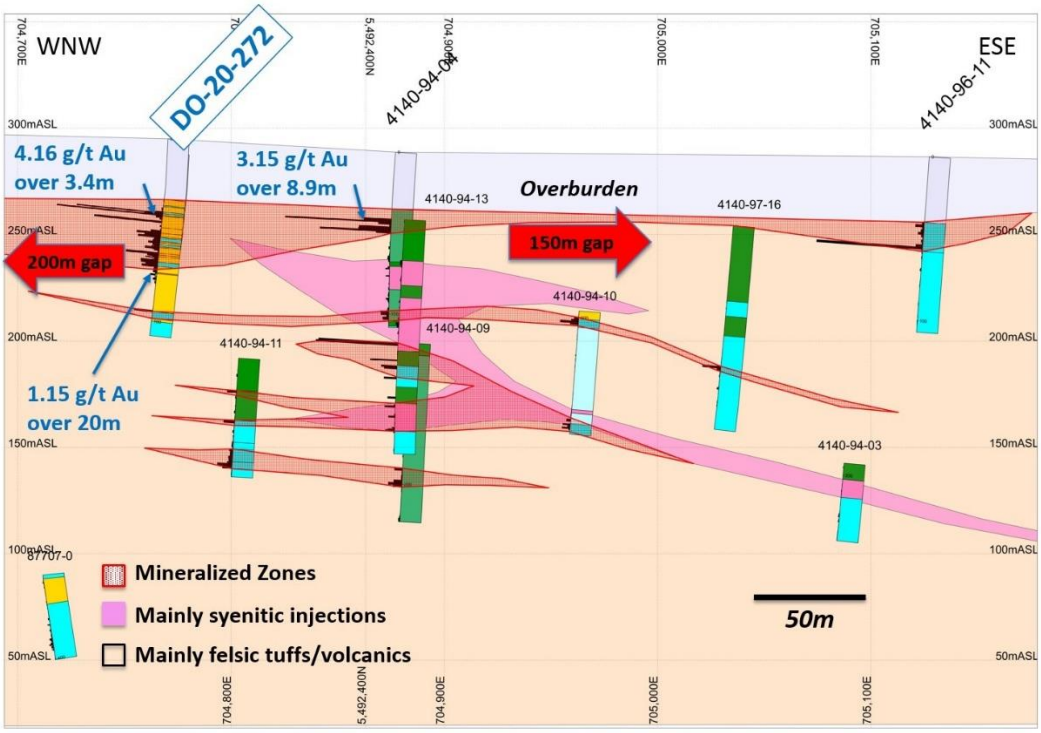

Figure 10. Northwest Zone, long section @095°, looking NNE. Hole DO-20-272 intersected near-surface gold zone. Significant drilling gaps still exist in this area and additional infill drilling is warranted, with the aim of defining additional gold mineralization at shallow depths. (Source: MGM website, press release of May 6, 2020).

Figure 11. Photo of core from drillhole DO-20-272A at Northwest Zone; half-sawn NQ drill core (47.6 mm); 41.3-41.9m @ 13.25 g/t Au. Note yellow sericite defining foliation, stronger Fe-carbonate (pale beige-orange color) and relatively abundant fine disseminated and stringer pyrite, as well as purplish grey

fluorite-carbonate injection in upper right part of photograph. (Source: MGM website, press release of May 6, 2020).

3.3.3 PORPHYRY ZONE

Seven drillholes were completed within the existing resource area at the Porphyry Zone for a total of 2,088 meters. Three holes were drilled on its western flank, for a total of 921m, two on its eastern side, for a total of 738m, and two holes were drilled on the southeastern portion of the Porphyry zone (Zone 10) totalling 429m.

Porphyry Zone (West)

Three drill targets were selected on the western portion of the Porphyry Zone in the area where higher than deposit average grades are present and historical drilling is relatively sparse. All three were planned on the same section 705900E (Figure 12.) at a northerly azimuth and similar inclination angles. They were testing a drilling gap near the northern limit of the current (RPA 2019) conceptual pits.

Drillhole **DO-20-280** (AZ 360°/DIP -55.0°, length 327m, section 705900E), the most northern of the three holes, cut multiple zones starting from the top of bedrock. Intercepts ranged from 0.10 to 1.0 g/t Au with eight intercepts above 1.0 g/t Au (from 1.02 to 2.63 g/t Au). Most of mineralized intervals were rather narrow, 1 to 4 meters long and occurred in a rather isolated pattern.

The upper half of DO-20-280 is dominantly composed of various textural varieties of syenite to monzonite, strongly deformed (fractured and sheared), overprinted by various intensity hematite, carbonate and potassic alteration, and frequently injected by carbonatite. Some intervals are bleached due to silicification and albitization.

The bottom portion of the hole is composed a heterogeneous package – possibly belonging to the Taibi group - which contains numerous polymictic clasts of syenite, bleached basalt, quartz and possibly chert embedded in fine to medium-grained groundmass of variable composition. There are also decimetric to metric intervals of medium-grained syenite and fine-grained, patchy fenitized basalt, which in fact could be large fragmented blocks. The rock package is variably altered by carbonate, red and specular hematite, K-feldspar (fenitization) and silicification.

The pyrite concentrations are quite variable over the length of the interval ranging from traces to 10%. The highest amounts of pyrite are typically found in microbrecciated, silicified and carbonatized zones and often show a good correlation with gold grades.

Drillhole **DO-20-281** (AZ 359.1°/DIP -57.5°, length 294m, section 705900E), the southernmost of the three Porphyry West planned holes, cut mineralization over 164 meters starting from 108m downhole (about 97m vertical depth).

The entire hole occurs within highly deformed and altered lithologies. A heterogeneous mix of variable proportions of basalt and syenite dominated the upper parts of the hole and the lower portion was mostly in syenite to monzonite followed by aplite.

A zone of continuous grades ranging from 0.10 to 4.35 g/t Au (over one meter long intervals) starts at 104m and ends at 271m. Gold grades occur exclusively within the main porphyry body and extend for several meters into the aplitic rock in its footwall. There is no gold in the sheared, fenitized mixed unit in the hanging wall. The upper limit of gold mineralization is a few meters past the upper contact of the porphyry and coincides with the beginning of crackle breccia filled by fluorite, albite, and silica.

Seventeen intervals grade from 2.0 to 4.35 g/t Au. There is a good correlation between the higher grades and the intensity of crackle brecciation with silica, fluorite, and albite infilling. Chalcopyrite also appears as a useful indicator for higher gold values. On the contrary, the presence of pale greenish beige interstitial sericite (possibly with minor chlorite) correlates with lower or even absent gold values. Overall, the zone extends over 167 meters along the core length with an average grade of 0.84 g/t Au. Two isolated intercepts of 0.14 g/t Au occur after the zone at the bottom of the hole within a fine-grained, aplitic rock.

DO-20-281 was collared about 130m NE of two historical drillholes (DO-11-33 and DO-12-97), which were collared about 30m apart and drilled in 2011 and 2012. Maple Gold's new drillhole supports the up-dip continuity of mineralization from these historical holes, which returned 1.14 g/t Au over 62.0m, including 3.0 g/t Au over 11.5m, and 1.17 g/t over 163.5m, including 8.96 g/t Au over 9.0m, respectively. DO-20-281 also tested and supports down-dip continuity of mineralization encountered in hole 70586, a historical hole found within indicated resources (RPA, 2019). That hole cut 0.98 g/t au over 13.6m from 78.3m downhole, followed by 0.87 g/t Au over 93.6m from 107.6m downhole, including 2.04 g/t Au over 14.2m.

Drillhole **DO-20-283** (AZ 331.9°/DIP -55.0°, length 300m, section 705900E) was designed to test a 140m drilling gap near the northern limit of the current (RPA 2019) conceptual pits. Initially planned in northerly direction, the hole was misaligned because of a faulty instrument and, as a result, it was drilled in a north-northwest direction. DO-20-283 was aiming to test the near surface up-dip of DO-19-256. The upper portion of DO-19-256 intersected multiple mineralized intervals with gold grades ranging from 0.1 to 5.09 g/t Au (over 1 m lengths) with the best intersection of 1.57 g/t Au over 16 m (from 77 to 93m downhole length).

Similarly to DO-20-281, the upper portion of DO-20-283 intersected a strongly deformed interval of interleaving basalt and syenite. Both lithologies exhibited strong patchy to pervasive K-alteration (fenitization), red and specular hematitization, and patchy and fracture-filling carbonatization. A mixed basalt-syenite interval was followed by medium to coarse-grained, bleached syenite or possibly monzonite, relatively homogeneous, with localized carbonatites. Bleaching of the matrix was caused by albitization (Na-metasomatism) accompanied by silicification and carbonatization.

Assays returned multiple gold intersects with grades ranging from 0.10 to 5.25 g/t Au. The length of mineralized intervals varied from one meter to continuous zones over 20 meters. The best intersection averaged 1.91 g/t Au over 17m from 189 to 207m downhole (about 155m vertical depth). The bottom of the drillhole had a noticeable increase in fracturing and mineralization (1-4% pyrite), a higher number of dissolution cavities with fluorite crystals and stronger patchy grey silicification along fractures; this zone returned 1.06 g/t Au over 7m.

DO-20-283 was terminated early due to the COVID-19 shutdown in Quebec; deepening this drill-hole is warranted.

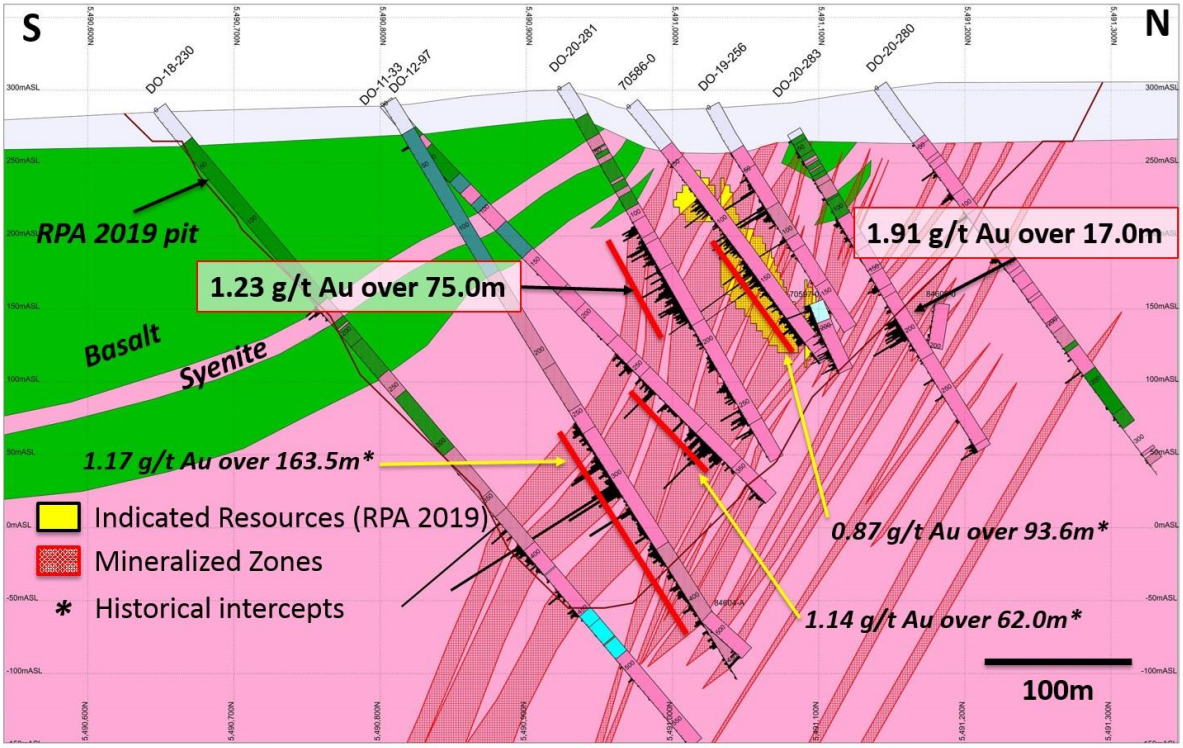

Figure 12. Section 705900E looking west (with ±40m corridor either side) showing 2020 drillholes and historical holes in the western part of the Porphyry Zone and gold intercepts. (Source: MGM website, press release of June 10, 2020).

Table 7. Gold intercepts on Porphyry Zone (West)

Hole_ID	Easting*	Northing*	Elevation	Hole Length	Azimuth	Dip	From	To	Sample Length	Gold value, g/t
DO-20-280	705875.2	5491139.6	286.4	327.0	360	-55	**46.0**	**47.0**	**1.0**	**0.31**
DO-20-280							**68.0**	**73.0**	**5.0**	**0.70**
including							*69.0*	*70.0*	*1.0*	*2.15*
DO-20-280							**85.0**	**92.0**	**7.0**	**0.71**
including							*89.0*	*91.0*	*2.0*	*1.71*
DO-20-280							**104.0**	**108.0**	**4.0**	**0.69**
including							*106.5*	*108.0*	*1.5*	*1.61*
DO-20-280							**139.0**	**148.0**	**9.0**	**0.53**
including							*142.0*	*144.0*	*2.0*	*1.12*
DO-20-280							**239.0**	**240.0**	**1.0**	**2.63**
DO-20-280							**269.0**	**271.0**	**2.0**	**0.20**
DO-20-280							**278.0**	**280.0**	**2.0**	**0.26**

Hole_ID	Easting*	Northing*	Elevation	Hole Length	Azimuth	Dip	From	To	Sample Length	Gold value, g/t
DO-20-281	705874.6	5491139.1	287.5	294.0	359.1	-57.5	**107.0**	**271.0**	**164.0**	**0.85**
DO-20-283	705953.0	5491063.5	286.7	300.0	331.9	-55	**42.0**	**43.0**	**1.0**	**0.41**
DO-20-283							**50.0**	**55.5**	**5.5**	**0.22**
DO-20-283							**58.5**	**62.0**	**3.5**	**0.21**
DO-20-283							**74.0**	**75.0**	**1.0**	**0.20**
DO-20-283							**76.5**	**77.5**	**1.0**	**0.22**
DO-20-283							**79.0**	**84.0**	**5.0**	**0.15**
DO-20-283							**89.0**	**90.85**	**1.85**	**0.41**
DO-20-283							**100.0**	**101.0**	**1.0**	**0.23**
DO-20-283							**107.0**	**129.0**	**22.0**	**0.35**
DO-20-283							**133.5**	**137.0**	**3.5**	**0.16**
DO-20-283							**155.0**	**159.0**	**4.0**	**0.29**
DO-20-283							**161.0**	**166.0**	**5.0**	**0.89**
including							*163.0*	*164.0*	*1.0*	*1.53*
DO-20-283							**168.0**	**169.0**	**1.0**	**0.38**
DO-20-283							**178.0**	**179.0**	**1.0**	**0.55**
DO-20-283							**181.0**	**183.0**	**2.0**	**0.64**
DO-20-283							**188.0**	**215.0**	**27.0**	**1.29**
including							*189.0*	*206.0*	*17.0*	*1.91*
including							*189.0*	*193.0*	*4.0*	*1.67*
including							*195.0*	*201.0*	*6.0*	*2.28*
including							*202.0*	*205.0*	*3.0*	*3.17*
including							*203.0*	*204.0*	*1.0*	*5.25*
DO-20-283							**209.0**	**215.0**	**6.0**	**0.31**
DO-20-283							**219.0**	**221.0**	**2.0**	**0.21**
DO-20-283							**223.0**	**224.0**	**1.0**	**0.22**
DO-20-283							**225.0**	**226.0**	**1.0**	**0.28**
DO-20-283							**239.0**	**240.0**	**1.0**	**1.46**
DO-20-283							**253.0**	**254.0**	**1.0**	**1.27**
DO-20-283							**273.0**	**275.0**	**2.0**	**0.38**
DO-20-283							**293.0**	**300.0**	**7.0**	**1.06**
including							*293.0*	*294.0*	*1.0*	*1.27*
including							*298.0*	*299.0*	*1.0*	*2.56*

*NAD83 / UTM zone 17N; the majority of collars were surveyed in 2020 by Maple Gold personnel by using Trimble GPS surveying equipment

Note: Azimuth and dip are in degrees, length and elevation are in meters

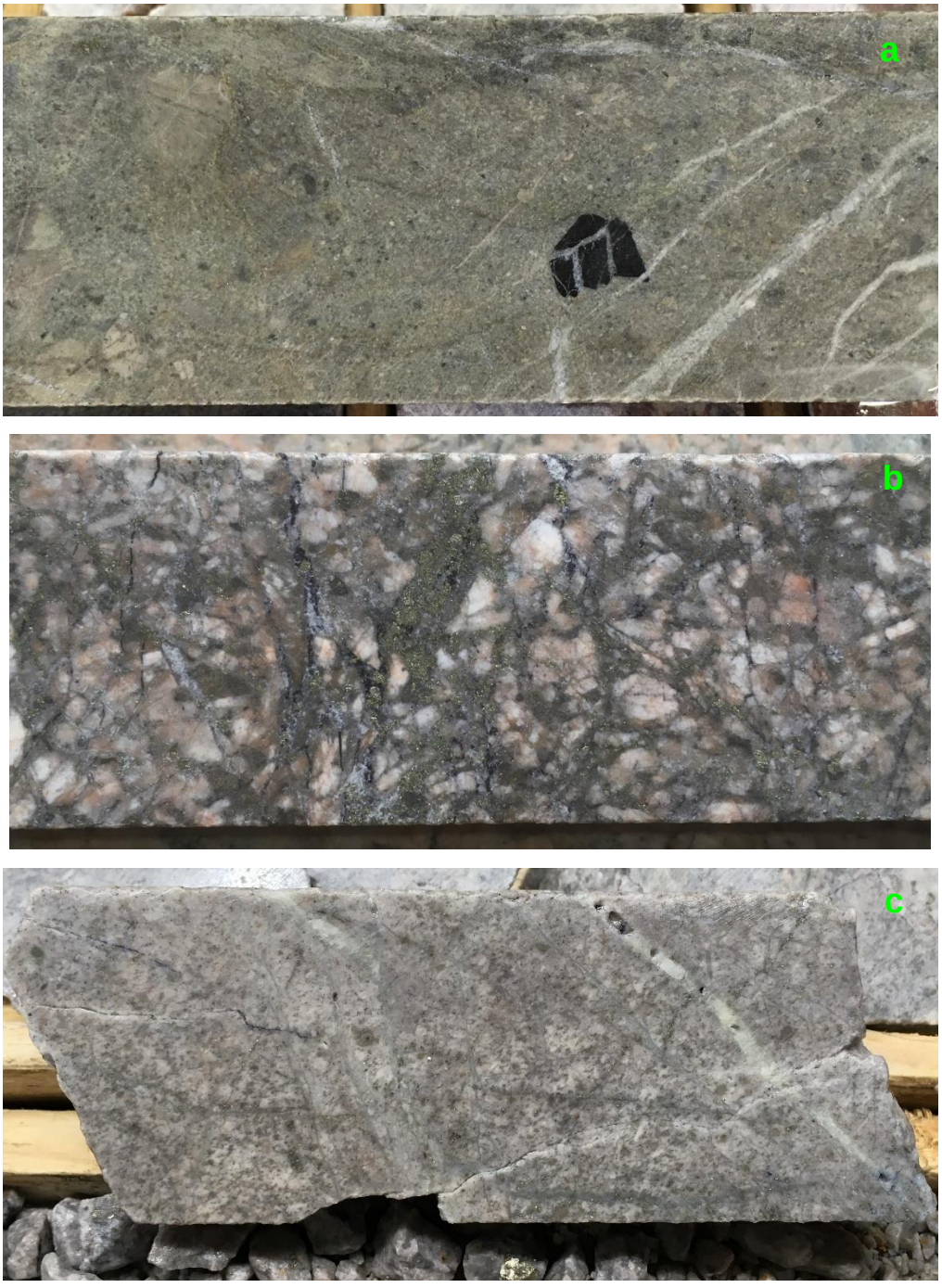

Figure 13. Photos of core from drillholes DO-20-280, DO-20-281 and DO-20-283, at Porphyry West Zone; NQ-size (47.6 mm diameter), half-sawn.

a) **DO-20-280,** 299m – The presence of polymictic sandstone-conglomerate at the bottom of the hole indicates that it went across the lithotectonic boundary between the Taibi and Cartwright Hills domains; no associated gold grades;

b) **DO-20-281** – Fracture-controlled pyrite mineralization associated with quartz-calcite-fluorite veinlets and crackle breccias in bleached porphyritic syenite (monzonite); 159-160m @ 2.78 g/t Au;
c) **DO-20-283** – Fine disseminated and fracture-controlled pyrite mineralization in bleached syenite (monzonite); 203-204m @ 5.25 g/t Au.

10 Zone and Porphyry Zone (East)

The four drillholes planned on the eastern edge of the Porphyry Zone which includes zone 10 and Porphyry (East) were designed to test the continuity of known mineralized zones intersected by DO-18-247 drilled in 2018 and by some historical holes, and to extend them near-surface and at moderate depths.

Drillhole **DO-20-273** (AZ 0.6°/DIP -52.3°, length 531m, section 707800E) was collared some 80 meters south-west from DO-18-247 aiming to verify the down-plunge of the latter, which cut several mineralized zones, including 21m at 3.49 g/t Au. DO-20-273 went dominantly through mafic volcanic rocks (basalt, magnesian basalt), often deformed, variably altered and injected by 5 to 25% dykelets and dykes of syenitic to felsic composition and minor carbonatites and lamprophyre. The main goal of testing the continuity of gold intercepts in DO-18-247 has been largely achieved by intersecting four mineralized zones of comparable lengths ranging from 8 to 15 meters; however, the grades were significantly lower. Most intercepts ranged from 0.10 to 1.0 g/t Au and seven intercepts were above 1.0 g/t Au to a maximum of 1.87 g/t Au over one meter.

Drillhole **DO-20-276** (AZ 360°/DIP -53.5°, length 279m, section 707900E) was designed to test the western extension of 10 Zone down a SE plunge to the south-east of drillholes DO-11-64, DO-11-65 and DO-11-66. Each of these historical holes intersected mineralized zones about 65-70 meters in core length with grades ranging from 0.1 to 3 g/t Au (6.94 g/t Au max). Lithological assemblages intersected in DO-20-276 were dominantly mafic flows with several crosscutting syenite dykes and dykelets, two lamprophyre dykes and occasional carbonatite veins. At the bottom of the hole, basalt is intercalated with siliceous sedimentary rocks. The hole has a few scattered low-grade intercepts ranging from 0.10 to 0.32 g/t Au within a 21-meter interval from 198 to 219m; this interval includes a 3.3-meter long mineralized brittle-ductile zone in mixed basalt-syenite, which averaged 0.26 g/t Au.

Drillhole **DO-20-277** (AZ 92°/DIP -63.0°, length 150m, section 708000E) was meant to test the near surface area at the 10 Zone at a different azimuth. It intersected a volcanic package dominated by Mg-rich basalt, mostly massive, with minor localized variolitic textures. Two intervals were distinctly serpentinized and had higher amounts of Mg, Ni and Cr than the main lithology. Some contacts were sharp, others seemed rather gradational. These intervals can be interpreted as komatiitic basalt or fine-grained ultramafic intrusions. The volcanic sequence is mostly non-mineralized, except several patchy fenitized and carbonatized intervals, some of which contained up to 2-3% pyrite. No gold mineralization was found in this hole.

Drillhole **DO-20-278** (AZ 2.1°/DIP -50.1°, length 207m, section 707800E) was collared approximately 45m north-east from the historical hole DO-11-70 and was targeting the potential up-plunge extension of high-

grade mineralization intersected by the latter, which averaged 1.67 g/t Au over 45m from 196.5m downhole. DO-20-278 confirmed the continuity but the intersected mineralized zone was narrower and gold grades were significantly low, not exceeding 1 g/t Au except one interval of 1.37 g/t Au over 1m.

Table 8. Gold intercepts on 10 and Porphyry East Zones

Hole_ID	Easting*	Northing*	Elevation	Hole Length	Azimuth	Dip	From	To	Sample Length	Gold value, g/t
DO-20-273	707795.8	5490086.9	299.6	531.0	0.6	-52.3	**161.0**	**177.0**	**16.0**	**0.40**
including							*164.0*	*165.0*	*1.0*	*1.20*
DO-20-273							**195.0**	**211.0**	**16.0**	**0.50**
including							*195.0*	*197.0*	*2.0*	*1.54*
including							*203.0*	*204.0*	*1.0*	*1.12*
DO-20-273							**435.0**	**439.0**	**4.0**	**0.49**
DO-20-273							**442.0**	**457.7**	**15.7**	**0.58**
including							*453.0*	*457.7*	*4.7*	*1.33*
DO-20-273							**462.0**	**463.0**	**1.0**	**0.43**
DO-20-273							**469.0**	**470.0**	**1.0**	**0.40**
DO-20-273							**471.7**	**480.2**	**8.5**	**0.38**
including							*479.3*	*480.2*	*0.9*	*1.14*
DO-20-276	707882.9	5490081.3	300.6	279.0	360	-53.5	**214.0**	**215.0**	**1.0**	**0.32**
DO-20-276							**215.7**	**219.0**	**3.3**	**0.26**
DO-20-277	708022.7	5490198.2	302.0	150.0	92	-63.0				
No gold intercepts										
DO-20-278	707804.2	5490381.2	299.3	207.0	2.1	-50.1	**116.0**	**118.0**	**2.0**	**0.25**
DO-20-278							**121.0**	**123.0**	**2.0**	**0.41**
DO-20-278							**137.0**	**150.0**	**13.0**	**0.50**
including							*143.0*	*144.0*	*1.0*	*1.37*
DO-20-278							**154.0**	**156.0**	**2.0**	**0.21**

*NAD83 / UTM zone 17N; the majority of collars were surveyed in 2020 by Maple Gold personnel by using Trimble GPS surveying equipment

Note: Azimuth and dip are in degrees, length and elevation are in meters

3.3.4 531 ZONE

Drillhole **DO-20-262x** (AZ 358.2°/DIP -59.1°, length 152.8m (from 432.2 to 585m), sections 709000E and 709100E) was planned as an extension of the hole DO-19-262 drilled in 2019, which discovered two broad mineralized zones of 28m averaging 2.6 g/t Au and of 51m averaging 2.8 g/t Au, and stopped just a few meters below the high-grade zone.

The extension intersected two narrow mineralized intervals at 490-493m and 505-508m with gold grades ranging from 0.18 to 4.53 g/t Au, and a 3.5m long zone at 527-530.5m that averaged 5.96 g/t Au and included a high-grade interval averaging 11.36 g/t Au over 1.7m. Similarly to the parent hole DO-19-262, gold mineralization was hosted by sheared, patchy fenitized and carbonatized basalt to magnesium-rich basalt. Fenitization, alkaline metasomatism accompanying carbonatite injections, produced alteration assemblages, which included hematite, biotite, calcite, chlorite, Fe-carbonate, magnetite, and K-feldspar. Gold grades associated with significant amounts of pyrite (up to 10%) mainly present in the form of fine to medium-size disseminated grains and lesser stringers.

Drillhole **DO-20-269** (AZ 352°/DIP -70°, length 717.0m, section 709000E) was collared approximately 60m south from the collar of DO-19-262 and was intended to test possible down-dip extensions of gold mineralization in this rather underexplored area. The hole did not flatten as much as anticipated and therefore ended up approximately 150 meters away from the known zone once target depth was reached. DO-20-269 still cut gold mineralization near the end of hole, below a vertical depth of 600m. It intersected three mineralized intervals, all of which were in sheared (brittle-ductile), fenitized and carbonatized mafic to ultramafic volcanic rocks with pyrite ranging from 1 to up to 15%. One interval, at 641-648.3m, in mixed Mg-basalt and siliceous sedimentary or/and felsic volcanic lithologies, had rather continuous gold grades, which averaged 0.21 g/t Au over 7.3m. The second interval, at 656-666m, had several isolated gold intercepts ranging from 0.22 to 1.30 g/t Au (over 1m long intervals). The third intersection, at 694-703m, returned continuous grades ranging from 0.13 to 2.69 g/t Au (over 1m long intervals) and averaging 0.95 g/t Au over 9.0 meters. This zone included the best intercept in the hole grading 2.41 g/t Au over 2.0 meters.

Two additional holes were designed to test the continuity of mineralization to the south-east of DO-19-262 (hole DO-20-270) and to explore the gap in the central portion of the 531 zone (hole DO-20-271). However, both were abandoned in thick overburden before reaching the bedrock due to continuous technical problems with an intention to drill them later with a better equipment.

Both DO-20-262x and DO-20-269 were drilled and logged using oriented core techniques. Measurements from oriented core were collected by Maple Gold geologists and processed using a handheld Reflex IQ-Logger structural logging device and software. Maintaining accurately aligned core was challenging due to frequent heavily fractured intervals; this along with limited skills to perform the task resulted in a lower level of confidence of data collected than expected.

Highlighted results for DO-20-262x and DO-20-269 are provided in Table 9.

Table 9. Gold intercepts on 531 Zone

Hole_ID	Easting*	Northing*	Elevation	Hole Length	Azimuth	Dip	From	To	Sample Length	Gold value, g/t
DO-20-262x**	709047.5	5489930.9	304.9	152.8	358.2	-59.1	**490.0**	**493.0**	**3.0**	**2.23**
including							*490.0*	*492.0*	*2.0*	*3.50*
including							*491.0*	*492.0*	*1.0*	*4.53*
DO-20-262x							**505.0**	**506.0**	**1.0**	**1.62**

Hole_ID	Easting*	Northing*	Elevation	Hole Length	Azimuth	Dip	From	To	Sample Length	Gold value, g/t
DO-20-262x							**507.0**	**508.0**	**1.0**	**0.50**
DO-20-262x							**527.0**	**530.5**	**3.5**	**5.96**
including							*528.0*	*528.7*	*1.0*	*18.58*
including							*528.0*	*529.7*	*1.7*	*11.36*
DO-20-269	709037.1	5489871.0	305.2	717.0	352.0	-70.0	**641.0**	**648.3**	**7.3**	**0.21**
including							*644.8*	*647.8*	*3.0*	*0.30*
including							*643.0*	*648.3*	*5.3*	*0.26*
DO-20-269							**656.0**	**657.0**	**1.0**	**0.22**
DO-20-269							**661.0**	**663.0**	**2.0**	**0.77**
including							*661.0*	*662.0*	*1.0*	*1.30*
DO-20-269							**665.0**	**666.0**	**1.0**	**0.84**
DO-20-269							**694.0**	**703.0**	**9.0**	**0.95**
including							*694.0*	*699.2*	*5.2*	*1.50*
including							*694.0*	*696.0*	*2.0*	*2.41*

*NAD83 / UTM zone 17N; the collars were surveyed in 2020 by Maple Gold personnel by using Trimble GPS surveying equipment
**Coordinates, azimuth and dip of the hole DO-19-262

Note: Azimuth and dip are in degrees, length and elevation are in meters

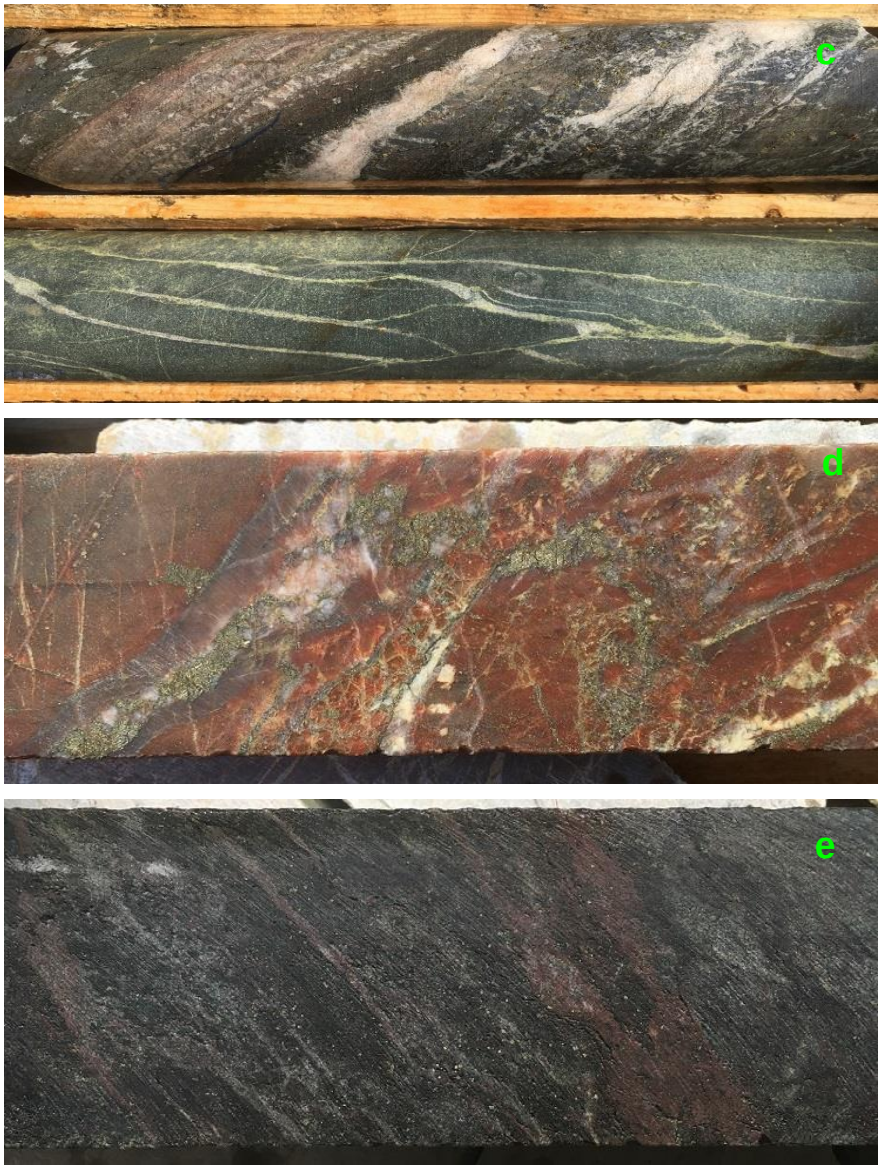

Figure 14. Photos of the core from drillholes DO-20-262x and DO-20-269 at 531 Zone, NQ-size (47.6 mm diameter), half-sawn.

a) **DO-20-262x,** 528-531.5m – Variations of alteration in basalt. The upper row: a highly altered (rusty), iron carbonatized interval within fenitized basalt mineralized by up to 15% fine disseminated pyrite and magnetite, which assayed 18.58 g/t Au (an average of two over-limit results). The middle row: pervasively calcitized and fenitized basalt with 3-5% pyrite, which returned 6.3 g/t Au over 1m. The lower row: chloritized and amphibolized ophitic basalt with calcite and epidote filling fractures and less than 1% pyrite, which returned no gold grades.
b) **DO-20-262x** – A close-up photo of mineralized fenitized basalt at 528.7-529.7m @ 6.3 g/t Au.
c) **DO-20-262x,** 505-507m – Variations of alteration in basalt. The upper row: calcitized and fenitized basalt with carbonatite injections and mineralized by 5-8% pyrite, which assayed 1.62 g/t Au over 1m. The lower

row: chloritized and amphibolized basalt with fracture-filling epidote-calcite and traces of pyrite, without gold grades.
d) **DO-20-269,** 645m – A red felsite rich in silica and potassium, mineralized by fracture-controlled, fine-grained aggregates of pyrite; 643-648.3m @ 0.26 g/t Au.
e) **DO-20-269,** 696m – Sheared, patchy fenitized high magnesium basalt or komatiitic basalt, mineralized by 1 to 5% pyrite; 694-696m @ 2.41 g/t Au.

4 DRILLHOLE AND CORE HANDLING PROTOCOLS

The protocols for monitoring the drilling process, drill data collection and data management were largely the same as in 2018-2019, with an exception of a few changes in methodology through all phases of work at Douay. All work steps, from preparation of drill sites to sending core samples to the laboratories, were conducted in accordance with the CIM Exploration Guidelines and industry best practices. The protocols document is included in Appendix 9.

4.1 COLLAR SURVEY METHODOLOGY

Prior to drilling, in the field, the geologist positioned each collar location using a handheld GPS unit (precision ±3-5m). The drill collar location was marked with a picket and a flagging tape. A foresight picket was placed to mark the planned direction of drilling. The alignment of the drill rig was done by the drillers using a Reflex TN14 GYROCOMPASS™ and checked by the Maple Gold geologist or the qualified technician.

Drilling was conducted on previously permitted sites or roads, or newly permitted sites and access trails. The access roads and pads required that the snow be compacted.

At the end of each drillhole, the geologist collected the actual UTM location of its collar using a handheld GPS unit, and then entered the coordinates into GeoticLog.

When the drillhole was completed, the casing rods were left in place. Each casing was capped by a 1.5-meter-long metal marker topped by a red metal flag with an embossed drillhole number.

The 2020 (winter) collar locations were accurately surveyed by Maple Gold personnel during summer 2020 by using Trimble GPS surveying equipment (Table 3).

4.2 DOWNHOLE SURVEY METHODOLOGY

Downhole surveys were performed during drilling using a Reflex EZ-GYRO™ downhole survey tool. Single-shot measurements with the EZ-GYRO were taken by the driller at the following intervals: first reading to be taken 6 m below the casing, then after 9 m, another 9 m, 15 m, and then every 30 m till the end of the hole. The driller recorded the readings onto paper slips that were provided to the geologist daily. The geologist entered the data in a spreadsheet and into the logging software, and the azimuth reading was converted from magnetic to true. The original paper slips were retained in the files.

4.3 DRILL CORE PROTOCOLS

Drill core was placed into 5-foot/1.5 m long, three-row wooden boxes (**coreboxes**) by the drill helper. The coreboxes were marked with the drillhole number, and the box number. Each complete corebox was covered with an inverted corebox to create a case that was sealed with a heavy-duty fiber tape. The drill crew transported these to the Douay core facility twice a day, at the end of each shift. Transportation modes included trucks, and snowmobiles with sleds.

Once opened, the coreboxes were placed on logging tables in order. The depth markers at 3-meter intervals were checked and corrected when necessary. Each box was labeled with start and end distances, as measured from the nearest distance marker. Prior to logging, the core was aligned and geotechnical data were collected. A simple geotechnical log included measurements of core recovery, rock quality (**RQD**), and a fracture count for every 3 m core run. Geological technicians, coreshack technicians, or geologists completed these tasks.

Geologists performed geological logging, recorded structural measurements, marked samples, and prepared and affixed sample tags. Geological logging included collecting information about lithology, alteration, mineralization, general structure, veining, and magnetism. All the drill holes were sampled continuously from top to bottom. The ideal sampling interval was one meter; however, samples were allowed to range between 0.3 and 1.5 m to respect lithological or structural boundaries and mineralization limits. The preferred range of between 0.50 m and 1.0 m included 98.8% of the samples; 92% of the samples were 1.0 m.

Geological technicians collected various downhole petrophysical data. Magnetic susceptibility and conductivity readings were taken on core every 0.5 m using MPP Multi Parameter Probe developed by Instrumentation GDD Inc. Small samples collected every 9 m (in some cases every 6 m) were subjected to:

- Specific gravity (**SG**) measurements using the Archimedes method (see Section 4.5).
- Apparent resistivity and time domain induced polarization (**IP**) measured using an Instrumentation GDD Sample Core IP Tester (**SCIP**) device, and
- Elemental composition readings using an Olympus Vanta X-Ray Fluorescence (p**XRF**) portable device.

In addition to gold assaying, every 15-20th core sample was also analyzed for a suite of major and trace elements (ALS multi-element method ME-MS61).

The core was photographed both wet and dry in sets of four coreboxes. The digital photographs were cropped, and then renamed with the drillhole and interval information, and stored on the site server in a designated folder.

The open wooden coreboxes are stored outside on roofed metal racks at the Douay secure site. Metal box tags, printed by Services Exploration in Rouyn-Noranda, were stapled to the coreboxes as they became available.

4.4 DATA MANAGEMENT

Drillhole data were maintained in a centralized site server-hosted MS SQL Server format database that was created by GeoticLog. Users accessed the database via GeoticLog running on Wi-Fi-connected laptops. Each user had set permissions. The database manager had full GeoticLog permissions and was connected directly to the SQL Server database using an ODBC link from MS-Access. The geologists logged directly into the tables using GeoticLog and, when necessary, could export the data from GeoticLog in MS-Excel format.

The geological technicians created download files from the MPP, SCIP, and XRF instruments, and typed the corebox inventory and specific gravity measurements into MS-Excel spreadsheets. Drillers or geologists downloaded downhole surveys from the Reflex EZ-Gyro tool. The database manager loaded these files into the database using template spreadsheets in GeoticLog format.

Assay results received from the lab in MS-Excel or ASCII format were imported into GeoticLog by the database manager.

The database manager used MS-Access to query, tabulate, report, or export data in any configuration as required.

Backups were created each time a specified user closed GeoticLog, or anytime, by any user, on demand. An automatic once-daily SQL Server backup was part of the IT management. All files are stored on the site server, which was administrated by Excell IT Inc., a commercial information technology (IT) company. All data were periodically (mostly monthly) transferred to external hard disks, and then carried offsite by the Vice President Exploration, Fred Speidel. Additional software used included Geovia GEMS, Datamine Mapinfo/Discover, Microsoft Office, and the conversion programs for Reflex tools.

4.5 SPECIFIC GRAVITY

During the winter 2020 drill program, the specific gravity (**SG**) of 494 samples were determined using the Archimedes method. The global average specific gravity value is 2.8. SG values ranged from 2.56 to 3.3, with 87% of the samples with an SG between 2.6 and 3.0.

Samples of whole core, and occasionally half core, ranging from 4 cm to 16.5 cm, were collected every 9 meters. The samples were dried in open air. Each sample was first weighed on the top platform of, or suspended below, an Ohaus SPX6201 electronic balance. The sample was then suspended from the bottom hook of the balance into a bucket of water, and the mass of the fully submerged sample was recorded.

The specific gravity was calculated using the formula SG = Mass in air/(Mass in air – Mass in water).

Tables 10, 11, and 12 summarize the average specific gravity of each group of lithological units, ordered by LithGroup, the average specific gravity by grade range bins, and the SG samples by lithological group and grade bins, respectively.

Table 10. Summary of winter 2020 specific gravity measurements by lithological group

LithGroup	RockTypes	Count	Minimum	Maximum	Average
Carbonatite	Carbonatite	2	2.70	2.80	2.75
Fault	Fault	1	2.76	2.76	2.76
Felsic volcanic	Dacite/rhyolite	23	2.67	3.24	2.84
Intermediate intrusive	Alkali feldspar syenite	1	2.73	2.73	2.73
Intermediate volcanic	Andesite	2	2.69	2.71	2.70
Mafic volcanic	Basalt/Mg-Basalt	188	2.56	3.30	2.91
Mixed BS	Basalt with syenitic injections	41	2.61	3.12	2.80
Mixed SB	Syenite with basalt inclusions	19	2.64	2.90	2.75
Sediment	Undifferentiated sediments (Cartwright)	3	2.73	3.14	2.90
Sediment	Undifferentiated sediments (Taibi)	7	2.73	2.87	2.78
Syenite	Syenite	113	2.58	2.96	2.67
Tuff	Tuff	87	2.71	3.02	2.80
Ultramafic volcanic	Ultramafic volcanic	7	2.83	2.99	2.90
All		**494**	**2.69**	**2.96**	**2.79**

The average SG ranged from 2.67 for syenite (113 samples tested) to 2.91 for basalt and ultramafic volcanics (188 + 7 samples tested). When the SG for each lithological group is compared to the global SG, there is an absolute percent difference of 0.36 to 6.05%.

Table 11. Summary of winter 2020 specific gravity measurements by gold group

AuGroup (ppm)	Count	Minimum	Maximum	Average
>=0.00 And <0.10	411	2.56	3.30	2.83
>=0.10 And <0.25	24	2.61	2.97	2.73
>=0.25 And <0.50	23	2.58	3.12	2.77
>=0.50 And <1.00	20	2.59	3.03	2.72
>=1.00 And <2.00	9	2.61	2.86	2.72
>=2.00 And <5.00	7	2.58	2.80	2.67
All	**494**	**2.59**	**3.01**	**2.74**

The SG ranged from 2.67 (gold values between 2.00 and 5.00 ppm), and 2.83 (gold values between 0 ppm and 0.1 ppm). When the SG for each grade bin is compared to the global SG, there is an absolute percent difference of 0.36 to 3.19%. There is not an obvious correlation between SG and gold grade; however, 83% of the SG samples has gold values of below 0.1 ppm Au.

Table 12 summarizes the SG samples by lithological group and grade bins. There are no obvious correlations. The largest bin (39% of the samples) comprised of mafic volcanic samples with gold results between 0 and 0.1 ppm Au had a generally higher SG of 2.91.

Table 12. Summary of winter 2020 specific gravity measurements by lithological group and gold group

LithGroup	AuGroup	Count	Minimum	Maximum	Average
Carbonatite	>=0.00 And <0.10	2	2.70	2.80	2.75
Fault	>=0.00 And <0.10	1	2.76	2.76	2.76
Felsic volcanic	>=0.00 And <0.10	20	2.67	3.24	2.78
Felsic volcanic	>=0.50 And <1.00	2	2.86	3.03	2.95
Felsic volcanic	>=1.00 And <2.00	1	2.84	2.84	2.84
Intermediate intrusive	>=0.00 And <0.10	1	2.73	2.73	2.73
Intermediate volcanic	>=0.00 And <0.10	1	2.71	2.71	2.71
Intermediate volcanic	>=0.50 And <1.00	1	2.69	2.69	2.69
Mafic volcanic	>=0.00 And <0.10	179	2.56	3.30	2.91
Mafic volcanic	>=0.10 And <0.25	4	2.68	2.97	2.77
Mafic volcanic	>=0.25 And <0.50	4	2.69	2.99	2.84
Mafic volcanic	>=0.50 And <1.00	1	2.77	2.77	2.77
Mixed BS	>=0.00 And <0.10	28	2.67	2.90	2.80
Mixed BS	>=0.10 And <0.25	4	2.65	2.76	2.71
Mixed BS	>=0.25 And <0.50	6	2.61	3.12	2.85
Mixed BS	>=0.50 And <1.00	2	2.69	2.79	2.74
Mixed BS	>=1.00 And <2.00	1	2.77	2.77	2.77
Mixed SB	>=0.00 And <0.10	16	2.64	2.90	2.74
Mixed SB	>=0.10 And <0.25	2	2.69	2.76	2.73
Mixed SB	>=0.25 And <0.50	1	2.83	2.83	2.83
Sediment (Cartwright)	>=0.00 And <0.10	3	2.73	3.14	2.90
Sediment (Taibi)	>=0.00 And <0.10	6	2.73	2.87	2.79
Sediment (Taibi)	>=0.25 And <0.50	1	2.75	2.75	2.75
Syenite	>=0.00 And <0.10	72	2.59	2.77	2.67
Syenite	>=0.10 And <0.25	12	2.61	2.96	2.71
Syenite	>=0.25 And <0.50	7	2.58	2.73	2.64
Syenite	>=0.50 And <1.00	11	2.59	2.77	2.65
Syenite	>=1.00 And <2.00	5	2.61	2.67	2.64
Syenite	>=2.00 And <5.00	6	2.58	2.72	2.64
Tuff	>=0.00 And <0.10	75	2.71	3.02	2.80
Tuff	>=0.10 And <0.25	2	2.84	2.86	2.85
Tuff	>=0.25 And <0.50	4	2.75	2.80	2.77
Tuff	>=0.50 And <1.00	3	2.76	2.92	2.82
Tuff	>=1.00 And <2.00	2	2.81	2.86	2.84
Tuff	>=2.00 And <5.00	1	2.80	2.80	2.80
Ultramafic volcanic	>=0.00 And <0.10	7	2.83	2.99	2.90
All		**494**	**2.71**	**2.87**	**2.77**

5 SAMPLE PREPARATION, ANALYSES AND SECURITY

5.1 SAMPLE COLLECTION

The logged drill core with samples marked by geologists was cut using an Almonte diamond-blade automatic saw equipped with a Fordia water management and filtration system. The containerized unit was assembled in Val-d'Or, QC.

Geologists marked the samples according to lithology, mineralization, and alteration. Sample lengths ranged from 0.3 m to 1.5 m; 96% of the samples were 1.0 m. Trained geological technicians cut the core in halves or quarters, bagged and tagged the samples, inserted quality control samples, and prepared batches of samples for shipment to the lab.

All holes were continuously sampled from top to bottom.

5.2 QUALITY ASSURANCE PROTOCOLS

Maple Gold has implemented a rigorous quality assurance program to ensure confidence in the data collected. Control samples systematically inserted into the sample stream at a predetermined schedule were:

- commercial certified reference materials (standards),
- field blanks,
- field duplicates, and
- preparation (prep or coarse) duplicates.

Control samples were vetted immediately after the results were received from the laboratories by using database queries that employed the rules established by Maple Gold for evaluation. There were no quality control issues with the 2020 assay data. A detailed analysis of the quality assurance program is provided in Appendix 8.

During the 2020 winter drilling season, 4,130, including 267 control samples, were submitted for gold and multi-element analysis. Every sample was analyzed for gold, and approximately every 15-20th sample had multi-element analysis. The frequency of QA/QC sample insertion was 6.5% of the total number of samples.

Tables 13 and 14 provide a summary of core and quality control samples taken during the winter 2020 drill program.

Table 13. Summary of drilling program samples

Sample Code	Sample Type	Count	Percentage of Total
Core	Core sample (1/2 or 1/4 split [field duplicate])	3,863	93.54
CDN-GS-P1A	Commercial certified standard (60 g packet)	36	0.87
OREAS 214	Commercial certified standard (60 g packet)	34	0.82
OREAS 251	Commercial certified standard (60 g packet)	32	0.77
Blank	Commercial white garden stone (marble)	82	1.99
Field Duplicate	Core sample (1/4 split)	42	1.02
Prep Duplicate	Sample split from crushed sample	41	0.99
Total		**4,130**	**100.00**

Table 14. Summary of samples by drillhole

Drillhole	Sample series		Sample count		Total samples
	from	to	Core	QA/QC	
DO-20-262X	V473610	V473775	156	10	166
DO-20-269	V469801	V470500	664	46	710
	V473601	V473609			
DO-20-272	V472001	V472046	43	3	46
DO-20-272A	V472047	V472452	380	26	406
DO-20-273	A0101801	A0102346	511	35	546
DO-20-274	A0104055	A0104216	151	11	162
DO-20-275	V472453	V472790	316	22	338
DO-20-276	A0102347	A0102500	249	17	266
	A0103601	A0103712			
DO-20-277	A0103713	A0103814	95	7	102
DO-20-278	V473859	V473233	164	11	175
DO-20-279	V472791	V472989	237	16	253
	A0104001	A0104054			
DO-20-280	A0104312	A0104619	288	20	308
DO-20-281	A0104620	A0104907	269	19	288
DO-20-282	V473776	V473858	77	6	83
DO-20-283	A0103815	A0104000	263	18	281
	A0104217	A0104311			
		Total	**3,863**	**267**	**4,130**

5.3 SECURITY

Core logging was conducted in a large facility that is part of the main office and dry building. Core cutting and sampling occurred in an adjacent container perpendicular to the main building. A sample storage and shipping preparation container abutted the core cutting facility. The metal racks for storing core were

located behind the main building. The building and containers were closed when not in use. All these facilities are located within a fenced area on the property. Workers monitor the area at all times.

The core samples were prepared for shipment by the geological technicians within the core sawing or storage containers. Samples were placed into numbered fiber bags, which were sealed with a numbered plastic locking tag. The contents of each bag was recorded on paper forms and later transferred into Excel spreadsheets. The geologists prepared the appropriate forms for shipping. A paper copy of the sample submittal was placed in the lead bag of each shipment, and a digital version was emailed directly to the laboratory.

On the day of shipping, the closed fiber bags were placed onto wooden pallets, and wrapped with plastic film. Aldée Naud Transport, of Amos, QC, retrieved a shipment every one to two weeks, and delivered them directly to the ALS preparation laboratory in Val-d'Or, QC.

If required in order to expedite processing, ALS would re-distribute samples from Val-d'Or for preparation at other branches located in Timmins and Thunder Bay, ON. Over-grade samples (>10 g/t Au) and samples chosen for the multi-element analysis were processed at the ALS branch in Vancouver, BC.

There were no reported incidences of tampering. The laboratory reported damage to the fiber and/or sample bags on one occasion. This damage was documented in the drillhole database. The affected samples were salvaged and analyzed normally.

5.4 LABORATORY SAMPLE PREPARATION AND ANALYSES

ALS Global (**ALS**) prepared and assayed all samples for gold. A subset of samples was analyzed for a suite of other elements.

ALS has strategically designed processes and a global quality management system that meet all requirements of International Standards ISO/IEC 17025:2017 and ISO 9001:2015. All ALS geochemical hub laboratories are accredited to ISO/IEC 17025:2017 for specific analytical procedures. The ALS quality program includes quality control steps through sample preparation and analysis, inter-laboratory test programs, and regular internal audits. It is an integral part of day-to-day activities, involves all levels of ALS staff and is monitored at top management levels.

Core samples were crushed until 70% of the sample was less than two mm. Samples were then pulverized until 85% of the sample was finer than 75 µm. Pulverized samples were then split to the appropriate sizes for the analytical procedure.

For gold, a 30 g sample was assayed by fire assay with an ICP-AES finish (Au-ICP21). Samples with over-grade gold (Au >= 10 ppm) were re-analyzed by 30 g fire assay with a gravimetric finish (Au-GRA21).

For multi-element analysis, a 0.25 g sample was processed for a 48-element suite using a four-acid digestion with an ICP-MS finish (ME-MS61).

The procedures used at the laboratory are listed in Table 16. The short methods for these procedures are included as Appendix 7.

In all cases, an over-grade assay result takes precedence over the original result.
All pulps and selected rejects were typically returned to Douay within 90 days.

Table 15. Laboratory analytical procedures

Lab ID	Lab Code	Description
ALS	WEI-21	Received sample weight
	CRU-31; PUL-31	Fine crushing – 70% <2 mm; Pulverize split to 85%<75 µm
	CRU-31d, PUL-31d	Fine crushing – 70% <2 mm; Pulverize split to 85%<75 µm - duplicate
	CRU-QC; PUL-QC	Fine crushing – 70% <2 mm; Pulverize split to 85%<75 µm – QA/QC
	SPL-21	Split sample – riffle splitter
	Au-ICP21	Au 30 g FA - ICP-AES finish; instrument ICP-AES
	Au-GRA21	Au 30 g FA - GRAV finish; instrument WST-SEQ; over-grade for Au-ICP21
	ME-MS61	48 element four acid ICP-MS

Table 16: Summary of samples by analytical method

LabID		Method	Count	Percentage of Total
ALS	Gold	Au-ICP21	4,130	100.00
ALS	Gold	Au-GRA21	2	0.05
ALS	Multi-element	ME-MS61	232	5.62

6 CONCLUSIONS AND RECOMMENDATIONS

The primary objective of the 2020 drilling program was to demonstrate continuity of mineralized areas both near surface and at moderate depths (at or beyond base of conceptual pit depths). This goal has been largely achieved despite an unexpected interruption of drilling caused by the Covid-19 closures. Most of the 15 holes completed in 2020 (not including holes abandoned in overburden at the 531 zone) distributed across the Nika, Northwest, Porphyry, and 531 Zones were successful in intersecting and extending gold mineralization within the resource area.

The highlights of 2020 drilling results:

1. A successful deepening of the hole DO-19-262 at the 531 zone, which intersected two broad, continuous mineralized zones, resulted in two additional narrow intervals and a 3.5m long, mineralized zone averaging 5.96 g/t Au including 11.35 g/t Au over 1.7 meters.
2. Hole DO-20-269 at the 531 zone, which tested down-dip extensions of gold mineralization to the south of DO-19-262, intersected three low-grade and high-grade mineralized intervals below the

vertical depth of 640 meters. One of the intervals at the bottom of the hole returned 1.50 g/t Au over 5.2 meters, including 2.41 g/t Au over 2.0 meters.

3. Drilling within the Nika and Porphyry Zones, which was designed to follow up on some of the best results from 2018-2019, confirmed good continuity of higher-than-average gold grade mineralization near surface and at modest depths. In many cases, mineralization remains open at depth and laterally prompting further follow-up drilling.
4. Holes drilled at Porphyry (West) zone encountered several broad mineralized zones notably 75 meters of 1.23 g/t Au, including 31 meters of 1.61 g/t Au, in hole DO-20-281 and 17 meters of 1.91 g/t Au and 7 meters of 1.06 g/t Au intercepted by DO-20-283 at end-of-hole. The western part of the Porphyry zone contains the largest block of indicated resources outside of the Douay West Zone, and also produced some of the longest, most continuous, intrusive-hosted intercepts of the Douay Project. This zone will be a key focus for the Company's subsequent exploration campaigns to add near-surface, higher-grade ounces and upgrade the resource category in the area.
5. Two of four Nika holes did not reach their planned depth, one for technical reasons and the other for the Covid-19 shutdown, but the area still yielded multiple intercepts exceeding 1 g/t Au. Hole DO-20-282 was aborted in mineralization and will be extended to the originally planned depth during the future drill program.
6. Hole DO-20-272 at the Northwest Zone was successful in intersecting two high-grade mineralized zones (4.2 g/t Au over 3.4m and 1.04 g/t Au over 23m), proving the western continuity of the high-grade gold intercept in a historical hole 4140-94-04 (3.14 g/t Au over 8.9 meters). These intercepts were significant as they not only indicated the potential for expanded near-surface and higher grade resources in the NW Zone, but also the potential presence of similar additional mineralization along this relatively sparsely drilled contact area both to the west and to the east.

Future work should include:

- Step-out drilling around known higher grade (>1.5 g/t Au) intercepts, particularly near surface;
- Follow-up on the higher grade gold intercepts on the Nika, Porphyry and 531 Zones in order to determine the continuity and volume potential of these respective areas;
- Drilling focused on expanding down-plunge and peripheral extensions of both Nika and Porphyry Zones. This may eventually lead to connecting two existing conceptual pits (Micon, 2018) located to the ESE and WNW of Nika and subsequently improve mineral resource estimates;
- Follow-up on near-surface high-grade intercepts on Northwest Zone. There are multiple drilling gaps along the northern flank of the resource area with a total cumulative length of approximately 3.5 kilometers for further exploration;
- Expanding exploration efforts beyond the current mineral resource area.
- 3D Modeling and interpretation of all geoscientific data relevant to gold mineralization to better constrain resource estimation and to allow a better understanding of the controls on gold mineralization;
- Data mining including simplification of and recoding of lithologies and alteration patterns where necessary;

- Compilation, analysis, and interpretation of collected geochemical data (whole rock, multi-element, XRF);
- Continuation of the ongoing re-logging and re-interpretation of 531 Zone historical core in conjunction with the newly acquired data from DO-19-262, its extension and DO-20-269;
- Continuation of selective re-logging of historical core in order to resolve specific questions (ex: with regard to orientation and continuity of mineralized zones, as well as related structural interpretations;
- Completion of phase 2 of channel sampling and detailed geological mapping on the Syenite outcrop;
- Conducting Induced Polarization ("IP") geophysical survey on the flanks and outside of the Resource Area to establish new high-grade discovery targets.

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Maple Gold Mines: https://maplegoldmines.com; news releases and general information

Ministère de l'Énergie et des Ressources naturelles (MERN): https://gestim.mines.gouv.qc.ca; a Mining Title Management System (GESTIM Plus), mineral titles

SIGEOM: http://sigeom.mines.gouv.qc.ca; assessment reports

System for Electronic Document Analysis and Retrieval (SEDAR): https://www.sedar.com/; technical reports

CERTIFICATE OF QUALIFICATIONS FOR FRIEDRICH SPEIDEL

I, Friedrich Speidel, of Burlington, Ontario, do hereby certify that:

1. I am the Vice President of Exploration for Maple Gold Mines Ltd. since mid-September 2017, with offices located at 1111 West Hastings Street, 6th Floor, Vancouver, British Columbia V6E 2J3.

2. I graduated with a Bachelor of Science (Honours) degree in Geology from McGill University in 1984, and a Master of Science degree in Mineral Exploration from Queen's University in 1988.

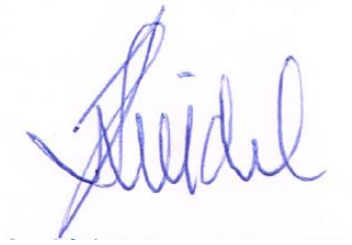
3. I am a Professional Geoscientist and practicing member registered with the Association of Professional Geoscientists of Ontario. I am an active member of the Ordre des Géologues du Québec (OGQ). I am also a Fellow with the Society of Economic Geologists (SEG) as well as a member of the Society for Geology Applied to Mineral Deposits (SGA), of the Association of Applied Geochemists (AAG), of the Association de l'Exploration Minière du Québec (AEMQ), and of the Prospectors and Developers Association of Canada (PDAC).

4. I have worked as a geologist continuously for over 35 years since graduation. My professional experience includes exploration, discovery, evaluation, and development of mineral properties in North, Central, and South America. I have worked in a variety of styles of mineral deposits including Intrusive-Related Gold Systems in Northern Quebec earlier on in my career.

5. I have been directly involved with the Douay project since late 2017.

6. I have co-authored the report titled "Assessment Report for the Douay Property: Winter 2020 Diamond Drilling Program" dated January 12, 2022.

Dated January 12, 2022 in Burlington, ON.



Friedrich Speidel, P.Geo, M.Sc, FSEG, OGQ #2114
Vice President Exploration, Maple Gold Mines

CERTIFICATE OF QUALIFICATIONS FOR MARIA SOKOLOV

I, Maria Sokolov, residing in the City of Beaconsfield in Quebec, Canada, do hereby certify that:

1. I am currently employed by Maple Gold Mines Ltd. as a Senior Exploration Geologist and have been working in this role since March 2019.

2. I graduated with a Diploma (M.Sc. degree equivalent) from the Faculty of Geology of Lomonosov Moscow State University in 1992. I completed my Master's degree in Geology at McGill University in Montreal in 2007, and since then I have worked on many exploration projects in Quebec and Ontario.

3. I am a practicing Professional Geologist registered with the Ordre des Géologues du Québec (OGQ) and the Association of Professional Geoscientists of Ontario (PGO). I am also a member of the l'Association de l'Exploration Minière du Québec (AEMQ), of the Mineralogical Association of Canada (MAC), and of the Prospectors and Developers Association of Canada (PDAC).

4. I have co-authored the report titled "Assessment Report for the Douay Property: Winter 2020 Diamond Drilling Program" dated January 12, 2022.

5. I consent to the use of this report by Maple Gold Mines Ltd. in submission for assessment credits or similar provincial regulatory requirements.

Dated January 8, 2022 in Beaconsfield, Quebec

Maria Sokolov, M.Sc., P.Geo, OGQ #1491
Senior Exploration Geologist, Maple Gold Mines

GLOSSARY

Symbols and Units of Measurement

Centimeter	cm
Degrees	°
Degrees Celsius	°C
Equal to	=
Gram	g
Grams per tonne	g/t
Greater than or equal to	>=
Hectare	ha
Kilogram.	kg
Kilometer	km
Kilometers per hour	km/h
Less than or equal to	<=
Meter	m
Micron	µ
Millimeter	mm
Minus	-
One half	½
One quarter	¼
Ounce	oz
Parts per billion	ppb
Parts per million	ppm
Percent	%
Plus	+
Plus or minus	±
Square kilometers	km^2
Tonnes	t

APPENDIX 1: LIST OF DOUAY CLAIMS (AS OF OCT. 05, 2020)

***MGM** = Maple Gold Mines ltd. (97338) 100% owned claims*

***SOQ25-MGM75** = SOQUEM Inc. (2427) 25%; Maple Gold Mines Ltd. (97338) 75%*

ClaimID	Owner	Expiry	ClaimID	Owner	Expiry	ClaimID	Owner	Expiry
101773	MGM	15-Nov-22	1133117	MGM	6-Jan-22	1133151	MGM	6-Jan-22
101774	MGM	15-Nov-22	1133118	MGM	6-Jan-22	1133152	MGM	6-Jan-22
101775	MGM	15-Nov-22	1133119	MGM	6-Jan-22	1133153	MGM	6-Jan-22
101776	MGM	15-Nov-22	1133120	MGM	6-Jan-22	1133154	MGM	6-Jan-22
101777	MGM	15-Nov-22	1133121	MGM	6-Jan-22	1133155	MGM	6-Jan-22
101778	MGM	15-Nov-22	1133122	MGM	6-Jan-22	1133156	MGM	6-Jan-22
101779	MGM	15-Nov-22	1133123	MGM	6-Jan-22	1133157	MGM	6-Jan-22
101780	MGM	15-Nov-22	1133124	MGM	6-Jan-22	1133158	MGM	6-Jan-22
101781	MGM	15-Nov-22	1133125	MGM	6-Jan-22	1133159	MGM	6-Jan-22
101782	MGM	15-Nov-22	1133126	MGM	6-Jan-22	1133160	MGM	6-Jan-22
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1133114	MGM	6-Jan-22	1133148	MGM	6-Jan-22	1133182	MGM	6-Jan-22
1133115	MGM	6-Jan-22	1133149	MGM	6-Jan-22	1133183	MGM	6-Jan-22
1133116	MGM	6-Jan-22	1133150	MGM	6-Jan-22	1133184	MGM	6-Jan-22

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1133194	MGM	6-Jan-22	1133234	MGM	6-Jan-22	2193308	MGM	2-Nov-22
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1133218	MGM	6-Jan-22	1133260	MGM	24-Jun-22	2193333	MGM	2-Nov-22
1133219	MGM	6-Jan-22	1133261	MGM	24-Jun-22	2355500	SOQ25:MGM75	25-Feb-22
1133220	MGM	6-Jan-22	1133262	MGM	24-Jun-22	2355501	SOQ25:MGM75	25-Feb-22
1133221	MGM	6-Jan-22	1133263	MGM	24-Jun-22	2355502	SOQ25:MGM75	25-Feb-22
1133222	MGM	6-Jan-22	1133264	MGM	24-Jun-22	2355503	SOQ25:MGM75	25-Feb-22
1133223	MGM	6-Jan-22	1133265	MGM	24-Jun-22	2355504	SOQ25:MGM75	25-Feb-22
1133224	MGM	6-Jan-22	1133266	MGM	24-Jun-22	2355505	SOQ25:MGM75	25-Feb-22

ClaimID	Owner	Expiry	ClaimID	Owner	Expiry	ClaimID	Owner	Expiry
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2355507	SOQ25:MGM75	25-Feb-22	2420557	MGM	28-Dec-21	2486533	MGM	21-Mar-22
2355508	SOQ25:MGM75	25-Feb-22	2420558	MGM	28-Dec-21	2486534	MGM	21-Mar-22
2355509	SOQ25:MGM75	25-Feb-22	2420559	MGM	28-Dec-21	2486535	MGM	21-Mar-22
2355510	SOQ25:MGM75	25-Feb-22	2420560	MGM	28-Dec-21	2486536	MGM	21-Mar-22
2355511	SOQ25:MGM75	25-Feb-22	2420561	MGM	28-Dec-21	2486537	MGM	21-Mar-22
2355512	SOQ25:MGM75	25-Feb-22	2420562	MGM	28-Dec-21	2486538	MGM	21-Mar-22
2355513	SOQ25:MGM75	25-Feb-22	2420563	MGM	28-Dec-21	2486539	MGM	21-Mar-22
2355514	SOQ25:MGM75	25-Feb-22	2420564	MGM	28-Dec-21	2486540	MGM	21-Mar-22
2355515	SOQ25:MGM75	25-Feb-22	2425996	MGM	1-Apr-22	2486541	MGM	21-Mar-22
2355516	SOQ25:MGM75	25-Feb-22	2425997	MGM	1-Apr-22	2486542	MGM	21-Mar-22
2355517	SOQ25:MGM75	25-Feb-22	2425998	MGM	1-Apr-22	2486543	MGM	21-Mar-22
2355518	SOQ25:MGM75	25-Feb-22	2425999	MGM	1-Apr-22	2486544	MGM	21-Mar-22
2355519	SOQ25:MGM75	25-Feb-22	2426000	MGM	1-Apr-22	2486545	MGM	21-Mar-22
2355520	SOQ25:MGM75	25-Feb-22	2426001	MGM	1-Apr-22	2486546	MGM	21-Mar-22
2355521	SOQ25:MGM75	25-Feb-22	2426002	MGM	1-Apr-22	2486547	MGM	21-Mar-22
2355522	SOQ25:MGM75	25-Feb-22	2426003	MGM	1-Apr-22	2486548	MGM	21-Mar-22
2355523	SOQ25:MGM75	25-Feb-22	2486509	MGM	21-Mar-22	2486549	MGM	21-Mar-22
2355524	SOQ25:MGM75	25-Feb-22	2486510	MGM	21-Mar-22	2486550	MGM	21-Mar-22
2355525	SOQ25:MGM75	25-Feb-22	2486511	MGM	21-Mar-22	2486551	MGM	21-Mar-22
2355526	SOQ25:MGM75	25-Feb-22	2486512	MGM	21-Mar-22	2486552	MGM	21-Mar-22
2355527	SOQ25:MGM75	25-Feb-22	2486513	MGM	21-Mar-22	2486553	MGM	21-Mar-22
2355528	SOQ25:MGM75	25-Feb-22	2486514	MGM	21-Mar-22	2486554	MGM	21-Mar-22
2355529	SOQ25:MGM75	25-Feb-22	2486515	MGM	21-Mar-22	2486555	MGM	21-Mar-22
2355530	SOQ25:MGM75	25-Feb-22	2486516	MGM	21-Mar-22	2486556	MGM	21-Mar-22
2355531	SOQ25:MGM75	25-Feb-22	2486517	MGM	21-Mar-22	2486557	MGM	21-Mar-22
2355548	MGM	12-May-22	2486518	MGM	21-Mar-22	2486558	MGM	21-Mar-22
2355549	MGM	12-May-22	2486519	MGM	21-Mar-22	2486559	MGM	21-Mar-22
2355550	MGM	12-May-22	2486520	MGM	21-Mar-22	2486560	MGM	21-Mar-22
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2355552	MGM	12-May-22	2486522	MGM	21-Mar-22	2486562	MGM	21-Mar-22
2420547	MGM	28-Dec-21	2486523	MGM	21-Mar-22	2486563	MGM	21-Mar-22
2420548	MGM	28-Dec-21	2486524	MGM	21-Mar-22	2486564	MGM	21-Mar-22
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2420550	MGM	28-Dec-21	2486526	MGM	21-Mar-22	2486566	MGM	21-Mar-22
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2420552	MGM	28-Dec-21	2486528	MGM	21-Mar-22	2486568	MGM	21-Mar-22
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2420554	MGM	28-Dec-21	2486530	MGM	21-Mar-22	2486570	MGM	21-Mar-22
2420555	MGM	28-Dec-21	2486531	MGM	21-Mar-22	2486571	MGM	21-Mar-22

ClaimID	Owner	Expiry	ClaimID	Owner	Expiry	ClaimID	Owner	Expiry
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2486573	MGM	21-Mar-22	2486887	MGM	22-Mar-22	2487107	MGM	22-Mar-22
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2486878	MGM	22-Mar-22	2487084	MGM	22-Mar-22	2487668	MGM	23-Mar-22
2486879	MGM	22-Mar-22	2487085	MGM	22-Mar-22	2487669	MGM	23-Mar-22
2486880	MGM	22-Mar-22	2487086	MGM	22-Mar-22	2487670	MGM	23-Mar-22
2486881	MGM	22-Mar-22	2487087	MGM	22-Mar-22	2487671	MGM	23-Mar-22
2486882	MGM	22-Mar-22	2487088	MGM	22-Mar-22	2487672	MGM	23-Mar-22
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2486884	MGM	22-Mar-22	2487090	MGM	22-Mar-22	2487674	MGM	23-Mar-22
2486885	MGM	22-Mar-22	2487091	MGM	22-Mar-22	2487675	MGM	23-Mar-22

ClaimID	Owner	Expiry	ClaimID	Owner	Expiry	ClaimID	Owner	Expiry
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2487778	MGM	23-Mar-22	2498209	MGM	23-Jul-22	2503642	MGM	10-Oct-22
2487779	MGM	23-Mar-22	2498210	MGM	23-Jul-22	2503643	MGM	10-Oct-22
2487780	MGM	23-Mar-22	2498211	MGM	23-Jul-22	2503644	MGM	10-Oct-22
2487781	MGM	23-Mar-22	2498212	MGM	23-Jul-22	2503645	MGM	10-Oct-22
2487782	MGM	23-Mar-22	2498213	MGM	23-Jul-22	2503646	MGM	10-Oct-22
2487783	MGM	23-Mar-22	2498214	MGM	23-Jul-22	2503647	MGM	10-Oct-22

ClaimID	Owner	Expiry
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2503649	MGM	10-Oct-22
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2503738	MGM	18-Oct-22

ClaimID	Owner	Expiry
2503739	MGM	18-Oct-22
2503740	MGM	18-Oct-22
2503741	MGM	18-Oct-22
2503742	MGM	18-Oct-22
2503743	MGM	18-Oct-22
2503744	MGM	18-Oct-22
2503745	MGM	18-Oct-22
2503746	MGM	18-Oct-22
2503747	MGM	18-Oct-22
2503748	MGM	18-Oct-22
2503749	MGM	18-Oct-22
2503750	MGM	18-Oct-22
2503751	MGM	18-Oct-22
2503752	MGM	18-Oct-22
2503753	MGM	18-Oct-22
2507434	MGM	3-Dec-22
2507435	MGM	3-Dec-22
2507737	MGM	11-Dec-22
2507738	MGM	11-Dec-22
2507739	MGM	11-Dec-22
2507740	MGM	11-Dec-22
2515257	MGM	26-Mar-23
2515258	MGM	26-Mar-23
2515259	MGM	26-Mar-23
2515260	MGM	26-Mar-23
2515261	MGM	26-Mar-23
2529099	MGM	10-Dec-21
2529100	MGM	10-Dec-21
2529101	MGM	10-Dec-21
2529102	MGM	10-Dec-21

ClaimID	Owner	Expiry
2529103	MGM	10-Dec-21
2529104	MGM	10-Dec-21
2529105	MGM	10-Dec-21
2529106	MGM	10-Dec-21
2529107	MGM	10-Dec-21
2529108	MGM	10-Dec-21
2529109	MGM	10-Dec-21
2529110	MGM	10-Dec-21
2529111	MGM	10-Dec-21
2529112	MGM	10-Dec-21
2529113	MGM	10-Dec-21
2529114	MGM	10-Dec-21
2529115	MGM	10-Dec-21
2529116	MGM	10-Dec-21
2529117	MGM	10-Dec-21
2532445	MGM	28-Feb-22
2532446	MGM	28-Feb-22
2532447	MGM	28-Feb-22
2532448	MGM	28-Feb-22
2532449	MGM	28-Feb-22
2532450	MGM	28-Feb-22
2532451	MGM	28-Feb-22
2532452	MGM	28-Feb-22
2535698	MGM	4-Apr-22
2565647	MGM	14-May-22
2565648	MGM	14-May-22
2565649	MGM	14-May-22

APPENDIX 2: CLAIM MAP (1:75,000) (VOLUME 2, MAP 1)
APPENDIX 3: DRILLHOLE LOCATION MAP (1:75,000) (VOLUME 2, MAP 2)
APPENDIX 4: DRILLHOLE LOGS WITH ASSAY RESULTS (VOLUME 3)
APPENDIX 5: ASSAY CERTIFICATES (VOLUME 4)

Table i: List of assay certificates by drillhole

NDX	Hole ID	Cert ID		NDX	Hole ID	Cert ID		NDX	Hole ID	Cert ID
1	DO-20-262X	VO19111106		17	DO-20-273	VO20069213		33	DO-20-279	VO20089199
2	DO-20-262X	VO19111115		18	DO-20-273	VO20069218		34	DO-20-279	VO20089352
3	DO-20-262X	VO20031355		19	DO-20-274	VO20089352		35	DO-20-280	VO20089354
4	DO-20-262X	VO20031383		20	DO-20-274	VO20089353		36	DO-20-280	VO20089356
5	DO-20-269	VO20031322		21	DO-20-275	VO20069226		37	DO-20-280	VO20094559
6	DO-20-269	VO20031325		22	DO-20-275	VO20069229		38	DO-20-280	VO20094562
7	DO-20-269	VO20031327		23	DO-20-275	VO20069233		39	DO-20-281	VO20094562
8	DO-20-269	VO20031331		24	DO-20-276	VO20069218		40	DO-20-281	VO20094564
9	DO-20-269	VO20031355		25	DO-20-276	VO20069221		41	DO-20-282	VO20089199
10	DO-20-272	VO20059813		26	DO-20-276	VO20089199		42	DO-20-282	VO20094559
11	DO-20-272A	VO20059813		27	DO-20-276	VO20089349		43	DO-20-283	VO20089351
12	DO-20-272A	VO20059818		28	DO-20-277	VO20089349		44	DO-20-283	VO20089352
13	DO-20-272A	VO20069221		29	DO-20-277	VO20089351		45	DO-20-283	VO20089353
14	DO-20-272A	VO20069226		30	DO-20-278	VO20094558		46	DO-20-283	VO20089354
15	DO-20-273	VO20059808		31	DO-20-278	VO20094559				
16	DO-20-273	VO20069201		32	DO-20-279	VO20089187				

Table ii: List of drillholes by assay certificates

NDX	Cert ID	Hole ID		NDX	Cert ID	Hole ID
1	VO20031322	DO-20-269		22	VO20089187	DO-20-279
2	VO20031325	DO-20-269		23	VO20089199	DO-20-276
3	VO20031327	DO-20-269		24	VO20089199	DO-20-279
4	VO20031331	DO-20-269		25	VO20089349	DO-20-276
5	VO20031355	DO-20-262X		26	VO20089349	DO-20-277
6	VO20031355	DO-20-269		27	VO20089351	DO-20-277
7	VO20031383	DO-20-262X		28	VO20089351	DO-20-283
8	VO20059808	DO-20-273		29	VO20089352	DO-20-274
9	VO20059813	DO-20-272		30	VO20089352	DO-20-279
10	VO20059813	DO-20-272A		31	VO20089352	DO-20-283

NDX	Cert ID	Hole ID		NDX	Cert ID	Hole ID
11	VO20059818	DO-20-272A		32	VO20089353	DO-20-274
12	VO20069201	DO-20-273		33	VO20089353	DO-20-283
13	VO20069213	DO-20-273		34	VO20089354	DO-20-280
14	VO20069218	DO-20-273		35	VO20089354	DO-20-283
15	VO20069218	DO-20-276		36	VO20089356	DO-20-280
16	VO20069221	DO-20-272A		37	VO20094558	DO-20-278
17	VO20069221	DO-20-276		38	VO20094559	DO-20-278
18	VO20069226	DO-20-272A		39	VO20094559	DO-20-280
19	VO20069226	DO-20-275		40	VO20094562	DO-20-280
20	VO20069229	DO-20-275		41	VO20094562	DO-20-281
21	VO20069233	DO-20-275		42	VO20094564	DO-20-281

APPENDIX 6: CROSS SECTIONS WITH INDEX TABLES (VOLUME 5)

List of drillholes by cross section (50 m windows)

Section*	Hole ID	Zone	Section*	Hole ID	Zone
704600E	DO-20-274	Nika West	707800E	DO-20-273	Porphyry East (10)
704800E	DO-20-272	Northwest	708000E	DO-20-277	Porphyry East (10)
704800E	DO-20-272A	Northwest	707800E	DO-20-278	Porphyry East
705200E	DO-20-275	Nika	707900E	DO-20-276	Porphyry East (10)
705300E	DO-20-279	Nika	708900E	DO-20-271	531
705300E	DO-20-282	Nika	709000E	DO-20-262X	531
705900E	DO-20-280	Porphyry West	709000E	DO-20-269	531
705900E	DO-20-281	Porphyry West	709100E	DO-20-270	531
706000E	DO-20-283	Porphyry West			

*Section on which drillhole was collared

List of sections by drillhole (50 m windows)

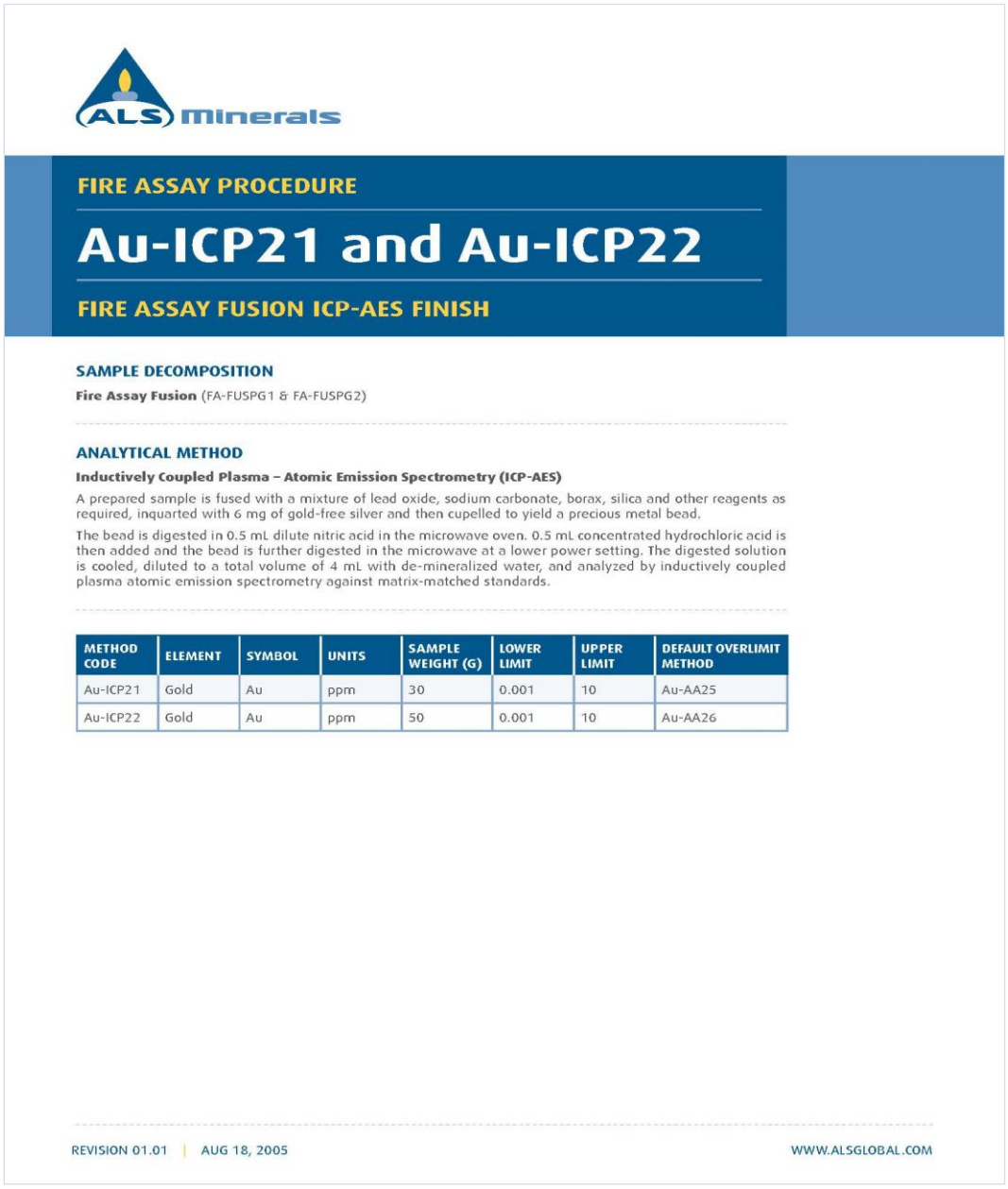
Hole ID	Section*	Zone	Hole ID	Section*	Zone
DO-20-262X	709000E	531	DO-20-276	707900E	Porphyry East (10)
DO-20-269	709000E	531	DO-20-277	708000E	Porphyry East (10)
DO-20-270	709100E	531	DO-20-278	707800E	Porphyry East
DO-20-271	708900E	531	DO-20-279	705300E	Nika
DO-20-272	704800E	Northwest	DO-20-280	705900E	Porphyry West
DO-20-272A	704800E	Northwest	DO-20-281	705900E	Porphyry West
DO-20-273	707800E	Porphyry East (10)	DO-20-282	705300E	Nika
DO-20-274	704600E	Nika West	DO-20-283	706000E	Porphyry West
DO-20-275	705200E	Nika			

*Section on which drillhole was collared

APPENDIX 7: ANALYTICAL METHODS

Short method descriptions for (All at ALS Labs):

Gold:	Au-ICP21: Fire assay with ICP-AES finish on a 30 g sample, detection limits 0.001-10 ppm.
Gold Over-limit:	Au-Gra21: Fire assay with gravimetric finish on a 30 g sample, detection limits 0.05-10,000 ppm. Used for over limits on Au-ICP21.
Multi-element:	ME-MS61: 48 element four acid digestion with ICP-MS finish on a 0.25 g sample, low detection limits depending on element.



ALS Minerals

FIRE ASSAY PROCEDURE

Au-ICP21 and Au-ICP22

FIRE ASSAY FUSION ICP-AES FINISH

SAMPLE DECOMPOSITION

Fire Assay Fusion (FA-FUSPG1 & FA-FUSPG2)

ANALYTICAL METHOD

Inductively Coupled Plasma – Atomic Emission Spectrometry (ICP-AES)

A prepared sample is fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents as required, inquarted with 6 mg of gold-free silver and then cupelled to yield a precious metal bead.

The bead is digested in 0.5 mL dilute nitric acid in the microwave oven. 0.5 mL concentrated hydrochloric acid is then added and the bead is further digested in the microwave at a lower power setting. The digested solution is cooled, diluted to a total volume of 4 mL with de-mineralized water, and analyzed by inductively coupled plasma atomic emission spectrometry against matrix-matched standards.

METHOD CODE	ELEMENT	SYMBOL	UNITS	SAMPLE WEIGHT (G)	LOWER LIMIT	UPPER LIMIT	DEFAULT OVERLIMIT METHOD
Au-ICP21	Gold	Au	ppm	30	0.001	10	Au-AA25
Au-ICP22	Gold	Au	ppm	50	0.001	10	Au-AA26

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ALS Minerals

FIRE ASSAY PROCEDURE

Ag-GRA21, Ag-GRA22, Au-GRA21 and Au-GRA22

PRECIOUS METALS GRAVIMETRIC ANALYSIS METHODS

SAMPLE DECOMPOSITION

Fire Assay Fusion (FA-FUSAG1, FA-FUSAG2, FA-FUSGV1 and FA-FUSGV2)

ANALYTICAL METHOD

Gravimetric

A prepared sample is fused with a mixture of lead oxide, sodium carbonate, borax, silica and other reagents in order to produce a lead button. The lead button containing the precious metals is cupelled to remove the lead. The remaining gold and silver bead is parted in dilute nitric acid, annealed and weighed as gold. Silver, if requested, is then determined by the difference in weights.

METHOD CODE	ELEMENT	SYMBOL	UNITS	SAMPLE WEIGHT (G)	DETECTION LIMIT	UPPER LIMIT
Ag-GRA21	Silver	Ag	ppm	30	5	10,000
Ag-GRA22	Silver	Ag	ppm	50	5	10,000
Au-GRA21	Gold	Au	ppm	30	0.05	1,000
Au-GRA22	Gold	Au	ppm	50	0.05	1,000

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ALS Minerals

GEOCHEMICAL PROCEDURE

ME- MS61

ULTRA- TRACE LEVEL METHOD USING ICP- MS AND ICP- AES

SAMPLE DECOMPOSITION

HF-HNO_3-$HClO_4$ acid digestion, HCl leach (GEO-4A01)

ANALYTICAL METHOD

Inductively Coupled Plasma-Atomic Emission Spectroscopy (ICP-AES)
Inductively Coupled Plasma - Mass Spectrometry (ICP-MS)

A prepared sample (0.25 g) is digested with perchloric, nitric, hydrofluoric and hydrochloric acids. The residue is topped up with dilute hydrochloric acid and analyzed by inductively coupled plasma- atomic emission spectrometry. Following this analysis, the results are reviewed for high concentrations of bismuth, mercury, molybdenum, silver and tungsten and diluted accordingly. Samples meeting this criterion are then analyzed by inductively coupled plasma-mass spectrometry. Results are corrected for spectral interelement interferences.

NOTE: Four acid digestions are able to dissolve most minerals; however, although the term *"near- total"* is used, depending on the sample matrix, not all elements are quantitatively extracted.

ELEMENT	SYMBOL	UNITS	LOWER LIMIT	UPPER LIMIT
Silver	Ag	ppm	0.01	100
Aluminum	Al	%	0.01	50
Arsenic	As	ppm	0.2	10,000
Barium	Ba	ppm	10	10,000
Beryllium	Be	ppm	0.05	1,000
Bismuth	Bi	ppm	0.01	10,000
Calcium	Ca	%	0.01	50
Cadmium	Cd	ppm	0.02	1,000
Cerium	Ce	ppm	0.01	500
Cobalt	Co	ppm	0.1	10,000
Chromium	Cr	ppm	1	10,000
Cesium	Cs	ppm	0.05	500
Copper	Cu	ppm	0.2	10,000
Iron	Fe	%	0.01	50
Gallium	Ga	ppm	0.05	10,000
Germanium	Ge	ppm	0.05	500
Hafnium	Hf	ppm	0.1	500

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ME- MS61

ELEMENT	SYMBOL	UNITS	LOWER LIMIT	UPPER LIMIT
Indium	In	ppm	0.005	500
Potassium	K	%	0.01	10
Lanthanum	La	ppm	0.5	10,000
Lithium	Li	ppm	0.2	10,000
Magnesium	Mg	%	0.01	50
Manganese	Mn	ppm	5	100,000
Molybdenum	Mo	ppm	0.05	10,000
Sodium	Na	%	0.01	10
Niobium	Nb	ppm	0.1	500
Nickel	Ni	ppm	0.2	10,000
Phosphorous	P	ppm	10	10,000
Lead	Pb	ppm	0.5	10,000
Rubidium	Rb	ppm	0.1	10,000
Rhenium	Re	ppm	0.002	50
Sulphur	S	%	0.01	10
Antimony	Sb	ppm	0.05	10,000
Scandium	Sc	ppm	0.1	10,000
Selenium	Se	ppm	1	1,000
Tin	Sn	ppm	0.2	500
Strontium	Sr	ppm	0.2	10,000
Tantalum	Ta	ppm	0.05	100
Tellurium	Te	ppm	0.05	500
Thorium	Th	ppm	0.2	10,000
Titanium	Ti	%	0.005	10
Thallium	Tl	ppm	0.02	10,000
Uranium	U	ppm	0.1	10,000
Vanadium	V	ppm	1	10 000
Tungsten	W	ppm	0.1	10,000
Yttrium	Y	ppm	0.1	500
Zinc	Zn	ppm	2	10,000
Zirconium	Zr	ppm	0.5	500

APPENDIX 8: DISCUSSION OF ASSAY QUALITY CONTROL

QUALITY ASSURANCE PROTOCOLS

Maple Gold has implemented and maintains a rigorous quality assurance/quality control (QA-QC) protocols that included the insertion of commercial certified reference materials (standards), field blanks, field duplicates, and preparation duplicates into the sample stream according to a pre-determined schedule (Table D). Table A is a summary of the various types of samples.

Table A: Summary of winter 2020 drill program samples

Sample Code	Sample Type	Count	Percentage of Total
Core	Core sample (1/2 or 1/4 split [field duplicate])	3,863	93.54
CDN-GS-P1A	Commercial certified standard (60 g packet)	36	0.87
OREAS 214	Commercial certified standard (60 g packet)	34	0.82
OREAS 251	Commercial certified standard (60 g packet)	32	0.77
Blank	Commercial white garden stone	82	1.99
Field Duplicate	Core sample (1/4 split)	42	1.02
Prep Duplicate	Sample split from crushed sample	41	0.99
Total		**4,130**	**100.00**

Standards

Gold standards that were used to monitor the accuracy of the laboratories were purchased from Canadian sources. Table B is a list of the gold standards used during the 2020 winter drill program. A standard in rotation was inserted every 48 samples.

Table B: Gold standards used during the 2020 winter program

Standard Name	Au Mean (ppm)	SD (ppm)	Manufacturer	Distributer	Duration of Usage
CDN-GS-P1A	0.143	0.008	CDNLabs	CDNLabs	Entire program
OREAS 214	3.030	0.082	OREAS	ASL	Entire program
OREAS 251	0.504	0.015	OREAS	ASL	Entire program

**CDNLabs = CDN Resource Laboratories Ltd, British Columbia, Canada*
OREAS = ORE Research & Exploration Pty, Victoria, Australia
ASL = Analytical Solutions Ltd, Ontario, Canada

Blanks

Blanks were used to monitor possible contamination and sample mix-ups. Blank material consisted of commercial white marble landscaping stone that is known to contain only background metal values. A blank was inserted every 48 samples.

Field Duplicates

Field duplicates, which were used to measure the precision and reproducibility of the analytical result of the core, were created by halving the half-sawn core, and submitting each quarter as a unique sample. A field duplicate was inserted every 96 samples.

Coarse (Prep) Duplicates

Coarse duplicates, also called coarse reject or prep (preparation) duplicates, which were used to measure the precision and reproducibility of the analytical result of the sample after the crushing stage, were split out by the laboratory on request. Maple Gold submitted an in-sequence tag in an empty numbered bag for this purpose. A prep duplicate was inserted every 96 samples.

Pulp Duplicates

Pulp duplicates, used to measure the precision and reproducibility of the analytical result of the sample after pulverization, were created as part of the laboratory quality control and assurance program. Pulp duplicates were included every 20 to 40 samples.

QUALITY ASSURANCE DISCUSSION

Control samples were vetted immediately after the results were received from the laboratories by using database queries that employed the rules described in Table C.

Assay results were imported into the database using GeoticLog. The results were immediately vetted using a series of queries performed in an Access database with an ODBC connection to the GeoticLog SQL Server database.

Table C: Rules for evaluating control samples

Sample Type	Rules
Standard	Failures: 1. If a result falls outside of three standard deviations from the mean value of the standard, it has failed. The samples between the nearest control samples with valid results will be re-assayed. 2. If the results of two consecutive samples fall outside of two standard deviations from the mean value of the standard, on the same side of the mean, then they have failed. The samples between the nearest control samples with valid results will be re-assayed. Exceptions: 1. If the failure is due to a sample mix-up, then the error is corrected, but no new assay is required. 2. If the failure occurs within a batch of insignificant results, then the samples may not be re-assayed.
Blank	Warning: If a result is greater than ten times the lower detection level for the element, then a warning is triggered. The cause for the warning is investigated, and corrective action is taken if required.
Field Duplicate	If a duplicate pair deviates widely from the ideal, then the reason must be investigated, and corrected if necessary.

Any issues, such as sample mix-ups or true analytical failures were investigated, and corrective actions were applied where necessary.

There were no QC problems during the winter 2020 phase of drilling.

Table D: QA/QC Sample Insertion Frequency Chart

Ending	SampType	Ending	SampType	Ending	SampType	Ending	SampType	Ending	SampType
8	GS-P1A	208	OREAS 214	408	OREAS 251	608	GS-P1A	808	OREAS 214
25	FDU	225	FDU	425	FDU	625	FDU	825	FDU
40	FB	240	FB	440	FB	640	FB	840	FB
56	OREAS 251	256	GS-P1A	456	OREAS 214	656	OREAS 251	856	GS-P1A
73	CDU	273	CDU	473	CDU	673	CDU	873	CDU
88	FB	288	FB	488	FB	688	FB	888	FB
104	OREAS 214	304	OREAS 251	504	GS-P1A	704	OREAS 214	904	OREAS 251
121	FDU	321	FDU	521	FDU	721	FDU	921	FDU
136	FB	336	FB	536	FB	736	FB	936	FB
152	GS-P1A	352	OREAS 214	552	OREAS 251	752	GS-P1A	952	OREAS 214
169	CDU	369	CDU	569	CDU	769	CDU	969	CDU
184	FB	384	FB	584	FB	784	FB	984	FB
200	OREAS 251	400	GS-P1A	600	OREAS 214	800	OREAS 251	1000	GS-P1A

Eg. Sample V902256 is a standard GS-P1A; sample X456840 is a field blank

OCD = Original coarse duplicate; **CDU** = duplicate of previous sample; eg. Sample R125473 is a coarse duplicate of R125472

OFD = original sample; **FDU** = duplicate of OFD; each sample is 1/4 core; eg. Sample Z337025 is a field duplicate of Z337024

FB = field blank

Standards and Blanks

The control charts for standards CDN-GS-P1A, OREAS 214, and OREAS 251 are shown as Figures 1 to 4.

The results for CDN-GS-P1A (Figure A) were scattered about the mean, mostly within one standard deviation of the mean. Approximately 69% of the results were below or equal to the mean. The average of all results has a difference from the certified mean of -1.4%. Throughout time, there was a slight negative trend.

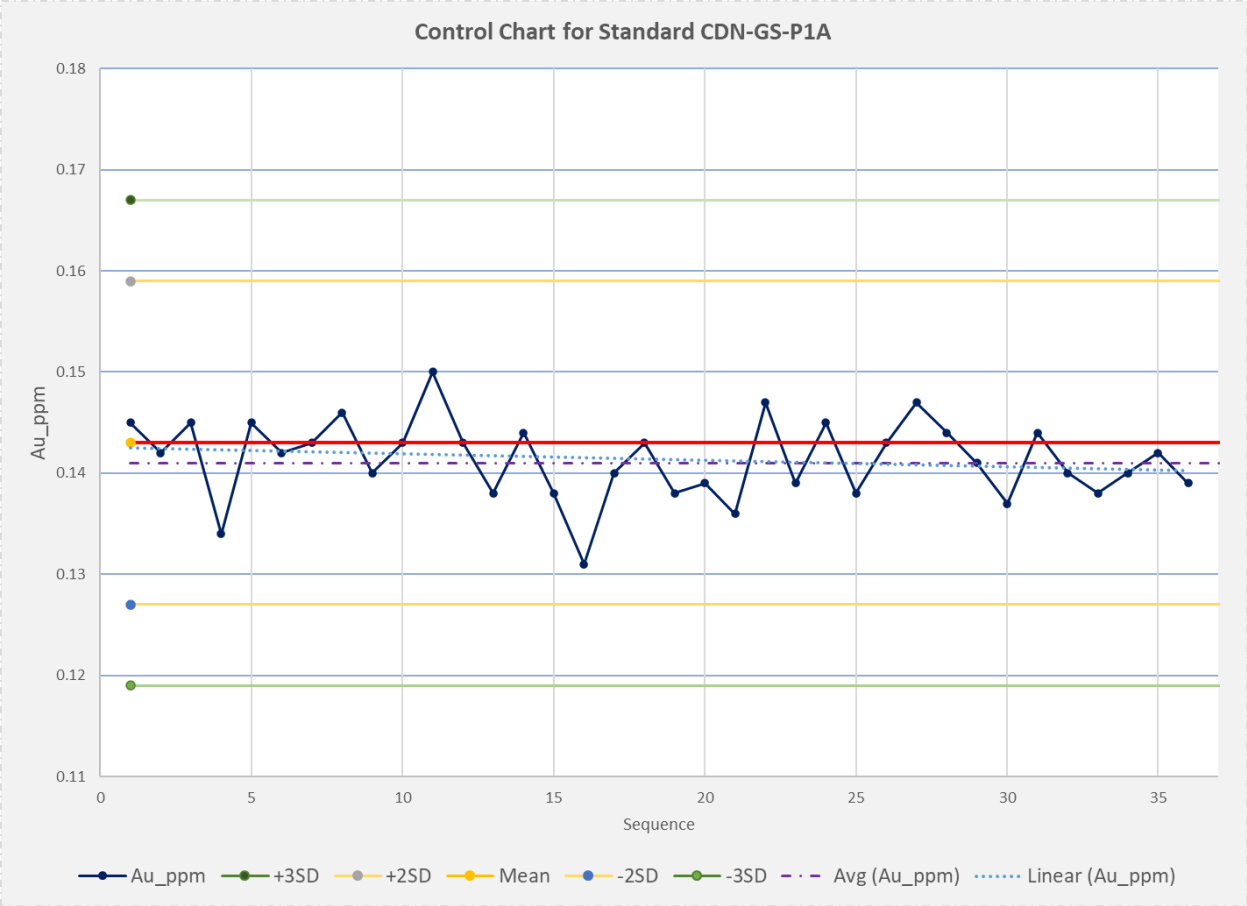


Figure 15: Control chart for standard CDN-GS-P1A

There were no analytical failures of the 36 CDN-GS-P1A samples.

The results for OREAS 214 (Figure 2) were scattered about the mean, most commonly within one standard deviation of the mean. The average of all results has a difference from the certified mean of -0.3%. Throughout time, there was a moderate positive trend; however, if the first two low outliers are excluded, the neutral trendline centered on the mean has a slight positive trend.

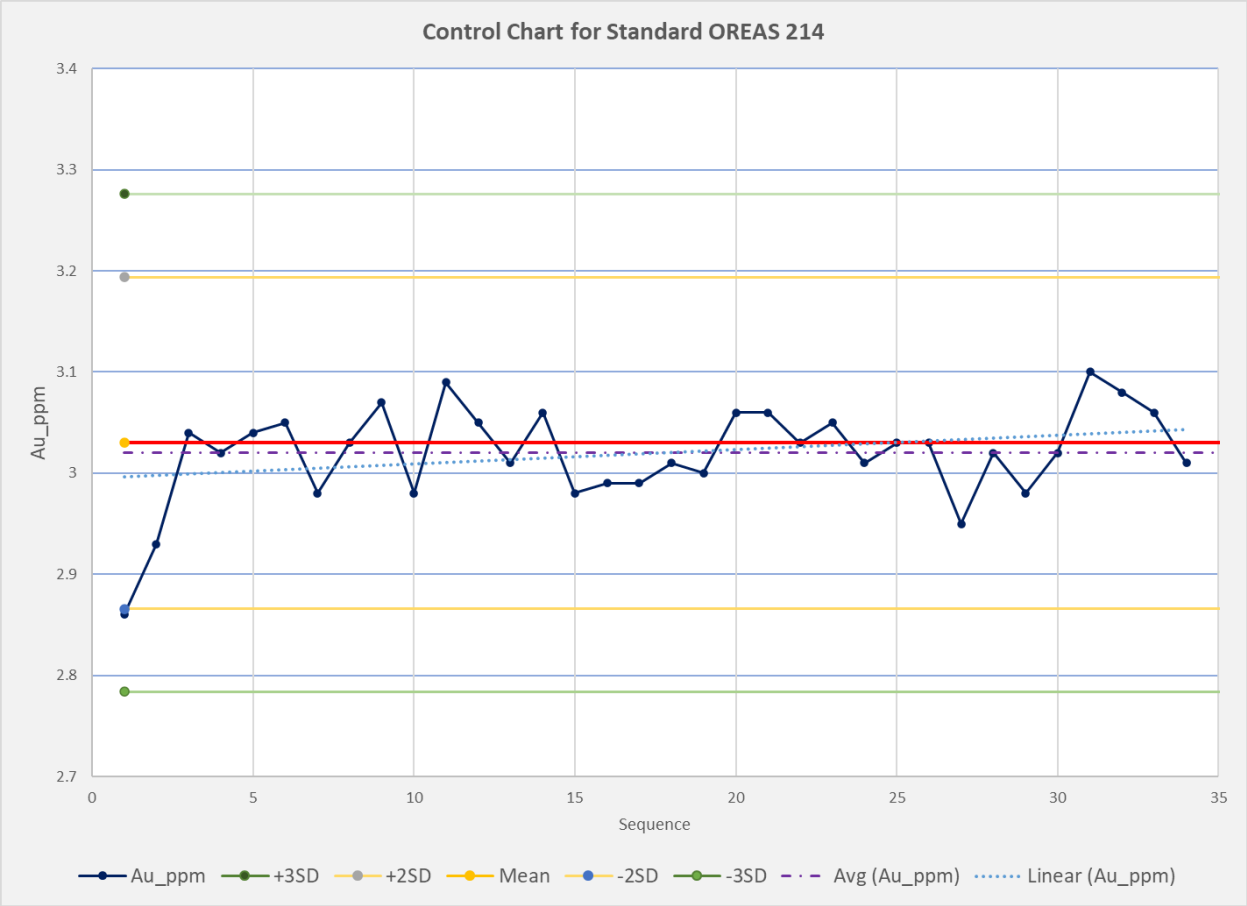


Figure 16: Control chart for standard OREAS 214

Standard OREAS 214 had no failures for the 34 samples analyzed.

Of the results for OREAS 251 (Figure 3), 69% were above the mean, usually within one standard deviation of the mean. The average of all results has a difference from the certified mean of 0.99%. The trend was negligibly negative.

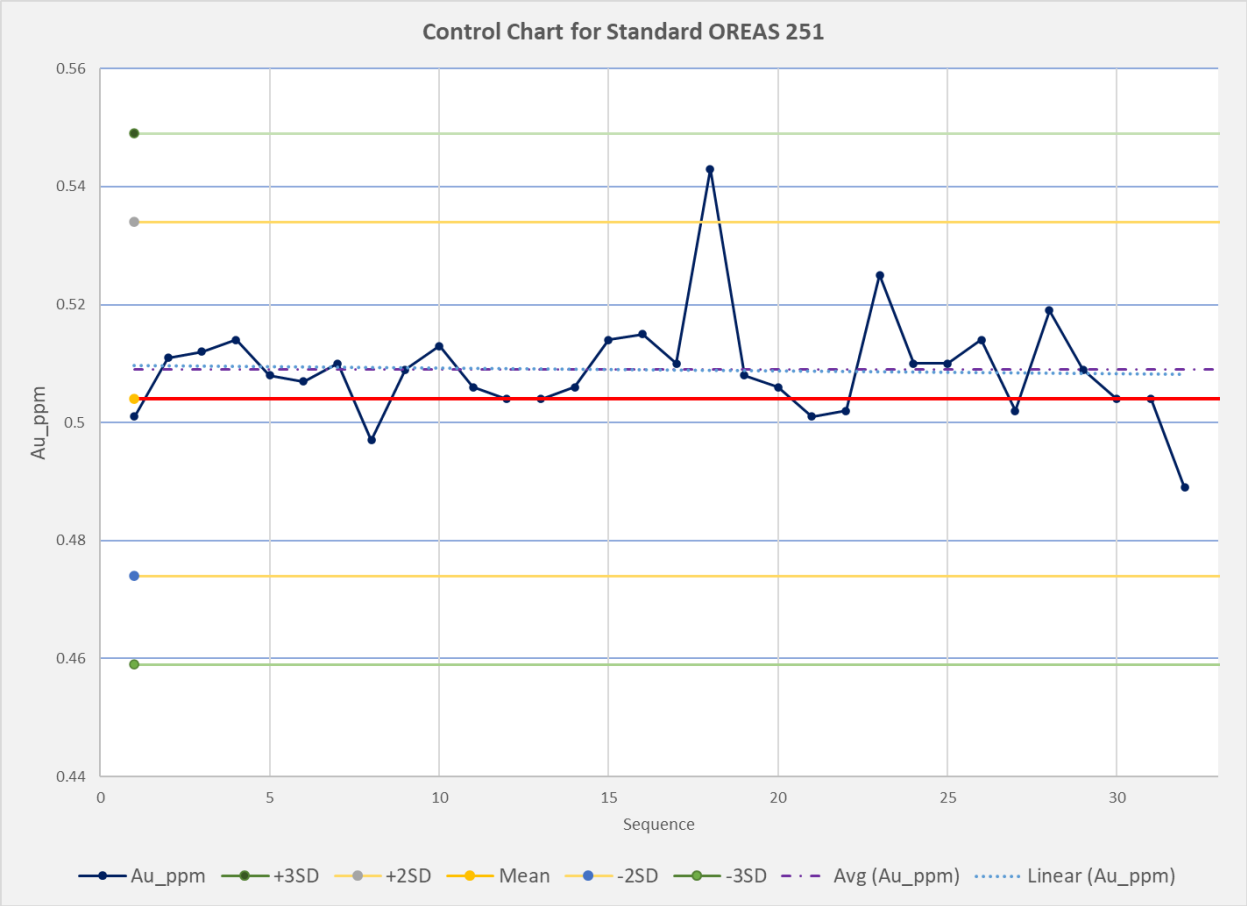


Figure 17: Control chart for standard OREAS 251

There were no analytical failures of the 32 OREAS 251 samples.

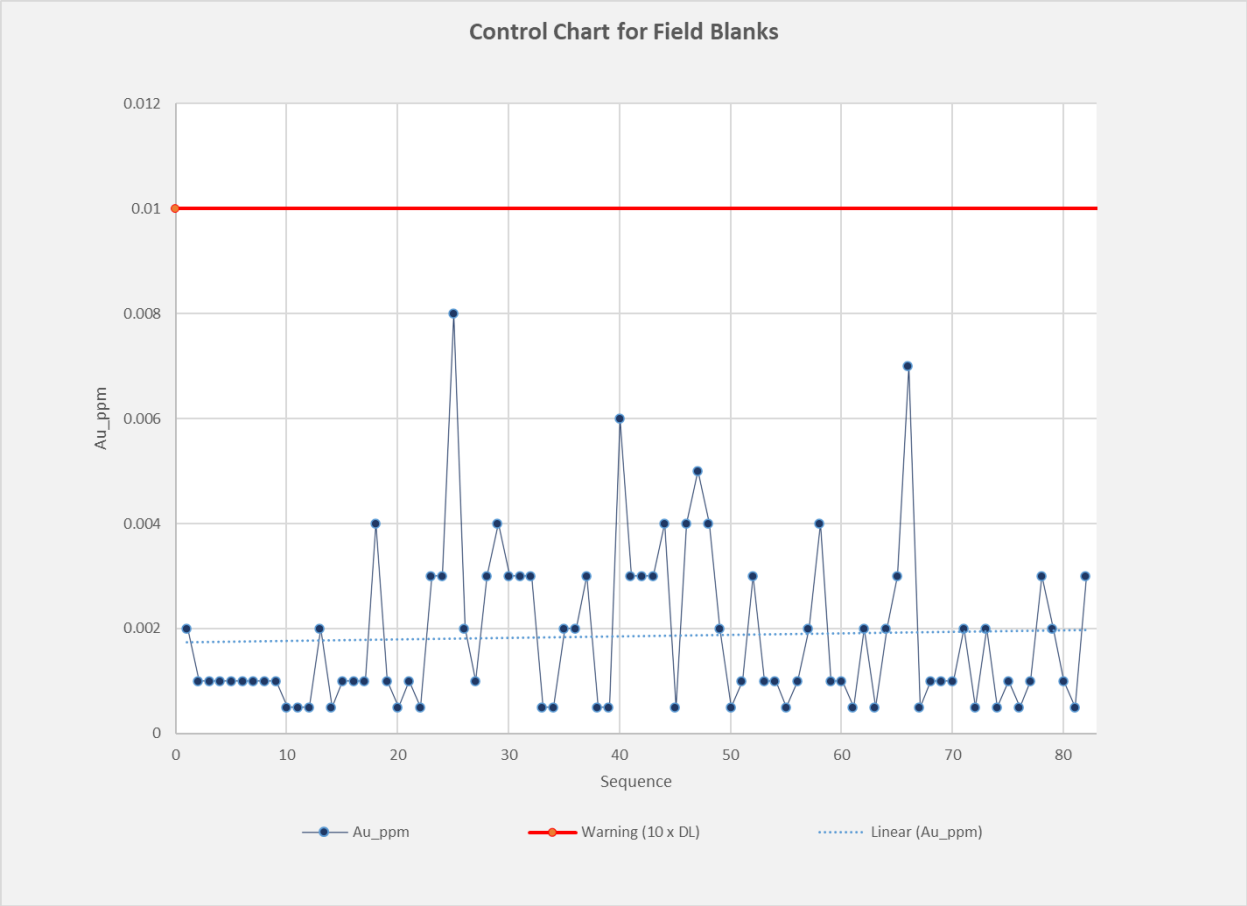


Figure 18: Control chart for blanks

The results for all 82 blank samples fell below ten times the detection limit.

Field Duplicates

The XY charts (Figures 5 and 6) comparing the original versus the field duplicate value of 42 duplicate pairs widespread scatter about an idealized trend. The results are marginally biased toward the original sample. The coefficient of determination, or R^2, value of 0.91 is reasonable, but shows that there is variability between the two samples, especially at higher gold concentrations.

A study of the mean value versus the percent absolute difference (Figure 7) between paired values indicates an overall degree of precision of about 38% between field duplicate pairs at 0.30 ppm Au, which suggests a nugget effect. However, as there are few values at the higher concentration, too many duplicates less than or near detection limits, and there are not enough pairs to construct a meaningful Thompson-Howarth chart, the precision of 38% is questionably high.

Additional duplicates should be selected from rocks that look mineralized or that fall within expected mineralized zones. These samples are in addition to the systematic duplicates collected.

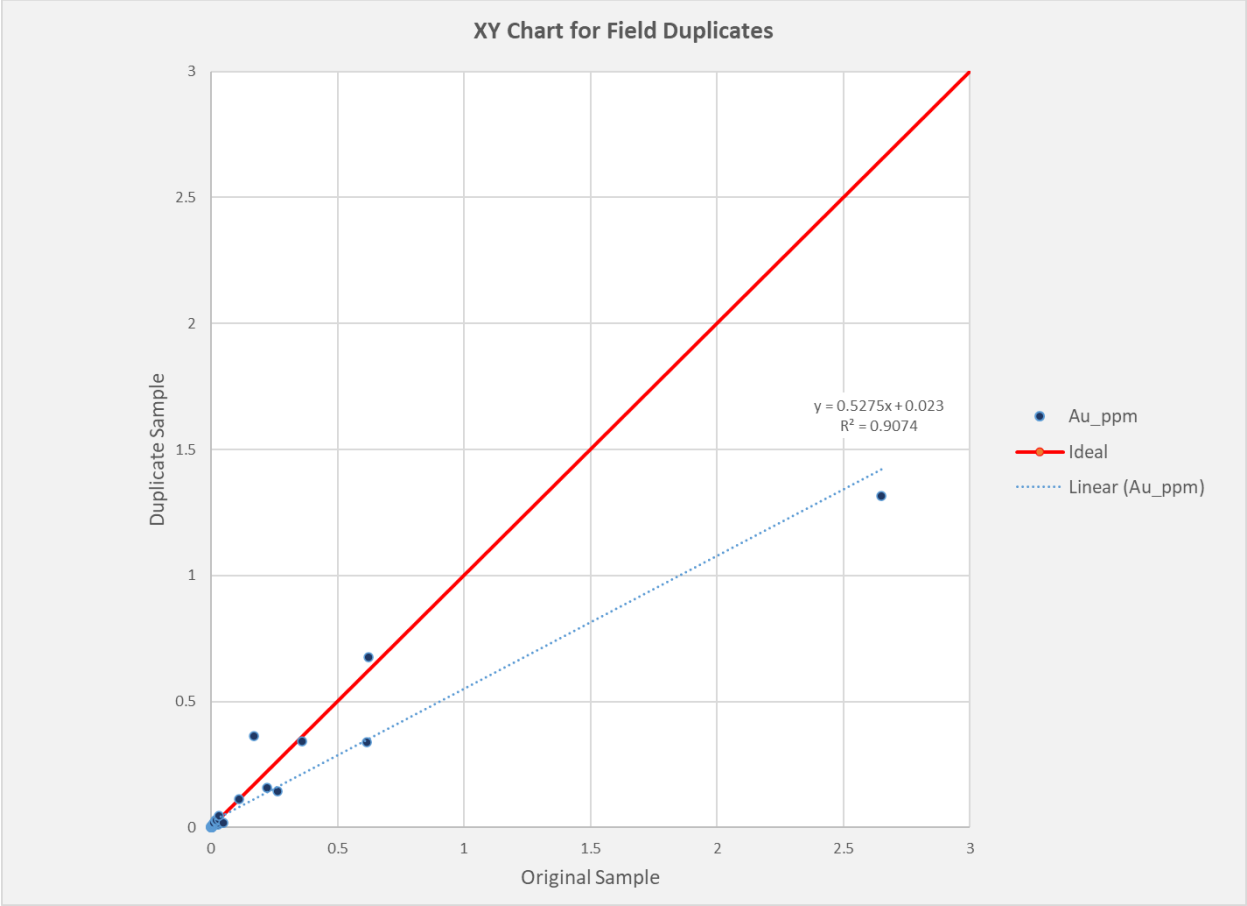


Figure 19: XY chart for field duplicates - full range

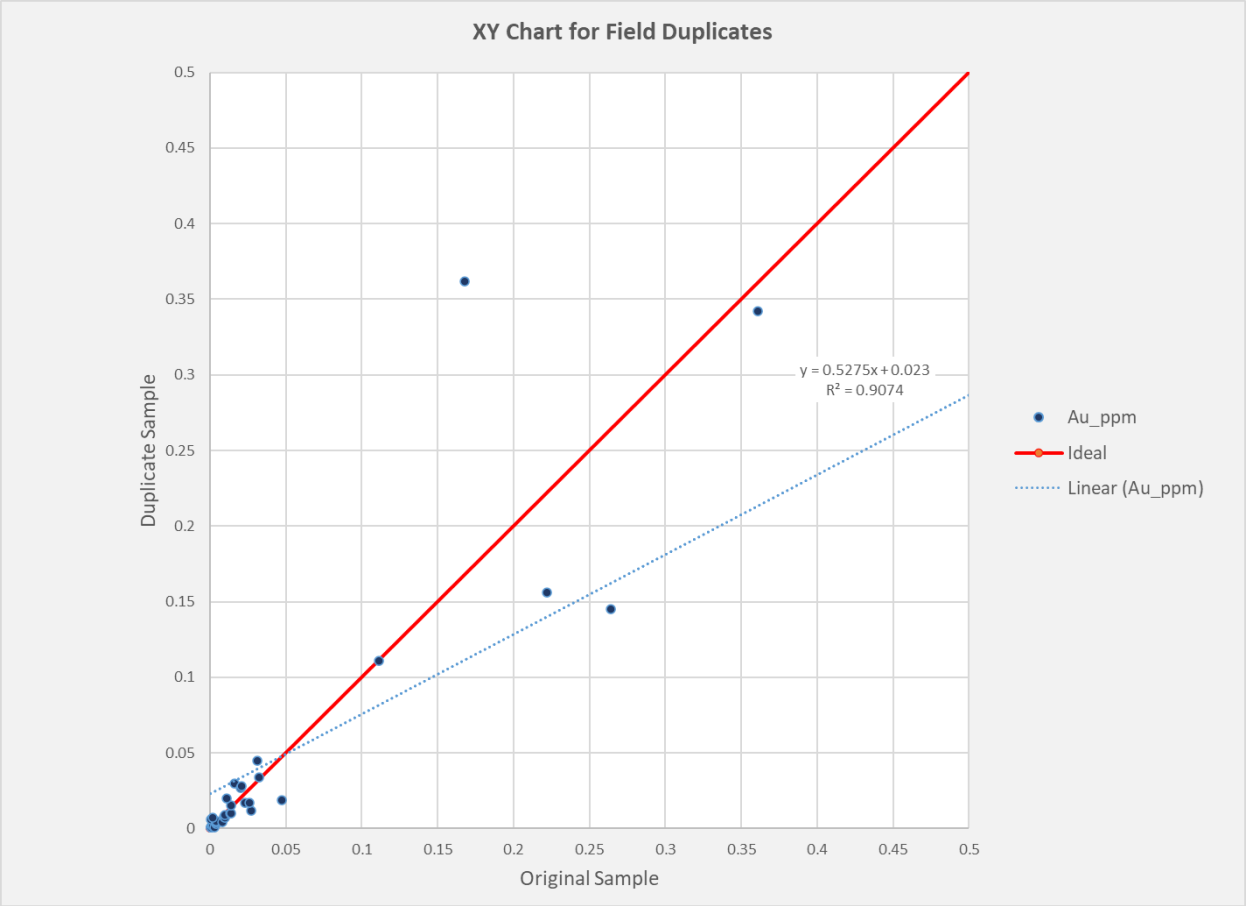


Figure 20: XY chart for field duplicates – <=0.5 ppm

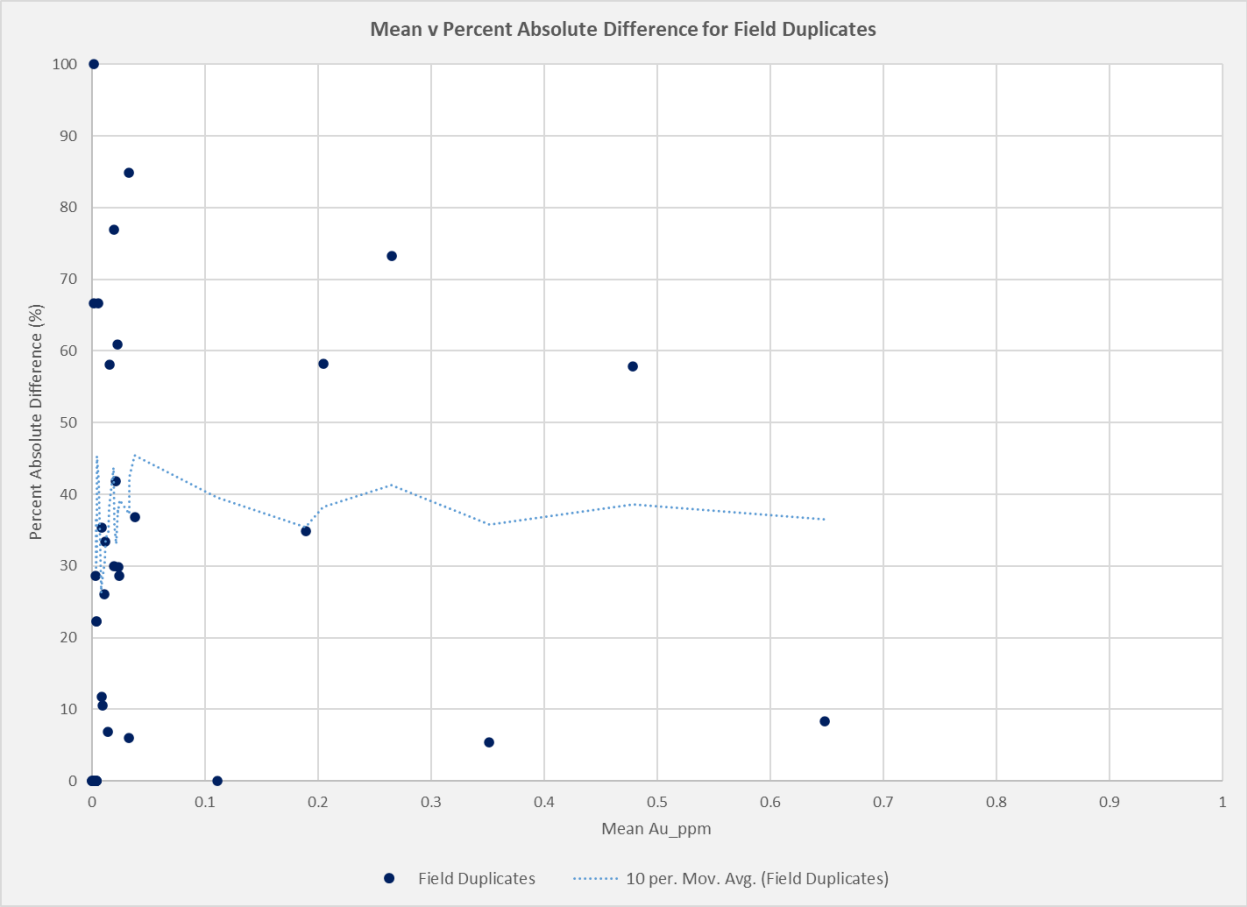


Figure 21: Precision chart for field duplicates

Preparation Duplicates

The XY charts (Figures 8 and 9) comparing the original versus the preparation/coarse (**prep**) duplicate value of 41 duplicate pairs shows narrow scatter about an idealized trend. The results are biased toward the duplicate sample. The coefficient of determination, or R^2, value of 0.98 is good.

A study of the mean value versus the percent absolute difference (Figure 10) between paired values indicates an overall degree of precision of about 33% between prep duplicate pairs by 0.25 ppm Au. However, as there are few values at the higher concentration, too many duplicates less than or near detection limits, and there are not enough pairs to construct a meaningful Thompson-Howarth chart, the precision of 33% is questionable, especially for prep duplicate pair that generally have better precision.

In addition to the systematic duplicates collected, additional duplicates should be ordered from rocks that look mineralized, fall within expected mineralized zones, or return results in varying gold concentrations.

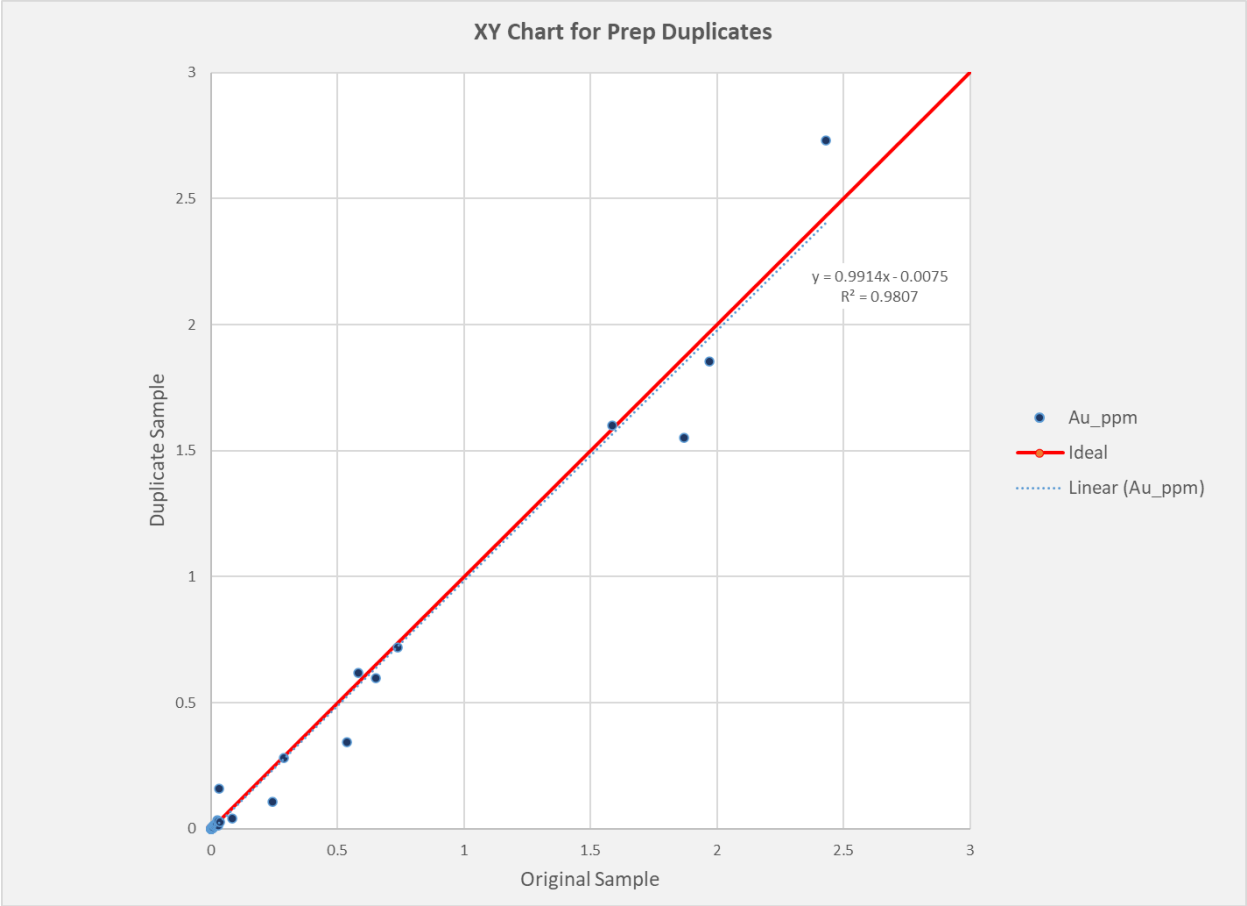


Figure 22: XY chart for prep duplicates – full range

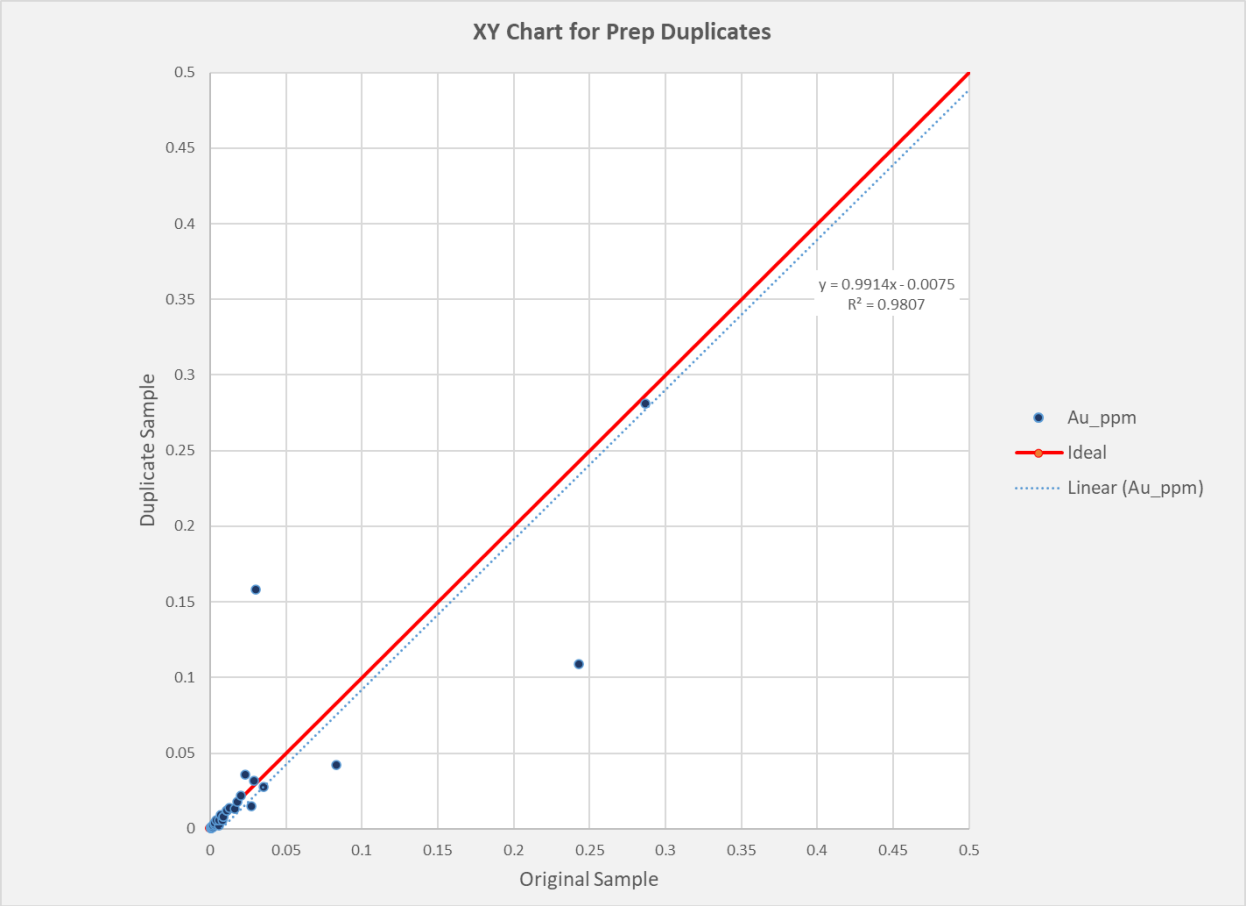


Figure 23: XY chart for prep duplicates – <=0.5 ppm

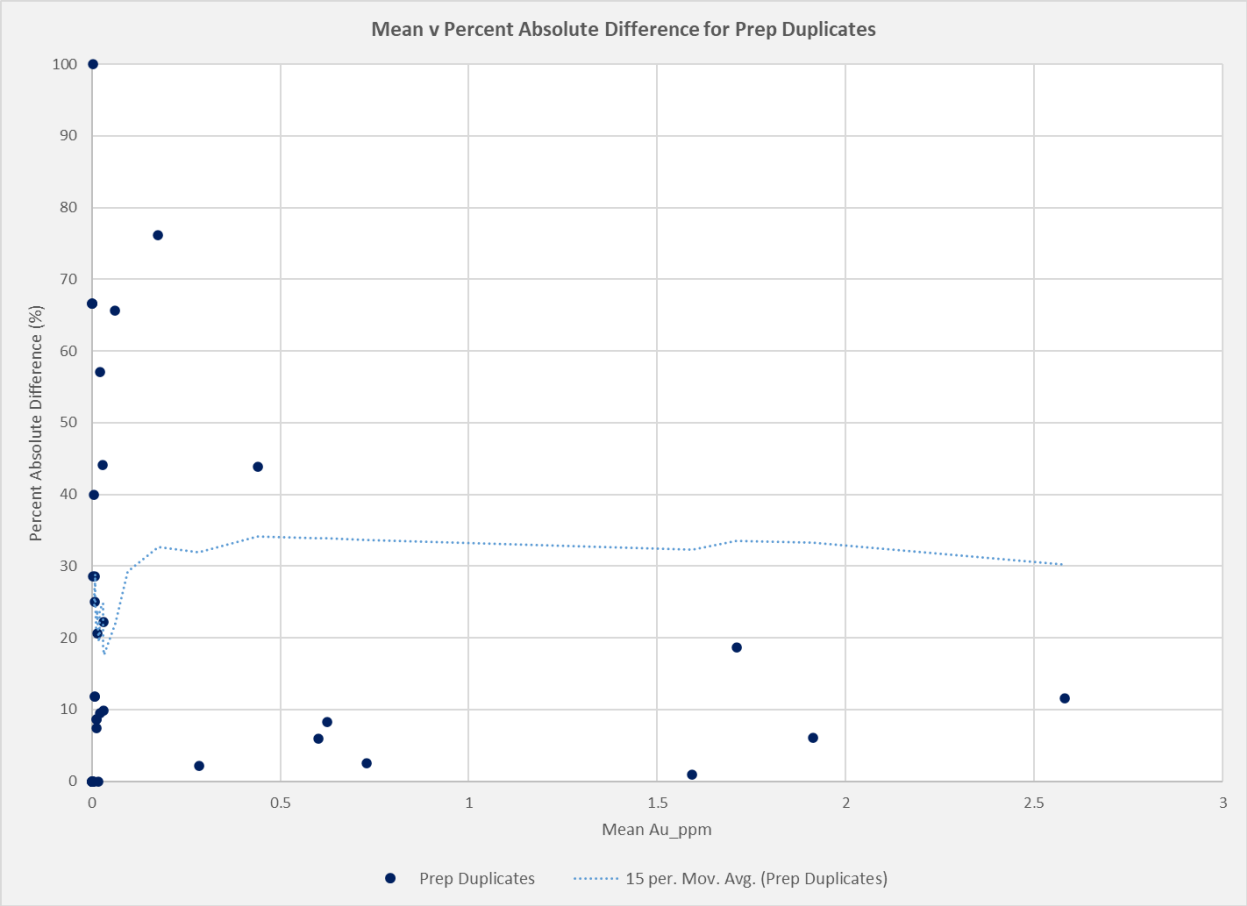


Figure 24: Precision chart for prep duplicates

Pulp Duplicates

Pulp duplicates were not part of the field quality assurance program; however, the lab reported values for duplicate pulp analyses. These results were compiled and assessed

The XY charts (Figures 11 and 12) comparing the original versus the pulp duplicate value of 159 duplicate pairs shows tight scatter about an idealized trend. The results are negligibly biased toward the duplicate sample. The coefficient of determination, or R^2, value of 0.998 is near ideal.

A study of the mean value versus the percent absolute difference (Figure 13) between paired values indicates an overall degree of precision of about 7% between prep duplicate pairs by 0.50 ppm Au.

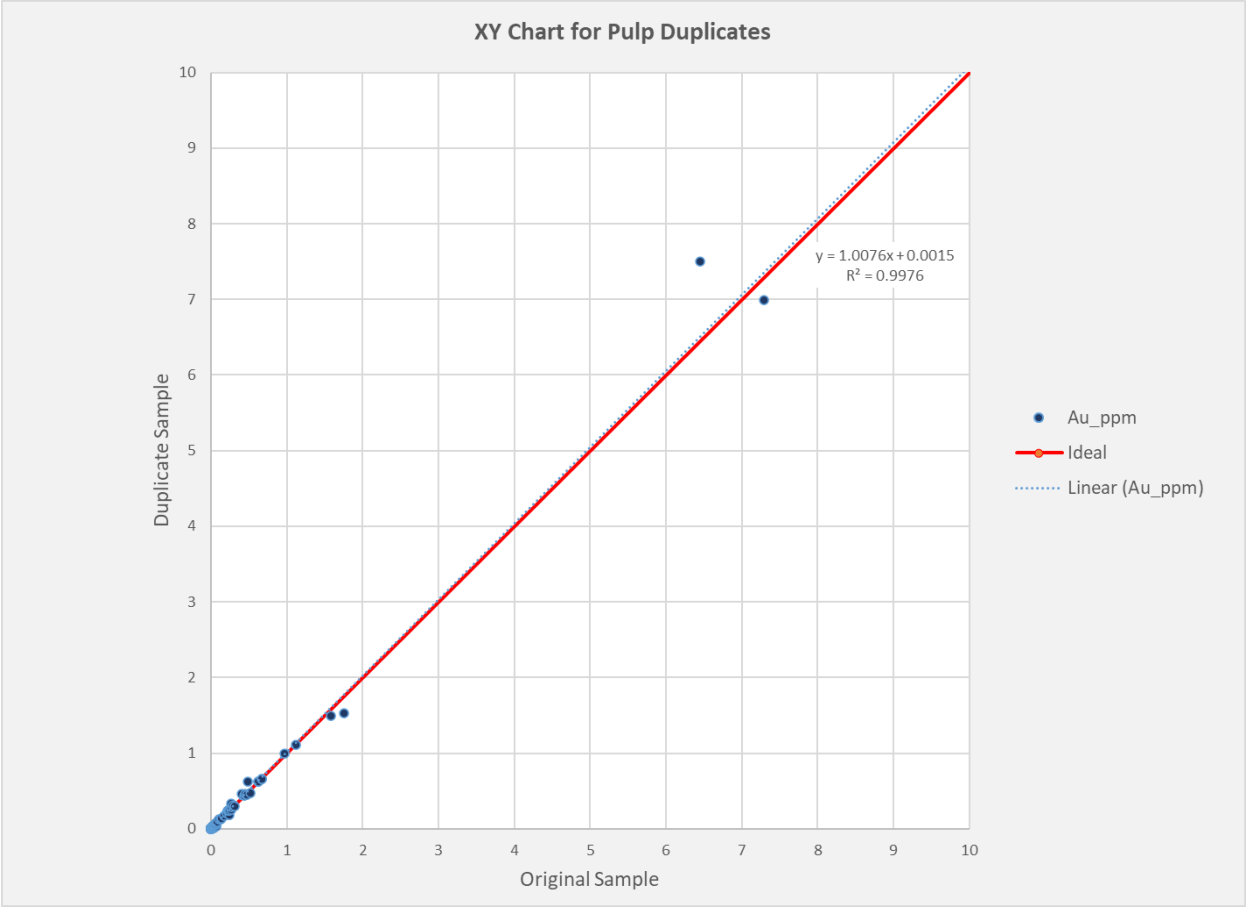


Figure 25: XY chart for pulp duplicates – full range

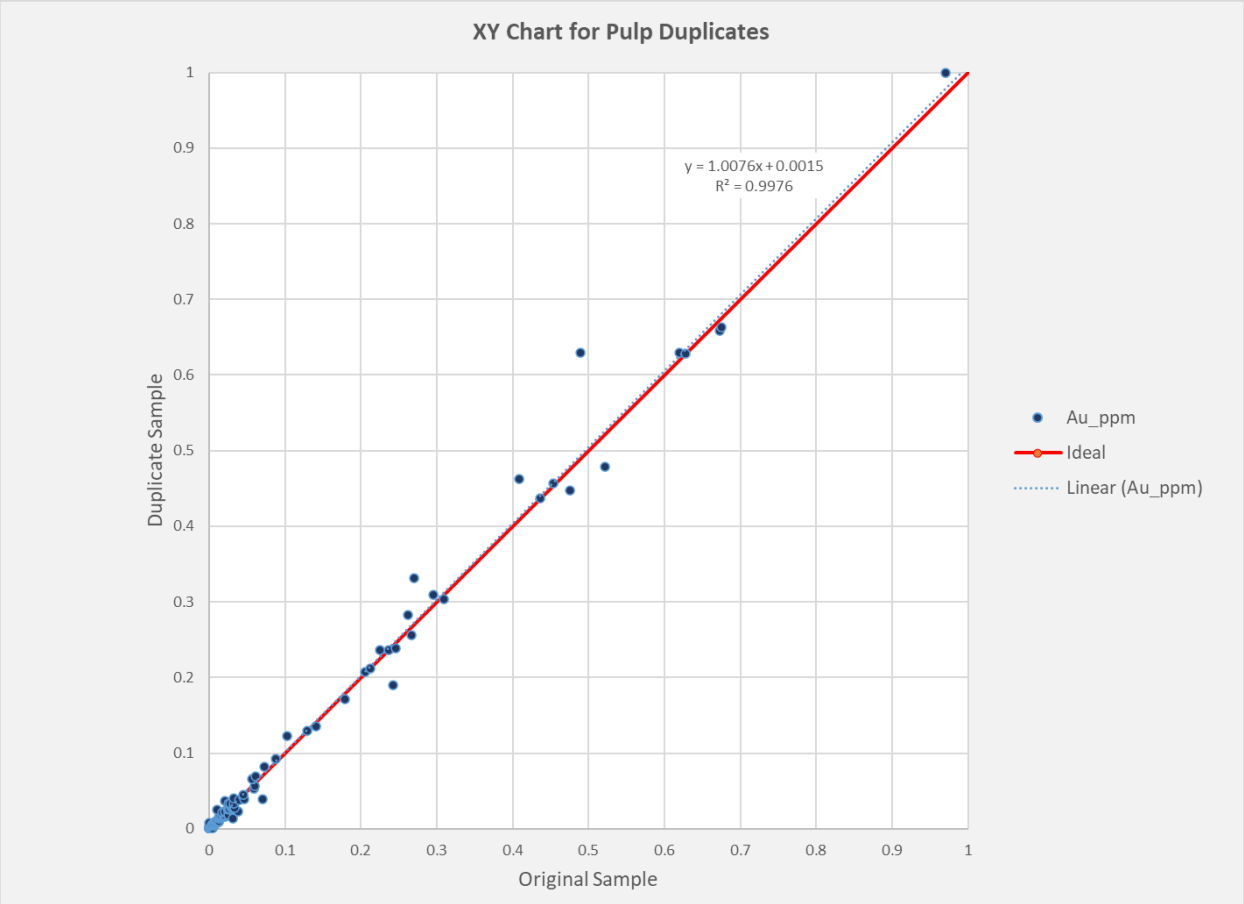


Figure 26: XY chart for prep duplicates – <=1.0 ppm

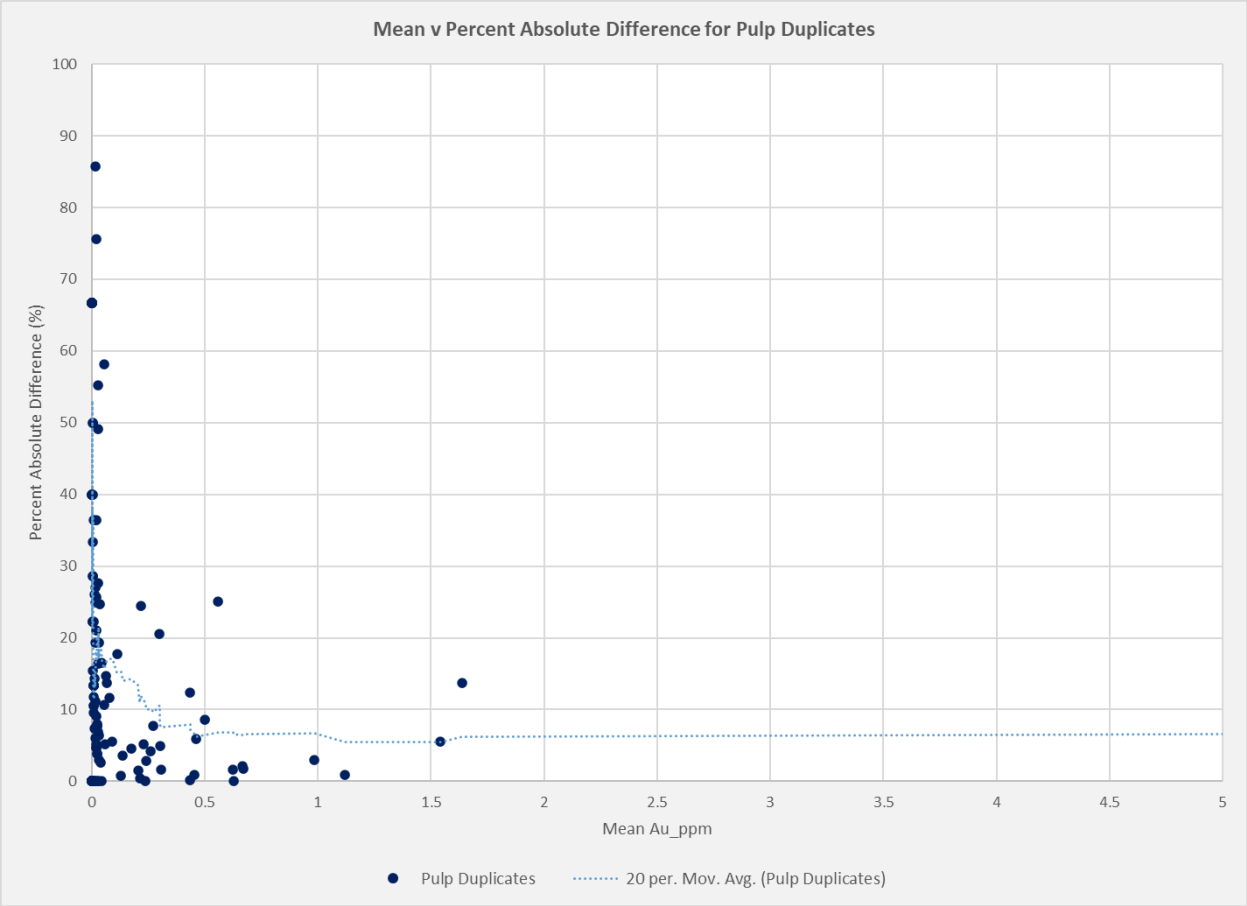


Figure 27: Precision chart for pulp duplicates

APPENDIX 9: DOUAY PROTOCOLS

SPOTTING THE COLLAR LOCATION

- Locate collar location using handheld GPS unit (UTM NAD83)
- Make location with a picket marked with PropID, Az, Dip, and planned Length
- Set foresights and backsights
- Show drill foreman each location

PAD PREPARATION AND RECORD KEEPING

- Once access and pad had been created:
- Reset collar location picket, foresights and backsights
- Update records
- Check often to understand the status of your next site

ALIGNING THE DRILL

DOWNHOLE SURVEY

- Taken by driller as hole is being drilled
- Written into timesheets and onto slips of paper
- Geologist enters into GeoticLog Downhole Survey table
- At the end of hole csv archive, and loaded into special Geotic table later

Tests are to be taken after the casing at the following intervals:

1. 6 m after the casing
2. 9 m
3. 9 m
4. 15 m
5. And every 30 m ongoing

The acceptable deviations were set as one degree per 100 meters drilled for both azimuth and dip.

Monitor this activity, and if the holes are appearing to deviate, we can re-evaluate the distances.

COLLAR SURVEY

- Collect collar location using handheld GPS (UTM NAD83, Zone 17)
- Update records
- Survey Method is Handheld GPS until superseded by superior method (eg. DGPS)

CORE TRANSPORT

- Core boxes are covered with an inverted core box, wrapped with a band, and placed in the snowmobile sled
- Boxes are transported by snowmobile to the truck, where they are placed into the truck box
- Boxes are delivered to the core shed by the driller at the end of the shift
- The core is being placed on horses in the main logging area
- If the core is NOT delivered, then go get it

SHIFT REPORTS AND DOWNHOLE SURVEY SLIPS

SHIFT REPORT

- The Shift report book with the day and night shift reports for the previous day are placed by foreman in the appropriate wall folder in the dry by 7:00 am
- The geologist responsible for the drill reviews the timesheets, makes any corrections or comments, and signs them – MGM retains the yellow copies
- The geologist enters the information for the timesheets into a tracking spreadsheet stored on server
- The geologist puts the yellow copies of the timesheets in the appropriate binder, newest records on top, in the office

DOWNHOLE SURVEY SLIPS

- The slips for the downhole surveys are brought in along with the core at the end of each shift and are given to the geologist
- The geologist checks that the information written in the timesheets matches the downhole survey slip
- The geologist makes and appropriate corrections onto the downhole survey slip (eg. correct date, time, negative dip, etc.)
- The geologist enters the downhole information into GeoticLog and the Quick Log
- The geologist puts the yellow copies of the downhole survey slips into the appropriate file folder
- When the hole is complete, the geologist clips all the records for a single hole together

QUICK LOGS

- The geologist prepares a Quick Log every morning
- The geologist sends the Quick Log to F. Speidel by 10:00 am every day; if there are multiple holes in process, have ONE geologist send all of the Quick Logs
- The Quick Logs are located and saved on server

BOX MARKING AND INVENTORY

- Uncover the boxes
- Place boxes in order, in groups of four, onto the core logging tables
- Check that the blocks are in order, in the right place, and that none is duplicated or missing
- Put black mark in box in block location
- Measure and mark start and end meterages for boxes, using block markers as reference
    - A soft pencil or a lumber pencil is a better and more permanent marker than a Sharpie
- Record start and end meterages for all boxes onto a paper form, and then enter into the CoreBoxes.xlsx spreadsheet stored on server
- Write the HoleID and box number on the end of the box, for easy reference later
- When the hole is complete, load the box information into GeoticLog
- At the end of the drill program, send the spreadsheet to Service Exploration so they can print the metal tags
- Affix metal tags to the ends of the core boxes

METERAGE MARKING

- Using a white wax pencil, draw a line and the distance on the core marking one-meter long intervals
- Draw the white line and write the distance even where there are meterage blocks

GEOTECHNICAL LOGGING

Geotechnical logging should be a fast procedure. To introduce precision where is not required does not improve the product. As a geotechnical engineer once whote: “It is better to be roughly right than precisely wrong.”

Record geotechnical information directly into GeoticLog OR into a spreadsheet to be imported

- The geologist should do his own geotechnical logging or frequently check when it’s done by technicians
- Geotechnical measurements are recorded for each 3 meter run
- **Recovery** – how much core is in the box; it should be 3.0 m or very close
- **RQD** – a measurement of the quality of the rock; the sum of the pieces of core >10 cm: only NATURAL breaks are considered
- **Joint Count**: A count of REAL joints or fractures

About RQD

- A measurement of the quality of the rock in situ NOT a measurement of what we have done to the rock – we really wreck the rock when we drill and transport it
- MOST breaks in a rock are created by the drilling and handling of the core

- At Douay, except when passing through the faults, the RQD should be at or close to 3.0 m

Machine/Human Breaks vs Natural Breaks

- Natural breaks are unfermented fractures with rust or other oxides
- Broken cemented joints are not natural breaks
- Unnatural breaks are often perpendicular to core, have rough surfaces, rounded surfaces (drilling), and have no coatings

Considerations

- If you measure 2.98, then record 3.00 – you've seen how the core comes out of the tube – to be precise to two decimal places is not appropriate
- Check that the block is in the correct place: if one run measures 3.10 and the other 2.9, and there is a 10 cm piece of core at the margin, move the core or the block
- Tell the driller (or foreman) if there are too many short runs, or if the core is excessively broken, or if the core is misaligned in the boxes; if they don't now there are problems, then they cannot be corrected

GEOLOGICAL LOGGING

Good descriptions with quantified and qualified observations

Lithology
Alteration
Mineralization
Structure

ORIENTED STRUCTURE

- Oriented structure measurements are taken with the IQ logger device. All computers have the software installed and a successful connection to the device. Note: make sure the Bluetooth is off in all computers except the one using the IQ logger, as the device will automatically connect to the last computer it was connected to.
- Measurements to be taken are indicated by the geologist with a blue marker, outlining the plane of the structure to be measured (preferably, ~ 0.5cm adjacent to the structure in order to avoid losing any detail by writing over it).
- The geologist will use his/ her own discretion to choose which structures are important and how many measurements will be taken. Structures to be measured include contacts between lithologies, shear, veins, foliation, faults, and fractures. Not all fractures must be measured, as they are abundant, but the geologist may choose to measure any trends in fracture orientation, especially if they appear to be mineralized.
- Preferably, the geologist will write a brief description of the structure in the 'Notes' tab.

- In case the structure is 'wiggly' or changes directions, a general trend of the structure will be measured. If the geologist is unsure of the measurement, he/she will check the 'QA flag' box, to indicate the uncertainty.
- The file should be exported at the end of the day and saved on server. The file will be renamed as IQ_DO-18-204_50-100 (example).
- Geologists are responsible for oriented structure measurements. Certain technicians (those who have geological background) are proficient in measuring structures outlined by the geologist. However, the geologist is responsible of indicating QA and noting down a brief description.

DESCRIPTION/SUMMARY

- Update GeoticLog (Information/Description) with any information about Drilling, or whatever we want someone to know about this whole.
- State the expectations for the hole, make a summary of the hole [like in the weekly reports], and state if the expectations for the hole were met.

SPECIFIC GRAVITY

- Select at least one sample per 6 meters
- 10 cm whole core usually works well

We use SG interchangeably with density; however, density is an SG that has been corrected by temperature.

ARCHIMEDES METHOD – ELECTRONIC BALANCE WITH A BOTTOM HOOK

Requirements:

- Platform
- Container for water
- Fashion a harness out of baling wire or similar

Method

- Measure the mass of a completely dry core sample suspended in air
- Measure the mass of the sample suspended in water
- Enter information into a corresponding spreadsheet stored on server

(Note: when I do this, I usually obtain the mass of all the dry samples, and then do the mass of all the suspended in water samples. It is quicker if one does not switch from task to task. If you use the top platform for the in air mass measurements, then you must account for the mass of the harness when suspended in air. [use tare])

Note: THE MASS OF THE SAMPLES SUSPENDED IN WATER MUST BE LESS THAN THE MASS OF THE SAMPLE IN AIR. IF IT IS NOT, THEN REDO THE MEASUREMENTS.

MPP

These are the procedures to take MPP measurements.

- The geologist is responsible for the MPP even if a technician makes the measurements.
- MPP measurements are taken every 0.5 m – please start on a whole or a half meter distance (eg. 0.5 and 1.0 +; set up the auto-increment correctly.
- Please ensure that there is a few seconds wait between measurements. If measurements are taken too quickly, the MPP will not have enough time to process the data and will write a '?' next to the data, potentially rendering inaccurate values (there may also be other reasons why a '?' is obtained besides a value).
- All computers are equipped with the 'Windows Mobile Device Center' software used to export the data. The software should automatically begin when the device is connected the computer. The files will be found by the path: Connect without setting up your device → File Management→ Browse the contents of your device → Juniper Systems Archer 2 (or ':\') → My Documents → MPP.
- The datafiles must be correctly named and placed on the server every day. The location for the MPP files is H:\1 Exploration\Datafiles_MPP
- Geologists are responsible for importing this data into GeoticLog.

Naming Convention

The HoleID in the filename must exactly match the HoleID as it is in the database.

The HoleID in the header must exactly match the HoleID as it is in the database AND the HoleID as it is in the file name.

Example: **MPP_DO-18-203_43-137m.txt**

SCIP

These are the procedures to take SCIP measurements.

- SCIP measurements will be taken by the technicians.
- When making the cupric sulphate solution, it is necessary that the technicians wear all protective equipment, including gloves, visor, and lab coat.
- The sample should be dry, as water will increase the conductivity. If necessary, a hair dryer is available to dry the sample.

- The hole ID, depth and length of the piece of core is noted in the Archer system. Measurement settings are set to standard values: 10 measurements (system automatically averages them), 0.3mV and 0.5mA.
- A measurement takes 3-5 minutes, depending on whether the sample is wet, too short/long, or has a resistivity above 50,000 kOhms (this will affect the chargeability values).
- Measuring will be done systematically every 3m and wherever the geologist requests it. Geologists will request SCIP measurements wherever there is a mineralized zone or an increase in pyrite (or other sulfides) abundance. When there is an increase in drilling production, the measurements will be taken every 6m, to optimize the technicians' time.
- The working station is set up so that a given sample will be analyzed for XRF and immediately afterwards will be analyzed for SCIP. Ideally, this sample will be analyzed for density as well.
- The sample will be marked 'IP' with a blue marker.
- All computers are equipped with the 'Windows Mobile Device Center' software used to export the data. The software should automatically begin when the device is connected the computer. The files will be found by the path: Connect without setting up your device → File Management→ Browse the contents of your device → Juniper Systems Archer 2 (or '\') → My Documents.
- The files must be exported to the computer at the end of every day. The location for the SCIP files is: H:\1 Exploration\Datafiles_SCIP.
- Files will follow the naming convention of SCIP_DO-18-204_50-100. The file is saved as a 'gdd' file, in order to view the data, it can be opened in Excel by clicking 'All files', selecting the folder, and selecting the delimiter type as 'Fixed with'.

XRF

These are the procedures to take XRF measurements.

- XRF measurements will be taken by the technicians.
- The XRF settings are pre-set in the software and can be changed in the computer, if necessary. All computers may NOT be equipped with the XRF software, but it can be easily installed by downloading it from H:\1 Exploration\Reflex-Documentation\XRF_Vanta.
- The sample must be dry, short enough to fit in the "BBQ" and must be stabilized with a wooden block (if it rolls during the measurements, it will stop analyzing and will have to restart).
- The hole ID and depth is recorded in the XRF.
- Every measurement takes approximately 5 minutes. Two tests are done and the XRF calculates an average automatically. The XRF automatically gives the measurement a file name, which should be recorded, as every day the XRF will begin at measurement #1.
- XRF measurements will be taken systematically every 3, 6 or 9m and as requested by the geologist.
- The working station is set up so that a given sample will be analyzed for XRF and immediately afterwards will be analyzed for SCIP. Ideally, this sample will be analyzed for density as well.
- The sample will be marked 'XRF' with a blue marker, specifically on the location where it was analyzed.

- The data is exported to H:\1 Exploration\Datafiles_XRF. Exporting is done according to the 'XRF Users Guide' found in H:\1 Exploration\Reflex-Documentation.
- Naming convention for the XRF files will be: XRF_DO-18-204_50-100.

SAMPLING AND QUALITY ASSURANCE

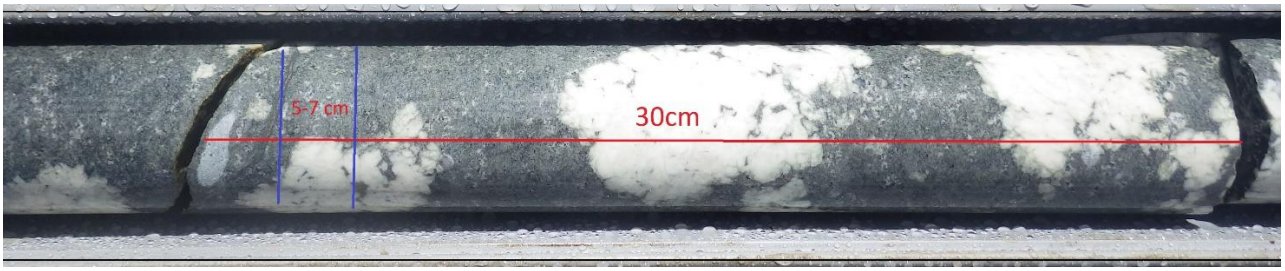
- Samples are selected based on lithology, alteration, and mineralization.
- Samples are between 0.3 and 1.0 m, with exception (eg. a 1.1 m sample rather than a 1.0 and a 0.1 m sample). The typical sample length is 1.0 m, unless lithology, alteration, or mineralization require otherwise. The minimum sample length is 0.30 m.
- Samples are clearly marked on the core with start and end points using a red marker.
- Write sample tags – fill out books, and write the From-To on the tags that go into the boxes.
- The sample tag is placed at the BEGINNING of the sample.
- Include the control samples according to the chart.
- The sample tag for the control sample is placed in the box next to the regular sample, but with a notation (eg. FD, CD, OREAS 214)
- Field duplicates (two ¼ core samples labeled sequentially) are marked with a blue ribbon at the beginning of the sample.
- Coarse duplicates (a regular ½ core sample followed by an empty bag with the next sequential sample tag – the lab makes this sample) is marked with an orange ribbon at the beginning of the sample.
- If it helps to identify the standards and blanks with ribbons or crayon marks, please implement (and document).
- All sample tags and ribbons should be visible (and readable) in the core photograph.
- The easier it is for the core cutters, the better.

Note: The information below is part of the more detailed document.

Appropriate sampling and quality assurance/quality control procedures are to ensure the best possible confidence in resultant mineral resource and reserve estimates. The quality of an estimate is dependent on the quality of the data used.

SAMPLE SELECTION AND CORE MARKING

Samples should reflect lithology, alteration, and mineralization.
The typical sample length is 1.0 m, unless lithology, alteration, or mineralization require otherwise.
The minimum sample length is 0.30 m.



SAMPLE TAGS AND BOOKLETS

Sample booklets are a permanent record of sampling. It is critical that they are labeled and stored correctly.

Sample booklets contain 50 pages, each with four tags with a sample number and bar code. The stub remains in the booklet, two portions are stapled into the corebox, and one portion is placed into the sample bag.

Every stub that remains in the booklet is labeled with HoleID and From-To, and the type of control sample, if applicable.

The sample sequence is written on the lower left corner of the face. The HoleID and Start-End of sampling is written on the top left portion of the face. The booklet cover is trimmed to the edge of size of the stubs. The booklets are safely stored.

Figure A: How to fill out a sample tag book – cover

Figure B: How to fill out a sample tag book – regular sample

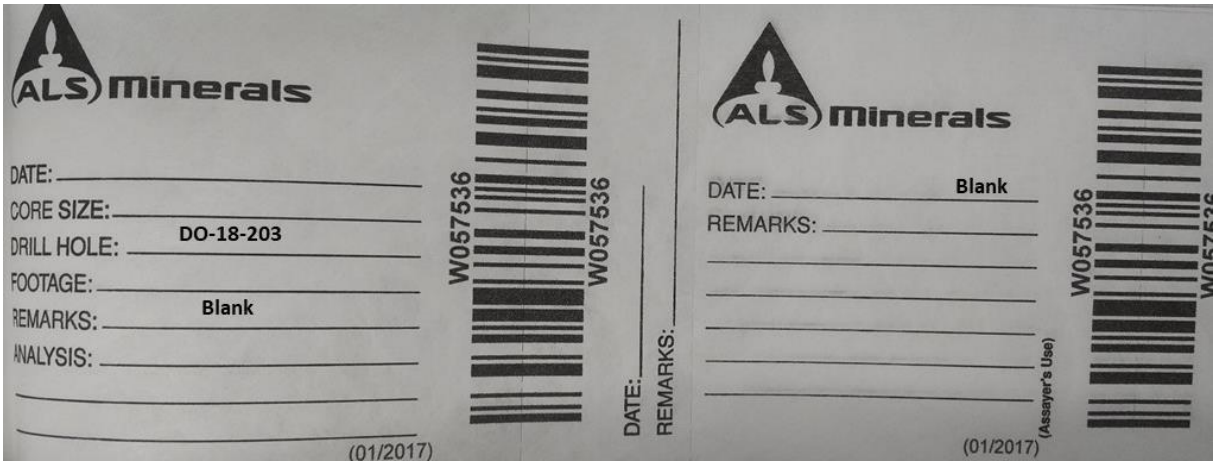


Figure C: How to fill out a sample tag book – control sample

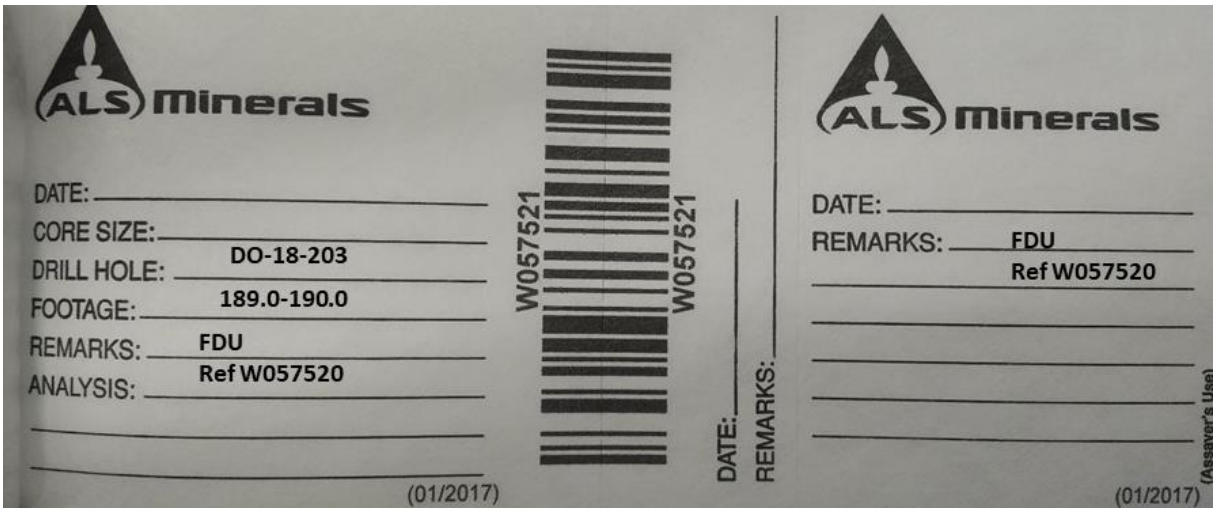


Figure D: How to fill out a sample tag book – duplicate sample

QUALITY ASSURANCE AND QUALITY CONTROL

Quality assurance is a proactive approach to ensuring the integrity of the analytical results from core samples.

This occurs before samples are sent to the laboratory, and includes the systematic insertion of control samples, such as standards, blanks, or duplicates, into the sample stream. Ideally, these control samples are blind to the laboratory; however, in all cases, these samples have a different look, feel, and weight when compared to the regular core samples.

Quality control is a crucial reactive process that involves analyzing the data returned from the laboratory.

CONTROL SAMPLES

Certified Reference Material

Certified reference materials (**CRM**), or standards, measure the accuracy and reliability of the laboratory at certain concentrations. These are materials purchased from a qualified laboratory. Ideally, the composition and grade of the standard reflects that of the property.

Standards are pulverized rock, usually packaged into 60 g allotments.

Blank

Field blanks are samples that are barren of mineralization. They test for contamination at the laboratory or for sample mix-ups.

White decorative garden stone is used as a blank. Blank CRMs can also be purchased.

Duplicates

Duplicates measure the precision, or reproducibility, of a result at different stages of preparation.

Field Duplicates check the quality of the mineralization, and help to identify any nugget effect. They are created by halving one half of core to create two quarter core samples that are analyzed independently.

Coarse (or prep) duplicates are created after the core has been crushed, and check for homogeneity at this stage. The laboratory creates this duplicate on request.

Pulp duplicates test the precision of a pulverized sample. The laboratory automatically runs a pulp duplicate every 10 samples.

Typically, the precision improves from field to coarse to pulp samples.

Control samples are inserted according to the Sample Insertion Frequency Chart (Table 1).

Table 1: Sample Insertion Frequency Chart

Ending	SampType	Ending	SampType	Ending	SampType	Ending	SampType	Ending	SampType
8	GS-P1A	208	OREAS 214	408	OREAS 251	608	GS-P1A	808	OREAS 214
25	FDU	225	FDU	425	FDU	625	FDU	825	FDU
40	FB	240	FB	440	FB	640	FB	840	FB
56	OREAS 251	256	GS-P1A	456	OREAS 214	656	OREAS 251	856	GS-P1A
73	CDU	273	CDU	473	CDU	673	CDU	873	CDU
88	FB	288	FB	488	FB	688	FB	888	FB
104	OREAS 214	304	OREAS 251	504	GS-P1A	704	OREAS 214	904	OREAS 251
121	FDU	321	FDU	521	FDU	721	FDU	921	FDU
136	FB	336	FB	536	FB	736	FB	936	FB
152	GS-P1A	352	OREAS 214	552	OREAS 251	752	GS-P1A	952	OREAS 214
169	CDU	369	CDU	569	CDU	769	CDU	969	CDU
184	FB	384	FB	584	FB	784	FB	984	FB
200	OREAS 251	400	GS-P1A	600	OREAS 214	800	OREAS 251	1000	GS-P1A

Eg. Sample V902256 is a standard GS-P1A; sample X456840 is a field blank

OCD = Original coarse duplicate; **CDU** = duplicate of previous sample; eg. Sample R125473 is a coarse duplicate of R125472

OFD = original sample; **FDU** = duplicate of OFD; each sample is 1/4 core; eg. Sample Z337025 is a field duplicate of Z337024

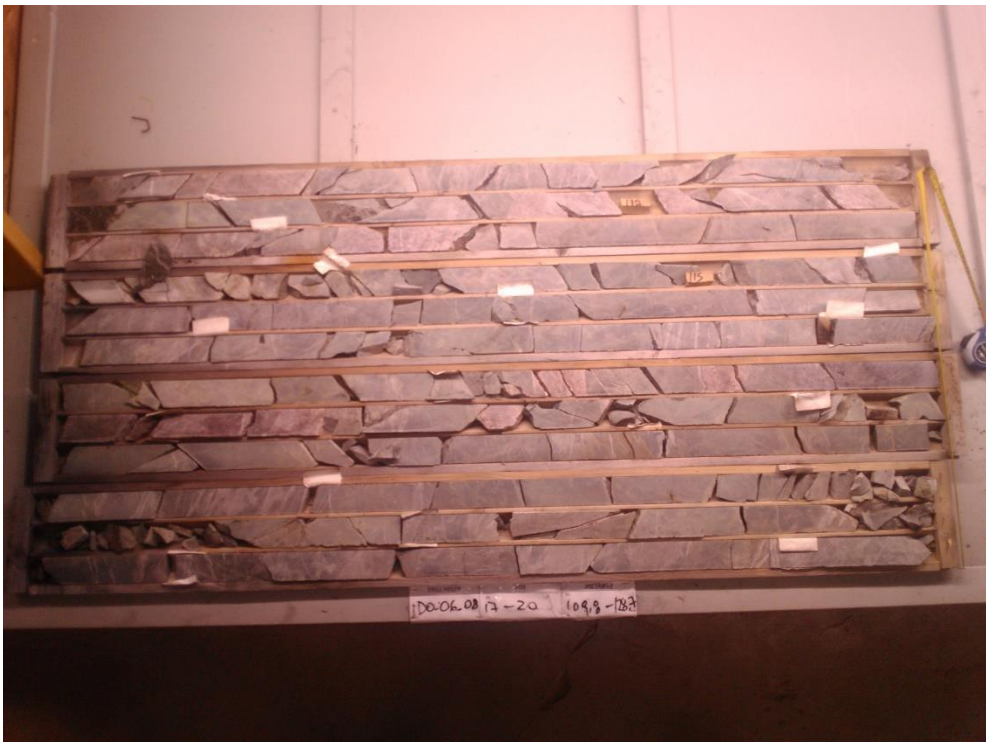
FB = field blank

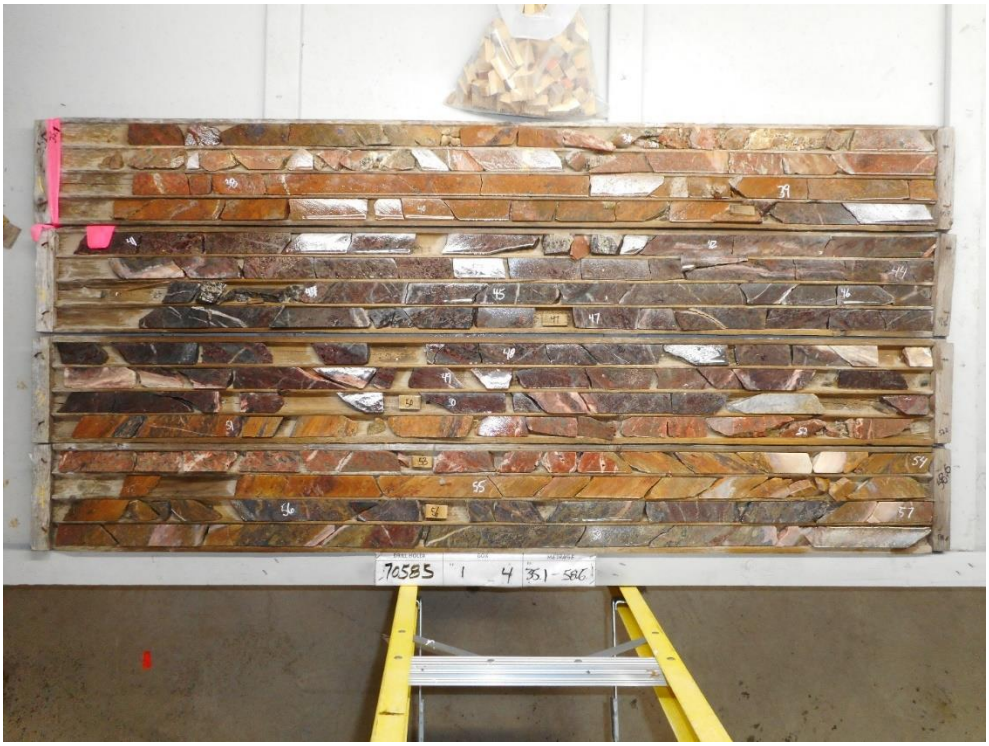
CORE PHOTOGRAPHY

Good quality photographs are a crucial component of every drilling program. They serve as a permanent record of the core that is useful for a variety of geological, geotechnical, or administrative tasks.

Core is photographed after the boxes have been marked, the hole has been logged, and all the sample locations have been marked.

The geologist that logged the hole must check that the photographs are of good quality before the core is sent to the cut shed. If the photographs are not good, then they must be re-taken.





PHOTOGRAPH

Core is photographed in sets of four left-aligned boxes.

CROPPING

Crop each photograph to the dimensions of the boxes.

After

NAMING CONVENTION

- Wet: HoleID_xxx.xx-xxx.xx_W.jpg
- Dry: HoleID_xxx.xx-xxx.xx_D.jpg
- Closeup: HoleID_Close-up_xxx.xx.jpg

Eg. **DO-18-203_045.90-050.70_W.jpg**

Rules:

1. The HoleID must exactly match how it is recorded in the database.
2. There must not be gaps or overlaps in From-To information.
3. The last pictures do NOT need EOH in the filename.
4. The first From must exactly match the first logged From in lithology and geotechnical tables.
5. The last To must exactly match the hole length.

Why?

If the holes are named carefully and consistently, then the HoleID, From, To, State (W/D) and filename can be extracted using a simple command. This information can be directly loaded into the Geotic database, or stored as hotlinks/hyperlinks in other programs (eg. GEMS).

CORE CUTTING AND SAMPLING

Foot, hearing, and eye protection are mandatory.

CUTTING

- Move core boxes into cutting room and place in in order in racks.
- Place three boxes of core onto the yellow table.
- Start saw (someone needs to write a procedure for start up and maintenance of the units – in addition to the manual).
- Align core in cutting tray with red/blue line up, cut, and replace back into core box.
- Cut several boxes of core.

SAMPLING

Write SampleID on poly bags in advance; use the SampleID exactly as it is on the tag (eg. W057001 not 57001).

Match tags number to the bag number.

Tear two small tags with barcode from the sample tag in the box and place both in the bag; a large tag stays stapled in the box.

Put the far half of the core into the bag – break longer pieces to fit; break core over the floor, not over the other core boxes.

Standards - Tag will say OREAS 214, OREAS 251 or CDN-GS-P1A

- Collect regular sample using the first tag.
- Place two small tags into a bag and add the foil bag for the appropriate standard into the bag; wipe off the OREAS label.

Blanks – Tag will say Blank or FB

- Collect regular sample using the first tag.
- Place two small tags into a bag and add the poly bag with the white stone into the bag as is.

Field Duplicate

- Tag will say FD or FDU or Field Duplicate.
- Cut far half of core into two quarters.
- Place the first tag in the first bag, and make one sample from the first quarter portion.
- Place the second tag into the next bag and make the other sample from the second quarter portion.

Coarse Duplicate

- Tag will say CD or CDU or Coarse Duplicate.
- Place the first tag into the bag and collect a regular sample from the far side of the core.
- Place the second tag into a bag and then seal the empty bag.

SAMPLE SHIPPING

FILLING SHIPPING BAGS

- Cut and bagged samples are placed in order in a line.
- Label a white fibre bag with MGM-Douay, SampleFrom-SampleTo, and Bag of XX.
- Load approximately six samples into a white fibre bag – do not overfill or make heavy bags.
- Seal with a plastic locking strap.
- Affix a security tag.
- Record information on the form on the clipboard.
- Move filled fibre bags into a secure/restricted area, such as the logging room, until they can be transported.

PREPARING THE SHIPMENT FORM

- Use the ALS sample submittal form at H:\1 Exploration\Analytical\Forms\General Sample Submittal Form.pdf.

- Prepare the sample submittal form.
- Email the submittal form and a complete sample list with requested procedures to Richard Deschambault with copies to Fred Speidel and Even Stavre.
- Call the delivery company or deliver samples to ALS in Val-d'Or.
- MGM's client service representative is Richard Deschambault: Richard.Deschambault@alsglobal.com, +1-819-825-0178 Ext. 23
- Invoice, Certificates, Datafiles are sent to Fred Speidel (fspeidel@maplegoldmines.com)
- Datafiles (request CSV and XLS with QAQC), certificate, and QAQC Certificate are sent to Vivian Park (vpark@maplegoldmines.com)

CHECKLIST

Spot collar location and set sights

Re-spot collar location and sights once pad has been prepared

Align drill

Downhole survey at every 30 m as hole being drilled

Collar location survey at the end of hole

Check block markers in coreboxes for position and proper numbering

Assemble core into a continuous tube according to scribe line (if oriented) or best fit

Mark 1-meter intervals along core using white marker

Measure and mark start and end of coreboxes

Record corebox inventory

Geotechnical log - recovery, RQD, and fracture count (geologist!!)

Measure MPP at 0.5 m intervals

XRF, SCIP, SG measurements are taken at every 6 or 9 m

Geological log – lithology, alteration, mineralization, general structure, oriented structure

Mark samples

Write tags

Photograph coreboxes in sets of four in dry and wet

Cut and bag samples

Ship samples

Update corebox inventory map

Prepare and affix metal tag to coreboxes (we send spreadsheet to Service Exploration) when tags received, typically at the end of the drill program

DRILL INSPECTIONS

- Pictures of the spotted hole should be taken showing the state of the site prior to drilling. They should be saved on the server in a "drill site inspection" folder in a sub-folder, which has the corresponding drillhole number.
- When drilling is ongoing, the drill should be inspected often, in a random manner, by a geologist. A drill inspection form should be filled during the visit. The filled in form should be scanned and saved on server. When necessary, photos should accompany this inspection. Ideally, the foreman is present for this inspection and must sign the form when finished (if the foreman is not present, the driller should complete the inspection).
- Once drilling is finished and the site has been emptied, the drill site must be inspected for any garbage, oil, diesel, or any other objects or contaminants left behind. The inspection form is located on server. It should be scanned and saved on server in a folder with a corresponding drillhole number, accompanied by photos.

GEOTIC LOG

The following tasks must be completed in real time – that is, as they happen, or shortly after….not days later, minutes or hours later.

LEARNING ABOUT A HOLE

Consult the InformationProposal table in GeoticLog for the details.

SPOTTING A HOLE

Once the hole has been spotted, update the information for the hole on the Projects tabs.

1. Change the Attribute to Implanté (Projects>DDH>Attribute [picklist])
2. Enter the Spotted coordinates and setup information (Projects>Coordinates>Spotted [type])

STARTING A HOLE

Once the hole has started, update the information on the Projects tabs.

1. Change the Attribute to ‘En forage’ (Projects>DDH>Attribute [picklist]).
2. Change the State to ‘Drilling’ (Projects>DDH>State [picklist]).
3. Type in the HoleID (Projects>DDH>Name [type]).
4. Update the Contractor (Projects>InformationDrilling>DrillCo [picklist]).
5. Update the RigID (Projects>InformationDrilling>DrillID [picklist]).
6. Update the start date (Projects>InformationDrilling>DrillStart [calendar]).
7. Enter any comments about the drilling, setup, troubles etc. (Projects>InformationDrilling>Comments [type]).
8. Update the year (Projects>InformationOther>Year [type]).

FINISHING A HOLE

1. Update the Atrribute to ‘Foré’.
2. Update the end date (Projects>InformationDrilling>DrillEnd [calendar]).
3. Update the final length of the hole.
4. Enter any comments about the drilling, setup, troubles, anything left in the hole, etc. (Projects>InformationDrilling>Comments [type]).
5. Update the Casing flag.
6. Update the collar coordinates.

LOGGING A HOLE

1. Update the Logged flag.
2. Update the LoggedBy.
3. Update the end of logging.

APPENDIX 10: SUMMARIES BY CLAIM FOR WINTER 2020 DRILLING

Table i: Count of winter 2020 drillhole collars by claim

Claim ID	Count		Claim ID	Count		Claim ID	Count
1133186	4		1133208	3		1133226	3
1133188	4		1133225	1		2355527	2
Total 17 drillholes							

Table ii: List of winter 2020 drillhole collars by claim

Claim ID	Hole ID		Claim ID	Hole ID		Claim ID	Hole ID
1133188	DO-20-262X		1133186	DO-20-273		1133226	DO-20-279
1133188	DO-20-269		1133225	DO-20-274		1133208	DO-20-280
1133188	DO-20-270		1133226	DO-20-275		1133208	DO-20-281
1133188	DO-20-271		1133186	DO-20-276		1133226	DO-20-282
2355527	DO-20-272		1133186	DO-20-277		1133208	DO-20-283
2355527	DO-20-272A		1133186	DO-20-278			

Table iii: Count of samples by type by claim

Claim ID	All*	Regular	Standard	Field Blanks	Field Duplicate	Coarse Duplicate
1133186	1,089	1,019	27	21	11	11
1133188	876	820	21	17	9	9
1133208	877	820	21	18	9	9
1133225	162	151	5	3	1	2
1133226	674	630	17	14	7	6
2355527	452	423	11	9	5	4
Total	**4,130**	**3,863**	**102**	**82**	**42**	**41**
*Samples sent for analysis						

Table iv: Count of SG, SCIP, MPP, and pXRF for winter 2020 drillholes by claim

NDX	Claim ID	SG	SCIP	MPP	pXRF
1	1133186	115	115	1,947	115
2	1133188	92	91	1,612	108
3	1133208	94	94	1,623	94
4	1133225	19	19	302	19
5	1133226	75	75	1,251	75
6	2355527	99	99	827	49
Total		**494**	**493**	**7,562**	**460**

Assessment Report for the Douay Property

Winter 2020 Diamond Drilling Program

Douay Township, Quebec

Volume 2 of 5
Appendix 2: Claim Map (1:75,000); Map 1
Appendix 3: Drillhole Location Map (1:75,000); Map 2

Map sheets: NTS 32E09, 32E10
Latitude 49.51°N, Longitude 78.32°W
UTM NAD83 Zone 17: 5487450 N, 694100 E

For

Maple Gold Mines Ltd.
1111 West Hastings Street
Vancouver, British Columbia
V6E 2J3

Report Date: January 12, 2022

Assessment Report for the Douay Property

Winter 2020 Diamond Drilling Program

Douay Township, Quebec

Volume 3 of 5

Appendix 4: Diamond Drillhole Logs – Drilling Winter 2020

Map sheets: NTS 32E09, 32E10
Latitude 49.51°N, Longitude 78.32°W
UTM NAD83 Zone 17: 5487450 N, 694100 E

For

Maple Gold Mines Ltd.
1111 West Hastings Street
Vancouver, British Columbia
V6E 2J3

Report Date: January 12, 2022

Drillhole Information

Easting:	709047.53
Northing:	5489930.94
Elevation:	304.92
Azimuth	358.20
Dip	-59.10

Drilling Information

DrillCo:	Pikogan
DrillID:	PK1
DrillStart:	26-Jan-20
DrillEnd:	28-Jan-20
Length (m):	585.00

Logging Information

LogBy:	E. Stavre (OGQ #2144)
LogStart:	26-Jan-20
LogEnd:	28-Jan-20

Drillhole Summary

DO-20-262X is a downhole extension of DO-19-262 (0-432.2) drilled 13-Apr-2019 - 18-Apr-2019.
Hole DO-20-262X Summary Report by E.Stavre

The main lithological units observed during logging are mafic volcanics, ultramfafic volcanics, synite (intrusions and/or injections) and in one occassion felsic volcanics.

Ultramafic Volcanics flow:
This unit occupies the upper part of the Hole ~432m-449m. Massive flow dark green, to green, fine grain, aphanitic, moderately to strongly deformed, concordant. Serpentine/chlorite and carbonate alteration is common in sub-mm fracture filling calcite veining throughout the unit.

Deformation is the most common structure and varies in intensity and extent. Shear deformation intervals are few meters up to several tens of meters wide. V4F appear to be deformed at low angle to core axes, 20-40 degree, yielding for a distal strong shear deformation zone. Presence of extensional carbonate/chlorite/serpentine filled veining is approximately up to 10% overall. It appears to be more intense in the lower contact with hypo-magnesial basalt. Alteration developed in the top 200m is represented by a serpentine-chlorite-carbonate+/-talc assemblage both pervasive and fracture controlled.

Mafic volcanics:

Basalts occupy more than 80% of the units.

Several textural subtypes are observed as follows:
Massive flows greenish-grey, fine grained aphanitic and extend for several tens of metres. The flows are usually moderately to strongly fractured. Epidote and carbonate alteration is common as sub-cm fracture filling calcite veins and veinlets and patches of epidote that often extend for several cm on either side of the fractures.

Amygdaloid intervals are common within massive basalts. Amygdules sometime calcite and/or pyrite filled are present.

Gabbroic textured basalts are greenish-grey, massive, equigranular, coarse grained. Grain size can vary between 2 and 4mm. These units go up to ~15m core length thick. They are usually less fractured and/or epidote/calcite plagioclase feldspar altered than the massive flows and often less magnetic as well. These intervals contain fewer structural features. Alteration is an epidote-carbonate+/-magnetite assemblage both pervasive and fracture controlled epidote and carbonate primarily in flow breccia and gabbroic textured basalts.

High magnesium basalts observed are dark green to black, massive, coarse grained 2-6mm and tend be less magnetic. They occur as moderate to strong alternating intensity between 449m-564m with sheared contacts most of the cases.

Syenites:

The bulk of the syenite units intersected in this Hole occur mainly as dyke like injections and or veins in basalts. They have sharp contacts mostly to lower angel to core axis, 20-40 degree. The late injections most protrude the already deformed basalts thus overprinting finer grain sulphides mineralization zones, intercepted in this hole are in a strong spatial relation with these injections. Fracturing is common structure and varies in intensity and extent.

Sulphide mineralization are observed as:

1. abundant10-15% pyrite as disseminated or aggregates, mostly in and around syenite injections around 490m-490.6m and 488.7m-488.8m, 528.4m-528.74m with an mineralized haloe up to 1.2-1.5m thick mafic envelope.

2.Pyrite content in structural features such as brecciation, strong fracturing and/or shearing intersect syenite, between 2 and 5% mainly as fine (submm to 1mm) disseminated subhedral grains and as hairline fracture filling veinlets

Intercepts >= 0.1 ppm

Hole_ID	From	To	Length	Au (ppm)
DO-20-262X	490	493	3	2.227
DO-20-262X	505	508	3	0.71
DO-20-262X	526	530.5	4.5	4.343
DO-20-262X	551	552	1	0.128

E. Stavre (OGQ #2144)
12-Jan-22

Lithology and Assay Results

From	To	Description
432.20	**444.20**	V4; FO; CS **Volcanique ultramafique; Folié; Cisaillé** Ultramafic rock to Mg basalt, non-magnetic. Dark green to black-green, fine to medium-grained, massive, sheared and foliated at 40 deg tca with concordant deformation. 10% carbonate shear veining (432.2m, 435.8m, 436m, 438.4m, 439m), mostly barren. One 10cm gougy/clay fault at 436.3m at approximately 50 deg tca. Strong serpentine/chlorite/actinolite and weak talcose alteration with cm-size strong patchy biotite altered sections. Locally weak patchy carbonate in the matrix and fracture-filling. Mineralization: overall trace to 0.5% medium-size cubic Py. Lower contact is graditional.
432.20	444.20	ST **Serpentinisation** Strong serpentine/chlorite/actinolite, weak talcose with cm-size strong patchy biotite alteration sections. Weak localized carbonatization in the matrix and stronger in veinlets and fractures.
432.20	450.00	PY0-0.5% **Pyrite 0-0.5%** overall trace to 0.5% medium-size cubic Py.
436.30	436.40	CS; PS; T1C 40 **Cisaillé(e) 40°; Plissé(e); Boue de faille** A 10cm gougy/clay fault at 436.3m at approximately 50 deg tca.La roche est fortement cisaille et folie et tres peu fracture a 2%. La roche est parseme par endroit de veines et venules de carbonates et quartz carbonate cisailles, plisses et failles (424.35m, 436.15m, 448.20-449.80m).on peut observer des veines de tension orientes 448.80m.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
432.20	433.00		V473610	0.0070	Au-ICP21	VO20031355
433.00	434.00		V473611	0.0010	Au-ICP21	VO20031355
434.00	435.00		V473612	0.0010	Au-ICP21	VO20031355
435.00	436.00		V473613	0.0050	Au-ICP21	VO20031355
436.00	437.00		V473614	0.0540	Au-ICP21	VO20031355
437.00	438.00		V473615	0.0010	Au-ICP21	VO20031355
438.00	439.00		V473616	0.0010	Au-ICP21	VO20031355
439.00	440.00		V473617	0.0010	Au-ICP21	VO20031355
440.00	441.00		V473618	0.0010	Au-ICP21	VO20031355
441.00	442.00		V473619	0.0030	Au-ICP21	VO20031355
442.00	443.00		V473620	0.0020	Au-ICP21	VO20031355
443.00	444.00		V473621	0.0010	Au-ICP21	VO20031355

From To Description From To Len SampleID Au (ppm) Method Certificate

From	To	Description
444.20	**449.30**	V4; CS; FO **Volcanique ultramafique; Cisaillé; Folié** Deformed ultramafic rock (komatiitic to high Mg-basalt), dark green to dark grey, massive, non-magnetic, with up to 30% calcite filled extensional veining and <10% calcite filled tension gashes, foliated at 50-60 deg tc in the upper portion of the unit and at 40 deg tca in the lower (at 448-449m). Serpentine/chlorite/weak talcose alteration, increased semipervasive carbonate (calcite). Mineralization: trace to 0.5% medium Py cubes, in chlorite slips controlled. Lower contact is alteration defined, graditional.
444.20	449.30	ST **Serpentinisation** Serpentine/chlorite/weak talcose, increased semi-pervasive carbonate (calcite).
444.20	449.30	CS; FA 40 **Cisaillé(e) 40°; Fracturé(e)** up to 30% calcite filled extensional veining and <10% calcite filled tension gashes, foliated at 50-60 deg tc in the upper portion of the unit and at 40 deg tca in the lower (at 448-449m).

From	To	Len	SampleID	Au (ppm)	Method	Certificate
444.00	445.00		V473622	0.0010	Au-ICP21	VO20031355
445.00	446.00		V473623	0.0010	Au-ICP21	VO20031355
446.00	447.00		V473624	0.0010	Au-ICP21	VO20031355
447.00	448.00		V473626	0.0020	Au-ICP21	VO20031355
448.00	449.00		V473627	0.0010	Au-ICP21	VO20031355

From	To	Description
449.30	**471.00**	V3B; MA; GF; FO **Basalte; Roche massive; Grains fins; Folié** Deformed Basalt to Mg basalt, patchy magnetic. Moderate deformation is decreasing at approximate ~ 40 deg foliation, reworked flow breccia at 451.7m-453.5 apatite cement? with strong hematite/K?, strongly fenitized. Colour dark grey, patchy burgundy, brown.Strongly fractured, sheared, with <20% tension gashes, with <5% calcite-filled shear veining (452-455.2m, 470.3-470.9m). At 450.3-451.2m - non-competent core (RQD=0). Brecciated at 452-453.45m.Mostly strong fenitization with hematite/carbonate/chlorite/weak serpentine and patchy strong biotite/hematite/K. No epidote or weak epidote patches (451.5-452.5m)

From	To	Len	SampleID	Au (ppm)	Method	Certificate
449.00	450.00		V473628	0.0020	Au-ICP21	VO20031355
450.00	451.00		V473629	0.0010	Au-ICP21	VO20031355
451.00	452.00		V473630	0.0030	Au-ICP21	VO20031355
452.00	453.00		V473631	0.0010	Au-ICP21	VO20031355
453.00	454.00		V473632	0.0010	Au-ICP21	VO20031355
454.00	455.00		V473633	0.0010	Au-ICP21	VO20031355
455.00	456.00		V473634	0.0010	Au-ICP21	VO20031355
456.00	457.00		V473635	0.0010	Au-ICP21	VO20031355
457.00	458.00		V473636	0.0020	Au-ICP21	VO20031355
458.00	459.00		V473637	0.0020	Au-ICP21	VO20031355
459.00	460.00		V473638	0.0010	Au-ICP21	VO20031355
460.00	461.00		V473639	0.0020	Au-ICP21	VO20031355
461.00	462.00		V473641	0.0010	Au-ICP21	VO20031355

Weak pyrite mineralization, trace to up to 0.5% medium Py cubes, locally up to 4% med-grained to fine-grained Py; minor Cpy blebs locally (465.3-465.37m).Lower contact is graditinal.

Additional notes (MS):
Probably Mg-rich Basalt (hence prominent biotite alteration as part of fenitizatn).
Fenitization is patchy to pervasive, moderate to strong, accompanied by carbonatization and specular and red hematite alteration.

In some parts, there is bright green mineral in fractures and patchy in the matrix (chlorite and possibly actinolite).

The interval is crosscut by white to pink Ca-carbonatite veinlets.At 453-453.4 m - several nodules composed of pale green mineral, which could be nepheline (XRF: SiO2 28%, Al 18%, K 5%, Fe 1.3%). Nodules are surrounded by white and pinkish carbonatite veinlets.At 465.3-465.4 m - irregular aggregates of Cpy, Py, Mgt and minor borne.t

At 470.2-471 m - pink-white carbonatite veinlets with Py aggregates.

449.30 471.00 HM; FK; BO; MG

Hématisation; Altération en feldspath potassique; Biotitisation; Magnétit

Mostly strong fenitization with strong hematite and patchy strong biotite/hematite/K. No epidote to weak epidote patches (451.5-452.5m). Weak carbonate in the matrix, stronger in fractures and veinlets. Weak serpentine, chlorite.Une silicification locale entre 489.90-490.54m en bande alternant avec les mineraux oxydes dans une foliation 40 ac.

450.00 465.30 PY0-0.5%; CP0-0.5%

Pyrite 0-0.5%; Chalcopyrite 0-0.5%

Weak pyrite mineralization, trace to up to 0.5% medium Py cubes, locally up to 4% med-grained to fine-grained Py; minor Cpy blebs locally.

465.30 465.40 PY04; CP

Pyrite 4%; Chalcopyrite

4% mg to fg Py, Cpy blebs

465.40 471.00 PY00.5

Pyrite 0.5%

Weak mineralization, trace to up to 0.5% medium Py cubes overall

450.30 451.20 FA

Fracturé(e)

450.3-451.2m - broken, non-competent core with RQD=0%

462.00	463.00	V473642	0.0020	Au-ICP21	VO20031355
463.00	464.00	V473643	0.0010	Au-ICP21	VO20031355
464.00	465.00	V473644	0.0230	Au-ICP21	VO20031355
465.00	466.00	V473645	0.0240	Au-ICP21	VO20031355
466.00	467.00	V473646	0.0030	Au-ICP21	VO20031355
467.00	468.00	V473647	0.0010	Au-ICP21	VO20031355
468.00	469.00	V473648	0.0010	Au-ICP21	VO20031355
469.00	470.00	V473649	0.0020	Au-ICP21	VO20031355
470.00	471.00	V473650	0.0020	Au-ICP21	VO20031355

451.20 471.00 FA; CS

Fracturé(e); Cisaillé(e)

A strongly fractured, sheared interval.tres fracture, recoupe par plusieurs veines et venules de carbonate, cisaillees, boudinees (453.90-454.20m, 457.45-458.10m). une brechification de la roche entre 452m et 453.45mentre 458-458.65m - faille de decrochement senestre montrant des crochon de faille de part et d autre de la faille.des zones tres fracturees montrant des fractures paralleles entre 476m et 480m, 483-490m.

From	To	Description
471.00	**478.70**	V3B; MA **Basalte; Roche massive** Basalt with Mg-rich Basalt. Magnetic. Massive, fine-grained, weakly fractured, <5% calcite filled fractures mostly 65-70 deg tca, weakly foliated at 40-45 deg tca. Strong pervasive calcite alteration, strong fenitization overall with strong biotite patches. At 474-476.7m stronger hematite, 476.7m - increasing biotite, carbonate/chlorite/bio/hematite zoning overall. Mineralization: trace to 0.5% medium Py cubes, in parts up to 25% Py blebs carbonate patches overprint and carbonate veining (474.9-475m, 477.7-477.8m, 478.6-478.7m). At 474.8-474.9 m - irregular aggregates of Cpy, Py, Mgt and minor sphalerite.
471.00	474.00	CB; HM; BO **Carbonatisation; Hématisation; Biotitisation** Overall increase of calcite to strong pervasive, strong fenitization overall with strong biotite patches 474-476.7m increasing hematite.
474.00	476.70	HM **Hématisation** 474-476.7m increasing hematite; carbonate/chlorite/biotite/hematite zoning overall.
476.70	478.70	CB; BO; HM **Carbonatisation; Biotitisation; Hématisation** 476.7m increasing biotite, carbonate/chlorite/bio/hematite zoning overall.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
471.00	472.00		V473651	0.0020	Au-ICP21	VO20031355
472.00	473.00		V473652	0.0020	Au-ICP21	VO20031355
473.00	474.00		V473653	0.0010	Au-ICP21	VO20031355
474.00	474.80		V473654	0.0040	Au-ICP21	VO20031355
474.80	475.60		V473655	0.0240	Au-ICP21	VO20031383
475.60	476.00		V473657	0.0040	Au-ICP21	VO20031383
476.00	477.00		V473658	0.0050	Au-ICP21	VO20031383
477.00	478.00		V473659	0.0020	Au-ICP21	VO20031383
478.00	479.00		V473660	0.0030	Au-ICP21	VO20031383

From	To	Description
478.70	**492.00**	V3B; MA **Basalte; Roche massive** Basalt, magnetic, green to grey, massive, fine-grained, heavily fractured with intensity decreasing down apex. At 483.2-489.4m - broken core, large sections with <10% RQD. Brittle/ductile deformation with ~30% calcite filled fracures, 10% tension gashes.Overall mineralized at 1% mg diss'd to Py cube Mineralized Zone at 488.7-488.8m:30% dissolution cavities, strongly altered (fenitized) with carbonate and orange-pink K/Hematite patches. Mineralized by up to 10% medium to fine Py disseminated and fracture-filling, with up to 2-3% Cpy disseminated to blebby. Mineralized Zone at 490-490.6m:Deformed fenitized rock - felsic volcanics? bands alternating with intensely altered basalt, with few mm size mylonite, strong shear deformation at 40 deg tca. Strong hematite/Kspar/carbonate alteration. Mineralized by up to 10% fine-grained Py stringers and disseminated grains.Overall, strong fenitization and hematitization, somewhat patchy strong Fe-carbonate/chlorit e. At 484-486.43m Mg basalt is sheared at 40 deg tca, weakly fenitized, with stronger semi-pervasive carbonate/biotite/chlorite.Lower contact is marked by a 5cm carbonate-filled extensional shear vein at 20 deg tca with up to 3% medium-grained Py stringers and blebs. Additional notes (MS): At 489.8-491.3 m - a foliated/sheared interval, mottled, with alternating dark biotite-rich and pale grey carbonate bands. Fine-grained Mgt/Hem in fractures and foliation planes. Stylolites across the foliation. After this interval, basalt becomes finer-grained, amygdaloidal - possibly another flow.
488.70	488.80	I2D; AP **Syénite; Aphanitique** 488.7-488.8m - strongly altered fenitized interval with 30% dissolution cavities, carbonate/hematite/K patches through basalt with orange-pink potassic minerals (syenite?), strong patchy K/Hematite. Mineralized by up

From	To	Len	SampleID	Au (ppm)	Method	Certificate
479.00	480.00		V473661	0.0010	Au-ICP21	VO20031383
480.00	481.00		V473662	0.0010	Au-ICP21	VO20031383
481.00	482.00		V473663	0.0005	Au-ICP21	VO20031383
482.00	483.00		V473664	0.0020	Au-ICP21	VO20031383
483.00	484.00		V473665	0.0005	Au-ICP21	VO20031383
484.00	485.00		V473666	0.0005	Au-ICP21	VO20031383
485.00	486.00		V473667	0.0005	Au-ICP21	VO20031383
486.00	487.00		V473668	0.0005	Au-ICP21	VO20031383
487.00	488.00		V473669	0.0010	Au-ICP21	VO20031383
488.00	489.00		V473670	0.0020	Au-ICP21	VO20031383
489.00	490.00		V473671	0.0100	Au-ICP21	VO20031383
490.00	491.00		V473672	**1.9700**	Au-ICP21	VO20031383
491.00	492.00		V473674	**4.5300**	Au-ICP21	VO20031383

to 10% medium to fine disseminated and fracture-filling Py and up to 2-3% Cpy disseminated, blebby.

490.00 490.60 I2D; AP

Syénite; Aphanitique

490-490.6m - deformed fenitized, aphanitic interval - felsic volcanics? or cherty? bands alternating with intensely altered basalt, with few mm size mylonite, strong shear deformation at 40 deg tca. Strong hematite/Kspar/carbonate alteration. Mineralized by up to 10% Py fine disseminated grains and stringers.

478.70 488.70 HM; CB; CL; FK

Hématisation; Carbonatisation; Chloritisation; Altération en feldspath pot

Overall strong fenitization, somewhat patchy, strong Fe-carbonate/chlorite, strong hematite patches, 484-486.43m Mg basalt sheared at 40 deg tca, weak fenitization, stronger semi-pervasive carbonate/biotite/chlorite.

488.70 488.80 HM; CB; FK

Hématisation; Carbonatisation; Altération en feldspath potassique

strong fenitization, carbonate/hematite/K patches

488.80 490.00 CB; HM; CL; FK

Carbonatisation; Hématisation; Chloritisation; Altération en feldspath pot

Overall strong fenitization, somewhat patchy, strong Fe-carbonate/chlorite, strong Hem patches, patchy semi-pervasive carbonate/biotite/chlorite.

490.00 490.60 CB; HM; FK

Carbonatisation; Hématisation; Altération en feldspath potassique

Strong hematite/Kspar/carbonate

490.60 491.80 CB; HM; BO

Carbonatisation; Hématisation; Biotitisation

Overall strong fenitization, somewhat patchy, strong Fe-carbonate/chlorite, strong Hem patches

488.70 488.80 PY10; CP03

Pyrite 10%; Chalcopyrite 3%

up to 10% medium to fine Py disseminated and fracture-filling, with up to 2-3% Cpy disseminated to blebby.

490.00 490.60 PY10

Pyrite 10%

up to 10% fine-grained Py stringers and disseminated grains.

489.80 491.30 CS

Cisaillé(e)

A foliated/sheared interval at 40 deg tca

From	To	Description
492.00	**496.60**	V3B; AM **Basalte; Amygdalaire** Basalt, magnetic, green, fine-grained, amygdaloidal with small, weakly elongated, calcite-filled amygdules. Moderately fractured with 5% calcite-filled fractures at 40-50 deg tca. Stronger biotite patches with denser Hem patches. At 492.2-492.3m - 90% carbonate/chlorite, alternating extensional veining at 40 deg tca with up to 2% medium-grained Py stringers, vein-controlled. At 495.7m - a 6cm wide carbonate/apatite/chlorite vein at 45 deg tca, with Hem patces. Mineralized up to 1% mg Py stringers to vein controlled.Lower contact is shear controlled at 40 deg a. Additional notes (MS): Patchy brown fenitization, very fine-grained matrix with localized groups of small amygdules filled by calcite, chlorite, pyrite. Disseminated small to coarse Py cubic grains. At 495.7 m - pink Ca-carbonatite vein.
491.80	496.60	CB; BO; HM **Carbonatisation; Biotitisation; Hématisation** stronger biotite patches with denser Hem patches. 492.2-492.3m 90% carbonate/chlorite

From	To	Len	SampleID	Au (ppm)	Method	Certificate
492.00	493.00		V473675	**0.1820**	Au-ICP21	VO20031383
493.00	494.00		V473676	0.0340	Au-ICP21	VO20031383
494.00	495.00		V473677	0.0020	Au-ICP21	VO20031383
495.00	496.00		V473678	0.0010	Au-ICP21	VO20031383
496.00	497.00		V473679	0.0005	Au-ICP21	VO20031383

From	To	Description
496.60	**511.60**	V3B; MA; GM **Basalte; Roche massive; Grains moyens** Basalt, massive, fine to medium-grained with <2% flow breccia, medium green with a few dark green sections, foliated at ~50 deg tca, with <10% epidote-filled fractures oriented at 40-50 deg tca and <2% carbonate extensional veining at 40 deg tca. At 496.2-498m - faint flow breccia with epidote/carbonate cement, abundant variably oriented epidote/calcite-filled hairline fractures.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
497.00	498.00		V473680	0.0005	Au-ICP21	VO20031383
498.00	499.00		V473681	0.0005	Au-ICP21	VO20031383
499.00	500.00		V473682	0.0010	Au-ICP21	VO20031383
500.00	501.00		V473683	0.0090	Au-ICP21	VO20031383
501.00	502.00		V473684	0.0160	Au-ICP21	VO20031383
502.00	503.00		V473685	0.0010	Au-ICP21	VO20031383
503.00	504.00		V473686	0.0020	Au-ICP21	VO20031383
504.00	505.00		V473687	0.0030	Au-ICP21	VO20031383

At 498-499.45m transition flow breccia to amygdaloidal flow. Epidotization somewhat decreasing.At 505.0-505.9m - 30% carbonate/chlorite extensional veining at 60 deg tca. Strong fenitization, hematite/K/Carbonate assemblage, mineralized by up to 8% medium to fine disseminated Py.

Overall, strong patchy to semi-pervasive epidotization, saussuritization on plagioclase grains which form a gabbroic texture (ophitic). Epidote/carbonate/chlorite intervals alternate with non-epidotized intervals which have moderate hematite.

Mineralization: overall trace to 0.5% medium Py, locally up to 4% medium-size disseminated Py blebs

At 507.6-508.6m - semi-pervasive epidotization, stronger pervasive calcite/weak hematite, sheared at 30-40 deg tca, mineralized by 2-3% medium to fine Py disseminated grains and stringers. Lower contact is sheared and epidote alteration defined, at approximately 60 deg tca.

Additional notes (MS):

Basalt contains localized groups of small amygdules. At 501.1 m - a Ca-carbonatite vein.

496.20 498.00 V3B; BQ
Basalte; Brèche de coulée
faint flow breccia

496.60 505.00 EP; CB; CL; HM
Épidotisation; Carbonatisation; Chloritisation; Hématisation
Patchy epidotization, saussuritization of plagioclase. Epidote/carbonate/chlorite zoning with non-epidotized intervals with moderate hematite alteration.

505.00 505.90 HM; FK; CB
Hématisation; Altération en feldspath potassique; Carbonatisation
Strong fenitization, hematite/K/Carbonate assemblages

505.90 511.60 EP; CB; CL; HM
Épidotisation; Carbonatisation; Chloritisation; Hématisation
Patchy epidotization, saussuritization of plagioclase. Epidote/carbonate/chlorite zoning with non-epidotized intervals with moderate hematite alteration.

490.60 505.00 PY00.5
Pyrite 0.5%
trace pyrite

505.00	506.00	V473689	**1.6150**	Au-ICP21	VO20031383
506.00	507.00	V473690	0.0150	Au-ICP21	VO20031383
507.00	508.00	V473691	**0.5010**	Au-ICP21	VO20031383
508.00	509.00	V473692	0.0570	Au-ICP21	VO20031383
509.00	510.00	V473693	0.0030	Au-ICP21	VO20031383
510.00	511.00	V473694	0.0010	Au-ICP21	VO20031383
511.00	512.00	V473695	0.0005	Au-ICP21	VO20031383

505.00 505.90 PY08

Pyrite 8%

up to 8% medium to fine disseminated Py

507.60 508.60 PY

Pyrite

2-4% medium to fine Py disseminated grains and stringers.

508.60 511.00 PY00.5

Pyrite 0.5%

trace pyrite

From	To	Description
511.60	**517.85**	V3B; V3F; MA **Basalte; Basalte hyper-magnésien; Roche massive** Moderate Basalt to Mg basalt, green, fine-grained, massive, moderately deformed with <25% calcite tension gashes and stylolites. Intervals of stronger biotite and hematite alteration/fenitization (at 511.6-512.7m and 513.4-513.6m) are moderately fractured with <30% calcite filled fractures and foliated at 40-60 deg tca.At 513.4-513.5m - an extensional vein at 40 deg tca in shear deformation with carbonate/hematite/chlorite infilling, mineralized up to 3% medium Py anhedral to euhedral grains. At 516.85m - carbonate-filled extensional veining at 20 deg tca with up to 6% medium Py blebs and stringers.At 517.85m - carbonate/hematite milled mylonite zone at 45 deg tca, barren. Mineralization: overall, trace to 0.5% medium Py cubic grains. Additional notes (MS):Basalt is fine-grained in the upper parts of the unit with intervals of flow breccia and anhedral epidotized Plg megacrysts.From ~513.5 m, the rock gradually becomes a bit coarser, gabbroic, with a spotted appearance. The matrix is green, Chl/Amph altered, with epidotized patches and fracture-filling epidote-calcite. Locally weak patchy Hem/K reddish alteration.At 517.85 m - a distinct, sharp lower contact at 37CA with an intermediate dyke.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
512.00	513.00		V473696	0.0005	Au-ICP21	VO20031383
513.00	514.00		V473697	0.0005	Au-ICP21	VO20031383
514.00	515.00		V473698	0.0005	Au-ICP21	VO20031383
515.00	516.00		V473699	0.0005	Au-ICP21	VO20031383
516.00	517.00		V473700	0.0005	Au-ICP21	VO20031383
517.00	518.00		V473701	0.0005	Au-ICP21	VO20031383

511.00 513.40 PY00.5

Pyrite 0.5%

trace pyrite

513.40	513.50	PY03	
		Pyrite 3%	
		mineralized by up to 3% Py medium-size blebs and cubic grains	
513.50	516.50	PY00.5	
		Pyrite 0.5%	
		trace	
516.50	516.55	PY06	
		Pyrite 6%	
		516.85m one carbonate filling extensional veining at 20 deg tca with up to 6% mg blebs to Py stringers	
511.60	512.70	FA	
		Fracturé(e) 40°	
		sheared Mg-basalt, moderately fractured with <30% calcite-filled fractures, foliated at 40-60 deg tca.	
513.40	513.60	FA	40
		Fracturé(e) 40°	
		moderately fractured interval with <30% calcite filled fractures, foliated at 40-60 deg tca.	

From	To	Description
517.85	**519.70**	I2; GF
		Intrusif intermédiaire 37°; Grains fins
		An intermediate dyke with distinct contacts, probably alkali syenite. Medium brownish-pink-grey, K-feldspar-rich, fine to medium-grained, massive, rather uniform, moderately to strongly carbonatized (calcite), weakly magnetic. Dark green, tiny amphibole crystals are seen in the matrix and also fine flakes of specular hematite. The rock is weakly fractured with fractures filled by calcite, chlorite/amphibole, and minor epidote. More intense epidotization on the contacts on the side of the hosting rock. White calcite-filled tension gashes. Mineralization; traces of disseminated pyrite.XRF shows elevated REEs (Ce, La, Y) ranging from 300 to 700 ppm, and elevated PO4 (1-1.6%) and Ba (1000-3000 ppm).The lower contact is distinct, starts at 25-30CA and then undulates parallel to the core axis over a 15-20 cm long interval.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
518.00	519.00		V473702	0.0030	Au-ICP21	VO20031383
519.00	520.00		V473703	0.0005	Au-ICP21	VO20031383

From	To	Description
519.70	**526.80**	V3B; GM **Basalte 30°; Grains moyens** Moderate Basalt to Mg basalt, green, fine-grained, massive, moderately deformed with <25% calcite tension gashes and stylolites. Interval of stronger biotite and hematite alteration/fenitization (at 524-525m) is moderately fractured with <30% calcite filled fractures and foliated at 40-60 deg tca. At 524-524.8m - moderate tension gashes, deformed at somewhat 40 deg shear foliation, with up to 2% medium to fine Py disseminated grains and stringers. Mineralization: trace to 0.5% medium Py cubes overall.Lower contact is a 4cm carbonate/hematite/K altered extensional veining at approximately 50 deg tca. Barren. Additional notes (MS): Basalt, fine to medium-grained, gabbroic, with a spotted appearance. Dark to medium grey-green, locally patchy brownish-pink Hem/K alteration. Magnetic.
519.70	519.80	I1; AP **Intrusif felsique 15°; Aphanitique** 519.7-519.8m - an aphanitic interval - could be felsic intrusive (possible felsic volcanic?/ or altered basalt), at 10-15 deg tca; strong fenitization, strong hematite/carbonate, moderate K patches, calcite-filled fractures with trace Py. This subunit controlls fracture zones.
511.60	526.80	CB; HM; BO; CL **Carbonatisation; Hématisation; Biotitisation; Chloritisation** Moderate fenitization with intense hematite patches where strongly sheared. Carbonate/chlorite/biotite zoning overall with few stringer biotite patches.
516.55	524.00	PY00.5 **Pyrite 0.5%** trace
516.85	524.00	PY00.5 **Pyrite 0.5%** trace pyrite

From	To	Len	SampleID	Au (ppm)	Method	Certificate
520.00	521.00		V473705	0.0020	Au-ICP21	VO20031383
521.00	522.00		V473706	0.0005	Au-ICP21	VO20031383
522.00	523.00		V473707	0.0005	Au-ICP21	VO20031383
523.00	524.00		V473708	0.0005	Au-ICP21	VO20031383
524.00	525.00		V473709	0.0080	Au-ICP21	VO20031383
525.00	526.00		V473710	0.0010	Au-ICP21	VO20031383
526.00	527.00		V473711	**0.1140**	Au-ICP21	VO20031383

524.00	524.80	PY02	
		Pyrite 2%	
		up to 2% medium to fine Py disseminated grains and stringers in a sheared interval	
524.80	526.80	PY00.5	
		Pyrite 0.5%	
		trace pyrite	
518.00	529.40	FA	40
		Fracturé(e) 40°	
		moderately fractured interval with <30% calcite filled fractures, foliated at 40-60 deg tca.	

From	To	Description
526.80	**534.45**	V3B; V3F
		Basalte 30°; Basalte hyper-magnésien
		Mineralization ZoneBasalt to Mg-basalt down apex, magnetic, green-grey, fine-grained, massive, deformed/sheared with foliation at 40 deg tca and 20% carbonate filled fractures at 60-65 deg tca. Strong fenites overall, strong Hem/carbonate patches(calcite) with strong elongated chlorite/biotite minerals. Mineralized by up to 8% medium to fine Py disseminated grains and stringers.Lower contact is around 30 deg, mylonitic.At 528.4-528.74m - a felsic volcanic interval (rhyodacite?), grey to light grey, fine-grained to aphanitic with abundant Plg feldspar automorph grains where visible, small biotite granulation, foliated at 65 deg tca, weakly fractured, concordant foliation, strong carbonatization with weak to moderate K-feldspar patches. Mineralized around 25% fine to medium disseminated Py. Lower contact at 40 deg tca, mylonitic. Additional notes (MS); 527.9-531.0 m - patchy to pervasive, moderate to strong fenitization (biotite, K-spar, bright green chlorite, amphibole), carbonatization, red and specular Hem, Mgt, locally disseminated leucoxene. The lower contact of the unit with an intermediate dyke is distinct, at 30CA.
528.40	528.74	F1
		Sulfures massifs 40°
		528.4-528.74m - a volcanic unit (rhyodacite??) grey to light grey, fine-

From	To	Len	SampleID	Au (ppm)	Method	Certificate
527.00	528.00		V473712	**1.2150**	Au-ICP21	VO20031383
528.00	528.70		V473713	**16.5500**	Au-GRA2	VO20031383
528.70	529.70		V473714	**6.3000**	Au-ICP21	VO20031383
529.70	530.50		V473715	**0.4130**	Au-ICP21	VO20031383
530.50	531.00		V473716	0.0240	Au-ICP21	VO20031383
531.00	532.00		V473717	0.0080	Au-ICP21	VO20031383
532.00	533.00		V473718	0.0020	Au-ICP21	VO20031383
533.00	534.00		V473719	0.0030	Au-ICP21	VO20031383

grained to aphanitic, abundant Plg fedspar automorph where visible, small biotite granulation, foliated at 65 deg tca, weakly fractured, concordant foliation, strong carbonatization with weak to moderate K spar patches. Mineralized around 25% medium to fine disseminated Py. Lower contact at 40 deg tca, mylonitic.Additional notes (by M.Sokolov):This interval has distinct, sharp contacts at 30-35CA. The rock is fine-grained, massive, pale grey (fresh core), mainly composed of carbonate - dolomite to Fe-carbonate, which produces a mild fizzing reaction to HCl test. The surface of the core stored ourside has become rusty, Fe-oxidized, Mineralized by 10-15% of fine disseminated magnetite and abundant disseminated pyrite.XRF shows SiO2 17 to 30%; Ca 7-9.5%, Fe 5-7%, Al 4.5-6%, Mg 1.6-3%, Ti 0.7-1.6%, K 800-1400 ppm, Mn 1200 ppm,W 100-170 ppm, traces Ce.The origin of this interval is not clear, possibly exhalative.

526.80 530.10 HM; CB; FK; BO; MG

Hématisation; Carbonatisation; Altération en feldspath potassique; Biotiti

Strong fenitization overall, strong hematite/carbonate patches (calcite) with strong elongated chlorite/biotite minerals.

530.10 531.10 CB; CL; BO; HM

Carbonatisation; Chloritisation; Biotitisation; Hématisation

Carbonate/chlorite/moderate semi-pervasive biotite zoning overall with weak patchy hematite

531.10 534.00 LX

Leucoxene

Disseminated leucoxene, decreasing from 534m

526.80 528.40 PY08

Pyrite 8%

Mineralized by up to 8% medium to fine Py disseminated grains and stringers.

528.40 528.74 PY25

Pyrite 25%

25% fine to medium disseminated Py

529.40 530.10 CS 40

Cisaillé(e) 40°

deformed at 40 deg tca shear foliation, 20% carbonate filled fractures at 60-65 deg tca.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
534.45	535.95	I2; GF **Intrusif intermédiaire 30°; Grains fins** An intermediate dyke, same as at 517.85-519.7 m; probably "true" syenite. Distinct contacts.Medium pink-brownish-grey, fine to medium-massive, uniform, K-feldspar-rich, with green Amph/Chl in the matrix and fractures. The matrix is moderately to strongly carbonatized (calcite), weakly magnetic, weakly fractured with Chl/Amph and white calcite infilling. Locally orange-pink gypsum/anhydrite veinlets.Mineralization: traces Py small cubic grains, locally 1-2% Py on fractured surfaces.XRF shows elevated REEs, PO4 and Ba. The lower contact is distinct, at 37CA, with an adjacent 5-6 cm wide quartz vein.	534.00	535.00		V473720	0.0030	Au-ICP21	VO20031383
			535.00	535.50		V473722	0.0060	Au-ICP21	VO20031383
535.95	545.35	V3B; MA; GM **Basalte 37°; Roche massive; Grains moyens** Basalt, green, massive, foliated at 50 deg tca, with 20% calcite-filled fractures at 45-50 deg tca. Carbonate/chlorite/moderate semi-pervasive biotite zoning overall with weak patchy hematite. Disseminated leucoxene (531.1-534m, decreasing). Weak to moderate semi-pervasive epidote starting from approximately 543.5m down apex, alternating. At 535.9-536.1m - one 90% mineralized carbonate/quartz/chlorite vein at 60 deg tca with strong halo localized hematite patches, with up to 15% medium-grained Py stringers and disseminated grains.Mineralized by up to 0.5% medium-grained Py overall At 540.4-540.44m - a 3cm-wide shear deformation at 50 deg tca, strongly fenitized, Hem/carb/chl vein mineralized by 3% med-grained Py blebby to cubic grains. The lower contact with an intermediate dyke is distinct, at 40CA.	535.50	536.50		V473723	0.0180	Au-ICP21	VO20031383
			536.50	537.00		V473724	0.0020	Au-ICP21	VO20031383
			537.00	538.00		V473725	0.0005	Au-ICP21	VO20031383
			538.00	539.00		V473726	0.0005	Au-ICP21	VO20031383
			539.00	540.00		V473727	0.0005	Au-ICP21	VO20031383
			540.00	541.00		V473728	0.0010	Au-ICP21	VO20031383
			541.00	542.00		V473729	0.0005	Au-ICP21	VO20031383
			542.00	543.00		V473730	0.0005	Au-ICP21	VO20031383
			543.00	544.00		V473731	0.0010	Au-ICP21	VO20031383
			544.00	545.00		V473732	0.0010	Au-ICP21	VO20031383
534.00	543.50	CB; CL; BO; HM **Carbonatisation; Chloritisation; Biotitisation; Hématisation** Carbonate/chlorite/moderate semi-pervasive biotite zoning overall with weak patchy hematite							

535.90 536.10 PY15

Pyrite 15%

up to 15% medium-grained Py stringers and disseminated grains.

540.40 540.50 CS 50

Cisaillé(e) 50°

540.4-540.44m - a 3cm shear deformation at 50 deg tca

From	To	Description
545.35	**550.50**	I2; GF **Intrusif intermédiaire 40°; Grains fins** An intermediate dyke, same as at 517.85-519.7 m; probably "true" syenite. Distinct contacts.Medium pink to brownish-grey, fine to medium-massive with minor yellowish, epidotized patches, uniform, K-feldspar-rich, with green Amph/Chl in the matrix and fractures. Occasional dark green (chloritized) anhedral phenocrysts. The matrix is moderately to strongly carbonatized (calcite), weakly magnetic, weakly fractured with Chl/Amph and white calcite infilling. Locally orange-pink gypsum/anhydrite veinlets. Locally disseminated leucoxene.Mineralization: mostly traces Py small cubic grains.XRF shows elevated REEs, PO4 ana. The lower contact is distinct, at 20CA, which then continues at 0-5CA for over 25 cm; epidotized on the side of basalt.
543.50	553.00	EP; LX; CB; HM **Épidotisation; Leucoxene; Carbonatisation; Hématisation** Weak to moderate fenitization overall. Epidote/carbonate/chlorite zoning with semi-pervasive biotite sections and disseminated Lx towards the end of interval. Weak patchy hematite.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
545.00	546.00		V473733	0.0005	Au-ICP21	VO20031383
546.00	547.00		V473734	0.0005	Au-ICP21	VO20031383
547.00	548.00		V473735	0.0010	Au-ICP21	VO20031383
548.00	549.00		V473737	0.0005	Au-ICP21	VO20031383
549.00	550.00		V473738	0.0030	Au-ICP21	VO20031383
550.00	551.00		V473739	0.0020	Au-ICP21	VO20031383

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description
550.50	564.50	V3B **Basalte 20°** Basalt, same as at 535.95-545.35 m.Mineralized by up to 0.5% mg Py overll. At 558.4-558.45m - one carbonate-filled veinlet to shear deformation at 50 deg tca with up to 6% medium to fine disseminated Py. Lower contact is marked by a carbonate-filled vein at 60 deg tca with minor epidote-altered flow breccia component. Barren.
553.00	563.00	EP; CB; LX **Épidotisation; Carbonatisation; Leucoxene** Epidote/carbonate/chlorite zoning, disseminated leucoxene.
558.40	558.50	PY06 **Pyrite 6%**

From	To	Len	SampleID	Au (ppm)	Method	Certificate
551.00	552.00		V473740	**0.1280**	Au-ICP21	VO20031383
552.00	553.00		V473741	0.0020	Au-ICP21	VO20031383
553.00	554.00		V473742	0.0010	Au-ICP21	VO20031383
554.00	555.00		V473743	0.0860	Au-ICP21	VO20031383
555.00	556.00		V473744	0.0020	Au-ICP21	VO20031383
556.00	557.00		V473745	0.0020	Au-ICP21	VO20031383
557.00	558.00		V473746	0.0090	Au-ICP21	VO20031383
558.00	559.00		V473747	0.0020	Au-ICP21	VO20031383
559.00	560.00		V473748	0.0010	Au-ICP21	VO20031383
560.00	561.00		V473749	0.0220	Au-ICP21	VO20031383
561.00	562.00		V473750	0.0130	Au-ICP21	VO20031383
562.00	563.00		V473751	0.0005	Au-ICP21	VO20031383
563.00	564.00		V473753	0.0010	Au-ICP21	VO20031383
564.00	565.00		V473754	0.0005	Au-ICP21	VO20031383

From	To	Description
564.50	585.00	V3B **Basalte** Basalt, with <5% flow breccia, somewhat gabbroic with epidotized/saussuritized plagioclase grains. Massive, locally foliated at 50 deg tca, with 15-20% epidote-filled fractures at approximately 40-60 deg tca. Moderate to strong epidote alteration throughout. Weak patchy hematite, locally patchy fenitization. Epidote/carbonate/chlorite zoning with semi-pervasive biotite sections, minor disseminated Lx towards the end of interval. Mineralized by trace to 0.5% medium-size Py cubic grains overall, locally up to 2% Py blebs around carbonate veining. Additional notes (MS): Medium grey-green, gabbroic Basalt with localized yellowish green epidotized patches. Fine to medium-grained, in parts weakly porphyritic with dark green chloritized ferromagnesian grains (Px?); locally disseminated leucoxene.Moderately fractured with fractures filled by white calcite, epidote. Some late orange-pink gypsum/anhydrite veinlets crosscut older epidote-filled fractures. At 565.573 m - a porphyritic section with yellowish, anhedal to subhedral Plg phenocrysts.At 573-583.2 m - weak to moderate, patchy, brownish to reddish fenitization.At 583.2-585 m - finer-grained matrix.EOH

From	To	Len	SampleID	Au (ppm)	Method	Certificate
565.00	566.00		V473755	0.0005	Au-ICP21	VO20031383
566.00	567.00		V473756	0.0005	Au-ICP21	VO20031383
567.00	568.00		V473757	0.0005	Au-ICP21	VO20031383
568.00	569.00		V473758	0.0005	Au-ICP21	VO20031383
569.00	570.00		V473759	0.0005	Au-ICP21	VO20031383
570.00	571.00		V473760	0.0005	Au-ICP21	VO20031383
571.00	572.00		V473761	0.0010	Au-ICP21	VO20031383
572.00	573.00		V473762	0.0100	Au-ICP21	VO20031383
573.00	574.00		V473763	0.0020	Au-ICP21	VO20031383
574.00	575.00		V473764	0.0040	Au-ICP21	VO20031383
575.00	576.00		V473765	0.0030	Au-ICP21	VO20031383
576.00	577.00		V473766	0.0010	Au-ICP21	VO20031383
577.00	578.00		V473767	0.0005	Au-ICP21	VO20031383
578.00	579.00		V473768	0.0005	Au-ICP21	VO20031383
579.00	580.00		V473770	0.0005	Au-ICP21	VO20031383
580.00	581.00		V473771	0.0010	Au-ICP21	VO20031383
581.00	582.00		V473772	0.0020	Au-ICP21	VO20031383
582.00	583.00		V473773	0.0050	Au-ICP21	VO20031383
583.00	584.00		V473774	0.0010	Au-ICP21	VO20031383
584.00	585.00		V473775	0.0005	Au-ICP21	VO20031383

563.00 573.00 EP; CB; LX; HM

Épidotisation; Carbonatisation; Leucoxene; Hématisation

Weak to moderate fenitization overall. Epidote/carbonate/chlorite zoning with semi-pervasive biotite sections and disseminated Lx towards the end of interval. Weak patchy hematite.

573.00 583.20 HM; FK; BO; CB

Hématisation; Altération en feldspath potassique; Biotitisation; Carbonati

Weak to moderate, patchy, brownish to reddish fenitization/biotitization/hematitization and carbonatization.

583.20 585.00 EP; CB

Épidotisation; Carbonatisation

Weak to moderate, patchy and fracture-filling epidote and carbonate (calcite) alteration.

564.00 585.00 PY00.5

Pyrite 0.5%

Mineralized by trace to 0.5% medium to fine disseminated Py cubes; locally up to 2% Py blebs around carbonate veining

Downhole Survey

Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method
0.00	358.20	-59.10	Collar	6.00	359.84	-60.65	Reflex EZ-Gyro	36.00	3.22	-61.09	Reflex EZ-Gyro
66.00	359.97	-62.26	Reflex EZ-Gyro	96.00	0.40	-62.19	Reflex EZ-Gyro	126.00	359.11	-61.97	Reflex EZ-Gyro
156.00	1.30	-61.94	Reflex EZ-Gyro	186.00	2.41	-60.48	Reflex EZ-Gyro	216.00	3.21	-60.08	Reflex EZ-Gyro
246.00	2.64	-59.51	Reflex EZ-Gyro	276.00	3.59	-59.35	Reflex EZ-Gyro	306.00	4.04	-58.95	Reflex EZ-Gyro
336.00	2.18	-58.21	Reflex EZ-Gyro	366.00	2.78	-57.73	Reflex EZ-Gyro	396.00	3.57	-57.33	Reflex EZ-Gyro
426.00	5.24	-56.34	Reflex EZ-Gyro	460.00	4.92	-56.30	Reflex EZ-Gyro	490.00	5.41	-56.21	Reflex EZ-Gyro
520.00	6.63	-55.97	Reflex EZ-Gyro	550.00	7.33	-55.63	Reflex EZ-Gyro	579.00	8.35	-55.33	Reflex EZ-Gyro

Drillhole Information

Easting: 709037.07
Northing: 5489871.02
Elevation: 305.20
Azimuth 352.00
Dip -70.00

Drilling Information

DrillCo: Pikogan
DrillID: PK1
DrillStart: 18-Jan-20
DrillEnd: 26-Jan-20
Length (m): 717.00

Logging Information

LogBy: E. Stavre (OGQ #2144)
LogStart: 26-Feb-20
LogEnd: 14-Mar-20

Drillhole Summary

Intercepts >= 0.1 ppm

Hole_ID	From	To	Length	Au (ppm)
DO-20-269	641	648.3	7.3	0.213
DO-20-269	656	657	1	0.217
DO-20-269	661	666	5	0.486
DO-20-269	694	703	9	0.954

E. Stavre (OGQ #2144)
12-Jan-22

Lithology and Assay Results

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
0.00	**63.70**	M-T **Mort terrain** Overburden.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
63.70	**104.00**	V3F; V4; VA **Basalte hyper-magnésien; Volcanique ultramafique; Variolaire** Magnesian Basalt / Komatiitic Basalt with variolitic textures.The rock has a mottled appearance and is composed of dark bluish to greenish grey, fine-grained matrix and paler bluish grey varioles. Varioles are mm to cm in size, round to slightly elongated, occurring as discrete globules or coalesced groups. The matrix is altered to amphibole (actinolite), chlorite, patchy calcite, minor epidote. Black serpentine is seen in fractures, minor in the matrix. Locally flow breccia. Magnetism: non-magnetic. Structure: a competent rock with weak fracturing and veing. There are two distinct sets of structures: 1) mm-cm veinlets oriented at 27-40CA (mainly 30CA), filled by white carbonate (calcite) and epidote; and 2) occasional, straight fractures oriented at 10-15CA, including a mm fault fracture with microbreccia and gouge at 80.5 m. Mineralization: traces to 0.5% Py as small, disseminated, anhedral grains, fine-grained aggregates in some fractures.Variolitic textures are clearly seen down to 104 m, then they disappear. There are no distinct changes in the composition, so the lower contact is rather gradational.	63.70	64.35		V469801	0.0020	Au-ICP21	VO20031322
			64.35	65.00		V469802	0.0010	Au-ICP21	VO20031322
			65.00	66.00		V469803	0.0020	Au-ICP21	VO20031322
			66.00	67.00		V469804	0.0020	Au-ICP21	VO20031322
			67.00	68.00		V469805	0.0010	Au-ICP21	VO20031322
			68.00	69.00		V469806	0.0030	Au-ICP21	VO20031322
			69.00	70.00		V469807	0.0030	Au-ICP21	VO20031322
			70.00	71.00		V469809	0.0050	Au-ICP21	VO20031322
			71.00	72.00		V469810	0.0030	Au-ICP21	VO20031322
			72.00	73.00		V469811	0.0020	Au-ICP21	VO20031322
			73.00	74.00		V469812	0.0010	Au-ICP21	VO20031322
			74.00	75.00		V469813	0.0040	Au-ICP21	VO20031322
			75.00	76.00		V469814	0.0030	Au-ICP21	VO20031322
			76.00	77.00		V469815	0.0030	Au-ICP21	VO20031322
			77.00	78.00		V469816	0.0040	Au-ICP21	VO20031322
			78.00	79.00		V469817	0.0030	Au-ICP21	VO20031322
			79.00	80.00		V469818	0.0020	Au-ICP21	VO20031322
			80.00	81.00		V469819	0.0030	Au-ICP21	VO20031322
			81.00	82.00		V469820	0.0030	Au-ICP21	VO20031322
			82.00	83.00		V469821	0.0030	Au-ICP21	VO20031322
			83.00	84.00		V469822	0.0020	Au-ICP21	VO20031322
			84.00	85.00		V469823	0.0020	Au-ICP21	VO20031322
			85.00	86.00		V469824	0.0040	Au-ICP21	VO20031322
			86.00	87.00		V469826	0.0060	Au-ICP21	VO20031322
			87.00	88.00		V469827	0.0030	Au-ICP21	VO20031322
63.70	104.00	ST; AM; CC; CL; EP **Serpentinisation; Amphibolitisation; Calcitisation; Chloritisation; Épidotis** Weak to moderate serpentinization, mainly fracture-filling, minor in the matrix. The matrix is altered to amphibole (actinolite), chlorite, patchy calcite, minor epidote.Calcite-filled mm-cm veinlets; more epidote and							

quartz in veins in the lower parts of the unit.Very minor reddish to pink hematite staining on some veinlets and fracture surfaces.

63.70 104.00 PY00.5

Pyrite 0.5%

Traces to 0.5% Py as small anhedral to subhedral grains disseminated in coalesced varioles, fine-grained aggregates in some fractures.

63.70 80.50 FA 30

Fracturé(e) 30°

Weak fracturing and calcite veining. There are two distinct sets of structures: 1) mm-cm veinlets oriented at 27-40CA (mainly 30CA); veinlets are mainly filled by white carbonate (calcite); sometimes weakly foliated.

2) occasional, straight fractures oriented at low core angles (10-15CA), typically straight, with minor calcite on fracture surfaces.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
88.00	89.00		V469828	0.0030	Au-ICP21	VO20031322
89.00	90.00		V469829	0.0020	Au-ICP21	VO20031322
90.00	91.00		V469830	0.0020	Au-ICP21	VO20031322
91.00	92.00		V469831	0.0020	Au-ICP21	VO20031322
92.00	93.00		V469832	0.0020	Au-ICP21	VO20031322
93.00	94.00		V469833	0.0020	Au-ICP21	VO20031322
94.00	95.00		V469834	0.0020	Au-ICP21	VO20031322
95.00	96.00		V469835	0.0050	Au-ICP21	VO20031322
96.00	97.00		V469836	0.0020	Au-ICP21	VO20031322
97.00	98.00		V469837	0.0020	Au-ICP21	VO20031322
98.00	99.00		V469838	0.0020	Au-ICP21	VO20031322
99.00	100.00		V469839	0.0020	Au-ICP21	VO20031322
100.00	101.00		V469841	0.0020	Au-ICP21	VO20031322
101.00	102.00		V469842	0.0020	Au-ICP21	VO20031322
102.00	103.00		V469843	0.0020	Au-ICP21	VO20031322
103.00	104.00		V469844	0.0020	Au-ICP21	VO20031322

From	To	Description
104.00	**107.20**	V4

Volcanique ultramafique

Ultramafic volcanic rock.

Dark to medium grey with bluish and greenish shades, fine-grained, in parts medium-grained, massive, rather homogeneous. The matrix is composed of pale bluish grey, carbonatized (calcite to dolomite) plagioclase masses and discrete, anhedral grains, and of tiny serpentinized and amphibolized (actinolite) ferromagnesian grains. Moderately soft to moderately hard to scratch.

Magnetism: non-magnetic.Structure: weak fracturing, generally at 45-65CA with white calcite and black serpentine infilling.

Mineralization: traces Py.The lower limit of the interval is marked at the approximate beginning of a deformation zone.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
104.00	105.00		V469845	0.0030	Au-ICP21	VO20031322
105.00	106.00		V469846	0.0020	Au-ICP21	VO20031322
106.00	107.00		V469847	0.0010	Au-ICP21	VO20031322

104.00 107.20 ST; AM; CC

Serpentinisation; Amphibolitisation; Calcitisation

Pervasive moderate serpentinization, amphibolization (actinolite) and carbonatization. Black serpentine and white calcite in fractures and veinlets.Carbonate reacts to HCl but produces a moderate effervescence.

104.00 107.20 PYtr

Pyrite tr

Traces of disseminated pyrite.

104.00 107.20 FA

Fracturé(e)

Weak fracturing; joints are filled by white calcite. Black serpentine often fills irregular fractures.

From	To	Description
107.20	**114.70**	V4; CS **Volcanique ultramafique; Cisaillé** Continuation of the Ultramafic volcanic rock. A Brittle-Ductile deformation zone.Same serpentinized ultramafics as above. The intensity of deformation gradually increases downhole. The matrix becomes softer, with stronger pervasive calciite and serpentine alteration. Magnetism: mostly non-magnetic. Weakly magnetic spots at 111-112 m. From 114.0 to 114.7 m - weakly magnetic. Structure: Intermittently-developed, weak to moderate foliation at 30-45CA in the upper parts and stronger foliation at 45-55CA n the lower parts. The intensity of foliation increases towards the fault zone at 113.9 m. Serpentine fabrics define the foliation, as well as numerous white calcite veinlets, mm-cm wide. Some veinlets are boudinaged, fragmented. There are also some calcite veinlets which crosscut the foliation and are often slightly folded. One calcite vein is 5 cm wide, with rims at 40-45CA. 113.9 m - a fault zone, 3 cm wide, at 50-55CA, composed of fault gouge and microbreccia. 114.0-114.7 m – a sheared interval, foliated at 45-50CA, magnetic, mineralized by 0.5-2% Py.114.5 m - broken core with loose microbreccia and some gouge.At 114.7 m, there are distinct changes in composition, magnetism. This is probably a contact between ultramafic and mafic volcanics overprinted by a shear zone. Mineralization: traces to 0.5% Py small grains in some calcite veinlets, locally fine-grained aggregates in foliation planes. From 112.5 m, 0.5-2% Py fine, disseminated grains.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
107.00	108.00		V469848	0.0020	Au-ICP21	VO20031322
108.00	109.00		V469849	0.0030	Au-ICP21	VO20031322
109.00	110.00		V469850	0.0020	Au-ICP21	VO20031322
110.00	111.00		V469851	0.0020	Au-ICP21	VO20031322
111.00	112.00		V469852	0.0020	Au-ICP21	VO20031322
112.00	113.00		V469853	0.0050	Au-ICP21	VO20031322
113.00	114.00		V469854	0.0220	Au-ICP21	VO20031322
114.00	114.70		V469855	0.0020	Au-ICP21	VO20031322

107.20 114.70 ST; CC

Serpentinisation; Calcitisation

(calcite).Very weak pink hematite staining near the lower contact.

107.20	112.50	PYtr	
		Pyrite tr	
		Traces to 0.5% Py small grains in some calcite veinlets, locally fine-grained aggregates in foliation planes.	
112.50	114.70	PY01.5	
		Pyrite 1.5%	
		0.5-2% Py fine, disseminated grains, in some calcite veinlets.	
107.60	107.61	FA	15
		Fracturé(e) 15°	
		A straight fracture at 15CA.	
107.80	112.50	CS	30
		Cisaillé(e) 30°	
		Gradually increasing intensity of shearing; weakly to moderately-developed foliation at 25-35CA.5-7% white calcite veinlets, mm-cm wide, generally oriented parallel to the foliation and some irregular veinlets crosscutting it.	
112.50	113.90	CS	50
		Cisaillé(e) 50°	
		Sheared interval with moderately to strongly-developed foliation at 45-55CA. Numerous white calcite veinlets parallel to the foliation planes.	
113.90	113.93	FJ; T1C; T1A	55
		Faille 55°; Boue de faille; Brèche de faille	
		A 3 cm wide fault zone at ~55CA with incohesive clay gouge (80%) and small, angular to subangular pieces of microbrecciated wallrock. Traces fine Py.	
113.93	114.70	CS; T1A	45
		Cisaillé(e) 45°; Brèche de faille	
		Strongly sheared interval with well to moderately-developed foliation at 45-50CA, with numerous white calcite veinlets in the foliation planes.At 114.5 m - broken core with loose microbreccia and some gouge.	

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description
114.70	**116.00**	V3F; CS **Basalte hyper-magnésien 50°; Cisaillé** Basalt or Magnesian Basalt, strongly sheared. Brittle-Ductile deformation zone.The interval has a mottled appearance, medium to dark grey, greenish grey and pale grey. The matrix is fine-grained, chloritized, amphibolized (actinolite), possibly weakly serpentinized, strongly carbonatized. Numerous greyish white calcite mm veinlets parallel to the foliation. Locally minor pink hematite staining. Locally minor fine, beige to white leucoxene specks. Magnetism: strong to weak.Structure: well-developed foliation at 50-55CA in the upper parts and decreasing to 45-35CA towards the lower limit of the zone. Mineralization:1-3% Py fine to med-size subhedral to euhedral, disseminated grains.The lower limit of the zone is quite distinct by the end of strong foliation, at 35CA.
114.70	116.00	CC; CL; AM **Calcitisation; Chloritisation; Amphibolitisation** Moderate to strong pervasive chloritization, amphibolization (actinolite) and carbonatization (calcite), possibly weak serpentinization. Numerous greyish white calcite mm veinlets oriented parallel to the foliation. Locally minor pink hematite staining. Locally minor fine, beige to white, disseminated specks of leucoxene.
114.70	116.00	PY02 **Pyrite 2%** 1-3% Py fine to med-size, subhedral to euhedral, disseminated grains.
114.70	116.00	CS 50 **Cisaillé(e) 50°** Strongly sheared interval with a well-developed foliation at 50-55CA in the upper parts and decreasing to 45-35CA at the lower limit of the zone.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
114.70	115.35		V469857	0.0040	Au-ICP21	VO20031322
115.35	116.00		V469858	0.0020	Au-ICP21	VO20031322

116.00 123.40 V3B

Basalte 35°

Basalt, strongly fractured, epidotized.

The interval has a mottled, chaotic appearance, strongly fractured and patchy epidotized. The matrix is fine-grained, dark green-grey, chloritized, amphibolized. The upper 1.5 m interval is patchy carbonatized and possibly weakly serpentinized. Some epidotized patches resemble flow breccia. Epidote alteration increases downhole and becomes very strong in the lower half of the interval. Minor red, earthy hematite on some fracture surfaces and locally weak pink staining.

Magnetism: variable, patchy, weak to strong. Very fine magnetite aggregates are seen in some fractures and in purplish white calcite-magnetite veinlets.

Structure: the interval is strongly fractured, blocky core; locally weakly foliated. The intensity of deformation increases downhole.

There is a stockwork of variably oriented sub-mm to 1-2 mm fractures filled by epidote and calcite. Calcite-filled fractures/tension gashes appear younger, crosscutting epidote-filled fractures at 30-50CA.120.3-123.4 m - an intensely fractured, highly epidotized interval with some purple Cal-Mgt veinlets oriented at 5-15CA. Common dissolution cavities along fractures.

Mineralization: traces to 0.5% Py small disseminated grains, in some fractures.The lower limit of the unit is marked at the end of intense epidotization.A strongly fractured and strongly epidotized zone in Basalt to Mg-Basalt, blocky core, fractures at 40CA and 10-20CA, dissolution cavities.

Patchy magnetism.

Traces of very fine Py.

116.00 117.60 CL; AM; CC

Chloritisation; Amphibolitisation; Calcitisation

Moderate to strong pervasive chloritization, amphibolization, carbonatization (calcite). Locally weak patchy epidotization.

117.60 120.30 EP; CL; AM

Épidotisation; Chloritisation; Amphibolitisation

Moderate to strong epidotization - patchy and fracture-filling. Moderate pervasive chloritization, amphibolization in the matrix. Calcite in late fractures and tension gashes.Minor red, earthy hematite on some fracture surfaces.

116.00	117.00	V469859	0.0020	Au-ICP21	VO20031322
117.00	118.00	V469860	0.0020	Au-ICP21	VO20031322
118.00	119.00	V469861	0.0020	Au-ICP21	VO20031322
119.00	120.00	V469862	0.0010	Au-ICP21	VO20031322
120.00	121.00	V469863	0.0020	Au-ICP21	VO20031322
121.00	122.00	V469864	0.0010	Au-ICP21	VO20031322
122.00	122.70	V469865	0.0010	Au-ICP21	VO20031322
122.70	123.40	V469866	0.0010	Au-ICP21	VO20031322

120.30	123.40	EP; CC; MG	
		Épidotisation; Calcitisation; Magnétite	
		Intense pervasive to patchy epidotization. Purplish calcite+magnetite veinlets. Very minor pink hematite staining.	
116.00	123.40	PY00.25	
		Pyrite 0.25%	
		Traces to 0.5% Py small disseminated grains, in some fractures.	
116.00	117.60	FA	30
		Fracturé(e) 30°	
		Moderately fractured interval at 25-35CA; in places faintly foliated.	
117.60	120.30	FA	
		Fracturé(e)	
		Strongly fractured; a stockwork of variably oriented sub-mm to 1-2 mm fractures filled by epidote and calcite. Calcite-filled fractures/tension gashes appear younger, crosscutting epidote-filled fractures at 30-50CA.Fractures give the rock a brecciated appearance.	
120.30	123.40	FA; CS	15
		Fracturé(e); Cisaillé(e) 15°	
		An intensely fractured, highly epidotized interval with some purple Cal-Mgt veinlets oriented at 5-15CA. Common dissolution cavities along fractures.	

From	To	Description
123.40	**128.50**	V3B; CS
		Basalte; Cisaillé
		Basalt, carbonatized, sheared. The rock is medium to dark grey. greenish grey, with minor pinkish, hematite-stained patches. The matrix is fine-grained, pervasively carbonatized (calcite), chloritized and amphibolized, with fine, disseminated, beige specks of leucoxene. No epidote alteration. Magnetism: moderate to strong due to the presence of fine-grained Mgt in fractures, calcite veinlets. Structure: the interval is sheared and fractured, with intermittently-developed, weak to strong foliation at 50-60CA.Foliation is defined by chlorite fabrics and parallel calcite veinlets/mm bands. At 125.8-126.5 m - fractures and calcite veinlets at 5-15CA.Mineralization: 0.5 to 2% Py as fine to med-size, disseminated, euhedral to subhedral grains

From	To	Len	SampleID	Au (ppm)	Method	Certificate
123.40	124.40		V469867	0.0020	Au-ICP21	VO20031322
124.40	125.40		V469868	0.0010	Au-ICP21	VO20031322
125.40	126.40		V469869	0.0040	Au-ICP21	VO20031322
126.40	127.40		V469870	0.0030	Au-ICP21	VO20031322
127.40	128.50		V469871	0.0030	Au-ICP21	VO20031322

and fine to medium-grained, irregular-shaped aggregates.

The lower limit of the unit is marked at the beginning of epidote alteration.

123.40 128.50 CC; CL; AM; LX

Calcitisation; Chloritisation; Amphibolitisation; Leucoxene

Pervasive, moderate to strong carbonatization (calcite), chloritization and amphibolization of the matrix. Weak fine, disseminated leucoxene. Locally minor pink hematite staining.

123.40 128.50 PY01.5

Pyrite 1.5%

Traces to 1-2% Py fine to med-size disseminated subhedral to euhedral grains and fine to medium-grained, irregular-shaped aggregates.

123.40 128.50 CS 50

Cisaillé(e) 50°

The interval is sheared and fractured, with intermittently-developed, weak to strong foliation at 50-60CA. Foliation is defined by chlorite fabrics and parallel calcite veinlets/mm bands. Near the lower end of the interval, foliation is at 40CA.At 125.8-126.5 m - fractures and calcite veinlets at 5-15CA.

From	To	Description
128.50	**138.30**	V3B; VA **Basalte; Variolaire** Basalt, mafic flow with localized variolitic textures. The rock has a mottled appearance due to abundant yellowish epidotized patches in dark to medium grey-green matrix. The matrix is fine-grained, locally aphanitic, with localized yellowish, epidotized varioles and flow breccia. Magnetism: variable, patchy, weak to strong. Puplish calcite veins contain fine Mgt and probably specular Hem Structure: moderate fracturing, blocky core, common dissolution cavities along fractures and in some varioles. Some fractures are oriented at 0-15CA. Mineralization: traces to 0.5% Py.
128.50	138.30	EP; CL; AM **Épidotisation; Chloritisation; Amphibolitisation** Moderate to strong patchy epidotization. Epidotized varioles, flow breccia

From	To	Len	SampleID	Au (ppm)	Method	Certificate
128.50	129.50		V469872	0.0020	Au-ICP21	VO20031322
129.50	130.25		V469874	0.0030	Au-ICP21	VO20031322
130.25	131.00		V469875	0.0030	Au-ICP21	VO20031322
131.00	132.00		V469876	0.0030	Au-ICP21	VO20031322
132.00	133.00		V469877	0.0030	Au-ICP21	VO20031322
133.00	134.00		V469878	0.0010	Au-ICP21	VO20031322
134.00	135.00		V469879	0.0040	Au-ICP21	VO20031322
135.00	136.00		V469880	0.0030	Au-ICP21	VO20031322
136.00	137.00		V469881	0.0030	Au-ICP21	VO20031322
137.00	138.00		V469882	0.0020	Au-ICP21	VO20031322

epidote in fractures.The matrix is grey-green, chloritized, amphibolized.Calcite in fractures, not in the matrix. Occasional fragmented purplish calcite+magnetite veinlets. Locally minor red, earthy hematite on fracture surfaces.

128.50 138.30 PYtr

Pyrite tr

Traces to 0.5% Py.

128.50 138.30 FA

Fracturé(e)

Moderately to strongly fractured, blocky core.

From	To	Description
138.30	**177.00**	V3B; BQ **Basalte; Brèche de coulée** Basalt, mafic flow with localized flow breccia, patchy epidotized. Medium grey-green, fine-grained matrix with pale yellowish white, anhedral Plg grains and fine-grained Plg aggregates. Locally irregular, epidotized patches which resemble flow breccia. Possibly pillowed. Epidotized patches and Plg aggregates give the rock a mottled appearance. Minor red, earthy hematite on some fracture surfaces. Locally minor leucoxene. From 139.5 to 144 m and from 169 to 171 m, there are several reddish to purplish grey intermediate dykes, 5 to 40 cm wide, with distinct contacts at 45CA. XRF shows elevated REEs, Th, Zr, Ba. Possibly alkali syenite.At 171.65-171.8 m - Ca-carbonatite dyke, mineralized by 5% fine Py Magnetism: moderate to strong magnetism in the upper parts. From ~146 m, variable magnetism - from weak-moderate to none. Structure: weak to moderate fracturing, calcite and epidote-filled fractures, mm-cm veinlets. Locally small foliated/sheared zones with foliation at 15-20CA. Mineralization: traces to 1% Py as disseminated subhedral grains and medium-grained aggregates in some fractures. Locally 1-2% Py in patchy bleached (carbonatized) basalt.
139.47	139.60	I2 **Intrusif intermédiaire 45°** Intermediate dyke with distinct parallel contacts at 45CA, 9-10 cm wide.The upper 6 cm of the dyke is fine to medium-grained, medium red-grey to olive grey, massive, uniform, with tiny leached cavities and minor

From	To	Len	SampleID	Au (ppm)	Method	Certificate
138.00	139.00		V469883	0.0010	Au-ICP21	VO20031322
139.00	140.00		V469884	0.0030	Au-ICP21	VO20031322
140.00	141.00		V469885	0.0080	Au-ICP21	VO20031322
141.00	142.00		V469886	0.0060	Au-ICP21	VO20031322
142.00	143.00		V469887	0.0030	Au-ICP21	VO20031322
143.00	144.00		V469889	0.0030	Au-ICP21	VO20031322
144.00	145.00		V469890	0.0040	Au-ICP21	VO20031322
145.00	146.00		V469891	0.0020	Au-ICP21	VO20031322
146.00	147.00		V469892	0.0020	Au-ICP21	VO20031322
147.00	148.00		V469893	0.0020	Au-ICP21	VO20031322
148.00	149.00		V469894	0.0020	Au-ICP21	VO20031322
149.00	150.00		V469895	0.0030	Au-ICP21	VO20031322
150.00	151.00		V469896	0.0070	Au-ICP21	VO20031322
151.00	152.00		V469897	0.0030	Au-ICP21	VO20031322
152.00	153.00		V469898	0.0030	Au-ICP21	VO20031322
153.00	154.00		V469899	0.0030	Au-ICP21	VO20031322
154.00	155.00		V469900	0.0030	Au-ICP21	VO20031322
155.00	156.00		V469901	0.0040	Au-ICP21	VO20031322
156.00	157.00		V469902	0.0050	Au-ICP21	VO20031322
157.00	158.00		V469903	0.0120	Au-ICP21	VO20031322
158.00	159.00		V469905	0.0060	Au-ICP21	VO20031322
159.00	160.00		V469906	0.0200	Au-ICP21	VO20031322
160.00	161.00		V469907	0.0040	Au-ICP21	VO20031322
161.00	162.00		V469908	0.0020	Au-ICP21	VO20031322
162.00	163.00		V469909	0.0040	Au-ICP21	VO20031322
163.00	164.00		V469910	0.0020	Au-ICP21	VO20031322

disseminated Lx, weakly carbonatized, magnetic, non-mineralized.The lower 3-4 cm portion of the dyke is texturally and compositionally different from the upper part and is separated by a distinct contact at 45CA. It is medium pink-grey, porphyritic, weakly magnetic, non-mineralized.Both parts have elevated REEs, Th, Zr, Ba.

140.00 140.05 I2

Intrusif intermédiaire 45°

Intermediate dyke with distinct parallel contacts at 45CA.Medium pink-grey, weakly porphyritic. XRF shows elevated REEs.

140.85 141.00 I2

Intrusif intermédiaire 45°

Intermediate dyke with distinct, parallel contacts at 45CA, 5 cm wide.Dark purplish grey, fine-grained, weakly magnetic, weakly carbonatized.

141.75 142.05 I2

Intrusif intermédiaire 45°

Intermediate dyke with distinct, parallel contacts at 45CA.Purplish grey, pink, fine to medium-grained, weakly porphyritic, weakly carbonatized, weakly magnetic, with fine beige leucoxene. Traces Py.XRf shows elevated REEs, Th.

143.50 144.00 I2

Intrusif intermédiaire

Intermediate dyke with distinct but broken contacts,Medium to dark pink-red-grey, fine-grained, weakly pophyritic with distinct Qz and Plg anhedral phenocrysts. Non-magnetic, weakly carbonatized, with frequent small dissolution cavities. Minor epidote in fractures. Traces Py.

169.00 171.00 I2

Intrusif intermédiaire 20°

Several intermediate dykes and dykelets, 1 cm to 25 cm wide, with somewhat distinct contacts at 10-25CA.Medium to dark pink-grey to mauve, fine to medium-grained, locally weakly porphyritic, weakly magnetic to non-magnetic, moderately to strongly carbonatized (calcite), with fine, beige, disseminated leucoxene. Mineralized by traces to 1% small to med-size cubic grains.XRF shows elevated REEs, Th.

171.65 171.80 I4Q

Carbonatite 15°

6 cm wide, grey Ca-carbonatite dyke with parallel contacts at 15CA. The dyke is weakly foliated with foliation developed also at 15CA.Contains fine disseminated Mgt grains, green Amph/Chl in fractures. Mineralized by 5% fine Py.

164.00	165.00	V469911	0.0020	Au-ICP21	VO20031322
165.00	166.00	V469912	0.0010	Au-ICP21	VO20031322
166.00	167.00	V469913	0.0030	Au-ICP21	VO20031322
167.00	168.00	V469914	0.0100	Au-ICP21	VO20031322
168.00	169.00	V469915	0.0140	Au-ICP21	VO20031322
169.00	170.00	V469916	0.0100	Au-ICP21	VO20031322
170.00	171.00	V469917	0.0060	Au-ICP21	VO20031322
171.00	172.00	V469918	0.0130	Au-ICP21	VO20031322
172.00	173.00	V469919	0.0020	Au-ICP21	VO20031322
173.00	174.00	V469920	0.0040	Au-ICP21	VO20031322
174.00	175.00	V469922	0.0030	Au-ICP21	VO20031322
175.00	176.00	V469923	0.0030	Au-ICP21	VO20031322
176.00	177.00	V469924	0.0060	Au-ICP21	VO20031322

138.30 166.40 EP; CL; AM

Épidotisation; Chloritisation; Amphibolitisation

Moderate to strong epidotization - patchy, fracture-filling, epidotization / saussuritization of Plg grains and aggregates. Moderate pervasive chloritization, amphibolization in the matrix. Calcite in fractures and tension gashes.Minor red, earthy hematite on some fracture surfaces.

166.40 172.00 CC; CL; AM; HM

Calcitisation; Chloritisation; Amphibolitisation; Hématisation

Weak patchy bleaching of the matrix due to moderate to strong carbonatization (calcite). The matrix is green-grey, chloritized and amphibolized. Remnant epidotization on the flanks of the interval. Reddish hematitization in intermediate dykes. Minor disseminated leucoxene. White calcite and green chlorite/amphibole in fractures.

172.00 177.00 EP; CL; AM; CC

Épidotisation; Chloritisation; Amphibolitisation; Calcitisation

Moderate to strong epidotization - patchy and fracture-filling. Moderate pervasive chloritization, amphibolization in the matrix. Calcite in fractures, veinlets and minor patchy in the matrix.

138.30 167.00 PY00.5

Pyrite 0.5%

Traces to 0.5-1% Py fine to med-size subhedral grains, medium-grained aggregates in some fractures.

167.00 168.65 PY01

Pyrite 1%

0.5 to 2% Py fine to med-size cubic grains disseminated in patchy bleached, calcitized basalt.

168.65 171.00 PY00.5

Pyrite 0.5%

Traces to 0.5-1% Py small cubic grains disseminated in intermediate dykes and in the host basalt.

171.00 171.65 PY01.5

Pyrite 1.5%

1-2% Py fine grains and aggregates associated with low-angle fractures.

171.65 171.80 PY05

Pyrite 5%

5-7% fine Py in a Ca-carbonatite dyke.

171.80 177.00 PY00.25

Pyrite 0.25%

Traces to 0.5% Py medium-grained aggregates and disseminated grains.

138.30 141.30 FA

Fracturé(e)

Fracture(e)

1-2% tension veinlets, mm-cm wide, filled by white calcite, typically oriented at 35-50CA.

160.05 161.25 CS; PS 25

Cisaillé(e) 25°; Plissé(e)

A small foliated (sheared?) zone, 2-5 cm wide, forming a fold with slopes dipping at 25CA. The foliation is traced by calcite and chains of fine Mgt grains.

167.00 167.40 FA; CS 27

Fracturé(e) 27°; Cisaillé(e)

A small fractured, sheared zone with weakly-developed foliation at 25-30CA.

168.00 168.45 FA 40

Fracturé(e) 40°

Fractured, slightly bleached basalt. Fractures are filled by green Chl/Amph and typically oriented at 25-45CA.

168.45 172.00 FA 15

Fracturé(e) 15°

Fractures at 10-20CA. Intermediate dykes and a carbonatite dyke have contacts parallel to these fractures.

172.00 177.00 FA

Fracturé(e)

Moderate fracturing, a stockwork of hairline to mm-cm fractures and veinlets, filled by epidote+/-calcite and oriented at a wide range of angles (35-75CA).

From	To	Description
177.00	**179.60**	V3B; AM **Basalte; Amygdalaire** Description: Basalt with patchy amygdaloidal flow. Magnetic. Color: green-grey Granulation: medium grain to finer grainTexture: massive with minor localized amygdules Structure: numerous epidote-filled fractures and epidotized patches up to 20% of the unit. Mostly 50-60 deg tca fractures increasing. 178.6m-178.8m two white calcite/qtz/serpentine filled veinlets crosscutting through at 25 deg tca following to 179.3m with Ep/calcite hairline filled fracture network to stockwork. Alteration: Intense pervasive calcitic, with strong epidotization to Ep patches to fracture filling. Strong semipervasive silicification to strong patches. Matrix.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
177.00	178.00		V469925	0.0080	Au-ICP21	VO20031322
178.00	179.00		V469926	0.0060	Au-ICP21	VO20031322
179.00	180.00		V469927	0.0060	Au-ICP21	VO20031322

Increasing. Minor serpentinization with moderate pervasive chlorite/minor actinolite in matrix, with minor hematite stain to faint in and around Ep patches.

Mineralization: Up to 1% mg to rare cubes, diss'd subhedral overall with up to 3% cg to blebby Py at LC (179.5-179.6m).Contacts:

Lower contacts is flow breccia with frequent dissolution cavities at 40 deg tca.

Mineralized up to 3% mg to cg diss'd to fract filling Py.

177.00 179.60 EP; CC; SI; CL; AM; ST

Épidotisation; Calcitisation; Silicification; Chloritisation; Amphibolitisation

Intense pervasive calcitization, strong epidotization, patchy and fracture-filling. Strong patchy silicification. Minor serpentinization with moderate pervasive chloritization/amphibolization in matrix. Minor hematite stains in and around Ep patches.

177.00 179.60 PY01

Pyrite 1%

Up to 1% mg to rare cubes, diss'd subhedral overall with up to 3% cg to blebby Py at LC (179.5-179.6m).

177.00 178.60 FA

Fracturé(e)

Numerous epidote-filled fractures and epidotized patches making up to 20% of the unit. Mostly 50-60 deg tca fractures.

178.60 179.30 FA

Fracturé(e)

178.6-178.8m - two white calcite/quartz/serpentine filled veinlets crosscutting through at 25 deg tca following to 179.3m with epidote/calcite hairline filled fracture network to stockwork.

From	To	Description
179.60	**185.10**	V3B; AM; BQ **Basalte; Amygdalaire; Brèche de coulée** Description: Amygdaloidal Basalt with flow breccia Color: green to epidote bleachedGranulation: fine grain, to aphanic. Texture: amygdules with strong localized flow breccia Structure: numerous epidote-filled fractures and epidotized patches up to

From	To	Len	SampleID	Au (ppm)	Method	Certificate
180.00	181.00		V469928	0.0030	Au-ICP21	VO20031322
181.00	182.00		V469929	0.0030	Au-ICP21	VO20031322
182.00	183.00		V469930	0.0030	Au-ICP21	VO20031322
183.00	184.00		V469931	0.0020	Au-ICP21	VO20031322
184.00	185.00		V469932	0.0020	Au-ICP21	VO20031322

80% of the unit.One cavity dissolution possibly a fault at 181.2m-181.3m at 40 deg tca Ep/Amphibole/Sericite with strong pervasive carbonatization(calcite). Mineralized up to 2% cg euhedral to small cubes diss'd to fract filling. One cavity dissolution unit at 183.07m-183.3m with stringer leaching Ep/Carbonate/Sericite alteration zoning.

Alteration: Intense carbonatization, strong epidotization to Ep patches to fracture filling. Moderate ipervasive silicification, with actinolite around amygdule rims breccia matrix. Thin bands of sericitization immediate to cavities to fract filling. weak chlorite patches. Strong serpentine along carbonate.network fracture filling, hematite is weak to moderate patches to spotty next to Ep patches.Moderate patchy magnetic

Mineralization: Up to 1% cg to cubes, diss'd ehuidral to subhedral overall with up to 3% cg to euhedral cubes in and around cavities

Contacts: Lower contacts is graditional with up to 10% hair line Ep filling fracture network at 50 deg tca. MNZ up to 2% mg to blebby Py to fract controlled.

179.60 181.20 EP; CB

Épidotisation; Carbonatisation

A strongly epidotized interval with frequent dissolution cavities.

181.20 185.10 CB; EP; SR; SI; AM; HM

Carbonatisation; Épidotisation; Séricitisation; Silicification; Amphibolitisat

Intense carbonatization, strong epidotization, patchy and fracture-filling. Moderate pervasive silicification. Actinolite around amygdule rims, breccia and in the matrix. Thin bands of sericitization immediate to cavities to fracture-filling. Weak chlorite patches. Strong serpentine along carbonate-filled fractures. Weak to moderate hematite patches, often spotty next to epidote patches. Moderate patchy magnetism.

179.60 181.20 PY01

Pyrite 1%

Up to 1% Py cg to cubes, diss'd euhedral to subhedral overall with up to 3% cg to euhedral cubes in and around cavities.

181.20 182.30 PY03

Pyrite 3%

3% Py cg to euhedral cubes in and around cavities

179.60 181.20 FA

Fracturé(e)

Numerous erratic epidote-filled fractures and epidotized patches up to

80% of the unit.

181.20 182.30 FJ

Faille

One cavity dissolutoin possibly a fault at 181.2m-181.3m at 40 deg tca Ep/Amphibole/Sericite with strong pervasive carbonatization(calcite).Mineralized up to 2% cg euhidral to small cubes diss'd to fract filling. One cavity dissolution unit at 183.07m-183.3m with stringer leaching Ep/Carbonate/Sericite alteration zoning.

From	To	Description
185.10	**245.80**	V3B; BQ; AM **Basalte; Brèche de coulée; Amygdalaire** Continuation of Basalt, mafic flow, pillowed, with flow breccia and amygdules, medium to dark green-grey with frequent epidotized patches, minor reddish Hem/K patches. Variably magnetic (non- to mod). Traces to 1-2% Py diss, aggregates in fractures. 185.1m-199.9m Amygdaloidal mafic flow, green to grey fine grained to aphanitic, faint amygdules mm size, carbonate/epidote/chlorite/biotite alteration zoning. Magnetic. .moderate hematite stains. Epidotization is patchy to fracture filling, Moderate to strong epidote filled fractures at 50 deg tca overall. One cavity dissolution at 196m-196.1m and 199.6m-199.7m with up to 3% mg to cg Py cubes to diss'd. Moderate deformation at low angle increaisng down apex 199.8m-199.9m low angle 35 deg tca calcite filled shear veinlet with Ep/actinolte envelope crosscutting. MNZ <1% fg Py. MIneralization up to 1% fg diss'd to mg small cubes overall. 199.9m-233.8m Flow breccia, mottled, green matrix with Epidote-leached overprinting patches. Strong Ep/patches to fracture filling with moderate to strong increasing silicification. Around 10% K/Hematite spotty alteration throughout. Highly Ep filled fractured unit at 55-60 deg tca overall with a gougy cavity dissolution at 200.8m-202.3m, 229.4m-231.8m non competent core strong epidotization, Fe-carbonate, weak to moderate silicification. Mineralization up to 0.5% Py mg diss'd,Mineralization is up to 1% mg to small cubes overall with up to 2% locally (204m-204.6m, 219.9m-220.1m Py/K/Hem assemblage, 214m-214.3m, 218.3m-218.4m Py/Fe-carbonate/hematite assemblage)233.8m-240m strongly fractured zone with < 2% 5cm core length flow breccia. green matrix, fine grained to aphanitic, faint amygdaloidal flows. ¬10% epidote filled fractures hairline to mm size at 40 to 50 deg tca with later calcite filled fractures 70 deg tca crosscuting. two major fracture orientations are noted 50-65 deg tca mostly calcite filled fractures and 40-50 deg tca ep filled fractures. Microbreccia present at 235.3m-235.4m

From	To	Len	SampleID	Au (ppm)	Method	Certificate
185.00	186.00		V469933	0.0030	Au-ICP21	VO20031322
186.00	187.00		V469934	0.0040	Au-ICP21	VO20031322
187.00	188.00		V469935	0.0030	Au-ICP21	VO20031322
188.00	189.00		V469937	0.0030	Au-ICP21	VO20031322
189.00	190.00		V469938	0.0030	Au-ICP21	VO20031322
190.00	191.00		V469939	0.0040	Au-ICP21	VO20031322
191.00	192.00		V469940	0.0040	Au-ICP21	VO20031322
192.00	193.00		V469941	0.0030	Au-ICP21	VO20031322
193.00	194.00		V469942	0.0030	Au-ICP21	VO20031322
194.00	195.00		V469943	0.0010	Au-ICP21	VO20031322
195.00	196.00		V469944	0.0020	Au-ICP21	VO20031322
196.00	197.00		V469945	0.0040	Au-ICP21	VO20031322
197.00	198.00		V469946	0.0030	Au-ICP21	VO20031322
198.00	199.00		V469947	0.0030	Au-ICP21	VO20031322
199.00	200.00		V469948	0.0030	Au-ICP21	VO20031322
200.00	201.00		V469949	0.0030	Au-ICP21	VO20031322
201.00	202.00		V469950	0.0020	Au-ICP21	VO20031322
202.00	203.00		V469951	0.0020	Au-ICP21	VO20031322
203.00	204.00		V469953	0.0050	Au-ICP21	VO20031325
204.00	205.00		V469954	0.0080	Au-ICP21	VO20031325
205.00	206.00		V469955	0.0040	Au-ICP21	VO20031325
206.00	207.00		V469956	0.0040	Au-ICP21	VO20031325
207.00	208.00		V469957	0.0040	Au-ICP21	VO20031325
208.00	209.00		V469958	0.0030	Au-ICP21	VO20031325
209.00	210.00		V469959	0.0030	Au-ICP21	VO20031325
210.00	211.00		V469960	0.0030	Au-ICP21	VO20031325
211.00	212.00		V469961	0.0030	Au-ICP21	VO20031325
212.00	213.00		V469962	0.0040	Au-ICP21	VO20031325

From	To	Description
		240.2m-240.25m, Mostly strong epidote/chlorite patchy to filling with chlorite/biotite/serpentine assemblages. Overall strong to intense pervasive to patchy silicification with strong patchy K/Hem/carbonate alteration. Mineralization up to 1% mg to small Py cubes, diss'd overall with up to 3% fg Py fract filling controled, locally(233.6m-234.1m Py/Fe carbonate/Hem/magnetite stringers weak Kspar/sil assemblages, 235.3m-235.4m Py/Hem/Fe carbonate/sil/magnetite assemblage, 237.3m-241.5m approx 2% mg to fg diss'd Py to fract filling Py/Hem/spotty K/sil/magnetite assemblages.236.4m-236.6m Alkali Felsic Intrusive (syenite) faint medium grained porphyritic, orange, to aphanitic, mm size oriented feldspar laths, strongly fractured at 50 deg tca strong Hem/Kspar/sil/carbonate assemblages. Two mm size carbonatite injections concordant with specularite stringers on the contact.Mineralized to 2% mg to fg diss'd to fract filling Py.
236.40	236.60	I2 **Intrusif intermédiaire** An intermediate dykelet (syenite?), red-orange, medium-grained to aphanitic, porphyritic with mm size feldspar laths, strongly fractured at 50 deg tca, strong Hem/Kspar/Sil/carbonate assemblages. Two mm size carbonatite injections concordant with specularite stringers on the contact. Mineralized by 2% Py medium to fine disseminated grains and fracture-filling aggregates.
185.10	199.90	EP; CB; HM **Épidotisation; Carbonatisation; Hématisation** Carbonate/epidote/chlorite/biotite alteration. Moderate hematite stains. Moderate to strong epidotization patchy and fracture-filling.
199.90	233.80	EP; CB; HM; SI **Épidotisation; Carbonatisation; Hématisation; Silicification** Strong patchy and fracture-filling epidotization, moderate to strong increasing silicification. Around 10% reddish K/Hematite spotty alteration throughout.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
213.00	214.00		V469963	0.0040	Au-ICP21	VO20031325
214.00	215.00		V469964	0.0040	Au-ICP21	VO20031325
215.00	216.00		V469965	0.0040	Au-ICP21	VO20031325
216.00	217.00		V469966	0.0030	Au-ICP21	VO20031325
217.00	218.00		V469967	0.0030	Au-ICP21	VO20031325
218.00	219.00		V469968	0.0030	Au-ICP21	VO20031325
219.00	220.00		V469970	0.0040	Au-ICP21	VO20031325
220.00	221.00		V469971	0.0030	Au-ICP21	VO20031325
221.00	222.00		V469972	0.0030	Au-ICP21	VO20031325
222.00	223.00		V469973	0.0030	Au-ICP21	VO20031325
223.00	224.00		V469974	0.0040	Au-ICP21	VO20031325
224.00	225.00		V469975	0.0030	Au-ICP21	VO20031325
225.00	226.00		V469976	0.0030	Au-ICP21	VO20031325
226.00	227.00		V469977	0.0040	Au-ICP21	VO20031325
227.00	228.00		V469978	0.0050	Au-ICP21	VO20031325
228.00	229.00		V469979	0.0030	Au-ICP21	VO20031325
229.00	230.00		V469980	0.0020	Au-ICP21	VO20031325
230.00	231.00		V469981	0.0020	Au-ICP21	VO20031325
231.00	232.00		V469982	0.0030	Au-ICP21	VO20031325
232.00	233.00		V469983	0.0020	Au-ICP21	VO20031325
233.00	234.00		V469985	0.0030	Au-ICP21	VO20031325
234.00	235.00		V469986	0.0030	Au-ICP21	VO20031325
235.00	236.00		V469987	0.0040	Au-ICP21	VO20031325
236.00	237.00		V469988	0.0040	Au-ICP21	VO20031325
237.00	238.00		V469989	0.0040	Au-ICP21	VO20031325
238.00	239.00		V469990	0.0050	Au-ICP21	VO20031325
239.00	240.00		V469991	0.0040	Au-ICP21	VO20031325
240.00	241.00		V469992	0.0040	Au-ICP21	VO20031325
241.00	242.00		V469993	0.0050	Au-ICP21	VO20031325
242.00	243.00		V469994	0.0040	Au-ICP21	VO20031325
243.00	244.00		V469995	0.0040	Au-ICP21	VO20031325
244.00	245.00		V469996	0.0040	Au-ICP21	VO20031325
245.00	246.00		V469997	0.0060	Au-ICP21	VO20031325

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
245.80	**249.10**	V3B; GF **Basalte; Grains fins** Mineralized Brittle-Ductile zoneBasalt, medium to dark grey, without epidote alteration, pervasively carbonatized (calcite), fine to very fine-grained, mod-str magnetic. Weakly to well-developed foliation at 0-10CA. Mineralized by 2-5% Py fine to med diss grains and aggregates	246.00	247.00		V469998	0.0090	Au-ICP21	VO20031325
			247.00	248.00		V469999	0.0150	Au-ICP21	VO20031325
			248.00	249.00		V470001	0.0120	Au-ICP21	VO20031325
245.80	249.10	CC; MG **Calcitisation; Magnétite** Strong pervasive carbonatization (calcite), no epidote alteration; moderate to strong magnetite.							
245.80	249.10	PY04 **Pyrite 4%** 2-5% Py fine to med disseminated grains and aggregates in carbonatized, sheared basalt.							
245.80	249.10	CS 10 **Cisaillé(e) 10°** Weakly to well-developed foliation at 0-10CA in carbonatized and mineralized basalt.							
249.10	**273.50**	V3B; MA; BQ **Basalte; Roche massive; Brèche de coulée** Basalt, mafic flow with localized flow breccia, medium green-grey with moderate, patchy epidote alteration, fine-grained. Variably magnetic (non- to wk-mod). Traces to 1% Py diss, aggregates.272.5-272.7 m – alkali syenite dyke.249.1m-252m mafic flow, green to grey , fine grained, aphanitic with a flow breccia at 249.4m-249.m. faint foliation at 55 deg tca, with strong epidote filled fracturing erratic, hairline to mm size. one 1cm carbonatite unit at 250.8m-250.82m at 35 deg tca. Strong Epidote patches, to fracturing/Fe-carbonate/chlorite assemblage with weak spotty hematite. 252.1m-252.3m one alkali felsic intrusive feldspar laths deformed at approx 45 deg tca faint porphyritic, orange, aphanitic with a 2cm qtz/carb/k spar vein concordant. Mineralization is Py/Hem/carbonate/Lx? in a carbonate/hem/assemblage 252m-255.7m Flow breccia mottled, fine grained to aphanitic matrix, Ep filled	249.00	250.00		V470002	0.0050	Au-ICP21	VO20031325
			250.00	251.00		V470003	0.0060	Au-ICP21	VO20031325
			251.00	252.00		V470004	0.0060	Au-ICP21	VO20031325
			252.00	253.00		V470005	0.0070	Au-ICP21	VO20031325
			253.00	254.00		V470006	0.0040	Au-ICP21	VO20031325
			254.00	255.00		V470007	0.0040	Au-ICP21	VO20031325
			255.00	256.00		V470009	0.0030	Au-ICP21	VO20031325
			256.00	257.00		V470010	0.0030	Au-ICP21	VO20031325
			257.00	258.00		V470011	0.0030	Au-ICP21	VO20031325
			258.00	259.00		V470012	0.0040	Au-ICP21	VO20031325
			259.00	260.00		V470013	0.0060	Au-ICP21	VO20031325
			260.00	261.00		V470014	0.0050	Au-ICP21	VO20031325
			261.00	262.00		V470015	0.0030	Au-ICP21	VO20031325
			262.00	263.00		V470016	0.0030	Au-ICP21	VO20031325
			263.00	264.00		V470017	0.0030	Au-ICP21	VO20031325
			264.00	265.00		V470018	0.0020	Au-ICP21	VO20031325

fractured at around 20% of the unit at 40 deg tca with 10% sil/carb filled fracturing at mainly at 55 deg tca crosscuting. Strong epidote patches to fract filling/carbonate/chlorite with bio patches overall. weak hematite spots.

Mineralization up to 1% mg to fg diss'd to blebby overall.271.5m-273.5m non competent core approx 20% RQD overall fractured , mod Hem increasing, Fe carbonate, magnetic with moderate chlorite/amphibole. Mineralized up to 1% mg to fg Py diss'd to fract filling.

272.50 272.70 I2

Intrusif intermédiaire

An intermediate dyke, probably syenite.

249.10 252.00 EP; CB; CL; HM

Épidotisation; Carbonatisation; Chloritisation; Hématisation

Strong patchy and fracture-filling epidotization, Fe-carbonate/chlorite assemblages with weak spotty hematite.

252.00 255.70 EP; CB; CL; BO; HM

Épidotisation; Carbonatisation; Chloritisation; Biotitisation; Hématisation

Strong patchy and fracture-filling epidotization, carbonate/chlorite with biotite patches overall. Weak hematite spots.

255.70 271.50 EP; CB; CL; HM

Épidotisation; Carbonatisation; Chloritisation; Hématisation

Strong patchy and fracture-filling epidotization, Fe-carbonate/chlorite assemblages with weak spotty hematite.

271.50 273.50 HM; CB; MG; CL; AM

Hématisation; Carbonatisation; Magnétite; Chloritisation; Amphibolitisati

Non-competent core, fractured, moderate hematite, Fe carbonate, magnetic with moderate chlorite/amphibole.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
265.00	266.00		V470019	0.0030	Au-ICP21	VO20031325
266.00	267.00		V470020	0.0050	Au-ICP21	VO20031325
267.00	268.00		V470021	0.0020	Au-ICP21	VO20031325
268.00	269.00		V470022	0.0040	Au-ICP21	VO20031325
269.00	270.00		V470023	0.0030	Au-ICP21	VO20031325
270.00	271.00		V470024	0.0040	Au-ICP21	VO20031325
271.00	272.00		V470026	0.0020	Au-ICP21	VO20031325
272.00	273.00		V470027	0.0020	Au-ICP21	VO20031325
273.00	274.00		V470028	0.0020	Au-ICP21	VO20031325

From	To	Description
273.50	**275.00**	V3B; GF
		Basalte; Grains fins
		Basalt, moderately to strongly fractured, patchy bleached (calcite, minor sericite, weak pink alteration – Hem/K), magnetic. Mineralized by 0.5-2% Py fine to coarse cubic grains.
273.50	275.00	CC; SR; HM; MG
		Calcitisation; Séricitisation; Hématisation; Magnétite

From	To	Len	SampleID	Au (ppm)	Method	Certificate
274.00	275.00		V470029	0.0020	Au-ICP21	VO20031325

Hem/K, magnetic.

From	To	Description
275.00	**283.50**	V3B; GF **Basalte; Grains fins** Basalt, massive, grey to greenish grey, fine-grained, magnetic, carbonatized (calcite), with a localized epidote-altered section, otherwise without epidote. Traces to 0.5% Py.282.8-283.4 m – mafic to ultramafic dyke, biotite-calcite, medium-grained, magnetic. 277.4-279.0 m - epidote leached basalt, fine grained, patchy magnetic, strong epidote patches to fracture filling, up to 30% fractured unit, Mineralized up to 5% mg to fg Py diss'd to blebby, with 2-3% mg Py stringers to fract filling. 281-285m - increased low angle fracturing with strong carbonate/chlorite/hem shear deformation at 20-25 deg tca. Mineralized up to 3% mg to fg blebby to diss;d Py concordant.285.25-285.3m one flat lying alkali syenite (?) at 15 -20 deg tca, porphyritic, cg, altered with cabonate filled veinlet envelope. Carbonate/sericite flakes/amphibole with weak silicification. Mineralized by up to 5% mg to fg diss'd Py.Lower contact is gradational.
282.80	283.40	I4; I3 **Intrusif ultramafique; Intrusif mafique** A mafic to ultramafic dyke (lamprophyre?), biotite-calcite-altered, medium-grained, magnetic.
275.00	277.40	CC; CL; AM; MG **Calcitisation; Chloritisation; Amphibolitisation; Magnétite** Carbonatized (calcite) basalt, magnetic.
277.40	279.00	EP; CB **Épidotisation; Carbonatisation** Epidotized, bleached basalt, strong epidote patches and fracture-filling.
279.00	281.00	CC; CL; AM; MG **Calcitisation; Chloritisation; Amphibolitisation; Magnétite** Carbonatized (calcite) basalt, magnetic.
281.00	283.50	CB; CL; HM; MG **Carbonatisation; Chloritisation; Hématisation; Magnétite** A sheared, strongly fractured interval with strong carbonate/chlorite/hematite alteration.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
275.00	276.00		V470030	0.0050	Au-ICP21	VO20031325
276.00	277.00		V470031	0.0040	Au-ICP21	VO20031325
277.00	278.00		V470032	0.0020	Au-ICP21	VO20031325
278.00	279.00		V470033	0.0010	Au-ICP21	VO20031325
279.00	280.00		V470034	0.0020	Au-ICP21	VO20031325
280.00	281.00		V470035	0.0030	Au-ICP21	VO20031325
281.00	282.00		V470036	0.0030	Au-ICP21	VO20031325
282.00	283.00		V470037	0.0020	Au-ICP21	VO20031325
283.00	284.00		V470038	0.0020	Au-ICP21	VO20031325

From	To	Description
283.50	**297.80**	V3B; GF **Basalte; Grains fins** Brittle-ductile deformation zone in Basalt.Medium grey, without epidote, pervasively carbonatized (calcite), with numerous white calcite veinlets, fractures. Magnetic. Fractures are at 0-25CA (green Amph/Chl, white Cal infill), and at 25-65CA (white calcite infill). Weakly-developed foliation in some places. Weak patchy Biotite, Hematite/K alteration. Mineralized by traces to 2-3% Py fine to med-size diss grains and aggregates in foliation planes.281m-285m increased low angle fracturing with strong carbonate/chlorite/hem shear deformation at 20-25 deg tca. Mineralized up to 3% mg to fg blebby to diss;d Py concordant. 285.25m-285.3m one flat lying alkali syenite at 15 -20 deg tca, porphyritic, cg, altered with carbonate filled veinlet envelope. Carbonate/sericite flakes/amphibole with weak silicification. MIneralized up to 5% mg to fg diss'd Py. 290.4m-297.7m green to grey basalt, massive fine grain with 30% calcite filled fracturing averaging at 40deg tca.highly magnetic, foliated at 40 deg tca One 7cm shear myllonite woth streched biotite/amphibole at 295.1m at 40 deg tca. 10% tension gashes throughout. Carbonate(calcite)/chlorite/amphibole weak hematite. Mineralization is up to 0.5% mg diss'd to Py stringers overall. Lower contact is graditional.
283.50	297.80	CC; CL; AM; HM; BO; MG **Calcitisation; Chloritisation; Amphibolitisation; Hématisation; Biotitisatio** Pervasively carbonatized (calcite) basalt with numerous white calcite veinlets, fractures. No epidote. Fractures are filled by green Amph/Chl, white Cal. Weak patchy Biot, Hem/K alteration. Magnetic.
283.50	290.40	PY01.5 **Pyrite 1.5%** Mineralized by traces to 2-3% Py fine to med-size diss grains, blebby and

From	To	Len	SampleID	Au (ppm)	Method	Certificate
284.00	285.00		V470039	0.0050	Au-ICP21	VO20031325
285.00	286.00		V470041	0.0090	Au-ICP21	VO20031325
286.00	287.00		V470042	0.0030	Au-ICP21	VO20031325
287.00	288.00		V470043	0.0040	Au-ICP21	VO20031325
288.00	289.00		V470044	0.0010	Au-ICP21	VO20031325
289.00	290.00		V470045	0.0020	Au-ICP21	VO20031325
290.00	291.00		V470046	0.0040	Au-ICP21	VO20031325
291.00	292.00		V470047	0.0050	Au-ICP21	VO20031325
292.00	293.00		V470048	0.0080	Au-ICP21	VO20031325
293.00	294.00		V470049	0.0070	Au-ICP21	VO20031325
294.00	295.00		V470050	0.0040	Au-ICP21	VO20031325
295.00	296.00		V470051	0.0030	Au-ICP21	VO20031325
296.00	297.00		V470052	0.0010	Au-ICP21	VO20031325
297.00	298.00		V470053	0.0030	Au-ICP21	VO20031325

aggregates concordant to foliation planes.

290.40 297.80 PY00.5

Pyrite 0.5%

up to 0.5% mg diss'd to Py stringers overall.

283.50 285.00 CS 20

Cisaillé(e) 20°

Brittle-ductile deformation zone in Basalt. Shear deformation at 20-25 deg tca.Fractures are at 0-25CA (green Amph/Chl, white Cal infill) and at 25-65CA (white calcite infill).

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
297.80	**303.40**	V3B; BQ	298.00	299.00		V470054	0.0020	Au-ICP21	VO20031325
		Basalte; Brèche de coulée	299.00	300.00		V470055	0.0020	Au-ICP21	VO20031325
		Epidotized Basalt, strongly fractured, blocky core. Possibly flow breccia.	300.00	301.00		V470057	0.0020	Au-ICP21	VO20031325
			301.00	302.00		V470058	0.0020	Au-ICP21	VO20031325
		Upper unit is strongly amphibole/chlorite/calcite altered with calcite/amphibole filled fractures. 5-10 % calcite filled tension gashes.	302.00	303.00		V470059	0.0020	Au-ICP21	VO20031325
		Green to epidote bleached flow breccia, with intense epidotization, strongly Ep filled fractured, foliated at 70 deg tca. Moderately magnetic. Epidote/carbonate/chlorite with amphibole filling fractures. weak Hem. 1-2% Chlorite/carbonate/amphibole extensional veinlets throughout.							
		Mineralization is up to 0.5% mg to smal cubes disseminated.							
		Lower contact is sheared at 20 deg tca.At 302-302.4m - non-competent interval of broken core, RQD=0%.							
	297.80	303.40 EP; CB; CL; AM; MG; HM							
		Épidotisation; Carbonatisation; Chloritisation; Amphibolitisation; Magnéti							
		Strong amphibole/chlorite/calcite alteration, calcite-filled fractures and tension gashes. Epidotized bleached flow breccia, intense patchy and fracture-filling epidotization. Moderately magnetic, weakpatchy hematite.							
	297.80	303.40 PY00.5							
		Pyrite 0.5%							
		up to 0.5% mg to smal cubes disseminated.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description
303.40	337.50	V3B; MA **Basalte; Roche massive** Brittle-ductile deformation zone in Basalt. Medium grey, without epidote, pervasively carbonatized (calcite), with numerous white calcite veinlets, fractures. Magnetic. Weak patchy pink-red Hem/K alteration, minor biotite. Fractures and localized foliation at 10-20CA; tension gashes filled by white calcite. Mineralized by 0.5-3% Py fine to med grains, disseminated, aggregates in foliation planes and fractures (especially at 10-20CA). 303.4-333m - upper unit strongly deformed with 1-2cm shear bands at 0-20 deg tca overall. Major shear zone at 304m-304.04m flat lying, 305.1-305.12m at 20 deg tca, 332.27-332.35m at 20 deg tca (MNZ) up to 2% mg to fg Py stringers to fracture filling with carbonate/chlorite/amphibole. Up to 0.5% mg Py cubes. Carbonate/chlorite/amphibole patches with mod Hem patches around intense deformation. Mineralization up to 0.5% mg Py cubes. 327-327.6m non-competent core. 333-337.5m carbonate/hematite stronger deformed unit with 20% shear deformation at approx. 20 deg tca. Stretched to elongated carbonate/amphibole noted. Microbreccia noted from 334.9-335.8m. 333.1-334.3m mineralized up to 4% mg to fg diss'd to fract filling Py stringers.At 333 m – a pink carbonatite vein at 20CA.
333.00	333.05	I4Q **Carbonatite 20°** A pink carbonatite vein at 20CA.
303.40	337.50	CC; CL; AM; HM; BO; MG **Calcitisation; Chloritisation; Amphibolitisation; Hématisation; Biotitisatio** Pervasively carbonatized (calcite) basalt with numerous white calcite veinlets, fractures. No epidote. Fractures are filled by green Amph/Chl, white Cal. Weak patchy pink-red Hem/K alteration, minor biotite. Magnetic.Carbonate/chlorite/amphibole patches with moderate hematite patches around intense deformation.
303.40	333.00	PY01 **Pyrite 1%**

From	To	Len	SampleID	Au (ppm)	Method	Certificate
303.00	304.00		V470060	0.0020	Au-ICP21	VO20031325
304.00	305.00		V470061	0.0040	Au-ICP21	VO20031325
305.00	306.00		V470062	0.0040	Au-ICP21	VO20031325
306.00	307.00		V470063	0.0090	Au-ICP21	VO20031325
307.00	308.00		V470064	0.0030	Au-ICP21	VO20031325
308.00	309.00		V470065	0.0030	Au-ICP21	VO20031325
309.00	310.00		V470066	0.0030	Au-ICP21	VO20031325
310.00	311.00		V470067	0.0020	Au-ICP21	VO20031325
311.00	312.00		V470068	0.0020	Au-ICP21	VO20031325
312.00	313.00		V470069	0.0010	Au-ICP21	VO20031325
313.00	314.00		V470070	0.0030	Au-ICP21	VO20031325
314.00	315.00		V470071	0.0040	Au-ICP21	VO20031325
315.00	316.00		V470072	0.0090	Au-ICP21	VO20031325
316.00	317.00		V470074	0.0080	Au-ICP21	VO20031325
317.00	318.00		V470075	0.0040	Au-ICP21	VO20031325
318.00	319.00		V470076	0.0020	Au-ICP21	VO20031325
319.00	320.00		V470077	0.0030	Au-ICP21	VO20031325
320.00	321.00		V470078	0.0090	Au-ICP21	VO20031325
321.00	322.00		V470079	0.0040	Au-ICP21	VO20031325
322.00	323.00		V470080	0.0010	Au-ICP21	VO20031325
323.00	324.00		V470081	0.0030	Au-ICP21	VO20031325
324.00	325.00		V470082	0.0020	Au-ICP21	VO20031325
325.00	326.00		V470083	0.0020	Au-ICP21	VO20031325
326.00	327.00		V470084	0.0010	Au-ICP21	VO20031325
327.00	328.00		V470085	0.0010	Au-ICP21	VO20031325
328.00	329.00		V470086	0.0020	Au-ICP21	VO20031325
329.00	330.00		V470087	0.0020	Au-ICP21	VO20031325
330.00	331.00		V470089	0.0020	Au-ICP21	VO20031325
331.00	332.00		V470090	0.0020	Au-ICP21	VO20031325
332.00	333.00		V470091	0.0080	Au-ICP21	VO20031325
333.00	334.00		V470092	0.0050	Au-ICP21	VO20031325
334.00	335.00		V470093	0.0030	Au-ICP21	VO20031325
335.00	336.00		V470094	0.0030	Au-ICP21	VO20031325
336.00	337.00		V470095	0.0020	Au-ICP21	VO20031325
337.00	338.00		V470096	0.0020	Au-ICP21	VO20031325

From	To	Description
337.50	**360.00**	V3B; MA **Basalte; Roche massive** Highly fractured zone in Basalt, blocky core.Dark greenish grey, fine-grained, magnetic, fractures and tension gashes are filled by white calcite, locally minor epidote in fractures. Dissolution cavities along fractures. Traces Py.
337.50	360.00	CL; AM; CC; EP; MG **Chloritisation; Amphibolitisation; Calcitisation; Épidotisation; Magnétite** Dark greenish grey, chloritized/amphibolized basalt with white calcite-filled tension gashes, locally minor epidote in fractures.
337.50	360.00	PYtr **Pyrite tr** Traces Py.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
338.00	339.00		V470097	0.0010	Au-ICP21	VO20031325
339.00	340.00		V470098	0.0010	Au-ICP21	VO20031325
340.00	341.00		V470099	0.0010	Au-ICP21	VO20031325
341.00	342.00		V470100	0.0010	Au-ICP21	VO20031325
342.00	343.00		V470101	0.0010	Au-ICP21	VO20031325
343.00	344.00		V470102	0.0010	Au-ICP21	VO20031325
344.00	345.00		V470103	0.0005	Au-ICP21	VO20031327
345.00	346.00		V470105	0.0005	Au-ICP21	VO20031327
346.00	347.00		V470106	0.0005	Au-ICP21	VO20031327
347.00	348.00		V470107	0.0005	Au-ICP21	VO20031327
348.00	349.00		V470108	0.0005	Au-ICP21	VO20031327
349.00	350.00		V470109	0.0005	Au-ICP21	VO20031327
350.00	351.00		V470110	0.0005	Au-ICP21	VO20031327
351.00	352.00		V470111	0.0005	Au-ICP21	VO20031327
352.00	353.00		V470112	0.0005	Au-ICP21	VO20031327
353.00	354.00		V470113	0.0010	Au-ICP21	VO20031327
354.00	355.00		V470114	0.0005	Au-ICP21	VO20031327
355.00	356.00		V470115	0.0005	Au-ICP21	VO20031327
356.00	357.00		V470116	0.0005	Au-ICP21	VO20031327
357.00	358.00		V470117	0.0005	Au-ICP21	VO20031327
358.00	359.00		V470118	0.0005	Au-ICP21	VO20031327
359.00	360.00		V470119	0.0005	Au-ICP21	VO20031327

From	To	Description
360.00	**368.90**	V3B; MA **Basalte; Roche massive** Brittle-ductile deformation zone in Basalt Medium grey, without epidote, pervasively carbonatized (calcite), with numerous white calcite veinlets, fractures. Magnetic. Weak to moderate patchy to pervasive biotite alteration. Fractures, calcite-filled tensions gashes, locally foliation at 30 to 50CA. Mineralized by 1-3% (locally 5-7%) Py in the form of fine to med-size disseminated grains and aggregates. 367.4-368.7 m – four pale grey carbonatite dykes mineralized by fine 3-7% fine Py.368.7-369 m – a strongly sheared, foliated interval mineralized by 5-

From	To	Len	SampleID	Au (ppm)	Method	Certificate
360.00	361.00		V470120	0.0005	Au-ICP21	VO20031327
361.00	362.00		V470122	0.0005	Au-ICP21	VO20031327
362.00	363.00		V470123	0.0005	Au-ICP21	VO20031327
363.00	364.00		V470124	0.0005	Au-ICP21	VO20031327
364.00	365.00		V470125	0.0005	Au-ICP21	VO20031327
365.00	366.00		V470126	0.0005	Au-ICP21	VO20031327
366.00	367.00		V470127	0.0005	Au-ICP21	VO20031327
367.00	367.50		V470128	0.0010	Au-ICP21	VO20031327
367.50	368.00		V470129	0.0005	Au-ICP21	VO20031327
368.00	368.80		V470130	0.0070	Au-ICP21	VO20031327

7% Py.

365.4m-368.9m 20% calcite filled tension gashes, stronger carbonate/biotite/hematite increasing, with 30% dense silica filled fractures at 50-60 deg tca. Mineralization up to 8% mg to fg Py diss'd to blebs.

Carbonatite units at 367.75m-367.9mm at 50 deg tca, 368.2m-368.4m at 45 deg tca, 368.7m-368.8m at 40 deg tca.

367.5m-367.75m felsic volcanic (dacite), abundant plg feldspar, hem/ weak K spar, faint porphyritic, bio grains mineralized up to 15% mg to fg diss'd Py

367.75 367.90 I4Q

Carbonatite 50°

A pale grey carbonatite dyke mineralized by 3-7% fine Py, at 50CA.

368.20 368.40 I4Q

Carbonatite 45°

A pale grey carbonatite dyke mineralized by 3-7% fine Py, at 45CA.

368.70 368.80 I4Q

Carbonatite 40°

A pale grey carbonatite dyke mineralized by 3-7% fine Py, at 40CA.

360.00 368.90 CC; CL; AM; BO; HM; MG

Calcitisation; Chloritisation; Amphibolitisation; Biotitisation; Hématisatio

Pervasively carbonatized (calcite) basalt with numerous white calcite veinlets, fractures. No epidote. Fractures are filled by green Amph/Chl, white Cal. Weak to moderate patchy to pervasive biotite alteration. Magnetic. Weak hematite.

From	To	Description
368.90	**372.20**	S; V1; AP; PO **Sédiments non divisé; Volcanique felsique non divisé; Aphanitique; Porphyri** MINERALIZED ZONE (Notes by M.Sokolov): 368.6-372.0m: Siliceous sediments mixed with mafic material - Exhalite (?) or Felsic volcanics (?)Pale to medium grey rock, mottled, with yellowish to beige sericitic patches. The matrix is dominantly siliceous (XRF SiO2=50-58%), non-carbonaceous, non-magnetic, fine-grained to aphanitic, in parts cherty. Locally, the rock is weakly porphyritic with tiny, anhedral, colorless feldspar grains. In some places, there is green, fine, mafic material with fine leucoxene.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
368.80	369.40		V470131	0.0050	Au-ICP21	VO20031327
369.40	370.40		V470132	0.0060	Au-ICP21	VO20031327
370.40	371.00		V470133	0.0010	Au-ICP21	VO20031327
371.00	371.60		V470134	0.0090	Au-ICP21	VO20031327
371.60	372.20		V470135	0.0090	Au-ICP21	VO20031327

The lower half of the unit contains dark grey to black, cm-wide, contorted bands and mm streaks composed of fine aggregates of silica, black chlorite and minor biotite. Non-magnetic

Structure: weakly to moderately foliated, irregular foliation 35 to 55CA; mod-str irregular fracturing with silica, Chl, Cal, +/-Biot infilling.

Mineralization: abundant pyrite, mainly fracture-controlled, parallel to foliation planes, locally mm-cm nodules, overall 5-10% Py. Py aggregates contain anomalous Cu (480 ppm) and Zn (1000 ppm).

Contacts are not distinct. At 372 m, the rock grades into fine-grained, grey-green basalt or greywacke.

(Notes by E.Stavre):Felsic volcanic (Dacite) faint porphyritic to aphanitic, med granulation, abundant milky to light orange feldspar, some qtz crystals with rare biotite grain Highly deformed with 35-40% carbonate/siilca/chlorite filled fractures. carbonatization intesity is alternating strong to intense, weak hemaitte spots with mod potassium alteration.Mineralization up to 25% mg to vfg diss Py 0.5% Cpy non magnetic.Lower contact at 45 deg tca

368.90 372.20 CB; SR

Carbonatisation; Séricitisation

Carbonate/silica/chlorite-filled fractures. Strong to intense carbonatization, weak hematite spots with potassic alteration.Localized yellow sericitic patches.

368.90 372.20 PY07; CPtr

Pyrite 7%; Chalcopyrite tr

Traces to 10% Py (average 5-7% Py) as aggregates in fractures, parallel to the foliation. Up to 25% mg to vfg diss Py, 0.5% Cpy.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To										
372.20	**375.00**	V3B; S; MA **Basalte; Sédiments non divisé; Roche massive** Basalt? Mafic greywacke ? (resemble basalt compositionally) Part of an exhalative system? Medium grey-green to grey, fine-grained, massive, with very fine disseminated leucoxene, non-magnetic. From 372 to 373.3 m, the rock is non-carbonaceous/non-carbonatized, then the matrix becomes carbonatized. Carbonate reacts to HCl with a mild effervescence. No or minimal epidote. Structure: weak to moderate fracturing with white carbonate/calcite infilling.Mineralization: abundant pyrite as fine to med-grained aggregates, in parts semi-massive. Aggregates/masses are a few mm to 20 cm in size, often accompanied by carbonate, without magnetite. Overall, 5 to 15% Py Lower contact is gradational. Epidote appears in fractures starting from ~374.9 m.(Notes by M.Sokov) Basalt, green grey fine grain, mass, mod foliation increasing approx at 65 deg tca. few shear extensional veinlet at 30 deg tca at 374.1m, 374.6m with carb/chlor/amph.zoning with few mod Hem spots around veining. Mineralization is up to 1% overall with excessive Pyrite amount near volcanic unit contact. 372.3m-372.6m one grey to light grey, felsic volcanic unit (dacite) light grey feldspar, equigranular biotite subhedral granulation, somewhat porphyritic to aphanitic, mod fractured with up to 25% mg cubes to fg Py diss'd mostly. Lower contact is gradational.(Notes by E.Stavre)										
372.20	375.00	CL; AM; CC **Chloritisation; Amphibolitisation; Calcitisation** Chloritized/amphibolized and carbonatized matrix. Absent to minimal epidotization.									
374.10	374.60	CS **Cisaillé(e) 30°** A few shear extensional veinlets at 30 deg tca at 374.1m, 374.6m with carbonate/chlorite/amphibole zoning with a few mod Hem spots around veining.	30								

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
			372.20	372.70		V470137	0.0160	Au-ICP21	VO20031327
			372.70	373.70		V470138	0.0020	Au-ICP21	VO20031327
			373.70	374.50		V470139	0.0005	Au-ICP21	VO20031327
			374.50	375.00		V470140	0.0005	Au-ICP21	VO20031327

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
375.00	**378.00**	V3B; MA; BQ **Basalte; Roche massive; Brèche de coulée** Epidotized V3B with minor epidotized flow breccia sections, medium to dark green-grey matrix, fine-grained, massive. Mineralization: traces to 1-2% Py disseminated and fracture-controlled.	375.00	376.00		V470141	0.0005	Au-ICP21	VO20031327
			376.00	377.00		V470142	0.0005	Au-ICP21	VO20031327
			377.00	378.00		V470143	0.0005	Au-ICP21	VO20031327
375.00	378.00	EP; CL; AM **Épidotisation; Chloritisation; Amphibolitisation** Patchy epidotization, fracture-filling, epidotized flow breccia. The matrix is green, pervasively chloritized/amphibolized.							
378.00	**394.50**	V3B; MA; CO **Basalte; Roche massive; Coussiné** Gabbroic Basalt, epidotized. Medium to dark grey-green with yellowish fracture-filling epidote alteration. Fine to medium-grained with distinct small Plg laths, uniform, massive. Plg grains are saussuritized; the matrix is pervasively chloritized/amphibolized, with weak patchy calcite in matirx and in fractures.Non-magnetic with localized magnetite sps. Weakly fractured at 35CA, 15CA and other orientations. Mineralization: 378-384.2 m - 2-3% Py disseminated cubic grains and fine to med-grained aggregates, locally up to 5-7% Py. 384.2-394.5 m - traces to 1-2% Py.The lower contact is approximate.(Notes by M.Soov) 379.3m-385.8m pillow mafic flow with few decimetre distanced calcite/ep filled selvages wit mg to fg Py blebby to diss'd overprinting. ep/carbonate/chlorite zoning overall with weak hem spot mm size proximal to volcanic contact. One light grey to bleached aphanitic felsic volcanic thin injection strong carbonatized (dolomitic?), biotite grains, Py overprinting. Mineralized up to 15% mg to fg diss'd One strong deformation shear zone at 383.7m-387.8m at 70 deg tca 50% calcite filling shear veining., MNZ up to 3% mg to fg Py. 385.2m-385.4m 385.8m-394.5m mafic flow intercalating with few pillowed sections throughout. High carbonate/chlorite with epidotization overprinting intesity at the contacts(388.9m-389.1m, 391.3m-391.5m, contact	378.00	379.00		V470144	0.0005	Au-ICP21	VO20031327
			379.00	380.00		V470145	0.0005	Au-ICP21	VO20031327
			380.00	381.00		V470146	0.0030	Au-ICP21	VO20031327
			381.00	382.00		V470147	0.0010	Au-ICP21	VO20031327
			382.00	383.00		V470148	0.0030	Au-ICP21	VO20031327
			383.00	384.00		V470149	0.0030	Au-ICP21	VO20031327
			384.00	385.00		V470150	0.0005	Au-ICP21	VO20031327
			385.00	386.00		V470151	0.0010	Au-ICP21	VO20031327
			386.00	387.00		V470153	0.0005	Au-ICP21	VO20031327
			387.00	388.00		V470154	0.0005	Au-ICP21	VO20031327
			388.00	389.00		V470155	0.0005	Au-ICP21	VO20031327
			389.00	390.00		V470156	0.0005	Au-ICP21	VO20031327
			390.00	391.00		V470157	0.0005	Au-ICP21	VO20031327
			391.00	392.00		V470158	0.0030	Au-ICP21	VO20031327
			392.00	393.00		V470159	0.0020	Au-ICP21	VO20031327
			393.00	394.00		V470160	0.0005	Au-ICP21	VO20031327
			394.00	395.00		V470161	0.0020	Au-ICP21	VO20031327

mineralization controll up to 5-6% mg cubes to fg Py blebs.
Lower contact is sheared controlled at 75 deg tca.(Notes by E.Stavre)

378.00 394.50 EP; CB; CL; AM; HM

Épidotisation; Carbonatisation; Chloritisation; Amphibolitisation; Hématis

Weak epidote alteration in fractures, saussuritization of Plg. Weak patchy calcite in the matrix and in fractures. Minor hematite stains. Non-magnetic with localized magnetite spots.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
394.50	**397.30**	V3B; MA	395.00	396.00		V470162	0.0010	Au-ICP21	VO20031327
		Basalte; Roche massive	396.00	397.00		V470163	0.0005	Au-ICP21	VO20031327
		Epidotized Basalt flow							
		Medium to dark green-grey, fine-grained, moderately to strongly fractured with calcite and epidote infilling. Magnetic, locally Lx alteration. This unit has stronger epidote alteration than the previous interval.							
		Mineralized by tr-0.5% Py small disseminated cubic grains and aggregates in fractures.							
		The lower contact is irregular, distinct, at a low core angle (~5CA).							
		400.2m-402m increased fracturing with 10% calcite filled fractures at 50-55 deg tca. 396m-397m incompetent core RQD=0.							

394.50 397.30 EP; CC; CL; AM; MG

Épidotisation; Calcitisation; Chloritisation; Amphibolitisation; Magnétite

Moderate to strong patchy epidote alteration; calcite and epidote in fractures. Locally leucoxene. Green, chloritized/amphibolized matrix. Magnetic.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description
397.30	402.50	I2 **Intrusif intermédiaire 5°** An intermediate dyke, medium purplish grey, locally olive-grey (epidotized?); feldspar-dominant, massive, rather uniform, fine to medium-grained, in parts weakly porphyritic with <1% of small, anhedral, subround phenocrysts (green, white, pink). The matrix is pervasively carbonatized (weak fizzing to HCl test), weakly to moderately magnetic. Weakly fractured with fractures and mm-cm veinlets filled by pinkish white calcite and possibly minor quartz. Veinlets and fractures are variably oriented, commonly ay 35-50CA.XRF shows low REEs (225 ppm Ce), SiO2=33%, K=2%, Al2O3=1% Mineralization: traces Py as small, disseminated, cubic grains.The lower contact is distinct, sharp, at 30CA, slightly bleached/epidotized.
397.30	402.50	HM; CB; EP; MG **Hématisation; Carbonatisation; Épidotisation; Magnétite** Moderate pervasive carbonate (weak fizzing reaction to HCl) and hematite alteration. Weak to moderate magnetism. Weak patchy epidotization (olive-grey bleached patches).

From	To	Len	SampleID	Au (ppm)	Method	Certificate
397.00	398.00		V470164	0.0080	Au-ICP21	VO20031327
398.00	399.00		V470165	0.0005	Au-ICP21	VO20031327
399.00	400.00		V470166	0.0005	Au-ICP21	VO20031327
400.00	401.00		V470167	0.0005	Au-ICP21	VO20031327
401.00	402.00		V470168	0.0005	Au-ICP21	VO20031327
402.00	403.00		V470170	0.0005	Au-ICP21	VO20031327

From	To	Description
402.50	421.00	V3B; MA **Basalte 30°; Roche massive** Basalt, possibly pillowed flow, medium to dark green-grey with patchy epidote alteration, fine-grained with slightly coarser Plg grains and aggregates, magnetic, fractured, wk-mod (calcite, epidote), weak potassic alteration along fractures (biotite, Hem, K-spar). Py is trace to 1-2% disseminated and aggregates.At 417-418 m - brecciated basalt cemented by epite. Lower contact is approximate.402.1m-402.4m strongly altered basalt. 402.6m-412.m alternating massive flow with faint flow breccia small sections, alternating ep intesity semipervasive to patchy, alternating carbonate/ep

From	To	Len	SampleID	Au (ppm)	Method	Certificate
403.00	404.00		V470171	0.0005	Au-ICP21	VO20031327
404.00	405.00		V470172	0.0005	Au-ICP21	VO20031327
405.00	406.00		V470173	0.0005	Au-ICP21	VO20031327
406.00	407.00		V470174	0.0005	Au-ICP21	VO20031327
407.00	408.00		V470175	0.0005	Au-ICP21	VO20031327
408.00	409.00		V470176	0.0005	Au-ICP21	VO20031327
409.00	410.00		V470177	0.0005	Au-ICP21	VO20031327
410.00	411.00		V470178	0.0005	Au-ICP21	VO20031327
411.00	412.00		V470179	0.0005	Au-ICP21	VO20031327
412.00	413.00		V470180	0.0005	Au-ICP21	VO20031327
413.00	414.00		V470181	0.0005	Au-ICP21	VO20031327
414.00	415.00		V470182	0.0005	Au-ICP21	VO20031327
415.00	416.00		V470183	0.0005	Au-ICP21	VO20031327

altered plg laths altered with intense carbonate/bio/chlorite units.

Mineralization up to 2% mg to fg diss'd overall with up to 2% mg to fg Py stringers where intense carbonatization(407.9m-408.7m);412m-419.3m stronger fracture zone with up to 10% mostly calcite filled fractures at 50-55 deg tca 417.4m-418.2m 30% brecciated unit angular to subangular mafic fragments with ep altered matrix.

419.25m-419.3m one calcite/chlorite with weak thin hem band at 30 deg tca up to 1% mg Py.420.6m-420.6m one deformation shear plane at 60 deg tca with ep/chlorite/hem shear folia alternating

From	To	Len	SampleID	Au (ppm)	Method	Certificate
416.00	417.00		V470185	0.0005	Au-ICP21	VO20031327
417.00	418.00		V470186	0.0005	Au-ICP21	VO20031327
418.00	419.00		V470187	0.0010	Au-ICP21	VO20031327
419.00	420.00		V470188	0.0005	Au-ICP21	VO20031327
420.00	421.00		V470189	0.0005	Au-ICP21	VO20031327

402.50 421.00 EP; CL; AM; CC; BO; HM; FK

Épidotisation; Chloritisation; Amphibolitisation; Calcitisation; Biotitisation

Weak to moderate patchy epidotization, calcite and epidote in fractures. Weak potassic alteration along fractures (biotite, Hem, K-spar). The matrix is green, chloritized/amphibolized. Magnetic.

From	To	Description
421.00	**427.60**	V3B; MA

Basalte; Roche massive

Basalt, massive, dark-med grey-green, fine-grained with slightly coarser Plg grains and aggregates (Plg is yellowish, saussuritized/epidotized). Non magnetic with localized Mgt spots. Uniform, massive, weakly fractured.

Mineralized by traces to 1% Py.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
421.00	422.00		V470190	0.0005	Au-ICP21	VO20031327
422.00	423.00		V470191	0.0005	Au-ICP21	VO20031327
423.00	424.00		V470192	0.0005	Au-ICP21	VO20031327
424.00	425.00		V470193	0.0005	Au-ICP21	VO20031327
425.00	426.00		V470194	0.0005	Au-ICP21	VO20031327
426.00	427.00		V470195	0.0005	Au-ICP21	VO20031327
427.00	428.00		V470196	0.0005	Au-ICP21	VO20031327

421.00 427.60 CL; AM; EP

Chloritisation; Amphibolitisation; Épidotisation

Chloritized/amphibolized matrix with saussuritized/epidotized Plg grains. Non-magnetic with occasional magnetic spots.

From	To	Description

From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
427.60	**430.00**	V3B; MA **Basalte; Roche massive** Strongly fractured interval in basalt. Calcite-filled veinlets/fractures at 30-40CA, carbonatized matrix, no epidote or limited.Py is 0.5% to 2% overall.Green to grey, fine, massive with small plagioclase laths. At 427.55-427.7m one deformation shear at 55 deg tca with carbonate/epidote/hematite zoning. Mineralized up to 2% mg cubes to 1% fg Py stringers, at 429.4-429.5 one flat mm size late fault strong carbonate/hematite/chlorite zoning. Mineralized at 3% mg to fg diss'd to fault slips control.429.6m-429.7m 30$ carb/qtz filled fault at 50 deg tca followed by a 2cm brecciated unit,with ep cement. Strong carb/hem/chlorite and epidote overprinting, MIneralized up to 6% mg to fg diss'd to Py stringers or chlorite slips controlled.(Notes by E.Stavre)	428.00	429.00		V470197	0.0010	Au-ICP21	VO20031327
			429.00	430.00		V470198	0.0005	Au-ICP21	VO20031327
427.60	430.00	CC; CL; AM **Calcitisation; Chloritisation; Amphibolitisation** Patchy to pervasively carbonatized basalt, calcite-filled veinlets/fractures, no epidote or limited.							
430.00	**439.20**	V3B; BQ **Basalte; Brèche de coulée** Basalt, mafic flow with flow breccia, possibly pillowed, moderate patchy epidote alteration, magnetic. Overall, mineralized by trace to 0.5-1% Py.At 436.5-437 m - a foliated interval with weak patchy Hem?K/ alteration; foliation at 25-30CA; 2-3% Py.The lower contact s approximate.At 438 m - 1 cm wide, red dykelet - I2 with REEs.At 439 m - 10 cm long, 1-2 cm wide, a pink tension vein composed of pink Anhydrite, Qz and Ksp. 436m-436.5m, 437.6m-438.6m, stronger pervasive carbonate/hematite. 436.3m-436.8m two flat deformation shear zone at 20 deg tca with intense carbonate/hematite/chlorite/K zonin.	430.00	431.00		V470199	0.0005	Au-ICP21	VO20031327
			431.00	432.00		V470201	0.0010	Au-ICP21	VO20031327
			432.00	433.00		V470202	0.0005	Au-ICP21	VO20031327
			433.00	434.00		V470203	0.0005	Au-ICP21	VO20031327
			434.00	435.00		V470204	0.0005	Au-ICP21	VO20031327
			435.00	436.00		V470205	0.0005	Au-ICP21	VO20031327
			436.00	437.00		V470206	0.0180	Au-ICP21	VO20031327
			437.00	438.00		V470207	0.0005	Au-ICP21	VO20031327
			438.00	439.00		V470209	0.0005	Au-ICP21	VO20031327

Lower contact is graditional Plg laths defined.

430.00 436.00 EP

Épidotisation

Moderate patchy epidote alteration, magnetic.

436.00 438.60 CB; HM; CL

Carbonatisation; Hématisation; Chloritisation

Weak to strong patchy to pervasive carbonate and reddish hematite/Kspr? alteration.

438.60 439.60 EP

Épidotisation

Moderate patchy epidote alteration, magnetic.

From	To	Description
439.20	**446.00**	V3B; MA **Basalte; Roche massive** Basalt massive. Dark-med grey-green, same as at 421-427 m interval. Weak to moderate epidote alteration/saussuritization on Plg grains, epidote in fractures. Non-magnetic to weakly magnetic, weakly fractured with calcite and epidote infilling. Mineralized by traces to 0.5% Py. Lower contact is approximate.439.15m-439.27m moderate fracturing at 30-40 deg tca epidote-filled fractures. Ban. 442.2m-442.4m strong deformation at 50 deg tca Py stringers controlled by a steep 2cm carb/qtz extensional veinlet, stronger carbonate/hematite/chlorite with up to 6% mg to fg diss'd Py.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
439.00	440.00		V470210	0.0005	Au-ICP21	VO20031327
440.00	441.00		V470211	0.0005	Au-ICP21	VO20031327
441.00	442.00		V470212	0.0005	Au-ICP21	VO20031327
442.00	443.00		V470213	0.0005	Au-ICP21	VO20031327
443.00	444.00		V470214	0.0005	Au-ICP21	VO20031327
444.00	445.00		V470215	0.0005	Au-ICP21	VO20031327
445.00	446.00		V470216	0.0005	Au-ICP21	VO20031327

439.60 446.00 EP; CC; CL

Épidotisation; Calcitisation; Chloritisation

Weak to moderate epidote alteration/saussuritization on Plg grains, epidote and calcite in fractures. Non-magnetic to weakly magnetic.

From	To	Description
446.00	**453.80**	V3B; V3F **Basalte; Basalte hyper-magnésien** Basalt to Mg-Basalt, mafic flow. Dark green-grey, fine-grained, moderately magnetic, epidote patchy and in fractures. Possibly flow brecca. Strongly fractured at 446-448.5m; locally weakly foliated at 25-30CA. Weak patchy reddish Hem/K? alteration. Mineralized by traces to 1% Py as fine to medium-grained aggregates. Lower contact is approximate. 446.8m-447.1, dk green to dk grey fine highly Mg basalt deformed at approx 40 deg shear foliation with stronger bio/hem/carbonate zoning. Mineralized up to 6% mg to fg Py stringers to blebs.Lc is immediate to Ep altered unit at 20 deg tca. 447.6m-448.2m green to dk green massive sheared basalt at 20 deg tca, with two carbonate filled flat lying extensional veining. Strong carbonate/bio/ and stronger hem patches shear controlled. Mineralized up to 4% mg to fg Py stringers to blebs. 449.7m-451.7m dk green fine grain mass, basalt mod deformed with 50 deg tca foliation stronger bio/hematite patches otherwise strong chlorite pervasive.<2% ep.cal filled fractures. 30-50 deg tca. 453.6m-453.8m dk grey to green fine deformed basalt at 30 deg tca shear foliation.<3% ep/calcite filled fractures at 20-40 deg tca, stronger carbonate with mod hematite and weak K alteration strong chlorite semipervasive to banding.concordant, Marks the lower cnct overall.Mineralized trace to 0.5% mg cubes Mineralized up to 0.5% Py overall with up to 4% mg to Py blebs (449.5m, 449.m). Lower contact is graditional.
446.00	453.80	CB; HM; BO; CL; EP **Carbonatisation; Hématisation; Biotitisation; Chloritisation; Épidotisation** Patchy and fracture-filling epidote; the matrix is

From	To	Len	SampleID	Au (ppm)	Method	Certificate
446.00	447.00		V470217	0.0005	Au-ICP21	VO20031327
447.00	448.00		V470218	0.0005	Au-ICP21	VO20031327
448.00	449.00		V470219	0.0005	Au-ICP21	VO20031327
449.00	450.00		V470220	0.0005	Au-ICP21	VO20031327
450.00	451.00		V470221	0.0005	Au-ICP21	VO20031327
451.00	452.00		V470222	0.0010	Au-ICP21	VO20031327
452.00	453.00		V470223	0.0005	Au-ICP21	VO20031327
453.00	454.00		V470224	0.0005	Au-ICP21	VO20031327

chloritized/amphibolized.Several foliated intervals with stronger biotite/hematite/carbonate patches (446.8-447.1m; 447.6-448.2m; 449.7-451.7m; 453.6-453.8m).

From	To	Description
453.80	**461.70**	V3B; MA **Basalte; Roche massive** Basalt, massive. Dark grey-green rock with weak to moderate epidote alteration on Plg and in fractures, moderately magnetic. The matrix is fine to medium-grained with irregularly-distributed, distinct Plg laths which make the rock look gabbroic. Locally weak reddish, patchy HeméKÉ alteration. Weakly to moderately fractured with epidote and calcite infilling. Late pink veinlets composed of carbonate and anhydrite. Mineralization: trace to 0.5-1% Py disseminated and in fractures.No distinct contacts.459.6m-460.2m, stronger deformation at 30 deg tca, fractured at 20 deg tca truncated by 75 deg tca calcite filled late fractures. Stronger hematite with up to 8% mg to fg Py diss'd to fracture filling, 460.2m-461.4m strong ductile/brittle zone with <10% calcite filled tension gashes, patchy calcite to fracture veinlet controlled, spotty epidote to patchy, moderate Hem patches. Mineralized up to 0.5% mg cubes.
453.80	459.60	EP; CL; AM; CC **Épidotisation; Chloritisation; Amphibolitisation; Calcitisation** Dark grey-green, chloritized/amphibolized matrix with weak to moderate epidote alteration on Plg and in fractures, moderately magnetic. Epidote and calcite filling fractures. Pink veinlets composed of carbonate and gypsum/anhydrite.
459.60	460.20	CB; HM **Carbonatisation; Hématisation** Carbonate and hematite alteration in deformed basalt.
460.20	461.30	CB; HM; EP **Carbonatisation; Hématisation; Épidotisation** Calcite filled tension gashes, patchy calcite fracture/veinlet-controlled, spotty epidote to patchy, moderate Hem patches.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
454.00	455.00		V470226	0.0005	Au-ICP21	VO20031327
455.00	456.00		V470227	0.0005	Au-ICP21	VO20031327
456.00	457.00		V470228	0.0005	Au-ICP21	VO20031327
457.00	458.00		V470229	0.0005	Au-ICP21	VO20031327
458.00	459.00		V470230	0.0005	Au-ICP21	VO20031327
459.00	460.00		V470231	0.0005	Au-ICP21	VO20031327
460.00	461.00		V470232	0.0005	Au-ICP21	VO20031327
461.00	462.00		V470233	0.0005	Au-ICP21	VO20031327

From	To	Description
461.70	469.60	V3B; GM **Basalte; Grains moyens** Gabbroic Basalt, (Gabbro?) Med green-grey, fine to med granulation, euhedral to equigranular Plg feldspar to laths, acicular amphibole, biotite laths, porphyritic? . Ferro-magnesian present. with <5% dark ferro-magnesian/magnetite bands <50 deg tca. Magnetic. <10% Mg basalts units around 461.9m-462.4m, with excessive pervasive biotite/Fe-Carbonate (calcite)/ moderate hematite patches. 468.9m-469.3m, Mg Basalt highly deformed at 50 deg foliation with <10% carbonate veining stronger hematite/carbonate/bio/chlorite. Mineralized up to 8% mg blens to fine grain Py. 470m-470.3m stronger hematite/carbonate/bio/chlorite. Mineralized up to 3% mg cubes to blebs Py. Wk mod semipervasive chlorite/carbonate/biotite/amph. with reddish hematite stains. Minor dk blue serpentine present. Mineralization up to 1% cg diss'd overall with up to 3-5% Py blebs where mafic. Lower contact is gradational Lx defined .(Notes by E.Svre) Additional notes by M.Sokolov:Basalt, massive, gabbroic.Dark to medium grey-green, fine to medium-grained with a spotted appearance. The rock is composed pf pale yellowish grey (saussuritized/epidotized) Plg anhedral grains, laths and aggregates and dark green (chloritized/amphibolized) finer matrix of ferromagnesian minerals. Locally minor disseminated leucoxene. Weak reddish Hem staining on some fractures and veinlets. Non-magnetic with localized Mgt spots and magnetite-rich domains. Structure: the unit is rather uniform, massive, weakly fractured. Variably oriented fractures are filled by Ep, Cal, Chl and anhydrite.Mineralization: traces to 1% Py as small disseminated grains; in Mgt-Chl domains.There are occasional band- or vein-like domains, approximately one or two per 1-3 meters. These domains have distinct margins, vary in width from a few mm to 2-3 cm and have no preferred orientation. Some are straight resembling dykelets, others are irregular-shaped like veins. They are composed of fine-grained aggregates of variable amounts of Chl, Mgt, Py and silica; typically without carbonate. Pyrite often occurs in fractures and on margins. XRF shows the presence of Fe, Mg, Ca, Al, and elevated trace Cu, Zn, and sometimes Cr, W, V and Ni.These domains could be a swarm of small fissure-type vents filled in by hydrothermal fluids.500.1-500.8 m - strong calcite alteration, numerous Cal-filled veinlets; fine Lx.506.4-508.02 m - patchy Cal alteration, weak pinkish

From	To	Len	SampleID	Au (ppm)	Method	Certificate
462.00	463.00		V470234	0.0005	Au-ICP21	VO20031327
463.00	464.00		V470235	0.0005	Au-ICP21	VO20031327
464.00	465.00		V470236	0.0005	Au-ICP21	VO20031327
465.00	466.00		V470237	0.0005	Au-ICP21	VO20031327
466.00	467.00		V470238	0.0005	Au-ICP21	VO20031327
467.00	468.00		V470239	0.0005	Au-ICP21	VO20031327
468.00	469.00		V470241	0.0005	Au-ICP21	VO20031327
469.00	470.00		V470242	0.0005	Au-ICP21	VO20031327

Hem/K alteration, disseminated Lx, no epidote.The lower contact is approximate, not evident; gradational changes in grain size start from ~511 m.

468.90 469.30 V3F; CS

Basalte hyper-magnésien; Cisaillé

Mg Basalt, highly deformed at 50 deg foliation with <10% carbonate veining, strong hematite/carbonate/biotite/chlorite alteration. Mineralized by up to 8% Py fine to med-size grains.

461.70 468.90 CB; CL

Carbonatisation; Chloritisation

chlorite/carbonate/biotite/amphibole alteration

468.90 469.30 BO; HM; CB

Biotitisation; Hématisation; Carbonatisation

stronger hematite/carbonate/biotite/chlorite

468.90 469.30 PY08

Pyrite 8%

up to 8% mg blebs to fine grain Py.

468.90 469.60 CS50

Cisaillé(e)50

Mg-Basalt is highly deformed with foliation at 50 deg and <10% carbonate veining

From	To	Description
469.60	**510.90**	V3B; MA **Basalte; Roche massive** Basalt, green-grey ,gabbroic basalt, med grain, equigranular, Plg feldspar. Ferro-magnesian present. Overall non-Magnetic with rare ,magnetite thin bands.Fe-carbonate/chlorite. 483.4m-483.7m Basalt deformed at approx. 40 deg tca. Ep filled fractures to patchy with acicular actinolite wall rock alteration around veining approx 65-75 deg tca. 1% Carbonate/qtz veinlets at 65 deg tca/. Weak semipervasive Lx alteration. carbonate/chlorite/hematite major alteration zoning with minor amphibole around fractures. Mineralized up to 1% mg Py blebs 486.4m-487.3m deformed basalt at 35-40 deg tca, 65% ep filled fractures 45-55 deg tca to erratic, 20% carb filled fractures to extensional veinlets. carbonate/chlorite with patchy amphibole and weak hem otherwise semipervasive Lx.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
470.00	471.00		V470243	0.0005	Au-ICP21	VO20031327
471.00	472.00		V470244	0.0005	Au-ICP21	VO20031327
472.00	473.00		V470245	0.0005	Au-ICP21	VO20031327
473.00	474.00		V470246	0.0005	Au-ICP21	VO20031327
474.00	475.00		V470247	0.0005	Au-ICP21	VO20031327
475.00	476.00		V470248	0.0005	Au-ICP21	VO20031327
476.00	477.00		V470249	0.0040	Au-ICP21	VO20031327
477.00	478.00		V470250	0.0005	Au-ICP21	VO20031327
478.00	479.00		V470251	0.0005	Au-ICP21	VO20031327
479.00	480.00		V470252	0.0005	Au-ICP21	VO20031327
480.00	481.00		V470253	0.0005	Au-ICP21	VO20031327
481.00	482.00		V470254	0.0010	Au-ICP21	VO20031331
482.00	483.00		V470255	0.0010	Au-ICP21	VO20031331
483.00	484.00		V470257	0.0020	Au-ICP21	VO20031331
484.00	485.00		V470258	0.0020	Au-ICP21	VO20031331
485.00	486.00		V470259	0.0010	Au-ICP21	VO20031331

		Mineralized up to 1% ng Py stringers to blebs. ~ 5% Ep/cal filled fractures 50-65 deg tca 500-501m one weak deformation zone at 50-55 deg tca. Flattening with up to 20 % calcite filled fracturing (40-50 deg tca).Lx altered overprinting.wk to moderate fracturing. Mineralized up to 1% mg Py blebs 506m-507.5m one strong shear deformation zone with 35% calcite filled tension gashes. up to 20% calcite/qtz extensional veining at 20-40 deg tca. Foliated at 40 deg tca. Carbonate/chlorite/moderate bio with spotty amphibole.weak hematite overall. Strong semipervasive Lx.MIneralized up to 1% mg stringers to blebs shear veining contrilled.Mineralization up to 0.5% Py with up to 1% (506m-507.5m) locally shear deformation controlled. Lower cntc is fractured controlled , ep filled hairline fractures 40-60 deg tca .Overall, moderate fenitization, semipervasive chlorite/carbonate/biotite/amph. with reddish hematite stains. Minor dk blue serpentine present. Intergranular sericite flakes. Mineralization up to 1% cg diss'd overall with up to 1% Py blebs where mafic. Lower contact is gradaitional.							
469.30	470.00	CL; CB; BO **Chloritisation; Carbonatisation; Biotitisation** semi-pervasive chlorite/carbonate/biotite/amphibole alteration with reddish hematite stains						
470.00	470.30	HM; CB; BO **Hématisation; Carbonatisation; Biotitisation** stronger hematite/carbonate/biotite/chlorite.						

From	To	Len	SampleID	Au (ppm)	Method	Certificate
486.00	487.00		V470260	0.0010	Au-ICP21	VO20031331
487.00	488.00		V470261	0.0010	Au-ICP21	VO20031331
488.00	489.00		V470262	0.0010	Au-ICP21	VO20031331
489.00	490.00		V470263	0.0010	Au-ICP21	VO20031331
490.00	491.00		V470264	0.0020	Au-ICP21	VO20031331
491.00	492.00		V470265	0.0030	Au-ICP21	VO20031331
492.00	493.00		V470266	0.0020	Au-ICP21	VO20031331
493.00	494.00		V470267	0.0010	Au-ICP21	VO20031331
494.00	495.00		V470268	0.0020	Au-ICP21	VO20031331
495.00	496.00		V470269	0.0040	Au-ICP21	VO20031331
496.00	497.00		V470270	0.0010	Au-ICP21	VO20031331
497.00	498.00		V470271	0.0010	Au-ICP21	VO20031331
498.00	499.00		V470272	0.0010	Au-ICP21	VO20031331
499.00	500.00		V470274	0.0010	Au-ICP21	VO20031331
500.00	501.00		V470275	0.0020	Au-ICP21	VO20031331
501.00	502.00		V470276	0.0010	Au-ICP21	VO20031331
502.00	503.00		V470277	0.0010	Au-ICP21	VO20031331
503.00	504.00		V470278	0.0010	Au-ICP21	VO20031331
504.00	505.00		V470279	0.0010	Au-ICP21	VO20031331
505.00	506.00		V470280	0.0010	Au-ICP21	VO20031331
506.00	507.00		V470281	0.0010	Au-ICP21	VO20031331
507.00	508.00		V470282	0.0020	Au-ICP21	VO20031331
508.00	509.00		V470283	0.0010	Au-ICP21	VO20031331
509.00	510.00		V470284	0.0010	Au-ICP21	VO20031331
510.00	511.00		V470285	0.0010	Au-ICP21	VO20031331

From	To	Description
510.90	**515.50**	V3B; BQ **Basalte; Brèche de coulée** Flow breccia basalt, moderate magnetic, green to grey fine grain massive to flow breccia fine grain to aphanitic, epidote cement, moderate to intense epidotization fract filling to patches, moderate mod calcite, hem patches where breccia flow. <10% ep filled erratic fractures and rare ep/cal filled fractured 65-70 deg tca locally , weakly foliated at 50 deg tca. Mineralized up to 0.5% mg to fg diss to sgear controlled overall. 512-513m ,magnetic, dk green massive with up to 6% mg diss'd to cubes Py. 514.5m-514.9m moderate deformation at 40 deg magnetic, strong carbonate/chlorite with weak hematite. <10% carb extensional veining concordant.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
511.00	512.00		V470286	0.0010	Au-ICP21	VO20031331
512.00	513.00		V470287	0.0070	Au-ICP21	VO20031331
513.00	514.00		V470289	0.0020	Au-ICP21	VO20031331
514.00	515.00		V470290	0.0030	Au-ICP21	VO20031331
515.00	516.00		V470291	0.0020	Au-ICP21	VO20031331

Mineralization up to 5% mg to fg diss'd to Py stringers or fracture controlled.Lower cntc is fractured controlled at 50-70 deg calcite filled fractured.

Additional notes by M.Sokolov:

From 511 to 549.15 m - Basalt, mafic flow with localized flow breccia.Medium grey-green, pervasively chloritized/amphibolized matrix, fine to medium-grained, with saussuritized/epidotized Plg grains and fine-grained aggregates. The upper portion of the unit (511-516 m) is darker than the lower, probably due to the presence of fine Mgt and contains epidotized flow breccia, which gives the rock a mottled appearance. Lower parts are paler greenish grey, non-magnetic, with patchy, weak to moderate epidotization (locally stong).Structure: weak to moderate fracturing with fractures filled by Ep, Cal, Chl.

Younger veinlets, mainly filled by white calcite, crosscut old epidote-filled fractures, sometimes with millimetric offsets. Occasional Qz veinlets and late pinkish calcite+anhydrite veinlets.Mineralization: traces Py; localized fine-grained Py aggregates in fractures.546.3-546.8 m - 1-2 cm wide, pink-grey, Qz-Cal-Anhydrite vein, medium to coarse-grained, crosscutting all older fractures at ~5CA.From ~546 m - weaker epidote alteration and stronger calcit.

No distinct contacts, gradational changes in texture.

510.90	515.50	EP **Épidotisation** Epidotisation
510.90	512.00	PY01 **Pyrite 1%** up to 1% mg diss'd Py
512.00	513.00	PY06 **Pyrite 6%** up to 6% mg dissÆd to cubes Py.
513.00	514.50	PY01 **Pyrite 1%** up to 1% mg Py diss'd
514.50	514.90	PY05 **Pyrite 5%** up to 5% mg to fg diss'd to Py stringers or fracture controlled.

514.90	515.50	PY01	
		Pyrite 1%	
		Up to 1% mg to fg diss'd Py	
514.50	514.90	CS	40
		Cisaillé(e) 40°	
		moderate deformation at 40 deg	

From	To	Description
515.50	**549.60**	V3B; MA; BQ
		Basalte; Roche massive; Brèche de coulée
		Basalt, green, fn grained to aphanitic, moderate to stronger epidotization semipervaseive to patchy , moderate fracturing <10% ep filled hairline fractured 65-70 deg tca overall with late second generation chlorite/carbonate filled fracturing at 40 deg tca , weakly foliated at 50 deg tca.521.8m-5212 one flow breccia with strong epidotization cement, Barn. 525.4 one flat lying fracturing zone at 20 deg tca ep filled fractures terminating at breccia. Barren 525.5-526m flow breccia mm size angular fragments, carbonate cement. 534.16m-534.2m one carbonate filled extensional vein. Barren531.3m-537m increased Ep alteration strong patches to semipervasive , fracture fillg. 534.3m-534.8 one deformed flow breccia unit with with strong epidote cement. ep filled fracturing erratic, non mineralized.40 deg tca few millonite mm size bands.545.7m-546m moderate Mg increase Mineralized up to 1% cg diss;d Py 546.3m-546.5m flat lying qtz/carbonate extensional vein with carbonate/epidot/hematite/k alteration envelope, at 20 deg tca. Mineralization up to 1% mg Py cubes. Lower cntc is graditional Ep alteration defined.
515.50	549.60	EP
		Épidotisation
		Epidotization/chlorite/carbonate
515.50	549.60	PY01
		Pyrite 1%
		Up to 1% mg diss'd Py

From	To	Len	SampleID	Au (ppm)	Method	Certificate
516.00	517.00		V470292	0.0010	Au-ICP21	VO20031331
517.00	518.00		V470293	0.0020	Au-ICP21	VO20031331
518.00	519.00		V470294	0.0030	Au-ICP21	VO20031331
519.00	520.00		V470295	0.0020	Au-ICP21	VO20031331
520.00	521.00		V470296	0.0020	Au-ICP21	VO20031331
521.00	522.00		V470297	0.0040	Au-ICP21	VO20031331
522.00	523.00		V470298	0.0020	Au-ICP21	VO20031331
523.00	524.00		B470298	0.0020	Au-ICP21	VO20031322
524.00	525.00		V470299	0.0010	Au-ICP21	VO20031331
525.00	526.00		V470300	0.0030	Au-ICP21	VO20031331
526.00	527.00		V470301	0.0020	Au-ICP21	VO20031331
527.00	528.00		V470302	0.0030	Au-ICP21	VO20031331
528.00	529.00		V470303	0.0020	Au-ICP21	VO20031331
529.00	530.00		V470305	0.0020	Au-ICP21	VO20031331
530.00	531.00		V470306	0.0020	Au-ICP21	VO20031331
531.00	532.00		V470307	0.0020	Au-ICP21	VO20031331
532.00	533.00		V470308	0.0010	Au-ICP21	VO20031331
533.00	534.00		V470309	0.0020	Au-ICP21	VO20031331
534.00	535.00		V470310	0.0010	Au-ICP21	VO20031331
535.00	536.00		V470311	0.0020	Au-ICP21	VO20031331
536.00	537.00		V470312	0.0020	Au-ICP21	VO20031331
537.00	538.00		V470313	0.0010	Au-ICP21	VO20031331
538.00	539.00		V470314	0.0010	Au-ICP21	VO20031331
539.00	540.00		V470315	0.0020	Au-ICP21	VO20031331
540.00	541.00		V470316	0.0010	Au-ICP21	VO20031331
541.00	542.00		V470317	0.0010	Au-ICP21	VO20031331
542.00	543.00		V470318	0.0010	Au-ICP21	VO20031331
543.00	544.00		V470319	0.0010	Au-ICP21	VO20031331
544.00	545.00		V470320	0.0020	Au-ICP21	VO20031331

545.00	546.00	V470322	0.0030	Au-ICP21	VO20031331
546.00	547.00	V470323	0.0010	Au-ICP21	VO20031331
547.00	548.00	V470324	0.0010	Au-ICP21	VO20031331
548.00	549.00	V470325	0.0010	Au-ICP21	VO20031331
549.00	550.00	V470326	0.0010	Au-ICP21	VO20031331

From	To	Description
549.60	**567.80**	V3B; AP; BQ
		Basalte; Aphanitique; Brèche de coulée
		Basalt, re-worked flow breccia, weakly patchy magnetic (<10% of the unit) green to grey, fn grained, upper unit gabbroic texture ep altered plg feldsp. to aphanitic, foliated at approx. 45 deg tca 30-35% Ep/calcite erratic fracturing with an average of 40-45 deg tca. Mostly strong Epidotiation/amphibole with stong chlorite/carbonate. Hematite is weakly patchy. few small sections with weak to moderate Lx.550.3m-567m,re-worked flow breccia foliated at 30-40 deg tca, stronger biotite patches stronger Ep/amhibole.moderate to stronger shear deformaon. 560m-560.5m one sheear deformation at 25-30 deg tca, with up to 1% mg Py blebs to cubes561.4m-562.3m one shear deformation zone distal at 30 deg tca with strong Ep/Actinil/chlor/carb and strong patchy biotite. Mineralized 0.5% mg Py cubes.Lower contact is stringly deformed at 40 deg tc. Additional notes (by M.Sokolov): From 549.15 to 553.2m - Basalt with a spotted appearance, patchy hematitized and fenitized.The rock is composed of dark green, chloritized/amphibolized spots (could be completely altered Px, Amph), which are surrounded by fine-grained, saussuritized Plg groundmass. Moderate, patchy, reddish fenitization/hematite alteration in the matrix (XRF of red patches: SiO2=35%, K=2.5%). Locally fine leucoxene. Non-magnetic.Structure: moderate irregular fracturing with calcite and epidote infilling.Mineralization: trace Py. From 553.2 to 568.5m - Continuation of massive Basalt, stronger epidotized.Medium green-grey with minor reddish Hem/K patches. The rock is fine to medium-grained, massive, composed of green, chloritized/amphibolized groundmass with small, yellowish grey, saussuritized Plg grains, laths and aggregates. Locally minor leucoxene.The upper portion

From	To	Len	SampleID	Au (ppm)	Method	Certificate
550.00	551.00		V470327	0.0010	Au-ICP21	VO20031331
551.00	552.00		V470328	0.0010	Au-ICP21	VO20031331
552.00	553.00		V470329	0.0010	Au-ICP21	VO20031331
553.00	554.00		V470330	0.0010	Au-ICP21	VO20031331
554.00	555.00		V470331	0.0010	Au-ICP21	VO20031331
555.00	556.00		V470332	0.0010	Au-ICP21	VO20031331
556.00	557.00		V470333	0.0010	Au-ICP21	VO20031331
557.00	558.00		V470334	0.0010	Au-ICP21	VO20031331
558.00	559.00		V470335	0.0010	Au-ICP21	VO20031331
559.00	560.00		V470337	0.0010	Au-ICP21	VO20031331
560.00	561.00		V470338	0.0020	Au-ICP21	VO20031331
561.00	562.00		V470339	0.0010	Au-ICP21	VO20031331
562.00	563.00		V470340	0.0010	Au-ICP21	VO20031331
563.00	564.00		V470341	0.0020	Au-ICP21	VO20031331
564.00	565.00		V470342	0.0010	Au-ICP21	VO20031331
565.00	566.00		V470343	0.0040	Au-ICP21	VO20031331
566.00	567.00		V470344	0.0050	Au-ICP21	VO20031331
567.00	568.00		V470345	0.0080	Au-ICP21	VO20031331

of the unit is non-magnetic and the lower half of it is patchy magnetic.
From 567 m - strongly magnetic.Structure: Occasional dark green-grey, cm-wide, vein-like domains (fissure fillings?) composed of Chl, Mgt, Py. Weak to moderate fracturing with epidote in older fractures. Younger, crosscutting fractures and veins are filled by pinkish Anhydrite (a few mm to 5-6 cm wide).

Mineralization: traces to 0.5-1% Py small, subhedral, disseminated grains.

No distinct contacts.

550.30	567.00	BQ **Brèche de coulée** Re-worked flow breccia, foliated at 30-40 deg tca, stronger biotite patches stronger epidote/amphibole.Moderate to strong shear deformation.	
549.60	567.80	EP; LX; CB **Épidotisation; Leucoxene; Carbonatisation** Mostly strong epidotization/amphibole with strong chlorite/carbonate. Hematite is weak patchy, a few small sections with weak to moderate Lx.	
549.60	560.00	PY00.5 **Pyrite 0.5%** Traces Py.	
560.00	560.50	PY01 **Pyrite 1%** up to 1% mg Py blebs to cubes in a shear zone	
560.50	573.00	PY01 **Pyrite 1%** 1% mg to blebby Py chlorite slips to fracture controlled.	
560.00	560.50	CS **Cisaillé(e) 30°** a shear deformation at 25-30 deg tca	30
561.40	562.30	CS **Cisaillé(e) 30°** a shear deformation zone distal at 30 deg tca with strong Epidote/Actinolite/chlorite/carbonate and strong patchy biotite.	30

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description
567.80	573.00	V3B; AP **Basalte; Aphanitique** Basalt to Mg Basalt, magnetic, dark green to green, fine grained, massive, aphanitic, 4-5% ep/cal filled fractures at approx. 45 to 60 deg tca moderate deformed. >10% carbonate extensional veinlte at approx 50 deg tca(569.3m-569.5m, 572m-572.6m with strong epidote/carbonate envelope. Biotite alteration is patchy alternating.Patchy strong semipervasive Lx alteration through.570.8m-573m increasing Ep semipervasive plg feldsp. alteration. Mineralized around 1% at most mg to blebby Py chlorite slips to fracture controlled. Lower contact is sharp at 45 deg tca. Additional notes (by M.Sokolov): From 568.5 to 570.8m - Continuation of massive Basalt, patchy fenitized, without or very minor epidote alteration.The interval is dark grey, moderately to strongly magnetic due to fine Mgt in the matrix. The matrix is pervasively to patchy chloritized/amphibolized and overprinted by patchy red and brown potassic alteration and hematitization. Disseminated leucoxene. Structure: the interval is sheared with intermittently-developed foliation at ~45CA. Calcite in fracture, tension gashes. Mineralization: traces to 1-2% Py medium-grained aggregates.
567.80	573.00	CB; EP; LX **Carbonatisation; Épidotisation; Leucoxene** Ep/Carb/Biotite alteration is patchy alternating. Disseminated leucoxene.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
568.00	569.00		V470346	0.0160	Au-ICP21	VO20031331
569.00	570.00		V470347	0.0090	Au-ICP21	VO20031331
570.00	571.00		V470348	0.0010	Au-ICP21	VO20031331
571.00	572.00		V470349	0.0010	Au-ICP21	VO20031331
572.00	573.00		V470350	0.0010	Au-ICP21	VO20031331

From	To		
573.00	578.20	V3B; AP	
		Basalte; Aphanitique	
		MINERALIZED ZONE	
		Basalt, (Possibly fine grained intermediate volcanic dacite?	
		576.2m-577.5m (SiO2=43%)) Non magnetic, grey , fine grain, massive , foliated at 30 deg tca and strongly deformed at 30-40 deg tca. <20% calcite/silica filled fractures dense fracturing at approx. 45 deg tca decreasing to 35 deg tca down apex. Carbonate is pervasive stronger to carbonate bleached spots, mod silicification to stronger patchy with very minor hem stains. Mineralized up to 10% mg to fg Py to blebby, overall with up to 5-6% fg Py fracture filling, decreasing down to 2-3% (579.5m). Lower contact os sharp at 20 deg tca.	
		Additional notes (by M.Sokolov):	
		From 570.8 to 575.8m - Basalt, carbonatized, without or very minor epidote alteration, not fenitized.Fine-grained, green, chloritized/amphibolized matrix with weak to moderate patchy, semi-pervasive carbonate/calcite. Mostly non-magnetic, with occasional magnetic spots (fine Mgt aggregates). Moderately fractured with fractures filled by white carbonate, greyish Qz.Mineralization: 3 to 10% Py fine to med-size subhedral to euhedral grains, often with chloritic envelopes, aggregates along fractures, irregular masses.The lower contact is somewhat distinct, at ~50CA, not sharp.	
573.00	578.20	CB; CC; SI; HM	
		Carbonatisation; Calcitisation; Silicification; Hématisation	
		Pervasive to patchy carbonatization, localized bleaching. Moderate patchy silicification, locally stronger. Very minor hematite stains.	
573.00	579.50	PY10	
		Pyrite 10%	
		up to 10% mg to fg Py to blebby, overall with up to 5-6% fg Py fracture filling, decreasing down to 2-3% (579.5m)	
573.00	578.20	CS	40
		Cisaillé(e) 40°	
		foliated at 30 deg tca and strongly deformed at 30-40 deg tca. <20% calcite/silica filled fractures dense fracturing at approx. 45 deg tca decreasing to 35 deg tca down apex.	

From	To	Len	SampleID	Au (ppm)	Method	Certificate
573.00	574.00		V470351	0.0010	Au-ICP21	VO20031331
574.00	575.00		V470353	0.0020	Au-ICP21	VO20031331
575.00	576.00		V470354	0.0030	Au-ICP21	VO20031331
576.00	577.00		V470355	0.0100	Au-ICP21	VO20031331
577.00	578.00		V470356	0.0100	Au-ICP21	VO20031331

578.20	**581.10**	S; LP	578.00	579.00		V470357	0.0060	Au-ICP21	VO20031331
		Sédiments non divisé; Laminations parallèles	579.00	580.00		V470358	0.0020	Au-ICP21	VO20031331
		Sediment wacke, (SiO2=39%) grey, fine grain, laminated, deformed 40 deg tca with <2% interlayered basalt.	580.00	581.00		V470359	0.0080	Au-ICP21	VO20031331
		Mineralized at 2-3% fg Py lamination to Py stringers concordant deformation. Lower contact at 30 deg tca shear controlled.							

Additional notes (by M.Sokolov):

From 575.8 to 578.4m - Volcano-sedimentary rock / Exhalite? / Basalt?The rock is medium to pale grey, in parts dark grey-green, fine-grained, with a heterogeneous appearance. The matrix is variably chloritized/amphibolized, rather mafic. Patchy calcite in the matrix and minor beige, sericitic, fibrous patches. XRF shows variable silica content, ranging from 30 to 60%. The rock is generally non-magnetic but some parts contain fine disseminated Mgt or nodule-like aggregates.Irregular fractures are filled by fine-grained material which is probably composed of grey silica, chorite, anphibole, minor carbonate. Similar assemblages fill small (1-5 mm), subround to elongate "nodules".Structure: moderately fractured, deformed, in places foliate.

Mineralization: abundant pyrite as medium to fine-grained aggregates in fractures, "nodules" with chlorite, semi-massive, irregular-shaped masses, anhedral to subhedral grains. Overall, 5-10% Py.The lower contact is approximate; epidote alteration graduallincreases.

From 578.4 to 581.1m - Volcano-sedimentary rock / Exhalite? / Sediments/greywacke?Medium grey-green to pale grey, fine-grained, foliated at 35-40CA. Minor epidote along foliation planes; minor carbonate in fractures but not in the matrix. Magnetic. XRF shows 43% SiO2Mineralization: 0.5-2% Py very fine to med-size grains, aggregates, typically parallel to the foliation.

579.50	581.10	PY03								
		Pyrite 3%								
		2-3% fg Py lamination to Py stringers concordant deformation								

From	**To**	**Description**	**From**	**To**	**Len**	**SampleID**	**Au (ppm)**	**Method**	**Certificate**

581.10 615.00 V3B; MA

Basalte; Roche massive

Basalt, magnetic, green to grey, fine massive, aphanitic, strongly fractured, with 40-50% erratic hairline ep filled fratures, few re-worked flow breccia(585.8m-585.9m, 591.4m-591.9m, 600.5m-600.8m, 603.2m-604m) mod deformation 20-40 deg tca, <20% carbonate/extensional <1cm thick throughout. Strong carbonate/epidot/moderate actinolite with patchy biotite overall with Fe carbonate/Hem spotty/wk mod K spar? around extensional veining. 595.9m-598.45mm <10% calcite tension gashes, weakly deformed, with decrease Ep, increase oriented Lx/calcite.

Mineralized up to 0.5% g Py cubes. Lower contact is graditional.Additional notes (by M.Sokolov):Basalt, massive, epidotized, strongly fractured.The matrix if fine-grained, green, pervasively chloritized/amphibolized, with fine yellowish, saussuritized/epidotized Plg grains and fine-grained masses. Epidote fills numerous irregular fractures, hairline to mm-cm wide, also present as patches.

Moderately magnetic.

Alteration: Chl/Amph - pervasive in matrix.Ep - mod to str, fractures, patchy, saussuritized Plg.Cal - weak, in fractures and anhydrite (CaSO4) veinlets.Lx - locally, minor.Red K/Hem alteration - localized, patchy, minor, appear more often starting from ~606 m.

Structure: moderate to strong irregular fracturing. Older, epidote-filled fractures are crosscut by late, pink, mm-cm veinlets composed of anhydrite and calcite. Late veinlets are variably oriented, mainly at 40-70CA. They often occur in the central parts of older epidote veinlets.604-615 m - frequent zones (shears? flow bands?), a few mm to 10 cm wide, typically running along the core axis (0-20CA). They are characterized by paler grey or pale pink colour and numerous microfractures which are often oriented perpendicular to the walls of these zones and which give the rock a microbrecciated appearance. The margins are not sharp but quite distinct. Some parts show weak foliation along the margins. Microfractures (micro tension gashes?) are filled by fine aggregates of Chl, Amph, Cal, Hem. Anhydrite veinlets crosscut these zones.Mineralization: mostly traces Py. At 612.2-612.25 m - 5 cm irregular masses of medium-grained Py with chlorite.The lower contact is arbitrary. Epidote alteration decreases downhole while the intensity of red fenitization increases.

585.80 585.90 BQ

Brèche de coulée

few re-worked flow breccia mod deformation 20-40 deg tca, <20% carbonate/extensional <1cm thick throughout.

581.00	582.00	V470360	0.0010	Au-ICP21	VO20031331
582.00	583.00	V470361	0.0010	Au-ICP21	VO20031331
583.00	584.00	V470362	0.0010	Au-ICP21	VO20031331
584.00	585.00	V470363	0.0010	Au-ICP21	VO20031331
585.00	586.00	V470364	0.0010	Au-ICP21	VO20031331
586.00	587.00	V470365	0.0010	Au-ICP21	VO20031331
587.00	588.00	V470366	0.0010	Au-ICP21	VO20031331
588.00	589.00	V470367	0.0010	Au-ICP21	VO20031331
589.00	590.00	V470368	0.0010	Au-ICP21	VO20031331
590.00	591.00	V470370	0.0010	Au-ICP21	VO20031331
591.00	592.00	V470371	0.0010	Au-ICP21	VO20031331
592.00	593.00	V470372	0.0010	Au-ICP21	VO20031331
593.00	594.00	V470373	0.0010	Au-ICP21	VO20031331
594.00	595.00	V470374	0.0010	Au-ICP21	VO20031331
595.00	596.00	V470375	0.0010	Au-ICP21	VO20031331
596.00	597.00	V470376	0.0010	Au-ICP21	VO20031331
597.00	598.00	V470377	0.0010	Au-ICP21	VO20031331
598.00	599.00	V470378	0.0010	Au-ICP21	VO20031331
599.00	600.00	V470379	0.0010	Au-ICP21	VO20031331
600.00	601.00	V470380	0.0080	Au-ICP21	VO20031331
601.00	602.00	V470381	0.0090	Au-ICP21	VO20031331
602.00	603.00	V470382	0.0010	Au-ICP21	VO20031331
603.00	604.00	V470383	0.0010	Au-ICP21	VO20031331
604.00	605.00	V470385	0.0010	Au-ICP21	VO20031331
605.00	606.00	V470386	0.0010	Au-ICP21	VO20031331
606.00	607.00	V470387	0.0010	Au-ICP21	VO20031331
607.00	608.00	V470388	0.0010	Au-ICP21	VO20031331
608.00	609.00	V470389	0.0010	Au-ICP21	VO20031331
609.00	610.00	V470390	0.0030	Au-ICP21	VO20031331
610.00	611.00	V470391	0.0060	Au-ICP21	VO20031331
611.00	612.00	V470392	0.0010	Au-ICP21	VO20031331
612.00	613.00	V470393	0.0200	Au-ICP21	VO20031331
613.00	614.00	V470394	0.0020	Au-ICP21	VO20031331
614.00	615.00	V470395	0.0030	Au-ICP21	VO20031331

585.90 586.00 BQ

Brèche de coulée

re-worked flow breccia mod deformation 20-40 deg tca

586.00 586.10 BQ

Brèche de coulée

re-worked flow breccia mod deformation 20-40 deg tca

586.10 586.20 BQ

Brèche de coulée

re-worked flow breccia mod deformation 20-40 deg tca

586.20 586.30 BQ

Brèche de coulée

re-worked flow breccia mod deformation 20-40 deg tca

581.00 615.00 CB; EP; BO; HM

Carbonatisation; Épidotisation; Biotitisation; Hématisation

Strong carbonate/epidote/moderate actinolite with patchy biotite and Fe-carbonate, weak to moderate spotty hematite/K spar(?)

581.10 615.00 PY00.5

Pyrite 0.5%

up to 0.5% Py cubes.

From	To	Description
615.00	**621.20**	V3B; V3F; MA **Basalte; Basalte hyper-magnésien; Roche massive** Basalt to Mg Basalt dk green, fine, mass, aphanitic, unit is strong lx/chlorite/bio/calcite changing to strong bio/carbonate/amphibole assemblage. 618.4m-621.2 increase of chlorite/biotite smipervasive. Also increase of calcite filled extensional veinlets. One carbonate vein at 620.8m-620.9m at 40 deg tca, with strong hematite envelope. Barren.One shear deformation starting at 621m till end of the interval with one 10cm greywacke unit at 621.3m-621.4. This interval has moderate fracture density with calcite filled fracturere at 25-30 deg tca. Otherwise strong semipervasive Lx alteration. Mineralization is up to 0.5% overall, with up to 1% mg to fg bleby Py shear foliation controlled. (621.7m-624m) Lowr contact is sharp at 55 deg tca

From	To	Len	SampleID	Au (ppm)	Method	Certificate
615.00	616.00		V470396	0.0010	Au-ICP21	VO20031331
616.00	617.00		V470397	0.0010	Au-ICP21	VO20031331
617.00	618.00		V470398	0.0020	Au-ICP21	VO20031331
618.00	619.00		V470399	0.0010	Au-ICP21	VO20031331
619.00	620.00		V470401	0.0010	Au-ICP21	VO20031331
620.00	621.00		V470402	0.0010	Au-ICP21	VO20031331

Additional notes (by M.Sokolov):

From 615.0 to 619m - Basalt, massive, gabbroic, fenitized.The rock is composed of fine-grained, green, chloritized/amphibolized matrix with irregular, fine-grained masses of red Feldspar. Red colour is apparently due to replacement of the original Plg groundmass by K-feldspar and hematite (fenitized). Bi-colored rock (green and red) has a spotted, somewhat coarse-grained appearance but in fact, the grains are fine, almost indistinct. Disseminated leucoxene grains make the rock look microporphyritic. Moderate, patchy calcite alteration in the matrix and fracture-filling.

Magnetism: mostly non-magnetic with occasional magnetic spots.Structure: weak fracturing with calcite infilling.Mineralization: traces of small, diss Py.

From ~619 m - increasing intensity of fenitization and deformation.

615.00	618.40	LX; CC; BO	
		Leucoxene; Calcitisation; Biotitisation	
		Disseminated leucoxene, patchy biotite-calcite alteration.	
618.40	621.80	BO; LX	
		Biotitisation; Leucoxene	
		Increase in semi-pervasive chlorite/biotite. Also, increase in the number of calcite-filled extensional veinlets.	
615.00	621.20	PY00.5	
		Pyrite 0.5%	
		up to 0.5% Py overall, with up to 1% mg to fg bleby Py shear foliation controlled	
621.00	621.20	CS	20
		Cisaillé(e) 20°	
		One shear deformation starting at 621m till end of the interval	

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
621.20	**624.40**	V3F; CS	621.00	622.00		V470403	0.0020	Au-ICP21	VO20031331
		Basalte hyper-magnésien; Cisaillé	622.00	623.00		V470404	0.0010	Au-ICP21	VO20031331
		Mg Basalt deformed at 25-30 deg tca, strong bio/carbonate/amphibole assemblage , One shear deformation starting at 621m till end of the interval. This interval has mod fracture density with calcite filled fracturere at 25-30 deg tca. strong calcite/hematite/chlorite patches alternating bio/chlorite/hem patches. Otherwise strong semipervasive Lx alteration.	623.00	624.00		V470405	0.0030	Au-ICP21	VO20031355
		Mineralization is up to 0.5% overall, with up to 1% mg to fg bleby Py shear							

foliation controlled. (621.7m-624m) Lowr contact is sharp at 35 deg tca.

Additional notes (by M.Sokolov):

From 619 to 624.5m - Continuation of Basalt, possibly Mg-Basalt (stronger biotite alteration); strongly fenitized.The rock is mottled green, dark grey, red to dark mauve with chloritized/amphibolized, fine-grained matrix and red K-spr/Hem alteration (fenitization) on fine-grained masses of Plg. Weak patchy and fracture-filling biotite, increasing downhole. Moderate to strong patchy and fracture-filling calcite. Disseminated leucoxene throughout the unit.

At 622.5-623 m - a dark bluish to greenish grey, fine-grained interval with fine disseminated leucoxene. XRF shows 8-9% of Mg - Mg-rich basalt. Structure: sheared with weakly to moderately-developed foliation at 20-35CA. Stronger deformation in the lower parts with biotite fabrics defining the foliation

620.7-620.9 m - 15-20% pink-white Ca-carbonatite veinlets, 0.5-2 cm wide, fine to med-grained, mostly barren inside except one Cpy-filled microfracture. Cpy+Py aggregates occur in the strongly magnetic host rock around veinlets.

621.7 m - a 2.5 cm wide, grey-white Ca-carbonatite vein at 20-25CA, oriented parallel to the foliation. Barren.

622.7-623.3 m - numerous reddish anhydrite veinlets with some calcite, mm-cm wide, oriented roughly parallel to the foliation.Mineralization:619-620.7 m - trace Py.620.7-620.8 m - Cpy+Py aggregates around carbon veins.

620.8-622.3 m - trace to 2% Py fine to med cubic, diss grains, pods, fractures with med-grained aggregates.

622.3-624.5 m - traces diss Py.Lower contact is somewhat distinct, sheared at 30-35CA. Leucoxene dissappears, silica goes a bit up.

621.30 621.40 S; LP

Sédiments non divisé; Laminations parallèles

a 10cm greywacke interval

621.80 624.40 BO; LX; CC; HM

Biotitisation; Leucoxene; Calcitisation; Hématisation

Strong biotite/carbonate/amphibole assemblages, strong calcite/hematite/chlorite patches alternating with biotite/chlorite/hematite patches.

621.20 624.40 PY00.5

Pyrite 0.5%

up to 0.5% Py overall

From	To	Description
624.40	626.55	V3B; S; GF **Basalte; Sédiments non divisé; Grains fins** Mineralization Zone:Three major lithologie 624.4m-626.55m dk gren fine grain, massive to aphanitic patchy magnetic, highly deformed with shear foliation at 30 deg tca.10% calcite tension gashes oriented to shear with <5% myllonite mm size bands concordant, Strong Fe carbonate/hematite/with chlorite patchesone post epidotized. Lower contact at 30 deg tca.Overall :Mineralized up to 15-20% mg to fg diss'd to interganular to Py stringers. Lower contact is a 10cm strong sheared intercalated sediment/basalt mineralized at 10% fg Py stringers fol controlled sharp at 30 deg tca Additional notes (by M.Sokolov): From 624.5 to 626.5m - Strongly fenitized and deformed Sediments or possibly Basalt.The rock is dark brownish grey, biotite-altered, fine-grained with some distinct grains (greywacke?), hard to scratch, non-magnetic to spotty magnetic. Alteration:Cal/Carb - mainly in the upper portion (near the CNT), patchy in the matrix and in fractures, then very minor in fractures and Qz veins.Hem - weak pinkish hematite staining on veins, foliation bands.Biotite - minor in fractures and possibly in the matrix, fine specks.Bleached beige (Ser?) halos around late Qz-dominant veinlets.625.25-625.35 m - a 5-6 cm wide, red, aphanitic injection - possibly a felsite dykelet (?), SiO2=45%, K<1%Structure: a strongly deformed, sheared interval with foliation developed at 30CA.625.35-626.5 m - 4% Qz-dominant veinlets with minor Carb/Cal, mm-cm wide, often folded, crosscutting foliation; have beige-pink bleached halos.Mineralization: 624.6-626.5 m - 5-10% Py fine, locally medium-grained, disseminated, forming chains of fine grains along the foliation. The lower contact seems gradational over 5-7 cm, with distinct changes in colour/alteration - brownish red to pale beige-grey. The deformed fabrics look continuous regardless of changes in colour.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
624.00	625.00		V470406	0.0290	Au-ICP21	VO20031355
625.00	626.00		V470407	0.0510	Au-ICP21	VO20031355
626.00	626.50		V470409	0.0210	Au-ICP21	VO20031355

624.40	628.36	PY20 **Pyrite 20%** up to 15-20% mg to fg dissÆd to intergranular to Py stringers. Lower

contact is a 10cm strong sheared intercalated sediment/basalt mineralized at 10% fg Py stringers foliation controlled sharp at 30 deg tc

624.40	626.50	CS	30

Cisaillé(e) 30°

highly deformed with shear foliation at 30 deg tca.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
626.55	**627.02**	S; GF	626.50	627.10		V470410	0.0730	Au-ICP21	VO20031355

Sédiments non divisé; Grains fins

Three major lithologies:2. 625.15m-627.02m one alkali syenite intrusive, orange, med granulation, equigranular, porph'c, fractured, strong K/spar patches/Hem/carbonate. Lower contact is strongly sheared melange of intercalted basalt/syente/sediment(chert?) at 30 deg tca mineralized at 9-10% fg Py stringers shear controlled.

Overall :Mineralized up to 15-20% mg to fg diss'd to interganular to Py stringers. Lower contact is a 10cm strong sheared intercalated sediment/basalt mineralized at 10% fg Py stringers fol controlled sharp at 30 deg tc

Additional notes (by M.Sokolov):

From 626.5 to 628.4m - Sedimentary rocks, mudstone to greywacke.Pale to medium grey, beige-grey, locally yellowish (sericitic), fine-grained to aphanitic, massive and locally finely laminated. The matrix is siliceous (XRF: 45-50% SiO2), non-carbonaceous, mostly non-magnetic except some places with fine disseminated Mgt. Minor carbonate is present in fractures along with chlorite/amphibole and silica. Structure: weakly to moderately fractured, in some parts foliated/laminated at 25-35CA.Mineralization: the upper portion has higher amounts of Py - 5-10% as fine disseminated grains, fine to medium-grained aggregates in fractures and parallel to the foliation. The lower parts contain 1-3% Py.

The lower contact is distinct, straight, at 30CA.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
627.02	628.36	S; S10; LP **Sédiments non divisé; Chert; Laminations parallèles** 3. 627.02m-628.36m Sediment (wackey to cherty down apex), dark grey to light grey, fine grain, laminated, concoidal break, with distinctive shear foliation at lower contactat 30 deg tca.Overall Mineralized up to 15-20% mg to fg diss'd to interganular to Py stringers. Lower contact is a 10cm strong sheared intercalated sediment/basalt mineralized at 10% fg Py stringers fol controlled sharp at 30 deg tc	627.10	628.00		V470411	0.0280	Au-ICP21	VO20031355

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
628.36	632.76	V3B; V3F; MA **Basalte; Basalte hyper-magnésien; Roche massive** Basalt, green to grey with alternating massive basalt and gabbroic basalt (qtz crystal equigranular), weakly fractured with up to 20 % calcite/qtz extensional veinlet (mineralized up to 10% fg blebby Py to stringers). Increase biotite to Mg basalt from 630m down apex. Overall carbonate/biotite/chlorite/Hem assemblages .632.2m-632.7m, 633.4m-633.2m green, fine, massive, altered strong carb/hematite/chlorite/bio basalt, foliated at 40 deg tca, mineralized at 10% cg to mg diss'd Py cubes to fg vfg diss'd Py overprinting.Swarm mafic dykes through the interval:630m-633.2m, 635.2m-639.2m dk green fine grain, mass, undeformed mafic dyke(wacky?) (MgO~8.26%), barren. Additional notes (by M.Sokolov): From 628.4 to 632m - Basalt to Mg-Basalt, massive.Medium grey-green, fine-grained, uniform, pervasively chloritized/amphibolized, with moderate pervasive calcite in the matrix and fracture-filling, weak spotty reddish Hem/K-alteration, locally minor leucoxene. Moderately magnetic due to fine, disseminated Mgt throughout the unit.Structure: weakly fractured, contains randomly-oriented mm-cm veinlets composed of anhydrite, calcite. Mineralization: traces to 0.5-1% Py fine to med-size, disseminated, cubic grains and medium-grained aggregates in some veinlets and fractures. No lower contact, gradational changes in alteration.	628.00	629.00		V470412	0.0070	Au-ICP21	VO20031355
			629.00	630.00		V470413	0.0020	Au-ICP21	VO20031355
			630.00	631.00		V470414	0.0030	Au-ICP21	VO20031355
			631.00	632.00		V470415	0.0050	Au-ICP21	VO20031355
			632.00	633.00		V470416	0.0230	Au-ICP21	VO20031355

628.36 632.76 BO; CB; HM

Biotitisation; Carbonatisation; Hématisation

Stronger biotite alteration in Mg-basalt from 630m down apex. Overall, carbonate/biotite/chlorite/hematite alteration assemblages.

628.36 632.20 PY00.5

Pyrite 0.5%

Traces Py.

632.20 632.70 PY10

Pyrite 10%

10% cg to mg diss'd Py cubes to fg vfg diss'd Py overprinting.

632.20 632.30 CS 30

Cisaillé(e) 30°

One 10cm strong shear deformation at 633.2m at 30 deg tca, with 10% carbonate veining

From	To	Description
632.76	**638.04**	V3B **Basalte** Basalt, mafic dyke swarm?, patchy magnetic, green,mass, aphanitic, fractured with up to 5% calcite/qtz extensional veinlet at approx 30-40 deg tca. One 10cm strong shear deformation at 633.2m at 30 deg tca, with 10% carbonate veining. Mineralized at 10% mg to fg Py stringers. Increase biotite to Mg basalt from 630m down apex. Overall carbonate/biotite/chlorite/Hem assemblages .Mineralized up to 6-7% mg to fg diss'd Py overall with up to 15% Py locally vein controlled (632.2m-633.4m, 632.7m-633.2m, 636m-636.4m,Lower contact is graditional.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
633.00	634.00		V470417	0.0690	Au-ICP21	VO20031355
634.00	635.00		V470418	0.0450	Au-ICP21	VO20031355
635.00	636.00		V470419	0.0330	Au-ICP21	VO20031355
636.00	637.00		V470420	0.0830	Au-ICP21	VO20031355
637.00	638.00		V470421	0.0330	Au-ICP21	VO20031355

632.76 638.04 BO; CB

Biotitisation; Carbonatisation

carbonate/biotite

633.20 633.40 PY10

Pyrite 10%

10% mg to fg diss;d Py

633.40 638.04 PY07

Pyrite 7%

up to 6-7% mg to fg dissÆd Py overall with up to 15% Py locally vein controlled

From	To	Description
638.04	643.20	V3B; V3F; MA **Basalte; Basalte hyper-magnésien; Roche massive** Basalt to Mg Basalt dk green to grey, fn grained, mass, Weakly deformed. Up to 5% mm size caclye/qtz filled extensional veining at 30-35 deg tca, 641.25m one 3cm extensional shear qtz/carb vein with strong 40cm halo carb/sil'd/chlo/hem envelope.(641m-641.4m). Mineralized at 5% fg diss'd to Py stringers.Overall moderate to strong fenitization potassuim/hematite minerals, alternating, carbonate/biotite weak chlorite. Mineralized up to 1% fg diss'd overall with up to 5% in and around vein in the contact.(639.2m-639.3m) Lower contact is graditional. Additional notes (by M.Sokolov): From 632 to 643.2m - Fenitized Basalt to Mg-Basalt.Mottled dark grey, green, brown, reddish in the upper portion of the unit. From ~638.5 m, the colour gradually changes to dark greenish grey to medium green-grey. The reddish brown colour is attributed to moderate to strong, semi-pervasive to pervasive potassic alteration (fenitization), dominated by biotite and K-feldspar plus patchy hematite and calcite alteration. Magnetism: moderately magnetic over the upper 1-2 meters, then the intensity decreases to weak, then the rock is non-magnetic till 639.6 m and it becomes magnetic again.Structure: moderately deformed, fractured, weakly to moderately sheared with foliation developed at 40CA. Foliation is defined by biotite fabrics, slightly stretched K-spr and by parallel white calcite veinlets. 2-3% irregular, fragmented, mm-cm wide veinlets composed of colorless Qz and white carbonate (dolomite?). Mineralization: higher Py amounts than in the previous unit, ranging from 1 to 5% Py in the form of small grains in calcite-rich patches, in fractures, veinlets and disseminated in the matrix.The lower contact is distinct, sheared at 40CA, crosscut by a Qz-Carb mm veinlet.
641.25	643.20	HM; FK; CB **Hématisation; Altération en feldspath potassique; Carbonatisation** Overall moderate to strong fenitization potassuim/hematite minerals, alternating, carbonate/biotite weak chlorite.
638.04	639.20	PY00.5 **Pyrite 0.5%**

From	To	Len	SampleID	Au (ppm)	Method	Certificate
638.00	639.00		V470422	0.0060	Au-ICP21	VO20031355
639.00	640.00		V470423	0.0080	Au-ICP21	VO20031355
640.00	641.00		V470424	0.0270	Au-ICP21	VO20031355
641.00	642.00		V470426	**0.1950**	Au-ICP21	VO20031355
642.00	643.00		V470427	0.0040	Au-ICP21	VO20031355

Pyrite 0.5%

Traces Py.

639.20 639.30 PY05

Pyrite 5%

5% fg diss'd to Py stringers.

639.30 641.00 PY00.5

Pyrite 0.5%

Traces Py.

641.00 641.40 PY05

Pyrite 5%

5% fg diss'd to Py stringers.

641.40 643.20 PY00.5

Pyrite 0.5%

Traces Py.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
643.20	**644.80**	V1; AP	643.00	644.00		V470428	**0.1120**	Au-ICP21	VO20031355
		Volcanique felsique non divisé; Aphanitique	644.00	644.80		V470429	**0.2480**	Au-ICP21	VO20031355
		Felsic Volcanic V1, orange to bleached orange, fine grain , moderate K altered. Felspar, <1% faint qtz , moderate sil/Py filled fractures. Mineralized up to 2% fg to vfg Py diss'd to Py stringers fract filling. Lower cntc is sharp at 55 deg tca.							
		Additional notes (by M.Sokolov):							
		From 643.2 to 644.45m - Felsic extrusive rock, felsite?Pale pink, pinkish grey, very fine-grained to aphanitic, massive, very siliceous (XRF: SiO2=55%, K=4%), non-carbonaceous, in parts magnetic due to fine disseminated Mgt. Moderately fractured with silica infilling.							
		Mineralization: 1-2% Py.							
		There is no obvious lower contact. This and the following unit could be two phases of the same siliceous rock.							
	643.20 644.80	FK; CB							
		Altération en feldspath potassique; Carbonatisation							
		Moderate fenitization (K/Hem), carbonatisation							
	643.20 644.80	PY02							
		Pyrite 2%							
		up to 2% fg to vfg Py diss'd to Py stringers, fracture filling							

From	To	Description
644.80	**648.25**	V1; I2D; AP; PO **Volcanique felsique non divisé; Syénite; Aphanitique; Porphyrique** Mineralized ZoneAlkali syenit. Orange med granulation, faint porphyritic, mod fracturing, with 5% carbonate/silica filled fractures at 50-65 deg tca. 10-12% mm size carbonate extensional veining at high angle tca.Carbonate with weak Hem/K spar spots. Mineralized up to 4-5% mg to vfg diss'd Py overall with up to 10% fg to vfg Py diss'd to fracture filling Py with specularite. Lower contact at 40 deg tca.SiO2=46%, Al2O3=12.66%, K=6.88% Additional notes (by M.Sokolov): - High-potassium dacite / trachydacite? syenitic dyke?From 644.45 to 648.15m - This interval is somewhat different from the unit above. It is composed of a very siliceous rock, medium red with dark and pale grey patches. The matrix is microcrystalline, locally porphyritic with small whitish Carb phenocrysts and specks. The matrix is hard, rich in silica and potassium (XRF: SiO2=40-53%, K=5-8%, relatively elevated Ba 1400 ppm, no REEs). Mostly non-magnetic except some veinlets which contain fine Mgt. Structure: strongly fractured and crosscut by variably oriented, mm-cm veinlets composed of colorless Qz, white Carb, Alb. Veinlets crosscut pyritized fractures which are often oriented at low core angles (5-25CA). Overall, ~5% veinlets. Mineralization: 5 to 15% Py fine to med disseminated grains, fine to medium-grained stringers and irregular masses The lower contact is distinct, sheared at 30CA.
644.80	648.25	CB; HM; FK **Carbonatisation; Hématisation; Altération en feldspath potassique** Carbonate with Hem/K spar spots.
644.80	648.25	PY07; HS05 **Pyrite 7%; Spécularite 5%** up to 4-5% mg to vfg dissÆd Py overall with up to 10% fg to vfg Py dissÆd to fracture filling Py with specularite

From	To	Len	SampleID	Au (ppm)	Method	Certificate
644.80	645.80		V470430	**0.3600**	Au-ICP21	VO20031355
645.80	646.80		V470431	**0.2610**	Au-ICP21	VO20031355
646.80	647.80		V470432	**0.2800**	Au-ICP21	VO20031355
647.80	648.30		V470433	**0.2890**	Au-ICP21	VO20031355

From	To	Description
648.25	692.95	V3B; V3F; MA **Basalte; Basalte hyper-magnésien; Roche massive** Basalt to Mg Basalt, magnetic, dk green to dk grey, fine grained, massive, magnetic, weakly foliated at 55 deg tca, with 10% carbonate filled few cm size extensional veining to veinlet at 50-60 deg tca. Up to 10% flat to 10 deg tca hairline fault controlling mineralization through the unit. 655m-655.8m 70% flow breccia with fine carbonate cement. Mineralized up to 1% mg Py diss'd. Overall 683.4m-692.5m intense fenitization. Carbonate (calcitic)/chlorite/serpentine with moderate Hem/rare K stonger patches around veining. 690.8m-692m stringer biotite semipervasive turning into hypermagnesian basalt. 648.25m-670m Mineralization is up to 4% mg dis'd to Py cubes overall with up to 8% Py stringer to cubes extensional veining controlled locally,(655m-655.2m 20 deg tca shear foliation at 20 deg tca, 657m-657.15m carb/chl alternating extensional veinlet at 30 deg tca, 660.8m-661.8m, 662.9m-663.1m 6cm carb/chl extensional veining at 30 deg tca, 664m-664.3m flat lying carbonate/chlorite/hematite shear, 665m-665.4m flat lying carbonate/chlorite/hematite shear, 666m-667m shear deformation/foliation at 25 deg tca strong carb/chl/hematite, 667m-668m, 671.3m-671.5m mm size alkali syenite injection with 30cm halo carbonate/hematite/chlorite, mineralized at 10% mg to fg diss'd.683.4m-692.5m intense fenitizationLower contact is approx. 35 deg tca Additional notes (by M.Sokolov): From 648.15 to 692.3m - Basalt to Mg-Basalt, massive, patchy fenitized.Dark to medium green-grey with reddish patchy alteration. The rock is fine to medium-grained, rather uniform, massive, moderately hard. The matrix is pervasively to patchy chloritized/amphibolized, possibly weakly serpentinized, and moderately carbonatized. Calcite also occurs in fractures and veinlets. Locally fine disseminated leucoxene. Weak to moderate, semi-pervasive, spotty potassic alteration with secondary K-feldspar/Hem and biotite. Magnetism: weak to moderate, in parts strong due to the presence of Mgt in fractures, veins, in the matrix. Structure: moderate fracturing and Carb veining. White Carb/Cal veinlets are

From	To	Len	SampleID	Au (ppm)	Method	Certificate
648.30	649.00		V470434	0.0140	Au-ICP21	VO20031355
649.00	650.00		V470435	0.0100	Au-ICP21	VO20031355
650.00	651.00		V470436	0.0060	Au-ICP21	VO20031355
651.00	652.00		V470437	0.0190	Au-ICP21	VO20031355
652.00	653.00		V470438	0.0060	Au-ICP21	VO20031355
653.00	654.00		V470439	0.0080	Au-ICP21	VO20031355
654.00	655.00		V470441	0.0010	Au-ICP21	VO20031355
655.00	656.00		V470442	0.0900	Au-ICP21	VO20031355
656.00	657.00		V470443	**0.2170**	Au-ICP21	VO20031355
657.00	658.00		V470444	0.0050	Au-ICP21	VO20031355
658.00	659.00		V470445	0.0350	Au-ICP21	VO20031355
659.00	660.00		V470446	0.0040	Au-ICP21	VO20031355
660.00	661.00		V470447	0.0370	Au-ICP21	VO20031355
661.00	662.00		V470448	**1.2950**	Au-ICP21	VO20031355
662.00	663.00		V470449	**0.2430**	Au-ICP21	VO20031355
663.00	664.00		V470450	0.0220	Au-ICP21	VO20031355
664.00	665.00		V470451	0.0350	Au-ICP21	VO20031355
665.00	666.00		V470452	**0.8370**	Au-ICP21	VO20031355
666.00	667.00		V470453	0.0980	Au-ICP21	VO20031355
667.00	668.00		V470454	0.0130	Au-ICP21	VO20031355
668.00	669.00		V470455	0.0020	Au-ICP21	VO20031355
669.00	670.00		V470457	0.0070	Au-ICP21	VO20031355
670.00	671.00		V470458	0.0070	Au-ICP21	VO20031355
671.00	672.00		V470459	0.0240	Au-ICP21	VO20031355
672.00	673.00		V470460	0.0030	Au-ICP21	VO20031355
673.00	674.00		V470461	0.0010	Au-ICP21	VO20031355
674.00	675.00		V470462	0.0030	Au-ICP21	VO20031355
675.00	676.00		V470463	0.0020	Au-ICP21	VO20031355
676.00	677.00		V470464	0.0020	Au-ICP21	VO20031355
677.00	678.00		V470465	0.0010	Au-ICP21	VO20031355
678.00	679.00		V470466	0.0010	Au-ICP21	VO20031355
679.00	680.00		V470467	0.0010	Au-ICP21	VO20031355
680.00	681.00		V470468	0.0010	Au-ICP21	VO20031355
681.00	682.00		V470469	0.0010	Au-ICP21	VO20031355

mm-cm wide, generally oriented at 40-65CA. Some veinlets are at 0-20CA. Green actinolite needles were observed in some veins.

At 655-656 m - brecciated host rock cemented by carbonate veinlets (hydrothermal breccia).Mineralization: the upper 20-25 cm interval is strongly sheared, strongly fenitized and mineralized by 5-7% Py as small cubic grains and chains of grains parallel to the foliation. From 648.5 m - traces to 0.5-1% Py small, disseminated grains, in some fractures and veinlets, 1-3% Py in some veins.At 661-667 m - patchy fenitized (Kspr, Biot) and carbonatized Mg-basalt, moderately to strongly deformed (sheared at low-angles, 15-30CA, fractured, in parts brecciated).

Mineralized by traces to 5% Py fine to med-size disseminated cubic grains.At 690.8-692.3 m - strong, semi-pervasive fenitization (K-spar), magnetic. The interval has a ghostly ophitic texture.There is no obvious lower contact, seems gradational. The end of the unit is marked at the end of the strongly fenitized zone.

655.00 655.80 BQ

Brèche de coulée

70% flow breccia with fine carbonate cement. Mineralized by up to 1% Py medium-size disseminated grains.

667.00 668.00 I2D; PO

Syénite; Porphyrique

mm size alkali syenite injection with 30cm halo carbonate/hematite/chlorite, mineralized at 10% mg to fg diss'd.

671.00 671.50 I2D; PO

Syénite; Porphyrique

mm size alkali syenite injection with 30cm halo carbonate/hematite/chlorite, mineralized at 10% mg to fg diss'd.

683.40 690.80 CC; HM; FK

Calcitisation; Hématisation; Altération en feldspath potassique

Intense fenitization, patchy carbonate (calcite), chlorite with moderate to strong hematite patches around veining.

690.80 692.00 BO

Biotitisation

semi-pervasive and stringer biotitization

648.25 670.00 PY04

Pyrite 4%

up to 4% mg disÆd to Py cubes overall with up to 8% Py stringer to cubes extensional veining controlled locally

682.00	683.00	V470470	0.0020	Au-ICP21	VO20031355
683.00	684.00	V470471	0.0040	Au-ICP21	VO20031355
684.00	685.00	V470472	0.0180	Au-ICP21	VO20031355
685.00	686.00	V470474	0.0240	Au-ICP21	VO20031355
686.00	687.00	V470475	0.0020	Au-ICP21	VO20031355
687.00	688.00	V470476	0.0050	Au-ICP21	VO20031355
688.00	689.00	V470477	0.0010	Au-ICP21	VO20031355
689.00	690.00	V470478	0.0010	Au-ICP21	VO20031355
690.00	691.00	V470479	0.0070	Au-ICP21	VO20031355
691.00	692.00	V470480	0.0050	Au-ICP21	VO20031355
692.00	693.00	V470481	0.0080	Au-ICP21	VO20031355

671.00	671.50	PY10 **Pyrite 10%** up to 10% mg to fg diss'd.	
671.50	695.10	PY00.5 **Pyrite 0.5%** Traces Py.	
655.00	655.20	CS **Cisaillé(e) 20°** shear zone at 20 deg tca shear foliation	20
666.00	667.00	CS **Cisaillé(e) 25°** shear deformation/foliation at 25 deg tca strong carbonate/chlorite/hematite	25

From	To	Description
692.95	**695.10**	V3F; V4; CS **Basalte hyper-magnésien; Volcanique ultramafique; Cisaillé** Strong Mg Basalt to Ulramafic flow, mg to fn grain, dk green bluish tint to dark, foliated at 40 deg tca, deformed, with 25-30 % calcite filled extensional veinlets to fracture filling, moderate fracturing at 30-40 deg tca, Strong, carbonate/serpentine?, hematite alteration weak talcification, weak fenites towards the end of interval Mineralized up to 0.5% mg cubes Py. Lower cntc is at 40 deg tca. Additional notes (by M.Sokolov): From 692.3 to 695.1m - Serpentinized Ultramafic volcanic to Mg-Basalt (komatiitic basalt ?).Dark green-grey to green-black, fine to medium-grained, pervasively serpentinized and amphibolized, moderately soft to scratch. Moderate patchy Carb/Cal in the matrix and in veinlets. Locally weak pink hematite staining on veinlets. Mostly non-magnetic with some magnetic spots; fine Mgt in some Carb veins. Structure: mod-str deformed, sheared, with foliation developed at 30-40CA. Mineralization: traces Py.XRF shows SiO2=27-31%, Mg=11-14%, K=3-6%, Fe=7%, Al=6-8%, elevated Ni (500-600 ppm), Cr (500 ppm), Rb (200-450). The lower contact is distinct, at 15-20CA.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
693.00	694.00		V470482	0.0010	Au-ICP21	VO20031355
694.00	695.00		V470483	**2.6900**	Au-ICP21	VO20031355

692.00 695.10 BO; HM

Biotitisation; Hématisation

Strong biotite, carbonate/serpentine?, hematite alteration, weak talcification. Weaker fenitization towards the end of interval.

From	To	Description
695.10	**702.20**	V3F; V4; CS **Basalte hyper-magnésien; Volcanique ultramafique; Cisaillé** Notes by E.Stavre: 695.1-697.1m - Basalt, magnetic, fine grain dk green to dk grey , massive, foliated at 45 deg tca, mod deformed, with 20-25% calcite filled tension gashes. Strong fenitization, carbonate/hematite/chlorite with increasing biotite zoning overall with stronger patches locally. Mineralized up to 2% mg cubes to blebs Py overall. Lower cntc is approx. 45 deg tca shear fracturing controlled.697.1-698.2m - Basalt to Mg basalt, green to dk green, fine, mass, Intense shear deformation foliation at 35 deg tca, stretched to boudins bio/amphibole to carbonate veinlets. Fenitization increasing along hematite overprinting. Carbonate/chlorite/weak biotite zoning stronger hem patches . Acicular actinolites around carbonate veining. Mineralized up 4% mg to fg diss'd overall. Lower contact is sheared controlled at 20 deg tca.Litho controlled698.2-698.7m - Mineralized Zone:60% alkali syenite orange to redish, med grain, aphanitic, host is strongly sheared at 30 deg tca, fenitized basalt with intense hem pervasive to patches.sheared at 35 deg tca, elongated feldspars foliated at 30 deg tca. strong hematite/carbonate/fenite/string K patches,miIneralized by up to 10% mg to fg diss'd to fract fillingLower cntc is 35 deg tca, litho controlled.698.7-702.2m - Basalt at 35 deg tca, 2-3% calcite tension gashes to stylolites/tectonites,Intense to strong fenitization, carbonate/hematite/chlorite /with biotite increasing zoning.Mineralized by up 4% mg to fg diss'd overall.Lower contact is sheared controlled at 20 d tca. Notes by M.Sokolov:From 695.1 to 702.7m - Patchy fenitized and patchy serpentinized Ultramafic volcanic to Mg-Basalt (komatiitic basalt ?).Mottled, dark grey, black, mauve to pink, composed of fine-grained, serpentinized matrix with red, K-spar-rich patches, "bands" (injections??). Alteration: Moderate to strong, pervasive to patchy serpentinization, possibly chloritization. Moderate carbonatization (calcite) - patchy in the matrix and fracture-filling. Moderate to locally strong K-spar/Hem alteration, patchy,

From	To	Len	SampleID	Au (ppm)	Method	Certificate
695.00	696.00		V470484	**2.1300**	Au-ICP21	VO20031355
696.00	697.00		V470485	**0.2530**	Au-ICP21	VO20031355
697.00	697.50		V470486	**1.0500**	Au-ICP21	VO20031355
697.50	698.30		V470487	**1.7300**	Au-ICP21	VO20031355
698.30	698.70		V470489	**0.5120**	Au-ICP21	VO20031355
698.70	699.20		V470490	**1.1800**	Au-ICP21	VO20031355
699.20	700.00		V470491	**0.1680**	Au-ICP21	VO20031355
700.00	701.00		V470492	**0.2030**	Au-ICP21	VO20031355
701.00	702.00		V470493	**0.2040**	Au-ICP21	VO20031355

band-like.Weak-moderate biotitization in fractures, foliation planes.Minor diss leucoxene.Structure: moderately to strongly sheared rock with foliation developed at 30-35CA. Numerous fractures, tension gashes filled by white calcite.Mineralization: 1-3% Py small disseminated grains, and aggregates in some veins.697.6-697.7 m - 7% fine disseminated Py.No distinct lower contact. The end of fenitization is at ~702.7m.698.05-698.25 m - a felsite dyke(?) with distinct parallel contacts at 20-30CA; fine-grained, massive, siliceous (XRF: SiO2=50-60%, K=0.6-0.8%) and patchy carbonatized, pale to medium grey with yellowish grains of probably leucoxene. Minor patchy yellowish alteration (Ser?), weak patchy reddish Hem alteration, minor Chl, Biot, Act in fractures. Mineralized by 3-5% Py small disseminated grains.

698.05 698.25 V1

Volcanique felsique non divisé 25°

698.05-698.25 m - a felsite dyke(?) with distinct parallel contacts at 20-30CA; fine-grained, massive, siliceous (XRF: SiO2=50-60%, K=0.6-0.8%) and patchy carbonatized, pale to medium grey with yellowish grains of probably leucoxene. Minor patchy yellowish alteration (Ser?), weak patchy reddish Hem alteration, minor Chl, Biot, Act in fractures. Mineralized by 3-5% Py small disseminated grains.

695.10 697.10 HM; FK; CB; BO

Hématisation; Altération en feldspath potassique; Carbonatisation; Biotiti

Strong fenitization, carbonate/hematite/chlorite with increasing biotite.

697.10 698.20 HM; CB

Hématisation; Carbonatisation

Fenitization increasing along hematite overprinting.
Carbonate/chlorite/weak biotite zoning with stronger hematite patches.
Acicular actinolite crystals around carbonate veins.

698.20 698.70 CB; HM; FK

Carbonatisation; Hématisation; Altération en feldspath potassique

strong hematite/carbonate/fenite/string K patches

698.70 702.20 CB; HM; BO

Carbonatisation; Hématisation; Biotitisation

Intense to strong fenitization, carbonate/hematite/chlorite with biotite increasing zoning.

695.10 697.10 PY02

Pyrite 2%

up to 2% mg cubes to blebs Py overall.

697.10 698.20 PY04

Pyrite 4%

up to 4% mg to fg dissÆd overall.

698.20	698.70	PY10	
		Pyrite 10%	
		up to 10% mg to fg diss'd to fract filling	
698.70	702.20	PY02	
		Pyrite 2%	
		up to 4% mg to fg dissÆd overall.	
697.10	698.20	CS	35
		Cisaillé(e) 35°	
		Intense shear deformation foliation at 35 deg tca, stretched to boudins biotite/amphibole to carbonate veinlets.	

From	To	Description
702.20	**710.20**	V3F; MA
		Basalte hyper-magnésien; Roche massive
		Mg basalt, dk green, fine grained, massive, non magnetic. foliated at 40 deg tca,acicular actinolite configuration abundant. 2-3% calcite/chlorite filled fractures. Weak fenitization decreasing, strong to intense biotite with carbonate/weak to moderate hematite/chlorite/amphibole zoning with few serpentinized sections(703.9m-704.2m, ultramafic flow?) spots. Mineralized up to 0.5% Py cubes. Additional notes (by M.Sokolov): From 710.2 to 717m - Ultramafic to Mg-Basalt, possibly komatiitic Basalt.Dark grey-green, fine to medium-grained, massive, uniform rock with pervasively serpentinized and amphibolized matrix. Distinct green actinolite patches, sometimes needles. Carbonate/calcite is patchy; it is moderate, semi-pervasive in the upper portion and weaker in the lower parts. Minor disseminated grey leucoxene. Non-magnetic. Locally weak, patchy, reddish Hem/K and biotite alteration (fenitization). Structure: the upper portion of the unit is moderately sheared, foliated at 25-35CA. The lower portion is weakly fractured, less sheared, with intermittently-developed foliation at 20 to 55CA. Calcite in fractures.Mineralization: traces Py.
703.90	704.20	V4; CS
		Volcanique ultramafique; Cisaillé
		ultramafic flow(?) spots
702.20	705.70	BO; ST

From	To	Len	SampleID	Au (ppm)	Method	Certificate
702.00	703.00		V470494	**0.2670**	Au-ICP21	VO20031355
703.00	704.00		V470495	0.0030	Au-ICP21	VO20031355
704.00	705.00		V470496	0.0010	Au-ICP21	VO20031355
705.00	706.00		V470497	0.0140	Au-ICP21	VO20031355
706.00	707.00		V470498	0.0020	Au-ICP21	VO20031355
707.00	708.00		V470499	0.0010	Au-ICP21	VO20031355
708.00	709.00		V470500	0.0010	Au-ICP21	VO20031355
709.00	710.00		V473601	0.0020	Au-ICP21	VO20031355

Biotitisation; Serpentinisation

weak fenitization decreasing, strong to intense biotite with carbonate/weak to moderate hematite/chlorite/amphibole zoning witth few serpentinized sections(703.9m-704.2m, ultramafic flow?) spots.

702.20 705.70 PY00.5

Pyrite 0.5%

Traces Py.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
710.20	**717.00**	V4; MA	710.00	711.00		V473602	0.0010	Au-ICP21	VO20031355
		Volcanique ultramafique; Roche massive	711.00	712.00		V473603	0.0020	Au-ICP21	VO20031355
		Ultramafic Volcanic, dark green, medium to fine-grained, massive, aphanitic, weakly to moderately sheared, with strong semi-pervasive serpentine/talc alteration alternating with chlorite/biotite. Minor serpentine/chlorite/carbonate-filled low core-angle fracturing.	712.00	713.00		V473604	0.0020	Au-ICP21	VO20031355
			713.00	714.00		V473605	0.0060	Au-ICP21	VO20031355
			714.00	715.00		V473606	0.0020	Au-ICP21	VO20031355
			715.00	716.00		V473607	0.0120	Au-ICP21	VO20031355
		Mineralization: traces to 0.5% Py.	716.00	717.00		V473609	0.0020	Au-ICP21	VO20031355

705.70 717.00 ST; CL; BO

Serpentinisation; Chloritisation; Biotitisation

strong semipervasive serpentine/talc with chlorite/biotite alternating.

710.20 717.00 ST; CL; BO

Serpentinisation; Chloritisation; Biotitisation

Strong semi-pervasive serpentinization alternating with chlorite/biotite. Minor serpentine/chlorite/carbonate-filled low core-angle fractures.

705.70 717.00 PY00.1

Pyrite 0.1%

Traces Py.

Downhole Survey

Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method
0.00	352.00	-70.00	Collar	72.00	352.77	-72.42	Reflex EZ-Gyro	81.00	352.63	-72.42	Reflex EZ-Gyro
90.00	352.64	-72.24	Reflex EZ-Gyro	120.00	353.00	-71.51	Reflex EZ-Gyro	150.00	352.90	-71.10	Reflex EZ-Gyro
180.00	353.47	-71.13	Reflex EZ-Gyro	210.00	355.29	-71.38	Reflex EZ-Gyro	240.00	355.20	-71.41	Reflex EZ-Gyro
270.00	355.95	-71.49	Reflex EZ-Gyro	300.00	355.42	-71.42	Reflex EZ-Gyro	330.00	356.03	-71.21	Reflex EZ-Gyro
360.00	356.10	-70.92	Reflex EZ-Gyro	390.00	355.98	-70.69	Reflex EZ-Gyro	420.00	357.51	-70.81	Reflex EZ-Gyro
450.00	357.20	-70.97	Reflex EZ-Gyro	480.00	357.30	-71.00	Reflex EZ-Gyro	510.00	357.54	-70.97	Reflex EZ-Gyro
540.00	358.01	-70.95	Reflex EZ-Gyro	570.00	358.07	-70.69	Reflex EZ-Gyro	600.00	359.95	-70.28	Reflex EZ-Gyro
630.00	0.31	-70.06	Reflex EZ-Gyro	660.00	359.97	-69.69	Reflex EZ-Gyro	690.00	0.53	-69.48	Reflex EZ-Gyro
714.00	1.80	-68.36	Reflex EZ-Gyro								

Drillhole Information

Easting:	709102.49
Northing:	5489905.74
Elevation:	302.12
Azimuth	357.10
Dip	-60.50

Drilling Information

DrillCo:	Pikogan
DrillID:	PK1
DrillStart:	28-Jan-20
DrillEnd:	20-Feb-20
Length (m):	95.00

Logging Information

LogBy:	
LogStart:	28-Jan-20
LogEnd:	20-Feb-20

Drillhole Summary

Failed hole

Abandoned in overburden.
Not analyzed.

MAPLE GOLD MINES

12-Jan-22

Lithology and Assay Results

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
0.00	**95.00**	M-T **Mort terrain** Overburden. Hole abandoned.							

Downhole Survey

Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method
0.00	357.10	-60.50	Collar								

Drillhole Information

Easting:	708899.70
Northing:	5489976.81
Elevation:	310.55
Azimuth	360.00
Dip	-59.50

Drilling Information

DrillCo:	Pikogan
DrillID:	PK1
DrillStart:	03-Feb-20
DrillEnd:	04-Feb-20
Length (m):	74.00

Logging Information

LogBy:	
LogStart:	03-Feb-20
LogEnd:	04-Feb-20

Drillhole Summary

Failed hole

Abandoned in overburden.
Not analyzed.

MAPLE GOLD MINES

12-Jan-22

Lithology and Assay Results

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
0.00	**74.00**	M-T **Mort terrain** Overburden. Hole abandoned.							

Downhole Survey

Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method
0.00	360.00	-59.50	Collar								

Drillhole Information

Easting: 704773.07
Northing: 5492401.80
Elevation: 289.56
Azimuth 360.00
Dip -55.00

Drilling Information

DrillCo: Roby
DrillID: R4
DrillStart: 20-Feb-20
DrillEnd: 24-Feb-20
Length (m): 75.80

Logging Information

LogBy: E. Stavre (OGQ #2144)
LogStart: 24-Feb-20
LogEnd: 24-Feb-20

Drillhole Summary

Intercepts >= 0.1 ppm

Hole_ID	From	To	Length	Au (ppm)
DO-20-272	37	40	3	2.274
DO-20-272	47	72	25	0.373

E. Stavre (OGQ #2144)
12-Jan-22

Lithology and Assay Results

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
0.00	**36.50**	M-T **Mort terrain** Overburden, gabbro boulder with few andesite composed grinded core.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
36.50	**39.04**	TU1; AP **Tuf felsique; Aphanitique** Felsic Tuff, (Arkose(?) exhalites(?)) Grey to beige,sparse felsic(?) lapilli, mm size porphyroblast quartz eyes, feldspar grains to fragments, to detritus. Fine grain matrix, sericitic overall. Deformed at 50-55 deg tca, mm size quartz boudins, to erratic, sericite webs to intergranular to rare clay stringers. Beige K-spar altertion envelope around felsic fragments.Mineralized trace to <1% fg Py fracture controlled to clast controlled, overprinting. Trace specularite. 36.5m-37m mixture of gabro mafic boulders sampling starts at 37m.	37.00	38.00		V472001	**0.2750**	Au-ICP21	VO20059813
			38.00	39.00		V472002	0.0970	Au-ICP21	VO20059813
37.00	39.00	SR; CB; CC **Séricitisation; Carbonatisation; Calcitisation** Moderate/strong semi pervasive sericitization, pervasive carbonatisation, moderate calcification. Patchy moderate K-spar alteration around felsic fragments.							
37.00	39.00	PY00.5 **Pyrite 0.5%** Mineralized trace to <1% fine grain Py fracture controlled to clast controlled, overprinting. Trace specularite. Lower contact 39 m-39.04 m mineralized at 4% Py, fine grain disseminated to fracture filling.							
37.00	39.00	CS **Cisaillé(e)** Deformed at 50-55 deg tca, budinaged quartz fragments, felsic fragments,							

shear foliation at 55 deg tca. Moderate quartz stringers to fracturing at 60 deg tca 37.5m one 1mm size stepping qtz filled styliolite.

From	To	Description
39.04	**49.00**	TU1 **Tuf felsique** Felsic? tuff, (Sediment-exhalites?). Lapilli, beige to yellowish, patchy magnetic, mm size qtz porhyro blasts, detritus, to cm size angular to deformed felsic clasts carbonatite subangular framents at upper contact, strongly deformed at 50 deg tca, <5%redish alkali syenite mm size injections to fragmments with abundant magnetite overprinting with sericite marking up foliation.(39.25m-40.5m, 41.7m-42.6m, 44,7m-45.2m, 47.8m, 48.36m). 39.0m-39.85m 70% flourine rich Carbonatite, bluish, mass with tuff fragmets. Mineralized at 3-4% medium grain to fine grain disseminated Py blebby to fracture controlled contact mineralization. Elongated quartz grains to streched feldspar laths. Sericitic with weak to moderate silicification patches. Envelope K-spar alteration around felsic fragments only. Mineralized at 1-2% fine grain disseminated to blebby arond felsic fragments. Rare specularite. Lower contact is 60 deg tca.
39.04	49.85	I4Q; MA **Carbonatite; Roche massive** 39.0m-39.85m 70% flourine rich Carbonatite, bluish, mass, with tuff fragmets.Fractured. Mineralized at 3-4% medium grain to fine grain Py disseminated blebby to fractures controlled contact mineralization. Lower contact is sharp.
39.00	49.00	SR; CB; SI; FK **Séricitisation; Carbonatisation; Silicification; Altération en feldspath potas** Sericitic with weak to moderate silicification patches. Envelope K-spar alteration around felsic fragments only.
39.04	40.50	PY03 **Pyrite 3%** Mineralized at 3% medium grain to fine grain Py disseminated blebby to fractures controlled contact mineralization overall with up to 3% felsic fragments overprinting to fracture filling.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
39.00	40.00		V472003	**6.4500**	Au-ICP21	VO20059813
40.00	41.00		V472004	0.0400	Au-ICP21	VO20059813
41.00	42.00		V472005	0.0310	Au-ICP21	VO20059813
42.00	43.00		V472006	0.0050	Au-ICP21	VO20059813
43.00	44.00		V472007	0.0010	Au-ICP21	VO20059813
44.00	45.00		V472009	0.0050	Au-ICP21	VO20059813
45.00	46.00		V472010	0.0250	Au-ICP21	VO20059813
46.00	47.00		V472011	0.0370	Au-ICP21	VO20059813
47.00	48.00		V472012	**0.3240**	Au-ICP21	VO20059813
48.00	48.40		V472013	**0.1810**	Au-ICP21	VO20059813
48.40	49.00		V472014	0.0090	Au-ICP21	VO20059813

40.50	41.70	PY01 **Pyrite 1%** Trace to 1% fine grain Py disseminated.	
41.70	42.60	PY04; HS01 **Pyrite 4%; Spécularite 1%** Up to 4% fine grain disseminated blebby Py felsic fragments overprinting.	
42.60	44.70	PY00.5 **Pyrite 0.5%** Trace to 1% fine grain disseminated to fracture filling.	
44.70	45.20	PY03; HS00.5 **Pyrite 3%; Spécularite 0.5%** Up to 3% fine grain Py disseminated blebs.	
45.20	47.80	PY00.5 **Pyrite 0.5%** Trace to 0.5% fine grain Py.	
48.00	48.40	PY04; HS01 **Pyrite 4%; Spécularite 1%** Mineralized at 3-4% medium grain to fine grain Py disseminated blebby to fractured controlled contact mineralization.	
39.04	49.00	CS **Cisaillé(e) 55°** Strongly deformed at 50 deg tca, <5% redish alkali syenite mm size injections to fragments with abundand magnetite overprinting with sericite marking up foliation.(39.25m-40.5m, 41.7m-42.6m, 44,7m-45.2m, 47.8m-48.36m).	55

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
49.00	**51.20**	S **Sédiments non divisé** Lithic Sandstone, beige to yellowish, fine grain to very fine grain, deformed at 50 deg tca, thin lamination, sericitic. Mineralization trace to 0.5% fine grain disseminated Py.	49.00	50.00		V472015	0.0150	Au-ICP21	VO20059813
			50.00	51.00		V472016	0.0040	Au-ICP21	VO20059813

49.00	51.20	SR; CB **Séricitisation; Carbonatisation** sericitic/carbonate.
49.00	51.00	PY00.5 **Pyrite 0.5%** Trace fine grain Py.

49.00	51.00	CS	55
		Cisaillé(e) 55°	
		Deformed at 50 deg tca,	

From	To	Description
51.20	**54.20**	V2J; AP
		Andésite; Aphanitique
		Interrmediate Volcanic. Greyish to pinkish, medium, porphyritic, faint feldspar, weak deformation, weakly fractured at 65 deg tca with mostly silica filled hairline fractures. Up to 20% quartz/carbonate veinlet to tension gashes to stockwork with one dolomite/quartz veinlet at 54 m-54.2 m. Weak K-spar alteration envelopes, moderate to strong silicification.Pervasive moderate to stronger carbonatization(calcite). Weak fenitization. Mineralization up to 1% fine grain to very fine grain Py disseminated overall with up to 2% around veinlets. Lower contact is sheared at 55 deg tca.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
51.00	52.00		V472017	**0.2490**	Au-ICP21	VO20059813
52.00	53.00		V472018	**0.2830**	Au-ICP21	VO20059813
53.00	54.00		V472019	**0.3390**	Au-ICP21	VO20059813

51.20	54.20	SI; CB
		Silicification; Carbonatisation
		Moderate K-spar alteration envelopes, moderate to strong silicification. Pervasive moderate to stronger carbonatization(calcite). Weak fenitization.
51.00	54.20	PY01
		Pyrite 1%
		Mineralization up to 1% fine grain to very fine grain Py disseminated overall with up to 2% around veinlets.

From	To	Description
54.20	**56.85**	S; LP
		Sédiments non divisé; Laminations parallèles
		Lithic(?) sediments, green to beige, fine grain, laminated, at 65 deg tca, felsic/intermediate bedding, with <30% thin carbonate/quartz stringers concordant. Sericitic.weak silicification. carbonate. Mineralization trace to 0.5% fg Py overall.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
54.00	55.00		V472020	**0.7440**	Au-ICP21	VO20059813
55.00	56.00		V472021	**0.6630**	Au-ICP21	VO20059813
56.00	57.00		V472022	**0.1520**	Au-ICP21	VO20059813

54.20	56.80	SR; CB; SI

Séricitisation; Carbonatisation; Silicification

Sericitic. Weak silicification. Carbonate.

54.20 56.80 PY00.5

Pyrite 0.5%

Mineralization trace to 0.5% fine grain Py overall.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
56.85	**59.50**	V2J; AP; PO	57.00	57.60		V472023	0.0210	Au-ICP21	VO20059813
		Andésite; Aphanitique; Porphyrique	57.60	58.30		V472024	**0.1680**	Au-ICP21	VO20059813
		intermediate volcanic, greysh to pinkish medium, aphanitic to porphyritic, faint feldspar, weak deformation, weakly fractured. Up to 30% quartz/carbonate veinlet to tension gashes to stockwork with one dolomite/quartz veinlet.	58.30	59.00		V472026	**0.2490**	Au-ICP21	VO20059813
			59.00	60.00		V472027	**0.2680**	Au-ICP21	VO20059813
		Weak K-spar alteration envelopes, moderate silicification. Intergranular sericite to flakes. Pervasive moderate carbonatization moderate rare hematite patches. Sstronger fenitization. Mineralization up to 1% fine grain to very fine grain Py disseminated overall with up to 2% around veinlets.							
		Lower contact is sheared at 55 deg tca							
		56.80 59.50 SI; CB; HM; FK							
		Silicification; Carbonatisation; Hématisation; Altération en feldspath pota							
		Moderate K-spar alteration envelopes, moderate silicification. Intergranular sericite to flakes. Pervasive moderate carbonatization moderate rare hematite patches. Stronger fenitization.							
		56.80 59.50 PY01							
		Pyrite 1%							
		Mineralization up to 1% fine grain to very fine grain Py disseminated overall with up to 2% around veinlets.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To		From	To	Len	SampleID	Au (ppm)	Method	Certificate
59.50	**62.50**	TU2 **Tuf intermédiaire** Silicified Tuff (intermediate?) with fine grain sediment. Lapilli with felsic angular fragments, quartz eyes lesser deformed feldspar laths (Exhalite(?)) beige, fine grain, premature bedding, thin lamination, deformed at 55 deg tca, moderate silica/sericite filling fracturing. Pervasive sericite/with strong pervasive silicification. Carbonatization moderate to stronger intesity. Minerlaization up to 1% fine grain to blebby overall with up to 4% where alkali felsic fragments (upper contact unit 60.85m-61.08m). Lower contact is graditional.	60.00	60.80		V472028	**0.3390**	Au-ICP21	VO20059813
			60.80	61.30		V472029	**1.1800**	Au-ICP21	VO20059813
			61.30	62.00		V472030	**0.3020**	Au-ICP21	VO20059813
			62.00	63.00		V472031	**0.5310**	Au-ICP21	VO20059813
59.50	62.50	SR; CB; SI **Séricitisation; Carbonatisation; Silicification** moderate silica/sericite filling fracturing.pervasive sericite/with strong pervasive silicification. Carbonatization moderate to stronger intesity.							
59.50	60.80	PY01 **Pyrite 1%** Minerlaization up to 1% fine grain to blebby overall with up to 4% where alkali felsic fragments (upper contact unit 60.85m-61.08m).							
60.80	61.08	PY04 **Pyrite 4%** Minerlaization up to 1% fine grain to blebby overall with up to 4% where alkali felsic fragments (upper contact unit 60.85m-61.08m).							
61.08	62.50	PY00.5 **Pyrite 0.5%** Minerlaization up to 1% fine grain to blebby.							

From	To	Description
62.50	**65.50**	TU2 **Tuf intermédiaire** Intermediate tuff <60% felsic clasts somewhat deformed, concordant(tuff), beige, fine grain, with <10% sericite thin altered laminated sediment (?), deformed elongated feldspar and subrounded quartz crystal, with <10% mm size felsic angular clast siilica filled hairline to <1mm size fractured, deformed at 55 deg tca, String silicification. Strong carbonatization. Mineralized up to 0.5% fine grain disseminated Py overall with up to 2% fine grain disseminated to blebby where felsic clats overprinting only. Lower contact graditional.
62.50	65.50	SI; SR; CB **Silicification; Séricitisation; Carbonatisation** Strong silicification. Strong carbonatization.
62.50	65.50	PY00.5 **Pyrite 0.5%** Mineralized up to 0.5% fine grain disseminated Py overall with up to 2% fine grain disseminated to blebby where felsic clasts overprinting only.
62.50	65.50	CS55 **Cisaillé(e)55** Deformed at 55 deg tca

From	To	Len	SampleID	Au (ppm)	Method	Certificate
63.00	64.00		V472032	**0.9080**	Au-ICP21	VO20059813
64.00	65.00		V472033	**1.1150**	Au-ICP21	VO20059813
65.00	66.00		V472034	**1.0600**	Au-ICP21	VO20059813

From	To	Description
65.50	**68.30**	TU2 **Tuf intermédiaire** intermediate tuff patchy magnetic towards lower contact, with <10% fine grain sediment(exhalites), beige, fine, deformed 55 deg tca, sericitic/silicified. mm size quartz eye with feldspar shadow to elongated laths to equigranular sections. ~5% subangular felsic clasts with Py overprinting. Moderate fracturing with hairline silica/sericite filled fractures, high angle tca. Moderate silicification. moderate to stronger carbonatization. Mineralized trace to 0.5% fg Py overall. Lower contact is defined at 65 deg tca.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
66.00	67.00		V472035	0.0240	Au-ICP21	VO20059813
67.00	68.00		V472036	**0.1220**	Au-ICP21	VO20059813
68.00	68.40		V472037	**0.2770**	Au-ICP21	VO20059813

65.50	68.30	CB; SR	
		Carbonatisation; Séricitisation	
		Moderate silicification. Moderate to stronger carbonatization.	
65.50	69.00	PY00.5	
		Pyrite 0.5%	
		Trace Py.	
65.50	69.00	CS	55
		Cisaillé(e) 55°	
		Deformed at 55 deg tca	

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
68.30	**69.00**	I4Q	68.40	69.00		V472038	**0.1830**	Au-ICP21	VO20059813
		Carbonatite 65°							
		Carbonatite, grey fine grain, mass, REE elevated, phosphorous (PO4=19.34%). >50 intense carbonatization(calcitic). Moderate fracturing with calcite filled fractures high angle tca.							
		Strong pervasive silicification, carbonatization.							
		Minerlaized trace.							
		Lower contact defined at 65 deg tca.							

68.30	69.00	CC; CB	
		Calcitisation; Carbonatisation	
		Strong pervasive silicification and carbonatization.	

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
69.00	**75.80**	TU2	69.00	70.00		V472039	**0.2780**	Au-ICP21	VO20059813
		Tuf intermédiaire 55°	70.00	71.00		V472041	0.0470	Au-ICP21	VO20059813
		Intermediate tuff, mm size lapilli, welded (?), cm size felsic fragments, beige, fine grain, deformed at 55 deg tca. <10% laminated sediments(exhalites(?)) concordant deformation. Sericitization, weak silicification to moderate silicification patches.	71.00	72.00		V472042	**0.5120**	Au-ICP21	VO20059813
			72.00	73.00		V472043	0.0180	Au-ICP21	VO20059813
			73.00	74.00		V472044	0.0260	Au-ICP21	VO20059813
			74.00	75.00		V472045	0.0070	Au-ICP21	VO20059813
		Carbonatization moderate to strong alternating. Mineralized trace py overall with <1% fine grain blebs around felsic fragments overprinting only.	75.00	75.80		V472046	0.0040	Au-ICP21	VO20059813

69.00	75.80	CB; SR; SI **Carbonatisation; Séricitisation; Silicification** Sericitization, weak silicification to moderate silicification patches. Carbonatization moderate to strong alternating.	
69.00	75.80	PY00.5 **Pyrite 0.5%** Mineralized trace py overall with <1% fine grain blebs around felsic fragments overprinting only.	
69.00	75.80	CS **Cisaillé(e) 55°** Deformed at 55 deg tca	55

Downhole Survey

Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method
0.00	360.00	-55.00	Collar	42.00	357.09	-53.77	Reflex EZ-Gyro	51.00	355.46	-50.64	Reflex EZ-Gyro
66.00	355.33	-48.78	Reflex EZ-Gyro								

Drillhole Information

Easting: 704773.13
Northing: 5492400.46
Elevation: 289.71
Azimuth 360.00
Dip -60.00

Drilling Information

DrillCo: Roby
DrillID: R4
DrillStart: 24-Feb-20
DrillEnd: 04-Mar-20
Length (m): 408.00

Logging Information

LogBy: E. Stavre (OGQ #2144)
LogStart: 26-Feb-20
LogEnd: 14-Mar-20

Drillhole Summary

Intercepts >= 0.1 ppm

Hole_ID	From	To	Length	Au (ppm)
DO-20-272A	37.6	43	5.4	2.664
DO-20-272A	47	73	26	0.925
DO-20-272A	76	79	3	0.151
DO-20-272A	94	95	1	1.75
DO-20-272A	152	153	1	0.104

E. Stavre (OGQ #2144)
12-Jan-22

Lithology and Assay Results

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
0.00	**33.00**	M-T **Mort terrain** Boulders, gabbro few mafic volcanic							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
33.00	**36.20**	TU2; AP **Tuf intermédiaire 45°; Aphanitique** Intermediate tuff.Green to beige, aphanitic, lapilli, mm size quartz eyes to clasts with reddish volcanic subangular fragments boudinaged, stretched and elongated, deformed, at ~45 degree to core axis. Foliation with minor sericite/carbonate filled fracturing at ~55 degree to core axis. <5% felsic volcanic injections <1cm throughout concordant deformation. Strong pervasive sericite/carbonate/pyrite chief alteration assemblage with weak silicification. Mineralized up to 0.5% fine-grain fracture filling. Trace specular hematite.Lower contact is sericite defined mineralized at 0.5% very-fine grain disseminated pyrite at 45 degree ca.	33.00	34.00		V472047	0.0320	Au-ICP21	VO20059813
			34.00	35.00		V472048	0.0010	Au-ICP21	VO20059813
			35.00	36.00		V472049	0.0005	Au-ICP21	VO20059813
33.00	36.20	SR; CB; SI **Séricitisation; Carbonatisation; Silicification** Strong pervasive sericite/cabonate/Py chief alteration asemblage with weak silicification.							
33.00	36.20	PY00.5 **Pyrite 0.5%** Mineralized up to 0.5% fine grain fracture filling. Trace specular hematite.							
33.00	36.20	CS45 **Cisaillé(e)45** Redish V1 subangular fragments boudinaged, streched and elongated, deformed, at ~45 degree to core axis foliation with minor							

sericite/carbonate filled fracturing at ~55 degree to core axis. <5% felsic volcanic injections<1cm throughout concordant deformation.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
36.20	**36.85**	V1; AP **Volcanique felsique non divisé; Aphanitique** Dacite.Dark greysh to reddish, aphanitic, faint quartz /plagioclase with rare faint equigranular (?) feldspar.Unit is intruded by a Carbonatite (see sublitho tab) intr. 36.4-36.85 with volcanic host. Lower contact defined.Silica filled fracturing weak to moderate, carbonate/pyrite/weak to moderate hematite, flakes of sericite to stronger sericite webs to stringer/fracture filling. Weakly fenitized. Mineralized up to 2% fine-grain to very-fine grain pyrite stringers to fracture filling. Lower contact is at 50 degree to core axis.	36.00	36.70		V472050	0.0250	Au-ICP21	VO20059813
36.40	36.85	I4Q; AP **Carbonatite; Aphanitique** Carbonatite, greyish, fine grain to aphanitic, mass, strong calcitic. Minor calcite filling fracturing. Mineralized trace to 1% fine grain Py disseminated.							
36.20	36.85	CB; SR; SI **Carbonatisation; Séricitisation; Silicification** Silica filled fracturing weak to moderate, carbonate/Py/weak to moderate hematite, flakes of sericite to stronger sericite webs to stringer/fracture filling. Weakly fenitized.							
36.20	36.85	PY02 **Pyrite 2%** Mineralized up to 2% fine grain to very fine grain pyrite stringers to fracture filling.							
36.20	36.85	FA **Fracturé(e)** Silica filled fracturing weak to moderate.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
36.85	**39.82**	TU2; CS **Tuf intermédiaire; Cisaillé 45°** Intermediate tuff. Patchy magnetic, beigeish to lighter beigeish, aphanitic, sparse lapilli, <10% felsic subrounded reddish volcaniclastic felsic (dacite (?)) fragments to thin <1cm injections. Deformed to 45 degree to core axis foliation planes, elongated mm size quartz/K-feldspar to boudins. Fenitized bands or envelope where volcanic injcections. Strong to intense pervasive sericite to intense sericite alternating to fracture filling and/or webs, /carbonate/to lesser pyrite alteration. Hematite /k-feldspar alteration around felsic injections, otherwise weak to moderate silicification. Mineralization up to 2% medium-grain to fine-grain pyrite stringers/blebby volcanics fragments/injections overprinting. Lower contact is at 60 degree to core axis felsic unit defined trace pyrite. <2% magntite disseminated.	36.70	37.60		V472051	0.0170	Au-ICP21	VO20059813
			37.60	38.60		V472052	**0.1440**	Au-ICP21	VO20059813
			38.60	39.60		V472053	0.0900	Au-ICP21	VO20059813
36.85	39.82	SR; CB; HM; FK **Séricitisation; Carbonatisation; Hématisation; Altération en feldspath pot** Fenitized bands or envelope where V1 injections.Strong to intense pervasive sericite to intense sericite alternating to fract filling and/or webs, /carbonate/to lesser Py alteration. Hem/K alteration around felsic injections, otherwise weak to moderate silicification.							
36.85	39.82	PY02 **Pyrite 2%** Mineralization up to 2% medium grain to fine grain pyrite stringers/blebby volcanic fragments/injections overprinting.							
36.85	39.82	CS **Cisaillé(e)** Deformed to 45 degree to core axis foliation planes, elongated mm size quartz/feldspar K to boudins.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
39.82	**40.70**	V1; AP **Volcanique felsique non divisé 60°; Aphanitique** Mineralized Zone: 70% Dacite, 30% intermediate tuff (40.5m-40.28m), aphanitic, magnetic, reddish, to dark greyish, foliated at 45 degree to core axis spase sericite/silica/pyrite filled fractures. Deformed at 45 degree overall. Strong pervasive carbonate, banding Fe-carbonate/ strong semipervasive sericite to intense sericite bands to fracture filling. Mineralized up to 15% fine-grain disseminated to blebby Py, overprinting. Moderate to intense magnetite. Lower contact at 45 degree to core axis defined.	39.60	40.20		V472054	**0.7040**	Au-ICP21	VO20059813
			40.20	40.70		V472055	**8.1300**	Au-ICP21	VO20059813
40.05	40.28	TU2; AP **Tuf intermédiaire; Aphanitique** Mineralized Zone:Intermediate tuff, beigeish, aphanitic, magnetic, lapilli, foliated at 45 deg tca, qtz eyes elongated to boudinaged, subangular felsic frags. Sericite/Fe carbonate, weak silicificaton.Mineralized up to 8-9% medium grain to fine grain blebby to stringers.							
39.82	40.70	CB; SR **Carbonatisation; Séricitisation** String pervasive carbonate, banding Fe-carbonate/ strong semipervasive sericite to intense sericite bands to fract filling.							
39.82	40.70	PY15; medium grain **Pyrite 15%; Magnétite** Mineralized up to 15% fine grain disseminated to blebby pyrite, overprinting. Moderate to intense magnetite.							
39.82	40.70	CS45 **Cisaillé(e)45** Foliated at 45 degree tca,sparse sericite/silica/Py filled fractures. Deforemd at 45 deg.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
40.70	**41.58**	TU2; AP **Tuf intermédiaire 50°; Aphanitique** Intermediate tuff.(<10% felsic volcanic 1.5cm-2cm at 41.07m-41.2m), aphanitic, beige, quartz clats, elongated feldspar to boudins, volcanic fragments. Strong pervasive sericite,carbonate, weak Fe-carbonate. Moderate silicification. 2-3% silicified filled hairline fracturing. Mineralized up to 1% fine-grain fracture filling to pyrite stringers overall with up to 5% medium-grain to fine-grain pyrite blebby to stringers locally around felsic injections (41.07m-41.2m). Lower contact is at 50 degree to core axis.	40.70	41.30		V472057	**1.7250**	Au-ICP21	VO20059813
40.70	41.58	SR; CB **Séricitisation; Carbonatisation** Strong pervasive sericite,carbonate, weak Fe-carbonate. moderate silicification.							
40.70	41.07	PY01 **Pyrite 1%** Mineralized up to 1% fine grain fracture filling to pyrite stringers overall.							
41.07	41.20	PY05 **Pyrite 5%** Up to 5% medium grain to fine grain pyrite blebby to stringers locally around felsic injections (41.07m-41.2m).							
41.20	41.58	PY01 **Pyrite 1%** Mineralized up to 1% fine grain fracture filling to pyrite stringers							
40.70	41.58	FA03 **Fracturé(e)3** 2-3% silicified filled hairline fracturing.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
41.58	**42.07**	V1; AP **Volcanique felsique non divisé; Aphanitique** Mineralized Zone: 80% Dacite, reddish, aphanitic, foliated at 45 degree to core axis; Fe-carbonate/ carbonate/silicification/ sericite/ hematite . Fenitized. Mineralized up to 10% medium-grain to fine-grain disseminated to pyrite stringers/blebby. 41.56m-41.7m. Intermediate tuff, lapilli, deformed at 45 degree to core axis Sericite/carbonate/pyrite alteration. Mineralized up to 1% fine-grain pyrite stringers. 41.7m-42m. One bluish carbonatite unit, mass, calcite filled tension gashes, strong fluorite/calcite. mineralized up to 2% fine-grain blebby pyrite towards lower contact. Overall lower contact is at 45 degree to core axis.	41.30	41.90		V472058	**13.2500**	Au-GRA2	VO20059813
41.56	41.70	TU2; AP **Tuf intermédiaire 45°; Aphanitique** 41.56m-41.7m intermediate tuff, lappilli, deformed at 45 deg tca,Sericte/carbonate/Py alteration. Mineralized up to 1% fine grain Py stringers.							
41.70	42.20	I4Q; MA **Carbonatite; Roche massive** One bluish carbonatite unit, mass, calcite filled tension gashes, strong flourine/calcite. Mineralized up to 2% fine grain blebby Py towards Lower contact.							
41.58	42.07	CB; SI; SR; HM; FK **Carbonatisation; Silicification; Séricitisation; Hématisation; Altération en f** Fe-carbonate/carbonate/silicification/ sericite/ hematite. Fenitized where injections and fragments.							
41.58	42.07	PY10 **Pyrite 10%** Mineralized up to 10% medium grain to fine grain disseminated. to pyrite stringers/blebby.							
41.58	42.07	CS45 **Cisaillé(e)45** Foliated at 45 degree tca.							

42.07	**48.40**	TU2; TU2; AP					
		Tuf intermédiaire; Tuf intermédiaire 45°; Aphanitique					
		Intermediate tuff.Beige to yellowish, aphanitic, lapilli, quartz clasts, mm size angular to boudinaged felsic fragments, foliated at 50-55 degree to core axis. Moderate silicified /sericite filled fracturing concordant. One 10cm volcanic unit at 42.5m-42.6m at 45 degree to core axis fenitized, with up to 5% medium-grain to fine-grain pyrite bands to blebby overprinting.Carbonate/sericite/pottasic main chief with moderate silicification sections. Mineralized up to 1% fine-grain pyrite stringers to volcanic overprinting overall with up to 3% medium-grain to fine-grain pyrite blebs volcanic controlled/overprinting (48.1m-48.4m). Lower contact is sheared at 45 degree to core axis 1-2% fine-grain pyrite stringers.					
42.50	42.60	V1					
		Volcanique felsique non divisé 45°					
		One 10cm V1 unit at 42.5m-42.6m at 45 deg tca, fenitized, with up to 5% medium grain to fine grain Py bands to blebby overprinting.					
42.07	48.40	CB; SR; FK; SI					
		Carbonatisation; Séricitisation; Altération en feldspath potassique; Silicifi					
		Carbonate/sericite/potassic main chief with moderate silicification sections.					
42.07	42.50	PY01					
		Pyrite 1%					
		Mineralized up to 1% fine grain pyrite stringers to V1 overprinting overall.					
42.50	42.60	PY05					
		Pyrite 5%					
		42.5m-42.6m at 45 degree tca, fenitized, with up to 5% medium grain to fine grain pyrite bands to blebby overprinting.					
42.60	48.10	PY01					
		Pyrite 1%					
		Mineralized up to 1% fine grain pyrite stringers.					
48.10	48.40	PY03					
		Pyrite 3%					
		with up to 3% medium grain to fine grain pyrite blebs V1 contrilled/overprinting					
42.07	48.04	FA25	55				
		Fracturé(e)25 55°					

41.90	42.40	V472059	**0.6280**	Au-ICP21	VO20059813
42.40	43.00	V472060	**0.6130**	Au-ICP21	VO20059813
43.00	44.00	V472061	0.0340	Au-ICP21	VO20059813
44.00	45.00	V472062	0.0270	Au-ICP21	VO20059813
45.00	46.00	V472063	0.0010	Au-ICP21	VO20059813
46.00	47.00	V472064	0.0030	Au-ICP21	VO20059813
47.00	48.00	V472065	**0.1310**	Au-ICP21	VO20059813

Foliated at 50-55 degree tca. Moderate silicified /sericite filled fracturing concordant.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
48.40	**51.37**	TU2; S; AP	48.00	49.00		V472066	0.0190	Au-ICP21	VO20059813
		Tuf intermédiaire; Sédiments non divisé; Aphanitique	49.00	50.00		V472067	0.0790	Au-ICP21	VO20059813
		Intermediate tuff. Sediments (?).	50.00	51.00		V472068	**0.9430**	Au-ICP21	VO20059813
		Beige to light beige, aphanitic, abundant quartz shards to mm size clasts. <15-20% volcanic angular to subangular fragments.45 degree foliation with <10% sericite/carbonate filled fractures, concordant. Sheared unit with cm size flowbreccia (microbreccia?). Strong sericite/carbonate/Fe-carbonate.							
		Minerlaized up to 2% fine-grain pyrite disseminated overall with up to 3% fine-grain disseminated to pyrite stringers locally volcanic overprinting.							
		(50.47m-50.6m)Lower contact graditional at 45 degree to core axis floiation defined.							
48.40	51.37	SR; CB							
		Séricitisation; Carbonatisation							
		Strong sericite/carbonate/Fe-carbonate.							
48.40	50.47	PY02							
		Pyrite 2%							
		Minerlaized up to 2% fine grain pyrite disseminated overall							
50.47	50.60	PY03							
		Pyrite 3%							
		Up to 3% fine grain disseminated to pyrite stringers locally V1 overprinting. (50.47m-50.6m).							
50.60	51.37	PY02							
		Pyrite 2%							
		Minealized up to 2% fine grain pyrite disseminated.							
48.40	51.37	FA45							
		Fracturé(e)45							
		<15-20% V1 angular to subangularfragments.45 degree foliation with <10% sericite/carbonate filled fractures, concordant, Sheared unit with cm size flowbreccia (microbreccia?).							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
51.37	**53.40**	TU2; AP **Tuf intermédiaire; Aphanitique** Intermediate tuff.Aphanitic, beige, with reddish sections, mm size lapilli with sparse quartz chards. (Possible altered V1).45 degree foliation. Sheared with <10% carbonate extensional veinlet. 51.7m cm size flow breccia carbonate cement, 52.5m-53.4m stronger shear zone with faint flow breccia cm size sections. Carbonate/sericite/ Fe-carbonate pervasive to semi pervasive, intense to strong bands. Mineralized up to 2% medium-grain to fine-grain disseminated pyrite overall with up to 3-4% medium-grain to fine-grain pyrite stringers to shear veinlets controlled. Lower contact is defined at 45 degree to core axis.	51.00	52.00		V472069	**2.2600**	Au-ICP21	VO20059813
			52.00	53.00		V472070	**1.5100**	Au-ICP21	VO20059813
51.37	53.40	CB; SR **Carbonatisation; Séricitisation** Carbonate/sericite/ Fe-carbonate pervasive to semi pervasive, intense to strong bands.							
51.37	53.40	PY03 **Pyrite 3%** Mineralized up to 2% medium grain to fine grain disseminated pyrite overall with up to 3-4% medium grain to fine grain pyrite stringers to shear veinlets controlled.							
51.37	52.50	CS 45 **Cisaillé(e) 45°** 45 degree to foliation. Sheared with <10% carbonate extensional veinlet. 51.7m cm size flowbreccia carbonate cement.							
52.50	53.40	CS 40 **Cisaillé(e) 40°** 52.5m-53.4m stronger shear zone with faint flowbreccia cm size sections.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
53.40	**53.94**	TU2; S; AP **Tuf intermédiaire 45°; Sédiments non divisé; Aphanitique** Intermediate tuff , Sediment(?). Beige, banded, sericite defined thin lamination (?) at 45 degree to core axis <20% fractured, mm size silicified filled fractures, sparse quartz clasts to shards.Foliated 45 degree to core axis Sheared elongated to boudinaged quartz/feldspar grains to fragments. (53.8m-53.94m)Sericite/carbonate/Fe alteratin. Mineralized up to 1% fine-grain quartz overprinting to disseminated overall with up to 4% coarse grain to medium-grain cubes quartz shards/crystals overprinting locally ((53.8m-53.94m)). Lower contact defined at 45 degree to core axis	53.00	54.00		V472071	**2.1000**	Au-ICP21	VO20059813
53.80	53.94	SR; CB **Séricitisation; Carbonatisation** Sericite/carbonate/Fe alteration.							
53.40	53.80	PY01 **Pyrite 1%** Mineralized up to 1% fine grain quartz overprinting to disseminated overall.							
53.80	53.94	PY04 **Pyrite 4%** Up to 4% coarse grain to medium grain cubes quartz shards/crystals overprinting locally.							
53.40	53.80	FA20 45 **Fracturé(e)20 45°** <20% fractured, mm size silicified filled fractures, sparse quartz clasts to shards.Foliated 45 degree tca.							
53.80	53.94	CS 45 **Cisaillé(e) 45°** Sheared elongated to boudinaged quartz/feldspar grains to fragments.							

54.00	55.00		V472072	**0.5830**	Au-ICP21	VO20059813
55.00	56.00		V472074	**0.6750**	Au-ICP21	VO20059813

53.94 **55.90** V1

Volcanique felsique non divisé 30°

Intermediate volcanic.reddish, purpleish, aphanitic to fine grain, abundant quartz crystal angular to homogenous, sericite flakes, carbonate cement.

Foliated at 60 degree to core axis sheared with <5% carbonate extensional veinlet, sericite/fuchsite filled fractures, concordant.

One internediate tuff at 55.6m-55.8m.Sericite/carbonate/ k-feldspar alteion.

Mineralized up to 1% very-fine grain disseminated pyrite with up to 3% very-fine grain to fine-grain disseminated pyrite around shear veinlets(55m-55.3m, 55.8-55.9m).

Lower contact defined at approx 30 degree to core axis.

55.60 55.80 TU2

Tuf intermédiaire

One internediate tuff at 55.6m-55.8m.

55.60 55.90 SR; CB; FK

Séricitisation; Carbonatisation; Altération en feldspath potassique

Sericite/carbonate.<<k-feldspar alteration.

53.94 55.00 PY01

Pyrite 1%

Mineralized up to 1% very fine grain disseminated Py.

55.00 55.30 PY03

Pyrite 3%

Up to 3% very fine grain to fine grain disseminated pyrite around shear veinlets (55m-55.3m, 55.8-55.9m).

55.30 55.80 PY01

Pyrite 1%

Up to 1% very fine grain to fine grain disseminated pyrite around shear veinlets(55m-55.3m, 55.8-55.9m).

55.80 55.90 PY03

Pyrite 3%

Up to 3% very fine grain to fine grain disseminated pyrite around shear veinlets.

53.94 55.90 CS60

Cisaillé(e)60

Foliated at 60 degree tca, sheared with <5% carbonate extensional veinlet, sericite/fuchsite filled fractures, concordant.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
55.90	**56.50**	TU **Tuf non divisé** Tuff, (Crystal? tuff, V1?)reddish aphanitic, abundand quartz crystal homogenous to angular shards, sericite flakes, carbonate cement. Silicification.Mineralization up to 1% fine-grain to very-fine grain pyrite disseminated.	56.00	57.00		V472075	**1.1000**	Au-ICP21	VO20059813
55.90	56.50	SR; CB; SI **Séricitisation; Carbonatisation; Silicification** Sericite flakes, carbonate cement. Silicification.							
55.90	56.50	PY01 **Pyrite 1%** Mineralization up to 1% fine grain to very fine grain pyrite disseminated.							
55.90	56.50	CS 40 **Cisaillé(e) 40°** Foliated at 45 degree to core axis sheared at 40 degree tca, strong crystal stretching elongation to boudinaged quartz shards to V1? fragments. <10% carbonate extensional veinlets, strong sericite/fuchsite stringers to fract filling.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
56.50	**57.60**	TU2; AP **Tuf intermédiaire; Aphanitique** Intermediate tuff.(Sediment, premature banding/lamination?) foliated at 45 degree to core axis sheared at 40 degree to core axis strong crystal stretching elongation to boudinaged quartz shards to V1? fragments. <10% carbonate extensional veinlets, strong sericite/fuchsite stringers to fracture filling, strong sericite/carbonate/claysh. Mineralized up to 1% medium-grain to fine-grain pyrite disseminated overall with up to 3-4% medium-grain to fine-grain pyrite stringers where shear veinlets (56.95m-57.03m, 57.5m-57.6m). Lower contact is one 4cm quartz/carbonate vein defined at 55 degree to core axis with up to 3-4% medium-grain to fine-grain pyrite blebs.	57.00	58.00		V472076	**0.6700**	Au-ICP21	VO20059813

57.50	57.60	CB; SR **Carbonatisation; Séricitisation** Strong sericite/carbonate/claysh.
56.50	56.95	PY01 **Pyrite 1%** Mineralized up to 1% medium grain to fine grain pyrite disseminated overall.
56.95	57.03	PY04 **Pyrite 4%** Up to 3-4% medium grain to fine grain pyrite stringers where shear veinlets(56.95m-57.03m, 57.5m-57.6m).
57.03	57.50	PY01 **Pyrite 1%** Up to 1% medium grain to fine grain pyrite stringers overall.
57.50	57.60	PY04 **Pyrite 4%** Up to 4% medium grain to fine grain pyrite stringers where shear veinlets (56.95m-57.03m, 57.5m-57.6m).

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
57.60	**58.80**	V1 **Volcanique felsique non divisé** Intermediate volcanic.reddish, aphanitic to fine grain, angular to homogenous quartz crystal, sericite flakes, sheared with <10% calcite filled fracture at 50 degree to core axis cross cutting. Foliated at 50 degree to core axis carbonate/<sericite/Fe carbonate. Mineralized up to 0.5% fine-grain to very-fine grain pyritdisseminated. Lower contact is graditional.	58.00	59.00		V472077	**0.5130**	Au-ICP21	VO20059813

57.60	58.80	CB; SR **Carbonatisation; Séricitisation** Carbonate/<sericite/Fe carbonate.
57.60	58.80	PY00.5 **Pyrite 0.5%** Mineralized up to 0.5% fine grain to very fine grain pyrite disseminated.

57.60	58.80	FA10	50
		Fracturé(e)10 50°	
		Sheared with <10% calcite filled fracture at 50 degree to core axis cross cutting.Foliated at 50 degree.	

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
58.80	**59.30**	TU							
		Tuf non divisé 45°							
		Tuff, (crystal tuff?) abundand quartz angular shards (<85%) carbonate cement sericite flakes.<5% carbonate extensional veinlets, carbonate/<<sericite/silicification. Fe carbonate towards lower contact.Mineralized up to 1% fine-grain to very-fine grain pyrite disseminated. Lower contact is sharp at 45 degree to core axis.							
58.80	59.30	CB; SR; SI							
		Carbonatisation; Séricitisation; Silicification							
		Carbonate/<<sericite/silicification. Fe carbonate towrds lower contact .							
58.80	59.30	PY01							
		Pyrite 1%							
		Mineralized up to 1% fine grain to very fine grain pyrite disseminated.							
58.80	59.30	CS05							
		Cisaillé(e)5							
		<5% carbonate extensional veinlets.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
59.30	**62.40**	TU2; AP	59.00	60.00		V472078	**1.3700**	Au-ICP21	VO20059813
		Tuf intermédiaire; Aphanitique	60.00	61.00		V472079	**0.4750**	Au-ICP21	VO20059813
		Intermediate tuff, (Sediment, premature banding/lamination?). Foliated at 45 degree to core axis strong crystal stretching elongation to boudinaged quartz shards.One 15 cm shear quartz vein at 59.7m-59.88m at approx 75 degree to core axis (Lower contact). Mineralized up to 3% medium-grain to fine-grain blebs Lower contact only (microbreccia). One 21cm shear quartz/carbonate vein at 75 degree to core axis with up to 1% medium-grain to fine-grain pyrite blebs to stringers (Lower contact).Sericite/silicification<<carbonate, Mineralized at trace to 0.5% pyrite overall.	61.00	62.00		V472080	0.0710	Au-ICP21	VO20059813

59.30	62.40	SR; SI; CB **Séricitisation; Silicification; Carbonatisation** Sericite/silicification<<carbonate.	
59.30	62.40	PY00.5 **Pyrite 0.5%** Mineralized at trace to 0.5% pyrite overall.	
59.30	62.40	CS **Cisaillé(e) 45°** Foliated at 45 degree tca, strong crystal stretching elongation to boudinaged quartz shards.	45

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
62.40	**63.34**	TU2; AP **Tuf intermédiaire 45°; Aphanitique** Mineralized Zone. Silicous intermediate tuff. Greyish to beige, aphanitic,angular quartz shards, deformed at 45 degree to core axis sheared with intense mineral stretching, quartz boudins throughout, microbrecciated (?) to flow breccia silica flooding increasing. Silica/sericite/cabonate faint orangeish Fe carbonate.Mineralized up to 10% fine-grain to very-fine grain disseminated pyrite overall.Lower contact is shar at 45 degree tca.	62.00	63.00		V472081	**3.0900**	Au-ICP21	VO20059813

62.40	63.34	SI; SR; CB **Silicification; Séricitisation; Carbonatisation** Silica/sericite/cabonate faint orangeish Fe carbonate.	
62.40	63.34	PY10 **Pyrite 10%** Mineralized up to 10% fine grain to very fine grain disseminated pyrite overall. Lower contact is sharp at 45 degree tca	
62.40	63.34	CS **Cisaillé(e) 45°** Deformed at 45 degree to core axis sheared with intense mineral stretching, quartz boudins throughout, microbrecciated? to flow breccia silica flooding increasing.	45

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
63.34	**64.28**	TU; AP **Tuf non divisé; Aphanitique** Crystal Tuff, (V1?, quartz Porphyry?)) reddish aphanitic, abundand quartz crystal homogenous to angular shards(80%), sericite flakes, carbonate cement. Strong silicification to flooding silicification/carbonate/Fe-carbonate/sericite.Mineralization up to 5-6% fine-grain to very-fine grain pyrite disseminated. Lower contact sharp at 50 degree tca.	63.00	64.00		V472082	**1.0650**	Au-ICP21	VO20059813
63.34	64.28	SI; CB; SR **Silicification; Carbonatisation; Séricitisation** Strong silicification to flooding silicification/carbonate/f-carbonate/sericite.							
63.34	64.28	PY06 **Pyrite 6%** Mineralization up to 5-6% fine grain to very fine grain pyrite disseminated.							
63.34	64.28	FA **Fracturé(e)** Sparse fracturing.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
64.28	**67.30**	TU2; AP **Tuf intermédiaire; Aphanitique** Intermediate tuff. Beige to yellowish, aphanitic, deformed foliated at 45-50degree to core axis crystal elongation at 50 degree to core axis abundant quartz shards elongated to boudinaged.Fracturing is moderate with silica filled hairline fractures high angle to core axis to quartz /carbonate filled mm size sericite/silicification/Fe-carbonate weak fuchsite thin bands. Mineralized up to 1% fine-grain pyrite quartz fragments verprinting. Lower conatct.	64.00 65.00 66.00	65.00 66.00 67.00		V472083 V472084 V472085	**0.5770** **0.3100** **1.6400**	Au-ICP21 Au-ICP21 Au-ICP21	VO20059813 VO20059813 VO20059813
64.28	67.33	SR; SI; CB; FC **Séricitisation; Silicification; Carbonatisation; Fuschitisation** Sericite/silicification/Fe-carbonate weak fuchsite thin bands.							

64.28	67.33	PY01	
		Pyrite 1%	
		Mineralized up to 1% fine grain pyrite quartz fragments overprinting.	
64.28	67.33	CS	50
		Cisaillé(e) 50°	
		Deformed foliated at 45-50 degree to core axis crystal elongation at 50 degree tca, abundant quartz shards elongated to boudinaged.	

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
67.30	**69.60**	V1; AP	67.00	68.00		V472086	**1.6050**	Au-ICP21	VO20059813
		Volcanique felsique non divisé 45°; Aphanitique	68.00	69.00		V472087	**0.9770**	Au-ICP21	VO20059813
		Intermediate volcanic with <40% crystl Tuff?reddish, to green, aphanitic to fine grain, angular to homogenous quartz crystal, sericite flakes, sheared with <2-3% calcite filled fractures.Tuff subunits at 67.38m-67.92m flowbreccia to microbreccia carbonate cement, 68.25m-68.23m abundand qtz shards angular to subround(<70%). Silicification/sericite/carbonate , Fe-carbonate present patchy.	69.00	70.00		V472089	**1.4900**	Au-ICP21	VO20059813
		Mineralization trace to 1% fine-grain pyrite disseminate							
		Lower contact sharp at 45 degree tca.							
67.38	67.92	TU2							
		Tuf intermédiaire							
		Tuff subunits at 67.38m-67.92m flowbreccia to microbreccia carbonate cement, 68.25m-68.23m abundand qtz shards angular to subround(<70%).							
67.38	69.60	SI; SR; CB							
		Silicification; Séricitisation; Carbonatisation							
		Silicification/sericite/carbonate , Fe-carbonate present patchy.							
67.38	69.60	PY01							
		Pyrite 1%							
		Mineralization trace to 1% fine grain pyrite disseminated.							
67.38	69.60	FA03							
		Fracturé(e)3							
		Sheared with < 2-3% calcite filled fractures.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description
69.60	**73.00**	TU2; AP **Tuf intermédiaire; Aphanitique** Intermediate tuff.Lapilli, patchy magnetic, beige to brownish, aphanitic, deformed foliated at 50 degree to core axis crystal elongation at 50 degree to core axis angular V1? fragments to stretched, sheared, abundant quartz shards elongated to boudinaged.<5% calcite filled veinlet to fracture filling, Sericite/carbonate/Fe/ <<silicification .Mineralized 1% fine-grain disseminated overall with up to 5% medium-grain to fine-grain disseminated to blebby where volcanic clasts overprinting (72.2m-73m). Lower contact is defined at 70 degree tca.
69.60	73.00	SR; CB; SI **Séricitisation; Carbonatisation; Silicification** Sericite/carbonate/Fe/ <<silicfication.
69.60	72.20	PY01 **Pyrite 1%** Mineralized 1% fine grain disseminated overall.
72.20	73.00	PY05 **Pyrite 5%** Up to 5% medium grain to fine grain disseminated to bleby where V1 clasts overprinting (72.2m-73m).
69.60	73.00	CS50 **Cisaillé(e)50** Deformed foliated at 50 degree to core axis crystal elongation at 50 degree tca, angular V1? fragments to stretched, sheared, abundant quartz shards elongated to boudinaged.<5% calcite filled veinlet to fracture filling.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
70.00	71.00		V472090	**0.3430**	Au-ICP21	VO20059813
71.00	72.00		V472091	**0.2680**	Au-ICP21	VO20059813
72.00	73.00		V472092	**0.1980**	Au-ICP21	VO20059813

From	To	Description
73.00	**73.60**	I4Q; MA **Carbonatite 70°; Roche massive** Carbonatite.Grey fine, massive, phosporous, high REE's values. 1-2% carbonate (anhydrite) veining.Trace pyrite.
73.00	73.60	CC; CB **Calcitisation; Carbonatisation** Carbonatisation.
73.00	73.60	PY00.1

From	To	Len	SampleID	Au (ppm)	Method	Certificate
73.00	74.00		V472093	0.0430	Au-ICP21	VO20059813

Pyrite 0.1%

py.

From	To	Description
73.60	**94.60**	TU2; AP **Tuf intermédiaire 50°; Aphanitique** Intermediate tuff. Patchy magnetic, beigeish to lighter beigeish. Aphanitic, sparse lapilli, V1? fragments to thin <1cm injections. Deformed to 45 degree to core axis foliation planes, elongated mm size quartz/feldspar boudins. Fenitized bands or envelope where volcanic injcections. Strong to intense pervasive sericite to intense sericite/fuchsite alternating to fracture filling and/or webs. One carbonatite subunit at 75.5m-75.6m at 40 degree degree cross cuting 10 cm quartz /carbonate shear vein, one carbonatite subunit at 78.15m-78.23m at 25 degree to core axis. Trace pyrite. One carbonatite subunit at 86.7m-86.9m at 50 degree to core axis trace Py, one carbonatite subunit at 88.3m-88.5m at 50 degree to core axis. Mineralized up to 5% medium-grain to fine-grain disseminated pyrite. One carbonatite subunit at 91.6m-91.7m at 50 degree to core axis. Quartz vein crosscut, mineralized trace to 0.5% fine-grain pyrite.Carbonate/to lesser pyrite alteration. Hematite /k-feldspar alteration around felsic injections, otherwise weak to moderate silicification. Mineralization up to 1% medium-grain to fine-grain pyrite disseminated overall with up to 5% pyrite stringers/blebby volcanics fragments/injections overprinting. (73.6m-73.9m, magnetite overprinting, 75.55m-75.6m wall rock minerlaization to carbonatite, 76.4m-76.6m magnetite overprinitng, 77.68m-78.3m wall rock mineralization to carbonatite, /magetite overprinting. Lower contact is at 50 degree to core axis strong chloritization tuff subunit mineralized up to 8% medium-grain to fine-grain pyrite.
75.50	75.60	I4Q; MA **Carbonatite 40°; Roche massive** One carbonatite subunit at 75.5m-75.6m at 40 deg degree cross cutting 10 cm qtz/carbonate shear vein.
78.15	78.23	I4Q; MA **Carbonatite 25°; Roche massive** One carbonatite subunit at 78.15m-78.23m at 25 deg tca. Trace Py.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
74.00	75.00		V472094	0.0040	Au-ICP21	VO20059813
75.00	76.00		V472095	0.0520	Au-ICP21	VO20059813
76.00	77.00		V472096	**0.3100**	Au-ICP21	VO20059813
77.00	78.00		V472097	0.0290	Au-ICP21	VO20059813
78.00	79.00		V472098	**0.1140**	Au-ICP21	VO20059813
79.00	80.00		V472099	0.0070	Au-ICP21	VO20059813
80.00	81.00		V472100	0.0030	Au-ICP21	VO20059813
81.00	82.00		V472101	0.0020	Au-ICP21	VO20059813
82.00	83.00		V472102	0.0020	Au-ICP21	VO20059813
83.00	84.00		V472103	0.0005	Au-ICP21	VO20059813
84.00	85.00		V472105	0.0030	Au-ICP21	VO20059813
85.00	86.00		V472106	0.0040	Au-ICP21	VO20059813
86.00	87.00		V472107	0.0050	Au-ICP21	VO20059813
87.00	88.00		V472108	0.0060	Au-ICP21	VO20059813
88.00	89.00		V472109	0.0040	Au-ICP21	VO20059813
89.00	90.00		V472110	0.0020	Au-ICP21	VO20059813
90.00	91.00		V472111	0.0020	Au-ICP21	VO20059813
91.00	92.00		V472112	0.0020	Au-ICP21	VO20059813
92.00	93.00		V472113	0.0090	Au-ICP21	VO20059813
93.00	94.00		V472114	0.0110	Au-ICP21	VO20059813
94.00	95.00		V472115	**1.7500**	Au-ICP21	VO20059813

86.70	86.90	I4Q; MA **Carbonatite 50°; Roche massive** One carbonatite subunit at 86.7m-86.9m at 50 deg tca trace Py.
88.30	88.50	I4Q; MA **Carbonatite 50°; Roche massive** One carbonatite subunit at 88.3m-88.5m at 50 deg tca. Mineralized up to 5% medium grain to fine grain disseminated Py.
91.60	91.70	I4Q; MA **Carbonatite 50°; Roche massive** Fe carbonatite subunit at 91.6m-91.7m at 50 deg tca. Qtz vein crosscut. Mineralized trace to 0.5% fine grain Py.
73.60	94.60	SR; CB; FK; HM **Séricitisation; Carbonatisation; Altération en feldspath potassique; Hémat** Fenitized bands or envelope where V1 injcections. Strong to intense pervasive sericite to intense sericite/fuchsite alternating to fracture filling and/or webs.
73.60	73.90	PY01 **Pyrite 1%** Mineralization up to 1% medium grain to fine grain pyrite disseminated overall.
73.90	75.55	PY01 **Pyrite 1%** Disseminated Py.
75.55	75.60	PY05 **Pyrite 5%** Up to 5% pyrite stringers/blebby volcanic fragments/injections overprinting.
75.60	76.40	PY01 **Pyrite 1%** Disseminated py.
76.40	76.60	PY05; medium grain **Pyrite 5%; Magnétite** Disseminated to fracture filling Py/ magnetite overprinitng.
76.60	77.68	PY01 **Pyrite 1%** Disseminated pyrite.

77.68	78.30	PY05; medium grain	
		Pyrite 5%; Magnétite	
		77.68m-78.3m wall rock mineralization to carbonatite,/magetite.	
78.30	94.55	PY01	
		Pyrite 1%	
		Disseminated Py.	
94.55	94.60	PY08	
		Pyrite 8%	
		Contact minerelized pyrite disseminated.	
73.60	94.60	FA	45
		Fracturé(e) 45°	
		Deformed to 45 degree to core axis foliation planes, elongated mm size quartz/feldspar boudins.	

From	To	Description
94.60	**98.50**	V1; AP; PO
		Volcanique felsique non divisé 30°; Aphanitique; Porphyrique
		Dacite. reddish to purpleish, aphanitc to porphyritic, to quartz/plagioclase /feldsp , phenos, homogenous, medium to fine size, euhedral to fine, 20% quartz /carbonate extensional veining , 10% calcite filled fractures low angle 30-40 to core axis.One flat lying extensional quartz/carbonate vein at 93.25m-93.5m. Mineralized up to 1% very-fine grain pyrite. One 60cm flat lying quartz/carbonate/sericite vein at 97m. Mineralized up to 1% very-fine grain Py. Silicification/sericite/carbonate/potass.Mineralization up to 4-5% very-fine grain to fine-grain % fine-grain pyrite disseminated.Lower contac is defined at 25-30 degree tca.
94.60	98.50	SI; SR; CB; FK
		Silicification; Séricitisation; Carbonatisation; Altération en feldspath potas
		silicification/sericite/carbonate/potass.
94.60	98.50	PY05
		Pyrite 5%
		Mineralization up to 4-5% very fine grain to fine grain % fine grain pyrite disseminated.
94.60	98.50	FA10 40
		Fracturé(e)10 40°
		10% calcite filled fractures low angle 30-40 to core axis

From	To	Len	SampleID	Au (ppm)	Method	Certificate
95.00	96.00		V472116	0.0240	Au-ICP21	VO20059813
96.00	97.00		V472117	0.0060	Au-ICP21	VO20059813
97.00	98.00		V472118	0.0030	Au-ICP21	VO20059813
98.00	99.00		V472119	0.0060	Au-ICP21	VO20059813

From	To	Description
98.50	**99.97**	TU2; AP **Tuf intermédiaire 45°; Aphanitique** Intermediate tuff. Beige, aphanitic,angular quartz shards, deformed at 45 degree to core axis sheared with intense mineral stretching, quartz boudins throughout, microbrecciatedn(?).Silica/sericite/cabonate faint orangeish Fe carbonat. Mineralized up to 0.5% fine-grain to very-fine grain disseminated pyrite overall.Lower contact is sheared at 45 degree tca.
98.50	99.97	SI; SR; CB **Silicification; Séricitisation; Carbonatisation** Silica/sericite/cabonate faint orangeish Fe carbonate.
98.50	99.97	PY00.5 **Pyrite 0.5%** Mineralized up to 0.5% fine grain to very fine grain disseminated pyrite overall.
98.50	99.97	CS 45 **Cisaillé(e) 45°** Deformed at 45 degree to core axis sheared with intense mineral stretching, quartz boudins throughout, microbrecciated?

From	To	Len	SampleID	Au (ppm)	Method	Certificate
99.00	100.00		V472120	0.0040	Au-ICP21	VO20059813

From	To	Description
99.97	**109.67**	V1; AP; GF **Volcanique felsique non divisé; Aphanitique; Grains fins** Dacite.reddish to purpleish, aphanitc to porphyritic, to quartz/plagioclase /feldsp , phenos, homogenous, medium to fine size, euhedral to fine, 20% quartz /carbonate extensional veining , 10% calcite filled fractures low angle 30-40 to core axis. Foliated at 50 degree to core axis. 2-3% calcite filled fractures at 40-50 degree to core axis.One quartz carbonate flat lying vein at 107.9m-108.5m.One carbonatite unit at 109.52m-109.58m at 70 degree to core axis mineralized at 3-4% medium-grain pyrite disseminated.Silicification/sericite/carbonate/potassic alteratn. Mineralization trace up to 8% very-fine grain to fine-grain pyrite disseminated .Lower conatc is defined at 25-30 degree tca.
107.90	108.50	I4Q; MA

From	To	Len	SampleID	Au (ppm)	Method	Certificate
100.00	101.00		V472122	0.0060	Au-ICP21	VO20059813
101.00	102.00		V472123	0.0050	Au-ICP21	VO20059813
102.00	103.00		V472124	0.0040	Au-ICP21	VO20059813
103.00	104.00		V472125	0.0050	Au-ICP21	VO20059813
104.00	105.00		V472126	0.0040	Au-ICP21	VO20059813
105.00	106.00		V472127	0.0040	Au-ICP21	VO20059813
106.00	107.00		V472128	0.0040	Au-ICP21	VO20059813
107.00	108.00		V472129	0.0040	Au-ICP21	VO20059813
108.00	109.00		V472130	0.0100	Au-ICP21	VO20059813
109.00	110.00		V472131	0.0110	Au-ICP21	VO20059818

Carbonatite; Roche massive

One quartz carbonate flat lying vein at 107.9m-108.5m.

109.52 109.58 I4Q; MA

Carbonatite 70°; Roche massive

One carbonatite unit at 109.52m-109.58m at 70 deg tca. Mineralized at 3-4% mg Py disseminated.

99.97 109.67 SI; SR; CB; FK

Silicification; Séricitisation; Carbonatisation; Altération en feldspath potas

Silicification/sericite/carbonate/potass.

99.97 109.67 FA10 40

Fracturé(e)10 40°

20% quartz /carb extensional veining , 10% calcite filled fractures low angle 30-40 to core axis. Foliated at 50 degree to core axis. 2-3% calcite filled fractures at 40-50 degree to core axis.

From	To	Description
109.67	**166.70**	TU2; CS **Tuf intermédiaire; Cisaillé** Intermediate tuff. Beige, aphanitic, angular quartz shards, 45 degree to core axis shear foliation, with intense mineral stretching, quartz boudinssericite/cabonate/Fe carbonat. 110.1m-110.36m 70% carbonatite sub-unit at 60 degree to core axis with quartz /carbonate veining crosscut, 111.7m-111.8m <10% dark blue calcite/fluorite veinlets at 70 degree to core axis. 112.2m-112.3m one 9cm quartz /carbonate veining at 65 degree to core axis.Mineralized up to 0.5% fine-grain to very-fine grain disseminated pyrite overall. From 114 m:Intermediate to felsic tuff (ash-crystal flow, lapilli?). Some sections resemble felsic volcanic rocks.Light beige to yellowish beige, in the upper parts pinkish beige, siliceous, hard to scratch. There are frequent slightly darker, olive-grey sericite-rich bands, stripes and lenses, a few mm to 5-6 cm wide, which could be flattened lapillis or just compositional heterogeneity. The matrix is fine-grained, in parts aphanitic with small, colorless, angular to subangular grains (feldspar "eyes", maybe also Qtz). Some parts are slightly coarser and contain white Fsp subround grains. There are occasional bright green grains and stretched spots (fuchsite-altered), possibly relicts of accessory ferromagnesian minerals.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
110.00	111.00		V472132	0.0260	Au-ICP21	VO20059818
111.00	112.00		V472133	0.0340	Au-ICP21	VO20059818
112.00	113.00		V472134	0.0710	Au-ICP21	VO20059818
113.00	114.00		V472135	0.0020	Au-ICP21	VO20059818
114.00	115.00		V472137	0.0020	Au-ICP21	VO20059818
115.00	116.00		V472138	0.0050	Au-ICP21	VO20059818
116.00	117.00		V472139	0.0020	Au-ICP21	VO20059818
117.00	118.00		V472140	0.0020	Au-ICP21	VO20059818
118.00	119.00		V472141	0.0020	Au-ICP21	VO20059818
119.00	120.00		V472142	0.0020	Au-ICP21	VO20059818
120.00	121.00		V472143	0.0020	Au-ICP21	VO20059818
121.00	122.00		V472144	0.0010	Au-ICP21	VO20059818
122.00	123.00		V472145	0.0030	Au-ICP21	VO20059818
123.00	124.00		V472146	0.0020	Au-ICP21	VO20059818
124.00	125.00		V472147	0.0020	Au-ICP21	VO20059818
125.00	126.00		V472148	0.0020	Au-ICP21	VO20059818
126.00	127.00		V472149	0.0010	Au-ICP21	VO20059818
127.00	128.00		V472150	0.0010	Au-ICP21	VO20059818
128.00	129.00		V472151	0.0010	Au-ICP21	VO20059818
129.00	130.00		V472153	0.0020	Au-ICP21	VO20059818

Magnetism: non-magnetic.Structure: sheared with weakly to well-developed foliation at 40-55CA defined by yellowish fibrous sericite. Occasional Qz-Carb-(Fsp) veinlets, generally parallel or subparallel to the foliation. Some veins are oriented at an angle to the foliation and are transected by fractures with fibrous sericite (those could be pre- or syn-tectonic veins).Mineralization: Rare traces of disseminated small pyrite cubic grains, traces to 0.5% in some veins. Slightly higher pyrite (0,5-1%) at 148-156 m in foliation planes and in Qz-Carb-Fsp veinlets, fractures with greyish silica, pods.146.45 m – 2.5 cm wide sheared band with 1-3% pyrite at the lower contact of a carbonatite(?) vein/dyke.147.05-147.8 m – grey-beige carbonate-rich interval with elevated REEs, possibly carbonatite-injected tuff.

151.1-151.3 m – patchy silicified and carbonatized interval with 1-3% pyrite fine-grained aggregates in fractures (elevated REEs, Zn, Cu, Ni and Zr).160.3-166.7 m - pale yellow-beige interval with tiny, colorless feldspar "eyes", seicitized, weakly carbonatized. Could be sheared dacite.XRF: SiO2=42%, Al=5.6%, Ca=2-4%, Fe=2.5-2.8%, K=1.3-2.0%, no medium-grain , no Mn; 120-160 ppm Ce.

The lower contact is distinct, at 50CA, parallel to the foliation.

110.10 110.36 I4Q; MA

Carbonatite 60°; Roche massive

110.1m-110.36m 70% carbonatite subunit at 60 deg tca with qtz/carb veining crosscut.

146.30 146.45 I4Q

Carbonatite 47°

Carbonatite vein/dyke(?) with sharp contacts parallel to the foliation of the host rock. The matrix is fine-grained with small, colorless micro-phenocrysts (probably apatite). XRF shows elevated REEs, PO4, Th, Zr, Pb.The interval is crosscut by irregular, coarse-grained, Qz-Carb tension veinlets, a few mm to 2 cm in width and oriented almost along the core axis (0-5CA). The majority of veinlets look truncated by the contacts, yet there are some mm offshoots outside the contacts which are crosscut and sometimes offset by sericite shear fibres.0.5-2% very fine Py disseminated in the matrix of the interval. The lower contact is bordered by a 2.5 cm wide, green-grey shear band mineralized by 1-3% fine Py.

130.00	131.00	V472154	0.0020	Au-ICP21	VO20059818
131.00	132.00	V472155	0.0010	Au-ICP21	VO20059818
132.00	133.00	V472156	0.0010	Au-ICP21	VO20059818
133.00	134.00	V472157	0.0020	Au-ICP21	VO20059818
134.00	135.00	V472158	0.0020	Au-ICP21	VO20059818
135.00	136.00	V472159	0.0020	Au-ICP21	VO20059818
136.00	137.00	V472160	0.0020	Au-ICP21	VO20059818
137.00	138.00	V472161	0.0020	Au-ICP21	VO20059818
138.00	139.00	V472162	0.0040	Au-ICP21	VO20059818
139.00	140.00	V472163	0.0160	Au-ICP21	VO20059818
140.00	141.00	V472164	0.0020	Au-ICP21	VO20059818
141.00	142.00	V472165	0.0010	Au-ICP21	VO20059818
142.00	143.00	V472166	0.0020	Au-ICP21	VO20059818
143.00	144.00	V472167	0.0020	Au-ICP21	VO20059818
144.00	145.00	V472168	0.0020	Au-ICP21	VO20059818
145.00	146.00	V472170	0.0020	Au-ICP21	VO20059818
146.00	147.00	V472171	0.0030	Au-ICP21	VO20059818
147.00	148.00	V472172	0.0120	Au-ICP21	VO20059818
148.00	149.00	V472173	0.0050	Au-ICP21	VO20059818
149.00	150.00	V472174	0.0080	Au-ICP21	VO20059818
150.00	151.00	V472175	0.0170	Au-ICP21	VO20059818
151.00	152.00	V472176	0.0430	Au-ICP21	VO20059818
152.00	153.00	V472177	**0.1040**	Au-ICP21	VO20059818
153.00	154.00	V472178	0.0270	Au-ICP21	VO20059818
154.00	155.00	V472179	0.0060	Au-ICP21	VO20059818
155.00	156.00	V472180	0.0070	Au-ICP21	VO20059818
156.00	157.00	V472181	0.0005	Au-ICP21	VO20059818
157.00	158.00	V472182	0.0010	Au-ICP21	VO20059818
158.00	159.00	V472183	0.0020	Au-ICP21	VO20059818
159.00	160.00	V472185	0.0020	Au-ICP21	VO20059818
160.00	161.00	V472186	0.0010	Au-ICP21	VO20059818
161.00	162.00	V472187	0.0005	Au-ICP21	VO20059818
162.00	163.00	V472188	0.0005	Au-ICP21	VO20059818
163.00	164.00	V472189	0.0005	Au-ICP21	VO20059818
164.00	165.00	V472190	0.0005	Au-ICP21	VO20059818
165.00	166.00	V472191	0.0005	Au-ICP21	VO20059818
166.00	167.00	V472192	0.0005	Au-ICP21	VO20059818

From	To	Description
166.70	**176.90**	V1; TU; CS **Volcanique felsique non divisé 50°; Tuf non divisé; Cisaillé** Sheared dacite or possibly dacitic tuff.The rock is pale beige to yellowish beige with slightly darker, olive-grey sericitized bands, stripes. The matrix is fine-grained to aphanitic with tiny white or colorless feldspar grains and occasional subround quartz "eyes" (phenocrysts); rare fuchsite-altered grains. Moderate semi-pervasive sericitization, weak carbonatization. Non-magnetic. Structure: weakly to moderately sheared with foliation developed at 40-50CA (defined by sericite).Mineralization: rare traces of fine pyrite in the matrix and in rare Qz-Carb-Fsp veinlets.166.7-167.4 m and 168.30-168.90 m - pale grey, strongly siliceous intervals with rather distinct contacts at 45-50CA (parallel to the foliation) - possibly felsic volcanics (rhyolitic).174.3-175.0 m - several intercalated bands, a few mm to 1 dm wide, fine to medium-granular, dark grey, with minor fine leucoxene. Sediments?
166.70	167.40	V1 **Volcanique felsique non divisé 50°** Greyish, very siliceous, carbonatized, sheared interval, very fine-grained, with minor yellowish sericite, traces Py. Distinct contacts at 45-50CA. Probably felsic volcanics.XRF: SiO2=49-54%, Al2O3=9, K= 2.3%, Fe=1.6%, Ca=1.0%; Ce=290, La=140, Ni=200.
168.30	168.90	V1 **Volcanique felsique non divisé 50°** Greyish, very siliceous, carbonatized, sheared interval, very fine-grained, probably felsic volcanics. Distinct contacts at 50CA. Traces Py.XRF: SiO2=48%, Al2O3=14, K= 3.2%, Fe=2.8%, Ca=0.4%, traces Ce, La, Ni.
174.30	175.00	S **Sédiments non divisé** Several intercalated bands, a few mm to 1 dm wide, fine to med-granular, dark grey, with minor fine leucoxene. Sediments(?) Non-mineralized.
166.70	168.90	SR **Séricitisation** Weak patchy sericitization.
168.90	176.90	SR; CB **Séricitisation; Carbonatisation** Weak to moderate patchy sericitization, weak carbonatization.
168.90	176.90	CS 47 **Cisaillé(e) 47°**

From	To	Len	SampleID	Au (ppm)	Method	Certificate
167.00	168.00		V472193	0.0005	Au-ICP21	VO20059818
168.00	169.00		V472194	0.0005	Au-ICP21	VO20059818
169.00	170.00		V472195	0.0005	Au-ICP21	VO20059818
170.00	171.00		V472196	0.0005	Au-ICP21	VO20059818
171.00	172.00		V472197	0.0005	Au-ICP21	VO20059818
172.00	173.00		V472198	0.0005	Au-ICP21	VO20059818
173.00	174.00		V472199	0.0005	Au-ICP21	VO20059818
174.00	175.00		V472201	0.0005	Au-ICP21	VO20059818
175.00	176.00		V472202	0.0005	Au-ICP21	VO20059818
176.00	177.00		V472203	0.0005	Au-ICP21	VO20059818

Cisaille(e) 45

Weakly to moderately sheared rock with foliation at 45-50CA.

From	To	Description
176.90	**196.00**	TU2; CS **Tuf intermédiaire; Cisaillé** Sheared intermediate to felsic tuff (could be sheared dacite?). Pale beige, grey-beige with yellowish to olive-grey sericitized bands which give the rock a mottled/striped appearance. There are also sericitized, yellow-beige, oblong fragments (breccia? lapillis?), stretched along the foliation, a few cm along the long axis, with distinct or fuzzy contours and sometimes porphyritic. Minor fuchsite-altered streaks in the matrix and grains in fragments. Occasional round quartz "eyes".Non-magnec. Structure: sheared, with moderately-to well-developed foliation at 45-50CA. 1-2% white Qz-Carb-Fsp veinlets, mm-cm wide, oriented parallel to the foliation and also at crosscutting angles. Mineralization trace pyrite. 193.5-193.6 m – greyish, silicified and carbonatized interval with 1-2% pyrite very fine grains and aggregates.Gradational contacts.
176.90	196.00	SR; CB **Séricitisation; Carbonatisation** Moderate to strong semi-pervasive sericitization, carbonatization. Rare fuchsite-altered streaks, grains.
176.90	193.50	PYtr **Pyrite tr** Rare traces pyrite in some veinlets.
193.50	193.60	PY01 **Pyrite 1%** 1-2% pyrite very fine grains and aggregates in a silicified zone, disseminated and in fractures.
193.60	195.00	PYtr **Pyrite tr** Traces Py.
176.90	196.00	CS 50 **Cisaillé(e) 50°** Sheared rock with moderately-developed foliation at 45-55CA. Stretched fragments (breccia? lapillis?) along the foliation, generally 1:3 stretch ratio.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
177.00	178.00		V472204	0.0005	Au-ICP21	VO20059818
178.00	179.00		V472205	0.0005	Au-ICP21	VO20059818
179.00	180.00		V472206	0.0005	Au-ICP21	VO20059818
180.00	181.00		V472207	0.0005	Au-ICP21	VO20059818
181.00	182.00		V472209	0.0005	Au-ICP21	VO20059818
182.00	183.00		V472210	0.0005	Au-ICP21	VO20059818
183.00	184.00		V472211	0.0005	Au-ICP21	VO20059818
184.00	185.00		V472212	0.0005	Au-ICP21	VO20059818
185.00	186.00		V472213	0.0005	Au-ICP21	VO20059818
186.00	187.00		V472214	0.0005	Au-ICP21	VO20059818
187.00	188.00		V472215	0.0005	Au-ICP21	VO20059818
188.00	189.00		V472216	0.0005	Au-ICP21	VO20059818
189.00	190.00		V472217	0.0005	Au-ICP21	VO20059818
190.00	191.00		V472218	0.0005	Au-ICP21	VO20059818
191.00	192.00		V472219	0.0005	Au-ICP21	VO20059818
192.00	193.00		V472220	0.0010	Au-ICP21	VO20059818
193.00	194.00		V472221	0.0030	Au-ICP21	VO20059818
194.00	195.00		V472222	0.0030	Au-ICP21	VO20059818
195.00	196.00		V472223	0.0005	Au-ICP21	VO20059818

From	To	Description
196.00	229.15	V1; TU2; CS **Volcanique felsique non divisé; Tuf intermédiaire; Cisaillé** Sheared dacite or dacitic tuff (ash-crystal flow?), porphyritic. The rock is pale beige, yellowish beige, with fine to medium-grained matrix and frequently porphyritic. Semi-pervasive sericite and carbonate alteration. Porphyritic intervals contain abundant white to colorless Fsp/plagioclase grains enveloped by sericite. The Fsp grains are roundish, anhedral, less commonly subhedral and often micro-fractured and corroded. The matrix also contains small sericitized and carbonatized grains, possibly altered ferromagnesians. Rare green fuchsite streaks. Minor fractures with greyish silicified halos. Magnetism: non-magnetic.Structure: sheared, with moderately-developed foliation at 45-57CA. Occasional (<1%) Qz-Fsp-Carb tension veinlets oriented parallel to the foliation or crosscutting it. Mineralization: mostly traces Py; fine-grained pyrite aggregates in occasional fractures with greyish silica halos.The unit contains several Ca-carbonatite intervals (dykelets, injections) composed of fine-grained Carb-Alb-Fluor-Ap and often mineralized by fine pyrite.202.35-202.45 m – Ca-carbonatite veinlets with fluorite, trace-0.5% fine pyrite. XRF shows elevated REEs, PO4, Sr, Th.207.12-207.68 m – a purplish grey Carb-Fluorite-albite carbonatite dyke with elevated REEs, PO4; very fine pyrite.209.23-209.28 m - 3.5 cm Carb-Alb-Fluor dyklet, trace pyrite.213.45-213.65 m – a grey-beige carbonatite dyke, trace pyrite.217.6-224 m – several low-angle fractures (15-20CA) crosscutting the foliation.Strong foliation at the bottom of the unit at 57-60CA (228.8-229.1 m), strong sericitization and patchy greyish silicification (?). Greyish parts are mineralized by 1-2% fine Py, disseminated and in some silica microfractures. The lower contact is distinct by changes in texture, sheared at 55CA.
207.12	207.68	I4Q **Carbonatite 52°** A pale purplish grey Carb-Fluorite-Alb interval with elevated REEs, PO4, Sr, Ba, Th, Pb - carbonatite dyke.The contacts are quite distinct, at 50-52CA, crosscutting the sericite fabrics of the enclosing tuff. Fine-grained, massive, weakly to moderately foliated at 50-55CA. Carbonate reacts to HCl with bleaching and mild effervescence.Mineralized by traces to 1-2% very fine Py.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
196.00	197.00		V472224	0.0040	Au-ICP21	VO20059818
197.00	198.00		V472226	0.0010	Au-ICP21	VO20059818
198.00	199.00		V472227	0.0010	Au-ICP21	VO20059818
199.00	200.00		V472228	0.0005	Au-ICP21	VO20059818
200.00	201.00		V472229	0.0005	Au-ICP21	VO20059818
201.00	202.00		V472230	0.0010	Au-ICP21	VO20059818
202.00	203.00		V472231	0.0300	Au-ICP21	VO20059818
203.00	204.00		V472232	0.0020	Au-ICP21	VO20059818
204.00	205.00		V472233	0.0005	Au-ICP21	VO20059818
205.00	206.00		V472234	0.0005	Au-ICP21	VO20059818
206.00	207.00		V472235	0.0005	Au-ICP21	VO20059818
207.00	208.00		V472236	0.0020	Au-ICP21	VO20059818
208.00	209.00		V472237	0.0005	Au-ICP21	VO20059818
209.00	210.00		V472238	0.0005	Au-ICP21	VO20059818
210.00	211.00		V472239	0.0005	Au-ICP21	VO20059818
211.00	212.00		V472241	0.0005	Au-ICP21	VO20059818
212.00	213.00		V472242	0.0005	Au-ICP21	VO20059818
213.00	214.00		V472243	0.0070	Au-ICP21	VO20059818
214.00	215.00		V472244	0.0005	Au-ICP21	VO20059818
215.00	216.00		V472245	0.0005	Au-ICP21	VO20059818
216.00	217.00		V472246	0.0005	Au-ICP21	VO20059818
217.00	218.00		V472247	0.0005	Au-ICP21	VO20059818
218.00	219.00		V472248	0.0005	Au-ICP21	VO20059818
219.00	220.00		V472249	0.0010	Au-ICP21	VO20059818
220.00	221.00		V472250	0.0005	Au-ICP21	VO20059818
221.00	222.00		V472251	0.0005	Au-ICP21	VO20059818
222.00	223.00		V472252	0.0005	Au-ICP21	VO20059818
223.00	224.00		V472253	0.0005	Au-ICP21	VO20059818
224.00	225.00		V472254	0.0005	Au-ICP21	VO20059818
225.00	226.00		V472255	0.0005	Au-ICP21	VO20059818
226.00	227.00		V472257	0.0005	Au-ICP21	VO20059818
227.00	228.00		V472258	0.0005	Au-ICP21	VO20059818
228.00	229.00		V472259	0.0005	Au-ICP21	VO20059818

209.23 209.28 I4Q

Carbonatite 50°

3.5 cm wide carbonatite dykelet/vein at 50CA, Carb-Alb-Fluor, foliated/sheeted at 50CA, traces fine Py.

213.45 213.65 I4Q

Carbonatite 50°

A grey-beige carbonatite dyke, with distinct, parallel contacts at 47-52 CA, trace Py.

196.00 229.15 SR; CB

Séricitisation; Carbonatisation

Moderate semi-pervasive sericite and carbonate alteration. Rare fuchsite streaks. Minor fractures with greyish silicified halos.

196.00 202.35 PY00.1

Pyrite 0.1%

Mostly traces of fine pyrite. Occasional fractures with greyish silicified halos mineralized by 0.5-1% very fine-grained pyrite aggregates.

202.35 202.45 PY00.25

Pyrite 0.25%

A zone with Ca-carbonatite and fluorite veinlets, tr-0.5% fine Py.

202.45 205.10 PYtr

Pyrite tr

Traces Py.

205.10 205.25 PY00.25

Pyrite 0.25%

Traces to 0.5% pyrite fine to small diss cubic grains in quartz-Carb veinlets.

205.25 207.12 PYtr

Pyrite tr

Traces Py.

207.12 207.68 PY01

Pyrite 1%

Traces to 1-2% very fine pyrite in Carb-Alb-Fluor section/Carbt dyke.

207.68 224.00 PYtr

Pyrite tr

Rare traces of fine pyrite in the matrix; traces to 0.5% very fine pyrite in the surfaces of some low-angle fractures.

224.00 228.80 PYtr; PYtr

Pyrite tr; Pyrite tr

Traces Py.

228.80	229.15	PY01	
		Pyrite 1%	
		0.5-2% pyrite fine disseminated grains and fine-grained aggregates in irregular, silica-filled microfractures in sheared rock.	
196.00	207.12	CS	50
		Cisaillé(e) 50°	
		Sheared rock with moderately-developed foliation at 45-57CA.	
207.12	207.68	CS	52
		Cisaillé(e) 52°	
		Carbonatite weakly to moderately foliated at 50-55CA.	
207.68	224.00	CS; FA	50
		Cisaillé(e) 50°; Fracturé(e)	
		Sheared rock, weakly to moderately oriented at 50CA. Several low-angle, straight fractures at 5-20CA.	
224.00	228.80	CS	52
		Cisaillé(e) 52°	
		Sheared rock with weakly to moderately-developed foliation at 50-55CA.	
228.80	229.15	CS	57
		Cisaillé(e) 57°	
		Sheared interval with moderately to well-developed foliation at 55-60CA defined by fibrous sericite.	

From	To	Description
229.15	**230.70**	TU2; V1; CS
		Tuf intermédiaire 55°; Volcanique felsique non divisé; Cisaillé
		Sheared dacitic tuff? or a finer-grained phase of porphyriticdacite? The rock is yellowish beige, composed of fine-grained, pervasively sericitized and carbonatized groundmass. It has a porphyritic appearance caused by small, colorless Fsp grains and green, fuchsite-altered mm streaks and elongated grains (possibly altered ferromagnesian minerals). Also, there are occasional, roundish, colorless Qz "eyes". Uniform, non-magnetic. Structure: moderately to strongly sheared at 50-52CA. Fuchsite-altered grains are stretched and aligned parallel to the foliation. Occasional Qz-Carb-Fsp mm veinlets.Mineralization: rare traces of fine pyre. The lower contact is distinct by textural and compositional changes, sheared at 50-55CA.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
229.00	230.00		V472260	0.0005	Au-ICP21	VO20059818
230.00	231.00		V472261	0.0005	Au-ICP21	VO20059818

229.15 230.70 SR; CB; FC

Séricitisation; Carbonatisation; Fuschitisation

Moderate to strong pervasive sericitization, carbonatization. Carbonate reacts to HCl with mild fuzzing and bleaching. Fuchsite-altered streaks along the foliation.

229.15 230.70 PYtr

Pyrite tr

Traces of fine Py.

229.15 230.70 CS 50

Cisaillé(e) 50°

Sheared interval with moderately to well-developed foliation at 50-52CA, defined by sericite fibres and fuchsite-altered streaks.

From	To	Description
230.70	**237.10**	VC; CS **Volcanoclastique 52°; Cisaillé** Sheared reworked volcaniclastic rock (?), intermediate to felsic (dacitic) in composition. The rock is mottled pale beige, yellowish olive, moderately to strongly sericitized and carbonatized, with occasional green fuchsite streaks. The matrix is fine and medium-grained, feldspar-rich, with occasional polymictic clasts, mm to cm in size, angular to elongated, more or less oriented parallel to the foliation. Non-magnetic.The unit is crosscut by two purplish Carbonate-Fluorite-albite dykes, which have distinct contacts, parallel to or crosscutting the foliation. Contact angles vary from 60 to 70CA.Structure: sheared, well-foliated at 55-60CA with foliation defined by fibrous sericite. Mineralization: traces of fine dissemianted pyrite.Traces to 1-2% fine pyrite disseminated in carbonaitte dykes. The lower contact is distinct, at 60CA.
231.30	231.48	V1; CS **Volcanique felsique non divisé 35°; Cisaillé** Sheared dacite or dacitic tuff, same as at 229.15-230.7 m. Distinct contacts at 35CA (upper) and 52CA (lower).Pale yellowish beige, pervasively sericitized and carbonatized, with abundant, green, fuchsite-altered streaks/stretched grains.Well-foliated at 50-55CA. Rare traces Py.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
231.00	232.00		V472262	0.0005	Au-ICP21	VO20059818
232.00	233.00		V472263	0.0030	Au-ICP21	VO20059818
233.00	234.00		V472264	0.0005	Au-ICP21	VO20059818
234.00	235.00		V472265	0.0140	Au-ICP21	VO20059818
235.00	236.00		V472266	0.0070	Au-ICP21	VO20059818
236.00	237.00		V472267	0.0090	Au-ICP21	VO20059818

234.02 234.80 I4Q

Carbonatite 60°

A medium purplish grey Carb-Fluor-Alb dyke, carbonatite, with elevated REEs, PO4, Sr, Ba, Th. Both contacts are distinct, at 60CA.The rock is massive, fine to medium-grained, with a porphyritic texture. The small to med-size grains (phenocrysts?) vary in composition and shape and resemble reworked sediments (Fsp, Qz, reddish angular small clasts and grains which resemble leucoxene). There are greenish and yellow-beige sericite streaks. Non-magnetic. Weakly sheared, crosscut by a few white carbonate veinlets.Mineralization: Traces to 2% fine Py.

235.06 236.40 I4Q

Carbonatite 70°

A medium purplish grey Carb-Fluor-Alb dyke, carbonatite, with elevated REEs, PO4, Sr, Th. Contains 10 cm wide fragment of sericitized tuff.The contacts are distinct, at 60-70CA. The middle portion is sheared at 60CA.Mineralized by traces to 1-2% fine disseminated Py.

230.70 237.10 SR; CB

Séricitisation; Carbonatisation

Moderate to strong semi-pervasive to pervasive sericitization and carbonatization, minor fuchsite-altered streaks.

230.70 234.02 PYtr

Pyrite tr

Traces fine Py.

234.02 234.80 PY01.5

Pyrite 1.5%

Traces to 2% fine pyrite disseminated in a carbonatite dyke.

234.80 235.06 PY00.1

Pyrite 0.1%

Traces disseminated pyrite, fine-grained aggregate in a fracture.

235.06 236.40 PY01

Pyrite 1%

Traces to 1-2% fine pyrite disseminated in carbonaitte.

230.70 237.10 CS 60

Cisaillé(e) 60°

Sheared rock, well-foliated at 55-60CA with foliation defined by fibrous sericite.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

237.10 247.00 TU2; V1; PO; CS

Tuf intermédiaire 60°; Volcanique felsique non divisé; Porphyrique; Cisaillé

Sheared dacite or dacitic tuff (ash-crystal flow?), porphyritic.The rock is pale beige, yellowish beige, with olive-grey sericitized stripes. The matrix is fine to medium-grained, porphyritic with abundant white to colorless Fsp/plagioclase grains, anhedral to subhedral, and small, beige, grains (altered ferromagnesians?). Some parts look like porphyritic breccia, 1 to 6 cm in size, with irregular, sub-angular contours. The interval is moderately sericitized and weakly carbonatized, non-magnetic.

Structure: weakly to moderately sheared with foliation intermittently developed at 50CA (locally 30CA).

Mineralization: mostly traces pyrite.238.55-238.9 m - Carb-Fluorite-albite dyke with sharp contacts, purplish grey, porphyritic, 1-2% fine pyrite.

The lower contact is arbitrary.

238.55 238.90 I4Q

Carbonatite 30°

A medium purplish grey Carb-Fluor-Alb dyke, carbonatite, with elevated REEs, PO4, Sr, Th. Distinct contacts at 30CA (upper) and 60CA (lower).0.5-1% fine disseminated Py.

237.10 251.00 SR; CB

Séricitisation; Carbonatisation

Moderate to strong semi-pervasive to pervasive sericitization and weak carbonatization. Rare fuchsite-altered grains.

238.55 238.90 PY01

Pyrite 1%

0.5-1% fine disseminated pyrite in carbonatite dyke.

238.90 247.00 PYtr

Pyrite tr

Mostly traces pyrite.Rare fractures with greyish silica halos mineralized by 0.5-1% Py.

237.10 238.55 CS 50

Cisaillé(e) 50°

Weakly to moderately sheared interval with foliation intermittently developed at 50CA (locally 30CA).

238.90 247.00 CS 50

Cisaillé(e) 50°

Sheared rock with moderately-developed foliation at 40 to 55CA, defined by fibrous sericite.

237.00	238.00	V472268	0.0005	Au-ICP21	VO20059818
238.00	238.50	V472269	0.0010	Au-ICP21	VO20069221
238.50	239.00	V472270	0.0070	Au-ICP21	VO20069221
239.00	240.00	V472271	0.0010	Au-ICP21	VO20069221
240.00	241.00	V472272	0.0005	Au-ICP21	VO20069221
241.00	242.00	V472274	0.0020	Au-ICP21	VO20069221
242.00	243.00	V472275	0.0005	Au-ICP21	VO20069221
243.00	244.00	V472276	0.0005	Au-ICP21	VO20069221
244.00	245.00	V472277	0.0005	Au-ICP21	VO20069221
245.00	246.00	V472278	0.0005	Au-ICP21	VO20069221
246.00	247.00	V472279	0.0005	Au-ICP21	VO20069221

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
247.00	**251.00**	TU2; VC; PO; CS **Tuf intermédiaire 60°; Volcanoclastique; Porphyrique; Cisaillé** Sheared dacitic tuff (ash-crystal flow?) with greyish silica clasts and porphyritic bands and fragments (breccia?). The rock is mostly pale yellowish beige, one sections is greyish, silica-rich. The matrix is medium-grained, fine-grained and porphyritic with white, anhedral to subhedral Fsp grains. There are 2-5% dark to medium greyish, silica-rich clasts, a few mm to 3 cm in size, subangular, often stretched parallel to the foliation. Moderate semi-pervasive sericitization, very weak carbonatization, rare fuchsite-altered streaks. Non-magnetic.Structure: Sheared with weakly to moderately-developed foliation at 40 to 60CA, defined by fibrous sericite; stretched siliceous clasts. Mineralization: traces pyrite in the matrix; traces to 1% fine pyrite in grey siliceous clasts and patchy silicified section at 248.1-248.9. The lower contact is somewhat distinct by textural changes, sheared at 60CA.	247.00	248.00		V472280	0.0010	Au-ICP21	VO20069221
			248.00	249.00		V472281	0.0010	Au-ICP21	VO20069221
			249.00	250.00		V472282	0.0005	Au-ICP21	VO20069221
			250.00	251.00		V472283	0.0010	Au-ICP21	VO20069221
248.10	248.90	VC; CS **Volcanoclastique; Cisaillé** Mottled, grey and beige, patchy altered, silicified and patchy sericitized interval with mm-cm dark grey siliceous clasts. Clasts and sericitized patches are stretched along the foliation/shear at 55-60CA. Mineralized by traces to 1% Py disseminated and in fractures and foliation planes.							
247.00	252.70	PY00.2 **Pyrite 0.2%** Traces to 0.5% fine pyrite disseminated in the matrix and in grey siliceous clasts.							
247.00	251.00	CS 57 **Cisaillé(e) 57°** Sheared rock with moderately-developed foliation at 55-60CA defined by fibrous sericite and stretched grey, siliceous clasts.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To		
251.00	**257.50**	TU2; VC; CS	
		Tuf intermédiaire 60°; Volcanoclastique; Cisaillé	
		Sheared dacitic tuff with greyish siliceous clasts.The rock is mottled, pale beige-grey with medium olive-grey sericitized bands, stripes and streaks (mm to 5 cm wide), and occasional dark grey silica-rich clasts. The matrix is fine to medium-grained, rarely porphyritic, feldspar-rich, sericitized and carbonatized. Grey clasts are a few mm to 1-4 cm (long axis), stretched along the foliation. Non-magnetic.	
		Structure: sheared with moderately to well-developed foliation at 55-60CA.Mineralization: traces fine disseminated Py, traces to 0.5% pyrite in greyish clasts.	
		The lower contact is gradational over 5-10 cm.	
252.70	253.32	V1; CS	
		Volcanique felsique non divisé 62°; Cisaillé	
		Sheared dacite or dacitic tuff, same as at 229.15-230.7 m. Distinct sheared contacts at 62CA.Pale yellowish beige, pervasively sericitized and carbonatized, with abundant, green, fuchsite-altered streaks / grains stretched along the foliation. Distinct colorless to white small Fsp grains.Well-foliated at 60-55CA. Traces disseminated Py.	
251.00	260.80	SR; CB	
		Séricitisation; Carbonatisation	
		Weak to moderate patchy sericitization and carbonatization.	
252.70	257.50	PYtr	
		Pyrite tr	
		Traces of fine disseminated pyrite, in some grey clasts.	
251.00	253.60	CS	60
		Cisaillé(e) 60°	
		Sheared rock with moderately to well-developed foliation at 55-60CA, sericite-altered bands and streaks, stretched siliceous clasts.	
253.60	254.20	CNR	
		Carotte non récupérée	
		From 253.4 to 255.0 m - grinded core, 0.6 m non-recovered.	
254.20	260.80	CS	60
		Cisaillé(e) 60°	
		Sheared rock with moderately to well-developed foliation at 55-60CA, sericite-altered bands and streaks, stretched siliceous clasts.	

From	To	Len	SampleID	Au (ppm)	Method	Certificate
251.00	252.00		V472284	0.0020	Au-ICP21	VO20069221
252.00	253.00		V472285	0.0010	Au-ICP21	VO20069221
253.00	254.00		V472286	0.0010	Au-ICP21	VO20069221
254.00	255.00		V472287	0.0005	Au-ICP21	VO20069221
255.00	256.00		V472289	0.0005	Au-ICP21	VO20069221
256.00	257.00		V472290	0.0005	Au-ICP21	VO20069221
257.00	258.00		V472291	0.0020	Au-ICP21	VO20069221

From	To	Description
257.50	**260.80**	VC; TU2; CS **Volcanoclastique 60°; Tuf intermédiaire; Cisaillé** Sheared reworked volcaniclastic rock (?), intermediate to felsic (dacitic) in composition.Mottled beige, pale to medium grey, composed of fine to medium-grained, feldspar-rich matrix with sericitized streaks and stripes. Contains medium grey, silica and feldspar-rich elogate fragments stretched along the foliation. The fragments (breccia?) are fine-grained to porphyritic, a few mm to a few cm in size with stretch ratios varying from 1:2 to 1:3. Patchy sericitization and carbonatization. Non-magnetic. Structure: sheared with moderately to well=developed foliation at 57-62CA.Mineralization: traces to 1-2% pyrite fine grains in greyish fragments, fine-grained streaks along the foliation.At 258.8 m - Carbonate-Fluorite in fraces. The lower contact is rather distinct, sheared at 60CA.
257.50	260.80	PY00.25 **Pyrite 0.25%** Traces to 1-2% pyrite fine grains in greyish fragments, fine-grained streaks along the foliation.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
258.00	259.00		V472292	0.0050	Au-ICP21	VO20069221
259.00	260.00		V472293	0.0020	Au-ICP21	VO20069221
260.00	261.00		V472294	0.0005	Au-ICP21	VO20069221

From	To	Description
260.80	**268.45**	TU2; V1; CS **Tuf intermédiaire 60°; Volcanique felsique non divisé; Cisaillé** Sheared dacitic tuff (?) similar to 229.15-230.7 m.The rock is yellowish beige, composed of fine-grained, pervasively sericitized and carbonatized groundmass with mm-few mm long, bright green, fuchsite-altered streaks and stretched anhedral grains (altered ferromagnesian minerals?). Also, there are small, colorless to white feldspar crystals and occasional quartz shards and roundish, colorless Qz "eyes". Uniform, non-magnetic. Structure: moderately to strongly sheared at 55-60CA. Fuchsite-altered grains are stretched and aligned parallel to the foliation. Occasional Qz-Carb-Fsp mm veinlets. Mineralization: rare traces of fine pyrite.The lower contact is distinct by textural and compositional changes, not sharp, at ~45CA.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
261.00	262.00		V472295	0.0020	Au-ICP21	VO20069221
262.00	263.00		V472296	0.0020	Au-ICP21	VO20069221
263.00	264.00		V472297	0.0010	Au-ICP21	VO20069221
264.00	265.00		V472298	0.0010	Au-ICP21	VO20069221
265.00	266.00		V472299	0.0010	Au-ICP21	VO20069221
266.00	267.00		V472300	0.0020	Au-ICP21	VO20069221
267.00	268.00		V472301	0.0020	Au-ICP21	VO20069221

260.80 268.45 SR; CB

Séricitisation; Carbonatisation

Moderate to strong pervasive sericitization and carbonatization, numerous bright green, fuchsite-altered streaks and stretched anhedral grains (altered ferromagnesian minerals?). Carbonate reacts to HCl with subtle effervescence and bleaching on the matrix.

260.80 268.45 PYtr

Pyrite tr

Rare traces of Py.

260.80 268.45 CS 58

Cisaillé(e) 58°

Moderately to strongly sheared at 55-60CA. Fuchsite-altered grains are stretched and aligned parallel to the foliation. Occasional Qz-Carb-Fsp mm veinlets.

From	To	Description
268.45	**270.00**	TU2; CS
		Tuf intermédiaire 60°; Cisaillé
		Sheared intermediate (dacitic) tuff.The rock is pale grey-beige, fine to medium-grained, feldspar-rich, with yellowish fibrous sericite streaks and rare fuchsite-altered short streaks. Weak to moderate carbonatization. Non-magnetic.
		Structure: sheared with moderately to well-developed foliation at 55CA.
		Mineralization: traces of disseminated pyri. The lower contact is gradational over 5-10 cm, increasing number of fuchsite-altered grains, streaks.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
268.00	269.00		V472302	0.0040	Au-ICP21	VO20069221
269.00	270.00		V472303	0.0030	Au-ICP21	VO20069221

268.45 270.00 SR; CB

Séricitisation; Carbonatisation

Moderate to strong, semi-pervasive sericitization and carbonatization, rare fuchsite-altered streaks.

268.45 270.00 PYtr

Pyrite tr

Rare traces of fine disseminated Py.

268.45 270.00 CS 55

Cisaillé(e) 55°

Sheared rock with moderately to well-developed foliation at 55CA defined by fibrous sericite.

From	To	Description
270.00	**275.80**	TU2; V1; CS
		Tuf intermédiaire 55°; Volcanique felsique non divisé; Cisaillé
		Sheared dacitic tuff? similar to 260.8-268.45 m.The rock is yellowish beige, composed of fine-grained, pervasively sericitized and carbonatized groundmass with mm-few mm long, bright green, fuchsite-altered streaks and stretched anhedral grains (altered ferromagnesian minerals?). Also, there are small, colorless to white feldspar crystals and occasional quartz shards and roundish, colorless Qz "eyes". Uniform, non-magnetic. Structure: moderately to strongly sheared at 55-60CA. Fuchsite-altered grains are stretched and aligned parallel to the foliation. Occasional Qz-Carb-Fsp mm veinlets. Mineralization: traces of fine pyrite in some fractures with greyish silicification halos, in occasional Qz-Carb-Fsp veins. 0.5% pyrite around a carbonatite dyke on the lower contact.A 7 cm wide Carbonate vein/dyke occurs on the contact separating two texturally different units. The dyke has sharp contacts at 75CA (upper) and 50CA (lower).
271.75	272.20	V1
		Volcanique felsique non divisé 55°
		An interval within sericitized tuff with distinct contacts somewhat crosscutting the foliation at 55 and 62CA. The rock is pale to medium-grey, fine-grained, siliceous, patchy carbonatized, with minor sericite alteration along sheared planes. XRF: SiO2=43%, REEs (Ce+La)=400 ppm, no potassium in the matrix.
275.30	275.80	I4Q
		Carbonatite 75°
		A carbonatite dyke/vein with sharp contacts at 75CA (upper) and 50CA (lower), more or less concordant with the foliation of the host tuff.The rock is fine to medium-grained, carbonate-dominant, pale grey, massive. The dyke contains a Qz-Carb-Fsp extension vein which stops on a contact without crossing it (just a few very short apophyses). Sericite fabrics of the enclosing tuff seem to envelope the contacts. No sulphides seen in carbonatite. The sheared tuff contains 0.5% fine Py on both contacts.XRF: elevated REEs, Sr, Th.
270.00	275.80	SR; CB
		Séricitisation; Carbonatisation
		Moderate to strong pervasive sericitization and carbonatization, numerous bright green, fuchsite-altered streaks and stretched anhedral grains (altered ferromagnesian minerals?).

From	To	Len	SampleID	Au (ppm)	Method	Certificate
270.00	271.00		V472305	0.0020	Au-ICP21	VO20069221
271.00	272.00		V472306	0.0010	Au-ICP21	VO20069221
272.00	273.00		V472307	0.0040	Au-ICP21	VO20069221
273.00	274.00		V472308	0.0040	Au-ICP21	VO20069221
274.00	275.00		V472309	0.0010	Au-ICP21	VO20069221
275.00	276.00		V472310	0.0030	Au-ICP21	VO20069221

270.00	275.80	PYtr	
		Pyrite tr	
		Traces of fine pyrite in some fractures with greyish silicification halos, in occasional quartz-carbonate-Fsp veins.	
270.00	275.80	CS	58
		Cisaillé(e) 58°	
		Sheared rock with moderately to well-developed foliation at 55-60CA defined by fibrous sericite and fuchsite-altered small streaks.	

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
275.80	**279.75**	TU2; PO; CS	276.00	277.00		V472311	0.0040	Au-ICP21	VO20069221
		Tuf intermédiaire 50°; Porphyrique; Cisaillé	277.00	278.00		V472312	0.0020	Au-ICP21	VO20069221
		Sheared dacite or dacitic tuff (ash-crystal flow?), porphyritic, feldspar-rich.The rock is mottled, pale beige, yellowish beige, olive-grey, with fine to medium-grained and porphyritic bands, stripes, a few mm to a few dm in width. The bands have distinct or fuzzy boundaries. Semi-pervasive sericitization and carbonatization, non-magnetic.	278.00	279.00		V472313	0.0005	Au-ICP21	VO20069221
			279.00	279.75		V472314	0.0005	Au-ICP21	VO20069221
		Structure: sheared with moderately to well-developed foliation at 45-55CA.Mineralization: mostly traces pyre.							
		The lower contact is arbitrary, begining of strong deformation.							
275.80	279.75	SR; CB							
		Séricitisation; Carbonatisation							
		Semi-pervasive moderate to strong sericitization and carbonatization.							
275.80	279.75	PYtr							
		Pyrite tr							
		Traces of fine Py.							
275.80	279.75	CS	50						
		Cisaillé(e) 50°							
		Sheared with moderately to well-developed foliation at 45-55CA.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

279.75	280.75	V472315	0.0090	Au-ICP21	VO20069221	
280.75	281.60	V472316	0.0190	Au-ICP21	VO20069221	
281.60	282.30	V472317	0.0210	Au-ICP21	VO20069221	
282.30	283.00	V472318	0.0050	Au-ICP21	VO20069221	

279.75 282.75 TU2; CS; I4Q

Tuf intermédiaire; Cisaillé; Carbonatite

Strongly deformed intermediate Tuff (ash-crystal flow?) with Qz-Crb-Fsp veins and Carb-Fsp-Fluorite carbonatite.The rock is grey to olive-beige-grey with yellowish fibrous sericite streaks, medium-grained, with randomly oriented, anhedral to subhedral white Fsp grains, patchy sericitized, carbonatized, non-magnetic.

The interval is crosscut by 10-15% veinlets and veins, composed of colorless Qz, white Fsp and white to beige Carb. Veins are medium to coarse-grained, a few mm to 5-6 cm in width. Veins are variably oriented: 1) more or less concordant to the foliation, sometimes folded with sericite fabrics, some are boudinaged; 2) veins crosscutting the foliation at 0-25CA, irregular, often pinching out; 3) a few en-echelon veinlets which look like younger tension gashes crosscutting a bit older veinlets of the same composition. Most veins are barren but sone have traces pyrite.The rock is strongly sheared, deformed with sericite fabrics defining foliation at 47-50CA.At 281-281.55 m - carbonatite dyke or injections into tuff, Carb-Fsp-Fluorite, with anomalous REEs and elevated trace Pb, Th, Zr.

The upper contact of the zone is obscured by crosscutting Qz-CArb-Fsp irregular veins, the lower contact is at ~45CA.Mineralization: traces to 1-2% fine pyrite disseminated in sheared fabrics around veins and in carbonatite; very fine-grained aggregates occur in irregular fractures within carbonaitite and are crosscut by Qz-Carb-Fsp veinlets.

Traces galena, sphalerite in veins.The lower contact is arbitrary, marked at the end of strong deformation and veining.

281.00 281.55 I4Q

Carbonatite

281-281.55 m - carbonatite dyke or injections into tuff, fine to med-grained, composed of Carb-Fsp-Fluorite, with anomalous REEs and elevated trace Pb, Th, Zr. The upper contact of the zone is obscured by crosscutting Qz-Carb-Fsp irregular veins, the lower contact is at ~45CA.Traces to 1-2% Py fine to medium disseminated grains and very fine aggregates in irregular fractures.

279.75 282.75 CB; SR; SI

Carbonatisation; Séricitisation; Silicification

Semi-pervasive, moderate to strong carbonatization, sericitization. Numerous quartz-Carb-Fsp veins.

279.75 282.75 PY01.5; GLtr; SPtr

Pyrite 1.5%; Galéne tr; Sphalérite tr

Traces to 1-2% pyrite fine disseminated grains in sheared tuff around

quartz-carbonate-Fsp veins; fine to med grains and very fine aggregates in irregular fractures in carbonatite. Traces galena, sphalerite in veins.

279.75 282.75 CS; FA 50

Cisaillé(e) 50°; Fracturé(e)

A strongly sheared and deformed interval with sericite fabrics defining foliation at 47-50CA. 10-15% Qz-Carb-Fsp veinlets and veins crosscutting or concordant to the foliation.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
282.75	**292.00**	TU2; V1; PO	283.00	284.00		V472319	0.0270	Au-ICP21	VO20069221
		Tuf intermédiaire; Volcanique felsique non divisé; Porphyrique	284.00	285.00		V472320	0.0005	Au-ICP21	VO20069221
		Dacitic crystal tuff or porphyritic dacite.Unriform in appearance, pale yellowish beige, composed of fine to medium-grained matrix with abundant white, anhedral to subhedral Fsp crystals. Moderately sericitized and weakly carbonatized, non-magnetic.Structure: weakly sheared, weakly fractured and cut by 0.5-1% Qz-Carb-Fsp mm-cm veinlets, generally oriented at 45-50CA.	285.00	286.00		V472322	0.0110	Au-ICP21	VO20069221
			286.00	287.00		V472323	0.0030	Au-ICP21	VO20069221
			287.00	288.00		V472324	0.0060	Au-ICP21	VO20069221
			288.00	289.00		V472325	0.0005	Au-ICP21	VO20069221
			289.00	290.00		V472326	0.0005	Au-ICP21	VO20069221
		Mineralization: traces to locally 0.5% fine disseminated Py, locally traces ot galena and sphalerite.The lower contact is arbitrary, gradational, marked at the beginning of greyish siliceous clasts.	290.00	291.00		V472327	0.0010	Au-ICP21	VO20069221
			291.00	292.00		V472328	0.0005	Au-ICP21	VO20069221

282.75 297.00 SR; CB

Séricitisation; Carbonatisation

Moderate semi-pervasive to pervasive sericitization, weak to moderate semi-pervasive carbonatization.

282.75 285.00 PY00.2; GL00.2; SP00.2

Pyrite 0.2%; Galéne 0.2%; Sphalérite 0.2%

Traces to 0.5% pyrite fine cubic grains disseminated in tuff. Traces to 1% galena and sphalerite in some Qz veinlets.

285.00 292.00 PYtr

Pyrite tr

Traces disseminated fine pyrite. Rare traces of galena.

282.75 292.00 FA

Fracturé(e)

Weakly fractured interval with 0.5-1% Qz-Carb-Fsp veinlets generally oriented at 45-50CA. Locally irregular fractures with greyish alteration halos.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description
292.00	**297.00**	TU2; VC; CS **Tuf intermédiaire; Volcanoclastique; Cisaillé** Sheared intermediate Tuff (ash-crystal flow?) with 5-15% grey silica-rich clasts and sericite-rich porphyritic clasts or bands.The rock is pale grey-beige, sericitized and carbonatized, non-magnetic. Greysh clases are fine- to medium-grained, silica and feldspar rich, a few mm to a few cm in size, angular, subangular, elongate, stretched parallel to the foliation with a stretch ratios from 1:2 to 1:3. Structure: moderately sheared, foliated at 45-50CA.Traces pyrite in the matrix. Grey clasts contain 1-2% fine pyrite and fine beige specks of leucoxene. Gradational contact.
292.00	297.00	PYtr **Pyrite tr** Traces of disseminated pyrite in the matrix. Grey clasts contain up to 1-2% fine Py.
292.00	297.00	CS 47 **Cisaillé(e) 47°** Sheared rock with moderately-developed foliation at 45-50CA defined by sericite fabrics and orientation of stretched clasts.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
292.00	293.00		V472329	0.0005	Au-ICP21	VO20069221
293.00	294.00		V472330	0.0010	Au-ICP21	VO20069221
294.00	295.00		V472331	0.0005	Au-ICP21	VO20069221
295.00	296.00		V472332	0.0020	Au-ICP21	VO20069221
296.00	297.00		V472333	0.0005	Au-ICP21	VO20069221

From	To	Description
297.00	**315.80**	TU2; CS; PO **Tuf intermédiaire; Cisaillé; Porphyrique** Sheared dacitic tuff, mm size lapillis to porphiritic clasts, beige to yellowish, fine, well foliated at 50 degree to core axis banding concordant. Deformed at 50-55 degree to core axis elongated to boudinaged porphyritic clasts to cm size, 298.5 m – 1-2 cm wide fault gouge and microbreccia.Sericite/carbonate - alterd. Mineralized ; trace pyrite. Overall with 298.6-298.8 m – fine-grained pyrite in irregular fractures.Gradational contact.
297.00	315.80	SR; CB **Séricitisation; Carbonatisation** Sericite/carbonate -altered.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
297.00	298.00		V472334	0.0005	Au-ICP21	VO20069221
298.00	299.00		V472335	0.0010	Au-ICP21	VO20069221
299.00	300.00		V472337	0.0005	Au-ICP21	VO20069221
300.00	301.00		V472338	0.0005	Au-ICP21	VO20069221
301.00	302.00		V472339	0.0005	Au-ICP21	VO20069221
302.00	303.00		V472340	0.0005	Au-ICP21	VO20069221
303.00	304.00		V472341	0.0005	Au-ICP21	VO20069221
304.00	305.00		V472342	0.0010	Au-ICP21	VO20069226
305.00	306.00		V472343	0.0005	Au-ICP21	VO20069226
306.00	307.00		V472344	0.0010	Au-ICP21	VO20069226
307.00	308.00		V472345	0.0010	Au-ICP21	VO20069226
308.00	309.00		V472346	0.0010	Au-ICP21	VO20069226
309.00	310.00		V472347	0.0005	Au-ICP21	VO20069226
310.00	311.00		V472348	0.0040	Au-ICP21	VO20069226

297.00	315.80	PYtr				311.00	312.00		V472349	0.0005	Au-ICP21	VO20069226
		Pyrite tr				312.00	313.00		V472350	0.0010	Au-ICP21	VO20069226
						313.00	314.00		V472351	0.0010	Au-ICP21	VO20069226
		Mineralized ; trace pyrite. Overall with 298.6-298.8 m û fine-grained pyrite in irregular fractures.				314.00	315.00		V472353	0.0030	Au-ICP21	VO20069226
						315.00	316.00		V472354	0.0020	Au-ICP21	VO20069226
297.00	315.80	CS			50							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
315.80	**325.00**	TU2; PO; CS	316.00	317.00		V472355	0.0010	Au-ICP21	VO20069226
		Tuf intermédiaire; Porphyrique; Cisaillé	317.00	318.00		V472356	0.0010	Au-ICP21	VO20069226
		Tuff, dacitic? tuff,beige to yellowish, mm size angular lapillis, with 80% elongated mineralize porphyritic clasts(syenitic). Clasts are mineralized up to 5-6% medium-grain to fine-grain diss;d pyrite.	318.00	319.00		V472357	0.0020	Au-ICP21	VO20069226
			319.00	320.00		V472358	0.0005	Au-ICP21	VO20069226
			320.00	321.00		V472359	0.0020	Au-ICP21	VO20069226
		Sheared, at 50 degree to core axis.Banding at 50 degree to core axis with overall foliation at 50-55 degree to core axis. Sericite altered to clay clasts at 313.3m-313.35m, sericite/carbonate -alterd.	321.00	322.00		V472360	0.0010	Au-ICP21	VO20069226
			322.00	323.00		V472361	0.0030	Au-ICP21	VO20069226
			323.00	324.00		V472362	0.0005	Au-ICP21	VO20069226
		Mineralized up to 0.5% fine-grain pyrite overall.	324.00	325.00		V472363	0.0010	Au-ICP21	VO20069226
		Ash/lapilli/crystal Tuff with polygenic breccia (dark grey silica-rich clasts, sericite-rich clasts or bands), beige, sheared, well-foliated. Fine pyrite in dark grey clasts.							
315.80	325.00	SR; CB							
		Séricitisation; Carbonatisation							
		Sericite altered to clay clasts at 313.3m-313.35m, sericite/carbonate - altered.							
315.80	325.00	PYtr							
		Pyrite tr							
		Mineralized up to 0.5% fine-grain pyrite overall. Fine pyrite in dark grey clasts.							
315.80	325.00	CS			50				
		Cisaillé(e) 50°							
		Sheared, at 50 degree to core axis.Banding at 50 degree to core axis with overall foliation at 50-55 degree to core axis. Ash/lapilli/crystal Tuff with polygenic breccia (dark grey silica-rich clasts, sericite-rich clasts or bands), beige, sheared, well-foliated.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description
325.00	**332.00**	TU2; CS **Tuf intermédiaire; Cisaillé** Tuff, dacitic, beige, sheared at 50 degree to core axis banded and foliated at 50-55 degree to core axis. Carb/sericite/weak fuchsite altered.328.35m-328.47 one carbonatite unit? elevated REE, sharp contacts. Calcite/flourite altered. 328.75m-328.83m carbonatite?, calcite/flourite, sharp contact.Trace pyrite overall, with <1% medium-grain to fine-grain pyrite around veining and carbonatite. Lapilli/ash/crystal Tuff, beige, sericite/carbonate-altered, sheared, well-foliated, traces pyrite.328.35-328.8 m – two purplish grey Carb-Fluorite-albite dykes, 6 and 10 cm wide, traces pyrite. Gradational contact.
325.00	332.00	CB; SR; FC **Carbonatisation; Séricitisation; Fuschitisation** Carb/sericite/weak fuchsite altered.328.35m-328.47 one carbonatite unit? elevated REE.
325.00	332.00	PYtr **Pyrite tr** Trace pyrite overall, with <1% medium-grain to fine-grain pyrite around veining and carbonatite.
325.00	332.00	CS 50 **Cisaillé(e) 50°** Sheared at 50 degree to core axis banded and foliated at 50-55 degree to core axis.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
325.00	326.00		V472364	0.0005	Au-ICP21	VO20069226
326.00	327.00		V472365	0.0005	Au-ICP21	VO20069226
327.00	328.00		V472366	0.0020	Au-ICP21	VO20069226
328.00	329.00		V472367	0.0020	Au-ICP21	VO20069226
329.00	330.00		V472368	0.0010	Au-ICP21	VO20069226
330.00	331.00		V472370	0.0005	Au-ICP21	VO20069226
331.00	332.00		V472371	0.0050	Au-ICP21	VO20069226

From	To	Description
332.00	**342.00**	TU2; CS **Tuf intermédiaire; Cisaillé** Tuff, beige, angular lappillis, possible polygenic breccia, elongated boudinaged silica filled to altered volcanoclasts.Banded foliated at 50 degree to core axis - Sericite/carbonate atered.Mineralized trace to 0.5% fine-grain pyrite stringers to rare disseminated overall with <1% medium-grain to fine-grain pyrite around carbonatite (339.15m-339.75m).Ash/lapilli/crystal Tuff with polygenic breccia (dark grey silica-rich clasts, sericite-rich clasts or bands), beige, sericite/carbonate -altered, sheared, well-foliated. Traces fine pyrite in dark grey clasts.332-332.45 m – several purplish grey Carb-Fluorite-albite veins (~50%), 2-15 cm wide), traces pyrite. XRF shows elevated REEs, Sr, P, Ba, Th, Zr, Pb.338.2-338.4 m – carbonatite vein.339.15-339.75 m – Foliated carbonatite with distinct contacts, tr Py340.2m-340.3m one wuggy

From	To	Len	SampleID	Au (ppm)	Method	Certificate
332.00	333.00		V472372	0.0110	Au-ICP21	VO20069226
333.00	334.00		V472373	0.0100	Au-ICP21	VO20069226
334.00	335.00		V472374	0.0120	Au-ICP21	VO20069226
335.00	336.00		V472375	0.0130	Au-ICP21	VO20069226
336.00	337.00		V472376	0.0180	Au-ICP21	VO20069226
337.00	338.00		V472377	0.0090	Au-ICP21	VO20069226
338.00	339.00		V472378	0.0080	Au-ICP21	VO20069226
339.00	340.00		V472379	0.0050	Au-ICP21	VO20069226
340.00	341.00		V472380	0.0080	Au-ICP21	VO20069226
341.00	342.00		V472381	0.0050	Au-ICP21	VO20069226

carbonate/albite/flourite vein.Gradational contact.

332.00	342.00	SR; CB	
		Séricitisation; Carbonatisation	
		Sericite/carbonate atered.	
332.00	342.00	PYtr	
		Pyrite tr	
		Mineralized trace to 0.5% fine-grain pyrite stringers to rare disseminated overall with <1% medium-grain to fine-grain pyrite around carbonatite (339.15m-339.75m).	
332.00	342.00	CS	50
		Cisaillé(e) 50°	
		Banded foliated at 50 degree to core axis – several purplish grey Carb-Fluorite-albite veins (~50%), 2-15 cm wide – carbonatite vein.339.15-339.75 m – Foliated carbonatite with distinct contacts Gradational contact.	

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
342.00	**348.00**	TU2; CS	342.00	343.00		V472382	0.0080	Au-ICP21	VO20069226
		Tuf intermédiaire; Cisaillé	343.00	344.00		V472383	0.0070	Au-ICP21	VO20069226
		Ash/lapilli/crystal Tuff, beige, sericite/carbonate -altered with numerous pale grey carbonate-rich intervals – carbonatite? (XRF: PO4=4%, K=2%, moderately elevated REEs). All parts are equally foliated/sheared.	344.00	345.00		V472385	0.0080	Au-ICP21	VO20069226
			345.00	346.00		V472386	0.0010	Au-ICP21	VO20069226
		Traces pyrite in some grey fractures in Carb parts.	346.00	347.00		V472387	0.0010	Au-ICP21	VO20069226
			347.00	348.00		V472388	0.0005	Au-ICP21	VO20069226
		Distinct changes in colour but not in texture, gradational.							
342.00	348.00	SR; CB							
		Séricitisation; Carbonatisation							
		Sericite/carbonate -altered with numerous pale grey carbonate-rich intervals.							
342.00	348.00	PYtr							
		Pyrite tr							
		Traces pyrite in some grey fractures in Carb parts.							
342.00	348.00	CS							
		Cisaillé(e)							

Cisaillé(e)

All parts are equally foliated/sheared.

From	To	Description
348.00	**353.15**	TU2; CS **Tuf intermédiaire; Cisaillé** Red-grey Tuff (ash/lapilli/crystal), mottled, patchy Hem/carbonate /Ser-altered, non-magnetic, sheared, moderately foliated, rare traces pyrite. Distinct changes in colour but not in texture, gradational.Banding at 55 degree to core axis few sericite altered felsic clasts feldspar phenos appear boudinaged concordand foliation. Mineralization at 0.5% pyrite at best.Moderate Value PO4=2.16%
348.00	353.15	HM; CB; SR **Hématisation; Carbonatisation; Séricitisation** Patchy Hem/carbonate /Ser-altered, non-magnetic.
348.00	353.15	PY00.5 **Pyrite 0.5%** Mineralization at 0.5% pyrite at best.
348.00	353.15	CS 55 **Cisaillé(e) 55°** Sheared, moderately foliated. Banding at 55 degree to core axis.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
348.00	349.00		V472389	0.0010	Au-ICP21	VO20069226
349.00	350.00		V472390	0.0005	Au-ICP21	VO20069226
350.00	351.00		V472391	0.0005	Au-ICP21	VO20069226
351.00	352.00		V472392	0.0020	Au-ICP21	VO20069226
352.00	353.00		V472393	0.0010	Au-ICP21	VO20069226

From	To	Description
353.15	**361.00**	TU2; CS **Tuf intermédiaire; Cisaillé** Ash/crystal Tuff or possibly Dacite with tiny colorless Fsp crystals, uniform, beige, sericite/carbonate -altered. Sheared, moderately foliated. Rare traces of fine pyrite.360.9-361.3 m – 0.5-3% fine pyrite in dark grey fractures parallel to foliation.No distinct lower contact, gradational changes in colour.Mineralization controlled by volcanic fragments.
353.15	361.00	SR; CB **Séricitisation; Carbonatisation** Sericite/carbonate -altered.
353.15	361.00	PYtr

From	To	Len	SampleID	Au (ppm)	Method	Certificate
353.00	354.00		V472394	0.0005	Au-ICP21	VO20069226
354.00	355.00		V472395	0.0020	Au-ICP21	VO20069226
355.00	356.00		V472396	0.0005	Au-ICP21	VO20069226
356.00	357.00		V472397	0.0005	Au-ICP21	VO20069226
357.00	358.00		V472398	0.0005	Au-ICP21	VO20069226
358.00	359.00		V472399	0.0005	Au-ICP21	VO20069226
359.00	360.00		V472401	0.0005	Au-ICP21	VO20069226
360.00	361.00		V472402	0.0010	Au-ICP21	VO20069226

Pyrite tr

Rare traces of fine pyrite.

360.9-361.3 m û 0.5-3% fine pyrite in dark grey fractures parallel to foliation.

Mineralization controlled by volcanic fragments.

353.15 361.00 CS

Cisaillé(e)

Sheared, moderately foliated.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
361.00	**368.85**	TU2; CS	361.00	362.00		V472403	0.0005	Au-ICP21	VO20069226
		Tuf intermédiaire; Cisaillé	362.00	363.00		V472404	0.0005	Au-ICP21	VO20069226
		Intermediate tuff, dark greysh to reddish, aphanitic, rare faint quartz /plagioclase fragmets/clasts. Volcanic protholith, with few coarse mm size syenite fragments.Foliated at 50 degree to core axis.	363.00	364.00		V472405	0.0005	Au-ICP21	VO20069226
			364.00	365.00		V472406	0.0005	Au-ICP21	VO20069226
			365.00	366.00		V472407	0.0005	Au-ICP21	VO20069226
		Carb/hem. Mineralization trace. Altered Tuff? Syenite? Medium-grained, medium red-mauve-grey, Hematite-altered, weak Carb, sheared, weak-mod foliated, non-magn, with fine disseminated grains (Hematite after medium-grain). Locally porphyritic (lapilli?). Rare traces pyrite. No distinct lower contact, gradational changes in colour.	366.00	367.00		V472409	0.0005	Au-ICP21	VO20069226
			367.00	368.00		V472410	0.0005	Au-ICP21	VO20069226
			368.00	369.00		V472411	0.0005	Au-ICP21	VO20069226

361.00 368.85 CB; HM

Carbonatisation; Hématisation

Carb/hem. Hematite-altered, Weak Carb. Non-magnetic.

361.00 368.85 PYtr

Pyrite tr

Mineralization trace. Rare traces pyrite.

361.00 368.85 CS 50

Cisaillé(e) 50°

Foliated at 50 degree to core axis. No distinct lower contact.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description
368.85	394.80	TU2; CS **Tuf intermédiaire; Cisaillé** Heterogeneous Tuff. Alternating beige, sericite-rich Tuff and darker red-grey Hem-altered Tuff, with a very mottled appearance, pink, mauve, grey, yellow-green, Hem/sericite/carbonate -altered, fine to med-grained, locally porphyritic, sheared, well-foliated. Traces pyrite.Large syenitic clasts with boudinaged feldsapr to porphyritic texture, lapilli and sericitic felsic elongated fragments within it. 393.8-394.8 m – 0.5-1% pyrite fine aggregates in some fractures parallel to foliation. All parts are sheared, foliated. Traces pyrite in some Qz-Carb-(Fsp) veinlets (pre- or syn-tectonic). 394.55-394.8 m – 1-2% fine pyrite around a 1 cm fluorite veinlet 394.7 m – 3 cm Carbonate-Fluorite vein, 1-3% pyrite fine aggregates.
368.85	394.80	HM; SR; CB **Hématisation; Séricitisation; Carbonatisation** Hem/sericite/carbonate -altered.
368.85	394.80	PYtr **Pyrite tr** Traces pyrite in some Qz-Carb-(Fsp) veinlets (pre- or syn-tectonic). 394.55-394.8 m û 1-2% fine pyrite around a 1 cm fluorite veinlet 394.7 m û 3 cm Carbonate-Fluorite vein, 1-3% pyrite fine aggregates.
368.85	394.80	CS **Cisaillé(e)** Sheared, well-foliated.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
369.00	370.00		V472412	0.0005	Au-ICP21	VO20069226
370.00	371.00		V472413	0.0005	Au-ICP21	VO20069226
371.00	372.00		V472414	0.0005	Au-ICP21	VO20069226
372.00	373.00		V472415	0.0005	Au-ICP21	VO20069226
373.00	374.00		V472416	0.0005	Au-ICP21	VO20069226
374.00	375.00		V472417	0.0005	Au-ICP21	VO20069226
375.00	376.00		V472418	0.0005	Au-ICP21	VO20069226
376.00	377.00		V472419	0.0005	Au-ICP21	VO20069226
377.00	378.00		V472420	0.0005	Au-ICP21	VO20069226
378.00	379.00		V472421	0.0005	Au-ICP21	VO20069226
379.00	380.00		V472422	0.0010	Au-ICP21	VO20069226
380.00	381.00		V472423	0.0005	Au-ICP21	VO20069226
381.00	382.00		V472424	0.0005	Au-ICP21	VO20069226
382.00	383.00		V472426	0.0005	Au-ICP21	VO20069226
383.00	384.00		V472427	0.0005	Au-ICP21	VO20069226
384.00	385.00		V472428	0.0005	Au-ICP21	VO20069226
385.00	386.00		V472429	0.0005	Au-ICP21	VO20069226
386.00	387.00		V472430	0.0005	Au-ICP21	VO20069226
387.00	388.00		V472431	0.0005	Au-ICP21	VO20069226
388.00	389.00		V472432	0.0005	Au-ICP21	VO20069226
389.00	390.00		V472433	0.0010	Au-ICP21	VO20069226
390.00	391.00		V472434	0.0005	Au-ICP21	VO20069226
391.00	392.00		V472435	0.0005	Au-ICP21	VO20069226
392.00	393.00		V472436	0.0010	Au-ICP21	VO20069226
393.00	394.00		V472437	0.0030	Au-ICP21	VO20069226
394.00	395.00		V472438	0.0090	Au-ICP21	VO20069226

From	To	Description
394.80	397.80	TU **Tuf non divisé** Tuff, fine grain volcanic protolith, with <40% quartz, sericite altered beige ash in upper unit overlaying intermediate grey tuff, foliated at 70 degree to core axis lapilli, 394.8m-395m 65% carb quartz veining, late crosscuting at 80 degree to core axis. 395.4m-395.7m 75% late carbonate/quartz veining at 80 degree to core axis.396.1m-396.3 70% extensional carb/quartz veining at 75 degree to core axis concordant.Carb/sericite ash with carb/hem and weak sericite flakes intermediate tuff.Mineralized trace.Tuff or clastic sediments, grey, olive, beige, wk-mod foliated, sericitized, fine to med-grained, crosscut by 10-15% Qz-Carb veins.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
395.00	396.00		V472439	0.0005	Au-ICP21	VO20069226
396.00	397.00		V472441	0.0005	Au-ICP21	VO20069226
397.00	398.00		V472442	0.0020	Au-ICP21	VO20069226

Rare traces pyrite.

A distinct lower contact, parallel to foliation.

394.80 397.80 SR; CB; HM

Séricitisation; Carbonatisation; Hématisation

Sericite altered.
Carb/sericite ash with carb/hem and weak sericite flakes intermediate tuff.

394.80 397.80 PYtr

Pyrite tr

Mineralized trace.

394.80 397.80 CS 70

Cisaillé(e) 70°

Foliated at 70 degree to core axis. 65% carb quartz veining, late crosscuting at 80 degree to core axis.

395.4m-395.7m 75% late carbonate/quartz veining at 80 degree to core axis.

396.1m-396.3 70% extensional carb/quartz veining at 75 degree to core axis concordant.

Tuff or clastic sediments. Weak-mod foliated, crosscut by 10-15% Qz-Carb veins.

A distinct lower contact, parallel to foliation.

From	To	Description
397.80	**405.15**	TU2; CS **Tuf intermédiaire; Cisaillé** Tuff Pink-beige, pale grey, fine-grained with coarser stretched grey-green grains and greyish siliceous clasts, strongly sheared, foliated.401.0-401.1 m – a fault zone with minor gouge and microbreccia.A distinct lower contact, faulted, with reddish alteration.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
398.00	399.00		V472443	0.0010	Au-ICP21	VO20069226
399.00	400.00		V472444	0.0005	Au-ICP21	VO20069226
400.00	401.00		V472445	0.0005	Au-ICP21	VO20069226
401.00	402.00		V472446	0.0005	Au-ICP21	VO20069226
402.00	403.00		V472447	0.0005	Au-ICP21	VO20069226
403.00	404.00		V472448	0.0005	Au-ICP21	VO20069226
404.00	405.00		V472449	0.0020	Au-ICP21	VO20069226

Mineralization barren.

397.80 405.15 SI; FK

Silicification; Altération en feldspath potassique

Greyish siliceous clasts reddish alteration.

397.80 405.15 PYtr

Pyrite tr

Rare traces of Py.

397.80 405.15 CS

Cisaillé(e)

Strongly sheared, foliated.
401.0-401.1 m – a fault zone with minor gouge and microbreccia.
A distinct lower contact, faulted.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
405.15	**406.75**	V1; CS **Volcanique felsique non divisé; Cisaillé** Felsic volcanic, pale grey-beige with some dark grey stripes, strongly sheared and foliated in the upper portion and massive, weakly-foliated in lower parts. Very fine-grained with colorless Fsp “eyes”. Rare traces pyrite. A distinct lower contact parallel to the foliation.	405.00	406.00		V472450	0.0005	Au-ICP21	VO20069226
			406.00	407.00		V472451	0.0010	Au-ICP21	VO20069226

405.15 406.75 FK

Altération en feldspath potassique

Colorless Fsp “eyes”.

405.15 406.75 PYtr

Pyrite tr

Rare traces pyrite.

405.15 406.75 CS

Cisaillé(e)

Strongly sheared and foliated in the upper portion and massive, weakly-foliated in lower parts.

A distinct lower contact parallel to the foliation.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
406.75	**408.00**	TU2; CS **Tuf intermédiaire; Cisaillé** Tuff Beige-grey with dark grey stripes, sheared, well-foliated, sericite/±Carb-altered, rare traces pyrite.	407.00	408.00		V472452	0.0005	Au-ICP21	VO20069226
406.75	408.00	SR; CB **Séricitisation; Carbonatisation** Sericite/±Carb-altered.							
406.75	408.00	PYtr **Pyrite tr** Rrare traces pyrite.							
406.75	408.00	CS **Cisaillé(e)** Sheared, well-foliated.							

Downhole Survey

Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method
0.00	360.00	-60.00	Collar	51.00	355.31	-59.20	Reflex EZ-Gyro	60.00	356.12	-58.86	Reflex EZ-Gyro
75.00	355.02	-58.25	Reflex EZ-Gyro	105.00	354.40	-57.00	Reflex EZ-Gyro	135.00	354.78	-54.93	Reflex EZ-Gyro
165.00	353.00	-52.80	Reflex EZ-Gyro	279.00	353.40	-47.50	Reflex EZ-Gyro	309.00	353.60	-46.60	Reflex EZ-Gyro
339.00	353.71	-45.42	Reflex EZ-Gyro	369.00	354.02	-43.34	Reflex EZ-Gyro				

Drillhole Information

Easting:	707795.82
Northing:	5490086.87
Elevation:	299.64
Azimuth	0.60
Dip	-52.30

Drilling Information

DrillCo:	RJLL
DrillID:	FSD002
DrillStart:	04-Mar-20
DrillEnd:	10-Mar-20
Length (m):	531.00

Logging Information

LogBy:	M. Sokolov (OGQ #1491)
LogStart:	06-Mar-20
LogEnd:	14-Mar-20

Drillhole Summary

Logged by Leslie Hunt, GIT and Maria Sokolov, OGQ.

DO-20-273 is 531.0 meters in depth. It is composed of mafic volcanic rocks with major syenite intrusions and minor carbonatite intrusions.

The top of the hole demonstrates a basalt flow, with localized flow breccia's, amygdule's and pillow margins within a fine grained dark rock. There is patchy epidote alteration, in local areas appearing pseudo brecciated in nature. There is patchy calcite/ iron carbonate as well. There is a brown alteration that was theorized in the logs as potentially K-feldspar, biotite or hydrothermal garnet. Upon further thought and discussion this brown colouring is most likely feldspar alteration. This alteration grades to an amphibole (actinolite) chlorite replacement style alteration, to an iron carbonate, sericite alteration. There is an increase of high Mg basalts proximal to the syenite intrusions (probably more than marked in the log).

There are 3 major syenite intersections. The first major syenite interval is at 160 m. There is interlayering of syenite dykes leading up to and following the major unit. There is a mixing zone following this interval to 210 meters. The mixing zone is defined by iron carbonate and silicified patches, which have fine grained mineralization along the margins, this is a zone of increased pyrite mineralization due to permeability barriers in the mix.

At 236-237 and 277-279 m there is semi massive to massive sulphides hosted in high Mg basalts. These could be interflow sediments, but there is no sedimentary structures to base that on.

350-368 m there is a sizeable interval of crackle breccia (little to no displacement of the fragments), infilled with carbonate and calcite. There is fine grained pyrite along the brecciated margins. This is a brecciated basalt, form the looks of the fragments, but due to the fluid and the fine grained pyrite it looks like a potential mineralized zone.

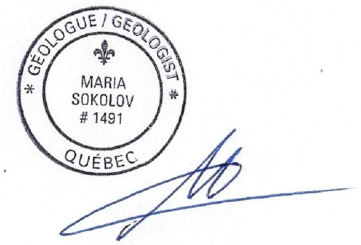
The second syenite package is at 369 - 457 m, this is similar to the first as there is interlayered syentie dykes and mixing zones on either side. This zone is followed by hyper Magnesian basalt that has been weakly finitized and has fine grained disseminated pyrite. This high Mg basalt could be a transition into ultramafics?

The third syenite package at 485 - 499, both of these zones are similar with interlayering of syenite dykes and mixing zones after the intervals. At 413 m there is extensive leaching and fracturing within the syneite, this could be a potential fault or fluid path? There is a gradational mixing zone that follows this interval as it changes back to basalts. Lithological and alteration (iron carbonate, siliceous zones) form permeability barriers that have concentrated pyrite mineralization.

There are three fracture sets that have been documented. The most abundant is around 50 degrees, the second is a shallow set at 15-20 degrees and there is a less common high angle at 70-80 degrees. All of these fractures have been filled in with calcite/ carbonate +/- epidote chlorite. All of these appear to be at least locally mineralized. Intrusions take advantage of all there sets.

Intercepts >= 0.1 ppm

Hole_ID	From	To	Length	Au (ppm)
DO-20-273	161	177	16	0.397
DO-20-273	193	211	18	0.459
DO-20-273	214	215	1	0.11
DO-20-273	407	408	1	0.174
DO-20-273	429.4	457.7	28.3	0.418
DO-20-273	462	463	1	0.431
DO-20-273	469	482	13	0.302
DO-20-273	495	498	3	0.121



M. Sokolov (OGQ #1491)

12-Jan-22

Lithology and Assay Results

From	To	Description
0.00	**41.80**	M-T **Mort terrain** Overburden.

From	To	Description
41.80	**69.90**	V3B; AM; CO **Basalte; Amygdalaire; Coussiné** Basalt, amygdaloidal possibly pillowed with brecciated zones - up to 20 cm - inflled with calcite. Fine grained, green grey, with patchy epidote and biotite/ garnet? and pervasive chlorite/ amphibole alteration. Pyrite is disseminated, in aggregates of fine crystals and in calcite veinlets. Unit is locally magnetic.
41.80	69.90	I2D **Syénite** 2 intrusive dykes, up to 0.6 m in length. they are medium grained with pink hematite staining. There are 0.5-2 cm chill margins along the sharp contact with the basalts.
41.80	69.90	EP20; CB10; CC05; CL05; AM05; BO01 **Épidotisation 20; Carbonatisation 10; Calcitisation 5; Chloritisation 5; Amp** Patchy epidote with lesser biotite/garnet? Both are assoiciated together. Basalt is pervassivly altered with chlortie and amphibole.
41.80	69.90	PY00.5; MG00.1 **Pyrite 0.5%; Magnétite 0.1%** Pyrite is dessiminated and found within calcitic zones. Pyrite mineralization ranges from trace to 1% can is uo to 3 mm in size.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
41.80	43.00		A0101801	0.0360	Au-ICP21	VO20059808
43.00	44.00		A0101802	0.0140	Au-ICP21	VO20059808
44.00	45.00		A0101803	0.0030	Au-ICP21	VO20059808
45.00	45.60		A0101804	0.0050	Au-ICP21	VO20059808
45.60	46.30		A0101805	0.0100	Au-ICP21	VO20059808
46.30	47.00		A0101806	0.0030	Au-ICP21	VO20059808
47.00	48.00		A0101807	0.0100	Au-ICP21	VO20059808
48.00	49.00		A0101809	0.0100	Au-ICP21	VO20059808
49.00	50.00		A0101810	0.0120	Au-ICP21	VO20059808
50.00	51.00		A0101811	0.0130	Au-ICP21	VO20059808
51.00	52.00		A0101812	0.0030	Au-ICP21	VO20059808
52.00	53.00		A0101813	0.0020	Au-ICP21	VO20059808
53.00	54.00		A0101814	0.0050	Au-ICP21	VO20059808
54.00	55.00		A0101815	0.0070	Au-ICP21	VO20059808
55.00	56.00		A0101816	0.0020	Au-ICP21	VO20059808
56.00	57.00		A0101817	0.0020	Au-ICP21	VO20059808
57.00	58.00		A0101818	0.0070	Au-ICP21	VO20059808
58.00	59.00		A0101819	0.0010	Au-ICP21	VO20059808
59.00	60.00		A0101820	0.0020	Au-ICP21	VO20059808
60.00	61.00		A0101821	0.0010	Au-ICP21	VO20059808
61.00	62.00		A0101822	0.0005	Au-ICP21	VO20059808
62.00	63.00		A0101823	0.0010	Au-ICP21	VO20059808
63.00	64.00		A0101824	0.0020	Au-ICP21	VO20059808
64.00	65.00		A0101826	0.0060	Au-ICP21	VO20059808
65.00	66.00		A0101827	0.0050	Au-ICP21	VO20059808

66.00	66.70		A0101828	0.0160	Au-ICP21	VO20059808
66.70	67.70		A0101829	0.0040	Au-ICP21	VO20059808
67.70	68.30		A0101830	0.0020	Au-ICP21	VO20059808
68.30	69.00		A0101831	0.0020	Au-ICP21	VO20059808
69.00	70.00		A0101832	0.0030	Au-ICP21	VO20059808

From	To	Description
69.90	**76.60**	V3B; PO **Basalte 55°; Porphyrique** 2 dykes, fine grained, green grey rock with porphyritic feldspars up to 2 mm in size at ramdom orrientations. Unite is weakly magnetic. Sharp contacts at 55 degrees either side. Patchy epidote with weak carbonate bleaching and weak calcite.
69.90	76.60	EP01; CL01; AM01; CC01; CB01 **Épidotisation 1; Chloritisation 1; Amphibolitisation 1; Calcitisation 1; Carb** Mafic prophyritic textured unit has a lower alteration over all compared to the basalts, but has the same alteration package Ep, Cl, Amp, Ca, Cb.
69.90	76.60	PY00.5; MG00.1 **Pyrite 0.5%; Magnétite 0.1%** Fine disseminated pyrite uniform throughout the dykes. The dykes are waekly magntic.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
70.00	71.00		A0101833	0.0050	Au-ICP21	VO20059808
71.00	72.00		A0101834	0.0040	Au-ICP21	VO20059808
72.00	73.00		A0101835	0.0010	Au-ICP21	VO20059808
73.00	74.00		A0101836	0.0050	Au-ICP21	VO20059808
74.00	75.00		A0101837	0.0140	Au-ICP21	VO20059808
75.00	76.00		A0101838	0.0080	Au-ICP21	VO20059808
76.00	77.00		A0101839	0.0060	Au-ICP21	VO20059808

From	To	Description
76.60	**103.60**	V3B; AM; CO **Basalte; Amygdalaire; Coussiné** Fine grained, green grey basaltic flow with amygdules and pillows, that have been moderately to highly altered. Patchy epidote/ brown alteration (biotite, k-feldspar, garnet?) and calcite alteration is throughout the whole interval and a pervasive chlorite and amphibole alteration.
93.75	96.80	I4 **Intrusif ultramafique 25°** 2 lamprophyric dykes, one being just under a meter. Both are on a very shallow angle and are composed of polymictic fragments up to 1 cm in size. Fragmets include booklets of biotite. Pyrite is disseminated within the goundmass.
76.60	103.60	EP15; CB10; CC05; CL05; AM05; BO01 **Épidotisation 15; Carbonatisation 10; Calcitisation 5; Chloritisation 5; Amp**

From	To	Len	SampleID	Au (ppm)	Method	Certificate
77.00	78.00		A0101841	0.0100	Au-ICP21	VO20059808
78.00	79.00		A0101842	0.0050	Au-ICP21	VO20059808
79.00	80.00		A0101843	0.0040	Au-ICP21	VO20059808
80.00	81.00		A0101844	0.0060	Au-ICP21	VO20059808
81.00	82.00		A0101845	0.0080	Au-ICP21	VO20059808
82.00	83.00		A0101846	0.0050	Au-ICP21	VO20059808
83.00	84.00		A0101847	0.0030	Au-ICP21	VO20059808
84.00	85.00		A0101848	0.0440	Au-ICP21	VO20059808
85.00	86.00		A0101849	0.0370	Au-ICP21	VO20059808
86.00	87.00		A0101850	0.0080	Au-ICP21	VO20059808
87.00	88.00		A0101851	0.0200	Au-ICP21	VO20059808
88.00	89.00		A0101852	0.0130	Au-ICP21	VO20059808

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
		Epidotisation 15; Carbonatisation 10; Calcitisation 5; Chloritisation 5; Amp	89.00	90.00		A0101853	0.0170	Au-ICP21	VO20059808
		Patchy epidote/ brown alteration (biotite, k-feldspar, garnet, iron carbonate?) in veinletts and in patches. Calcite zones where it has infilled the rock most likely due to brittle deformation. Carbonate is found calcite zones as well as disseminated thorughout the rock. Chlorite and amphibole are both pervasive throughout the rock.	90.00	91.00		A0101854	0.0200	Au-ICP21	VO20059808
			91.00	92.00		A0101855	0.0370	Au-ICP21	VO20059808
			92.00	93.00		A0101857	0.0230	Au-ICP21	VO20059808
			93.00	94.00		A0101858	0.0160	Au-ICP21	VO20059808
76.60	84.35	PY00.5; MG00.1	94.00	95.00		A0101859	0.0040	Au-ICP21	VO20059808
		Pyrite 0.5%; Magnétite 0.1%	95.00	96.00		A0101860	0.0180	Au-ICP21	VO20059808
		Pyrite is finly disseminated as well are localized around calcitic zones for veins. Unit is locally magnetic.	96.00	97.00		A0101861	0.0040	Au-ICP21	VO20059808
			97.00	98.00		A0101862	0.0190	Au-ICP21	VO20059808
84.35	84.65	PY05; MG01	98.00	99.00		A0101863	0.0170	Au-ICP21	VO20059808
		Pyrite 5%; Magnétite 1%	99.00	100.00		A0101864	0.0070	Au-ICP21	VO20059808
		Local zones of up to 5% py in the brittle fracturing zones (Zone is less than 0.5 m). There is a loss of the epidote alteration over the interval, leaving Ep, Cl, Amp, Ca.	100.00	101.00		A0101865	0.0070	Au-ICP21	VO20059808
			101.00	102.00		A0101866	0.0440	Au-ICP21	VO20059808
			102.00	102.70		A0101867	0.0130	Au-ICP21	VO20059808
			102.70	103.60		A0101868	0.0030	Au-ICP21	VO20059808

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
103.60	**104.80**	I4Q	103.60	104.70		A0101869	0.0030	Au-ICP21	VO20059808
		Carbonatite 25°							
		Carbonatite dyke intruding at a low angle into basalts. it is medium to fine grained with weak hematite staining and a strong foliation running through similar to its contact angle.							
103.60	104.80	CB30; CC05; HM05							
		Carbonatisation 30; Calcitisation 5; Hématisation 5							
		Altertion of a carbonatite dyke. Light pink in colour with a moderate foliation parallel to the dyke contacts.							
103.60	104.80	PY00.1							
		Pyrite 0.1%							
		Carbonatite dyke is weakly mineralized, with the highest proportion of pyrite being found along the contacts.							
103.60	104.80	CS50 23							
		Cisaillé(e)50 23°							
		Spaced foliation running through the carbonatite dyke defined by crbonate and wall rock							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description
104.80	**109.20**	V3B; AM; CO **Basalte; Amygdalaire; Coussiné** Green grey fine grained basalt, with amygdules, possibly pillows. alteration is creating almost a pseudo breccia texture locally. Pervasive chlorite and amphibole alteration, with patchy epidote, biotite, calcite, carbonate. Pyrite is disseminated thoughout the interval with grains/ aggregates up to 0.3 mm in size.
104.80	109.20	EP10; BO05; CB05; CC05; CL05; AM05 **Épidotisation 10; Biotitisation 5; Carbonatisation 5; Calcitisation 5; Chlorit** Pervassive chlorite, amphibole alteration. Patchy epidote, biotite, calcite and brown cloured alteration (garnet, biotite, k-feldspar?) almost forming a psudo breccia locally.
104.80	109.20	PY00.5 **Pyrite 0.5%** Pyrite is dessiminated.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
104.70	105.30		A0101870	0.0020	Au-ICP21	VO20059808
105.30	106.00		A0101871	0.0040	Au-ICP21	VO20059808
106.00	107.00		A0101872	0.0060	Au-ICP21	VO20059808
107.00	108.00		A0101874	0.0120	Au-ICP21	VO20059808
108.00	109.00		A0101875	0.0280	Au-ICP21	VO20059808

From	To	Description
109.20	**110.20**	I2D **Syénite 37°** Syenite dyke with weak to moderate hematite staining and weak disseminated pyrite. Looks like there could be rip up or interlayered basalt > 10 cm. Pyrite is disseminated thougout as well as along the contacts.
109.20	110.20	CC05; CB05; HM05 **Calcitisation 5; Carbonatisation 5; Hématisation 5** Altered syenite, with pachy calcite, carbonate and a semi pervassive hemitite alteration.
109.20	110.20	PY00.5; MG00.1 **Pyrite 0.5%; Magnétite 0.1%** Pyrite is disseminated thougout as well as along the contacts. Interval is weakly magnetic.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
109.00	110.00		A0101876	0.0010	Au-ICP21	VO20059808

From	To	Description

110.20 117.20 V3B

Basalte 37°

Basalt or mafic intrusive? groundmass is dark and f.g. but alteration could be due to a mafic intrusive?

Sharp contacts, 37 degrees at the top of the interval and 105 degrees on the bottom. Contacts are defined by the alteration boundary.

Unit is strongly altered, with alteration remaining heterogeneous throught the unit. Unit is brown in colour, with areas of green alteration. The groundmass is dark and f.g. with brown and green alteration ranging from pervasive to patchy. The brown alteration could be hydrothermal garnet, biotite, k-feldspar?, and the green appears to be a secondary diopside or amphibole. The secondary diopside/ amphibole occurs in isolated aggregates as well as along the margins of carbonatite veinlets. Low amounts of specular hematite along contacts. Weak K-felspar alteration.

Carbonatite veinlets cut through the interval, they have elevated REEs. This points towards some type of alkaline alteration protolith?

110.20 117.20 I4Q

Carbonatite 15°

Irregular carbonatite veinletts cut through the interval. most at low core angles. They have sharp margins with secondary alterations. They appear to be hydrothermal in orrigin rather than intrussive due to their irregular shape and continuity.

110.20 117.20 BO; AM; CC; MG; HM; FK

Biotitisation; Amphibolitisation; Calcitisation; Magnétite; Hématisation; A

The perdominat alteration is brown, ranging from patchy to pervassive. Could be biottie, k-feldspar, hydrothermal garnet?
There is secondary amphibole or diopside that occurs as aggragets or as margins along carbonatite veinlets.
There is a network of carbonatite veinlets, irregular but at low angles to the core -> 15 degrees. These are most likley hydrothermal in orrigin.
The unit is magnetic, locally strongly magnetic.
There is weak K feldspar alteration that has a pink hemitite staining as well as trace specular hemitite along the contacts.

110.20 117.20 PYTR-1%; MG00.5; HMTR

Pyrite TR-1%; Magnétite 0.5%; HΘmatite TR

Pyrite is weakly disseminated and found in higher concentrations at the edges of biotite rich zones. The unit is magnetic with local areas of high magnatism. Local specular hemitie is found along the contact zones.

110.00	111.00	A0101877	0.0110	Au-ICP21	VO20059808
111.00	112.00	A0101878	0.0050	Au-ICP21	VO20059808
112.00	113.00	A0101879	0.0040	Au-ICP21	VO20059808
113.00	114.00	A0101880	0.0020	Au-ICP21	VO20059808
114.00	115.00	A0101881	0.0050	Au-ICP21	VO20059808
115.00	116.00	A0101882	0.0110	Au-ICP21	VO20059808
116.00	117.00	A0101883	0.0180	Au-ICP21	VO20059808

From	To	Description
117.20	**148.10**	V3B
		Basalte 105°
		Fine to medium grained basalt. Ranges from grey green to brown beige in colour. There is a sharp alteration contact with the unit at the top of the hole. As well as a sharp contact with an intrusive dyke at the bottem, there are 5 mm chill margins with the intrusive dyke. The interval has patchy epidote alteration that has been over printed with a brown beige alteration. The brown beige alteraltion become semi-pervassive over 5-30 cm intervals. This brown alteration could be biotite, hydrothermal garnet, biotite or k-feldspar? Calcite infills cracks and forms a network of veinlets. Alteration creates a pseudo brecciated texture, making it difficult to see any consistant structure. Pyrite is heterogeneously distributed througout the unit, associated with the patchy alteration areas.
117.20	148.10	BO; EP; CC; FK; CL; AM
		Biotitisation; Épidotisation; Calcitisation; Altération en feldspath potassiq
		The interval has patchy epidote alteration that has been over printed with a brow beige alteration. The brown beige alteraltion become semi-pervassive over 5-30 cm intervals. This brown alteration could be biotite, k-feldspar, hydrothermal garnet? Calcite infills cracks and forms a network of veilets. The basalt has chlorite and amphibole alteration that is being over printed.
117.20	123.30	PY00.5; MG00.5
		Pyrite 0.5%; Magnétite 0.5%
		Pyrite is associated with the heterogenious alteration. The unit is strongly magnetic.
123.30	123.80	PY1-3; MG01
		Pyrite 1-3; Magnétite 1%
		Pyrite, in aggragets as well as eueudral cubes. Is associated with pervassive calcite alteration as well as veinlets and the brown coloured alteration.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
117.00	118.00		A0101884	0.0330	Au-ICP21	VO20059808
118.00	119.00		A0101885	0.0390	Au-ICP21	VO20059808
119.00	120.00		A0101886	0.0110	Au-ICP21	VO20059808
120.00	121.00		A0101887	0.0150	Au-ICP21	VO20059808
121.00	122.00		A0101889	0.0060	Au-ICP21	VO20059808
122.00	123.00		A0101890	0.0080	Au-ICP21	VO20059808
123.00	124.00		A0101891	0.0090	Au-ICP21	VO20059808
124.00	125.00		A0101892	0.0040	Au-ICP21	VO20059808
125.00	126.00		A0101893	0.0100	Au-ICP21	VO20059808
126.00	127.00		A0101894	0.0010	Au-ICP21	VO20059808
127.00	128.00		A0101895	0.0020	Au-ICP21	VO20059808
128.00	129.00		A0101896	0.0040	Au-ICP21	VO20059808
129.00	130.00		A0101897	0.0140	Au-ICP21	VO20069201
130.00	131.00		A0101898	0.0100	Au-ICP21	VO20069201
131.00	132.00		A0101899	0.0060	Au-ICP21	VO20069201
132.00	133.00		A0101900	0.0040	Au-ICP21	VO20069201
133.00	134.00		A0101901	0.0070	Au-ICP21	VO20069201
134.00	135.00		A0101902	0.0060	Au-ICP21	VO20069201
135.00	136.00		A0101903	0.0090	Au-ICP21	VO20069201
136.00	137.00		A0101905	0.0160	Au-ICP21	VO20069201
137.00	138.00		A0101906	0.0180	Au-ICP21	VO20069201
138.00	139.00		A0101907	0.0110	Au-ICP21	VO20069201
139.00	140.00		A0101908	0.0210	Au-ICP21	VO20069201
140.00	141.00		A0101909	0.0360	Au-ICP21	VO20069201
141.00	142.00		A0101910	0.0330	Au-ICP21	VO20069201
142.00	143.00		A0101911	0.0110	Au-ICP21	VO20069201
143.00	144.00		A0101912	0.0270	Au-ICP21	VO20069201
144.00	145.00		A0101913	0.0200	Au-ICP21	VO20069201
145.00	146.00		A0101914	0.0050	Au-ICP21	VO20069201
146.00	147.00		A0101915	0.0060	Au-ICP21	VO20069201
147.00	148.10		A0101916	0.0070	Au-ICP21	VO20069201

123.80	141.00	PY00.5; MG00.5 **Pyrite 0.5%; Magnétite 0.5%** Interval has heterogeninously disstrbuted pyrite, generally associted with low angle calcite/ carbonate veinlets.	
141.00	141.50	PY1-3; MG01 **Pyrite 1-3; Magnétite 1%** 50 cm zone of increased pyrite mineralization. Assoiciated with calcite stringers and brown alteration zones. There are sharp contacts that are deffined by the pyrite content and % of calcite/ carboante.	
141.50	144.80	PY00.5; MG00.5 **Pyrite 0.5%; Magnétite 0.5%** Pyrite is disseminated thoughout the interval, contacts defined by the mineralization (pyrite content).	
144.80	145.20	PY1-3; MG00.5 **Pyrite 1-3; Magnétite 0.5%** Zone of 1-3% pyrite, contacts diffied by the brown alteration concentration. Strong brown colour alteraiton alteration, acompanied by strong calcite and moderate epidote.	
145.20	148.20	PY00.5; MG00.5 **Pyrite 0.5%; Magnétite 0.5%** Dissiminated pyrite and assoiciated with epidote veinlets. Interval is moderatly magnetic.	
120.00	124.00	CS **Cisaillé(e) 52°** Weak foliation in basalts. Spaced, defined by epidote alteration.	52

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
148.10	**149.20**	I2D **Syénite 35°** Syenite dyke. Sharp contacts at 35 degrees with 5 mm chill margins. Interval is med grained, with pink hematite staining along the edges and is beige in colour in the center. This beige colouring is most likely silicification, an increase in silica content. There is fine disseminated pyrite thoughout the sample.	148.10	149.20		A0101917	0.0030	Au-ICP21	VO20069201

148.10 149.20 CC; CB; SI

Calcitisation; Carbonatisation; Silicification

The interval has hemitite staiining the feldspars to a pink colour, as well as a silicified center 148.5-149 m. The whole unit effereces stringly.

148.20 149.30 PY00.5

Pyrite 0.5%

There is fine disseminated pyrite throughout the interval. The interval has sharp contacts and is related to the syenite dyke.

From	To	Description
149.20	**153.00**	V3B **Basalte 47°** Sharp contact at the top of the interval with the dyke. Gradational contact with the alteration change at the bottom of the interval. Unit has a fine grained, green grey colour, with patchy epidote, hydrothermal garnet/ biotite/ k-feldspar? alteration. There is calcite stringers filling fractures running predominantly at 50 degrees and up to 5 cm in width. Pyrite is disseminated thoughout the unit.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
149.20	150.00		A0101918	0.0050	Au-ICP21	VO20069201
150.00	151.00		A0101919	0.0070	Au-ICP21	VO20069201
151.00	152.00		A0101920	0.0100	Au-ICP21	VO20069201
152.00	153.00		A0101922	0.0100	Au-ICP21	VO20069201

149.20 153.00 BO; EP; CC; CL; AM

Biotitisation; Épidotisation; Calcitisation; Chloritisation; Amphibolitisation

Unit has a fine grained, green grey colour, with patchy epidote, hydrothermal garnet/ biotite/ k-feldspar? alteration. There is calcite stringers filling fractures running predominatly at 50 degrees and up to 5 cm in width.

The basalt has chlorite and amphobole alteration from regional metamorphisum.

149.30 153.00 PY00.5; MG00.5

Pyrite 0.5%; Magnétite 0.5%

Dissiminated pyrite and assoiciated with epidote veinlets.

Interval is moderatly magnetic.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description
153.00	**155.00**	V3B **Basalte** Gradational contacts on either side deffined by alteration. Unit is dark green-grey in colour with yellow alteration. The unit has been siliciified and has strong sericite alteration. Fractures have been infilled with calcite. fracturing appears more brittle, with calcite infilling 2 sets of fractures. Pyrite is finly dissiminated thoughout the interval.
153.00	155.00	SR; SI; CC; CL; AM **Séricitisation; Silicification; Calcitisation; Chloritisation; Amphibolitisation** Unit is dark green-grey in colour with yellow alteration. The unit has been siliciified and has strong sericite alteration. Fractures have been infilled with calcite. fracturing appears more brittle, with calcite infilling 2 sets of fractures.
153.00	155.00	PY1-3; MGTR **Pyrite 1-3; Magnétite TR** Interval has fine disseminated pyrite that is closly associated to silicified zone. Contacts are gradational. Interval is weakly magnetic.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
153.00	154.00		A0101923	0.0280	Au-ICP21	VO20069201
154.00	155.00		A0101924	0.0550	Au-ICP21	VO20069201

From	To	Description
155.00	**160.30**	V3B **Basalte** Gradational contact at the top of the hole defined by alteration. The contact at the bottom of the interval is sharp with syenite at 45 degrees. Unit has a fine grained, green grey colour, with patchy epidote, hydrothermal garnet/ biotite/ k-feldspar? alteration. There is calcite stringers filling fractures running predominantly at 50 degrees and up to 5 cm in width. Pyrite is disseminated thoughout the interval.
155.00	160.30	BO; EP; CC; CL; AM **Biotitisation; Épidotisation; Calcitisation; Chloritisation; Amphibolitisation** Interval is altered basalt. The top contact is gradational and the bottom contact is sharp with an intrusive at X degrees.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
155.00	156.00		A0101925	0.0600	Au-ICP21	VO20069201
156.00	157.00		A0101926	0.0270	Au-ICP21	VO20069201
157.00	158.00		A0101927	0.0160	Au-ICP21	VO20069201
158.00	159.00		A0101928	0.0080	Au-ICP21	VO20069201
159.00	160.00		A0101929	0.0470	Au-ICP21	VO20069201

Epidote and brown alteration are both patchy to semi-prevassive. Calcite is infilling fractures as well as forming up to 10 cm dykes (carbonatite?). The basalt has v.f.g. chlorite and amphobole from regional metamorphisum.

155.00 160.30 PY00.5; MGTR

Pyrite 0.5%; Magnétite TR

Dissiminated pyrite and assoiciated with epidote veinlets.

Interval is weakly magnetic.

147.00 160.30 CS; FA 34

Cisaillé(e) 34°; Fracturé(e)

Dominant structure through the area is a foliation (or fracture set) that is spaced and deffined by alteration - epidote calcite sericite.

Fracture infilled with calcite and or epidote. Low angle to the core axis (14 degrees), consistant through the unit

From	To	Description
160.30	**174.40**	V3B (I2D) **Basalte avec 5 à 25% de syénite 30°** Mixed zone of syenite and basalt. There are sharp contacts throughout this unit, the one at the top of the interval is 30 degrees and the contact at the bottom is chilled and altered but is at 142 degrees. The unit alternats between syenite and basalt every 1-3 meters. The basalt and syenit have both been highly silicified. There is abundant brittle fracturing within the basalts that has been infilled with iron carbonate and silicified. There is pervasive chlorite amphibole alteration. There are brittle fractures that cut across the syenite. These fractures have been infilled with iron carbonate and silicified. The syenite ranges from pink hemitite stained to beige, Pyrite is disseminated within both units as well as being associated in the iron carbonate filled fractures within the basalt.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
160.00	161.00		A0101930	0.0170	Au-ICP21	VO20069201
161.00	162.00		A0101931	**0.1180**	Au-ICP21	VO20069201
162.00	163.00		A0101932	**0.1120**	Au-ICP21	VO20069201
163.00	164.00		A0101933	0.0700	Au-ICP21	VO20069201
164.00	165.00		A0101934	**1.1950**	Au-ICP21	VO20069201
165.00	166.00		A0101935	**0.3050**	Au-ICP21	VO20069201
166.00	167.00		A0101937	**0.3280**	Au-ICP21	VO20069201
167.00	168.00		A0101938	**0.6090**	Au-ICP21	VO20069201
168.00	169.00		A0101939	**0.4180**	Au-ICP21	VO20069201
169.00	170.00		A0101940	**0.9960**	Au-ICP21	VO20069201
170.00	171.00		A0101941	**0.1820**	Au-ICP21	VO20069201
171.00	172.00		A0101942	**0.2640**	Au-ICP21	VO20069201
172.00	173.00		A0101943	**0.1770**	Au-ICP21	VO20069201
173.00	173.80		A0101944	**0.7020**	Au-ICP21	VO20069201
173.80	174.50		A0101945	**0.5550**	Au-ICP21	VO20069201

160.30 174.40 CB; SI; HM; CL; AM

Carbonatisation; Silicification; Hématisation; Chloritisation; Amphibolitisa

The basalt and syenit have both been fractured and infiled with iron carbonate, calcite and then silicified. There is pervasive chlorite amphibole alteration.

There are brittle fractures that cut across the syenite. These fractures have also been infilled with iron carbonate and silicified. The syenite ranges from pink hemitite stained to beige and highly carbonatized/ silicified.

160.30 174.40 PY0.5-1; MG00.5

Pyrite 0.5-1; Magnétite 0.5%

Pytite is finley dissemiated withiin the carbonate and silicified fractures. Basalt is highly magnetic.

From	To	Description
174.40	**192.00**	I2D **Syénite 51°** Contact is sharp at the top of the interval. There is a 50 cm zone of contact metamorphisum? where the basalt becomes crackel brecciated. The bottom contact ... The interval is pink in colour, ranging from medium to course grained. It has abundant fracturing that appears in a general orientation of 55 degrees and have been infilled with quartz. The quartz is smoky in colour, and has sulphide aggragets along the contacts. The interval has a weak iron carbonate alteration and moderate hemitite staining as well as thin -1mm thick stringers- of specular hemitie infilling fractures. There are sulphides aggregets of fine grained pyrite that are dissiminated thougout the syenite, and seen infilling fractures.
174.40	192.00	SI; CB; HM **Silicification; Carbonatisation; Hématisation** It has abundant fracturing that appears in a general orientation of 35 degrees and have been infilled with quartz. The quartz is smoky in colour

From	To	Len	SampleID	Au (ppm)	Method	Certificate
174.50	175.30		A0101946	**0.1930**	Au-ICP21	VO20069201
175.30	176.00		A0101947	**0.1120**	Au-ICP21	VO20069201
176.00	177.00		A0101948	**0.3980**	Au-ICP21	VO20069201
177.00	178.00		A0101949	0.0910	Au-ICP21	VO20069201
178.00	179.00		A0101950	0.0230	Au-ICP21	VO20069201
179.00	180.00		A0101951	0.0290	Au-ICP21	VO20069201
180.00	181.00		A0101953	0.0730	Au-ICP21	VO20069201
181.00	182.00		A0101954	0.0260	Au-ICP21	VO20069201
182.00	183.00		A0101955	0.0340	Au-ICP21	VO20069201
183.00	184.00		A0101956	0.0170	Au-ICP21	VO20069201
184.00	185.00		A0101957	0.0100	Au-ICP21	VO20069201
185.00	186.00		A0101958	0.0160	Au-ICP21	VO20069201
186.00	187.00		A0101959	0.0160	Au-ICP21	VO20069201
187.00	188.00		A0101960	0.0120	Au-ICP21	VO20069201
188.00	189.00		A0101961	0.0150	Au-ICP21	VO20069201
189.00	190.00		A0101962	0.0180	Au-ICP21	VO20069201
190.00	191.00		A0101963	0.0130	Au-ICP21	VO20069201
191.00	192.00		A0101964	0.0150	Au-ICP21	VO20069201

From To Description From To Len SampleID Au (ppm) Method Certificate

192.00 202.85 I2D

Syénite 68°

The contacts of this interval are sharp with the top pf the interval being 68 degrees and the bottom of the interval being, 63 degrees.

This interval has beeing strongly altered. The interval is light pink to beige in colour. It is interpreted that this interval is an altered syenit, although it could be altered mixed zone.

The interval has moderat pervasive carbonate alteration. Non pervasive calcite dykes/ infil zones. And semi pervassive sericite. Sericite defines a moderate to strong foliation thoughout the unit. V.f.g. pyrite follows the foliation. There is one set of shallow fractures that cross cut, and seem to off set by mm in scale, this does not seem to cut mineralization?. The whole unit seems to has been subsequently silicified.

Pyrite is v.f.g. and follows the foliation.

192.00 202.85 SR; SR; HM; CB; CC

Séricitisation; Séricitisation; Hématisation; Carbonatisation; Calcitisation

he interval has moderat pervasive carbonate alteration. Non pervasive calcite dykes/ infil zones.
And semi pervassive sericite. Sericite defines a moderate to strong foliation thoughout the unit. V.f.g. pyrite follows the foliation.
The whole unit seems to has been subsequently silicified.

192.00 202.85 PY0.5-2; HM00.5

Pyrite 0.5-2; HΘmatite 0.5%

V.f.g. pyrite follows the foliation that is deffined by sericite.

192.00 202.85 CS 35

Cisaillé(e) 35°

There is a spaced foliation that is deffined by sericite allingnment. This spaced foliation carries v.f.g. pyrite along the planes. This foliation is cut bya spaced fracture set infilled by calcite or sericite. This fracture set off set the foliation by mm in scale. This fracture set is also mineralized. Suggesting that there are 2 fluid events that have caused mineralization in this interval.

From	To	SampleID	Au (ppm)	Method	Certificate
192.00	193.00	A0101965	0.0270	Au-ICP21	VO20069201
193.00	194.00	A0101966	**0.1410**	Au-ICP21	VO20069201
194.00	195.00	A0101967	0.0790	Au-ICP21	VO20069201
195.00	196.00	A0101968	**1.8700**	Au-ICP21	VO20069201
196.00	197.00	A0101970	**1.2100**	Au-ICP21	VO20069201
197.00	198.00	A0101971	**0.5100**	Au-ICP21	VO20069201
198.00	199.00	A0101972	**0.2130**	Au-ICP21	VO20069201
199.00	200.00	A0101973	**0.1030**	Au-ICP21	VO20069201
200.00	201.00	A0101974	**0.1070**	Au-ICP21	VO20069201
201.00	202.00	A0101975	**0.1520**	Au-ICP21	VO20069201
202.00	203.00	A0101976	**0.5280**	Au-ICP21	VO20069201

202.85 210.90 V3B I2D

Basalte avec 25 à 50% de syénite 63°

This is a mixed unit of basalt and syenite. The contacts of this unit are sharp and are deffined by syenite. The top of the interval is at and angle of 63 degrees and the bottom is at an angle of 70 degrees.

The basalt is dark grey green in colour and has pervasive chlorite and amphibole alteration. There is fractures that have been infilled with carbonate. The basalt is begining to be altered to biotite - most likley due to the extra potassium in the system. There is some weak K-feldspar alteration, although this could be due to the mix of lithologies.
There is f.g. pyrite that is abundant proximal to the carbonate filled fractures.

The syenite has strong hemitite alteration, in the form of the pink colouring of the feldspars as well as specuar hemitite stringer veinlets. There is weak carbonate thoughout the interval as well.
F.g. pyrite is disseminated thoughout the syenite sections.

Basalt is magnetic, syenite is not.

202.85 210.90 CB; BO; HM; CL; AM; MG

Carbonatisation; Biotitisation; Hématisation; Chloritisation; Amphibolitisa

The basalt is dark grey green in colour and has pervasive chlorite and amphibole alteration. There is fractures that have been infilled with carbonate. The basalt is begining to be altered to biotite - most likley due to the extra potassium in the system. There is some weak K-feldspar alteration, although this could be due to the mix of lithologies.
There is f.g. pyrite that is abundant proximal to the carbonate filled fractures.

The syenite has strong hemitite alteration, in the form of the pink colouring of the feldspars as well as specuar hemitite stringer veinlets. There is weak carbonate thoughout the interval as well.

202.85 210.90 PY1-3; HM00.5; MG00.5

Pyrite 1-3; HΘmatite 0.5%; Magnétite 0.5%

F.g. pyrite is dissiminated as well as proximal to the carbonate filled fractures.

202.85 210.90 FA 45

Fracturé(e) 45°

Fractures are spaced and infilled with carbonate. More pronounced within the basalt.

203.00	204.00	A0101977	**1.1150**	Au-ICP21	VO20069201
204.00	205.00	A0101978	**0.4840**	Au-ICP21	VO20069201
205.00	206.00	A0101979	**0.1570**	Au-ICP21	VO20069201
206.00	207.00	A0101980	0.0840	Au-ICP21	VO20069201
207.00	208.00	A0101981	**0.2630**	Au-ICP21	VO20069201
208.00	209.00	A0101982	**0.7890**	Au-ICP21	VO20069201
209.00	210.00	A0101983	**0.1930**	Au-ICP21	VO20069201
210.00	211.00	A0101985	**0.2610**	Au-ICP21	VO20069201

From	To	Description
210.90	**236.10**	V3B **Basalte 68°** The contacts of this interval are sharp. The top of the unterval being 68 degrees and the bottom being, 50 degrees. Basalt, amygduloidal possibly pillowed flow, Gree-grey fine grained, with fracture sets cross cutting. There is pervasive chlorite alteration, patchy epidote alteration. There is aslo patchy calcite alteration associated with the epidote. There are 10 cm to 1 m zones of brown alteration in association with a semi pervasive green - hydrothermal garnet/ diopside? This is similar to the previous brown alteration seen in the hole. There is iron carbonate +/- epidote that fill the fractures. Pyrite is disseminated thougout the unit in trace amounts with locally 1-3% areas. 215 - 215.6 m there is an irregular carbonatite dyke that has 1-3% perite along the margins. 224.25 - 224.35 m there is an mineralized syenite dyke.
215.00	215.60	I4Q **Carbonatite 50°** Irregular carboatite dyke, contacts are diffuse but roughly at 50 degrees. There is an increase in pyrite mineralization - 1-3% - along the margins of this dyke
224.25	224.35	I2D **Syénite 85°** Mineralized syenite dyke. Sharp high angle contacts, 10 cm in width.
210.90	236.10	FP; CB; CC; AM; BO; CL

From	To	Len	SampleID	Au (ppm)	Method	Certificate
211.00	212.00		A0101986	0.0300	Au-ICP21	VO20069201
212.00	213.00		A0101987	0.0120	Au-ICP21	VO20069201
213.00	214.00		A0101988	0.0090	Au-ICP21	VO20069201
214.00	215.00		A0101989	**0.1100**	Au-ICP21	VO20069201
215.00	216.00		A0101990	0.0610	Au-ICP21	VO20069201
216.00	217.00		A0101991	0.0130	Au-ICP21	VO20069201
217.00	218.00		A0101992	0.0050	Au-ICP21	VO20069201
218.00	219.00		A0101993	0.0100	Au-ICP21	VO20069201
219.00	220.00		A0101994	0.0160	Au-ICP21	VO20069201
220.00	221.00		A0101995	0.0080	Au-ICP21	VO20069201
221.00	222.00		A0101996	0.0050	Au-ICP21	VO20069201
222.00	223.00		A0101997	0.0070	Au-ICP21	VO20069201
223.00	224.00		A0101998	0.0050	Au-ICP21	VO20069201
224.00	225.00		A0101999	0.0100	Au-ICP21	VO20069201
225.00	226.00		A0102001	0.0060	Au-ICP21	VO20069201
226.00	227.00		A0102002	0.0050	Au-ICP21	VO20069201
227.00	228.00		A0102003	0.0050	Au-ICP21	VO20069201
228.00	229.00		A0102004	0.0040	Au-ICP21	VO20069201
229.00	230.00		A0102005	0.0050	Au-ICP21	VO20069201
230.00	231.00		A0102006	0.0070	Au-ICP21	VO20069201
231.00	232.00		A0102007	0.0080	Au-ICP21	VO20069201
232.00	233.00		A0102009	0.0150	Au-ICP21	VO20069201
233.00	234.00		A0102010	0.0050	Au-ICP21	VO20069201
234.00	235.00		A0102011	0.0010	Au-ICP21	VO20069201
235.00	236.00		A0102012	0.0130	Au-ICP21	VO20069201

From	To	Description
236.10	**237.90**	V3B; F1 **Basalte 51°; Sulfures massifs** Semi massive sulphides. Interval has sharp contacts the top being 51 degrees and the bottom being 60 degrees deffined by the sulphide content. Pyrite mineralization is 3-10% across the section hosted in basalts. Fine grained pyrite forms agggragates.
236.10	237.90	CB; CC; CL **Carbonatisation; Calcitisation; Chloritisation** There is strong efferences in the same areas as the massive sulphides

From	To	Len	SampleID	Au (ppm)	Method	Certificate
236.00	237.10		A0102013	0.0300	Au-ICP21	VO20069201
237.10	238.00		A0102014	0.0070	Au-ICP21	VO20069201

There is a pervassve chlorite alteration acompanied by patchy carbonate/ calcite.

236.10 237.90 PY3-10; MG01

Pyrite 3-10; Magnétite 1%

Semi massive sulphides. Strongly magnetic.

From	To	Description
237.90	**242.00**	V3B **Basalte** This interval of basalt defined by alteration. The contact with the sulphide rich unit is at 60 degrees, but the contact at the bottom of the interval is gradational and deffined by the alteration. This interval is fine grained green grey in colour. There is pervassive chlorite most likley due to regional metamorphisum. There is a secondary green over prining this alteration. This is most likley secondary diopside or amphibole. The rock has a light brown colour, v.f.g. could be biotite or hydrithermal garnet? There is calcite infilling fractures. There is fine disseminated pyrite as well as pyrite infilling fractures.
241.30	241.50	I2D **Syénite 43°** Syenite dyke with sharp contacts on both the top and bottom at 43 degrees. Interval is medium to fine grained, pink in colour, weakly hemitite stained with fine disseminated pyrite.
237.90	242.00	AM; BO; CC; CL **Amphibolitisation; Biotitisation; Calcitisation; Chloritisation** This interval is fine grained green grey in colour. There is pervassive chlorite most likley due to regional metamorphisum. There is a secondary green over prining this alteration. This is most likley secondary diopside or amphibole. The rock has a light brown colour, v.f.g. could be biotite or hydrithermal garnet? There is calcite infilling fractures.
237.90	242.00	PY00.5; MG00.5 **Pyrite 0.5%; Magnétite 0.5%** Fine grained pyrite fill fractures and are siddimined througout the interval. Interval is moderatly magnetic.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
238.00	239.00		A0102015	0.0050	Au-ICP21	VO20069201
239.00	240.00		A0102016	0.0050	Au-ICP21	VO20069201
240.00	241.00		A0102017	0.0050	Au-ICP21	VO20069201
241.00	242.00		A0102018	0.0050	Au-ICP21	VO20069201

From	To	Description
242.00	**252.20**	V3B **Basalte** The contacts of this interval are diffuse and deffined by the alteration. There is patchy epidote alteration. There is a brown alteration that over prints the epidote (biotite, garnet, K-feldspar?). There is calcite infilling the fractures. Fractures are more chaotic and have a weak organization. Patchy epidote and the fracture network make for a pseudo breccia textrure. Pyrite is disseminated thoughout the unit. 244.5 - 244.6 Calcite or carbonatite dyke. 247.5 - 247.6 Calcite or carbonatite dyke.
244.50	244.60	I4Q **Carbonatite 60°** 10 cm carbonatite (or calcite?) dyke with sharp contacts on either side and weak hemitite staining.
247.50	247.60	I4Q **Carbonatite 55°** 10 cm carbonatite (or calcite?) dyke with sharp contacts on either side and weak hemitite staining.
242.00	252.20	EP; CC; BO; CL; AM **Épidotisation; Calcitisation; Biotitisation; Chloritisation; Amphibolitisation** There is patchy epidote alteration. There is a brown alteration that over prints the epidote (biotite, garnet, K-feldspar?). There is calcite infilling the fractures.
242.00	252.20	MG01; PYTR **Magnétite 1%; Pyrite TR** Interval is strongly magnetic, pyrite is v.f.g. and disseminated thouout the interval.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
242.00	243.00		A0102019	0.0060	Au-ICP21	VO20069201
243.00	244.00		A0102020	0.0110	Au-ICP21	VO20069201
244.00	245.00		A0102021	0.0040	Au-ICP21	VO20069201
245.00	246.00		A0102022	0.0080	Au-ICP21	VO20069201
246.00	247.00		A0102023	0.0130	Au-ICP21	VO20069201
247.00	248.00		A0102024	0.0100	Au-ICP21	VO20069201
248.00	249.00		A0102026	0.0090	Au-ICP21	VO20069201
249.00	250.00		A0102027	0.0170	Au-ICP21	VO20069201
250.00	251.00		A0102028	0.0190	Au-ICP21	VO20069201
251.00	252.00		A0102029	0.0420	Au-ICP21	VO20069201

From	To	Description

From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description
252.20	**260.90**	V3B **Basalte** This interval has a gradational upper cotact the is deffined by the alteration change and a harp lower contact with a carbonatite dyke. The interval is dark and fine grained. This could be highly altered high Mg basalt due to colour. It has been pervasivly altered with chlorite/ amphibole. There is patchy calcite, iron carboante alteration, bleaching the rock to look lighter in colour. There is the "brown alteration" in this interval, hydrothermal garnet/ biotite? There is a foliation that runs through the interval and it is deffined by the allingment of mm scale pyrite aggragets and the allingment if patches of calcite alteration. Unit is stongly magnetic.
252.20	260.90	CB; BO; CL; CC; AM **Carbonatisation; Biotitisation; Chloritisation; Calcitisation; Amphibolitisat** It has been pervasivly altered with chlorite/ amphibole. There is patchy calcite, iron carboante alteration, bleaching the rock to look lighter in colour. There is the "brown alteration" in this interval, hydrothermal garnet/ biotite?
252.20	262.30	PY00.5; MG01 **Pyrite 0.5%; Magnétite 1%** Pyrite is disseminated and along fractures. Interval is strongly magnetic.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
252.00	253.00		A0102030	0.0100	Au-ICP21	VO20069201
253.00	254.00		A0102031	0.0220	Au-ICP21	VO20069201
254.00	255.00		A0102032	0.0740	Au-ICP21	VO20069201
255.00	256.00		A0102033	0.0960	Au-ICP21	VO20069201
256.00	257.00		A0102034	0.0320	Au-ICP21	VO20069201
257.00	258.00		A0102035	0.0380	Au-ICP21	VO20069201
258.00	259.00		A0102036	0.0140	Au-ICP21	VO20069201
259.00	260.00		A0102037	0.0110	Au-ICP21	VO20069201
260.00	261.00		A0102038	0.0110	Au-ICP21	VO20069201

From	To	Description
260.90	**262.30**	I4Q **Carbonatite 60°** Irregular carbonatite dyke that has sharp contacts, the top if the interval being 60 degrees and the bottom being 65 degrees. There is basalt intermixed with the carbonatite unit. The contacts between the carbonatite and the basalt are irregular and are sub anngular to rounded in shape. There is hemtite staining in the carbonatite as well as within the basalt, giving a pink colour. The hemitite staining is patchy in the basalt, possibly k-feldsapr alteration? There is pyrite dissemintated within the basalt as well as along the contacts

From	To	Len	SampleID	Au (ppm)	Method	Certificate
261.00	262.00		A0102039	0.0130	Au-ICP21	VO20069201

with the carbonatite. Interval is moderatly magnetic.

260.90 262.30 CC; FK

Calcitisation; Altération en feldspath potassique

There is hemtite staining in the carbonatite as well as within the basalt, giving a pink colour.
The hemitite staining is patchy in the basalt, possibly k-feldsapr alteration?

From	To	Description
262.30	**277.90**	V3B

Basalte

Fine grained basalt, with an upper contact of 65 degrees with the carbonatite dyke and a gradational contact deffined by the sulphide content at the bottom of the interal.

Interval is fine grained, pervassivly chlorite/ amphibole altered. There is patchy epidote within breccia infill (flow top or pseud breccia?) There is also epidote alteration halos around calcite/ carbonate veinltes that have seemed to infil fractures. There is a semi-pervassive brown coloured alteration, very fine grained, and assoicated with calcite/ carboante alteration (iron carbonate?)

Pyrite is finly dessiminated and along fractures.

There are 3 aparent set of fractures in this unit. The fisrt being at 28 degrees, the next being a shallow angle of 15 degrees and a high angle of 62 degrees. The moderate and the shallow angle could be the same set? The high angle fracture set seems to have cross cut both of the shallower structures.

263.75 263.90 I4Q

Carbonatite 50°

15 cm carbonatite (or calcite?) dyke with sharp contacts on either side and weak hemitite staining.

265.65 265.80 I2D

Syénite 85°

Syenite dyke, 15 cm wide, with sharp contacts on ether side. There is an increase in pyrite mineralization along fractures within the dyke.

262.30 277.90 EP; CB; CC; BO; CL; AM

Épidotisation; Carbonatisation; Calcitisation; Biotitisation; Chloritisation;

From	To	Len	SampleID	Au (ppm)	Method	Certificate
262.00	263.00		A0102041	0.0030	Au-ICP21	VO20069201
263.00	264.00		A0102042	0.0040	Au-ICP21	VO20069201
264.00	265.00		A0102043	0.0090	Au-ICP21	VO20069201
265.00	266.00		A0102044	0.0250	Au-ICP21	VO20069201
266.00	267.00		A0102045	0.0100	Au-ICP21	VO20069201
267.00	268.00		A0102046	0.0040	Au-ICP21	VO20069201
268.00	269.00		A0102047	0.0100	Au-ICP21	VO20069213
269.00	270.00		A0102048	0.0050	Au-ICP21	VO20069213
270.00	271.00		A0102049	0.0130	Au-ICP21	VO20069213
271.00	272.00		A0102050	0.0040	Au-ICP21	VO20069213
272.00	273.00		A0102051	0.0050	Au-ICP21	VO20069213
273.00	274.00		A0102052	0.0030	Au-ICP21	VO20069213
274.00	275.00		A0102053	0.0050	Au-ICP21	VO20069213
275.00	276.00		A0102054	0.0090	Au-ICP21	VO20069213
276.00	277.00		A0102055	0.0070	Au-ICP21	VO20069213
277.00	278.00		A0102057	0.0140	Au-ICP21	VO20069213

The interval is pervassivly chlorite/ amphibole altered.
There is patchy epidote within breccia infill (flow top or pseud breccia?)
There is also epidote alteration halos around calcite/ carbonate veinltes that have seemed to infil fractures.
There is a semi-pervassive brown coloured alteration, very fine grained, and assoicated with calcite/ carboante alteration (iron carbonate?)
Iron carbonate alteration becomes pervasive 1 meter from the contact with the massive sulphides.

262.30 277.80 PYTR

Pyrite TR

Interval has fine dessiminated pyrite in trace quantitys.

252.20 277.90 FA 50

Fracturé(e) 50°

The main structures throughout all of these units is a spaced fracture set that has been variably infilled with calcite and epidote, this structue runs at 50-60 degrees.
There is a shallow structure that runs at 10 to 20 degrees and is very shallow to the core axes. There have also been variably infilled with calcite, epidote.
There is a less common fracture set that is at 28 degrees, but this and the shallow angle could be the same set?
The high angle fracture set seems to have cross cut both of the shallower structures.

From	To	Description
277.90	**279.90**	V3B; F1
		Basalte; Sulfures massifs
		The contacts for this unit are diffuse and deffined by pyrite content. Could be a sediment? XRF showed increased silica (37%) and increased aluminium (15%). Semi massive sulphides hosted in basalts. The pyrite content ranges from 3-40% throughout the interval. The sulphides form 5-10 cm zones of semi-massive sulphide with basalt and sulphide agraggests. There a general trend to the sulphides, as they seem to follow the main foliation at 50-60 degrees. Interval is stongly magnetic. The interval is prevassivly carbonate and chlorite altered with calcite veinlets infilling fractures.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
278.00	279.00		A0102058	0.0970	Au-ICP21	VO20069213
279.00	280.00		A0102059	0.0330	Au-ICP21	VO20069213

277.90 279.90 CB; CC

Carbonatisation; Calcitisation

Carbonate and calcite are both associated with the massive sulphides.

277.80 279.90 PY2-40

Pyrite 2-40

Semi- massive sulphides, mostly pyrite.
XRF showed anoomalous copper -> 600 and zinc -> 150

277.90 279.90 CS 65

Cisaillé(e) 65°

Foliation is deffined by the allingment of calcite and sulphides. Massive sulphide sections also follow this orientation.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
279.90	**287.00**	V3B	280.00	281.00		A0102060	0.0570	Au-ICP21	VO20069213
		Basalte	281.00	282.00		A0102061	0.0220	Au-ICP21	VO20069213
		Contacts for this unit are gradational and deffined by the alteration.	282.00	283.00		A0102062	0.0580	Au-ICP21	VO20069213
			283.00	284.00		A0102063	0.0020	Au-ICP21	VO20069213
		The interval is beige in colour and has been bleached from the iron carbonate content. The iron carbonate is semi pervassive. There arw 10-20 cm zones of highly fractured black basalt that has patchy alteration (high Mg basalt?). The interval has been silicified with dark smokey quartz zones. Calcite infils fractures.	284.00	285.00		A0102064	0.0080	Au-ICP21	VO20069213
			285.00	286.00		A0102065	0.0150	Au-ICP21	VO20069213
			286.00	287.00		A0102066	0.0070	Au-ICP21	VO20069213
		It is difficut to make out any consistant structure in this zone as the alteration is creating a pseudo brecciated textrue.							
		There is disseminated pyrite, as well as pyrite infilling fractures.							

279.90 287.00 SI; CB; CC; CL

Silicification; Carbonatisation; Calcitisation; Chloritisation

The interval is beige in colour and has been bleached from the iron carbonate content. The iron carbonate is semi pervassive.
The interval has been silicified with dark smokey quartz zones.
Calcite infils fractures.

279.90 287.00 PY1-3

Pyrite 1-3

Pyrite disseminated and infilling fractures.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

287.00 **292.30** V3B

Basalte

Contacts are diffuse, are deffined by the change in alteration and follow the foliation. The top contact is difficult to make out the foliation due to the increased quartz content. The bottom contact follows the foliation at 65 degrees.

The unit is altered basalts. The XRF showed variable Mg content throughout the unit, up to 5%. This zone could be transitioning into high Mg basalts/ ultramafics. There is also fine grained bark zones, at a low angle with gabbroic basalts, fine graiend rock with 1-2 mm patches of plageoclase. There are no flow structures present.

This interval is strongly chloritized?, with the green micatious mineral folling the low angle fracturing (almphibole (actinolite)/ diopside? associated) There is fine grained pyrite that follows the structures. The unit has been semi-prevasivly carbonate altered and has calcite infilling fractures. Pyrite is also assoicated within the calcitic infill zones.

287.00 292.30 AM; CL; CB; CC; EP

Amphibolitisation; Chloritisation; Carbonatisation; Calcitisation; Épidotisa

This interval is pervasivly chlorotized,
With the green soft mineral folling the fracturing (almphibole/ diopside? associated)
The unit has been semi-prevasivly carbonate altered and has calcite infilling fractures.
Along calcitic fractures there is weak epidote alteration forming 5 mm halos around veins.

287.00 292.30 PY0.5-1; MG00.5

Pyrite 0.5-1; Magnétite 0.5%

Pyrite is disseminated as well as associated with the low angle structures.

287.00 292.30 FA 25

Fracturé(e) 25°

Low angle fractures are deffined by chlorite allingment, not a pervasive foliation therfore it is still catogorized as a fracture set.

There is a second fracture set at 40 degrees. This fracture set is spaced and deffined by diopside/ amphibole (actinolite)? rimied by calcite.

From	To	SampleID	Au (ppm)	Method	Certificate
287.00	288.00	A0102067	0.0050	Au-ICP21	VO20069213
288.00	289.00	A0102068	0.0060	Au-ICP21	VO20069213
289.00	290.00	A0102069	0.0070	Au-ICP21	VO20069213
290.00	291.00	A0102070	0.0210	Au-ICP21	VO20069213
291.00	292.00	A0102071	0.0200	Au-ICP21	VO20069213

From **To** **Description** **From** **To** **Len** **SampleID** **Au (ppm)** **Method** **Certificate**

From	To	Description
292.30	**294.60**	V3B **Basalte** Contacts of this interval are diffuse and follow the general form of the foliation. The top contact being 65 degrees and the bottom being closer to 90. This interval is strongly carboantzed (iron carb), giving the interval a beige colouring. The carbonate alteration is semi-prevassive with a micro psudo brecciated textrue. There actinolite alteration, fine grained with local needled texture. There is possible K-feldspar alteration as there are local pink patches, this is not a prevasive alteration. The interval appears massive with a very weak foliation at 40 degrees, potetially being offset. There is v.f.g. pyrite mineralization that is associated with the iron carbonate alteration zones.
292.30	294.60	CB; AM; FK **Carbonatisation; Amphibolitisation; Altération en feldspath potassique** This interval is strongly carboantzed (iron carb), giving the interval a beige colouring. The carbonate alteration is semi-prevassive with a micro psudo brecciated textrue. There actinolite alteration, fine grained with local needled texture. There is possible K-feldspar alteration as there are local pink patches, this is not a prevasive alteration.
292.30	294.60	PY1-3 **Pyrite 1-3** Interval has v.f.g. pyrite mineralization associated with the semi-pervassive iron carbonate alteration.
292.30	294.60	FA 40 **Fracturé(e) 40°** Spaced fractures run at 35-40 degrees and appar to be off set by up to 5 mm at an angle parallel to the core axis. Structures are dfficult to determine due to the intense alteration.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
292.00	293.00		A0102072	0.0110	Au-ICP21	VO20069213
293.00	294.00		A0102074	0.0020	Au-ICP21	VO20069213
294.00	295.00		A0102075	0.0040	Au-ICP21	VO20069213

294.60 321.80 V3B; GM

Basalte; Grains moyens

Contacts of this interval are diffuse and defined by the alteration.

This interval is moderalty altered basalt to gabbroic basalt, most likely somewhere in the middle of the flow. There are 10-20 cm sections of brecciated zones (could be flow tops?). grain size ranges from v.f.g to m.g. and it heterogeniously distributed.

There is semi- prevassive actinolite (chlorite, diopside?) alteration, found v.f.g infilling fractures as well as weakly prevasive thougout the interval.This creates a pseudo brecciated texture, that is most likely a replacement texture. In areas of courcer texture, there is an increase in epidote alteration, found infilling fractures. Carbonate alteration is semi prevassive and is found riming the actinolite alteration. There is weak K-feldspar alteration (finitization?) OR small - cm scale - syenite injections? There is also a brown alteration, this could fill be K-feldspar or biotite, garnet?

Pyrtie assoicated with carbonate and K-feldspar alteration.

307.9 - 308.3 -> Alteration or syenite injection (leaning to alteration) with an increase in pyrite to 1-3%
308.6 - 309.75 -> zone of increased pyrite mineralization 1-3%
312.25 - 312.70 -> Alteration or syenite injection (leaning to alteration) with an increase in pyrite to 0.5-1%

307.90 308.30 V3B

Basalte 70°

Altered basalt along a foliation plane. There are semi sharp, irregular contacts at around 70 degrees.

The interval is pink to grey in colour with patchy pink brown alteration. This could be K-feldspar alteration (finitization?) or they could be altered syenite injections? Leaning towards the alteration explination. There is semi prevassive carboante alteration, as well as calcite infilling fractures.

There is an increase in disseminated pyrite to 1-3%

295.00	296.00	A0102076	0.0100	Au-ICP21	VO20069213
296.00	297.00	A0102077	0.0110	Au-ICP21	VO20069213
297.00	298.00	A0102078	0.0010	Au-ICP21	VO20069213
298.00	299.00	A0102079	0.0300	Au-ICP21	VO20069213
299.00	300.00	A0102080	0.0150	Au-ICP21	VO20069213
300.00	301.00	A0102081	0.0040	Au-ICP21	VO20069213
301.00	302.00	A0102082	0.0110	Au-ICP21	VO20069213
302.00	303.00	A0102083	0.0050	Au-ICP21	VO20069213
303.00	304.00	A0102084	0.0050	Au-ICP21	VO20069213
304.00	305.00	A0102085	0.0200	Au-ICP21	VO20069213
305.00	306.00	A0102086	0.0090	Au-ICP21	VO20069213
306.00	307.00	A0102087	0.0020	Au-ICP21	VO20069213
307.00	308.00	A0102089	0.0020	Au-ICP21	VO20069213
308.00	309.00	A0102090	0.0210	Au-ICP21	VO20069213
309.00	310.00	A0102091	0.0110	Au-ICP21	VO20069213
310.00	311.00	A0102092	0.0010	Au-ICP21	VO20069213
311.00	312.00	A0102093	0.0030	Au-ICP21	VO20069213
312.00	313.00	A0102094	0.0060	Au-ICP21	VO20069213
313.00	314.00	A0102095	0.0040	Au-ICP21	VO20069213
314.00	315.00	A0102096	0.0030	Au-ICP21	VO20069213
315.00	316.00	A0102097	0.0010	Au-ICP21	VO20069213
316.00	317.00	A0102098	0.0030	Au-ICP21	VO20069213
317.00	318.00	A0102099	0.0010	Au-ICP21	VO20069213
318.00	319.00	A0102100	0.0040	Au-ICP21	VO20069213
319.00	320.00	A0102101	0.0010	Au-ICP21	VO20069213
320.00	321.00	A0102102	0.0510	Au-ICP21	VO20069213
321.00	322.00	A0102103	0.0180	Au-ICP21	VO20069213

312.25 312.70 V3B

Basalte

Altered basalt along a foliation plane. There are semi sharp, irregular contacts at around 70 degrees.

The interval is pink to grey in colour with patchy pink brown alteration. This could be K-feldspar alteration (finitization?) or they could be altered syenite injections? Leaning towards the alteration explination. There is semi prevassive carboante alteration, as well as calcite infilling fractures.

There is an increase in disseminated pyrite to 0.5-1%

294.60 321.80 AM; CB; FK; EP; HM

Amphibolitisation; Carbonatisation; Altération en feldspath potassique; É

There is semi- prevassive actinolite (chlorite, diopside?) alteration, found v.f.g infilling fractures as well as weakly prevasive thougout the interval.This creates a pseudo brecciated texture, that is most likely a replacement texture.
In areas of courcer texture, there is an increase in epidote alteration, found infilling fractures.
Carbonate alteration is semi prevassive and is found riming the actinolite alteration.
There is weak K-feldspar alteration (finitization?) OR small - cm scale - syenite injections? There is also a brown alteration, this could fill be K-feldspar or biotite, garnet?

294.60 307.90 PY0.5-1; MG00.5

Pyrite 0.5-1; Magnétite 0.5%

Pyrite is disseminated as well as infilling fractures.

307.90 308.30 PY1-3; MG00.5

Pyrite 1-3; Magnétite 0.5%

Pyrite is finley disseminated ans assoiciated with carbonate and K-feldspar. Interval is weakly magnetic.

308.30 308.60 PY00.5; MG00.5

Pyrite 0.5%; Magnétite 0.5%

Pyrite is finley disseminated, interval is moderalty magnetic.

308.60 309.75 PY1-3; MG00.5

Pyrite 1-3; Magnétite 0.5%

Pyrite is finley disseminated, found in assoication with carbonate and brown (K-feldspar, biotite?) alteration.

Interval is moderalty magnetic.

309.75 320.50 PY00.5

Pyrite 0.5%

Fine disseminated pyrite.

320.50 321.80 PY1-5; MG01

Pyrite 1-5; Magnétite 1%

Pyrite forming agragates 1 cm in size, assoicated with carbonaite/ calcite alteration.

Interval is highly magnetic.

294.60 321.80 FA 38

Fracturé(e) 38°

Fractures are errctic thoughout this interval, but the only consistant orrientation is 30-40 degrees. This erradic nature could be due to the relacement textrues, as well as the courcer grained zones.

From	To	Description
321.80	**323.80**	V3B
		Basalte
		The contacts of this interval are gradational and deffined by the alteration.
		This interval has an increase in semi-pervassive iron carbonate alteration, coupled with K-feldsapr alteration (finitization). There are fractures that have been infilled with carbonate/ calcite.
		There is no prevasive structures thouout this interval, but there is spaced fractures. There are 2 sets of spaced fractures, one at roughly 30 degrees being sharply cut by one at roughly 70 degrees and displaced up to 1 cm in distance.
		Pyrite is disseminated and forming agraggets up to 7 mm in size. There is a prismatic black, non magnetic, mineral that is associated with this pyrite mineralization. Titanite? XRF had anomolous levels of Ti (4000-5000 ppm) and calcium.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
322.00	323.00		A0102105	0.0060	Au-ICP21	VO20069213
323.00	324.00		A0102106	0.0060	Au-ICP21	VO20069213

321.80 323.80 CB; FK; BO; CC

Carbonatisation; Altération en feldspath potassique; Biotitisation; Calcitis

This interval has an increase in semi-pervassive iron carbonate alteration
There is a pink ting to the rock with fine grained patchy zones of pink/brown colour, K-feldsapr alteration (finitization) or biotite?
There are fractures that have been infilled with carbonate/ calcite.

321.80 323.80 PY00.5

Pyrite 0.5%

There is disseminated pyrite as well as 7 mm agragates.

There is a prismatic black, non magnetic, mineral that is associated with this pyrite mineralization. Titanite? XRF had anomolous levels of Ti (4000-5000 ppm) and calcium.

321.80 323.80 FA 70

Fracturé(e) 70°

There is no prevasive structures thouout this interval, but there is spaced fractures.

There are 2 sets of spaced fractures, one at roughly 30 degrees being sharply cut by one at roughly 70 degrees and displaced up to 1 cm in distance.

The higher core angle fracture is the most prevalent.

From	To	Description
323.80	**344.45**	V3B; GM **Basalte; Grains moyens** Contacts of this interval are diffuse/ gradational and are deffined by alteration. This interval is of altered basalt to gabbroic basalt with areas of courcer texture. The rock has been semi-prevassivly iron carbonate altered. Epidote alteration is infilling fractures and patchy within courcer texture zones. K-feldspar (finitization) (or biotite alteration?) gives the rock a patchy pink/brown colouring. These zones are typically associated with very fine grained pyrite mineralization and are less than 1 meter. There is weak actinolite (diopsaide? chlorite?) in patchy zones thoughout the unit. Calcite infils fractures but is also prevassive within finitized zones. There is erratic fracturing thoughout this interval, but there are 2 that are semi consistant. One at 51 degrees and the other at 18 degrees. Both are spaced fracture sets and both have been infilled with calcite/ carbonate alteration +/- epidote. Pyrite is finly disseminated thougout the interval and found as aggragets in fractures, with zones of increased pyrite, 338.7 - 339.1 - v.f.g. pyrite disseminated within a K-feldspar zone 1-3% 342.7 - 343.0 - pyrite aggragets proximal to hemitite stained vein (1 cm syenite injection?) 1-3%

From	To	Len	SampleID	Au (ppm)	Method	Certificate
324.00	325.00		A0102107	0.0030	Au-ICP21	VO20069213
325.00	326.00		A0102108	0.0190	Au-ICP21	VO20069213
326.00	327.00		A0102109	0.0260	Au-ICP21	VO20069213
327.00	328.00		A0102110	0.0340	Au-ICP21	VO20069213
328.00	329.00		A0102111	0.0260	Au-ICP21	VO20069213
329.00	330.00		A0102112	0.0040	Au-ICP21	VO20069213
330.00	331.00		A0102113	0.0020	Au-ICP21	VO20069213
331.00	332.00		A0102114	0.0910	Au-ICP21	VO20069213
332.00	333.00		A0102115	0.0150	Au-ICP21	VO20069213
333.00	334.00		A0102116	0.0080	Au-ICP21	VO20069213
334.00	335.00		A0102117	0.0130	Au-ICP21	VO20069213
335.00	336.00		A0102118	0.0190	Au-ICP21	VO20069213
336.00	337.00		A0102119	0.0070	Au-ICP21	VO20069213
337.00	338.00		A0102120	0.0090	Au-ICP21	VO20069213
338.00	339.00		A0102122	0.0800	Au-ICP21	VO20069213
339.00	340.00		A0102123	0.0100	Au-ICP21	VO20069213
340.00	341.00		A0102124	0.0030	Au-ICP21	VO20069213
341.00	342.00		A0102125	0.0040	Au-ICP21	VO20069213
342.00	343.00		A0102126	0.0370	Au-ICP21	VO20069213
343.00	344.00		A0102127	0.0040	Au-ICP21	VO20069213

343.6 - 344.1 - pyrite aggragets following both high and low angle structures, 1-3%

338.70 339.10 V3B

Basalte 60°

Altered basalt, there are semi sharp, irregular contacts at around 60 degrees.

The interval is pink to grey in colour with patchy pink brown alteration. This could be K-feldspar alteration (finitization?) or they could be altered syenite injections? Leaning towards the alteration explination. There is semi prevassive carboante alteration, as well as calcite infilling fractures.

There is an increase in disseminated pyrite to 1-3%

323.80 344.45 CB; FK; EP; AM; HM

Carbonatisation; Altération en feldspath potassique; Épidotisation; Amph

The rock has been semi-prevassivly iron carbonate altered.
Epidote alteration is infilling fractures and patchy within courcer texture zones.
K-feldspar (finitization) (or biotite alteration?) gives the rock a patchy pink/brown colouring. These zones are typically associated with very fine grained pyrite mineralization and are less than 1 meter. There is weak actinolite (diopsaide? chlorite?) in patchy zones thoughout the interval.
Calcite infils fractures but is also prevassive within finitized zones.

323.80 338.70 PY00.5; MGTR

Pyrite 0.5%; Magnétite TR

Pyrite is finly disseminated and locally found infilling fractures. Interval is weakly magnetic

338.70 339.10 PY1-3; MG00.5

Pyrite 1-3; Magnétite 0.5%

Very finley disseminated pyrite in K-feldsapr altered zone. Interval is moderatly magnetic.

339.10 342.70 PY0.5-1; MG00.5

Pyrite 0.5-1; Magnétite 0.5%

Pyrite is disseminated and up to 3 mm in size. Interval is moderatly magnetic.

342.70 343.00 PY1-3; MG01

Pyrite 1-3; Magnétite 1%

Pyrite aggragets proximal to hemitite stained vein (1 cm syenite injection?). Interval is strongly magnetic.

343.00 343.60 PY00.5; MG00.5

Pyrite 0.5%; Magnétite 0.5%

Disseminated pyrite, moderatly magnetic.

343.60 344.10 PY1-3; MG01

Pyrite 1-3; Magnétite 1%

Pyrite aggragets following both high and low angle structures, Interval is stongly magnetic

344.10 344.45 PY00.5; MG01

Pyrite 0.5%; Magnétite 1%

Disseminated pyrite, highly magnetic.

323.80 344.45 FA; FA 51

Fracturé(e) 51°; Fracturé(e)

There is erratic fracturing thoughout this interval, but there are 2 that are semi consistant. One at 51 degrees and the other at 18 degrees. Both are spaced fracture sets and both have been infilled with calcite/ carbonate alteration +/- epidote.

From	To	Description
344.45	**347.40**	V3B
		Basalte
		Contacts for this unit are diffuse/ gradational and deffined by the alteration. Interval is in altered basalt. There are semi prevassive zones of K-feldspar alteration giving the rock a pink tinge. There are also zones of strong iron carbonate alteration. There are mixed zones with blocky K feldspars and carbonates. In these zones there is a marked increase in large (up to 7 mm) pyrite cubes. Both of these alterations seem to be over printing an actinolite (or diopsaie or chlorite?) alteration. The amphibole alteration is inflling fractures giving a pseudo brecciated texture. There is chaotic fracturing with a single common set at 40 degrees. Pyrite is large (up to 7 mm) in size and directly associated with the K-feldspar and carbonate alteration.

344.45 347.40 CB; FK; AM; CC; CL; HM

Carbonatisation; Altération en feldspath potassique; Amphibolitisation; C

There are semi prevassive zones of K-feldspar alteration giving the rock a pink tinge.
There are also zones of strong iron carbonate alteration. There are mixed zones with blocky K feldspars and carbonates.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
344.00	345.00		A0102128	0.0030	Au-ICP21	VO20069213
345.00	346.00		A0102129	0.0060	Au-ICP21	VO20069213
346.00	347.00		A0102130	0.0150	Au-ICP21	VO20069213

Both of these alterations seem to be over printing an actinolite (or diopsaie or chlorite?) alteration. The amphibole alteration is inflling fractures giving a pseudo brecciated texture.

344.45 347.40 PY1-3; MG01

Pyrite 1-3; Magnétite 1%

Blocky pyrite up to 7 mm in size, associated with K-feldspar and carbonate alteration. Interval is stongly magnetic.

344.45 347.40 FA 40

Fracturé(e) 40°

There is chaotic fracturing with a single common set at 40 degrees. Spaced fracture set infilled with calcite.

From	To	Description
347.40	**350.15**	V3B
		Basalte
		The upper contact in this interval is diffuse/ gradational, and the bottom contact of this interval is sharp and at an angle of 29 degrees. This is a basalt interval that has been altered with semi prevassive actinolite (diopside, chlorite?) that has infilled fracturs and begin to propogate outwards in a replacement texture style. There are local veins that are rimed with pink k-feldspar? There is patchy local epidote alteraion. There is semi prevassive carbonate alteration. Calcite filling fractures. There is trace to 0.5% disseminated pyrite. There is a single consistant space fracture at 32 degrees.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
347.00	348.00		A0102131	0.0080	Au-ICP21	VO20069213
348.00	349.00		A0102132	0.0120	Au-ICP21	VO20069213
349.00	350.00		A0102133	0.0190	Au-ICP21	VO20069213

347.40 350.15 AM; FK; EP; CB; CC

Amphibolitisation; Altération en feldspath potassique; Épidotisation; Car

Semi prevassive actinolite (diopside, chlorite?) that has infilled fracturs and begin to propogate outwards in a replacement texture style.
There are local veins that are rimed with pink k-feldspar?
There is patchy local epidote alteraion.
There is semi prevassive carbonate alteration.
Calcite filling fractures.

347.40 350.15 PY00.5; MG01

Pyrite 0.5%; Magnétite 1%

Disseminated pyrite, stongly magnetic.

347.40 350.15 FA 32

Fracturé(e) 32°

Fracture(s) 32°

There is a single consistant space fracture at 32 degrees. These have been infilled with calcite/ carbonate and locally have been rimed with a pink kfeldspar?

From	To	Description
350.15	368.20	V3B; BX **Basalte 29°; Brèche** Interval has sharp upper and lower contacts, the upper being at 29 degrees and the lower being at 45 degrees. Basat? This could be a mix zone of basalt and syenite that is highly deformed. Textrues range from porphyritic to brecciated. This intervals is heterogenious in alteration and texture, to areas with pockets of the unaltered (or weakly altered) rock still visible to almost completly altered. The brecciation seems hydrothermal in nature and the fragments have not rotated or moved far from their orriginal orrientation - crackle breccia. Fragments are angluar to sub rounded and range form 5 mm to 10 cm in size. There appaers to be multiple generations of brecciation? In most localities there is wall rock fracments and a carbonate matrix, but locally there is carbonate altered fragments with a dark v.f.g. silicified? matrix. The back ground alteration within this zone is chlorite magnatite giving the rock a very dar colour. Actinolite inflls a fracture network and begins to replace the wall rock. There are zones of a more porphyritc texture that are up to 5 mm aggragets of plageoclase? Carboante? (primary or alteration realted?). There are patchy zones of hemitite alteration, could be k-feldspar (finitization)? or syenite injections? This is a zone where it could be mixed and highly altered. Carbonate is the strongest alteration within this interval, forming the matriz of the brecciated zone (see previous paragraph). There has been a silicification of the whole interval, creating a very hard rock over all. There is a fine grained yellow alteration overprinting the system, leucoxene? There is disseminated, euhedral, equant, black (potentially masses of v.f.g. material) magnetic - probably magnatite. The whole interval is strongly magnetic. There is disseminated pyrite as well as pyrite as well as within the breccia matrix.
350.15	368.20	CB; SI; FK; AM; LX **Carbonatisation; Silicification; Altération en feldspath potassique; Amphi** The back ground alteration within this zone is chlorite magnatite giving the rock a very dar colour. Actinolite inflls a fracture network and begins to replace the wall rock.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
350.00	351.00		A0102134	0.0090	Au-ICP21	VO20069213
351.00	352.00		A0102135	0.0060	Au-ICP21	VO20069213
352.00	353.00		A0102137	0.0060	Au-ICP21	VO20069213
353.00	354.00		A0102138	0.0050	Au-ICP21	VO20069213
354.00	355.00		A0102139	0.0050	Au-ICP21	VO20069213
355.00	356.00		A0102140	0.0070	Au-ICP21	VO20069213
356.00	357.00		A0102141	0.0320	Au-ICP21	VO20069213
357.00	358.00		A0102142	0.0080	Au-ICP21	VO20069213
358.00	359.00		A0102143	0.0040	Au-ICP21	VO20069213
359.00	360.00		A0102144	0.0080	Au-ICP21	VO20069213
360.00	361.00		A0102145	0.0060	Au-ICP21	VO20069213
361.00	362.00		A0102146	0.0040	Au-ICP21	VO20069213
362.00	363.00		A0102147	0.0030	Au-ICP21	VO20069213
363.00	364.00		A0102148	0.0070	Au-ICP21	VO20069213
364.00	365.00		A0102149	0.0210	Au-ICP21	VO20069213
365.00	366.00		A0102150	0.0350	Au-ICP21	VO20069213
366.00	367.00		A0102151	0.0370	Au-ICP21	VO20069213
367.00	368.00		A0102153	0.0100	Au-ICP21	VO20069213

There are zones of a more porphyritc texture that are up to 5 mm aggragets of plageoclase? Carboante? (primary or alteration realted?).
There are patchy zones of hemitite alteration, could be k-feldspar (finitization)? or syenite injections? This is a zone where it could be mixed and highly altered.
Carbonate is the strongest alteration within this interval, forming the matriz of the brecciated zone (see previous paragraph).
There has been a silicification of the whole interval, creating a very hard rock over all.
There is a fine grained yellow alteration overprinting the system, leucoxene?

350.15 368.20 PY0.5-1; MG01

Pyrite 0.5-1; Magnétite 1%

There is disseminated, euhedral, equant, black (potentially masses of v.f.g. material) magnetic - probably magnatite. The whole interval is strongly magnetic. There is disseminated pyrite as well as pyrite as well as within the breccia matrix.

350.15 368.20 BX

Bréchique

This could be a mix zone of basalt and syenite that is highly deformed. Textrues range from porphyritic to brecciated. This intervals is heterogenious in alteration and texture, to areas with pockets of the unaltered (or weakly altered) rock still visible to almost completly altered. The brecciation seems hydrothermal in nature and the fragments have not rotated or moved far from their orriginal orrientation - crackle breccia. Fragments are angluar to sub rounded and range form 5 mm to 10 cm in size.
There appaers to be multiple generations of brecciation? In most localities there is wall rock fracments and a carbonate matrix, but locally there is carbonate altered fragments with a dark v.f.g. silicified? matrix.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
368.20	**368.80**	V3B **Basalte** Contacts of this unit are sharp, the top contact with the brecciated zone being at 55 degrees and the bottom contact with the syenit dyke at 40 degrees. The reason this interval was broken out was the intensity of the foliation. There is an increase in folation intensity at the end of the brecciated interval, but this basalt interval is strongly foliated with sharp contacts.	368.00	368.80		A0102154	0.0380	Au-ICP21	VO20069213

The interval is very dark basalt (V4?) with carbonate and actinolite infilling fractures. Both of these alteration are non pervasive. Interval is weakly magnetic.

There are 2 distinct structures within the interval. There is a spaced foliation that is deffined by carbonate and actinolite. Cross cut by a second spaced fracture set also deffined by carbonante that is seen rotating the previous structure. This is most likely a brittle ductile zone where after initial fracturing, the fabrics were able to rotate rather than offset.

368.20 368.80 CB; AM; CL

Carbonatisation; Amphibolitisation; Chloritisation

Carbonate and actinolite infilling fractures. Both of these alteration are non pervasive.
There is most likley a prevassive chlorite alteration of the hoste rock.

368.20 368.80 CS 55

Cisaillé(e) 55°

There are 2 distinct structures within the interval. There is a spaced foliation that is deffined by carbonate and actinolite. Cross cut by a second spaced fracture (24 degrees) set also deffined by carbonante that is seen rotating the previous structure.

This is most likely a brittle ductile zone where after initial fracturing, the fabrics were able to rotate rather than offset.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
368.80	**369.85**	I2D **Syénite 40°** Syenite dyke with sharp contacts on both top and bottom. The top contact is at 40 degrees and the bottom is at 55 degrees. Pink in colour with discontinuous veins? of serice and chlorte altered material? The interval is mostly homoginazed, medium to cource grained. There is a semi prevassive iron carbonate alteration as well as carbonate infilling small > 5 mm fractures. There is hemitite alteration that gives the pink colour. There are low angle veins that have magnatite and pyrite associated with them, there is no disseminated magantite (interval over all is not magnetic).	368.80	369.80		A0102155	0.0400	Au-ICP21	VO20069213

368.80 369.85 HM; CB; SR

Hématisation; Carbonatisation; Séricitisation

Serice and chlorte altered material in the form of trunchated veins or xenoliths?
There is a semi prevassive iron carbonate alteration as well as carbonate infilling small > 5 mm fractures.
There is hemitite alteration that gives the pink colour.

368.20 369.85 PYTR; MGTR

Pyrite TR; Magnétite TR

Interval has very fine disseminated pyrite that is located along the edges of carbonate veinlets.
Interval is weakly magnetic.

368.80 369.85 FA 35

Fracturé(e) 35°

Fracture set is defined by chlorite/ serice truchated zones that are spaced but follow a orgsnized orrientation.

From	To	Description
369.85	**380.10**	V3B **Basalte 55°** Contacts of this interval are sharp with syenite on either side of it. The top contact is at 55 degrees and the bottom is at 90 degrees. Dark, grey-green basalt, potentially high Mg basalt? This interval has been altered prevassily with chlorite. There have been fractures that have been infilled with actiniolite (diopside, chlorite?) There has been a semi-pervassive carbonate alteration of this interval with carbonate/ calcite rimming the actinolite filled fractures. Weak epidote also infills fractures. There are veinlets > 5 mm in width, of red/ brown alteration, K-Feldspar, syenite injections? There are zones of brittle micro (1 mm) tention gashes infilled with calcite/ carbonate and weak epidote. These zones have vrey fine disseminated sulphides associated with them.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
369.80	370.90		A0102156	0.0370	Au-ICP21	VO20069213
370.90	372.00		A0102157	0.0140	Au-ICP21	VO20069213
372.00	373.00		A0102158	0.0200	Au-ICP21	VO20069213
373.00	374.00		A0102159	0.0200	Au-ICP21	VO20069213
374.00	375.00		A0102160	0.0360	Au-ICP21	VO20069213
375.00	376.00		A0102161	0.0320	Au-ICP21	VO20069213
376.00	377.00		A0102162	0.0050	Au-ICP21	VO20069213
377.00	378.00		A0102163	0.0120	Au-ICP21	VO20069213
378.00	379.00		A0102164	0.0160	Au-ICP21	VO20069213
379.00	380.10		A0102165	0.0070	Au-ICP21	VO20069213

369.85 380.10 AM; CB; CL; FK; EP

Amphibolitisation; Carbonatisation; Chloritisation; Altération en feldspat

This interval has been altered prevassily with chlorite.
There have been fractures that have been infilled with actiniolite (diopside, chlorite?)
There has been a semi-pervassive carbonate alteration of this interval with carbonate/ calcite rimming the actinolite filled fractures.

Weak epidote also infills fractures.
There are veinlets > 5 mm in width, of red/ brown alteration, K-Feldspar, syenite injections?

369.85 380.10 PYTR-0.5; MG00.5

Pyrite TR-0.5; Magnétite 0.5%

Fine disseminated pyrite, increase of pyrite towards the bottom contact with the syenite.
Interval is moderatly magnetic.

From	To	Description
380.10	**387.40**	I2D; GM **Syénite; Grains moyens** Contacts of this interval are sharp with the top contact at 90 degrees and the bottom at X degrees. Syenite is medium grained, pink in colour. This is potentially a mixed zone, as there are xenoliths of the previous brittly fractured basalt included within the syenite. The syenite its self is fairly homogenious, with fractures that have been infilled with quartz carbonate. It is medium grained. There is sericite or chlorite begining to alling inot a weak foliation though the interval. There is a pervasive carbonate alteration. The feldspars proximal to the contacts seem to have a greenish tinge to them, almost appaering porphyritic, could be carbonate grains? There is fine disseminated pyrite that is located along the edges of the feldspar grains as well as infilling local fractures.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
380.10	381.00		A0102166	0.0080	Au-ICP21	VO20069213
381.00	382.00		A0102167	0.0340	Au-ICP21	VO20069213
382.00	383.00		A0102168	0.0270	Au-ICP21	VO20069213
383.00	384.00		A0102170	0.0340	Au-ICP21	VO20069213
384.00	385.00		A0102171	0.0090	Au-ICP21	VO20069213
385.00	386.00		A0102172	0.0270	Au-ICP21	VO20069213
386.00	386.70		A0102173	0.0150	Au-ICP21	VO20069213
386.70	387.40		A0102174	0.0070	Au-ICP21	VO20069213

380.10 387.40 CB; CL; HM

Carbonatisation; Chloritisation; Hématisation

There is a pervasive carbonate alteration.
There is sericite or chlorite begining to alling into a weak foliation though the interval.
The is weak hemitite giving the pinkish colour to the syenites.

380.10 387.40 PY00.5; MG00.5

Pyrite 0.5%; Magnétite 0.5%

There is fine disseminated pyrite that is located along the edges of the feldspar grains as well as infilling local fractures. There is an increase in pyrite content towards the contacts or proximal to the xenoliths of basalt.

380.10	387.40	CS	58
		Cisaillé(e) 58°	
		Very weak, spaced folaition deffined by sericite chlorite. There is a shallow spaced fractures set at 29 degrees and are deffined by quartz carbonate.	

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
387.40	**389.90**	V3B	387.40	388.20		A0102175	0.0060	Au-ICP21	VO20069213
		Basalte 40°	388.20	389.00		A0102176	0.0050	Au-ICP21	VO20069213
		The contacts of this interval are sharp but irregular. The top contact is arounf 40 degrees and the bottom is around 80 degrees. Dark v.f.g. basalts (V4?), over all the interval is very soft. They have been brittely fractured and infilled by calcite/ carboante. Along fracture surfaces, there appears to be serpentanite? This would point to a high Mg basalt. Interval is moderatly-strongly magnetic. Proximal to the contacts there are pink veins, syenite injections? This could be part of a mix zone? Structurally, there is chaotic fracturing with one consistant spaced set at 27 degrees. There is fine disseminated pyrtie thoughout the interval.	389.00	389.90		A0102177	0.0050	Au-ICP21	VO20069213

387.40	389.90	CB; CC; ST	
		Carbonatisation; Calcitisation; Serpentinisation	
		They have been brittel fractures and infilled by calcite/ carboante. Along fracture surfaces, there appears to be serpentanite? This would point to a high Mg basalt	
387.40	389.90	PY0.5-1; MG01	
		Pyrite 0.5-1; Magnétite 1%	
		There is fine disseminated pyrtie thoughout the interval. Interval is moderatly to strongly magnetic.	
387.40	389.90	FA	27
		Fracturé(e) 27°	
		Structurally, there is chaotic fracturing with one consistant spaced set at 27 degrees, deffined by calcite/ carbonate.	

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

389.90 **395.40** I2D (V3B)

Syénite avec 5 à 25% de basalte 80°

Contacts for this interval are sharp but irregular. The top contact at 80 degrees and the bottom at 40 degrees.

The contacts within the interval are sharp and irrigular but the contacts within the mixed zone are diffuse and irregular. The basalt is strongly deformed and appers to have injections of syenite (or hemitite altered veins?).

The basalt has has amphibole alteration (actinolite) That has infilled fractures and begun to replace the rock. This has been over printed by calcite and carbonate infilling fractures. There is weak serice/ chlorite alteration deffining a moderatle foliation.
The syenite is pink to grey in colour, There are potentially mafics included within this unit? There are localized brecciated zones of the two units.

The basalt has been weakly sheared at the contact creating a spaced fabric deffined by calcite/ carboante. This fabric is even weaker in the syenite sections.

Pyrite is finely disseminated within the syenite and basalt and is concentrated in breccia zones of contacts.

389.90 395.40 CB; AM; CL; HM

Carbonatisation; Amphibolitisation; Chloritisation; Hématisation

The basalt has has amphibole alteration (actinolite) That has infilled fractures and begun to replace the rock.
This has been over printed by calcite and carbonate infilling fractures.
There is weak serice/ chlorite alteration deffining a moderatle foliation.
The syenite is pink to grey in colour, weakly hemitized.

389.90 395.40 PY00.5; MGTR

Pyrite 0.5%; Magnétite TR

Pyrite is finely disseminated as well as locally increased proximal to contacts and brecciated zones.

389.90 395.40 FA 40

Fracturé(e) 40°

The basalt has been weakly sheared at the contact creating a spaced fabric deffined by calcite/ carboante.
This fabric is even weaker in the syenite sections.

There is a second spaced fracture set deffined by calcite/ carbonate at 9 degrees.

389.90	391.00	A0102178	0.0130	Au-ICP21	VO20069213
391.00	392.00	A0102179	0.0220	Au-ICP21	VO20069213
392.00	393.00	A0102180	0.0130	Au-ICP21	VO20069213
393.00	394.00	A0102181	0.0080	Au-ICP21	VO20069213
394.00	395.00	A0102182	0.0150	Au-ICP21	VO20069213

From	To	Description
395.40	**413.15**	I2D; GM **Syénite 40°; Grains moyens** Contacts of this interval are sharp but irregular, The top contact at 40 degrees and the bottom contact at 30 degrees. The syenite is mostly homogenious, medium grained, weakly prophyritic? (medium grained feldspars in a fine grained groud mass?), bright pink in colour. The is hemitite alteration giving the pink colour as well as specular hemitie infilling fractures +/- associated with quartz/ carbonate. There is patchy iron carbonate alteration that bleaches the rock to a lighter beige colour. The contacts of that alteration are grasational. Some of the feldspar grains have a green tinge to them? Serice forms inbetween the feldspar grains. There is a spaced fracture set (at 20 degrees) that has specular hemitite, pyrite +/- carbonate. Pyrite is as finely dissemianted thougout the interval.
409.70	410.20	I3 **Intrusif mafique 50°** The contacts of this interal are sharp and locall irregular with both contacts roughly at 50 degrees. The unit is markable darker with a loss of hemitite alteraation, this could be a different phase of syenite? The unit is still prophyritic with white/ yellow feldspars and a dark black groud mass, biotite? Pyrite is still weakly disseminated thougout the interval.
395.40	413.15	CB; HM; SR **Carbonatisation; Hématisation; Séricitisation** The is hemitite alteration giving the pink colour as well as specular hemitie infilling fractures +/- associated with quartz/ carbonate. There is patchy iron carbonate alteration that bleaches the rock to a lighter beige colour. The contacts of that alteration are grasational. Some of the feldspar grains have a green tinge to them? Sericite forms inbetween the feldspar grains.
395.40	413.15	PYTR **Pyrite TR** Finely disseminated within the syenite and +/- within fractures.
395.40	413.15	FA 20 **Fracturé(e) 20°**

From	To	Len	SampleID	Au (ppm)	Method	Certificate
395.00	396.00		A0102183	0.0230	Au-ICP21	VO20069213
396.00	397.00		A0102185	0.0040	Au-ICP21	VO20069213
397.00	398.00		A0102186	0.0030	Au-ICP21	VO20069213
398.00	399.00		A0102187	0.0030	Au-ICP21	VO20069213
399.00	400.00		A0102188	0.0030	Au-ICP21	VO20069213
400.00	401.00		A0102189	0.0020	Au-ICP21	VO20069213
401.00	402.00		A0102190	0.0030	Au-ICP21	VO20069213
402.00	403.00		A0102191	0.0080	Au-ICP21	VO20069213
403.00	404.00		A0102192	0.0020	Au-ICP21	VO20069213
404.00	405.00		A0102193	0.0030	Au-ICP21	VO20069213
405.00	406.00		A0102194	0.0070	Au-ICP21	VO20069213
406.00	407.00		A0102195	0.0040	Au-ICP21	VO20069213
407.00	408.00		A0102196	**0.1740**	Au-ICP21	VO20069213
408.00	409.00		A0102197	0.0080	Au-ICP21	VO20069218
409.00	410.00		A0102198	0.0070	Au-ICP21	VO20069218
410.00	411.00		A0102199	0.0060	Au-ICP21	VO20069218
411.00	412.00		A0102201	0.0020	Au-ICP21	VO20069218
412.00	413.00		A0102202	0.0110	Au-ICP21	VO20069218

There is a spaced fracture set (at 20 degrees) that is deffined by carbonate +/- specular hemitite, pyrite.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
413.15	**415.70**	FAILLE **Faille 30°** Contacts of this interval are sharp with the top contact at 30 degrees and the bottom at 70 degrees. This interval is strongly natrually broken, with leaching forming cavities. There is also a mix of basalt in this zone. This could also be an interlayer of basalt that has taken up all of the strain rather than the more competient syenite on either side? The interval is fine grained and dark in colour. There is abundant pervassive calcite/ carbonate within the interval. The rocks are crumbing but are very hard, potentially have been silicified post deformation? The is fine disseminated pyrite. Interval is strongly magnetic.	413.00	414.00		A0102203	0.0230	Au-ICP21	VO20069218
			414.00	414.80		A0102204	0.0710	Au-ICP21	VO20069218
			414.80	415.70		A0102205	0.0250	Au-ICP21	VO20069218
413.15	415.70	CC; CB; SI **Calcitisation; Carbonatisation; Silicification** There is abundant pervassive calcite/ carbonate within the interval. The rocks are crumbing but are very hard, potentially have been silicified post deformation?							
413.15	415.70	PYTR; MG01 **Pyrite TR; Magnétite 1%** The is fine disseminated pyrite. Interval is strongly magnetic.							
413.15	415.70	FJ **Faille** This interval is strongly natrually broken, with leaching forming cavities. There is also a mix of basalt in this zone. This could also be an interlayer of basalt that has taken up all of the strain rather than the more competient syenite on either side?							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description
415.70	419.75	I2D **Syénite** Contacts of this interval are sharp but irregular, Both contacts are at 70 degrees. The syenite is mostly homogenious, medium grained, weakly prophyritic? (medium grained feldspars in a fine grained groud mass?), bright pink in colour. The is hemitite alteration giving the pink colour as well as specular hemitie infilling fractures +/- associated with quartz/ carbonate. There is patchy iron carbonate alteration that bleaches the rock to a lighter beige colour. The contacts of that alteration are grasational. Some of the feldspar grains have a green tinge to them? Serice forms inbetween the feldspar grains. Disseminated pyrite and disseminated aggragets of specular hemitite
415.70	419.75	CB; HM; SR **Carbonatisation; Hématisation; Séricitisation** The is hemitite alteration giving the pink colour as well as specular hemitie infilling fractures +/- associated with quartz/ carbonate. There is prevasive carbonate alteration. Some of the feldspar grains have a green tinge to them? Serice forms inbetween the feldspar grains.
415.70	419.75	PYTR **Pyrite TR** Fine dissemianted and disseminated aggragets of pyrite.
415.70	419.75	FA 38 **Fracturé(e) 38°** Spaced fracture set that is deffined by carbonate/ calcite. There is a second less common spaced fracture set at 12 degrees deffined by calcite/ carbonate +/- specular hemitite.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
415.70	416.30		A0102206	0.0030	Au-ICP21	VO20069218
416.30	417.00		A0102207	0.0020	Au-ICP21	VO20069218
417.00	418.00		A0102209	0.0040	Au-ICP21	VO20069218
418.00	419.00		A0102210	0.0030	Au-ICP21	VO20069218
419.00	419.80		A0102211	0.0030	Au-ICP21	VO20069218

From	To	Description
419.75	**425.10**	V3B **Basalte 70°** Contacts of this interval differ from top to bottom. The top contact is sharp but irregular at 70 degrees and the bottom contact is brecciated. FIne grained, dark in colour. There has been amphibole alteration that is filling in the fracture network and beinging to replace the rock. There is pink/red alteration that appears to be patchy K-feldspar (finitization?). There is prevasive carbonate/ calcite alteration. The brecciation along the contact is 50 cm in length and has a mint green coloured alteration, caronate and epidote. The fracture network indicates abundant brittle fracturing. There is a spaced fracture set at 55 degrees and a potentially a shallower one but it is difficult to tell based upon the alteration.
419.75	425.10	AM; FK; CC; CB; EP; HM **Amphibolitisation; Altération en feldspath potassique; Calcitisation; Carb** There has been amphibole alteration that is filling in the fracture network and beinging to replace the rock. There is pink/red alteration that appears to be patchy K-feldspar (finitization?). There is prevasive carbonate/ calcite alteration. The brecciation along the contact is 50 cm in length and has a mint green coloured alteration, carbonate and epidote.
419.75	425.10	PY00.5; MG00.5 **Pyrite 0.5%; Magnétite 0.5%** Fine disseminated pyrite, moderatly magnetic.
419.75	425.10	FA 55 **Fracturé(e) 55°** The fracture network indicates abundant brittle fracturing. There is a spaced fracture set at 55 degreesdeffined by calcite/carbonate and a potentially a shallower one but it is difficult to tell based upon the alteration.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
419.80	420.40		A0102212	0.0050	Au-ICP21	VO20069218
420.40	421.00		A0102213	0.0040	Au-ICP21	VO20069218
421.00	422.00		A0102214	0.0090	Au-ICP21	VO20069218
422.00	423.00		A0102215	0.0070	Au-ICP21	VO20069218
423.00	424.00		A0102216	0.0240	Au-ICP21	VO20069218
424.00	425.00		A0102217	0.0160	Au-ICP21	VO20069218

From	To	Description
425.10	427.85	I2D **Syénite** The top contact for this interval is brecciated, the bottom contact for the interval is sharp at 70 degrees. The syenite is homogenious, pink in colour. At the upper contact there is interleaving of a mint grean alteration, the same materail as within the breccia (carbonate, epidote). There is sericite alteration forming around the grain boundarys. The contact at the bottom of the interval is sharp but intereaved with the next interval. There is grey silicious material that infills local fractures, indication a silicification event? There is fine disseminated pyrite, as well as a dissiminated black equant, non magnetic mineral > 1 mm in size. There is spacular hemitite aggragets > 2 mm.
425.10	427.85	SI; SR; CB; EP; HM **Silicification; Séricitisation; Carbonatisation; Épidotisation; Hématisation** At the upper contact there is interleaving of a mint grean alteration, the same materail as within the breccia (carbonate, epidote). There is sericite alteration forming around the grain boundarys. There is grey silicious material that infills local fractures, indication a silicification event? There is hemitite within the feldsaprs giving the pink colour as well as specular hemitite.
425.10	427.85	PYTR **Pyrite TR** Fine disseminated pyrite along the edges of grains.
425.10	427.85	FA 34 **Fracturé(e) 34°** Spaced fracture set defined by grey silicious materail.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
425.00	426.00		A0102218	0.0110	Au-ICP21	VO20069218
426.00	427.00		A0102219	0.0050	Au-ICP21	VO20069218
427.00	427.80		A0102220	0.0010	Au-ICP21	VO20069218

From	To	Description
427.85	429.40	V3B **Basalte 70°** Contacts of this interval are sharp but interleaved. The top contact is at 70 degrees and the bottom is at 40 degrees. The interval is stongly sheared, and could be a sediment? but there are some discontinuous layers, it is most likely a strongly altered basalt. There has been extensive iron carbonate bleaching, to where the rock is beige in colour. Sericite (and probably chlorite) forms a tightly sapced foliation. There is K-

From	To	Len	SampleID	Au (ppm)	Method	Certificate
427.80	428.60		A0102221	0.0030	Au-ICP21	VO20069218
428.60	429.40		A0102222	0.0410	Au-ICP21	VO20069218

feldspar layers, indicating there might be some sheared syenitie, or sheared syenite injections, as well. Grey silicious material infils gaps, suggesting a silicification event (micas are also very hard now). There is weak epidote alteration.

The closely spaced foliation is deffined by sericite at 50 degrees.

Pyrite is finely disseminated along the foliation plane.

427.85 429.40 SR; CB; FK; SI; EP

Séricitisation; Carbonatisation; Altération en feldspath potassique; Silicifi

There has been extensive iron carbonate bleaching, to where the rock is beige in colour.
Sericite (and probably chlorite) forms a tightly sapced foliation.
There is K-feldspar layers, indicating there might be some sheared syenitie, or sheared syenite injections, as well.
Grey silicious material infils gaps, suggesting a silicification event (micas are also very hard now).
There is weak epidote alteration.

427.85 429.40 PY00.5

Pyrite 0.5%

Fine disseminated pyrite follows the foliation plane.

427.85 429.40 CS 50

Cisaillé(e) 50°

The closely spaced foliation is deffined by sericite at 50 degrees.

From	To	Description
429.40	**457.70**	I2D; PO **Syénite 40°; Porphyrique** Contacts of this interval are sharp, the top contact is at 40 degrees and the bottom is brecciated at 60 degrees. This interval is od pink prophyritic textrued syenite. The interval is fairly homogenious. There is pink hemitite staining in the feldspars as well as specular hemitie infilling fractures. There is xenoliths of altered mafic materail up to 5 cm in width, they have sharp boundarys but irregular shapes. They have been intensly iron carbonate altered. The syenite has also been prevassivly carbonate altered. There is grey beige alteration, silica? There are 10 cm course grained milky white quartz carbonate veins with cource grained specular hemitite.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
429.40	430.20		A0102223	**0.2260**	Au-ICP21	VO20069218
430.20	431.00		A0102224	0.0210	Au-ICP21	VO20069218
431.00	432.00		A0102226	**0.1230**	Au-ICP21	VO20069218
432.00	433.00		A0102227	**0.1850**	Au-ICP21	VO20069218
433.00	434.00		A0102228	0.0470	Au-ICP21	VO20069218
434.00	435.00		A0102229	0.0780	Au-ICP21	VO20069218
435.00	436.00		A0102230	**0.4080**	Au-ICP21	VO20069218
436.00	437.00		A0102231	**0.3050**	Au-ICP21	VO20069218
437.00	438.00		A0102232	**0.7170**	Au-ICP21	VO20069218
438.00	439.00		A0102233	**0.5110**	Au-ICP21	VO20069218
439.00	440.00		A0102234	0.0820	Au-ICP21	VO20069218
440.00	441.00		A0102235	0.0710	Au-ICP21	VO20069218

There is one consistant fracture set at 30 degrees defined by carbonate and quartz.

Pyrite is finely dsseminated along the grain boundarys.

448.10 448.60 V3B

Basalte 10°

Strongly sheared basalt with sharp contacts at low core angles. Carbonatized and chloritized with patchy K-feldspar alteration.

This could be a larger xenolith?

429.40 457.70 CB; HM; SI

Carbonatisation; Hématisation; Silicification

There is pink hemitite staining in the feldspars as well as specular hemitie infilling fractures.
There is xenoliths of altered mafic materail up to 5 cm in width, they have sharp boundarys but irregular shapes. They have been intensly iron carbonate altered.
The syenite has also been prevassivly carbonate altered.
There is grey beige alteration, silica?

From	To	Len	SampleID	Au (ppm)	Method	Certificate
441.00	442.00		A0102236	0.0450	Au-ICP21	VO20069218
442.00	443.00		A0102237	**0.2050**	Au-ICP21	VO20069218
443.00	444.00		A0102238	**0.3090**	Au-ICP21	VO20069218
444.00	445.00		A0102239	**0.3830**	Au-ICP21	VO20069218
445.00	446.00		A0102241	**0.1640**	Au-ICP21	VO20069218
446.00	447.00		A0102242	**0.2040**	Au-ICP21	VO20069218
447.00	448.00		A0102243	**0.1240**	Au-ICP21	VO20069218
448.00	449.00		A0102244	0.0430	Au-ICP21	VO20069218
449.00	450.00		A0102245	**0.1220**	Au-ICP21	VO20069218
450.00	451.00		A0102246	**0.3440**	Au-ICP21	VO20069218
451.00	452.00		A0102247	**0.7030**	Au-ICP21	VO20069218
452.00	453.00		A0102248	**0.1970**	Au-ICP21	VO20069218
453.00	454.00		A0102249	**1.7250**	Au-ICP21	VO20069218
454.00	455.00		A0102250	**1.7550**	Au-ICP21	VO20069218
455.00	456.00		A0102251	**1.2150**	Au-ICP21	VO20069218
456.00	456.80		A0102252	**1.1850**	Au-ICP21	VO20069218
456.80	457.70		A0102253	**0.6980**	Au-ICP21	VO20069218

457.70 472.40 V3F

Basalte hyper-magnésien 60°

The upper contact in this interval is brecciated at roughly 60 degrees. The lower contact in this interval is sharp at 80 degrees.

XRF data shows anomolous amounts of Mg - 10%. This point to a possible transition zone into ultramafics. The rock is v.f.g. and is very dark in colour. There have been fractures that have infilled with amphibole (actinolite?) and begun to propogate outwards in a replacement style texture. There is patchy carbonate/ calcite infil zones along infilling over printing fracture sets. There is a patchy k-feldspar alteration between the fractures, finitization.

The nature of the fracturing within this zone is chaotic but there are 2 fair consistant spaced sets. The first being at 38 degrees and the second at 10 degrees.

Pyrite is dissemianted and proximal to the carbonate/calcite infilling fractures.

457.70 472.40 AM; CB; CC; FK

Amphibolitisation; Carbonatisation; Calcitisation; Altération en feldspath

There have been fractures that have infilled with amphibole (actinolite?)

From	To	Len	SampleID	Au (ppm)	Method	Certificate
457.70	458.30		A0102254	0.0390	Au-ICP21	VO20069218
458.30	459.00		A0102255	0.0070	Au-ICP21	VO20069218
459.00	460.00		A0102257	0.0070	Au-ICP21	VO20069218
460.00	461.00		A0102258	0.0080	Au-ICP21	VO20069218
461.00	462.00		A0102259	0.0170	Au-ICP21	VO20069218
462.00	463.00		A0102260	**0.4310**	Au-ICP21	VO20069218
463.00	464.00		A0102261	0.0040	Au-ICP21	VO20069218
464.00	465.00		A0102262	0.0270	Au-ICP21	VO20069218
465.00	466.00		A0102263	0.0290	Au-ICP21	VO20069218
466.00	467.00		A0102264	0.0170	Au-ICP21	VO20069218
467.00	468.00		A0102265	0.0600	Au-ICP21	VO20069218
468.00	469.00		A0102266	0.0830	Au-ICP21	VO20069218
469.00	470.00		A0102267	**0.4020**	Au-ICP21	VO20069218
470.00	471.00		A0102268	0.0820	Au-ICP21	VO20069218
471.00	471.70		A0102269	0.0150	Au-ICP21	VO20069218
471.70	472.40		A0102270	**0.3220**	Au-ICP21	VO20069218

and begun to propogate outwards in a replacement style texture.
There is patchy carbonate/ calcite infil zones along infilling over printing fracture sets.
There is a patchy brown alteration between the fractures, this could be potassic k-feldspar or biotite alteration.

457.70 472.40 PY00.5; MG00.5

Pyrite 0.5%; Magnétite 0.5%

Pyrite is dissemianted and found along the margins of carbonate/calcite infil zones. The interval is moderatly magnetic.

457.70 464.80 FA 38

Fracturé(e) 38°

The nature of the fracturing within this zone is chaotic but there are 2 fairly consistant spaced sets. The first being at 38 degrees and the second at 10 degrees.

464.80 465.00 CNR

Carotte non récupérée

465.00 472.40 FA 38

Fracturé(e) 38°

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
472.40	**474.90**	I2D; GM	472.40	473.00		A0102271	**0.1300**	Au-ICP21	VO20069218
		Syénite; Grains moyens	473.00	474.00		A0102272	**0.2430**	Au-ICP21	VO20069218
		The contacts of this interval are sharp and steap at 80 degrees for both upper and lower.	474.00	474.90		A0102274	0.0830	Au-ICP21	VO20069218
		Medium grained, pink, homogenious syenite. There is disseminated hemitite creating the pink colour and local disseminated aggrates of specular hemitite. There is an increase in iron carboante alteration towards the contacts. There is weak sericite forming a weak allingment within the interval.							
		There is a spaced weak foliation deffined by, sericite.							

472.40 474.90 SR; CB; HM

Séricitisation; Carbonatisation; Hématisation

There is disseminated hemitite creating the pink colour and local disseminated aggrates of specular hemitite.
There is an increase in iron carboante alteration towards the contacts.
There is weak sericite forming a weak allingment within the interval.

472.40 474.90 PYTR

Pyrite TR

472.40	474.90	CS	55

Cisaillé(e) 55°

Weak spaced foliation deffined by sericite.

From	To	Description
474.90	**485.95**	V3F

Basalte hyper-magnésien 80°

Contacts for this interval are sharp and at a high angle to the core axis - 80 degrees for both.

Dark, high Mg basalt. Chaotically fractured to foliated with a pseudo brecciated texture. There is amphiboles that have filled in fractures and begun to ptopogate. This is over printed by carbonate and sericite filled fractures. This gives the interval a brecciared looking textrue, but it is unlikly there has been much movement. Thre is a semi - pervassive carboante alteration. There is patchy finitization (k-feldspar).

This is a primary folition direction but the interval is chaotically fractured to crackle brecciated locally. There is abundant brittle fracturing that is infilled with calcite/carboante/ sericite.

Pyrite is disseminated and weakly concentrated along the contacts of the xenoliths. and along the contact with the syenite interval below.
485.3 - 486.6 -> increase is folaition intensity and increase in pyrite to 0.5-1%

478.7 - 478.9 -> zone of intense iron carbonate alteration and bleaching with sharp contacts - could be a xenolith? There is increased foliation on either side of the interval.
479.5 - 480.15 -> zone of intense iron carboante alteration and bleaching with sharp contacts - cpuld be a xenolith? There is increased foliation on either side of the interval.

478.70	478.90	V3F

Basalte hyper-magnésien 50°

Zone of intense iron carbonate alteration and bleaching with sharp contacts - could be a xenolith? There is increased foliation on either side of the interval.

479.50	480.15	V3F

Basalte hyper-magnésien 35°

Zone of intense iron carbonate alteration and bleaching with sharp contacts - could be a xenolith? There is increased foliation on either side of the interval.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
474.90	476.00		A0102275	**0.3770**	Au-ICP21	VO20069218
476.00	477.00		A0102276	**0.2620**	Au-ICP21	VO20069218
477.00	477.80		A0102277	**0.3730**	Au-ICP21	VO20069218
477.80	478.70		A0102278	**0.4800**	Au-ICP21	VO20069218
478.70	479.30		A0102279	**0.3470**	Au-ICP21	VO20069218
479.30	480.20		A0102280	**1.1350**	Au-ICP21	VO20069218
480.20	481.00		A0102281	0.0810	Au-ICP21	VO20069218
481.00	482.00		A0102282	**0.1110**	Au-ICP21	VO20069218
482.00	483.00		A0102283	0.0240	Au-ICP21	VO20069218
483.00	484.00		A0102284	0.0100	Au-ICP21	VO20069218
484.00	485.00		A0102285	0.0210	Au-ICP21	VO20069218
485.00	485.90		A0102286	0.0080	Au-ICP21	VO20069218

474.90	485.95	CB; SR; AM; FK	
		Carbonatisation; Séricitisation; Amphibolitisation; Altération en feldspath	
		There is amphiboles that have filled in fractures and begun to propogate. This is over printed by carbonate and sericite filled fractures. This gives the interval a brecciared looking textrue, but it is unlikly there has been much movement. Thre is a semi - pervassive carboante alteration. There is patchy finitization (k-feldspar).	
474.90	478.50	PYTR; MG01	
		Pyrite TR; Magnétite 1%	
		Fine disseminated pyrite, highly magnetic.	
478.50	480.30	PY0.5-1; MG01	
		Pyrite 0.5-1; Magnétite 1%	
		Pyrite is concentrated along the contacts of carboante altred xenoliths. Highly magnetic.	
480.30	485.30	PYTR; MG01	
		Pyrite TR; Magnétite 1%	
		Trace dissemianitated pyrite, highly magnetic.	
485.30	485.90	PY0.5-1; MG01	
		Pyrite 0.5-1; Magnétite 1%	
		Pyyrite concentrated along the contact, stongly magnetic.	
474.90	485.95	CS	35
		Cisaillé(e) 35°	
		This is a primary folition direction but the interval is chaotically fractured to crackle brecciated locally. There is abundant brittle fracturing that is infilled with calcite/carboante/ sericite.	

From	To	Description
485.95	**499.00**	I2D
		Syénite
		The top contact with the basalts is sharp at 80 degrees. The bottom contact where the syenite and basalt begin to become mixed is gradational. Pink grey, medium grained to porphyritic. Mafic xenotiths with irrigular but sharp contacts up to 5 cm in width. Patchy iron carboanate alteration. Interval has been silicified. There is sericite that is begining to form along the grain boundarys. There is disseminated hemitite giving a pink colour. There are zones up to 5 cm in size with silicious fludding. Pyrite is heterogeniously disseminated throughout the interval, cocentrated

From	To	Len	SampleID	Au (ppm)	Method	Certificate
485.90	487.00		A0102287	0.0080	Au-ICP21	VO20069218
487.00	488.00		A0102289	0.0070	Au-ICP21	VO20069218
488.00	488.60		A0102290	0.0100	Au-ICP21	VO20069218
488.60	489.40		A0102291	0.0140	Au-ICP21	VO20069218
489.40	490.00		A0102292	0.0060	Au-ICP21	VO20069218
490.00	491.00		A0102293	0.0060	Au-ICP21	VO20069218
491.00	492.00		A0102294	0.0100	Au-ICP21	VO20069218
492.00	493.00		A0102295	0.0300	Au-ICP21	VO20069218
493.00	494.00		A0102296	0.0150	Au-ICP21	VO20069218
494.00	495.00		A0102297	0.0160	Au-ICP21	VO20069218
495.00	496.00		A0102298	**0.1220**	Au-ICP21	VO20069218

		along fractures and small silicious zones. 488.7 - 489.2 -> carboantite dyke with sharp boundarys as well as an increase in pyrite mineralization along the contacts.	496.00	497.00		A0102299	**0.1130**	Au-ICP21	VO20069218
			497.00	498.00		A0102300	**0.1270**	Au-ICP21	VO20069218
			498.00	499.00		A0102301	0.0100	Au-ICP21	VO20069218
488.70	489.20	I4Q **Carbonatite 50°** Carboantite dyke with sharp boundarys as well as an increase in pyrite mineralization along the contacts.							
485.95	499.00	CB; SI; SR; HM **Carbonatisation; Silicification; Séricitisation; Hématisation** Patchy iron carboanate alteration. Interval has been silicified. There are zones up to 5 cm in size with silicious fludding. There is sericite that is begining to form along the grain boundarys. There is disseminated hemitite giving a pink colour.							
485.95	488.50	PY00.5 **Pyrite 0.5%** Pyrite is heterogeniously disseminated throughout the interval, cocentrated along fractures and small silicious zones.							
488.50	489.40	PY1-3% **Pyrite 1-3%** Pyrite is concentrated along the contacts od a carbonatite dyke.							
489.40	499.00	PY00.5 **Pyrite 0.5%** Pyrite is heterogeniously disseminated throughout the interval, cocentrated along fractures and small silicious zones.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
499.00	**510.90**	I2D V3B **Syénite avec 25 à 50% de basalte** Contacts of this interval are gradational and deffined by the alteration and the proportions of lithologies. This is a highly defformed mixing zone of syenite and basalt. The syenite is medium grained to porphyritic. The top portion of this interval has pink grey syenite, this is intermixed with highly iron carboante altered syenite that has epidote chlorite? alteration as well. Sericite is semi-pervassive throughout the interval. There are silicious pockets of fludding that are > 5 cm in width. The syenite is intermixed with highly finatized (k-fedspar alt) high Mg mafics.	499.00	500.00		A0102302	0.0230	Au-ICP21	VO20069218
			500.00	501.00		A0102303	0.0090	Au-ICP21	VO20069218
			501.00	501.70		A0102305	0.0100	Au-ICP21	VO20069218
			501.70	502.40		A0102306	0.0120	Au-ICP21	VO20069218
			502.40	503.00		A0102307	0.0260	Au-ICP21	VO20069218
			503.00	503.70		A0102308	0.0120	Au-ICP21	VO20069218
			503.70	504.30		A0102309	0.0160	Au-ICP21	VO20069218
			504.30	505.00		A0102310	0.0330	Au-ICP21	VO20069218
			505.00	506.00		A0102311	0.0510	Au-ICP21	VO20069218
			506.00	506.90		A0102312	0.0150	Au-ICP21	VO20069218

502.5 - 502.7 -> Silica and K-feldspar with an increase in pyrite.
502.9 - 503.7 -> Iron carbonate altered zone, increase in pyrite
509.7 - 510.0 -> iron carboante zone with an increase in pyrite along the edges.
510.3 - 510.9 -> K-feldspar iron carboante bx zone.

*All of these indicated zones could be injections, mixing/ brecciation features and not their own units, but they create permiability barriers and concentrat the sulphideds along thier bounarys.

506.90	507.50	A0102313	0.0200	Au-ICP21	VO20069218
507.50	508.20	A0102314	0.0160	Au-ICP21	VO20069218
508.20	509.20	A0102315	0.0130	Au-ICP21	VO20069218
509.20	509.80	A0102316	0.0200	Au-ICP21	VO20069218
509.80	510.30	A0102317	0.0160	Au-ICP21	VO20069218
510.30	510.90	A0102318	0.0130	Au-ICP21	VO20069218

499.00 510.90 CB; FK; SI; SR; EP; CL

Carbonatisation; Altération en feldspath potassique; Silicification; Sériciti

The top portion of this interval has pink grey syenite, this is intermixed with highly iron carboante altered syenite that has epidote chlorite? alteration as well.
Sericite is semi-pervassive throughout the interval.
There are silicious pockets of fludding that are > 5 cm in width.
The syenite is intermixed with highly finatized (k-fedspar alt) high Mg mafics.

499.00 502.50 PY00.5

Pyrite 0.5%

Pyrite is finely disseminated and concentrated along structural changes (silica flooding, fractures)

502.50 503.70 PY1-3; MGTR

Pyrite 1-3; Magnétite TR

Silica K-seldspar and carbonate zones form boundarys that have in increase of pyrite mineralization and patchy magnatite.

503.70 509.70 PY00.5; MGTR

Pyrite 0.5%; Magnétite TR

Disseminated pyrite concentrated along structural/ alteration boundarys.
Patchy magnatite.

509.70 510.60 PY0.5-1; MGTR

Pyrite 0.5-1; Magnétite TR

Carbonate altered zone, with pyrite concentrated along the margins.
Patchy magnatite.

510.60 510.90 PY3-5; MG01

Pyrite 3-5; Magnétite 1%

Dark fine graine basalt between tow carbonate altered zones with an increase in pyrite to 3-5%. Strongly magnetic.

499.00 510.90 BX

Bréchique

This may just be a mixing zone of alterations, with injections od syenite? but it has at least a pseudo brecciated texture.

From	To	Description
510.90	**520.00**	V3B I2D

Basalte avec 25 à 50% de syénite

Contacs of this interval are gradational and deffined by the alteration.

This is a mixed interval, with more basalt then syenite proportionally. The alteration of this interval s patchy and non pervassive, creating pockets of basalt with higher proportion of pyrite (listed below) The main type of alteration causing there permiability barriers is locally prevassive carbonate and silicification, creating a beige colour in the rock. syenite injections also creat a berrier.

511.6 - 511.8 -> Iron carbante altered basalt wth and increase of pyrite along the margins.
512.3 - 512.7 -> K-feldspar altered basalt
514.2 - 515.5 -> Highly fractured basalt at low core angle.
514.9 - 515.5 -> Highly fractured basalt.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
510.90	511.60		A0102319	0.0100	Au-ICP21	VO20069218
511.60	512.40		A0102320	0.0140	Au-ICP21	VO20069218
512.40	513.10		A0102322	0.0440	Au-ICP21	VO20069218
513.10	514.00		A0102323	0.0100	Au-ICP21	VO20069218
514.00	514.80		A0102324	0.0060	Au-ICP21	VO20069218
514.80	515.60		A0102325	0.0090	Au-ICP21	VO20069218
515.60	516.40		A0102326	0.0100	Au-ICP21	VO20069218
516.40	517.00		A0102327	0.0060	Au-ICP21	VO20069218
517.00	518.00		A0102328	0.0350	Au-ICP21	VO20069218
518.00	519.00		A0102329	0.0150	Au-ICP21	VO20069218
519.00	520.00		A0102330	0.0120	Au-ICP21	VO20069218

510.90 520.00 CB; SI; SR

Carbonatisation; Silicification; Séricitisation

This is a mixed interval, with more basalt then syenite proportionaly. Locally prevassive carbonate, sericite and silicification, creating yellow beige colour in the rock.

510.90 516.00 PY1-3; MG01

Pyrite 1-3; Magnétite 1%

Fractured breccia zone with 1-3% py along alteration contacts and within veins, strongly magnetic, magnatite associated with pyrite.

510.90 520.00 FA 40

Fracturé(e) 40°

Zone has tow spaced fracture sets both deffined by calite and carbonate. One is at 40 degrees and the other at 11. The interval is also psudo/ brecciated.

From	To	Description

From	To	Len	SampleID	Au (ppm)	Method	Certificate

520.00 527.90 V3B; GM

Basalte; Grains moyens

The upper contact if this interval is gradational and deffined by the change in alteration style, the bottom contact is sharp and irregular at 55 degrees.

This is a medium grained to porphyritic basalt. There is an epidote, chlorite alteration that are semi prevassive. There is dark sericite mixed wirh silicious material infilling fractures thougout the interval. There is a low angle fracture that cuts one of the syenite injections (521.1 - 521.4) and has 1-3% disseminated pyrite associated with it, it is unclear if this is related to the syenite injection or not?

521.1 - 521.4 -> Syenite dyke/ injection
525.2 - 525.4 -> Syenite dyke/ injection
525.6 - 525.8 -> Syenite dyke/ injection

521.10 521.40 I2D

Syénite

Irregular sharp contacts, could be syenite injection.

525.20 525.40 I2D

Syénite

Irregular sharp contacts, could be syenite injection.

525.60 525.80 I2D

Syénite

Irregular sharp contacts, could be syenite injection.

520.00 527.90 SI; SR; EP; CL; CC

Silicification; Séricitisation; Épidotisation; Chloritisation; Calcitisation

There is an epidote, chlorite alteration that are semi prevassive.
There is dark sericite mixed wirh silicious material infilling fractures thougout the interval.
There is calcite/ carboante infilling fractures across the interval.

516.00 525.00 PY0.5-1; MG01

Pyrite 0.5-1; Magnétite 1%

Fractured zone with py along alteration contacts and within veins, strongly magnetic.

525.00 525.80 PY1-3; MG01

Pyrite 1-3; Magnétite 1%

Pyrite along the boundarys of syenite injections.

520.00 527.90 FA 15

Fracturé(e) 15°

The predominat fracture set in this zone is at a low angle od 11 degrees,

520.00	521.00	A0102331	0.0260	Au-ICP21	VO20069218
521.00	521.60	A0102332	0.0290	Au-ICP21	VO20069218
521.60	522.70	A0102333	0.0230	Au-ICP21	VO20069218
522.70	523.00	A0102334	0.0340	Au-ICP21	VO20069218
523.00	523.60	A0102335	0.0340	Au-ICP21	VO20069218
523.60	524.20	A0102337	0.0490	Au-ICP21	VO20069218
524.20	525.00	A0102338	0.0350	Au-ICP21	VO20069218
525.00	525.80	A0102339	0.0560	Au-ICP21	VO20069218
525.80	526.50	A0102340	0.0290	Au-ICP21	VO20069218
526.50	527.40	A0102341	0.0720	Au-ICP21	VO20069218
527.40	527.90	A0102342	0.0130	Au-ICP21	VO20069218

there is pyrite mineralization along these fractures, particularly where there is syenite injections.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
527.90	**530.10**	I2D; PO **Syénite 55°; Porphyrique** Contacts of this interval are sharp and irregular with the top contact being at 55 degrees and the bottom contact at 42 degrees. This is a mostly homogeious interval, most liklely a dyke, pink grey in colour. There is some interleaving of basalt at the base of the interval. There is disseminated hemitite, sericite infilling fractures and has been prevassivly silicified. There is disseminated pyrite thougout the interval.	527.90	528.70		A0102343	0.0040	Au-ICP21	VO20069218
			528.70	529.50		A0102344	0.0070	Au-ICP21	VO20069218
			529.50	530.10		A0102345	0.0140	Au-ICP21	VO20069218
527.90	530.10	SI; SR; HM **Silicification; Séricitisation; Hématisation** There is disseminated hemitite, sericite infilling fractures and has been prevassivly silicified.							
525.80	530.10	PY0.5-1; MG01 **Pyrite 0.5-1; Magnétite 1%** Fractured zone with py along alteration contacts and within veins, strongly magnetic.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
530.10	**531.00**	I4Q **Carbonatite 42°** Contacts of this interval are sharp with the top at 42 degrees, the bottom is difficult to meausre at the EOH. There is elevated REEs and there is interlayered silicifed wall rock, siggesting this channel may have been opend multiple times.	530.10	531.00		A0102346	0.0140	Au-ICP21	VO20069218
530.10	531.00	CB **Carbonatisation** Carnonatite with silicifed wall rock interlayered.							
530.10	531.00	PY1-3; MG01							

Pyrite 1-3; Magnétite 1%

Pyrite concentrated along the contacts of a carbonatite dyke.

530.10	531.00	CS	50

Cisaillé(e) 50°

Wall rock layers within the carbonatite forming the a spaced foliation, could be a crack seal textrute form multiple openings of the same channel.

Downhole Survey

Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method
0.00	0.60	-52.30	Collar	141.00	2.14	-52.39	Champ Gyro	144.00	2.19	-52.44	Champ Gyro
159.00	1.64	-52.36	Champ Gyro	189.00	2.17	-52.13	Champ Gyro	219.00	1.95	-52.08	Champ Gyro
249.00	3.09	-51.88	Champ Gyro	309.00	3.29	-51.29	Champ Gyro	339.00	3.31	-51.16	Champ Gyro
369.00	3.13	-50.94	Champ Gyro	399.00	3.17	-50.47	Champ Gyro	429.00	3.61	-50.22	Champ Gyro
459.00	3.95	-49.76	Champ Gyro	489.00	4.15	-49.60	Champ Gyro	519.00	3.88	-49.17	Champ Gyro
528.00	4.62	-48.81	Champ Gyro								

Drillhole Information

Easting: 704642.83
Northing: 5491702.60
Elevation: 288.01
Azimuth 360.00
Dip -55.00

Drilling Information

DrillCo: Roby
DrillID: R4
DrillStart: 05-Mar-20
DrillEnd: 09-Mar-20
Length (m): 175.90

Logging Information

LogBy: E. Stavre (OGQ #2144)
LogStart: 25-Mar-20
LogEnd: 26-Mar-20

Drillhole Summary

Intercepts >= 0.1 ppm

Hole_ID	From	To	Length	Au (ppm)
DO-20-274	94	95	1	0.291
DO-20-274	124	126	2	0.18

E. Stavre (OGQ #2144)
12-Jan-22

Lithology and Assay Results

From	To	Description
0.00	**25.50**	M-T **Mort terrain** Overburden(NW drilled)

From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description
25.50	**31.40**	V3B I2D; AP **Basalte avec 25 à 50% de syénite 35°; Aphanitique** Syenite with <50 % basalt.Green to dark green/reddish, aphanitic/porphyritic alternating, mm to cm size sheared/fractured dark green mafic fragments to brecciated sections(30m-30.2m).Strongly sheared unit decreasing, (27.8m-28.7m) with few mm size mylonite bands (28.4m-28.5m). Shear foliation S2 at 30 degree to core axis. S3 carbonate filled fractures at 55degree to core axis terminating. Strong carbonate/hematite/potassic alteration banding. Oxidation patches to fracture filling. Fenitized mafic fragments.Mineralization is trace Pyrite sulphie. 28.9m-29.6m basalt with <10% syenite, dark green to reddish, aphanitic, mineral alignment at 40-45degree to core axis, fracture concordant, carbonate/hematite/Fe-carbonate with patchy potassic alteration. Mineralization is trace Pyrite alteration.29.6m-30m strong fenitized basalt with strong potasic alteration to patches, /semi pervasive leucoxene. Mineralization is trace. 30m-31.4m. Basalt with <50% syenite dark green to dark reddish, carbonate with chlorite replacement patches. Fe-carbonate patches to veinlet. Mineralization is trace Pyrite sulphideLower contact is at 35 degree to core axis, with limonitization/hematite stringers to thin bands.
29.60	30.00	V3B; AP **Basalte; Aphanitique** 29.6m-30m strong fenitized basalt with strong potassic ateration to patches, /semi pervasive leucoxene. Mineralized trace.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
25.50	26.00		A0104055	0.0120	Au-ICP21	VO20089352
26.00	27.00		A0104057	0.0270	Au-ICP21	VO20089352
27.00	28.00		A0104058	0.0080	Au-ICP21	VO20089352
28.00	29.00		A0104059	0.0060	Au-ICP21	VO20089352
29.00	30.00		A0104060	0.0200	Au-ICP21	VO20089352
30.00	31.00		A0104061	0.0030	Au-ICP21	VO20089352

25.50	31.40	CB; HM; FK; LM **carbonatization; Hématisation; Altération en feldspath potassique; Limon** Strong carbonatization/hematite/potassium banding. Oxidation patches to fractureure filling. Fenitized mafic fragments.	
25.50	31.40	PY00.5 **Pyrite 0.5%** MIneralization is trace pyrite.	
27.80	28.70	CS **Cisaillé(e) 30°** Strongly sheared unit decreasing, (27.8m-28.7m) with few mm size Mylonite bands (28.4m-28.5m).Shear foliation S2 at 30 degree to-core-axis, S3 caclite filled fractures at 55 degree to-core-axis terminating.	30
30.00	30.20	BX **Bréchique** Brecciated sections (30m-30.2m).	

From	To	Description
31.40	**62.60**	I2D; PO **Syénite 45°; Porphyrique** Syenite (?).Orange color ,coarse grain, porphyritic, euhedral granulation, few plagioclase phenos, mm size sections, weakly fractured, <5% mafic cm size fragments to digestion, (83.2m-83.4m) to basalt subunits carbonate/silicified with define contacts (43.4m-43.6m). Mineralization is 1-2% hematite specularite stringers to fracture filling.51m-57m. Increase somewhat of hematite/potassic alteration. 54.7m one 5cm greenish yellowish volcanics contact (dacite?) with somewhat sheared fabric and quartz eyes. Strong sericite replacing. Sharp contact at 40 degree to core axis.Carbonate/hematite alteration package with sericitzation flakes to pervasive alternating intensity. Mineralization is trace to 0.5% Pyrite sulphide, hematite controlled. Lower contact at 45degree to core axis.
43.40	43.60	V3B; AP **Basalte; Aphanitique** Basalt subunits carbonatized/silicified with define contacts. Mineralized 1-2% Hematite spec stringers to fracture filling.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
31.00	32.00		A0104062	0.0050	Au-ICP21	VO20089352
32.00	33.00		A0104063	0.0080	Au-ICP21	VO20089352
33.00	34.00		A0104064	0.0070	Au-ICP21	VO20089352
34.00	35.00		A0104065	0.0110	Au-ICP21	VO20089352
35.00	36.00		A0104066	0.0030	Au-ICP21	VO20089353
36.00	37.00		A0104067	0.0010	Au-ICP21	VO20089353
37.00	38.00		A0104068	0.0010	Au-ICP21	VO20089353
38.00	39.00		A0104069	0.0010	Au-ICP21	VO20089353
39.00	40.00		A0104070	0.0100	Au-ICP21	VO20089353
40.00	41.00		A0104071	0.0050	Au-ICP21	VO20089353
41.00	42.00		A0104072	0.0060	Au-ICP21	VO20089353
42.00	43.00		A0104074	0.0010	Au-ICP21	VO20089353
43.00	44.00		A0104075	0.0090	Au-ICP21	VO20089353
44.00	45.00		A0104076	0.0005	Au-ICP21	VO20089353
45.00	46.00		A0104077	0.0005	Au-ICP21	VO20089353
46.00	47.00		A0104078	0.0010	Au-ICP21	VO20089353
47.00	48.00		A0104079	0.0020	Au-ICP21	VO20089353
48.00	49.00		A0104080	0.0005	Au-ICP21	VO20089353
49.00	50.00		A0104081	0.0005	Au-ICP21	VO20089353
50.00	51.00		A0104082	0.0005	Au-ICP21	VO20089353
51.00	52.00		A0104083	0.0020	Au-ICP21	VO20089353

From	To	Description
54.70	54.80	V1 **Volcanique felsique non divisé 40°** 54.7m one 5cm greenish yellowish lower-contact (dacite?) with somewhat sheared fabric and quartz eyes. Strong sericite replacing. Sharp contact at 40 degree to-core-axis.
31.40	54.70	CB; HM **carbonatization; Hématisation** Carbonate/hematite with sericitzation flakes to pervasive alternating intensity.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
52.00	53.00		A0104084	0.0005	Au-ICP21	VO20089353
53.00	54.00		A0104085	0.0005	Au-ICP21	VO20089353
54.00	55.00		A0104086	0.0010	Au-ICP21	VO20089353
55.00	56.00		A0104087	0.0010	Au-ICP21	VO20089353
56.00	57.00		A0104089	0.0005	Au-ICP21	VO20089353
57.00	58.00		A0104090	0.0040	Au-ICP21	VO20089353
58.00	59.00		A0104091	0.0020	Au-ICP21	VO20089353
59.00	60.00		A0104092	0.0010	Au-ICP21	VO20089353
60.00	61.00		A0104093	0.0030	Au-ICP21	VO20089353
61.00	62.00		A0104094	0.0010	Au-ICP21	VO20089353
62.00	63.00		A0104095	0.0030	Au-ICP21	VO20089353

From	To	Description
62.60	**65.70**	I2D; PO **Syénite 35°; Porphyrique** Syenite/Monzonite.Coarse greysh to pinkish, porphyritic mm size unhedral felds with equigranular to euhedral mm size twinning plagioclase phenos, at ~50/50 ratio.Fractured unit erratic to stockwork, with late silica/carbonate to silica /fluorite/specularite rims at 45-65 degree to core axis.Increase of Fe-carbonate/hematite/K-feldspar. Rare fluorite patches to fracture fillng.Mineralized up to 5-6% medium grain to fine grain pyrite disseminated to fracture filling, Lower contact is silicified sheared at 35 degree to core axis with up to 5% medium to fine grain Pyrite stringers to preferred pyrite blebs.
62.60	65.70	CB; FK; FL **carbonatization; Altération en feldspath potassique; Fluoritisation** Incerase of Fe-carbonate/hematite/K, rare fluorite patches to fractureure fillng.
62.60	65.70	PY06 **Pyrite 6%** MIneralized up to 5-6% medium-grain to fine-grain pyrite disseminated to fracture filling,
62.60	65.70	FA 50 **Fracturé(e) 50°** Fractured unit erratic to stockwork, with late silica/carbonate /fluorite/specularite rims at 45-65 degree to-core-axis.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
63.00	64.00		A0104096	0.0040	Au-ICP21	VO20089353
64.00	65.00		A0104097	0.0010	Au-ICP21	VO20089353
65.00	66.00		A0104098	0.0050	Au-ICP21	VO20089353

From	To	Description
65.70	**76.40**	I2D; PO **Syénite; Porphyrique** Syenite. Orangeish, beige color, porphyritic texture, altered, with medium to finer grain syenite units, fractured around 60 degree to core axis, carbonate/sericite and fluorite filled fracture, with late finer grain syenite at 68.36m-68.6m at high angle to core axis.~5% related carbonate sheared unit at 40degree to core axis.stronger pervasive carbonate/sericite with moderate silicification alternating and increasing fluorite specs, mm size patches to fracture/mm size veining envelope. Mineralized alteration haloes around late intrusives (68.2m-68.6m trace to 0.5% pyrite/fluorite filling fractures),(74.4m-76.4m with stronger hematite/carbonate/potassic alteration/fluorite alteration package)
65.70	76.40	CB; SR; SI; FL **carbonatization; Séricitisation; Silicification; Fluoritisation** Stronger pervasive carbonate/sericite with moderate silicification alternating and increasing fluorite specs, mm size patches to fractureure/mm size veining envelope.
65.70	76.40	PY00.5; HM **Pyrite 0.5%; HΘmatite** Mineralized alteration haloes around late intrusive (68.2m-68.6m trace to 0.5% pyrite/fluorite filling fracture s),(74.4m-76.4m with stronger hematite/carbonate/k-feldspar/fluorite)
65.70	76.40	FA 60 **Fracturé(e) 60°** Fractured around 60 degree to-core-axis, carbonat/sericite and flourite filled fracture, with late finer grain syenite at 68.36m-68.6m at high angle to-core-axis.~5% related carbonate sheared unit at 40 degree to-core-axis.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
66.00	67.00		A0104099	0.0005	Au-ICP21	VO20089353
67.00	68.00		A0104100	0.0060	Au-ICP21	VO20089353
68.00	69.00		A0104101	0.0020	Au-ICP21	VO20089353
69.00	70.00		A0104102	0.0010	Au-ICP21	VO20089353
70.00	71.00		A0104103	0.0020	Au-ICP21	VO20089353
71.00	72.00		A0104105	0.0010	Au-ICP21	VO20089353
72.00	73.00		A0104106	0.0030	Au-ICP21	VO20089353
73.00	74.00		A0104107	0.0010	Au-ICP21	VO20089353
74.00	75.00		A0104108	0.0060	Au-ICP21	VO20089353
75.00	76.00		A0104109	0.0500	Au-ICP21	VO20089353

76.00	77.00	A0104110	0.0190	Au-ICP21	VO20089353
77.00	78.00	A0104111	0.0140	Au-ICP21	VO20089353
78.00	79.00	A0104112	0.0080	Au-ICP21	VO20089353
79.00	80.00	A0104113	0.0030	Au-ICP21	VO20089353
80.00	81.00	A0104114	0.0350	Au-ICP21	VO20089353
81.00	82.00	A0104115	0.0240	Au-ICP21	VO20089353
82.00	83.00	A0104116	0.0070	Au-ICP21	VO20089353
83.00	84.00	A0104117	0.0090	Au-ICP21	VO20089353
84.00	85.00	A0104118	0.0140	Au-ICP21	VO20089353
85.00	86.00	A0104119	0.0110	Au-ICP21	VO20089353
86.00	87.00	A0104120	0.0230	Au-ICP21	VO20089353
87.00	88.00	A0104122	0.0300	Au-ICP21	VO20089353
88.00	89.00	A0104123	0.0040	Au-ICP21	VO20089353
89.00	90.00	A0104124	0.0420	Au-ICP21	VO20089353
90.00	91.00	A0104125	0.0330	Au-ICP21	VO20089353
91.00	92.00	A0104126	0.0560	Au-ICP21	VO20089353
92.00	93.00	A0104127	0.0900	Au-ICP21	VO20089353
93.00	94.00	A0104128	0.0620	Au-ICP21	VO20089353
94.00	95.00	A0104129	**0.2910**	Au-ICP21	VO20089353
95.00	96.00	A0104130	0.0210	Au-ICP21	VO20089353

76.40 **96.20** I2D; PO

Syénite; Porphyrique

Syenite, beige to orange color, porphyritic medium granulation, with 10% hairline sericite/carbonate filled fractures erratic, ~2-3% carbonate filled fractures to carbonate veinlet at 50degree to core axis.Pervasive carbonate/sericite flakes to patchy sericification/potassic alteration with hematite alternating intensity overall.One intense Potassic alteration/Fe-carbonate/hematite alteration haloes at 80.80.85m-81.15m with at 45degree to core axis, possible late syenite intrusive, with abundant specularite stringers fracture filling and up to 5% medium to fine grain rusty Pyrite sulphide.

83.7m-83.8m one quartz/carbonate/albite veining with 1-2% medium to fine grain Pyrite and abundant specularite/Iron mica parting along albite.

85.6m-85.7m one late finer grain syenite at high angledegree to core axis ~70degree to core axis with stronger carbonate/sericite/silicifiedifcation wall rock alteration. Mineralization is trace Pyrite.86m-88.3m stronger hematite/carbonate/Potassic alteration with increasing specularite content and fluorite specs to fracture filling. Mineralization is up to 3% medium to fine grain rusty Pyrite to blebs.

88.3m-89,4m increase of sericitzation with 4-5% specularite disseminated amphibole replaced overprinting.89.4m-94m stronger hematite/carbonate/potassic alteration with massive specularite patches to fracture filling and fluorite specs to fracture filling.

Mineralization is up to 1% medium to fine grain carbonate altered intergranular matrix to fracture filling.

80.85 81.15 I2D; AP

Syénite 45°; Aphanitique

One intense K-feldspar/ Fe-carbonate/hematite alteration halo at 80.85m-81.15m with at 45 degree to-core-axis, possible late syenite intrusive, with abundant specularite stringers fracture filling and up to 5% medium-grain to fine-grain rusty pyrite.

83.20 83.40 V3B; AP

Basalte; Aphanitique

(83.2m-83.4m) to basalt subunits carbonatized/silicified with define contacts (43.4m-43.6m). Mineralized 1-2% Hematite spec stringers to fracture filling.

76.40 80.50 SR; FK; HM

Séricitisation; Altération en feldspath potassique; Hématisation

Pervasive carbonate/sericite flakes to patchy sericitization/k-feldspar with

hematite alternating intensity overall.

80.85 81.15 FK; CB; HM

Altération en feldspath potassique; carbonatization; Hématisation

One intense k-feldspar/Fe-carbonate/hematite alteration haloe at 80.85m-81.15m with at 45 deg tca, possible late syenite intrusive, with abundant specularite stringers fracture filling and up to 5% medium-grain to fine-grain rusty pyrite.

81.15 86.00 SR; FK; HM

Séricitisation; Altération en feldspath potassique; Hématisation

Pervasive carbonate/sericite flakes to patchy sericitization/k-feldspar with hematite alternating intensity overall.

86.00 88.30 HM; CB; FK

Hématisation; carbonatization; Altération en feldspath potassique

86m-88.3m stronger hematite/carbonate/k-feldspar with increasing specularite content and fluorite specs to fractureure filling. Mineralized up to 3% medium-grain to fine-grain rusty pyrite to blebs.

88.30 89.40 SR

Séricitisation

88.3m-89,4m increase of sericitization with 4-5% specularite disseminated amphibole replaced overprinting.

89.40 94.00 FK; CB; HM

Altération en feldspath potassique; carbonatization; Hématisation

89.4m-94m Stronger hematite/carbonate/k-feldspar with massive specularite patches to fractureure filling and fluorite specs to fractureure filling. Mineralized up to 1% medium-grain to fine-grain carbonate altered intergranular matrix to fracture filling.

94.00 96.20 CB; SR; FK

carbonatization; Séricitisation; Altération en feldspath potassique

Pervasive carbonate/sericite flakes to patchy sericitization/k-feldspar with hematite alternating intensiety overall.

76.40 80.85 PY01

Pyrite 1%

trace to 1% medium-grain pyrite disseminated

80.85 81.15 PY05; HS

Pyrite 5%; Spécularite

One intense k-feldspar/Fe-carbonate/hem alteration haloe at 80.85m-81.15m with at 45 deg tca, possible late syenite intrusive, with abundant specularite stringers fracture filling and up to 5% medium-grain to fine-grain rusty pyrite

81.15	86.00	PY00.5 **Pyrite 0.5%** mineralized up to 1% medium-grain to fine-grain carbonate altered intergranular matrix to fracture filling.
86.00	88.30	PY03; HS **Pyrite 3%; Spécularite** 86m-88.3m stronger hematite/carbonate/K with increasing specularite content andfluorite specs to fracture filling.mineralized up to 3% medium-grain to fine-grain rusty pyrite to blebs.
88.30	89.40	HS05 **Spécularite 5%** 88.3m-89,4m increase of sericitzation with 4-5% specularite disseminated o amphibole replaced overprinting.
89.40	94.00	PY01; HS **Pyrite 1%; Spécularite** 89.4m-94m stronger hematite/carbonate/K with massive specularite patches to fracture filling and fluorite specs to fracture filling.mineralized up to 1% medium-grain to fine-grain carbonate altered intergranular matrix to fracture filling.
94.00	96.20	PY00.5 **Pyrite 0.5%** trace pyrite to 0.5%pyrite

From	To	Description
96.20	**107.10**	I2D; PO **Syénite 70°; Porphyrique** syenite, porphyritic, medium grain, subhedral, 96.2m-101.5m increase of fracturing <10% carbonate/Specularite and carbonate filled fractures to veinlets at 60 degree to core axis, sericitization pervasieve to patches. Mineralized is 3% specularite fracture filling and disseminated to mm size blebs.lower contact at 70 degree to core axis quartz veining controlled. Mineralized 1% fine grain medium grain pyrite disseminated, Contact Mineralization only.101.5m-107.1m finer grain syenite(Dacite? lack of quartz granulation), porphyritic, altered, with fracturing starting at 102.3m-107.1m increasing at 50 degree to core axis to erratic with calcite/spec/pyrite filled at <10% . 101.5m-102.3m sericitization pervasive, carbonate/K-feldspar. 101.5m-107.2m increase of carbonate/hematite/K-feldspar pervasive with Mineralized up to 5% specularite fracture filling to disseminated/blebs. (104.5m-104.9m quartz.carbonate/albite vein reminance with <1% pyrite disseminated).

From	To	Len	SampleID	Au (ppm)	Method	Certificate
96.00	97.00		A0104131	0.0080	Au-ICP21	VO20089353
97.00	98.00		A0104132	0.0020	Au-ICP21	VO20089353
98.00	99.00		A0104133	0.0005	Au-ICP21	VO20089353
99.00	100.00		A0104134	0.0060	Au-ICP21	VO20089353
100.00	101.00		A0104135	0.0005	Au-ICP21	VO20089353
101.00	102.00		A0104137	0.0040	Au-ICP21	VO20089353
102.00	103.00		A0104138	0.0040	Au-ICP21	VO20089353
103.00	104.00		A0104139	0.0120	Au-ICP21	VO20089353
104.00	105.00		A0104140	0.0020	Au-ICP21	VO20089353
105.00	106.00		A0104141	0.0010	Au-ICP21	VO20089353
106.00	107.00		A0104142	0.0030	Au-ICP21	VO20089353

96.20	101.50	V1; PO **Volcanique felsique non divisé; Porphyrique** 101.5m-107.1m finer grain syenite(Dacite? lack of quartz granulation), porphyric. altered, with fracturing starting at 102.3m-107.1m increasing at 50 degree to-core-axis to erratic with lower-contact/specularite/pyrite filled at <10% . 1-1.5m-102.3m sericitizarion pervasive, carbonate/k-feldspar 101.5m-107.2m increase of Carbonate/hematite atite basalt/k-feldspar pervasive with Mineralized up to 5% specularite fracture filling to deiss/blebs.(104.5m-104.9m quartz.carbonate/albite vein reminance with <1% pyrite disseminated).	
96.20	101.50	CB; SR **carbonatization; Séricitisation** Sericitization/carbonatization pervasieve to patches.	
101.50	102.30	SR; CB; FK **Séricitisation; carbonatization; Altération en feldspath potassique** 101.5m-102.3m sericitizarion pervasive, carbonate/k-feldspar .	
102.30	107.20	CB; HM; FK **carbonatization; Hématisation; Altération en feldspath potassique** 101.5m-107.2m increase of Carbonate/hematite/k-feldspar pervasive.	
96.20	101.50	PY01; HS03 **Pyrite 1%; Spécularite 3%** mineralized is 3% specularite fracture filling and disseminated to mm size blebs.LC at 70 deg tca qtz veining controlled. mineralized 1% fine-grain medium-grain pyrite disseminated, Contact mineralization only.	
101.50	102.30	PY00.5 **Pyrite 0.5%** trace pyrite	
102.30	107.10	HS05 **Spécularite 5%** up to 5% specularite fracture filling to diss/blebs.	
96.20	101.50	FA **Fracturé(e) 60°** 96.2m-101.5m increase of fracturing <10% calcite/Specularite and carbonate filled fractures to veinlets at 60 degree to-core-axis.	60
101.50	107.10	FA **Fracturé(e) 50°** 102.3m-107.1m increasing at 50 degree to-core-axis to erratic with calcite/specularite/pyrite/ filled at <10%	50

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description
107.10	**111.30**	I2D; PO **Syénite; Porphyrique** Syenite. Coarse grain, porphyritic textur. 107.1m-111.3m coarser syenite, denser fracturing with one fault breccia at 109.4m-110.6m at 10 degree to core axis. Mixture of carbonate altered feldspar laths subrounded quartz crystals and fractured plagioclase phenocrysts. Cement is carbonate. Gougy at 110.2m-110.6m. Strong to intense hematite/carbonate/potassic alteration. Mineralized at trace Pyrite to 0.5% pyrite with 1% specularite/iron mica grains to flakes assemblage.
107.20	110.30	HM; CB; FK **Hématisation; carbonatization; Altération en feldspath potassique** Strong to intense hematite/carbonate/k-feldspar spr.
107.10	110.30	PY00.5; HS01 **Pyrite 0.5%; Spécularite 1%** mineralized trace pyrite to 0.5% pyrite with 1% specularite/iron mica grains to flakes assemblage.
107.10	109.40	FA **Fracturé(e)** Denser fracturing.
109.40	110.60	T1A; BY 10 **Brèche de faille 10°; Broyé** One fault breccia at 109.4m-110.6m at 10 degree to-core-axis, Gougy at 110.2m-110.6m.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
107.00	108.00		A0104143	0.0010	Au-ICP21	VO20089353
108.00	109.00		A0104144	0.0010	Au-ICP21	VO20089353
109.00	110.00		A0104145	0.0040	Au-ICP21	VO20089353
110.00	111.00		A0104146	0.0070	Au-ICP21	VO20089353

From	To	Description
111.30	**115.60**	I2D; PO **Syénite 40°; Porphyrique** Syenite. Fine grain, porphyritic texture, 111.3m-115.6m finer grain syenite (Dacite? lack of quartz granulation), porphyritic textured, altered, with <5% fracturing carbonate/Specularite at 20-35 degree to core axis, increasing sericitization, silicification in the end of the interval.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
111.00	112.00		A0104147	0.0030	Au-ICP21	VO20089353
112.00	113.00		A0104148	0.0020	Au-ICP21	VO20089353
113.00	114.00		A0104149	0.0020	Au-ICP21	VO20089353
114.00	115.00		A0104150	0.0050	Au-ICP21	VO20089353
115.00	116.00		A0104151	0.0020	Au-ICP21	VO20089353

Mineralization is up to 3-4% specularite blebs to fracture filling. Lower contact at 40 degree to core axis.

110.30 115.60 CB; SR; SI

carbonatization; Séricitisation; Silicification

Increasing sericitization, silicification in the end of the interval.

110.30 115.60 HS04

Spécularite 4%

mineralized up to 3-4% specularite blebs to fracture filling

From	To	Description
115.60	**137.10**	I2D; PO **Syénite; Porphyrique** Syenite. Porphyritic textured, fine to medium grained. 115.6m-129m increase of hematite/potassic alteration, fluorite patches , increase of fracturing with carbonate/specularite/Pyrite minor fluorite with strong silification patches at 126.3m-126.8m, with Mineralization up to 5% medium to fine grain Pyrite disseminated to fracture filling. 128.5m-128.6m one shear zone with 2-3cm mylonite contacts at 20 degree to core axis. Mineralization is trace to 0.5% Pyrite. 129.0m-130.0 m strong silification patches with 3-4% fine grain Pyrite disseminated and fracture controlled. 132.4m-137.1m syenite, altered, beige color, 2-3% late silicified finer grain, potassic alteration/hematite altered syenite injections, at 40 degree to core axis, fractured with carbonate/specularite/Pyrite/fluorite stronger sericitzation with stronger silicification patches to pervasive, fluorite blebs to mm size aggregates. Mineralization is 2-3% specularite, trace Pyrite overall. 132.3m-132.7m,134.2m-134.4m strong silification patches with 3-4% fine grain Pyrite disseminated, 136.5m-137.5m unconsolidated and broken core, RQD<5%.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
116.00	117.00		A0104153	0.0070	Au-ICP21	VO20089353
117.00	118.00		A0104154	0.0390	Au-ICP21	VO20089353
118.00	119.00		A0104155	0.0110	Au-ICP21	VO20089353
119.00	120.00		A0104156	0.0030	Au-ICP21	VO20089353
120.00	121.00		A0104157	0.0010	Au-ICP21	VO20089353
121.00	122.00		A0104158	0.0020	Au-ICP21	VO20089353
122.00	123.00		A0104159	0.0040	Au-ICP21	VO20089353
123.00	124.00		A0104160	0.0120	Au-ICP21	VO20089353
124.00	125.00		A0104161	**0.1070**	Au-ICP21	VO20089353
125.00	126.00		A0104162	**0.2520**	Au-ICP21	VO20089353
126.00	127.00		A0104163	0.0180	Au-ICP21	VO20089353
127.00	128.00		A0104164	0.0170	Au-ICP21	VO20089353
128.00	129.00		A0104165	0.0090	Au-ICP21	VO20089353
129.00	130.00		A0104166	0.0070	Au-ICP21	VO20089353
130.00	131.00		A0104167	0.0050	Au-ICP21	VO20089353
131.00	132.00		A0104168	0.0040	Au-ICP21	VO20089353
132.00	133.00		A0104170	0.0060	Au-ICP21	VO20089353
133.00	134.00		A0104171	0.0070	Au-ICP21	VO20089353
134.00	135.00		A0104172	0.0090	Au-ICP21	VO20089353
135.00	136.00		A0104173	0.0050	Au-ICP21	VO20089353
136.00	137.00		A0104174	0.0040	Au-ICP21	VO20089353

115.60	129.00	HM; FK; FL
		Hématisation; Altération en feldspath potassique; Fluoritisation
		115.6m-129m increase of hematite/k-feldspar alteration, Fluorite patches , increase of fractureuring with calcite/spec/pyrite minor Fluorite with strong silicification patches at 126.3m-126.8m.
129.00	130.00	SI
		Silicification
		129.0m-130.0 m strong silicification patches with 3-4% fine pyrite disseminated and fracture controlled.
130.00	132.30	CB
		carbonatization
		CB/SER
132.30	132.70	SI
		Silicification
		132.3m-132.7m, strong silicification patches with 3-4% fine pyrite disseminated.
132.70	134.12	CB
		carbonatization
		CB/SER.
134.12	135.40	SI
		Silicification
		134.2m-134.4m strong silicification patches with 3-4% fine pyrite disseminated.
135.40	137.60	CB
		carbonatization
		CB
115.60	126.30	PY00.5
		Pyrite 0.5%
		Traces to locally 0.5% fine pyrite.
126.30	126.80	PY05; HS
		Pyrite 5%; Spécularite
		126.3m-126.8m, with mineralized up to 5% medium-grain to fine-grain pyrite disseminated to fracture filling.
126.80	128.50	PY00.5; PY00.5
		Pyrite 0.5%; Pyrite 0.5%
		Traces to locally 0.5% fine pyrite.

128.50	128.60	PY00.5	
		Pyrite 0.5%	
		128.5m-128.6m one shear zone with 2-3cm myllonite contacts at 20 deg tca mz trace to 0.5% pyrite.	
129.00	130.00	PY04; HS	
		Pyrite 4%; Spécularite	
		129.0m-130.0 m strong silification patches with 3-4% fine pyrite disseminated and fracture controlled.	
130.00	132.40	PY00.5	
		Pyrite 0.5%	
		trace	
132.40	132.70	PY04	
		Pyrite 4%	
		132.3m-132.7m, strong silification patches with 3-4% fine pyrite disseminated	
132.70	134.20	PY00.5	
		Pyrite 0.5%	
		trace	
134.20	134.40	PY04	
		Pyrite 4%	
		132.3m-132.7m,134.2m-134.4m strong silification patches with 3-4% fine pyrite disseminated	
134.40	137.60	PY02; HS	
		Pyrite 2%; Spécularite	
		mineralized up to 2% fine-grain to very-fine-grain pyrite disseminated to fracture filling.	
128.50	128.60	CS	20
		Cisaillé(e) 20°	
		128.5m-128.6m one shear zone with 2-3cm Mylonite contacts at 20 degree to-core-axis mz trace to 0.5% pyrite.	

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

137.10 147.00 I2D; PO

Syénite; Porphyrique

Syenite.Orange color, porphyritic, coarse granulation, equigranur.

137.1m-140.5m, fractured at 60 degree to core axis, carbonate filled fractures, with stronger carbonate/hematite/potassic alteration, alternating intesity (137.6m-137.9m strong hematite with up to 3% fine to very fine grain disseminated Pyrite).

140.5m-147m syenite, orange, fractured shallower contact/carbonate filled late fracturing at 60degree to core axis, carbonate/Specularite/Pyrite, strong carbonate/hematite with sericite flakes to intergranular.

145.4m-147m increase of plagioclase laths, equigranular, with denser specularite/Pyrite filled fracturing 35-40 degree to core axis, possible syenite-monzonite, 146.7m-147m Fault gougy with disseminatedolution cavity component, with strong carbonate/ hematite Mineralization is up to 2% medium to fine grain Pyrite , 2-3% specularite stringers to fracture filling. Intense hematite overprinitng. Mineralization is up to 2% fine grain to very fine grain Pyrite disseminated to fracture filling.

140.50 147.00 I2; PO

Intrusif intermédiaire; Porphyrique

Monzo-syenite, increase of plagioclase, equigranular, with denser specul/pyrite filled fracturing 35-40 degree to-core-axis, possible syenite-to-monzonite.

137.60 137.90 HM

Hématisation

137.6m-137.9m strong Hem with up to 3% fine-grain to vfine-grain disseminated pyrite.

137.90 140.50 CC; HM; FK

Calcitisation; Hématisation; Altération en feldspath potassique

with stronger carbonate/hematiteK spar alternating intensity 137.6m-137.9m stronger Hematizatio.

140.50 147.00 CB; HM; SR

carbonatization; Hématisation; Séricitisation

Strong carbonate/hematite with sericite flakes to intergranular.

137.60 137.90 PY03

Pyrite 3%

137.6m-137.9m strong Hem with up to 3% fine-grain to very-fine-grain disseminated pyrite

137.00	138.00	A0104175	0.0040	Au-ICP21	VO20089353
138.00	139.00	A0104176	0.0070	Au-ICP21	VO20089353
139.00	140.00	A0104177	0.0050	Au-ICP21	VO20089353
140.00	141.00	A0104178	0.0170	Au-ICP21	VO20089353
141.00	142.00	A0104179	0.0050	Au-ICP21	VO20089353
142.00	143.00	A0104180	0.0040	Au-ICP21	VO20089353
143.00	144.00	A0104181	0.0080	Au-ICP21	VO20089353
144.00	145.00	A0104182	0.0100	Au-ICP21	VO20089353
145.00	146.00	A0104183	0.0080	Au-ICP21	VO20089353
146.00	147.00	A0104185	0.0110	Au-ICP21	VO20089353

137.90	146.70	PY02; HS	
		Pyrite 2%; Spécularite	
		nz up to 2% fine-grain to very-fine-grain pyrite disseminated to fracture filling	
146.70	147.00	PY02; HS03	
		Pyrite 2%; Spécularite 3%	
		146.7m-147m Fault gougy with dissolution cavity component, with strong carbonate/ Hem mineralized up to 2% medium-grain to fine-grain pyrite , 2-3% specul stringers to fracture filling.	
137.10	140.50	FA	60
		Fracturé(e) 60°	
		Fractured at 60 degree to-core-axis carb filled fractures.	
140.50	146.70	FA	60
		Fracturé(e) 60°	
		140.5m-147m syenitente, orange, fractured silicification/carbonate filled late fracturing at 60 degree to-core-axis, calcite/Specularite/pyrite.	
146.70	147.00	FJ	
		Faille	
		146.7m-147m Fault gougy with dissolution cavity.	

From	To	Description
147.00	**156.90**	I2D; PO
		Syénite; Porphyrique
		Syenite-monzonite.Pale beige with, porphyritic texture, medium granulation, pinkish to reddish patches, equigranular, twinning plagioclase phenos,medium-grained. 147m-148.7m. Mineralized ZONE. Reddish to orange, porphyritic, medium granulation, equigranular, feldspar/plagioclase 50/50, possible syenite/monzonite, strongly fractured increasing, with strong hematite pervasive overprinting for the upper unit and carbonate for the lower unit. Patchy fluorite to stringers/fracture filling, overprinting. 147m one carbonate 4cm basalt xenolith/fragment, carbonate/hematite/amphibole accicular actinolite, Mineralized at 10% pyrite/specularite/fluorite. Mineralized up to 15-20% fine to very fine grain Pyrite disseminated to fracture filling, 5-6% specularite/fluorite/pyrite disseminated to patches and fracture filling. Lower contact is graditional to irregular patches, Mineralization is up to 5% fine grain to very fine grain Pyrite.Weak carbonatisation/hematite overall.Mineralized up to 1% fine grain disseminated Pyrite.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
147.00	148.00		A0104186	0.0150	Au-ICP21	VO20089353
148.00	149.00		A0104187	0.0070	Au-ICP21	VO20089353
149.00	150.00		A0104188	0.0060	Au-ICP21	VO20089353
150.00	151.00		A0104189	0.0070	Au-ICP21	VO20089353
151.00	152.00		A0104190	0.0050	Au-ICP21	VO20089353
152.00	153.00		A0104191	0.0170	Au-ICP21	VO20089353
153.00	154.00		A0104192	0.0200	Au-ICP21	VO20089353
154.00	155.00		A0104193	0.0050	Au-ICP21	VO20089353
155.00	156.00		A0104194	0.0130	Au-ICP21	VO20089353
156.00	157.00		A0104195	0.0130	Au-ICP21	VO20089353

147.00	148.70	HM; CB; FL; AM	
		Hématisation; carbonatization; Fluoritisation; Amphibolitisation	
		Strong hematite pervasive overaprinting for the upper unit and carbonatized for the lower unit. Patchy Fluorite to stringers/fractureure filling, overprinting.	
148.70	156.90	CB; HM	
		carbonatization; Hématisation	
		Weak carbonatization/hematite overall.	
147.00	148.70	PY20; HS06	
		Pyrite 20%; Spécularite 6%	
		MIneralized up to 15-20% fine-grain to very-fine-grain pyrite disseminated to fracture filling, 5-6% specularite/fluorite/pyrite disseminated to patches and fracture filling.LC is graditional to irregular patches, mineralized up to 5% fine-grain to very-fine-grain pyrite	
148.70	156.90	PY01	
		Pyrite 1%	
		up to 1% fine-grain disseminated pyrite	
147.00	147.80	FA	
		Fracturé(e)	
		147m-148.7m, strongly fractured increasing intensity.	
147.80	165.20	FA	25
		Fracturé(e) 25°	
		Fractured with sericite/carbonate filled fractures to silicified mineralized late syenite mm size injections to patches at 25 degree to-core-axis.	

From	To	Description
156.90	**165.20**	I2D; PO
		Syénite; Porphyrique
		Silicified syenite (possible Dacite? low potassium). Beige to reddish, porphyritic alteration, altered, carbonate/silicified, with patchy hematite. Fractured with sercite/carbonate filled fractures to silicified. Mineralized late syenite mm size injections to patches at 25 degree to core axis. Carbonate/silicified/sericitization flakes with strong carbonate/hematite/potassic alteration patches in and around late syenite injections. Mineralization is trace Pyrite overall with up to 4% medium to fine grain Pyrite in and around silicified syenite injections.Lower contact is graditional.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
157.00	158.00		A0104196	0.0140	Au-ICP21	VO20089353
158.00	159.00		A0104197	0.0070	Au-ICP21	VO20089353
159.00	160.00		A0104198	0.0080	Au-ICP21	VO20089353
160.00	161.00		A0104199	0.0140	Au-ICP21	VO20089353
161.00	162.00		A0104201	0.0130	Au-ICP21	VO20089353
162.00	163.00		A0104202	0.0100	Au-ICP21	VO20089353
163.00	164.00		A0104203	0.0180	Au-ICP21	VO20089353
164.00	165.00		A0104204	0.0200	Au-ICP21	VO20089353

156.90 165.20 CB; SI; SR

carbonatization; Silicification; Sériciti sation

Carbonate/silicified/sericitization flakes woth strong carbonate/hematite/k patches in and around late SYE injections.

156.90 165.20 PY01

Pyrite 1%

mineralized trace pyrite overall with up to 4% medium-grain to fine-grain pyrite in and around silicified syenite injections.

From	To	Description
165.20	**167.00**	I2D; PO
		Syénite 40°; Porphyrique
		Syenite.
		Mineralized ZONE.
		Silicified syenite, coarse to medium granulation, porphyritic textured, equigranular, strongly fractured at 40degree to core axis with late erratic Pyrite/specularite/Fluorite filled to stockwork, weakly sheared concordant,
		silicified unit with strong carbonate/hematite patches to semipervasive. Fluorite is patchy to fracture filling.
		Mineralization at 10-11% fine to very fine grain Pyrite disseminated, rare Phyrrotite patches with 2-3% specularite.
		Lower contact is at 40 degree to core axis
165.20	167.00	SI; CB; HM; FL
		Silicification; carbonatization; Hématisation; Fluoritisation
		Silicified unit with strong carbonate/hematite patches to semipervasive. Fluorite is patchy to fracture filling.
165.20	167.00	PY11; HS03
		Pyrite 11%; Spécularite 3%
		Mineralization at 10-11% fine-grain to very-fine-grain pyrite disseminated, rare Po patches with 2-3% specularite.
165.20	167.00	FA 40
		Fracturé(e) 40°

From	To	Len	SampleID	Au (ppm)	Method	Certificate
165.00	166.00		A0104205	0.0100	Au-ICP21	VO20089353
166.00	167.00		A0104206	0.0130	Au-ICP21	VO20089353

Fracture(s) 40

Strongly fractured at 40 degree to-core-axis with late erratic pyrite/specularite/fluorite filled to stockwork, weakly sheared concordant.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
167.00	**169.70**	I2D; PO	167.00	168.00		A0104207	0.0120	Au-ICP21	VO20089353
		Syénite; Porphyrique	168.00	169.00		A0104209	0.0230	Au-ICP21	VO20089353
		Silicified syenite.	169.00	170.00		A0104210	0.0050	Au-ICP21	VO20089353
		Pale to medium grey beige color, locally patchy pink hematite alteration.							
		Fractured at 35-40 degree to core axis, with one shear deformation at 168.7m at 35 degree to core axis, <10% mm size late Silicified hematite altered late syenite injections with S2 sericite/carbonate filled fractures at around 40 degree to core axis.Carbonate, weakly sericitized. Fluorite patches to rare fracture filling.							
		Mineralization: up to 2% locally where late syenite injections otherwise trace to 0.5% Pyrite.							
167.00	169.80	SI; CB; FL; HM							
		Silicification; carbonatization; Fluoritisation; Hématisation							
		Carbonatized, weakly sericitized. Fluorite patches to rare fractureure filling.							
167.00	168.80	PY00.5							
		Pyrite 0.5%							
		Mineralization: up to 2% locally where late syenite injections otherwise trace to 0.5% pyrite							
167.00	168.70	FA 40							
		Fracturé(e) 40°							
		Fractured at 35-40 degree to-core-axis, <10% mm size late Silicified Hem altered late syenite injections with S2 sericite/carbonate filled fractures at around 40 degree to-core-axis.							
168.70	168.80	CS 35							
		Cisaillé(e) 35°							
		with one shear deformation at 168.7m at 35 degree to-core-axis.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

169.70	**171.16**	I2D; PO			170.00	171.00	A0104211	0.0130	Au-ICP21	VO20089353

Syénite 10°; Porphyrique

Syenite.
Mineralized ZONE.

Late fractured silicified syenite. Coarse to medium granulation, porphyritic textures, equigranular. Strongly fractured erratic (20-70 degree to core axis), to Pyrite/specularite/Fluorite filled to stockwork,one carbonate unit at 170.3m with luorite/Pyrite/specularite rims mm size envelope.Silicified unit with strong carbonate/hematite patches to semipervasive. Fluorite is patchy to fracture filling.

Mineralization at 10-11% fine to very fine grain Pyrite disseminated, rare Pyrrhotite patches with 2-3% specularite.

Lower contact is flat to 10 degree to core axis.

170.30 170.40 I4Q; MA

Carbonatite; Roche massive

One carbonatite unit at 170.3m with fluorite/pyrite/specul rims mm size envelope.

169.80 171.16 SI; CB; HM; FL

Silicification; carbonatization; Hématisation; Fluoritisation

Silicified unit with strong carbonate/hematite patches to semipervasive. Fluorite is patchy to fracture filling.

169.70 171.16 PY11; HS03

Pyrite 11%; Spécularite 3%

Mineralization at 10-11% fine-grain to very-fine-grain pyrite disseminated, rare Po patches with 2-3% specularite.

169.70 171.16 FA 25

Fracturé(e) 25°

Strongly fractured erratic (20-70 degree to-core-axis), to pyrite/specularite/fluorite filled to stockwork.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

171.00	172.00	A0104212	0.0050	Au-ICP21	VO20089353
172.00	173.00	A0104213	0.0040	Au-ICP21	VO20089353
173.00	174.00	A0104214	0.0030	Au-ICP21	VO20089353
174.00	175.00	A0104215	0.0060	Au-ICP21	VO20089353
175.00	175.90	A0104216	0.0030	Au-ICP21	VO20089353

171.16 **175.90** I2D; PO

Syénite; Porphyrique

Silicified syenite, to medium grey to beige color, locally patchy pink hematite alteration,fractured at 35-40 degree to core axis.

172.8m-172.9m. One strong silicifiedd hematite altered late syenite injection with S2 sericite/carbonate filled fractures at around 45 degree to core axis.

173.5m-173.6m strong silicifiedd hematite altered late syenite injection with S2 sericite/carbonate filled fractures at around 30 degree to core axis.Carbonate, weakly sericitized. Fluorite patches to rare fracture filling.Mineralization: up to 2% locally where late syenite injections otherwise trace to 0.5% Pyrite

171.16 175.90 CB; FL; SR

carbonatization; Fluoritisation; Séricitisation

Carbonatized, weakly sericitized. Fluorite patches to rare fractureure filling.

171.16 172.80 HS00.5

Spécularite 0.5%

Mineralization: up to 2% locally where late syenite injections otherwise trace to 0.5% pyrite

172.80 172.90 PY02

Pyrite 2%

172.8m-172.9m, one strong silicified Hem altered late syenite injection with S2 sericite/carboante filled fracture s at around 45 deg tca.

172.90 173.50 PY00.5

Pyrite 0.5%

trace to 0.5% fine-grain pyrite fracture filling

173.50 173.60 PY02

Pyrite 2%

73.5m-173.6m strong silicified Hem altered late syenite injection with S2 sericite/carboante filled fracture s at around 30 deg tca.

171.16 175.90 FA 40

Fracturé(e) 40°

Fractured at 35-40 degrees to-core-axis.

Downhole Survey

Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method
0.00	360.00	-55.00	Collar	39.00	354.51	-58.43	Reflex EZ-Gyro	48.00	360.00	-55.70	Reflex EZ-Gyro
63.00	351.70	-61.40	Reflex EZ-Gyro	93.00	359.80	-55.70	Reflex EZ-Gyro	105.00	0.30	-55.50	Reflex EZ-Gyro
135.00	0.33	-55.60	Reflex EZ-Gyro	165.00	0.03	-55.45	Reflex EZ-Gyro				

Drillhole Information

Easting: 705175.54
Northing: 5491601.50
Elevation: 283.44
Azimuth 9.00
Dip -50.00

Drilling Information

DrillCo: Roby
DrillID: R4
DrillStart: 10-Mar-20
DrillEnd: 15-Mar-20
Length (m): 347.20

Logging Information

LogBy: E. Stavre (OGQ #2144)
LogStart: 15-Mar-20
LogEnd: 18-Mar-20

Drillhole Summary

Intercepts >= 0.1 ppm

Hole_ID	From	To	Length	Au (ppm)
DO-20-275	59	61	2	0.13
DO-20-275	76	77	1	0.317
DO-20-275	82	83	1	0.147
DO-20-275	88	94	6	0.292
DO-20-275	98	100	2	0.611
DO-20-275	103	104	1	0.198
DO-20-275	110	111	1	2.55
DO-20-275	114.5	115.5	1	0.36
DO-20-275	120	125	5	0.435
DO-20-275	169	172	3	0.166
DO-20-275	179	182	3	1.957
DO-20-275	208	209	1	0.138
DO-20-275	213	217	4	0.319
DO-20-275	221	226	5	0.282
DO-20-275	236	255	19	0.292
DO-20-275	263	265	2	0.358
DO-20-275	269	282	13	0.271
DO-20-275	286	301	15	0.482
DO-20-275	312	314	2	0.339
DO-20-275	318	329	11	0.281

E. Stavre (OGQ #2144)
12-Jan-22

Lithology and Assay Results

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
0.00	**33.00**	M-T **Mort terrain** Overburden. Altered basalts, mudstone boulders.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
33.00	**40.00**	I2D; PO **Syénite 40°; Porphyrique** Syenite. Porphyritic coarse textured syenite/Monzonite, mm size feldspar/plagioclase ratio 70/30 with <10% quartz, equigranular to subrounded, ~15% sil/carbonate filled fracturing at 50degree to core axis, limonite patches, silicification/carbonate/K-feldspar alteration overall. Few strong carbonate/sericite altered basalt with strong semipervasive Leucoxene. (36.94m-37.2)Stronger potassic alteration/hematite/Fe-carbonate basalt at (37.8m-38.6m), fenitization. Leucoxene. 39.2m-30.6m flow breccia carbonate/hematite cement. Mineralized at 39.2m-40.6m ~3-4% Pyrite belbs to disseminated. Rare fracture fillings. 40.6m-41.5m ~2% Pyrite disseminated, 41.5m-4.9m ~3% fine grain Pyrite, disseminated. Elevated REE. Lower contact at 40 degree to core axis.	33.00	34.00		V472453	0.0020	Au-ICP21	VO20069226
			34.00	35.00		V472454	0.0030	Au-ICP21	VO20069226
			35.00	36.00		V472455	0.0070	Au-ICP21	VO20069226
			36.00	37.00		V472457	0.0040	Au-ICP21	VO20069226
			37.00	38.00		V472458	0.0030	Au-ICP21	VO20069226
			38.00	39.00		V472459	0.0005	Au-ICP21	VO20069226
			39.00	40.00		V472460	0.0590	Au-ICP21	VO20069226
36.90	37.20	V3B; AP **Basalte; Aphanitique** Few strong carbonate/sericite altered basalt with strong semipervasive leucoxene. (36.94m-37.2).							
37.20	38.60	LM; CB; SI; FK; HM **Limonitisation; carbonatization; Silicification; Altération en feldspath pot** Limonite patches, silicification/carbonate/K-sp overall. Stronger k-							

feldspar/hematiteFe-carb at V3B (37.8m-38.6m), fenitization.

38.60 40.60 LX; CB; HM

Leucoxene; carbonatization; Hématisation

With stronger semipervasive leucoxene. 39.2m-40.6m flow breccia carbonate/hematite cement.

39.20 40.60 PY04

Pyrite 4%

Mineralized at 39.2m-40.6m ~3-4% pyrite belbs to disseminated, rare fracture fillings.

37.20 39.20 FA 50

Fracturé(e) 50°

~15% silicification/carbonate filled fracturing at 50 degree to-core-axis.

39.20 40.60 T1A

Brèche de faille

With Lx. 39.2m-40.6m flow breccia carbonate/hematite cement.

From	To	Description
40.00	**68.00**	V3B AP; BQ **Basalte; Aphanitique; Brèche de coulée** Basalt.Green aphanitic, heterogenous, strong epidote signature semipervasive, with spotty hematite/Fe-carbonate alteration. Few hypermagnesian basalt units, increasing down apex. 40m-41.8m strong Fe_carbonate/silicification altered basalt with semipervasive fluorite.49.4m-49.7m flow breccia carbonate/epidote cement. 52.2m-52.3m Flow breccia. 53.1m-53.3 gabbroic basalt, increasing carbonatisation. Mineralized trace to 1% fine grain Pyrite to bleby 56.8m-66.7m increase of magnetite. Stronger fenitization. K-Potassic alteration/hematite/carbonate pervasive increasing. Moderate shearing at 50-55degree to core axis. 60.7m-61.6m hypermagnesian Basalt with Increased calicification, pervasive to penetrative. Stronger hematite/chlorite.Mineralization up to 5% medium to fine grain Pyrite disseminated.Mineralized at at 60m-61.3m ~3-4% fine grain Pyrite disseminated to blebs. 1156.8m-60m strong carbonate filled fracturing unit, ~55 degree to core axis overall.@58.8m-59.3m one shear deformation at 20 degree to core axis.Mineralized at 1-2% fine grain disseminated Pyrite overall.63m-64m flow breccia carbonate/chlorite/hematite cement, 65m-65.6m fenitized flow breccia with up to 2% fine grain Pyrite disseminated.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
40.00	41.00		V472461	0.0290	Au-ICP21	VO20069226
41.00	42.00		V472462	0.0010	Au-ICP21	VO20069226
42.00	43.00		V472463	0.0240	Au-ICP21	VO20069226
43.00	44.00		V472464	0.0005	Au-ICP21	VO20069226
44.00	45.00		V472465	0.0010	Au-ICP21	VO20069226
45.00	46.00		V472466	0.0020	Au-ICP21	VO20069226
46.00	47.00		V472467	0.0070	Au-ICP21	VO20069226
47.00	48.00		V472468	0.0005	Au-ICP21	VO20069226
48.00	49.00		V472469	0.0050	Au-ICP21	VO20069226
49.00	50.00		V472470	0.0010	Au-ICP21	VO20069226
50.00	51.00		V472471	0.0040	Au-ICP21	VO20069226
51.00	52.00		V472472	0.0005	Au-ICP21	VO20069226
52.00	53.00		V472474	0.0020	Au-ICP21	VO20069226
53.00	54.00		V472475	0.0005	Au-ICP21	VO20069226
54.00	55.00		V472476	0.0005	Au-ICP21	VO20069226
55.00	56.00		V472477	0.0005	Au-ICP21	VO20069226
56.00	57.00		V472478	0.0005	Au-ICP21	VO20069226
57.00	58.00		V472479	0.0010	Au-ICP21	VO20069226
58.00	59.00		V472480	0.0170	Au-ICP21	VO20069226
59.00	60.00		V472481	**0.1220**	Au-ICP21	VO20069226

49.40	49.70	V3B; BQ	
		Basalte; Brèche de coulée	
		49.4m-49.7m flow breccia carbonate/epidote cement.	
52.20	52.30	V3B; BQ	
		Basalte; Brèche de coulée	
		52.2m-52.3m Flow breccia.	
53.10	53.30	V3B; VE	
		Basalte; Vésiculaire	
		53.1m-53.3 gabbroic basalt, increasing carbonatization.	
60.70	61.60	V3F; AP	
		Basalte hyper-magnésien; Aphanitique	
		60.7m-61.6m medium-grain Basalt increased calcitization, pervasive to penetrative. Stronger hematite/chlorite. Mineralization up to 5% medium-grain to fine-grain pyrite disseminated.	
65.00	65.60	V3B; BQ	
		Basalte; Brèche de coulée	
		65m-65.6m fenitized flow breccia with up to 2% fine-grain pyrite disseminated.	
40.60	41.80	CB; SI; FL	
		carbonatization; Silicification; Fluoritisation	
		40m-41.8m strong Fe_carbonate/sil altered basalt with semipervasive fluorite.	
41.80	56.80	EP; CB	
		Épidotisation; carbonatization	
		Strong epidote signature semipervasive, with spotty hematite/Fe-carb alteration.	
56.80	60.70	FK; CB; HM; MG	
		Altération en feldspath potassique; carbonatization; Hématisation; Magn	
		56.8m-66.7m increase of magnetite. Stronger fenitization. k-feldspar/hematitecarb pervasive increasing.	
60.70	61.60	BO; CC; HM; CL	
		Biotitisation; Calcitisation; Hématisation; Chloritisation	
		60.7m-61.6m medium-grain Basalt incerased calicification, pervasive to penetrative. Stronger hematite/chlorite.	
61.60	66.70	MG; CB; FK; HM	
		Magnétite; carbonatization; Altération en feldspath potassique; Hématisa	
		Increase of magnetite. Stronger fenitization. k-feldspar/hematitecarb pervasive increasing.	

60.00	61.00	V472482	**0.1380**	Au-ICP21	VO20069226
61.00	62.00	V472483	0.0160	Au-ICP21	VO20069226
62.00	63.00	V472484	0.0005	Au-ICP21	VO20069226
63.00	64.00	V472485	0.0010	Au-ICP21	VO20069226
64.00	65.00	V472486	0.0050	Au-ICP21	VO20069226
65.00	66.00	V472487	0.0020	Au-ICP21	VO20069226
66.00	67.00	V472489	0.0020	Au-ICP21	VO20069226
67.00	68.00	V472490	0.0005	Au-ICP21	VO20069226

66.70	68.00	EP; CB **Épidotisation; carbonatization** Strong epidote signature semipervasive, with spotty hematite/Fe-carb alteration.	
40.60	41.50	PY02 **Pyrite 2%** 40.6m-41.5m ~2% pyrite disseminated	
41.50	41.90	PY03 **Pyrite 3%** 41.5m-4.9m ~3% fine-grain pyrite, disseminated . Elevated REE.	
41.90	60.70	PY01 **Pyrite 1%** Mineralized at 1-2% fine-grain disseminated pyrite overall.	
60.70	61.60	PY05 **Pyrite 5%** 60.7m-61.6m.Mineralization up to 5% medium-grain to fine-grain pyrite disseminated.	
61.60	65.00	PY01 **Pyrite 1%** Trace to 1% pyrite disseminated	
65.00	65.60	PY02 **Pyrite 2%** 65m-65.6m fenitized flow breccia with up to 2% fine-grain pyrite disseminated .	
65.60	68.00	PY01 **Pyrite 1%** Trace to 1% pyrite	
56.80	59.30	CS **Cisaillé(e) 20°** 56.8m-60m strong calcite filled fracturing unit, ~55 degree to-core-axis overall58.8m-59.3m one shear deformation ar 20 degree to-core-axis.	20
59.30	60.00	FA **Fracturé(e) 55°** 56.8m-60m strong calcite filled fracturing unit, ~55 degree to-core-axis overall.	55

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

68.00 **68.20** I2D; PO

Syénite; Porphyrique

Syenite.

Medium granulation, reddish, porphyritc texture, equigranular to subehidral feldspar(subunit), microfractured,with potassic alteration/carbonate/Fe-carbonate stain.

Mineralized up to 2% Pyrite.

68.00 68.20 FK; CB

Altération en feldspath potassique; carbonatization

Potassic-K,/carbonate/Fe-carbonate stain.

68.00 68.20 PY02

Pyrite 2%

MIneralized up to 2% pyrite.

From	To	Description
68.20	**76.80**	V3F; AP **Basalte hyper-magneticnésien; Aphanitique** Hypermagnesian Basalt.Dark green , magnetic, aphanitic, biotite/hematite/carbonate/chlorite alteration package.68.2m—68.7m syenite mm size injections/digested, hematite/Potassic alteration/carbonate, with Leucoxene overprinting. 73m-73.1m syenite, mm size injection, ~2% Pyrite, 73.1m-73.3m flat quartz/carbonate veining. Mineralized up to 1% Pyrite73.4m-73.5m flow breccia, 74.14m-74.28 one carbonate unit, 74.28m-74.68m syenite, porphyritic texture, medium granulation, reddish, K-feldspar/hematite/carbonate/silicification. Mineralization up to 4% fine grain Pyrite disseminated.74.68m-76.8m basalt with <25% syenite K-feldspar/hematite/carbonate/ with alternating silicified mm size syenite injections to melange. Mineralization up to 4% fine to very fine grain Pyrite disseminated.
73.00	73.10	I2D; PO **Syénite; Porphyrique** 73m-73.1m syenite, mm size injection, ~2% pyrite.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
68.00	69.00		V472491	0.0040	Au-ICP21	VO20069226
69.00	70.00		V472492	0.0120	Au-ICP21	VO20069229
70.00	71.00		V472493	0.0050	Au-ICP21	VO20069229
71.00	72.00		V472494	0.0070	Au-ICP21	VO20069229
72.00	73.00		V472495	0.0030	Au-ICP21	VO20069229
73.00	74.00		V472496	0.0060	Au-ICP21	VO20069229
74.00	75.00		V472497	0.0070	Au-ICP21	VO20069229
75.00	76.00		V472498	0.0430	Au-ICP21	VO20069229
76.00	77.00		V472499	**0.3170**	Au-ICP21	VO20069229

73.40	73.50	BQ **Brèche de coulée** 73.4m-73.5m flow breccia.
74.10	74.28	I4Q; MA **Carbonatite; Roche massive** 74.14m-74.28 one carbonatite unit.
74.28	74.68	I2D; PO **Syénite; Porphyrique** 74.28m-74.68m syenite, porphyritic, medium, reddish, K-feldspar/ hematite/carbonate/sil. Mineralized up to 4% fine-grain pyrite disseminated.
74.68	75.08	V3B (I2D); AP **Basalte avec 5 à 25% de syénite; Aphanitique** 74.68m-76.8m basalt with <25% syenite K-feldspar/ hematite/carbonate/ with alternatin silica mm size syenite injections to melange. Mineralized up to 4% fine-grain to fine-grain pyrite disseminated.
68.20	68.70	HM; FK; CB; LX **Hématisation; Altération en feldspath potassique; carbonatization; Leuco** Hematite/k-feldspar/carb, with leucoxene overprinting.
68.70	74.68	BO; HM; CB; CL **Biotitisation; Hématisation; carbonatization; Chloritisation** Bio/hematitecarbonate/chlorite.
74.68	76.80	FK; CB; HM; SI **Altération en feldspath potassique; carbonatization; Hématisation; Silicifi** K-feldspar/hematitecarbonate/ with alternatin sil'd.
68.20	73.00	PY00.5 **Pyrite 0.5%** trace pyrite
73.00	73.10	PY02 **Pyrite 2%** syenite, mm size injection, ~2% pyrite,
73.10	73.30	PY01 **Pyrite 1%** qtz/carb veining. mineralized up to 1% pyrite
73.30	74.28	PY00.5 **Pyrite 0.5%** trace pyrite

74.28	74.68	PY04 **Pyrite 4%** mineralized up to 4% fine-grain pyrite disseminated.
74.68	76.80	PY04 **Pyrite 4%** mineralized up to 4% fine-grain to very-fine-grain pyrite disseminated .

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
76.80	**77.20**	V3B AP **Basalte; Aphanitique** Basalt. Reddish, aphanitic, (subunit).<10% fractured, carbonate/Pyrite filled fracturing.Potassic alteration/carbonate/hematite, strong fenitization.Mineralized up to 8% fine to very fine grain Pyrite.							
76.80	77.40	CB; FK; HM **carbonatization; Altération en feldspath potassique; Hématisation** Potassic/carbonate/hematite, strong fenitization.							
76.80	77.20	PY08 **Pyrite 8%** Mineralized up to 8% fine-grain to very-fine-grain pyrite.							
76.80	77.70	FA **Fracturé(e)** <10% fractured, carbonate/pyrite filled fracturing.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
77.20	**77.40**	V3B AP **Basalte; Aphanitique** Basalt. Lesser Pyrite content ~3% Pyrite							
77.20	77.40	PY03 **Pyrite 3%** V3B lesser pyrite content ~3% pyrite							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
77.40	**77.70**	V3B AP **Basalte; Aphanitique** Basalt. Increase of fenitization with semipervasive Leucoxene overprinting marking up lower contact. Melange to syenite digestions, Mineralized up to 2% fine grain Pyrite.	77.00	78.00		V472500	0.0170	Au-ICP21	VO20069229
77.40	77.70	HM; FK; CB; LX **Hématisation; Altération en feldspath potassique; carbonatization; Leuco** Fenitization with semipervasive leucoxene overprinting marking up LC.							
77.40	77.70	PY02 **Pyrite 2%** mineralized up to 2% fine-grain pyrite.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
77.70	**77.90**	I2D; PO **Syénite; Porphyrique** Syenite. Porphyritic, coarse granulation, feldspar phenos, Potassic alteration/hematite/silicification/carbonate, 10-15% silicified/carbonate filled fractures. Mineralizedup to 4-5% fine to very fine grain Pyrite disseminated. <1% fracture filling specularites.							
77.70	77.90	CB; HM; SI; FK **carbonatization; Hématisation; Silicification; Altération en feldspath pota** K-feldspar/hematitesilicification/carb, FENITIZATION.							
77.70	77.90	PY05; HS01 **Pyrite 5%; Spécularite 1%** mineralized up to 4-5% fine-grain to very-fine-grain pyrite disseminated . <1% fracture filling specularite							

77.70	77.90	FA	
		Fracturé(e)	
		10-15% silicification/carbonate filled fractures.	

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
77.90	**82.00**	V3F; AP	78.00	79.00		V472501	0.0070	Au-ICP21	VO20069229
		Basalte hyper-magneticnésien; Aphanitique	79.00	80.00		V472502	0.0040	Au-ICP21	VO20069229
		Hypermagnesian basalt.Magnetic, spotty fenitization, biotite/hematite/magnetite alteration package, with stronger Potassic alteration/hematite/Fe-carbonate locally, 15% carbonate filled fractures at 50-55degree to core axis, 81.9m-82m one 15 degree to core axis shear marking up Lower contact.78.1m-78.3m flow breccia, carbonate/chlorite cement, 88m one 3mm carbonate. Mineralized up to 2% fine grain Pyrite disseminated overall to blebby.Lower contact is graditional.	80.00	81.00		V472503	0.0450	Au-ICP21	VO20069229
			81.00	82.00		V472505	0.0500	Au-ICP21	VO20069229
78.10	78.30	V3B; BQ							
		Basalte; Brèche de coulée							
		78.1m-78.3m flow breccia.							
77.90	82.00	BO; HM; MG; FK							
		Biotitisation; Hématisation; Magnétite; Altération en feldspath potassiqu							
		Bio/hematite/magnetite, with stronger k-feldspar/hem+G53atite, Fe-carb locally.							
77.90	82.00	PY02							
		Pyrite 2%							
		mineralized up to 2% fine-grain pyrite disseminated overall to blebby.							
77.90	82.00	FA 55							
		Fracturé(e) 55°							
		15% carbonate filled fractures at 50-55 degree to-core-axis.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
82.00	**84.00**	V3B (I2D); AP	82.00	83.00		V472506	**0.1470**	Au-ICP21	VO20069229
		Basalte avec 5 à 25% de syénite; Aphanitique	83.00	84.00		V472507	0.0240	Au-ICP21	VO20069229
		Basalt. Magnetic with <25% syenite thin mm size injections,. Increasing fenitzation. Mineralized up to 5% fine to very fine grain Pyrite disseminated to fracture filling.							

82.00	84.00	FK; CB; HM **Altération en feldspath potassique; carbonatization; Hématisation** Increasing fenitzation.
82.00	84.00	PY05 **Pyrite 5%** mineralized up to 5% fine-grain to very-fine-grain pyrite disseminated to fracture filling.
82.00	84.00	FA **Fracturé(e)** fractured zone.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
84.00	**88.10**	V3F; I4Q; AP; BQ **Basalte hyper-magneticnésien; carbonate; Aphanitique; Brèche de coulée** Hypermagnesian basalt. Magnetic, (carbonate) green to dark green color, aphanitic, weakly foliated, pseudo brecciated texture, with rare feldspar phenos.Unit is heterogenous, with fine grain strong carbonate altered carbonate? fragments, elevated REE'smoderate fenitization, replacement chlorite/ biotitization. Foliated at 50 degree to core as. Mineralization is up to 2% fine grain Pyrite disseminated.Lower contact is graditional. Mineralized at 5% medium to fine grain Pyrite disseminated.	84.00	85.00		V472508	0.0140	Au-ICP21	VO20069229
			85.00	86.00		V472509	0.0180	Au-ICP21	VO20069229
			86.00	87.00		V472510	0.0090	Au-ICP21	VO20069229
			87.00	88.00		V472511	0.0120	Au-ICP21	VO20069229
88.00	88.03	I4Q **Carbonatite** 88m one 3mm carbonatite.							
84.00	88.10	HM; CB; BO; CL; CC **Hématisation; carbonatization; Biotitisation; Chloritisation; Calcitisation** Moderate fenitization, replacment chlorite/ biotitization.							
84.00	88.10	PY02 **Pyrite 2%** mineralized up to 2% fine-grain pyrite disseminated .							
84.00	88.10	PS **Plissé(e)** Foliated at 50 degree to-core-axis,50.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
88.10	**89.20**	V3B AP; I4Q **Basalte 35°; Aphanitique; carbonate** Basalt. Dark green to reddish color, aphanitic, pseudobrecciated texture, moderate increasing fenites, carbonate reminant,carbonate filling fracturing <5% at 35-40 degree to core axis, decreasing, biotitization is present.Stronger K-feldspar/hematite/carbonate. Mineralized up to 5% fine grain Pyrite disseminated to Pyrite stringers.Lower contact is distinguished at 35 degree to core axis. Mineralized up to 7-8% Pyrite stringers.	88.00	89.00		V472512	**0.5850**	Au-ICP21	VO20069229
88.10	89.20	FK; CB; HM; BO; CC **Altération en feldspath potassique; carbonatization; Hématisation; Biotiti** Stronger k-feldspar/hematitecarb.							
88.10	89.20	PY05 **Pyrite 5%** mineralized up to 5% fine-grain pyrite disseminated to pyrite stringers.							
89.20	**90.30**	I2D; PO **Syénite; Porphyrique** Syenite. Reddish to greysh, coarse grain, porphyritic texture. Moderate alteration with K-feldspar hematite with strong pervasive silicification, with sericite flakes or intergranular, edges.Silica filled rare fracturing at high angle to core axis 50-60 degree to core axis. Mineralized at around 2% fine grain Pyrite.	89.00	90.00		V472513	**0.6200**	Au-ICP21	VO20069229
89.20	90.30	FK; HM; SI; SR **Altération en feldspath potassique; Hématisation; Silicification; Séricitisat** K-feldspar hematite with strong pervasive silicification, with sericite flakes or intergranular, edges.							
89.20	90.30	PY02 **Pyrite 2%** MIneralized at around 2% fine-grain pyrite							

From	To	Description
90.30	**93.97**	V3B (I2D); AP **Basalte avec 5 à 25% de syénite 50°; Aphanitique** Basalt. Green to greysh color, aphanitic, to pseudo brecciated, feldspar phenos <15% syenite digestion?, magnetic,sparse fracturing with 10% flat to 15degree to core axis. Fe-carbonate/chlorite fracture filling . One flat lying extensional veinlet at 92m. Trace pyrite.One shear deformation at 92.96m at 45degree to core axis, fractured with 25% silicified filled veinlets.Concordant. Mineralized at 2% Pyrite blebs to stringers.Altered Fe-carbonate/silicification. Mineralized up to 2% fine grain Pyrite disseminated. Lower contact is sharp at 50 degree to core axis.
90.30	93.97	CB; HM; SI **carbonatization; Hématisation; Silicification** Fe-carbonate/sil.
93.30	93.97	PY02 **Pyrite 2%** mineralized at 2% pyrite blebs to stringers.
92.96	93.00	CS 45 **Cisaillé(e) 45°** One shear deformation at 92.96m at 45 degree to-core-axis, fractured with 25% sil'd filled veinlets.concordant.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
90.00	91.00		V472514	**0.3230**	Au-ICP21	VO20069229
91.00	92.00		V472515	0.0140	Au-ICP21	VO20069229
92.00	93.00		V472516	0.0840	Au-ICP21	VO20069229
93.00	94.00		V472517	**0.1270**	Au-ICP21	VO20069229

From	To	Description
93.97	**94.60**	I2D; PO; I2D V3B **Syénite 50°; Porphyrique; Syénite avec 5 à 25% de basalte** Syenite. Reddish, porphyritic color, coarse to medium granulation, weak to moderate fracturing rare silicified filled fractures, hematite/carbonate altered mafic digestion. 94.5m-94.65m flow breccia, microbrecciated.Carbonate/silicification/ weak sericite edges to intergranular with weak to moderate K-feldspar.Mineralized

From	To	Len	SampleID	Au (ppm)	Method	Certificate
94.00	95.00		V472518	0.0570	Au-ICP21	VO20069229

at 3-4% medium to fine grain Pyrite disseminated to fracture fillg.

Lower contact is flow breccia defined ~50degree to core axcis.

94.50 94.65 V3B; BQ

Basalte; Brèche de coulée

94.5m-94.65m flow breccia, microbrecciated.

93.97 94.60 SI; CB; SR

Silicification; carbonatization; Séricitisation

Carbonate/sil'c/ weak sericite edges to intergranular with weak to moderate k-feldspar.

93.97 94.60 PY04

Pyrite 4%

MIneralized at 3-4% medium-grain to fine-grain pyrite disseminated.to fracture filling.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
94.60	**95.40**	V3B (I2D); AP **Basalte avec 5 à 25% de syénite; Aphanitique** Basalt. Green to light grey color, aphanitic, with <20% syenite digestions. K-feldspar/hematite/carbonate. Spotty Leucoxene overprinting. Mineralized up to 1-2% fine grain Pyrite. Lower contact is at 55degree to core axis.							
94.60	95.40	FK; CB; HM; LX **Altération en feldspath potassique; carbonatization; Hématisation; Leuco** K-feldspar/hematiteCarb. Spotty leucoxene overprinting.							
94.60	95.40	PY02 **Pyrite 2%** mineralized up to 1-2% fine-grain pyrite							
94.60	95.40	FA **Fracturé(e)** Fractured.							

From	To	Description
95.40	**97.90**	I2D V3B; PO
		Syénite avec 5 à 25% de basalte 80°; Porphyrique
		Syenite.Grey to spotty orange, medium grain, Porphyritic textre.
		97.45m-97.7m one fine grain fentized basalt unit with <10% felsic injections. Mineralized up to 5% medium to fine grain Pyrite disseminated.Overall K-feldspar/carbonate/hematite/silicification.Mineralized up to ~2% fine grain Pyrite disseminated.Lower contact is 80 degree to core axi Mineralized at 5% Pyrite stringers to blebs.
97.45	97.70	V3B (I2D)
		Basalte avec 5 à 25% de syénite
		One fine grain fentized basalt unit with <10% felsic injections. Mineralized up to 5% medium-grain to fine-grain pyrite disseminated.
97.70	97.90	I4Q
		Carbonatite 25°
		102m-102.5m slightly deformed fine grain carbonatite at 25 degree to-core-axis lower contact.
95.40	97.90	FK; CB; HM; SI
		Altération en feldspath potassique; carbonatization; Hématisation; Silicifi
		Overall k-feldspar/carbonate/hematiteSil.
95.40	97.45	PY02
		Pyrite 2%
		Mineralizae up to ~2% fine-grain pyrite disseminated
97.45	97.70	PY05
		Pyrite 5%
		97.45m-97.7m one fine grain fentized V3B unit with <10% felsic injections. Mineralized up to 5% medium-grain to fine-grain pyrite disseminated
97.70	97.90	PY02
		Pyrite 2%
		~2% fine-grain pyrite disseminated .

From	To	Len	SampleID	Au (ppm)	Method	Certificate
95.00	96.00		V472519	0.0360	Au-ICP21	VO20069229
96.00	97.00		V472520	0.0130	Au-ICP21	VO20069229
97.00	98.00		V472522	0.0210	Au-ICP21	VO20069229

From	To	Description

From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description
97.90	**102.50**	V3B AP; I4Q **Basalte; Aphanitique; carbonate** Basalt.Green to dark green color, heterogenous unit with <30% dark grey fine grain carbonate, aphanitic, 10% carbonate filled fractured at 30degree to core axis. 102m-102.5m slightly deformed fine grain carbonate at 25 degree to core axis lower contact. Overall moderate fenitization, hematite/carbonate/biotite alteration package with weak potassic alteration. Mineralization trace to 1% Pyrite.
97.90	102.50	CB; HM; BO; FK **carbonatization; Hématisation; Biotitisation; Altération en feldspath pota** Overall moderate fenitization, hematite/carbonate/bio with weak K.
97.90	102.50	PY00.5 **Pyrite 0.5%** Trace pyrite
97.90	102.50	FA 30 **Fracturé(e) 30°** 10% calcite filled fractured at 30 degree to-core-axis.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
98.00	99.00		V472523	**0.8570**	Au-ICP21	VO20069229
99.00	100.00		V472524	**0.3640**	Au-ICP21	VO20069229
100.00	101.00		V472525	0.0030	Au-ICP21	VO20069229
101.00	102.00		V472526	0.0050	Au-ICP21	VO20069229
102.00	103.00		V472527	0.0030	Au-ICP21	VO20069229

From	To	Description
102.50	**103.18**	I2D; PO **Syénite 45°; Porphyrique** Syenite. Pink color, porphyritic texture, coarse granulation, mm size felds laths, weakly fractured, carbonate/silicification, sericte flakes to intergranuar, microbreccia? Mineralized up up to 1% pyrite. Lower contact is at 40 degree to core axis. Shear defined and distingushed.
102.50	103.18	CB; SI; SR **carbonatization; Silicification; Séricitisation** Carbonate/sil'd, ser'c flakes to intergranular.
102.50	103.18	PY01 **Pyrite 1%** Mineralized up up to 1% pyrite

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
103.18	**107.20**	V3B I4Q; AP **Basalte; carbonate; Aphanitique** Basalt. Posisibly carbonate, dark grey color, fine granulation, massive, sheared alternating hematite/K-feldspar altered syenite coarse grain, (105.7m-105.8m). ~10% carbonate filled fractures. silicification, hematite.Mineralized trace pyrite.	103.00	104.00		V472528	**0.1980**	Au-ICP21	VO20069229
			104.00	105.00		V472529	0.0200	Au-ICP21	VO20069229
			105.00	106.00		V472530	0.0310	Au-ICP21	VO20069229
			106.00	107.00		V472531	0.0290	Au-ICP21	VO20069229
105.70	105.80	I2D; PO **Syénite; Porphyrique** Hematite/basalt/k-feldspar altered syenite coarse grain.							
103.18	107.20	CC; HM **Calcitisation; Hématisation** Calcification, hem.							
103.18	107.20	PY00.5 **Pyrite 0.5%** Mineralized up up to 0.5% pyrite.							
103.18	103.25	CS **Cisaillé(e)** sheared define contact.							
103.25	107.20	FA **Fracturé(e)** ~10% calcite filled fractures.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
107.20	**114.60**	V3B AP **Basalte 50°; Aphanitique** Basalt. Green to reddish, aphanitic, <5% carbonate <2cm subunit. ~10% carbonate filled fractures at 45-50 degree to core axis. Alternating fenitization with Fe-carbonate, Amphibole replacing, hematite/carbonate/K-feldspar-feldsper overall.Mineralization up to 1% pyrite overall.Lower contact is at 50 degree to core axis sheared with up to 7% medium to fine grain Pyrite disseminated to stringers.	107.00	108.00		V472532	0.0030	Au-ICP21	VO20069229
			108.00	109.00		V472533	0.0010	Au-ICP21	VO20069229
			109.00	110.00		V472534	0.0010	Au-ICP21	VO20069229
			110.00	111.00		V472535	**2.5500**	Au-ICP21	VO20069229
			111.00	112.00		V472537	0.0060	Au-ICP21	VO20069229
			112.00	113.00		V472538	0.0070	Au-ICP21	VO20069229
			113.00	114.00		V472539	0.0120	Au-ICP21	VO20069229
			114.00	114.50		V472540	0.0080	Au-ICP21	VO20069229
107.20	114.60	HM; FK; CB; AM							

Hématisation; Altération en feldspath potassique; carbonatization; Amph

Alternating fenitization with Fe-Carb, Amphibole replacing, hematite/carbonate/k-feldspar overall.

107.20 114.50 PY01

Pyrite 1%

MIneralization up to 1% pyrite overall.

114.50 114.60 PY07

Pyrite 7%

Contact mineralization up to 7% medium-grain to fine-grain pyrite stringers

107.20 114.60 FA 45

Fracturé(e) 45°

~10% calcite filled fractures at 45-50 degree to-core-axis .

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
114.60	**115.15**	V3B I2D; AP **Basalte avec 25 à 50% de syénite 50°; Aphanitique** Syenite. (Basalt<50% syenite?). Altered, aphanitic to porphyritic textured, fractured, foliated at 50 degree to core axis, K-feldspar/carbonate/hematite/silicification Mineralized at up to 5% fine grain Pyrite fracture filling	114.50	115.00		V472541	**0.3900**	Au-ICP21	VO20069229

114.60 115.50 FK; CB; HM; SI

Altération en feldspath potassique; carbonatization; Hématisation; Silicifi

k-feldspar/carbonate/hematitesil.

114.60 115.15 PY05

Pyrite 5%

Mineralized at up to 5% fine-grain pyrite fracture filling

114.60 115.15 FA 50

Fracturé(e) 50°

fractured, foliated at 50 degree to-core-axis.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

115.15 132.58 V3B AP

Basalte 60°; Aphanitique

Hypermagnesian basalt with <10% <10cm carbonate fragments (?), subunits, (REE elevated), spotty magnetite. Sheared unit at 30-35 degree to core axis, decreasing fentization, biotite/K-feldspar/hematite/carbonate, ~25% carbonate filled fractures, erratic.

122.3m one 3cm shear plane at 30 degree to core axis.

122.7m-122.9m. Syenite, coarse grain. Mineralized up to 10% fine to very fine grain Pyrite.

126.9m-126.7m syenite, medium granulation. Mineralized up to 5% very fine to fine grain Pyrite disseminated
127.96m-128.1m syenite injection, 2-3% Pyrite.

128.7m-128.8m syenite sheared at 30 degree to core axis, K-feldspar/hematite/carbonate/silicification. Mineralized up to 6% fine grian Pyrite, followed by flow breccia.

129m-129.5m. Flow breccia, carbonate/biotite/chlorite cement, trace Pyrite.

Lower contact is distinguished at 60 degree to core axis.

122.70 122.90 I2D; PO

Syénite; Porphyrique

122.7m-122.9m syenite, coarse, Mineralized up to 10% fine-grain to fine-grain pyrite.

126.70 128.10 I2D; PO

Syénite; Porphyrique

126.9m-126.7m syenite, medium, Mineralized up to 5% fine-grain to fine-grain pyrite disseminated, 127.96m-128.1m syenite injection, 2-3% pyrite.

128.70 128.80 I2D; PO

Syénite; Porphyrique

128.7m-128.8m syenite sheared at 30 degree to-core-axis, K-feldspar/ hematite/carbonate/silica. Mineralized up to 6% fine-grain pyrite, followed by flow breccia.

129.00 129.50 V3B; BQ

Basalte; Brèche de coulée

129m-129.5m, Flow breccia, carbonate/bio/chl cement. Trace pyrite.

115.50 132.58 BO; FK; HM; CB

Biotitisation; Altération en feldspath potassique; Hématisation; carbonati

Decreasing fentization. Bio/k-feldspar/hematite/carb

115.00	115.50	V472542	**0.3300**	Au-ICP21	VO20069229
115.50	116.00	V472543	0.0110	Au-ICP21	VO20069229
116.00	117.00	V472544	0.0620	Au-ICP21	VO20069229
117.00	118.00	V472545	0.0070	Au-ICP21	VO20069229
118.00	119.00	V472546	0.0040	Au-ICP21	VO20069229
119.00	120.00	V472547	0.0210	Au-ICP21	VO20069229
120.00	121.00	V472548	**0.1260**	Au-ICP21	VO20069229
121.00	122.00	V472549	0.0170	Au-ICP21	VO20069229
122.00	123.00	V472550	**0.3340**	Au-ICP21	VO20069229
123.00	124.00	V472551	**0.4410**	Au-ICP21	VO20069229
124.00	125.00	V472553	**1.2550**	Au-ICP21	VO20069229
125.00	126.00	V472554	0.0330	Au-ICP21	VO20069229
126.00	127.00	V472555	0.0280	Au-ICP21	VO20069229
127.00	128.00	V472556	0.0090	Au-ICP21	VO20069229
128.00	129.00	V472557	0.0100	Au-ICP21	VO20069229
129.00	130.00	V472558	0.0340	Au-ICP21	VO20069229
130.00	131.00	V472559	0.0080	Au-ICP21	VO20069229
131.00	132.00	V472560	0.0060	Au-ICP21	VO20069229
132.00	133.00	V472561	0.0100	Au-ICP21	VO20069229

115.15	122.70	PY00.5 **Pyrite 0.5%** trace	
122.70	126.70	PY10 **Pyrite 10%** mineralized up to 10% fine-grain to very-fine-grain pyrite	
126.70	126.90	PY05 **Pyrite 5%** mineralized up to 5% very-fine-grain to fine-grain pyrite disseminated	
126.90	127.96	PY00.5 **Pyrite 0.5%** trace pyrite	
127.96	128.10	PY03 **Pyrite 3%** syenite injection, 2-3% pyrite,	
128.10	128.70	PY00.5 **Pyrite 0.5%** Trace pyrite	
128.70	128.80	PY06 **Pyrite 6%** mineralized up to 6% fine-grain pyrite	
128.80	133.00	PY00.5 **Pyrite 0.5%** trace pyrite	
115.50	132.58	FA 35 **Fracturé(e) 35°** ~25% carb filled fractures, erratic. 122.3m one 3cm shear plane at 30 degree to-core-axis.	

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
132.58	**133.70**	I2D; PO **Syénite; Porphyrique** Syenite. Pink color, coarse granulation, porphyritic weakly fractured,silicification/K-feldspar-feldspar/carbonate/minor hematite. 133m-133.15m one quartz/tourmaline? Vein at 65 degree to core axis followed by one 3cm quartz/tourmaline end of interval, barre.	133.00	134.00		V472562	0.0140	Au-ICP21	VO20069229

Mineralized overall up to 1-2% Pyrite.Lower contact of sheared at 55 degree to core axis with 3-4%. Pyrite fine to medium grain. Pyrite stringers.

132.58 133.70 CB; HM; SI; FK
carbonatization; Hématisation; Silicification; Altération en feldspath pota
sil'd/k-feldspar/carbonate/minor hem.

133.00 133.60 PY02
Pyrite 2%
Mineralized overall up to 1-2% pyrite.

133.60 133.70 PY04
Pyrite 4%
Contact mineralization

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
133.70	**134.85**	V3B (I2D); AP **Basalte avec 5 à 25% de syénite; Aphanitique** Basalt. Green to reddish, aphanitic, with light orange felsic fragments. Patchy dark green - hypermagnesian basalt, groundmass carbonate/hematite basalt with lower unit (Flow top?) deformation ~50 degree to core axis, felsic Fragments, angular to somewhat elongated to subrounded. <5% syenite digestion to melange basalt.Strong K-feldspar/hematite/carbonate. Mineralized up to 2% fine grain Pyrite.Lower contact erratic.	134.00	135.00		V472563	0.0050	Au-ICP21	VO20069229

133.70 134.85 FK; CB; HM; BO
Altération en feldspath potassique; carbonatization; Hématisation; Biotiti
Strong k-feldspar/hematiteCarb, patchy biotite medium-grain V3B.

133.70 134.85 PY02
Pyrite 2%
mineralized up to 2% fine-grain pyrite.

133.70 134.85 CS 50
Cisaillé(e) 50°
Deformation zone?

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
134.85	**137.20**	V3B V3F; I4Q; AP **Basalte; Basalte hyper-magneticnésien; carbonate; Aphanitique 65°** Hypermagnesian basalt. Aphanitic, dark green color, magnetic, possible carbonate fragments alternating. (135.8m-136m). Foliated at 55 degree to core axis, increasing fenitization, carbonate/hematite/biotite/chlorite. 2-3% carbonate filled fracturing erratic to En-echellon(135.8m-137,) at trace to 1% fine grain Pyrite. Lower contact is distingueshed at 65 degree to core axis.	135.00	136.00		V472564	0.0050	Au-ICP21	VO20069229
			136.00	137.00		V472565	0.0040	Au-ICP21	VO20069229
135.80	136.00	I4Q **Carbonatite** Possible carbonatite fragments basalt alternating.							
134.85	137.20	CB; FK; HM; BO; CL **carbonatization; Altération en feldspath potassique; Hématisation; Biotiti** Increasing fenitization, carbonate/hematiteBio/chlorite.							
134.85	137.20	PY01 **Pyrite 1%** trace to 1% fine-grain pyrite.							
135.80	137.00	FA 55 **Fracturé(e) 55°** 2-3% calcite filled fracturing erratic to en-echellon.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
137.20	**138.80**	V3B BQ **Basalte; Brèche de coulée** Basalt. Green color, aphanitic, with <30% flow breccia towards lower contact (mafic tuff?), K-feldspar altered felsic fragments to erratic carbonate altered feldspar.Strong epidote pervasive to patchy, with moderate fracturing, 1-2% felsic filled cracks or fracturing.Overall Epidote/carbonate/hematite cement, to fenitized patches(K-feldspar) Trace to 1% fine grain pyrite.	137.00	138.00		V472566	0.0040	Au-ICP21	VO20069229
			138.00	139.00		V472567	0.0070	Au-ICP21	VO20069229
137.20	138.80	EP; CB; HM; FK **Épidotisation; carbonatization; Hématisation; Altération en feldspath pot** Overall Ep/carbonate/hematite cement, to fenitized patches (k-feldspar).							
137.20	138.80	PY01 **Pyrite 1%**							

Trace to 1% fine-grain pyrite.

From	To	Description
138.80	**147.15**	V3F; AP; I4Q **Basalte hyper-magneticnésien 45°; Aphanitique; carbonate** Hypermagnesian basalt.Aphanitic, dark green color, < 5% carbonatite < 2-3cm subunits high REE). ~10% carbonate filling fractures ~15-20 degree to core axis, sheared, one flat shear/carbonate extensional veining (syenite?) at 138.8m-139.2m (K-feldspar/carbonate/hematite). One 3cm coarse syenite injection at 140.73m-140.78m. One flat lying shear/carbonate extensional veining at 145m-145.4m. Trace Pyrite. 143.8m-144.3m basalt fenitization, k-feldspar/hematite/carbonate. Mineralization is trace to 0.5% Pyrite.Lower contact is 45 defined.
140.73	140.78	I2D; PO **Syénite; Porphyrique** One 3cm coarse syenite injection at 140.73m-140.78m.
143.80	144.30	V3B; AP **Basalte; Aphanitique** 143.8m-144.3m basalt fenitization, K-feldspar/ hematite/carbonate.
138.80	143.80	BO; CL; CC **Biotitisation; Chloritisation; Calcitisation** Bio/chlorite/cal.
143.80	144.30	CB; FK; HM **carbonatization; Altération en feldspath potassique; Hématisation** 143.8m-144.3mV3B fenitization, k-feldspar/hematite/carb.
144.30	147.15	BO; CL; CC **Biotitisation; Chloritisation; Calcitisation** Biotitization/chlorite.
138.80	144.30	PY00.5 **Pyrite 0.5%** Mineralization is trace to 0.5% pyrite.
144.30	147.15	PY00.5 **Pyrite 0.5%** Mineralization is trace to 0.5% pyrite.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
139.00	140.00		V472568	0.0005	Au-ICP21	VO20069229
140.00	141.00		V472570	0.0320	Au-ICP21	VO20069229
141.00	142.00		V472571	0.0320	Au-ICP21	VO20069229
142.00	143.00		V472572	0.0060	Au-ICP21	VO20069229
143.00	144.00		V472573	0.0080	Au-ICP21	VO20069229
144.00	145.00		V472574	0.0050	Au-ICP21	VO20069229
145.00	146.00		V472575	0.0040	Au-ICP21	VO20069229
146.00	147.00		V472576	0.0070	Au-ICP21	VO20069229

138.80	147.15	FA	20
		Fracturé(e) 20°	
		calcite filling fractures ~15-20 degree to-core-axis, sheared.	

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
147.15	**149.20**	I2D; PO	147.00	148.00		V472577	0.0040	Au-ICP21	VO20069229
		Syénite 35°; Porphyrique	148.00	149.00		V472578	0.0020	Au-ICP21	VO20069229
		Syenite.Pink color, medium granulation, faint porphyritic, sharp contacts,~35 degree to core axis. Carbonate/K-feldspar alteration/silicification, patchy hematite.Moderate carbonate filled fracturing at 30-35 degree to core axis. <10% fenitized altered mafic content (147.44m-148.1m) and Epidote altered mafic content (148.5m-148.6m).							
		Mineralized at at 1% fine grain Pyrite disseminatedeminate to rare fracture filling.							
		Lower contact is vein defined at 30 degree to core axis.							
147.44	148.10	V3B; AP							
		Basalte; Aphanitique							
		<10% fenitized altered mafic content (147.44m-148.1m).							
148.50	148.60	V3B; AP							
		Basalte; Aphanitique							
		and epidote altered mafic content (148.5m-148.6m).							
148.15	149.20	CB; SI; HM; FK							
		carbonatization; Silicification; Hématisation; Altération en feldspath pota							
		Carbonate/k-feldspar/sil'd, patchy hematite.							
147.15	148.15	PY01							
		Pyrite 1%							
		Mineralization is trace to1% pyrite.							
148.15	149.20	PY01							
		Pyrite 1%							
		MIneralized at at 1% fine-grain pyrite disseminated to rare fracture filling.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description
149.20	**150.80**	V3B AP **Basalte 45°; Aphanitique** Basalt. Magnetic, green color, aphanitic, fractured, moderate to strong fenitized unit and Fe-carbonate,moderate to strong fracturing chlorite/carbonate/sulphide filled at low angel (30-40 degree to core axis).Strong fenites/carbonate/hematite/potassic alteration packages. Mineralized at 2-3% fine grain Pyrite disseminated to fracture filling. Lower contact is 45 degree to core axis
149.20	150.80	FK; CB; HM; BO **Altération en feldspath potassique; carbonatization; Hématisation; Biotiti** Strong fenites/carbonate/hematite/K.
149.20	150.25	PY03 **Pyrite 3%** Mineralized at 2-3% fine-grain pyrite disseminated to fracture filling.
149.20	150.80	FA 35 **Fracturé(e) 35°** Moderate to strong fracturing chlorite/carbonate/sulphide filled .at low angle trace (30-40 degree to-core-axis).

From	To	Len	SampleID	Au (ppm)	Method	Certificate
149.00	150.00		V472579	0.0260	Au-ICP21	VO20069229
150.00	151.00		V472580	0.0200	Au-ICP21	VO20069229

From	To	Description
150.80	**153.90**	I2D; PO **Syénite; Porphyrique** Syenite. Pink to reddish, ~85% syenite, with <10m fenitized basalt subunits,(151.7m-152.4m), medium granulation, porphyritic texture, equigranular.Moderate silicification/carbonate filling fracturing at 35-40 degree to core axis. Overall K-feldspar/hematite/carbonate/silicification. Mineralized at 3-4% fine to very fine grained Pyrite.
151.70	152.40	V3B; AP **Basalte; Aphanitique** Basalt <10m fenitized basalt subunits,(151.7m-152.4m).
150.80	153.90	SI; CB; HM; FK; FK **Silicification; carbonatization; Hématisation; Altération en feldspath pota**

From	To	Len	SampleID	Au (ppm)	Method	Certificate
151.00	152.00		V472581	0.0020	Au-ICP21	VO20069229
152.00	153.00		V472582	0.0050	Au-ICP21	VO20069229
153.00	154.00		V472583	0.0010	Au-ICP21	VO20069229

Overall k-feldspar/hematitecarbonate/sil.

150.25 153.90 PY04

Pyrite 4%

Mineraluzed at 3-4% fine-grain to very-fine-grain pyrite.

150.80 153.90 FA 35

Fracturé(e) 35°

Moderate silicification/carbonate filling fracturing at 35-40 degree to-core-axis.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
153.90	**155.70**	V2J; PO	154.00	155.00		V472585	0.0005	Au-ICP21	VO20069229
		Andésite; Porphyrique	155.00	156.00		V472586	0.0005	Au-ICP21	VO20069229
		Porphyritic (gabbroic basalt?)syenite(/coarse nepheline), plagioclase/feldspar cm size phenos ratio, euhedral, equigranular, porphyritic texture, finer grain matrix.Fair amount of Epidote.Epidote/carbonate cement, sericite/carbonate/silicification with minor k-feldspar overall.							
		Mineralized trace Pyrite.							

153.90 155.70 EP; CB; SR; SI

Épidotisation; carbonatization; Séricitisation; Silicification

Ep/carb cement, ser/carbonate/sil with minor k-feldspar overall.

153.90 155.70 PY00.5

Pyrite 0.5%

MIneralized trace pyrite.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
155.70	**158.90**	V3B	156.00	157.00		V472587	0.0090	Au-ICP21	VO20069229
		Basalte 25°	157.00	158.00		V472588	0.0005	Au-ICP21	VO20069229
		Basalt.	158.00	159.00		V472589	0.0010	Au-ICP21	VO20069229
		Green color, gabbroic texture, strong semipervasive epidote/cabonate/hematite/chlorite alteration package. Propylitic alteration, patchy amphibole replacement, with strong locally Leucoxene, throughout.							
		Moderate fracturing at 40 degree to core axis, carbonate filled to mm size.							
		Mineralized trace Pyrite.Lower contact is defined at 20-25 degree to core							

axis.

155.70	158.90	EP; CB; HM; LX; AM	
		Épidotisation; carbonatization; Hématisation; Leucoxene; Amphibolitisati	
		Ep/cabonate/hematite/chlorite'c. patchy amphibole replacment, with strong locally leucoxene, throughout.	
155.70	158.90	PY00.5	
		Pyrite 0.5%	
		MIneralized trace pyrite.	
155.70	158.90	FA	40
		Fracturé(e) 40°	
		Moderate fracturing at 40 degree to-core-axis, calcite filled to mm size.	

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
158.90	**161.80**	V2J; PO	159.00	160.00		V472590	0.0050	Au-ICP21	VO20069229
		Andésite; Porphyrique 70°	160.00	161.00		V472591	0.0005	Au-ICP21	VO20069229
		Porphyritic (gabbroic basalt?), Syenite, (nepheline??) pink color, coarse granulation, porphyritic texture, changing to Epidote light greenish , propylitic? biotite/Pyroxene? in matrix, alteration (chlorite/albite alteration).160.8m-161m one basalt, fenitized unit with 30% carbonate veining. Overall epidote/hematite/carbonate/chlorite alteration package with K-feldspar moderate values.Mineralization trace Pyrite,Lower contact at 70 degree to core axis.Mineralized up to 3% fine to very fine grain Pyrite fracture filling locally.	161.00	162.00		V472592	0.0020	Au-ICP21	VO20069229
160.80	161.00	V3B; AP							
		Basalte; Aphanitique							
		160.8m-161m one basalt fenitized unit with 30% carbonate veining.							
158.90	161.80	EP; HM; CB; CL; FK							
		Épidotisation; Hématisation; carbonatization; Chloritisation; Altération en							
		Overall ep/hematitecarbonate/chlorite'c K-moderate values.							
158.90	160.80	PY00.5							
		Pyrite 0.5%							
		Mineralization trace pyrite							
160.80	161.00	PY03							
		Pyrite 3%							
		mineralized up to 3% fine-grain to very-fine-grain pyrite fact filling locally.							

161.00 161.80 PY00.5

Pyrite 0.5%

Mineralization trace pyrite

158.90 161.10 FA

Fracturé(e)

fractured.

From	To	Description
161.80	**170.00**	V3B AP **Basalte; Aphanitique** Basalt. Green color, apanitic to gabbroic sections, ~5% carbonate filling fractus. 161.75m-163.8m Basalt, strong carbonate alteration (carbonate?) fracture erratic to high angle to core axis. Moderate shearing at 167.4m-167.5m with carbonate filled cm size en-echellon shape. 162.4m-162.5m 20% syenite injections at 25 degree to core axis followed by coarse feldspar/plagioclase laths carbonate altered syenite(nefeline?) at 45 degree to core axis. 164m-165.7m gabbroic basalt, trace Pyrite.165.7m-165.95m syenite, ~2% Pyrite,at 50 degree to core axis, (carbonate defined?). 165.9m-170m fenitized fractured carbonate/hematite/K-feldspar basalt. Mineralized at trace to 1% Pyrite.166.54m-166.64m pink medium grain syenite subunit at 60 degree to core axis. 168.5m-168.6m one pink coarse porphyritic syenite at 50 degree to core axis.Mineralized at 1% fine grain Pyrite overall.Lower contact is graditional.
162.40	162.50	I2D; PO **Syénite 25°; Porphyrique** 162.4m-162.5m 20% syenite injections at 25 degree to-core-axis followed by coarse feldspar/plagioclase laths carbonate altered syenite (nepheline?) at 45 degree to-core-axis.
166.54	166.64	I2D; PO **Syénite 60°; Porphyrique** 166.54m-166.64m pink medium syenite subunit at 60 degree to-core-axis.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
162.00	163.00		V472593	0.0100	Au-ICP21	VO20069229
163.00	164.00		V472594	0.0170	Au-ICP21	VO20069229
164.00	165.00		V472595	0.0170	Au-ICP21	VO20069229
165.00	166.00		V472596	0.0120	Au-ICP21	VO20069229
166.00	167.00		V472597	0.0040	Au-ICP21	VO20069229
167.00	168.00		V472598	0.0420	Au-ICP21	VO20069229
168.00	169.00		V472599	0.0210	Au-ICP21	VO20069229
169.00	170.00		V472601	**0.1790**	Au-ICP21	VO20069229

168.50	168.60	I2D; PO **Syénite 50°; Porphyrique** 168.5m-168.6m one pink coarse porphyric syenite at 50 degree to-core-axis.
161.80	165.95	CB **carbonatization** Carb.
165.95	170.00	FK; CB; HM **Altération en feldspath potassique; carbonatization; Hématisation** 165.9m-170m fenitized fractureured carbonate/hematitek V3B, mineralized trace to 1% pyrite.
161.80	165.70	PY00.5 **Pyrite 0.5%** Mineralized at 1% fine-grain pyrite overall.
165.70	165.95	PY02 **Pyrite 2%** ~2% pyrite,at 50 deg tca, (carbonatite defined?)
165.95	170.00	PY01 **Pyrite 1%** pyrite
161.75	163.80	FA **Fracturé(e)** fracture erratic to high angle to-core-axis.
167.40	167.50	CS **Cisaillé(e)** moderate shearing at 167.4m-167.5m with calcite filled cm size en-echellon.

From	To	Description
170.00	**190.50**	V3B I2D V3B AP; PO **Basalte; Syénite avec 25 à 50% de basalte; Aphanitique; Porphyrique** Basalt. Magnetic, green color, aphanitic, fenites, <10cm hypermagnesian basalt subunits. Mineralized ZONE. 170.6m-171.8m fractured with mineralization up to 5% fine grain Pyrite

From	To	Len	SampleID	Au (ppm)	Method	Certificate
170.00	171.00		V472602	**0.1680**	Au-ICP21	VO20069229
171.00	172.00		V472603	**0.1520**	Au-ICP21	VO20069229
172.00	173.00		V472604	0.0040	Au-ICP21	VO20069229
173.00	174.00		V472605	0.0080	Au-ICP21	VO20069229
174.00	175.00		V472606	0.0060	Au-ICP21	VO20069229
175.00	176.00		V472607	0.0140	Au-ICP21	VO20069229
176.00	177.00		V472609	0.0180	Au-ICP21	VO20069229
177.00	178.00		V472610	0.0160	Au-ICP21	VO20069229
178.00	179.00		V472611	0.0140	Au-ICP21	VO20069229

fracture filling. Carbonate/hematite/minor K-feldspar.
173m one 4cm carbonate/quartz Veinn. Trace Pyrite.

171.8m-175.25m strong fenitizations, carbonate/hematite/K-feldspar/and spotty biotite alteration.174.3m-174.4m iron carbonate/quartz veinin g.176.45m-176.70 one dark grey mafic dyke? 177m-177.26m ~30% gabbroic basalt, mm size syenite injections 4-5% Pyrite.

177.26m-178.45m gabbroic basalt, carbonate altered, sheared, lower contact at 80 degree to core axis.

178.85m-179.7m strong fenitized basalt, 179.1m-179.4m 90% carbonate veining at 75-80 degree to core axis with <20% carbonate cm size subunits. Mineralization is 1% Pyrite.179.7m-180.45m pink faint porhyritic syenite. 75% fractured, strong carbonate /silicification with strong K-feldspar/hematite. few patches chloritization(mafic?). Mineralized up to 15% medium to fine grain Pyrite disseminated to fracture fillng/stringers.Carbonate/hematite/biotite overall. Trace pyrite.

180.03m-180.45m syenite, medium grain, porphyritic texture, fractured, k-feldspar/hematite/carbonate/silicification, with 8-9% fine grain Pyrite fracture filling to disseminated.

180.45m-182.08m Basalt. altered, fractures deformed , fenitized. Mineralization is up to 3% Pyrite fracture filling.181.97m-182.08m felsic volcanics contactanic? (syenite?) sharp contact at 55 degree to core axis, one 1cm coarse grain syenite injection pertruding.182.08m-182.67m Basalt. Aphantic, fenitized, trace to 0.5% Pyre

182.67m-183.35m Mineralized ZONE basalt with <50% syenite injections/digestion. K-feldspar/hematite/carbonate/silicification fractured with 10% fine to very fine grain Pyrite stringers to fracture filling183.35m-184.9m Basalt, strong fentization, aphanitic to medium grain felsic volcanics contactanic (V1?) ,fractured. Mineralization is up to 3-4% very fine grain Pyrite disseminated, 184.9m-185.9m altered syenite, pink color,medium to coarse grain, porphyritic texture, carbonate/silicifiedified/hematite alteration package. Mineralization is up to 1-2% Pyrite disseminated. 185.15m-185.26m coarse grain syenite, 1-2% Pyrite, 185.26m-186.8m altered fractured syenite, pink color, faint porphyritic texture, strongly silicified.K-feldspar/carbonate/hematite. Mineralization is up to 4-5% medium to fine grain Pyrite disseminated.K-Feldspar/hematite/carbonate overall with spotty silicification.

176.45 176.70 I3; GF

Intrusif mafique; Grains fins

176.45m-176.70 one dark grey mafic dyke?

179.00	180.00	V472612	**0.3150**	Au-ICP21	VO20069229
180.00	181.00	V472613	**5.3000**	Au-ICP21	VO20069229
181.00	182.00	V472614	**0.2550**	Au-ICP21	VO20069229
182.00	183.00	V472615	0.0080	Au-ICP21	VO20069229
183.00	184.00	V472616	0.0090	Au-ICP21	VO20069229
184.00	185.00	V472617	0.0040	Au-ICP21	VO20069229
185.00	186.00	V472618	0.0070	Au-ICP21	VO20069229
186.00	187.00	V472619	0.0070	Au-ICP21	VO20069229
187.00	188.00	V472620	0.0020	Au-ICP21	VO20069229
188.00	189.00	V472621	0.0020	Au-ICP21	VO20069229
189.00	190.00	V472622	0.0040	Au-ICP21	VO20069229
190.00	191.00	V472623	0.0005	Au-ICP21	VO20069229

177.00 177.26 V3B (I2D); PO

Basalte avec 5 à 25% de syénite; Porphyrique

177m-177.26m ~30% gabbroic basalt, mm size syenite injections 4-5% pyrite.

179.70 180.45 I2D; PO

Syénite; Porphyrique

Syenite.Pink faint porphyritic syenite, 75% fractured, strong carbonate /silicification with strong K-feldspar/hematite. Few patches chloritization(mafic?). Mineralized up to 15% medium-grain to fine-grain pyrite disseminatedto fracture fillng/stringers.

180.45 180.60 V3B; CS

Basalte; Cisaillé

180.45m-182.08m basalt altered, fractures deformed , fenitized with Mineralized up to 3% pyrite fracture filling.

180.60 182.08 I2D; PO

Syénite; Porphyrique

181.97m-182.08m V1? (syenite?) sharp contact at 55 degree to-core-axis, one 1cm coarse syenite injection pertruding.

185.15 186.80 I2D; PO

Syénite; Porphyrique

185.15m-185.26m coarse syenite, 1-2% pyrite. 185.26m-186.8m alteredfractured syenite, pink, faint porphyritic, strongly silicified. K/carbonate/hematite. Mineralized up to 4-5% medium-grain to fine-grain pyrite disseminated.

190.15 190.20 I2D; PO

Syénite; Porphyrique

190.15m one 2cm pink, syenite.

170.00 171.80 CB; HM

carbonatization; Hématisation

Carbonate/hematite/minor K.

171.80 172.25 FK; CB; HM; BO

Altération en feldspath potassique; carbonatization; Hématisation; Biotiti

171.8m-175.25m strong fenitizations, carbonate/hematitek-feldspar/and spotty bio.

172.25 178.85 CB; HM

carbonatization; Hématisation

Carbonate/hematiteminor K.

178.85 179.70 FK; CB; HM

Altération en feldspath potassique; carbonatization; Hématisation

Strong fenitized basalt.

179.70 180.03 CB; SI; FK

carbonatization; Silicification; Altération en feldspath potassique

Strong carbonate /silicification with strongk-feldspar/hematite. few patches chloritization(mafic?).

180.03 180.45 FK; CB; HM; SI

Altération en feldspath potassique; carbonatization; Hématisation; Silicifi

180.03m-180.45m SYE, medium, porph, fractureured, k-feldspar/he/carbonate/sil, with 8-9% fine-grain pyrite fracture filling to disseminated.

180.45 182.08 FK; CB; HM

Altération en feldspath potassique; carbonatization; Hématisation

180.45m-182.08m V3B altered, fractureures deformed , fenitized with Mineralized up to 3% pyrite fracture filling.

182.08 182.67 FK; CB; HM

Altération en feldspath potassique; carbonatization; Hématisation

182.08m-182.67m V3B aphantic fenitized. Trace to 0.5% pyrite.

182.67 183.35 FK; CB; HM; SI

Altération en feldspath potassique; carbonatization; Hématisation; Silicifi

V3B with <50% SYE inject/deigestionk-feldspar/hematite/carbonate/sil.

183.35 184.90 FK; CB; HM

Altération en feldspath potassique; carbonatization; Hématisation

183.35m-184.9m V3B strong fentization, aphanitic to med'grain(V1?) ,fractureured mineralized up to 3-4% vfine-grain pyrite disseminated.

184.90 185.90 FK; CB; SI; HM

Altération en feldspath potassique; carbonatization; Silicification; Hémati

184.9m-185.9m altered Sye, pink,med'm to coarse, porphyr'c, carbonate/sil'd/hematite. mineralized up to 1-2% pyrite disseminated.

185.90 186.80 SI; FK; CB; HM

Silicification; Altération en feldspath potassique; carbonatization; Hémati

185.15m-185.26m coarse SYE, 1-2% pyrite, 185.26m-186.8m altered fractureured SYE, pink, faint porphyr'c, strongly silicified.k-feldspar/carbonate/hematite. Mineralized up to 4-5% medium-grain to fine-grain pyrite disseminated .

186.80 190.50 CB; FK; HM

carbonatization; Altération en feldspath potassique; Hématisation

K-feldspar/hematiteCarb overall with spotty silicification.

170.00 170.60 PY00.5

Pyrite 0.5%

trace to 0.5% pyrite

170.60 171.80 PY05

Pyrite 5%

fracture d with mineralized up to 5% fine-grain pyrite fracture filling.

171.80 177.00 PY00.5

Pyrite 0.5%

Trace pyrite

177.00 177.26 PY05

Pyrite 5%

177m-177.26m ~30% gabbroic basalt, mm size syenite injections 4-5% pyrite,

177.26 180.30 PY01

Pyrite 1%

Up to 1% fine-grain pyrite disseminated.

180.30 180.45 PY09

Pyrite 9%

180.03m-180.45m syenite, medium, porph, fractured, k-feldspar/he/carbonate/sil, with 8-9% fine-grain pyrite fracture filling to disseminated .

180.45 180.60 PY03

Pyrite 3%

180.45m-182.08m V3B altered, fractures deformed , fenitized with MN up to 3% pyrite fracture filling.

180.60 182.08 PY03

Pyrite 3%

180.45m-182.08m V3B altered, fractures deformed , fenitized with MN up to 3% pyrite fracture filling.

182.08 182.67 PY00.5

Pyrite 0.5%

182.08m-182.67m V3B aphantic fenitized, trace to 0.5% pyrite

182.67 183.35 PY10

Pyrite 10%

182.67m-183.35m MINERALIZED ZONE V3B with <50% syenite inject/deigestionk-feldspar/hematite/carbonate/sil fractured with 10% fine-grain to very-fine-grain pyrite stringers to fracture filling

183.35 184.90 PY04

Pyrite 4%

183.35m-184.9m V3B strong fentization, aphanitic to med'grain(V1?) ,fractured mineralized up to 3-4% very-fine-grain pyrite disseminated,

184.90	185.90	PY02 **Pyrite 2%** altered syenite, pink, medium to coarse, porphyritic, carbonate/silicified/hem. mineralized up to 1-2% pyrite disseminated.
185.90	186.80	PY05 **Pyrite 5%** 185.26m-186.8m altered fracture d syenite, pink, faint porphyritic, strongly silicified.k-feldspar/carbonate/Hem. mineralized up to 4-5% medium-grain to fine-grain pyrite disseminated.
186.80	190.15	PY00.5 **Pyrite 0.5%** Trace to 0.5% pyrite
190.15	190.60	PY00.5 **Pyrite 0.5%** MIneralized trace to 0.5% pyrite
170.60	171.80	FA **Fracturé(e)** 170.6m-171.8m fractured.
180.03	180.45	FA **Fracturé(e)** 180.03m-180.45m syenite, medium, porph, fractured, k-feldspar/hematite/carbonate/silicification, with 8-9% fine-grain pyrite fract filling to disseminated.
180.45	182.08	FA **Fracturé(e)** 180.45m-182.08m basalt altered, fractures deformed, fenitized with mineralization up to 3% pyrite fract filling.
182.67	183.35	FA **Fracturé(e)** 182.67m-183.35m MINERALIZED ZONE basalt with <50% syenite inject/digestion k/hematite/carbonate/silicification fractured with 10% fine-grain to vfine-grain pyrite stringers to fracture filling.
185.35	186.80	FA **Fracturé(e)** 185.26m-186.8m altered fractured syenite, pink, faint porphyr'c, strongly silicified, K/carbonate/hematite, mineralized up to 4-5% medium-grain to fine-grain pyrite disseminated.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

190.50 **190.60** V3B (I2D); AP

Basalte avec 5 à 25% de syénite 25°; Aphanitique

Basalt,, green color, aphanitic, weakly fractured, semipervasive Epidotization, Fe-carbonate patches.carbonate/Epidote/chlorite propylitic alteration overall.190.15m one 2cm pink color , syenite, Mineralized trace to 0.5% PyriteLower contact is 20-25degree to core axis, defined.

190.50 190.60 CB; EP; CL

carbonatization; Épidotisation; Chloritisation

Ep, Fe-carb.Car/Ep/chlorite overall.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

190.60 **190.70** I2D; PO

Syénite 15°; Porphyrique

Syenite, (nepheline? cm size feldspar), (Porphyritic andesite?,)euhedral, equigranular, coarse grain. Porphyritic pinkish to reddish, biotite grainulation in matrix, dark silicification patches, fine epidote altered plagioclase.Non deformed. Trace Pyrite.Lower contact is flat to 10 degree to core axis.

190.60 190.70 BO; EP; CB; SI

Biotitisation; Épidotisation; carbonatization; Silicification

Biotite grainulation in matrix, dark silicicification patches, fine Ep altered plg.

190.60 190.70 PY00.5

Pyrite 0.5%

Trace pyrite.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description
190.70	**196.40**	V3B AP **Basalte 70°; Aphanitique** Basalt. Spotty magnetic, aphanitic, with <5% syenite injections. Semipervasive Epidotization. Fenitization with moderate silicification.Overall hematite/carbonate/K-feldspar, weakly fractured.193-193.6 40% carbonate/quartz veining, trace Pyrite, 194m-194.3m ~50% carbonate/quartz veining , trace Pyrite.Mineralized up to 1% fine grain Pyrite disseminated.Lower contact is 70 degree to core axis.
190.70	196.40	EP; CB; HM **Épidotisation; carbonatization; Hématisation** Semipervasive Ep. Fenitization with moderate silicification Overall hematite/carbonate/k.
190.70	196.40	PY01 **Pyrite 1%** Mineralized up to 1% fine-grain pyrite disseminated

From	To	Len	SampleID	Au (ppm)	Method	Certificate
191.00	192.00		V472624	0.0020	Au-ICP21	VO20069229
192.00	193.00		V472626	0.0130	Au-ICP21	VO20069229
193.00	194.00		V472627	0.0040	Au-ICP21	VO20069229
194.00	195.00		V472628	0.0050	Au-ICP21	VO20069229
195.00	196.00		V472629	0.0050	Au-ICP21	VO20069229

From	To	Description
196.40	**198.00**	V3B AP **Basalte 70°; Aphanitique** Basalt. Green color, aphanitic, with <25% syenite cm size carbonate/hematite/K-feldspar altered fragments. Carbonate with strong fenitization. Strong Epidotization semipervasive increasing.Moderate fracturing, one cm size carbonate at 197.1m.Carbonate/silicification filled at high angle to core axis. Strong semipervasive hematite patches.Mineralized up to 1% fine grain pyrite.Lower contact at 70degree to core axis.
197.10	197.20	I4Q; MA **Carbonatite; Roche massive** one cm size carbonatite at 197.1m.
196.40	198.00	CB; EP; HM; FK **carbonatization; Épidotisation; Hématisation; Altération en feldspath pot** Carbonate/hematitek altered fragments. Carbonatizied with strong fenitization. Strong Ep semipervasive increasing.
196.40	198.00	PY01 **Pyrite 1%**

From	To	Len	SampleID	Au (ppm)	Method	Certificate
196.00	197.00		V472630	0.0050	Au-ICP21	VO20069229
197.00	198.00		V472631	0.0040	Au-ICP21	VO20069229

Pyrite 1%

Mineralized up to 1% fine-grain pyrite

From	To	Description
198.00	**213.36**	V3B (I2D); AP **Basalte avec 5 à 25% de syénite 30°; Aphanitique** Basalt. Green color, aphanitic, strong to very strong fenitization alternating, silicified/carbonate filled fractured, faint foliation at ~60degree to core axis. 198.1m 199.6m sheared carbonate basalts, strong fenitization 10% carbonate filled en-echeon cm size, 199.4m-199.6m @75degree to core axis. 201.6m-201.9m gabbroic basalt, <5% syenite, carbonate replacement/chlorite.One shear at 101.7m at 30 degree to core axis. 204.5m-204.7m carbonate/quartz/albite veining.205.4m-205.7m ~10% fractured basalt with <40% syenite, with basalt digestions. 205.4m-205.65 carbonatized syenite? with 5% fine grain Pyrite fracture filling . One carbonate vein fragmen(~50%)t at 206.1m-206.2m. 206.22m-206.3 One pink color, coarse grain, porphyritic texture syenite, carbonate/K-feldspar/silicification. Mineralization is 1% fine grain Pyritye stringers. 207.2m-207.55m ~10% fractured carbonate syenite with digested basalt. Mineralization is up to 7-8% fine grain Pyrite fracture filling to very fine grain disseminated.208.12m-208.95m ~20% fractured syenite with digested basalt. Mineralization is 8% Pyrite fracture filling to very fine grain disseminated. 209.46m-209.56m 85% carbonate at 70 degree to cora axis. Trace Pyirite. 211.5m-211.7m one silicified altered syenite at 70 degree to core axis. Mineralization is trace Pyrite.Lower contact is 30 degree to core axis.
198.10	199.60	V3B; CS **Basalte; Cisaillé** 198.1m 199.6m sheared carbonatized basalts, strong fenitization 10% carbonate filled en-echelon cm size, 199.4m-199.6m @75 degree to-core-axis.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
198.00	199.00		V472632	0.0040	Au-ICP21	VO20069229
199.00	200.00		V472633	0.0550	Au-ICP21	VO20069229
200.00	201.00		V472634	0.0130	Au-ICP21	VO20069229
201.00	202.00		V472635	0.0010	Au-ICP21	VO20069229
202.00	203.00		V472636	0.0390	Au-ICP21	VO20069229
203.00	204.00		V472637	0.0030	Au-ICP21	VO20069229
204.00	205.00		V472638	0.0040	Au-ICP21	VO20069229
205.00	206.00		V472639	0.0220	Au-ICP21	VO20069229
206.00	207.00		V472641	0.0140	Au-ICP21	VO20069229
207.00	208.00		V472642	0.0060	Au-ICP21	VO20069233
208.00	209.00		V472643	**0.1380**	Au-ICP21	VO20069233
209.00	210.00		V472644	0.0210	Au-ICP21	VO20069233
210.00	211.00		V472645	0.0520	Au-ICP21	VO20069233
211.00	212.00		V472646	0.0040	Au-ICP21	VO20069233
212.00	213.00		V472647	0.0260	Au-ICP21	VO20069233

201.60 201.90 V3B; AP

Basalte; Aphanitique

201.6m-201.9m gabbroic basalt, <5% syenite, carbonate epidote/chlorite. One shear at 101.7m at 30 degree to-core-axis.

205.40 205.65 I2D; PO

Syénite; Porphyrique

205.4m-205.65 carbonatized syenite? with 5% fine-grain pyrite fracture filling . One carbonate vein fragment (~50%) at 206.1m-206.2m.

206.22 206.30 I2D; PO

Syénite; Porphyrique

206.22m-206.3 one pink coarse porphyric syenite, carbonate/k-feldspar/silicified with Mineralized 1% fine-grain pyrite stringers.

207.20 207.55 I2D; PO

Syénite; Porphyrique

207.2m-207.55m ~10%fractured carbonatized syenite digested basalt with 7-8% fine-grain pyrite fracture filling to fine-grain disseminated.

208.12 208.95 I2D (V3B); CS

Syénite avec 5 à 25% de basalte; Cisaillé

208.12m-208.95m ~20% fractured syenite digested basalt with 8% pyrite fractured filling to fine-grain disseminated.

208.95 209.78 I4Q; MA

Carbonatite; Roche massive

209.46m-209.56m 85% carbonatite at 70 degree to-core-axis. Trace pyrite.

211.50 211.70 I2D; PO

Syénite; Porphyrique

211.5m-211.7m One silicified altered syenite at 70 degree to-core-axis,Mineralized tr pyrite.

201.60 201.90 CB; CL

carbonatization; Chloritisation

201.6m-201.9m gabbroic V3B, <5% sye, carbonate replacement/chlorite.

201.90 206.22 FK; CB; HM

Altération en feldspath potassique; carbonatization; Hématisation

Strong to very strong fenitization.

206.22 206.30 SI; FK; CB; HM

Silicification; Altération en feldspath potassique; carbonatization; Hémati

206.22m-206.3 one pink coarse porph'c syenite, carbonate/k-feldspar/sil'd with mineralized 1% fine-grain pyrite stringers.

206.30 207.20 FK; CB; HM

Altération en feldspath potassique; carbonatization; Hématisation

Strong to very strong fenitization.

207.20 207.55 CB

carbonatization

207.2m-207.55m ~10% fracture'd carbonatized sye digested V3B with 7-8% fine-grain pyrite fracture filling to vfine-grain disseminated'd.

207.55 208.12 FK; CB; HM

Altération en feldspath potassique; carbonatization; Hématisation

Strong to very strong fenitization.

208.12 208.95 CB; HM; FK; SI

carbonatization; Hématisation; Altération en feldspath potassique; Silicifi

208.12m-208.95m ~20% fractureured sye digested V3B with 8% pyrite frat filling to very fine-grain disseminated.

208.95 211.50 FK; CB; HM

Altération en feldspath potassique; carbonatization; Hématisation

Strong to very strong fenitization.

211.50 211.70 SI

Silicification

211.5m-211.7m one silicified altered sye at 70 deg tca,mineralized tr pyrite.

211.70 213.36 FK; CB; HM

Altération en feldspath potassique; carbonatization; Hématisation

Strong to very strong fenitization.

198.00 206.22 PY00.5

Pyrite 0.5%

trace pyrite

206.22 206.30 PY01

Pyrite 1%

206.22m-206.3 one pink coarse porph'c syenite, carbonate/k-feldspar/silicified with mineralized 1% fine-grain pyrite stringers.

206.30 207.20 PY00.5

Pyrite 0.5%

mineralized 0.5% fine-grain pyrite stringers.

207.20 207.55 PY08

Pyrite 8%

207.2m-207.55m ~10% fractÆd carbonatized syenite digested V3B with 7-8% fine-grain pyrite fracture filling to very-fine-grain disseminated

207.55	208.12	PY00.5	
		Pyrite 0.5%	
		trace pyrite	
208.12	208.95	PY08	
		Pyrite 8%	
		208.12m-208.95m ~20% fracture d syenite digested V3B with 8% pyrite frat filling to very-fine-grain disseminated .	
208.95	211.50	PY00.5	
		Pyrite 0.5%	
		trace pyrite	
211.50	211.70	PY00.5	
		Pyrite 0.5%	
		211.5m-211.7m one silicified altered syenite at 70 deg tca, mineralized tr pyrite	
211.70	213.36	PY00.5	
		Pyrite 0.5%	
		Trace pyrite	
198.10	199.40	CS	
		Cisaillé(e)	
		198.1m 199.6m sheared carbonatized basalts.	
199.40	199.60	FA	
		Fracturé(e)	
		10% carb filled en-echeon cm size, 199.4m-199.6m @75 degree to-core-axis.	
201.70	201.80	CS	30
		Cisaillé(e) 30°	
		One shear at 201.7m at 30 degree to-core-axis.	
205.40	205.70	FA	
		Fracturé(e)	
		205.4m-205.7m ~10% fractured basalt-I2D with syenite.	
207.20	207.55	FA	
		Fracturé(e)	
		207.2m-207.55m ~10% fract'd carbonatized syenite digested basalt with 7-8% fine-grain pyrite fract filling to vfine-grain disseminated.	
208.12	208.95	FA	
		Fracturé(e)	
		208.12m-208.95m ~20% fractured syenite digested basalt with 8% pyrite frat filling to vfine-grain disseminated.	

From	To	Description
213.36	**216.30**	I2D V3B AP **Syénite avec 25 à 50% de basalte 60°; Aphanitique** syenite with <40% basalt.Mineralized ZONE, green to grey to dark reddish color, aphanitic medium grain, to faint porphyritic taxture.fractured at 5-10% silicified/carbonate filled fractures erratic, strong carbonatisation. Strong fenitization alternating,213.3m-213.6m carbonate altered syenite with <25% carbonate/hematite basalt at 20degree to core axis. Mineralization is trace Pyrite. 213.9m-214.1m coarse grain, pink color, altered, sheared syenitenitye at 15-20degree to core axis. Mineralization is at 3-4% fine to very fine grain Pyrite to disseminated. 214.4m-214.8m carbonate altered syenite with <25% carbonate/hematite basalt at 20degree to core axis. Mineralization is trace Pyrite. Overall Mineralization is up to 10% medium to fine grain Pyrite disseminated. Lower contact is at 60 degree to core axis.
213.30	213.60	I2D (V3B); PO **Syénite avec 5 à 25% de basalte; Porphyrique** 213.3m-213.6m Carbonate altered syenite with <25% carbonate/hematite basalt at 20 degree to-core-axis. Mineralized trace.
213.60	213.90	I2D; PO **Syénite 20°; Porphyrique** 213.9m-214.1m coarse pink altered sheared syenite at 15-20 degree to-core-axis. Mineralized at 3-4% fine-grain to fine-grain pyrite disseminated.
213.36	216.90	CB; FK; HM **carbonatization; Altération en feldspath potassique; Hématisation** Strong carbonatization. Strong fenitization alternating.
213.36	213.90	PY10 **Pyrite 10%** mineralized up to 10% medium-grain to fine-grain pyrite disseminated
213.90	214.10	PY04 **Pyrite 4%** 213.9m-214.1m coarse pink altered sheared syenite at 15-20 deg tca, mineralized at 3-4% fine-grain to very-fine-grain pyrite disseminated.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
213.00	214.00		V472648	**0.2380**	Au-ICP21	VO20069233
214.00	215.00		V472649	0.0320	Au-ICP21	VO20069233
215.00	216.00		V472650	**0.7630**	Au-ICP21	VO20069233

214.10	214.80	PY00.5	
		Pyrite 0.5%	
		214.4m-214.8m carbonate altered syenite with <25% carbonate/hem basalt at 20 deg tca, mineralized trace	
214.80	216.30	PY10	
		Pyrite 10%	
		mineralized up to 10% medium-grain to fine-grain pyrite disseminated	
213.36	213.90	FA	
		Fracturé(e)	
		Fractured at 5-10% sil'd/carbonate filled fractures erratic.	
213.90	214.10	CS	15
		Cisaillé(e) 15°	
		213.9m-214.1m coarse pink altered sheared syenite at 15-20 degree to-core-axis, mineralized at 3-4% fine-grain to vfine-grain pyrite disseminated.	
214.10	216.30	FA	
		Fracturé(e)	
		Fractured at 5-10% sil'd/carbonate filled fractures erratic.	

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
216.30	**217.80**	V3B (I2D); AP	216.00	217.00		V472651	**0.2440**	Au-ICP21	VO20069233
		Basalte avec 5 à 25% de syénite 60°; Aphanitique	217.00	218.00		V472652	0.0180	Au-ICP21	VO20069233
		Basalt. Aphanitic, green to grey color, carbonate/hematite/K-feldspar alteration, strong silicification locally, fenites.216.9m-217.3m altered, sheared at 30 degree to core axis, faint k-feldspar/silicification/hematite/carbonate porphyritic syenite, moderate fractured, strong silicified/carbonate/K-feldspar/hematite. Mineralization is up to 4% fine to very fine grain Pyrite to fracture filling. Lower contact at 60 degree to core axis.							
		216.90 217.30 I2D; CS							
		Syénite 30°; Cisaillé							
		216.9m-217.3m altered, sheared at 30 degree to-core-axis faint K-feldspar/ silicified/hematite /carbonate porphyric syenite, moderate fractured, strong silicification/car/k-feldspar/hematite Mineralized up to 4% fine-grain to fine-grain pyrite to fracture filling.							
		216.90 217.30 SI; CB; FK; HM							
		Silicification; carbonatization; Altération en feldspath potassique; Hémati							

Altered, sheared at 30 deg tca faint porph'c sye, moderate fracture'd, strong silicification/car/k-feldspar/hematite mineralized up to 4% fine-grain to vfine-grain pyrite to fracture filling.

217.30 217.80 FK; CB; HM

Altération en feldspath potassique; carbonatization; Hématisation

Carbonate/hematite/K.

216.30 216.90 PY00.5

Pyrite 0.5%

trace pyrite

216.90 217.30 PY04

Pyrite 4%

216.9m-217.3m mineralized up to 4% fine-grain to very-fine-grain pyrite to fracture filling

217.30 217.80 PY00.5

Pyrite 0.5%

Trace pyrite

216.90 217.30 CS30; FA

Cisaillé(e)30; Fracturé(e)

sheared at 30 degree to-core-axis, moderate fract'dmineralized up to 4% fine-grain to vfine-grain pyrite to fract filling.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
217.80	**219.90**	V3B AP	218.00	219.00		V472653	0.0060	Au-ICP21	VO20069233
		Basalte 30°; Aphanitique	219.00	220.00		V472654	0.0050	Au-ICP21	VO20069233
		Fractured carbonate replacement basalt, erratic, fenitization, aphanitic, strong hematite/carbonate/minor silicification. 218.3m-218.4 one carbonate unit at 80 degree to core axis, trace Pyrite. Lower contact is carbonate vein at 35 degree to core axis defined.							

218.30 218.40 I4Q

Carbonatite 80°

218.3m-218.4 one carbonatite unit at 80 degree to-core-axis. Trace pyrite.

217.80 219.90 CB; FK; HM

carbonatization; Altération en feldspath potassique; Hématisation

Carbonate replacment V3B, erratic, fenitization, aphanitic, strong hematite/car/minor sil'd.

217.80 218.30 PY00.5

Pyrite 0.5%

trace pyrite

218.30 219.90 PY00.5

Pyrite 0.5%

trace

From	To	Description
219.90	**231.50**	V3B (I2D); AP **Basalte avec 5 à 25% de syénite; Aphanitique** Basalt. Patchy magnetite, green color, fine grain to aphanitic, carbonate/hematite/chlorite with patchy K-feldspar/hematite where felsic.Weak to moderate fracturing.221.22m-225.2m (approximate) Basalt with 50% syenite injections, green to greysh color, aphanitic, ~ 40% altered faint porphyritic syenite subunits, with occasionally accicular amphibole/biotite near felsic injections.Carbonate/chlorite overall with patchy carbonate replacement,moderate to strong hematite/K-feldspar patches where felsic. One flat chlorite/carbonate filled hiarline fracture from 224.9m-226.26. Mineralization is up to 5-6% medium to fine grain Pyrite disseminated. 221.22m-222.7. Mineralization is up to 6-8% fine grain disseminated Pyrite. 226.83m-227.9m string magnetite. 228.6m-231.17m increase of carbonate altered feldsp, gabbroic, basalt with semipervasive amphibol/biotite 10-20 band near contact.231.17m-231.5m orange aphanitic digested syenite/basalt, strong k-feldspar/hematite/silicification.Mineralization is trace to 0.5% Pyrite.Strong carbonatisation. Mineralization is up to 6-8% fine grain disseminated Pyrite.Lower contact graditional.226.83m-227.9m magnetic.235.13m-235.5m possible mafic tuff, magnetic, medium grainnt'e overprinting chlorite replaced lapillis.? Feldspar laths subangular. Car/hematite/K-feldsparMineralized ~1% pyrite.226.8m-227.9m ~5% fine grain pyrite disseminated.
219.90	228.60	CB; HM; CL; MG **carbonatization; Hématisation; Chloritisation; Magnétite** Car/hematite chl'c with patchy k-feldspar/hematite where felsic.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
220.00	221.00		V472655	0.0030	Au-ICP21	VO20069233
221.00	222.00		V472657	**0.4610**	Au-ICP21	VO20069233
222.00	223.00		V472658	**0.2260**	Au-ICP21	VO20069233
223.00	224.00		V472659	**0.3660**	Au-ICP21	VO20069233
224.00	225.00		V472660	**0.2370**	Au-ICP21	VO20069233
225.00	226.00		V472661	**0.1220**	Au-ICP21	VO20069233
226.00	227.00		V472662	0.0150	Au-ICP21	VO20069233
227.00	228.00		V472663	0.0220	Au-ICP21	VO20069233
228.00	229.00		V472664	0.0150	Au-ICP21	VO20069233
229.00	230.00		V472665	0.0020	Au-ICP21	VO20069233
230.00	231.00		V472666	0.0020	Au-ICP21	VO20069233
231.00	232.00		V472667	0.0040	Au-ICP21	VO20069233

228.60 231.17 CB; AM; BO

carbonatization; Amphibolitisation; Biotitisation

Increase of carbonate altered feldsp, gabbroic, basalt with semiervasive amphibol/bio 10-20 band near contact.

231.17 231.50 FK; CB; HM

Altération en feldspath potassique; carbonatization; Hématisation

Orange aphanitic digested sye/basalt, strong k-feldspar/hematitesil'd.mineralized trace to 0.5 pyrite.

219.90 221.22 PY00.5

Pyrite 0.5%

medium-grain basalt to gradually changing to fenites, trace pyrite.

221.22 225.20 PY06

Pyrite 6%

221.22m-225.2m mineralized up to 5-6% medium-grain to fine-grain pyrite disseminated.

225.20 226.80 PY01

Pyrite 1%

Trace to 1% pyrite

226.80 227.90 PY05

Pyrite 5%

226.8m-227.9m ~5% fine-grain pyrite disseminated .

From	To	Description
231.50	**239.46**	VC **volcanics contactanoclastique** Intermediate volcanics /volcaniclastics (possible medium grain late syenite pulse) with mm size felsic red lapilli, feldspar altered, porphyritic texture, somewhat distinguished contact.15-20% altered, syenite large fragments, (235.13m-235.9mt K-feldspar/silicification/carbonate where felsic. Mineralization is trace to 0.5% Pyrite with narrow Mineralized bands up to 3% very fine grain disseminated pyrite, locally around felsic. Lower contact graditional.
235.13	235.90	I2D **Syénite** 15-20% altered, syenite large fragments, K-feldspar/ silicification/carbonate where felsic.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
232.00	233.00		V472668	0.0730	Au-ICP21	VO20069233
233.00	234.00		V472669	0.0070	Au-ICP21	VO20069233
234.00	235.00		V472670	0.0060	Au-ICP21	VO20069233
235.00	236.00		V472671	0.0750	Au-ICP21	VO20069233
236.00	237.00		V472672	**0.6500**	Au-ICP21	VO20069233
237.00	238.00		V472674	**0.1210**	Au-ICP21	VO20069233
238.00	239.00		V472675	**1.1600**	Au-ICP21	VO20069233

231.50	235.16	CB; HM
		carbonatization; Hématisation
		Car/hematitechl'c with patchy k-feldspar/hematite.
235.16	235.50	FK; CB; SI
		Altération en feldspath potassique; carbonatization; Silicification
		15-20% altered, syenite large fragments, k-feldspar/silicification/car where felsic.
235.50	239.46	FK; SI; CB
		Altération en feldspath potassique; Silicification; carbonatization
		K-feldspar/silicification/car where felsic.
227.90	235.16	PY01
		Pyrite 1%
		Trace to 1% pyrite
235.16	235.90	PY03
		Pyrite 3%
		up to 3% very-fine-grain disseminated pyrite locally around felsic.
235.90	239.46	PY00.5
		Pyrite 0.5%
		Trace

From	To	Description
239.46	**247.42**	TU
		Tuf non divisé 30°
		Tuff, mafic?
		Rare red angular mm size felsic laipilli, cm to dm size carbonate/hematiteatie/K-feldspar alteration with moderate silicifcation altered syenite, sheared at 35degree to core axis.25-30% fenitized mafic fragments tgroundmass.
		239.46-240.15mPossible mafic tuff, Magnetic, k-feldspar/hematite/carbonate with moderate silica felsic fragments, (syenite)sheared, and fractured, with <40% basalt. K-feldspar/hematite/carbonate with local silicification.Mineralization is up to 5% fine grain Pyrite disseminated.
		240.15m-241.9m. Basalt aphantic, fenites, 20% high potassium felsics, Mineralization is up to 1% fine grain disseminated overall.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
239.00	240.00		V472676	**0.5750**	Au-ICP21	VO20069233
240.00	241.00		V472677	0.0320	Au-ICP21	VO20069233
241.00	242.00		V472678	**0.1090**	Au-ICP21	VO20069233
242.00	243.00		V472679	0.0990	Au-ICP21	VO20069233
243.00	244.00		V472680	**0.2360**	Au-ICP21	VO20069233
244.00	245.00		V472681	**0.4090**	Au-ICP21	VO20069233
245.00	246.00		V472682	**0.1700**	Au-ICP21	VO20069233
246.00	247.00		V472683	**0.5420**	Au-ICP21	VO20069233

241.9m-242.3m Tuff/Flow breccia(polygenic breccia), silicification/sericite/felsic breccia, hematite/K-feldspar/carbonate/silicification overall.

242.9m-243m , 243.3m-243.4m basalt, carbonate replacement.(carbonate/Sericite altered ash?) Mineralization is up to 1% Pyrite rare disseminated(stringers?).

245.3m-246.7m syenite, pink color, medium grain, porphyritic texture, to gradually changing to aphanitc, k-feldspar/carbonate/hematite/silicification, fractured.Mineralization is up to 4% fine grain Pyrite fracture filling to disseminated.

246.7m-246.77 one quartz vein at 30degree toi core axis, moderate fractureed concordant, host is basalt with 40% syenite strongly carbonate with K-feldspar/carbonate alteration envelope, Mineralization is up to 10% medium to fine grain Pyrite fracture filling to disseminated. Marks up the lower contact.

239.46 241.90 V3B

Basalte

Basalt aphanitic, fenites, 20% high potassium felsics, Mineralized up to 1% fine-grain disseminated overall.

242.90 243.00 V3B

Basalte

242.9m-243m basalt, carbonate replacement.(Carbonate/sericit altered ash?) Mineralized up to 1% rare disseminated(stringers?).

243.30 243.40 V3B

Basalte

243.3m-243.4m basalt, carbonate replacment.(Carbonate/sericite altered ash?) Mineralized up to 1% rare disseminated(stringers?).

245.30 246.70 I2D; PO

Syénite; Porphyrique

245.3m-246.7m syenite, pink, medium,porphyritic, to gradually changing to aphanitc, K-feldspar/ car/hematite /sil,fractured. Mineralized up to 4% fine-grain pyrite fracture filling to disseminated.

239.46 240.15 FK; CB; HM; MG

Altération en feldspath potassique; carbonatization; Hématisation; Magn

239.46-240.15mPossible mafic tuff, magnetite, k-feldspar/hematitecarb with moderate silica felsic fragments, (SYE?)sheared, and fractureured, with <40% V3B. k-feldspar/hematitecarb with local silicification.Mineralized up to 5% fine-grain pyrite disseminated.

240.15	241.90	CB; HM; FK
		carbonatization; Hématisation; Altération en feldspath potassique
		V3B aphantic, fenites, 20% high potassium felsics, mineralized up to 1% fine-grain disseminated overall.
241.90	242.30	SR; SI; CB
		Séricitisation; Silicification; carbonatization
		Tuff/Flow breccia(polygenic breccia?)silicification/ser/felsic breccia?, hematite/k-feldspar/carbonate/sil overall.
242.30	242.90	CB; HM
		carbonatization; Hématisation
		Carbonate/hematite/K.
242.90	243.40	CB; SR
		carbonatization; Séricitisation
		242.9m-243m , 243.3m-243.4m basalt, carbonate replacment.(Carbonate/Sericite altered ash?). Mineralized up to 1% rare disseminated (stringers?).
243.40	245.30	CB; HM
		carbonatization; Hématisation
		Carbonate/hematite/K.
245.30	246.70	FK; CB; HM; SI
		Altération en feldspath potassique; carbonatization; Hématisation; Silicifi
		245.3m-246.7m SYE, pink, med'm,porph'c, to gradually changing to aphanitc,, k-feldspar/car/hematitesil, fractureured.
246.70	247.42	HM; CB
		Hématisation; carbonatization
		Carbonate/hematite/K.
239.46	240.15	PY05
		Pyrite 5%
		MN up to 5% fine-grain pyrite disseminated .
240.15	242.90	PY01
		Pyrite 1%
		Up to 1% medium-grain to fine-grain pyrite
242.90	243.40	PY01
		Pyrite 1%
		mineralized up to 1% rare disseminated (stringers?)
243.40	245.30	PY01
		Pyrite 1%
		Up ti 1% fine-grain pyrite disseminated.

245.30 246.70 PY04

Pyrite 4%

syenite, pink, medium, porphyritic, to gradually changing to aphanitc, k-feldspar/car/hematite/sil, fractured.mineralized up to 4% fine-grain pyrite fracture filling to disseminated

246.70 246.77 PY10

Pyrite 10%

one quartz vein at 30 deg tca, moderate fracture ed concordant, host is V3B-I2D strongly carbonatized with k-feldspar/carb envelope, mineralized up to 10% medium-grain to fine-grain fracture filling to disseminated. Marks up the lower contact.

246.77 247.42 PY01

Pyrite 1%

1% pyrite decreasing

239.46 240.15 FA; CS

Fracturé(e); Cisaillé(e)

Possible mafic tuff, MAG, k-feldspar/hematite/carbonate with moderate silica felsic fragments, (syenite?) sheared, and fractured, with <40% basalt. k-feldspar/hematite/carbonate with local silicification.MIN up to 5% fine-grain pyrite disseminated.

245.30 246.70 FA

Fracturé(e)

245.3m-246.7m syenite, pink, med'm, porph'c, to gradually changing to aphanitc, k-feldspar/carbonate/hematite/ silicification, fractured.

From	To	Description
247.42	**250.10**	I2D; PO **Syénite; Porphyrique** Syenite. Pink color, medium grain, porphyritic texture, non deformed silicified/carbonate filled modeate fracturing at ~60degree to core axis mostly mineralized.Carbonate/K-feldspar-feldspar/silicified with moderate hematite. 248.2m-248.36 one carbonatite, fine grain, massive at 50 degree to core axis. Mineralization is up to 1% Pyrite overall with up to 2-3% fine to very fine grian Pyrite to fracture filling (249m-250m). Lower contact graditional fracture controlled.
248.20	248.36	I4Q **Carbonatite 50°**

From	To	Len	SampleID	Au (ppm)	Method	Certificate
247.00	248.00		V472684	**0.1560**	Au-ICP21	VO20069233
248.00	249.00		V472685	0.0450	Au-ICP21	VO20069233
249.00	250.00		V472686	**0.1270**	Au-ICP21	VO20069233

248.2m-248.36 one carbonatite, fine grain, massive at 50 degree to-core-axis.

247.42 250.10 CB; FK; SI

carbonatization; Altération en feldspath potassique; Silicification

Carbonate/k-feldspar/sil'd with moderate hematite.

247.42 249.00 PY01

Pyrite 1%

Up to 1% fine-grain pyrite disseminated.

249.00 250.00 PY03

Pyrite 3%

up to 2-3% fine-grain to very-fine-grain pyrite fracture filling

From	To	Description
250.10	**273.20**	TU **Tuf non divisé 45°** Tuff, mafic?.Magnetic, aphanitic, chlorite altered lapilli? with magnetite overprinting, Fenitized.Fractured with <5% carbonate filled fractures at high angle to core axis. One carbonate? unit at 253.78m-254.08m at 30 degree to core axis. Mineralization is up to 3% medium to fine grain Pyrite disseminated.255.7m-255.86m carbonate vein.252.7m-253.37 one syenitemite, medium grain, subhedral, porphyritic, strong carbonate/hematite/K-feldspar alteration.259.5m-262.3m ~30% carbonate uit at 30 degree to core axis. 261.4m-261.9m 75% carbonate units at 30 degree to core axis,262.3m-262.38m one carbonate at 30 degree to core axis.262.9m-263.6m altered coarse grain, porphyritic syenite, fractured, micro-brecciated, 1% Pyrite.Lower contact at 45 degree to core axis.
252.70	253.37	I2D; PO **Syénite; Porphyrique** 252.7m-253.37 one syenite, medium, subeuhedral, porphyritic, strong/cerb/hematite/k.
253.78	254.08	I4Q **Carbonatite 30°** One carbonatite? unit at 253.78m-254.08m at 30 degree to-core-axis. Mineralized up to 3% medium-grain fine-grain pyrite disseminated.
255.70	255.86	I4Q **Carbonatite** 255.7m-255.86m carbonate vein.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
250.00	251.00		V472687	**0.1680**	Au-ICP21	VO20069233
251.00	252.00		V472689	0.0070	Au-ICP21	VO20069233
252.00	253.00		V472690	0.0120	Au-ICP21	VO20069233
253.00	254.00		V472691	**0.1250**	Au-ICP21	VO20069233
254.00	255.00		V472692	**0.3220**	Au-ICP21	VO20069233
255.00	256.00		V472693	0.0400	Au-ICP21	VO20069233
256.00	257.00		V472694	0.0110	Au-ICP21	VO20069233
257.00	258.00		V472695	0.0070	Au-ICP21	VO20069233
258.00	259.00		V472696	0.0050	Au-ICP21	VO20069233
259.00	260.00		V472697	0.0090	Au-ICP21	VO20069233
260.00	261.00		V472698	0.0100	Au-ICP21	VO20069233
261.00	262.00		V472699	0.0490	Au-ICP21	VO20069233
262.00	263.00		V472700	0.0120	Au-ICP21	VO20069233
263.00	264.00		V472701	**0.5930**	Au-ICP21	VO20069233
264.00	265.00		V472702	**0.1220**	Au-ICP21	VO20069233
265.00	266.00		V472703	0.0840	Au-ICP21	VO20069233
266.00	267.00		V472705	0.0710	Au-ICP21	VO20069233
267.00	268.00		V472706	0.0740	Au-ICP21	VO20069233
268.00	269.00		V472707	0.0990	Au-ICP21	VO20069233
269.00	270.00		V472708	**0.1170**	Au-ICP21	VO20069233
270.00	271.00		V472709	0.0630	Au-ICP21	VO20069233
271.00	272.00		V472710	0.0100	Au-ICP21	VO20069233
272.00	273.00		V472711	**0.3090**	Au-ICP21	VO20069233

259.50 262.30 I4Q

Carbonatite 30°

259.5m-262.3m ~30% carbonatite uit at 30 degree to-core-axis.

262.30 262.40 I4Q

Carbonatite 30°

One carbonatite at 30 degree to-core-axis.

262.40 263.60 I2D; PO

Syénite; Porphyrique

262.9m-263.6m altered coarse, porphyric syenite, fractured, micro-brecciated, 1% pyrite.

250.10 252.70 CL; MG; CB

Chloritisation; Magnétite; carbonatization

Chlorite altered lapilli? Wth magnetite overprinting, Fenitized.

252.70 253.37 FK; CB; HM

Altération en feldspath potassique; carbonatization; Hématisation

252.7m-253.37 one syen, med'm, sub-euhedral, porphyr'c, strong/carb/hematite/k.

253.37 262.90 CB

carbonatization

Carbonatization weak moderate chlorite.

262.90 263.60 CB; HM; FK

carbonatization; Hématisation; Altération en feldspath potassique

Altered coarse, porphyritic SYE, fracture’d, micro-brecciated, fenitized.

263.60 273.20 CB

carbonatization

Carbonatization weak moderate chlorite.

250.00 251.10 PY01

Pyrite 1%

Up to 1% fine-grain pyrite disseminated

251.10 253.78 PY00.5

Pyrite 0.5%

trace pyrite

253.78 254.08 PY03

Pyrite 3%

One carbonatite? unit at 30 deg tca.mineralized up to 3% medium-grain fine-grain pyrite disseminated

254.08	262.40	PY00.5 **Pyrite 0.5%** Trace
262.40	263.60	PY01 **Pyrite 1%** altered coarse, porphyritic syenite, fractÆd, micro-brecciated, 1% pyrite.
263.60	273.20	PY01 **Pyrite 1%** trace to 1% fine-grain pyrite disseminated
262.40	263.60	FA **Fracturé(e)** 262.9m-263.6m altered coarse, porphy'c syenite, fract'd, micro-brecciated, 1% pyrite.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
273.20	**275.30**	I2D; PO **Syénite; Porphyrique** Syenite, Tuff? Mineralized Zone, felsic clasts, carbonate/hematite/moderate K-fedspar alteration. Moderate to strong fracturing at 55-60 degree to core axis, foliated at 40 degree to core axis. 274.89-274.96m one carbonate at 50degree to core axis. Mineralization is up to 6% fine to very fine grain Pyrite disseminated.	273.00	274.00		V472712	**0.5290**	Au-ICP21	VO20069233
			274.00	275.00		V472713	**0.6530**	Au-ICP21	VO20069233
274.89	274.96	I4Q **Carbonatite 50°** 274.89-274.96m one carbonatite at 50 degree to-core-axis.							
273.20	275.30	CB; HM **carbonatization; Hématisation** Felsic clasts, carbonate/hematitemoderate K.							
273.20	275.30	PY06 **Pyrite 6%** mineralized up to 6% fine-grain to very-fine-grain pyrite disseminated							
273.20	275.30	FA 55 **Fracturé(e) 55°** Moderate to strong fracturing at 55-60 degree to-core-axis,, fol'd at 40							

degree to-core-axis.

From	To	Description
275.30	**284.00**	TU3 **Tuf mafique** Tuff.Mafic, lapilli, patchy magnetic, cm size mfic and felsic clasts (altered syenite). Fractured with ~10% chlorite/carbonate filled fractures. carbonate/hematite/amphibole alteration replacement, chloritic, moderate fenites(moderate K-feldspar). 279m-286m ~65% carbonate subunits <5-6cm at 45-50degree to core axis. 280.3m-280.43m one carbonate at 40degree to core axis. 281.6m-281.65m cm size syenite injections, 284m one 3cm syenite injection. carbonate/hematite/minor K-feldspar fenites. Mineralized at 0.5-1% fine grain Pyrite overall.Lower contact graditional.
279.00	286.00	I4Q **Carbonatite 45°** ~65% carbonatite subunits <5-6cm at 45-50 degree to-core-axis.
275.30	284.00	CB; HM; AM; CL **carbonatization; Hématisation; Amphibolitisation; Chloritisation** Carbonate/hematite/amph replcament, ch'l, moderate fenites(moderate K).
275.30	284.00	PY01 **Pyrite 1%** MIneralized at 0.5-1% fine-grain pyrite overall.
275.30	284.00	FA **Fracturé(e)** Fractured with ~10% chlorite/carbonate filled fractures.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
275.00	276.00		V472714	**0.2040**	Au-ICP21	VO20069233
276.00	277.00		V472715	**0.4180**	Au-ICP21	VO20069233
277.00	278.00		V472716	**0.2750**	Au-ICP21	VO20069233
278.00	279.00		V472717	0.0590	Au-ICP21	VO20069233
279.00	280.00		V472718	0.0620	Au-ICP21	VO20069233
280.00	281.00		V472719	**0.4590**	Au-ICP21	VO20069233
281.00	282.00		V472720	**0.3610**	Au-ICP21	VO20069233
282.00	283.00		V472722	0.0520	Au-ICP21	VO20069233
283.00	284.00		V472723	0.0730	Au-ICP21	VO20069233

From	To	Description

From	To	Len	SampleID	Au (ppm)	Method	Certificate

284.00 312.40 TU

Tuf non divisé

Tuff.Somewhat heterogenous, fenitized mafic clasts, lapilli, erratic felsic fragments, mm size angular to subangular feldspar phenos, 3-5% chloritic/hematit filled fractures. Decreasing. Carbonate/hematite/moderate K-feldspar to patchy.285-284.5m ~80% carbonate subunits287.8m-289.2m Mineralized fractured zone with carbonate/chlorite fractures at 45-50 degree to core axis and late carbonate filling fractures to 50 degree to core axis. 1-2% fine grain Pyrite disseminated overall with 288.9-289.2m ~6-7% fine to very fine grain Pyrite disseminated, to fracture filling. K-feldspar /silicification altered porphyritic syenite fragments.

291.15m-291.7m Mineralized fractured zone with carbonate/chlorite fractures at 45-50 degree to core axis and late carbonate filling fractures to 50degree to core axis.293.6m-295.97m carbonate rich Mineralized zone fractured with chlorite/carbonate/Pyrite filled fractures at 55 degree to core axis, carbonate/hematite with patchy moderate K-feldspar alteration.Mineralized up to 4% Pyrite overall with up to 7-8% Pyrite locally where denser fracturing(293.6m-293.8m, 295.6m-295.9m)302.8m-303m carbonate/hematite with patchy moderate K-feldspar alteration. Mineralization is up to 8% fine to very fine grain Pyrite disseminated to fracture filling. 292.3m-293.2m stringer hematite, fenitization.

284.00 288.90 CB; HM

carbonatization; Hématisation

Carbonate/hematite/moderate K to patchy.

288.90 289.10 SI; FK; CB

Silicification; Altération en feldspath potassique; carbonatization

288.9-289.2m ~6-7% fine-grain to vfine-grain pyrite disseminated, to fracture filling. K-feldspar/silicification altered porphyritic syenite fragments.

289.10 292.20 CB; HM

carbonatization; Hématisation

Carbonate/hematite moderate K to patchy.

292.30 293.20 HM

Hématisation

292.3m-293.2m stringer hematitization, fenitization.

293.20 302.80 CB; CL

carbonatization; Chloritisation

Carbonatization.

284.00	285.00	V472724	0.0370	Au-ICP21	VO20069233
285.00	286.00	V472725	0.0370	Au-ICP21	VO20069233
286.00	287.00	V472726	**0.1830**	Au-ICP21	VO20069233
287.00	288.00	V472727	**0.2840**	Au-ICP21	VO20069233
288.00	289.00	V472728	**0.6580**	Au-ICP21	VO20069233
289.00	290.00	V472729	**0.8430**	Au-ICP21	VO20069233
290.00	291.00	V472730	**0.3890**	Au-ICP21	VO20069233
291.00	292.00	V472731	**0.7380**	Au-ICP21	VO20069233
292.00	293.00	V472732	0.0590	Au-ICP21	VO20069233
293.00	294.00	V472733	**0.6230**	Au-ICP21	VO20069233
294.00	295.00	V472734	**0.6570**	Au-ICP21	VO20069233
295.00	296.00	V472735	**0.7060**	Au-ICP21	VO20069233
296.00	297.00	V472737	**0.6730**	Au-ICP21	VO20069233
297.00	298.00	V472738	**0.7900**	Au-ICP21	VO20069233
298.00	299.00	V472739	**0.4230**	Au-ICP21	VO20069233
299.00	300.00	V472740	0.0710	Au-ICP21	VO20069233
300.00	301.00	V472741	**0.1310**	Au-ICP21	VO20069233
301.00	302.00	V472742	0.0580	Au-ICP21	VO20069233
302.00	303.00	V472743	0.0650	Au-ICP21	VO20069233
303.00	304.00	V472744	0.0200	Au-ICP21	VO20069233
304.00	305.00	V472745	0.0620	Au-ICP21	VO20069233
305.00	306.00	V472746	0.0260	Au-ICP21	VO20069233
306.00	307.00	V472747	0.0380	Au-ICP21	VO20069233
307.00	308.00	V472748	0.0130	Au-ICP21	VO20069233
308.00	309.00	V472749	0.0160	Au-ICP21	VO20069233
309.00	310.00	V472750	0.0250	Au-ICP21	VO20069233
310.00	311.00	V472751	0.0270	Au-ICP21	VO20069233
311.00	312.00	V472753	0.0310	Au-ICP21	VO20069233

302.80	303.00	FK; CB; HM **Altération en feldspath potassique; carbonatization; Hématisation** 302.8m-303m Carbonate/hematite with patchy moderate K mineralized up to 8% fine-grain to vfine-grain pyrite disseminated to fractureure filling.
303.00	312.40	CB; HM **carbonatization; Hématisation** Carbonate/hematite/moderate K to patchy.
284.00	287.80	PY00.5 **Pyrite 0.5%** trace
287.80	288.90	PY01 **Pyrite 1%** MIneralized up to 1% fine-grain pyrite disseminated
288.90	289.20	PY07 **Pyrite 7%** ~6-7% fine-grain to very-fine-grain pyrite disseminated to fracture filling. k-feldspar/silicification altered porphyritic syenite fragments.
289.20	293.60	PY01 **Pyrite 1%** Up tio 1% pyrite
293.60	293.80	PY08 **Pyrite 8%** Mineralized up to 4% overall with up to 7-8% locally where denser fracturing
293.80	295.60	PY00.5 **Pyrite 0.5%** trace pyrite
295.60	295.90	PY08 **Pyrite 8%** Mineralized up to 4% overall with up to 7-8% locally where denser fracturing
295.90	302.80	PY01 **Pyrite 1%** Up to 1% fine-grain pyrite disseminated

302.80	303.00	PY08	
		Pyrite 8%	
		302.8m-303m Carbonate/hematite with patchy moderate K mineralized up to 8% fine-grain to very-fine-grain pyrite disseminated to fracture filling.	
303.00	312.40	PY00.5	
		Pyrite 0.5%	
		trace pyrite	
287.80	289.20	FA	45
		Fracturé(e) 45°	
		287.8m-289.2m mineralized fracture zone with carbonate/chlorite fractures at 45-50 degree to-core-axis and late carbonate filling fractures to 50 degree to-core-axis.	
291.15	291.70	FA	45
		Fracturé(e) 45°	
		291.15m-291.7m mineralized fractured zone with carbonate/chlorite fractures at 45-50 degree to-core-axis and late carbonate filling fractures to 50 degree to-core-axis.	
293.60	293.80	FA	
		Fracturé(e)	
		denser fracturing(293.6m-293.8m, 295.6m-295.9m).	
295.60	295.90	FA	
		Fracturé(e)	
		denser fracturing(293.6m-293.8m, 295.6m-295.9m).	

From	To	Description
312.40	**314.80**	TU
		Tuf non divisé 60°
		Tuff, possibly altered basalt?Mineralized Zone. Strongly hematite/Fe-carbonate at upper unit (312.4m-313m313.1m), streched feldspar to elongated, Fe-carbonate altered felsic fragments.Carbonate/chlorite/pyrite , few accicular actinolite sections, with <10% chlorite/Pyrite filled fractured at 40-50degree to core axis.Mineralized at 4-5% medium to fine grain disseminated Pyrite to fracture filling overall.Lower contact at approx 60 degree to core axis.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
312.00	313.00		V472754	**0.4530**	Au-ICP21	VO20069233
313.00	314.00		V472755	**0.2250**	Au-ICP21	VO20069233
314.00	315.00		V472756	0.0950	Au-ICP21	VO20069233

312.40	313.10	HM; CB	
		Hématisation; carbonatization	
		Strongly hem/Fe-carb at upper unit.	

313.10 314.80 CB; CL; AM

carbonatization; Chloritisation; Amphibolitisation

Carbonate/chlorite/pyrite , few accicular actinolite sections, with <10% chlorite/pyrite filled fractureured at 40-50 deg tca.

312.40 314.80 PY05

Pyrite 5%

Mineralized at 4-5% medium-grain to fine-grain disseminated pyrite to fracture filling overall.

312.40 314.80 FA 45

Fracturé(e) 45°

<10% chlorite/pyrite filled fractured at 40-50 degree to-core-axis.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
314.80	**319.00**	V3B AP	315.00	316.00		V472757	0.0460	Au-ICP21	VO20069233
		Basalte 45°; Aphanitique	316.00	317.00		V472758	0.0140	Au-ICP21	VO20069233
		Basalt(possibly altered ash?).Beige, aphanitic, moderate shearing at 40 degree to core axis, reddish color, angular to subangular felsic fragments? to felsic mm size injections, Pyrite overprinted.	317.00	318.00		V472759	0.0410	Au-ICP21	VO20069233
			318.00	319.00		V472760	**0.1790**	Au-ICP21	VO20069233
		sericite/silicification/carbonate.Sparse carbonate. Sericite filled fractures at 50 degree to core axis.316.55m-31¬318m felsic volcanic, V1? fine grain.Mineralized at 1% medium to fine grain Pyrite disseminated.Lower contact at approx, 45 degree to core axis, fracture controlled.							
		316.55 318.00 V1							
		Volcanique felsique non divisé							
		316.55m-31¬318m V1? fine grain.							
		314.80 319.00 SR; SI; CB							
		Séricitisation; Silicification; carbonatization							
		Sericite/silicification/carbonate.							
		314.80 319.00 PY01							
		Pyrite 1%							
		Mineralized at 1% medium-grain to fine-grain pyrite disseminated.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

319.00	**325.00**	TU	
		Tuf non divisé	
		Tuff.Weakly magnetic, patchy, heterogenious, beige to green,aphanitic, faint elongated feldspar laths, to banding, lapilli, mm size reddish hematiteatit altered felsic fragments.Sheared at 40 degree to core axis,with wide spaced carbonate filled fractures concordant. 320m-320.3m volcanics? (medium grain syenite?) altered with mm size quartz, carbonate/hematite to ferro/carbonate banding.Mineralized up to 1% fine grain Pyrite disseminated to fracture filling and up to 5% fracture filling to disseminated Pyrite where dense fracturing(320.9m-321m, 323.4m-324.m).	
320.00	320.50	V1	
		Volcanique felsique non divisé	
		Volcanoclastic?(medium grain syenite?) altered with mm size quartz, carbonate/hematite to ferro/carbonate banding.	
319.00	325.00	CB; HM	
		carbonatization; Hématisation	
		Carbonate/hematite to ferro/carbonate banding.	
319.00	320.90	PY01	
		Pyrite 1%	
		Mineralized up to 1% fine-grain pyrite disseminated to fracture filling	
320.90	321.00	PY05	
		Pyrite 5%	
		up to 5% fracture filling to disseminated pyrite where dense fracturing	
321.00	323.40	PY01	
		Pyrite 1%	
		Mineralized up to 1% fine-grain pyrite	
323.40	325.00	PY05	
		Pyrite 5%	
		up to 5% fracture filling to disseminated pyrite where dense fracturing (320.9m-321m, 323.4m-324.m)	

From	To	Len	SampleID	Au (ppm)	Method	Certificate
319.00	320.00		V472761	0.0820	Au-ICP21	VO20069233
320.00	321.00		V472762	0.0840	Au-ICP21	VO20069233
321.00	322.00		V472763	**0.4970**	Au-ICP21	VO20069233
322.00	323.00		V472764	**0.1550**	Au-ICP21	VO20069233
323.00	324.00		V472765	0.0590	Au-ICP21	VO20069233
324.00	325.00		V472766	**0.1290**	Au-ICP21	VO20069233

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
325.00	**328.40**	I2D; PO **Syénite; Porphyrique** Syenite. Orange, porphyritic, silicified altered, k-feldspar/carbonate. Mineralized Zone.Silicifed /Pyrite hairline filled fractures at 45 degree to core axis with wide spaced carbonate/silica filled late fracture at 60 degree to core axis.Mineralization is up to 5% fine to very fine grain PyriteLower contact flow breccia/tuff? at 60 degrees to core axis.	325.00	326.00		V472767	**0.4680**	Au-ICP21	VO20069233
			326.00	327.00		V472768	**0.7380**	Au-ICP21	VO20069233
			327.00	328.00		V472770	**0.2850**	Au-ICP21	VO20069233
325.00	328.40	SI; CB **Silicification; carbonatization** Silicified altered, k-feldspar/carbonate/sil.							
325.00	328.40	PY05 **Pyrite 5%** mineralized up to 5% fine-grain to very-fine-grain pyrite							
325.00	328.40	FA 45 **Fracturé(e) 45°** sil'd pyrite/ hairline filled fractures at 45 degree to-core-axis with wide spaced carbonate/silicification'd filled late fracture at 60 degree to-core-axis.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
328.40	**330.16**	V3B AP **Basalte; Aphanitique** Basalt, (possible ash)Beige to yellowish,aphanitic, sheared at 40 degree to core axis, sericification unit.Mineralization is trace Pyrite.Lower contact felsic fragments defined.	328.00	329.00		V472771	**0.4100**	Au-ICP21	VO20069233
			329.00	330.00		V472772	0.0720	Au-ICP21	VO20069233
328.40	330.16	SR **Séricitisation** Sericitization unit.							
328.40	330.16	CS 40 **Cisaillé(e) 40°** sheared at 40 degree to-core-axis.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

330.16	**343.80**	TU	
		Tuf non divisé	
		Tuff.Magnetic, heterogeneous, cm size felsic fragments, carbonate fragments to mm size intrusions, fenitized mafic fragments, sericite edges, altered.333m, 334.6m-335.57m 40% disseminatedolution cavity with Pyrite/contacthopyrite and specularite. 337.9m-338.8m felsic fragments fractured unit with up to 4% fine grain Pyrite disseminated.340.5m-340.6m 2-3% specularite with Pyrite overprints.342.5m-343m strong fenitization, Fe-carbonate increaseLower contact graditional.	
330.60	335.57	CB; FK; HM; SR	
		carbonatization; Altération en feldspath potassique; Hématisation; Séricit	
		Carbonatite fragments to mm size intrusions, Fenitized mafic frags, sericite edges, altered.	
342.50	343.80	FK; CB; HM	
		Altération en feldspath potassique; carbonatization; Hématisation	
		342.5m-343m strng fenitization, Fe-carbonate increase.	
328.40	334.60	PY00.5	
		Pyrite 0.5%	
		mineralized trace.	
334.60	335.57	PY00.5; CP00.5; HS02	
		Pyrite 0.5%; Chalcopyrite 0.5%; Spécularite 2%	
		40% dissoultion cavity with pyrite Chalcopyrite and specularite	
335.57	337.90	PY00.5	
		Pyrite 0.5%	
		Trace pyrite	
337.90	338.80	PY04	
		Pyrite 4%	
		337.9m-338.8m felsic fragments fracture d unit with up to 4% fine-grain pyrite disseminated .	
338.80	340.50	PY00.5	
		Pyrite 0.5%	
		trace	
340.50	340.60	HS03; PY00.5	
		Spécularite 3%; Pyrite 0.5%	
		2-3% specularite with pyrite overprints.	
340.60	343.80	PY00.5	
		Pyrite 0.5%	
		trace pyrite	

330.00	331.00	V472773	0.0430	Au-ICP21	VO20069233
331.00	332.00	V472774	0.0450	Au-ICP21	VO20069233
332.00	333.00	V472775	0.0220	Au-ICP21	VO20069233
333.00	334.00	V472776	0.0400	Au-ICP21	VO20069233
334.00	335.00	V472777	0.0250	Au-ICP21	VO20069233
335.00	336.00	V472778	0.0190	Au-ICP21	VO20069233
336.00	337.00	V472779	0.0170	Au-ICP21	VO20069233
337.00	338.00	V472780	0.0130	Au-ICP21	VO20069233
338.00	339.00	V472781	0.0270	Au-ICP21	VO20069233
339.00	340.00	V472782	0.0400	Au-ICP21	VO20069233
340.00	341.00	V472783	0.0180	Au-ICP21	VO20069233
341.00	342.00	V472785	0.0170	Au-ICP21	VO20069233
342.00	343.00	V472786	0.0160	Au-ICP21	VO20069233
343.00	344.00	V472787	0.0110	Au-ICP21	VO20069233

From	To	Description
343.80	**347.20**	V3B AP **Basalte; Aphanitique** Basalt.Grey to reddish, aphanitic, (possibleTuff, mafic?), fenitized incerasing, <10% erratic carbonate filling fracturing to en-echellon. Ferro/carbonate with strong fenitzation. Few disseminatedolution cavity at 346.5m-347m.Mineralized trace to 0.5% medium grain Pyrite cavity controlled.E.O.H
343.80	347.20	CB; HM; FK **carbonatization; Hématisation; Altération en feldspath potassique** Ferro/carbonate with strong fenitzation.
343.80	347.20	PY00.5 **Pyrite 0.5%** Mineralize trace to 0.5% medium-grain pyrite cavity controlled.
343.80	347.20	FA **Fracturé(e)** <10% erratic calcite filling fracturing to en-echellon.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
344.00	345.00		V472788	0.0090	Au-ICP21	VO20069233
345.00	346.00		V472789	0.0200	Au-ICP21	VO20069233
346.00	347.20		V472790	0.0140	Au-ICP21	VO20069233

Downhole Survey

Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method
0.00	9.00	-50.00	Collar	42.00	357.40	-52.00	Reflex EZ-Gyro	54.00	357.53	-51.96	Reflex EZ-Gyro
66.00	357.90	-51.90	Reflex EZ-Gyro	96.00	357.40	-51.70	Reflex EZ-Gyro	126.00	103.00	-51.60	Reflex EZ-Gyro
156.00	358.61	-51.43	Reflex EZ-Gyro	179.00	358.06	-51.80	Reflex EZ-Gyro	216.00	357.80	-51.30	Reflex EZ-Gyro
249.00	358.50	-50.30	Reflex EZ-Gyro	276.00	357.30	-49.50	Reflex EZ-Gyro	300.00	357.50	-49.50	Reflex EZ-Gyro

Drillhole Information

Easting: 707882.92
Northing: 5490081.29
Elevation: 300.61
Azimuth 360.00
Dip -53.50

Drilling Information

DrillCo: RJLL
DrillID: FSD002
DrillStart: 10-Mar-20
DrillEnd: 13-Mar-20
Length (m): 279.00

Logging Information

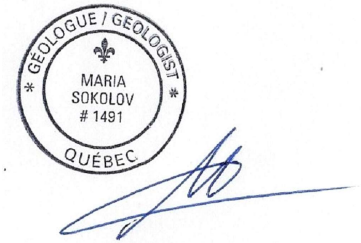
LogBy: M. Sokolov (OGQ #1491)
LogStart: 16-Mar-20
LogEnd: 21-Mar-20

Drillhole Summary

Logged by Leslie Hunt, GIT and Maria Sokolov, OGQ.

Intercepts >= 0.1 ppm

Hole_ID	From	To	Length	Au (ppm)
DO-20-276	183	184	1	0.1
DO-20-276	198	200.5	2.5	0.129
DO-20-276	206	209	3	0.114
DO-20-276	211	212	1	0.105
DO-20-276	214	219	5	0.238
DO-20-276	226.65	227.3	0.65	0.224



M. Sokolov (OGQ #1491)
12-Jan-22

Lithology and Assay Results

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
0.00	**48.20**	M-T **Mort terrain** Overburden.							
23.00	49.60	PY1-3 **Pyrite 1-3** Pyritte is disseminated and along silica filled structures.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
48.20	**49.60**	I2D; BX **Syénite; Brèche** The upper contact is ovb, the bottom contact with the carbonatite is sharp at 50 degrees. Coarse grained syenite with abundant quartz veining or silica flooding. There is low angle of about 10 degrees that has a mineralized carbonatite dyke the intrudes the lithology. The interval is chaotic in nature, potentially volume loss alteration with an infil of silica as opposed to a true hydrothermal fracturing? Calcite-carbonate (carbonatite?) also cements this "breccia" texture. Pyrite is disseminated throuout the interval proximal to structures and to breccia infill.	48.50 49.00	49.00 49.50		A0102347 A0102348	0.0010 0.0050	Au-ICP21 Au-ICP21	VO20069218 VO20069221
48.20	49.60	SI; CB; HM **Silicification; Carbonatisation; Hématisation** Interval has intense silica, this could be alteration or infilling quartz veins? Moderately pervasive carbonate, infilling with quatz as well as disseminated. There is a weak pink colour for this interval, indicating weak disseminated hemattie.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description
49.60	**51.10**	I4Q **Carbonatite** Carbonatite dyke with sharp but irregular contacts. Medium to fine-grained grey-white interval. Homogeneous. Abundant REEs when analyzed with the XRF. There is quartz veining in this zone that has a hematite halo of 5 mm on either side. This could be related to the cenerting and volume loss/ hydrothermal brecciation, or there could have been a volume loss silica phase subsequently followed by a carbonatite intrusive event? There is fine disseminated pyrite thoughout this interval, in between the fractures.
49.60	51.10	CB; CC; HM **Carbonatisation; Calcitisation; Hématisation** Quartz veins infill fractures, fractures have 5 mm hematite halos that surround them. This could indcate that there is later potassic alteration overprinting the dyke?
49.60	51.10	PY1-3; MG01 **Pyrite 1-3; Magnétite 1%** Pyrtie is disseminated within the carbonatite in between the fractures. Interval is strongly magnetic.
49.60	51.10	FA 65 **Fracturé(e) 65°** Spaced fracture set at roughly 65 degrees through the carbonatite interval.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
49.50	50.10		A0102349	0.0090	Au-ICP21	VO20069221
50.10	51.00		A0102350	0.0260	Au-ICP21	VO20069221

From	To	Description
51.10	**52.35**	I2D **Syénite** Contacts of this interval are sharp but very iregular in nature. This is brecciated syenite, with low angle carbonatite dykes intruding at irregular angles. There is patchy carbonatite - this could be a shallow angle dyke that is only being intersected irregularly, or this could be a brecciated mixed zone. There is also calcite infilling. The interval is medium to coarse-grained, pink in colour. There is patchy iron carbonate alteration creating halos around the carbonatite.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
51.00	51.70		A0102351	0.0120	Au-ICP21	VO20069221
51.70	52.40		A0102353	0.0070	Au-ICP21	VO20069221

Pyrite is strongly concentrated along the margins of the low angle carbonatites. Magnetite is associated with the carbonatite and not the host syenite.

51.10 52.35 CB; CC; HM; SI

Carbonatisation; Calcitisation; Hématisation; Silicification

The interval has iron carbonate forming halos around the carbonatite intrusions.
There is calcite/ carbonate infill of cavities, forming a brecciated texture of the rock.
The rock is pink in colour, indicating that there is disseminaed hematite.
There is patchy silica flooding? also located aroung the contacts with the carbonatite patched.

51.10 52.35 PY1-3; MG00.5

Pyrite 1-3; Magnétite 0.5%

Pyrite is strongly concentrated along the margins of the low angle carbonatites.
Magnetite is assoicated with the carbonatite and not the host syenite.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
52.35	**53.35**	I2D; PO **Syénite 13°; Porphyrique** Contacts are sharp and at a shallow core angle at 13 degrees. Carbonatite cuts the upper contact. Interval is grey with 5 mm - 1 cm aggregates of carbonate/ calcitic materiel? They effervesce and are composed of fine grained crystals. The ground mass is fine grained. The interval is massive with late over printing fractures. There are quartz carbonate veins that cut the interval and there is fine grained pyrite mineralization along the margins.	52.40	53.30		A0102354	0.0020	Au-ICP21	VO20069221

52.35 53.35 CB; HM

Carbonatisation; Hématisation

Interval has a semi-pervasive iron carbonate alteration of the groundmass, and a weak disseminated hematization giving the pink/ mauve colouring.

52.35 53.35 PY0.5-1; MGTR

Pyrite 0.5-1; Magnétite TR

There are quartz-carbonate veins that cut the interval and there is fine

grained pyrite mineralization along the margins.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
53.35	**53.80**	I4Q **Carbonatite** Contacts are sharp at shallow core angles at the top of the interval at 13 degrees and at the bottom of the interval at 20. Although there could be gradational realtionship with the carbonatite and the breccia that follows it. Interval is homogenious, and appears to begin forming a foliation towards the contacts of the interval. Pyrite is weakly concentrated along the contacts.	53.30	54.00		A0102355	0.0070	Au-ICP21	VO20069221
53.35	53.80	CB **Carbonatisation** Homogeneous carbonatite, little alteration.							
53.35	53.80	PY00.5; MG01 **Pyrite 0.5%; Magnétite 1%** Pyrite is concentrated along the contacts of the interval. Interval is strongly magnetic.							
53.35	53.80	CS 40 **Cisaillé(e) 40°** Foliation deffined by the alignment of dark fine grained minerals (biotite?)							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
53.80	**54.60**	I2D; BX **Syénite; Brèche** Contact with the previous interval is sharp (although could be involved with the brecciation). The bottom contact is sharp at 40 degrees. Crackle breccia infilled with calcite - carbonate. Fragments range from 10 cm to 5 mm in size. There seems to have been little displacement of the fragments. There is fine grained pyrtie along the margins of the fragments. Patchy magnetite.	54.00	54.60		A0102356	0.0120	Au-ICP21	VO20069221

53.80 54.60 CC; CB

Calcitisation; Carbonatisation

Calcite carbonatite infill crackle breccia.

53.80 54.60 PYTR; MGTR

Pyrite TR; Magnétite TR

Pyrite is finly disseminated along the fragment margins. Patchy magnetite.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
54.60	**56.45**	I2D (V3B)	54.60	55.40		A0102357	0.0040	Au-ICP21	VO20069221
		Syénite avec 5 à 25% de basalte	55.40	56.40		A0102358	0.0230	Au-ICP21	VO20069221
		The upper contact is sharp at 40 degrees and the lower contact is gradational and deffined by the alteration/ syenite injections. Mix zone of basalt and syenite injections? Could have just intersected a low core angle dyke? Patchy syenite within basalts. Syenite ranges from massive to porphyritic. Pyrite is disseminated along the contacts of the syenite and within chaotic fracturing within. Basalt is fine grained gree-grey weakly finitized and with brown patchy alteration? (biotite?). Local silicious material rims infilled fractures. Fractures are infilled with calcite/carboante.							

54.60 56.45 CB; CC; SI; HM

Carbonatisation; Calcitisation; Silicification; Hématisation

There is brown patchy alteration? within the basalts (biotite?).
Local silicious material rims infilled fractures.
Fractures are infilled with calcite/carbonate.
Disseminated hematite giving a pink colour.

54.60 56.45 PY00.5; MG00.5

Pyrite 0.5%; Magnétite 0.5%

Pyrite is disseminated along the contacts of the injections as well as along fracturing. Magnetite is associated with the calcite/ carbonate infill.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description
56.45	**82.50**	V3B **Basalte** The top contact of this interval is gradational/ irregular and is defined by where the syenite injections end. The bottom contact is sharp at XX degrees. Fine to medium grained, green-grey basalt. There is patchy epidote alteration, carbonate and epidote infilling fractures. There is pervasive chlorite and potential amphibole. There is a red/brown alteration overprinting epidote, this could just be potassic K-fedspar alteration or hydrothemal garnet (MS)? There is abundant syenitie intrusions, some with irregular sharp boundaries, these could be injections into basat? Pyrite is concentraited along the boundaries and within the syenitie intrusions. The fracturing in this interval..... 60.6 - 60.8 -> Mineralized syenite dyke - 0.5% 62.4 - 62.6 -> Carbonatite dyke. 64.3 - 64.8 -> Mineralized syenite dyke - 0.5% 67.6 - 68.0 -> Mineralized syenite dyke - 0.5% 73.7 - 73.9 -> Carbonatite dyke.
60.60	60.80	I2D **Syénite** Syenite dyke with shape contacts and disseminated pyrite along the contacts.
62.40	62.60	I4Q **Carbonatite** Carbonatite dyke, pyrite is disseminated along the contacts and within the dyke

From	To	Len	SampleID	Au (ppm)	Method	Certificate
56.40	57.20		A0102359	0.0020	Au-ICP21	VO20069221
57.20	58.00		A0102360	0.0100	Au-ICP21	VO20069221
58.00	59.00		A0102361	0.0440	Au-ICP21	VO20069221
59.00	59.60		A0102362	0.0190	Au-ICP21	VO20069221
59.60	60.50		A0102363	0.0170	Au-ICP21	VO20069221
60.50	61.10		A0102364	0.0080	Au-ICP21	VO20069221
61.10	62.00		A0102365	0.0150	Au-ICP21	VO20069221
62.00	62.70		A0102366	0.0120	Au-ICP21	VO20069221
62.70	63.40		A0102367	0.0090	Au-ICP21	VO20069221
63.40	64.20		A0102368	0.0230	Au-ICP21	VO20069221
64.20	65.00		A0102370	0.0100	Au-ICP21	VO20069221
65.00	66.00		A0102371	0.0170	Au-ICP21	VO20069221
66.00	66.70		A0102372	0.0260	Au-ICP21	VO20069221
66.70	67.50		A0102373	0.0120	Au-ICP21	VO20069221
67.50	68.30		A0102374	0.0060	Au-ICP21	VO20069221
68.30	69.10		A0102375	0.0210	Au-ICP21	VO20069221
69.10	70.00		A0102376	0.0470	Au-ICP21	VO20069221
70.00	71.00		A0102377	0.0220	Au-ICP21	VO20069221
71.00	72.00		A0102378	0.0190	Au-ICP21	VO20069221
72.00	73.00		A0102379	0.0100	Au-ICP21	VO20069221
73.00	74.00		A0102380	0.0320	Au-ICP21	VO20069221
74.00	75.00		A0102381	0.0120	Au-ICP21	VO20069221
75.00	76.00		A0102382	0.0130	Au-ICP21	VO20069221
76.00	77.00		A0102383	0.0140	Au-ICP21	VO20069221
77.00	78.00		A0102385	0.0290	Au-ICP21	VO20069221
78.00	79.00		A0102386	0.0190	Au-ICP21	VO20069221
79.00	80.00		A0102387	0.0310	Au-ICP21	VO20069221
80.00	81.00		A0102388	0.0160	Au-ICP21	VO20069221
81.00	82.00		A0102389	0.0240	Au-ICP21	VO20069221
82.00	82.50		A0102390	0.0060	Au-ICP21	VO20069221

From	To	Description
82.50	**83.90**	I2D; PO **Syénite 10°; Porphyrique** Contacts of this interval are sharp, both at 10 degrees. Pink to grey, with 5 mm aggregates of feldspar, carbonate? Proximal to the contacts, there larger aggregates become green in colour, from the proximal epidote alteration? The fragments are grey on the inside and have a 1 mm white rim. The interval is mostly homogeneous with local fracturiing. Fractures are infilled with calcite/ carbonate and epidote alteration. The whole interval has weak pervasive iron carbonate alteration. There is little to no pyrite within the dyke.
82.30	83.50	I3; PO **Intrusif mafique 30°; Porphyrique** Mafic intrusive? Sharp irregular contacts with up to 5 mm prismatic ferromagnesians.
82.50	83.90	CB; HM; EP **Carbonatisation; Hématisation; Épidotisation** Proximal to the contacts there larger aggregates become green in colour, from the proximal epidote alteration? The fragments are grey on the inside and have a 1 mm white rim. The groundmass has disseminated hematite, giving a pink colour. Fractures are infilled with calcite/ carbonate and epidote alteration. The whole interval has weak pervasive iron carboante alteration.
82.50	83.90	PYTR **Pyrite TR** Trace to no pyrite.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
82.50	83.20		A0102391	0.0005	Au-ICP21	VO20069221
83.20	83.90		A0102392	0.0050	Au-ICP21	VO20069221

From	To	Description
83.90	**90.20**	V3B **Basalte 10°** Contacts of this interval are sharp with the top contact at 10 degrees and the bottom at 40 degrees. FIne to medium grained basalt, green-grey in color. Patchy epidote and hematite stained K-feldspar. Epidote carbonate infill fractures. Calcite (carbonatite?) infills localized fractures > 5 mm in size. Calcite is associated with the patches of epidote. Fracturing is chaotic, this appears to be a flow, possibly some amydules that

From	To	Len	SampleID	Au (ppm)	Method	Certificate
83.90	85.00		A0102393	0.0410	Au-ICP21	VO20069221
85.00	86.00		A0102394	0.0090	Au-ICP21	VO20069221
86.00	87.00		A0102395	0.0140	Au-ICP21	VO20069221
87.00	88.00		A0102396	0.0100	Au-ICP21	VO20069221
88.00	89.00		A0102397	0.0100	Au-ICP21	VO20069221
89.00	90.00		A0102398	0.0300	Au-ICP21	VO20069221

have been over printed with alteration?

There is pyrite infilling fractures associated with epidote carbonate alteration.

85.45 85.80 I3; PO

Intrusif mafique 60°; Porphyrique

Mafic intrusive? Sharp irregular contacts with up to 5 mm prismatic ferromagnesians. Fractures crosscut this zone. Pyrite mineralization is weakly concentrated along the margins.

83.90 90.20 EP; FK; CB; CC

Épidotisation; Altération en feldspath potassique; Carbonatisation; Calciti

Patchy epidote and hematite stained K-feldspar.
Epidote carbonate infill fractures.
Calcite (carbonatite?) infills localized fractures > 5 mm in size.
Calcite is associated with the patches of epidote.

83.90 90.20 PY00.5

Pyrite 0.5%

There is pyrite infilling fractures associated with epidote carbonate alteration.

From	To	Description
90.20	**94.20**	I3; V3B **Intrusif mafique 40°; Basalte** Mafic? Intrusive mafic? or porphyritc syenite? Contacts are of this interval are sharp, but alteration seems to cross the contacts 10 cm on either side. Fine grained rock with up to 2 mm laths of biotite (an/or amphiboles). This could be a dervived from a differentiated magma where there was an abundance of iron allowing the biotite and/or amphibole to crystalize to be larger then the surrounding rock? There is an abundance of PO4 in the rock, indicating potential fluorite/ apatite? There are fractures that corss cut the interval as well as the contacts. These fractures are infilled with either calcite/ carboate (carbonatite?) or K-feldspar . The groundmass has been weakly epidoitized, with epidote carbonate infilling local fractures. There is moderate pyrite mineralization along the fractures, associated with the the calcite/ carbonate (cabonatite?) infilled fractures. XRF results... SiO2- 37% Al2O3 - 11.24%

From	To	Len	SampleID	Au (ppm)	Method	Certificate
90.00	91.00		A0102399	0.0030	Au-ICP21	VO20069221
91.00	92.00		A0102401	0.0020	Au-ICP21	VO20069221
92.00	93.00		A0102402	0.0040	Au-ICP21	VO20069221
93.00	93.60		A0102403	0.0090	Au-ICP21	VO20069221
93.60	94.20		A0102404	0.0050	Au-ICP21	VO20069221

Fe 4.6%
MgO 2.57%
PO4 9800 ppm -> apatite?
Ti - 4600 ppm
Mn 1080 ppm
Sr - 370 ppm

90.20 94.20 CL; EP; FK; BO; CB

Chloritisation; Épidotisation; Altération en feldspath potassique; Biotitisa

There are fractures that are infilled with either calcite/ carbonate (carbonatite?) or K-feldsapr .
The groundmass has been weakly epidoitized and chloritized, with epidote carbonate infilling local fractures.
There is an abundance of PO4 in the rock, indicating potential fluorite/ apatite?
*Biotite has been added, but it is unclear if thisis an alteration or a primary texture?

90.20 94.20 PYTR

Pyrite TR

Trace pyrite weakly concentrated within the fractures.

From	To	Description
94.20	**102.00**	V3B **Basalte** Contacts of this interval are relatively gradational and are defined by the alteration. Fine to medium grained, green grey basalt. Patchy epidote and hematite stained K-feldspar (more of a brown colour). The patches of calcite (carbonatite?) as well as infilling fractures. The alteration gives a pseudo brecciated texture. This alteration is most likely from a pillowed sequence.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
94.20	95.00		A0102405	0.0110	Au-ICP21	VO20069221
95.00	96.00		A0102406	0.0380	Au-ICP21	VO20069221
96.00	97.00		A0102407	0.0080	Au-ICP21	VO20069221
97.00	98.00		A0102409	0.0100	Au-ICP21	VO20069221
98.00	99.00		A0102410	0.0230	Au-ICP21	VO20069221
99.00	100.00		A0102411	0.0240	Au-ICP21	VO20069221
100.00	101.00		A0102412	0.0150	Au-ICP21	VO20069221
101.00	102.00		A0102413	0.0120	Au-ICP21	VO20069221

94.20 102.00 EP; FK; CC; CB; CL

Épidotisation; Altération en feldspath potassique; Calcitisation; Carbonati

Patchy epidote with pink/ brown k-feldspar over printing.
There is patchy zones of calcite/ carbonate (carbonatite?)
The groundmass has been pervasively chloritized.

94.20 102.00 PY00.5

Pyrite 0.5%

epodote alteration.

From	To	Description
102.00	**107.80**	V3B **Basalte** The contacts of this interval are diffuse and defined by the alteration. Dark fine grained basalt, there is about 2% MgO. There is pervasive chlorite alteration. There is patchy carbonatite with sharp and irregular fracturing forming ameboidal shapes. There is patchy amphibole alteration with needles forming within calcitic/ carbonatite zones. The is a weak patchy K-feldspar alteration giving the rock a pink hue. There is abundant brittle fracturing with a weak foliation defined by the alignment of micas and of disseminated carbonate. Pyrite is concentrated along the margins of the carbonatites.
102.00	107.80	CL; AM; CB; FK **Chloritisation; Amphibolitisation; Carbonatisation; Altération en feldspat** There is pervasive chlorite alteration. There us patchy carbonatite, with sharp and irregular fracturing forming ameboidal shapes. There is patchy amphibole alteration with needles forming within calcitic/ carbonatite zones. The is a weak patchy k-feldspar alteration giving the rock a pink hue.
102.00	107.80	PY0.5-1; MG01 **Pyrite 0.5-1; Magnétite 1%** Pyrite is concentrated along the margins of the carboonatite. Interval is strongly magnetic.
102.00	107.80	CS 35 **Cisaillé(e) 35°** Weak foliation defined by the alignment of chlorite and carbonate.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
102.00	103.00		A0102414	0.0120	Au-ICP21	VO20069221
103.00	104.00		A0102415	0.0240	Au-ICP21	VO20069221
104.00	105.00		A0102416	0.0330	Au-ICP21	VO20069221
105.00	106.00		A0102417	0.0170	Au-ICP21	VO20069221
106.00	106.90		A0102418	0.0110	Au-ICP21	VO20069221
106.90	107.80		A0102419	0.0150	Au-ICP21	VO20069221

From	To	Description

From	To	Len	SampleID	Au (ppm)	Method	Certificate

107.80 152.90 V3B; AM

Basalte; Amygdalaire

This contacts of this interval are diffuse and defined by the change in alteraion.

Fine to medium grained, green grey basalt. Patchy epidote and hematite stained K-feldspar (more of a brown colour). There are locations where it does potentially look like a garnet? There is beige patches as well indicating an increase in iron carbonate content. The is patches of calcite (these patches are not carbonatite, as a Ce of 200, not as enriched in REEs), these patches are irregular and ameboibal in shape, as well as infilling fractures. The alteration gives a pseudo brecciated texture.

There is an increase in pyrite mineralization towards the end of the interval, and this is where the structures becomes a little less chaotic, the pyrite is concentrated proximal to carbonate/ calcite vein.

From 126 m (M.S.):
Basalt, fine-grained, with localized small amygdules, may contain pillow rims. The matrix is dark grey green with frequent yellowish green epidotized patches which give the unit a mottled appearance. Epidote is often accompanied by honey brown to beige patches which may be composed of garnet. There are aslo reddish patches of Hem-stained K-feldspar (syenitic injections?). Calcite fills fractures, veins and irregular veinlets which contain fine grains of magnetite.
Magnetism: weak to moderate, locally strong.
Structure: weak to moderate fracturing with calcite and epidote infilling, locally brecciation with calcite or calcite-magnetite cementing veins. Slightly elevated REEs in Cal-Mgt veins.
Mineralization: traces to 1-2% Py, locally 3-4%, as fine disseminated grains, aggregates in fractures, in brown alteration patches. Very fine Py is present in Cal-Mgt veinlets. Traces Cpy.
The lower contact is distinct but not sharp, slightly obscured by brown-beige alteration.

140.15 140.40 I2

Intrusif intermédiaire 60°

An intermediate dyke (syenite?) with distinct contacts at 60CA. XRF shows elevated REEs, P, Ba.
Medium pinkish grey, uniform, non-deformed, medium-grained, equigranular with distinct feldspar grains and white to beige carbonate-altered. Non-magnetic.
Traces Cpy on a fractured surface near the lower contact.
XRF: SiO2=28%, Ca=9%, Al=8%, Fe=2.7%, REEs (Ce+La+/-Nd+Y)=0.6%, PO4=4300 ppm, Ba=2300 ppm, K=1050 ppm.

107.80	108.40	A0102420	0.0100	Au-ICP21	VO20069221
108.40	109.00	A0102421	0.0070	Au-ICP21	VO20069221
109.00	110.00	A0102422	0.0100	Au-ICP21	VO20069221
110.00	111.00	A0102423	0.0070	Au-ICP21	VO20069221
111.00	112.00	A0102424	0.0080	Au-ICP21	VO20069221
112.00	113.00	A0102426	0.0060	Au-ICP21	VO20089199
113.00	114.00	A0102427	0.0020	Au-ICP21	VO20089199
114.00	114.60	A0102428	0.0030	Au-ICP21	VO20089199
114.60	115.10	A0102429	0.0005	Au-ICP21	VO20089199
115.10	116.00	A0102430	0.0310	Au-ICP21	VO20089199
116.00	117.00	A0102431	0.0040	Au-ICP21	VO20089199
117.00	118.00	A0102432	0.0010	Au-ICP21	VO20089199
118.00	119.00	A0102433	0.0030	Au-ICP21	VO20089199
119.00	120.00	A0102434	0.0020	Au-ICP21	VO20089199
120.00	121.00	A0102435	0.0020	Au-ICP21	VO20089199
121.00	122.00	A0102436	0.0020	Au-ICP21	VO20089199
122.00	123.00	A0102437	0.0020	Au-ICP21	VO20089199
123.00	124.00	A0102438	0.0030	Au-ICP21	VO20089199
124.00	125.00	A0102439	0.0020	Au-ICP21	VO20089199
125.00	126.00	A0102441	0.0030	Au-ICP21	VO20089199
126.00	127.00	A0102442	0.0030	Au-ICP21	VO20089199
127.00	128.00	A0102443	0.0110	Au-ICP21	VO20089199
128.00	129.00	A0102444	0.0130	Au-ICP21	VO20089199
129.00	130.00	A0102445	0.0070	Au-ICP21	VO20089199
130.00	131.00	A0102446	0.0060	Au-ICP21	VO20089199
131.00	132.00	A0102447	0.0040	Au-ICP21	VO20089199
132.00	133.00	A0102448	0.0020	Au-ICP21	VO20089199
133.00	134.00	A0102449	0.0100	Au-ICP21	VO20089199
134.00	135.00	A0102450	0.0030	Au-ICP21	VO20089199
135.00	136.00	A0102451	0.0070	Au-ICP21	VO20089199
136.00	137.00	A0102452	0.0070	Au-ICP21	VO20089199
137.00	138.00	A0102453	0.0060	Au-ICP21	VO20089199
138.00	139.00	A0102454	0.0110	Au-ICP21	VO20089199
139.00	140.00	A0102455	0.0030	Au-ICP21	VO20089199
140.00	141.00	A0102457	0.0050	Au-ICP21	VO20089199
141.00	142.00	A0102458	0.0040	Au-ICP21	VO20089199
142.00	143.00	A0102459	0.0030	Au-ICP21	VO20089199
143.00	144.00	A0102460	0.0030	Au-ICP21	VO20089199

142.23	142.25	I2	144.00	145.00		A0102461	0.0050	Au-ICP21	VO20089199
		Intrusif intermédiaire 52°	145.00	146.00		A0102462	0.0090	Au-ICP21	VO20089199
		A 2.5-3 cm wide dykelet at 50-55CA, intermediate (syenitic?) composition, medium-grained, crosscutting beige alteration patches in the host basalt.	146.00	147.00		A0102463	0.0150	Au-ICP21	VO20089199
			147.00	148.00		A0102464	0.0190	Au-ICP21	VO20089199
107.80	148.10	EP; CC; HM; FK	148.00	149.00		A0102465	0.0370	Au-ICP21	VO20089199
		Épidotisation; Calcitisation; Hématisation; Altération en feldspath potassi	149.00	150.00		A0102466	0.0250	Au-ICP21	VO20089199
		Patchy epidote and hematite-stained K-feldspar (more of a brown colour) - epidote-altered patches from a few cm to 1-3 dm in size. There are locations where it does potentially look like a garnet (?) - honey	150.00	151.00		A0102467	0.0040	Au-ICP21	VO20089199
			151.00	152.00		A0102468	0.0100	Au-ICP21	VO20089199
			152.00	152.90		A0102469	0.0080	Au-ICP21	VO20089199

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
152.90	**156.50**	I2D	152.90	154.00		A0102470	0.0660	Au-ICP21	VO20089199
		Syénite 15°	154.00	155.00		A0102471	0.0170	Au-ICP21	VO20089199
		Silicified syenite, a dyke with distinct contacts. The rock is medium greyish mauve, greyish pink, uniform, massive, fine-grained to very fine-grained, locally porphyritic with distinct small Fsp/Plg phenocrysts. Paler, bleached parts look ghostly porphyritic. The rock is strongly silicified, hard to scratch. Pervasive hematite, moderate semi-pervasive carbonate (mildly fizzing to HCl test) in the matrix; specular hematite and white carbonate in fractures and in the matrix. Magnetism: weakly magnetic. Structure: weak fracturing. One set of fractures is oriented at 5-15CA and typically filled by specular hematite. Another set of hairline to mm fractures is at 65-75CA and crosscuts the low-angle fractures. Some parts are sheared with weakly-developed foliation at ~45CA marked by streaks of specular hematite. Mineralization: traces to 0.5-1% Py small disseminated grains, in some fractures, more common in bleached parts. The lower contact is rather distinct, undulating along the core axis at 0-15CA for about 1 m. Brittle-ductile deformation - sheared, brecciated. Shear fabrics along the contact contain specular hematite, beige alteration (sericite?), white calcite, and reddish K-spr/Hem altered patches or injections. Actinolite needles are seen in syenite on the contact.	155.00	156.00		A0102472	0.0290	Au-ICP21	VO20089199
			156.00	157.00		A0102474	0.0360	Au-ICP21	VO20089199
152.90	156.00	SI; HM; CC; AM							
		Silicification; Hématisation; Calcitisation; Amphibolitisation							
		Strong silicification. Moderate to strong pervasive and fracture-filling hematite (red, grey specular). Moderate semi-pervasive and fracture-filling carbonate/calcite. Weak magnetite.							

156.00	157.00	HM; CC; AM; FK; EP; CL	
		Hématisation; Calcitisation; Amphibolitisation; Altération en feldspath po	
		Parchy alteration on sheared contact between syenite and basalt. Specular Hem, beige sericite, minor epidote, reddish K-spr/Hem, white calcite/carbonate; dark green needles of actinolite. Patchy chlorite/amphibole in basalt matrix. Moderate magnetite.	
152.90	156.00	PY01	
		Pyrite 1%	
		Traces to 0.5-1% Py small disseminated grains, in some fractures, more common in bleached parts.	
156.00	157.00	PY01; CPtr	
		Pyrite 1%; Chalcopyrite tr	
		0.5-1% Py fine grains and fine-grained aggregates in sheared contact, fractures. Traces Cpy.	
152.90	156.00	FA; CS	45
		Fracturé(e); Cisaillé(e) 45°	
		Weak fracturing. There are two distinct sets of fractures: 1) one set of fractures is oriented at 5-15CA and typically filled by specular hematite; 2) another set of hairline to mm fractures is at 65-75CA and crosscuts the low-angle fractures. Some parts are sheared with weakly-developed foliation at ~45CA marked by streaks of specular hematite.	
156.00	157.00	CS; FA	5
		Cisaillé(e) 5°; Fracturé(e)	
		Sheared contact between syenite and basalt, undulating along the core axis at 0-15CA. Hairline to mm tension gashes filled by white calcite occur around the shear zone and are generally oriented at 45CA.	

From	To	Description
156.50	**162.10**	V3B; AM; CS
		Basalte 5°; Amygdalaire; Cisaillé
		Basalt, amygdaloidal, sheared. The rock has a fine-grained, dark grey-green to grey matrix (chlorite/amphibole altered) with fine epidotized Plg aggregates and localized small amygdules filled by Qz, Ep, Chl, Carb. It has a mottled appearance caused by numerous altered beige and brown patches (sericite?, garnet?), yellowish epidote, minor reddish Hem/K-spr and fractures filled by white calcite. Altered patches appear along the low-angle shear zone which undulates along the core axis at 0-15CA (continuation of the sheared upper contact). Magnetism: weak to moderate, in parts strong. Fine Mgt grains in calcite veins.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
157.00	158.00		A0102475	0.0140	Au-ICP21	VO20089199
158.00	159.00		A0102476	0.0450	Au-ICP21	VO20089199
159.00	160.00		A0102477	0.0060	Au-ICP21	VO20089199
160.00	161.00		A0102478	0.0170	Au-ICP21	VO20089199
161.00	162.10		A0102479	0.0160	Au-ICP21	VO20089199

Structure: shear fabrics are oriented at 0 to 15CA, calcite-filled tension gashes around the shear are at ~45CA.
Mineralization: traces to 0.5-1% Py fine grains, rarely coarse, disseminated and as fine-grained aggregates in altered patches along the shear. Traces Cpy.

The lower contact is distinct, at 45CA.

157.00 162.10 CC; EP; SR; HM; CL; AM

Calcitisation; Épidotisation; Séricitisation; Hématisation; Chloritisation; A

Beige and brown altered patches - sericite? garnet?; yellowish epidote patches,, minor reddish Hem/K-spr patches or syenitic injections. White calcite in fractures, purplish white Cal+Mgt veinlets.
The matrix is patchy to pervasively chloritized and amphibolized, saussuritized/epidotized Plg fine aggregates in the matrix.
Weak to moderate magnetite.

157.00 162.10 PY00.75; CPtr

Pyrite 0.75%; Chalcopyrite tr

Traces to 0.5-1% Py fine grains, rarely coarse cubic grains, disseminated and as fine-grained aggregates in altered patches along the shear. Locally traces Cpy.

157.00 162.10 CS; FA 5

Cisaillé(e) 5°; Fracturé(e)

Patchy sheared and fractured basalt (continuation of the sheared contact with syenite). Shear fabrics undulate along the core axis at 0-15CA. Microfractruring, tension gashes filled by Cal and Cal+Mgt. Locally, basalt is brecciated and cemented by Cal veins.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
162.10	**163.10**	I2D **Syénite 45°** Silicified syenite dyke with distinct contacts. It is similar to the dyke at 152.9-156.5 m but this one lacks potassium. The rock is medium greyish mauve, uniform, fine-grained to porphyritic with distinct small Fsp/Plg phenocrysts. Strongly siliceous, hard to scratch, weakly carbonatized, weakly magnetic. The colour is apparently caused by hematite (reddish and fine specular). Structure: massive, weakly fractured with white Carb and minor green Amph in fractures. In some parts the phenocrysts look aligned (sheared). Mineralization: traces to 1% Py fine grains, disseminated and in some fractures. XRF: SiO2=55%, Al2O3=8-9%, Ca traces to 1%, Fe=0.5-0.9%, no K.	162.10	163.10		A0102480	0.0340	Au-ICP21	VO20089199

The lower contact is rather distinct, undulating at 0 to 45CA. 1% coarse Py grains and green Amph needles on the contact.

162.10 163.10 SI; HM; CC; AM

Silicification; Hématisation; Calcitisation; Amphibolitisation

Strong silicification. Weak to moderate semi-pervasive hematite (red and specular). White carbonate/calcite in fractures and minor in the matrix. Green Amph (actinolite) in some fractures and on the contacts.
Weak magnetite.

162.10 163.10 PY00.5

Pyrite 0.5%

Traces to 1% Py fine grains, disseminated and in some fractures. Coarse Py grains on the lower contact.

162.10 163.10 FA; CS

Fracturé(e); Cisaillé(e)

Weak fracturing and weak shearing. Locally slightly aligned Plg phenocrysts.

From	To	Description
163.10	**167.05**	V3B; AM **Basalte 45°; Amygdalaire** Basalt, weakly amygdaloidal. Fine-grained, dark grey-green matrix with small yellowish, epidotized/saussuritized Plg specks, grains, fine aggregates. Occasional small amygdules filled by Qz, Ep, Carb. Moderate patchy brown to beige alteration (garnet?), yellowish epidote patchy and in fractures, calcite patchy and in fractures. Magnetism: weak to moderate, in parts strong. Structure: moderate fracturing with epidote+/-calcite infilling at various angles (0 to 45CA), locally hairline to mm tension gashes filled by calcite. Occasional purplish white Cal+Mgt veins which crosscut epidote fractures. Mineralization: traces to 0.5-1% Py fine diss grains, in brown patches and in Cal-Mgt veins. Traces Cpy. The lower contact is distinct, at 60CA.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
163.10	164.00		A0102481	0.0090	Au-ICP21	VO20089199
164.00	165.00		A0102482	0.0040	Au-ICP21	VO20089199
165.00	166.00		A0102483	0.0020	Au-ICP21	VO20089199
166.00	167.05		A0102484	0.0020	Au-ICP21	VO20089199

163.10 167.05 EP; CC; CC

Épidotisation; Calcitisation; Calcitisation

The matrix is patchy to pervasively chloritized and amphibolized with saussuritized/epidotized Plg fine grains and aggregates. Moderate patchy

brown to beige alteration (garnet?). Patchy calcite in the matrix and brown patches. Calcite and epidote in fractures, calcite-filled tension gashes. Weak to moderate magnetite.

163.10 167.05 PY00.5; CPtr

Pyrite 0.5%; Chalcopyrite tr

Traces to 0.5-1% Py fine diss grains, in brown patches and Cal-Mgt veins. Traces Cpy.

163.10 167.05 FA

Fracturé(e)

Moderate fracturing with epidote+/-calcite infilling at various angles (0 to 45CA), locally hairline to mm tension gashes filled by calcite. Occasional purplish white Cal+Mgt veins which crosscut epidote fractures.

From	To	Description
167.05	**179.40**	I2D **Syénite 60°** Silicified Syenite, sheared. The flanks of this interval have a usual appearance of syenite (pink, mauve, beige, med-grained to porphyritic), whereas the upper to middle section is greenish grey, sheared. The changes between these differently altered sections are gradational. XRF analyses of different parts show similar composition: SiO2=50-55%, Al2O3=6-7%. K=2-3%, Fe=0.6-0.9%, Ca=0.4-1.8%, Ti=0.3%, no REEs, no Mg. 167.05-167.9 m - medium grey to mauve-grey with buff-beige patches (possibly sericitized Fsp aggregates). The groundmass is strongly siliceous/silicified, looks almost aphanitic. There are discernible small phenocrysts of Fsp/Plg with blurry contours. The interval is weakly magnetic, moderately fractured at 55-60CA. Weak patchy hematite (red and specular). Weak carbonate in fractures and specks in the matrix. Rare traces of fine Py. 167.9-175.25 m - medium to pale greenish grey rock with pinkish beige patches. The matrix is fine-grained with occasional phantom phenocrysts. The greenish shades may be attributed to sericite alteration. White anhedral crystals are seen in the matrix - secondary Plg? Weak carbonate specks in the matrix, locally very weak patchy red hematite. The rock is strongly siliceous/silicified, non-magnetic. The middle portion of this interval is strongly sheared, foliated at 15-25CA. The intensity of foliation decreases on both flanks with angles steepening to 40-45CA. Rare traces of fine Py. 175.25-179.40 m - pale pink-beige to medium grey-mauve with localized beige patches (possibly sericitized Plg aggregates). The matrix is strongly

From	To	Len	SampleID	Au (ppm)	Method	Certificate
167.05	168.00		A0102485	0.0010	Au-ICP21	VO20089199
168.00	169.00		A0102486	0.0005	Au-ICP21	VO20089199
169.00	170.00		A0102487	0.0005	Au-ICP21	VO20089199
170.00	171.00		A0102489	0.0005	Au-ICP21	VO20089199
171.00	172.00		A0102490	0.0010	Au-ICP21	VO20089199
172.00	173.00		A0102491	0.0005	Au-ICP21	VO20089199
173.00	174.00		A0102492	0.0005	Au-ICP21	VO20089199
174.00	175.00		A0102493	0.0010	Au-ICP21	VO20089199
175.00	176.00		A0102494	0.0005	Au-ICP21	VO20089199
176.00	177.00		A0102495	0.0140	Au-ICP21	VO20089199
177.00	178.00		A0102496	0.0050	Au-ICP21	VO20089199
178.00	178.70		A0102497	0.0270	Au-ICP21	VO20089199
178.70	179.40		A0102498	0.0500	Au-ICP21	VO20089199

siliceous/silicified, with ghostly to well-discernible small pink and white Fsp phenocrysts. Moderate to weak red and specular Hem in the matrix, weak to moderate carbonate (specks and in fractures). Weak patchy magnetism. Locally minor leucoxene and minor greenish patches (Chl or Act?). Weak fracturing at 10-15CA with Hem and Carb infilling. Rare traces Py.

The lower contact is distinct, at 35CA. Dissolution cavities on the contact, small green Act needles in syenite. Traces to 0.5% Py+Cpy on the contact.

167.05	167.90	SI; SR; HM	
		Silicification; Séricitisation; Hématisation	
		Strong pervasive silicification. Weak red and specular Hem in the matrix and some fractures. Weak carbonate in fractures. Notable buff-beige patches which may consist of altered Plg aggregates - seicitized?? Beige alteration also spreads along the fractures. Weak magnetism.	
167.90	175.25	SI; SR; AB	
		Silicification; Séricitisation; Albitisation	
		Moderate to strong pervasive silicification. White anhedral grains/specks in the matrix - possibly secondary Plg (albitization). Rare patches of reddish hematite. Weak carbonate in the matrix, fractures.	
175.25	179.40	SI; HM; CB; SR	
		Silicification; Hématisation; Carbonatisation; Séricitisation	
		Moderate to strong pervasive silicification. Moderate to weak red and specular Hem in the matrix, weak to moderate carbonate (specks and in fractures). Weak patchy magnetism. Locally minor leucoxene and minor greenish patches (Chl or Act?). Actinolite needles on the contact syenite/basalt.	
167.05	179.40	PYtr	
		Pyrite tr	
		Rare traces Py.	
167.05	167.90	FA	60
		Fracturé(e) 60°	
		Moderate fracturing at 55-60CA.	
167.90	170.00	FA; CS	40
		Fracturé(e); Cisaillé(e) 40°	
		Weak fracturing, gradually increasing intensity of shearing with shear angles decreasing from 60 to 35CA.	

170.00	173.00	CS; FA	20
		Cisaillé(e) 20°; Fracturé(e)	
		Sheared interval with weakly to moderately-developed foliation. The angles gradually decrease from 35 to 15CA towards the middle of this interval, then increase to 40CA. Foliation is crosscut by hairline fractures oriented at 5-20CA in ooposite direction.	
173.00	175.25	CS	40
		Cisaillé(e) 40°	
		Decreasing intensity of shearing, foliation angles are 40-45CA.	
175.25	179.40	FA	15
		Fracturé(e) 15°	
		Weak fracturing at 10-15CA with Hem and Carb infilling	

From	To	Description
179.40	**214.00**	V3B
		Basalte 35°
		Basalt, possibly pillowed. The interval has a very mottled, chaotic appearance due to numerous altered patches and veins. The matrix is fine-grained, dark grey-green, chloritized and amphibolized, with saussuritized/epidotized fine aggregates of Plg. Moderate to strong patchy and fracture-filling epidote alteration, often associated with brown to beige patchy alteration (garnet?). Weak to moderate patchy carbonate/calcite in brown and epidote patches, in fractures. Magnetism: moderate, locally strong. Fine Mgt grains occur in Cal veins. Structure: moderate to strong fracturing, locally tension gashes at 30-35CA. Numerous irregular Cal+Mgt veins (5-7%, cm-dm wide) crosscut epidote patches and contain brecciated fragments of the host rock. Mineralization: traces to 1-2% Py fine disseminated grains, fine-grained aggregates in some veins and fractures, in some brown-beige patches. Locally traces Cpy. At 199.7-200.5 m - silicified syenite / Qz-syenite dyke with distinct contacts at 35-40CA. Near the lower contact, from ~213 m, epidote alteration disappears. The lower contact is somewhat distinct, sheared at 45CA. Irregular calcite veins are visibly stopped, wrapped up on the contact.
199.70	200.50	I2C
		Syénite quartzifère 37°
		Silicified syenite dyke with distinct contacts at 37CA. Pale pink-beige, medium-grained with distinct pink-white Fsp grains

From	To	Len	SampleID	Au (ppm)	Method	Certificate
179.40	180.00		A0102499	0.0170	Au-ICP21	VO20089199
180.00	181.00		A0102500	0.0030	Au-ICP21	VO20089199
181.00	182.00		A0103601	0.0860	Au-ICP21	VO20089349
182.00	183.00		A0103602	0.0490	Au-ICP21	VO20089349
183.00	184.00		A0103603	**0.1000**	Au-ICP21	VO20089349
184.00	185.00		A0103604	0.0450	Au-ICP21	VO20089349
185.00	186.00		A0103605	0.0360	Au-ICP21	VO20089349
186.00	187.00		A0103606	0.0820	Au-ICP21	VO20089349
187.00	188.00		A0103607	0.0710	Au-ICP21	VO20089349
188.00	189.00		A0103609	0.0090	Au-ICP21	VO20089349
189.00	190.00		A0103610	0.0070	Au-ICP21	VO20089349
190.00	191.00		A0103611	0.0030	Au-ICP21	VO20089349
191.00	192.00		A0103612	0.0080	Au-ICP21	VO20089349
192.00	193.00		A0103613	0.0260	Au-ICP21	VO20089349
193.00	194.00		A0103614	0.0040	Au-ICP21	VO20089349
194.00	195.00		A0103615	0.0200	Au-ICP21	VO20089349
195.00	196.00		A0103616	0.0390	Au-ICP21	VO20089349
196.00	197.00		A0103617	0.0060	Au-ICP21	VO20089349
197.00	198.00		A0103618	0.0080	Au-ICP21	VO20089349
198.00	199.00		A0103619	**0.1430**	Au-ICP21	VO20089349
199.00	199.70		A0103620	0.0730	Au-ICP21	VO20089349
199.70	200.50		A0103621	**0.1610**	Au-ICP21	VO20089349
200.50	201.00		A0103622	0.0740	Au-ICP21	VO20089349
201.00	202.00		A0103623	0.0070	Au-ICP21	VO20089349

From	To	Description
		surrounded by beige, carbonatized groundmass, non-magnetic. Weak patchy hematite. Weakly fractured. Mineralization: rare traces Py. Numerous small dissolution cavities on the lower contact.
179.40	199.70	EP; CC; CL; AM **Épidotisation; Calcitisation; Chloritisation; Amphibolitisation** The matrix is patchy to pervasively chloritized and amphibolized with saussuritized/epidotized Plg fine aggregates. Moderate to strong yellowish green epidote alteration in fractures and patchy. Weak to moderate patchy brown to beige alteration (garnet?), often associated with epidote. White calcite in fractures, purplish white Cal+Mgt veinlets.
214.00	**214.85**	I3; V3B; I4Q; CS **Intrusif mafique 45°; Basalte; Carbonatite; Cisaillé** Strongly metasomatized and sheared mafic rock, Lamprophyre (?), Basalt (?). The interval is medium grey to pinkish beige, without sharp changes between variably colored parts. Fine-grained, pervasively carbonatized matrix contains 5-7% dark green, prismatic to acicular Amph phenocrysts. Minor fine biotite in the upper portion of the interval. Elevated REEs in the matrix. Magnetism: moderately to strongly magnetic, weaker magnetism in pink-beige parts. Structure: sheared with moderately-developed foliation at 35 to 45CA. Amph phenocrysts are randomly oriented, not aligned with the foliation. Mineralizatioin: 5-7% fine Py disseminated grains and fine-grained aggregates throughout the interval, 10-15% Py on the lower contact. The lower contact is distinct, at 20CA.
214.00	214.85	CB; AM; BO; SI **Carbonatisation; Amphibolitisation; Biotitisation; Silicification** Strong pervasive carbonatization with elevated REEs, green prismatic phenocrysts of secondary Amph (Px?). MInor biotite in the matrix at the beginning of the interval.
214.00	214.85	PY07 **Pyrite 7%** 5-7% fine Py disseminated grains and fine-grained aggregates throughout the interval, 10-15% Py on the lower contact.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
202.00	203.00		A0103624	0.0040	Au-ICP21	VO20089349
203.00	204.00		A0103626	0.0060	Au-ICP21	VO20089349
204.00	205.00		A0103627	0.0410	Au-ICP21	VO20089349
205.00	206.00		A0103628	0.0910	Au-ICP21	VO20089349
206.00	207.00		A0103629	**0.1080**	Au-ICP21	VO20089349
207.00	208.00		A0103630	0.0760	Au-ICP21	VO20089349
208.00	209.00		A0103631	**0.1580**	Au-ICP21	VO20089349
209.00	210.00		A0103632	0.0340	Au-ICP21	VO20089349
210.00	211.00		A0103633	0.0510	Au-ICP21	VO20089349
211.00	212.00		A0103634	**0.1050**	Au-ICP21	VO20089349
212.00	213.00		A0103635	0.0060	Au-ICP21	VO20089349
213.00	214.00		A0103636	0.0590	Au-ICP21	VO20089349
214.00	215.00		A0103637	**0.3150**	Au-ICP21	VO20089349

214.00 214.85 CS 40

Cisaillé(e) 40°

A sheared interval with moderately-developed foliation at 35 to 45CA.

From	To	Description
214.85	**215.70**	I2D

Syénite 20°

Syenite dyke with distinct contacts at 20CA (upper) and 45CA (lower).
Medium red-grey, medium-grained, massive, pervasively carbonatized, hematitized and silicified. XRF shows SiO2=54%, K=3%, Ca=4%, no REEs.
Magnetism: non-magnetic.
Structure: the upper 10-15 cm portion of the dyke is brecciated, patchy bleached and carbonatized (calcite, carbonate, slightly elevated REEs).
Weak to moderate fracturing with greyish carbonate filling irregular, variably oriented fractures. There are 3-5% greyish silica irregular veinlets without sharp margins, generally oriented at 20-45CA. Several late fractures crosscut Qz veinlets at 15-20CA; these fractures are filled by white calcite and dark green chlorite and have slickenside striations on fracture surfaces.
Mineralization: the upper, brecciated portion is mineralized by 10-15% Py; the rest of the dyke is mineralized by 2-4% fine disseminated Py.

The lower contact is distinct, sharp, at 45CA.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
215.00	215.70		A0103638	0.0290	Au-ICP21	VO20089349

214.85 215.70 CB; HM; SI

Carbonatisation; Hématisation; Silicification

Moderate to strong pervasive carbonatization, hematitization and silicification. Grey carbonate in fractures, calcite and chlorite in late fractures. Grey silica veinlets.

214.85 215.00 PY12

Pyrite 12%

10-15% Py in brecciated and carbonatized syenite on the upper contact.

215.00 215.70 PY03

Pyrite 3%

2-4% fine disseminated Py

214.85 215.00 BX

Bréchique

Brecciated syenite on the upper contact with altered basalt.

215.00 215.70 FA

Fracturé(e)

Weak to moderate fracturing with greyish carbonate filling irregular, variably oriented fractures. There are 3-5% greyish silica irregular veinlets without sharp margins, generally oriented at 20-45CA. Several late fractures crosscut Qz veinlets at 15-20CA; these fractures are filled by white calcite and dark green chlorite and have slickenside striations on fracture surfaces.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
215.70	**216.40**	V3B (I2D) **Basalte avec 5 à 25% de syénite 45°** Metasomatized and sheared Basalt with 10-15% syenite injections and fenitized patches. The rock looks mottled, dark grey with reddish patches, strongly carbonatized, patchy magnetic (weak to strong), fine to medium-grained. Red syenitic patches have fuzzy contours, irregular-shaped, often occur along the fractures. XRF (syenite, red matrix): SiO2=55%, Al2O3=7%, Ca=2.6%, K=2%, Fe=0.7%, REEs=400ppm. XRF (basalt, dark grey matrix): SiO2=26%, Al2O3=8%, Ca=8%, K=0.6%, Fe=5%, no REEs. Structure: moderately fractured, in parts looks brecciated. Late brittle fractures filled by white calcite and dark green chlorite crosscut older fractures at 25-40CA, often with mm offsets.. Mineralization: 3-7% Py fine disseminated cubic grains. The lower contact is somewhat distinct, marked by a 2-3 cm wide pink carbonate/carbonatite vein at 50CA.	215.70	216.40		A0103639	**0.3280**	Au-ICP21	VO20089349

215.70 216.40 CB; FK; HM; SI

Carbonatisation; Altération en feldspath potassique; Hématisation; Silicifi

Strong pervasive carbonatization. Moderate patchy silicifcation, K-spr/Hem alteration/fenitization. Patchy magnetism (weak to strong).
Calcite and chlorite in late fractures.

215.70 216.40 PY05

Pyrite 5%

3-7% Py fine disseminated cubic grains.

215.70 216.40 FA

Fracturé(e)

Moderately fractured interval, in parts looks brecciated. Late brittle

fractures filled by white calcite and dark green chlorite crosscut older fractures at 25-40CA, often with mm offsets.

From	To	Description
216.40	**226.65**	I2D; V3B; CS **Syénite 50°; Basalte; Cisaillé** Mineralized zone in porphyritic syenite. 216.4-216.8 m - syenite mixed with ~25-35% basalt, strongly carbonatized, deformed, fractured, brecciated, with 10-15% pinkish white calcite fragmented veins. Mostly non-magnetic except a few weakly-magnetic spots. Mineralized by 10-20% Py fine grains and aggregates. 216.8-218.5 m - syenite, fine to medium-grained, massive, strongly altered, pervasively carbonatized, bleached, pale to medium grey to pinkish grey with mm to a few cm red "islands" of syenite. Non-magnetic, hard to scratch. Late brittle fractures filled by calcite and dark green chlorite crosscut the rock at 25 to 50CA. The interval is mineralized by 7-12% fine disseminated Py. Locally traces Cpy. 218.5-226.4 m - syenite, medium-grained to porphyritic (pink Fsp phenocrysts with fuzzy contours), medium pink-grey with red and pink less bleached intervals. Strong pervasive carbonatization (Fe-carbonate, moderately fizzing to HCl). Strongly microfractured, microbrecciated with carbonate infilling. Frequent greyish silica veins and silica-flooded zones, a few cm to a few dm long (XRF shows elevated Mo (350ppm) in grey zones). Locally weak beige patchy alteration (sericite?). Non-magnetic. Late fractures filled by dark green chlorite crosscut the rock at 15-35CA; some fractures undulate along the core axis at 0-15CA. Mineralization: 3 to 10% Py fine to med-size disseminated subhedral to euhedral grains and aggregates in some fractures. 226.4-226.65 m - dark beige-grey, sheared and strongly fractured syenite with digested mafic material, weakly foliated at 45-55CA. Pervasively carbonatized (calcite), patchy silicified. Mineralized by 7-15% Py. The lower contact is rather distinct, at 50CA.
216.40	216.80	CB; FK; HM; SI **Carbonatisation; Altération en feldspath potassique; Hématisation; Silicifi** Strong pervasive carbonatization (calcite, Fe-carbonate), mod-str patchy silicifcation, K-spr/Hem atleration, possibly albitization.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
216.40	217.00		A0103641	**0.5600**	Au-ICP21	VO20089349
217.00	218.00		A0103642	**0.1890**	Au-ICP21	VO20089349
218.00	219.00		A0103643	**0.1010**	Au-ICP21	VO20089349
219.00	220.00		A0103644	0.0570	Au-ICP21	VO20089349
220.00	221.00		A0103645	0.0330	Au-ICP21	VO20089349
221.00	222.00		A0103646	0.0190	Au-ICP21	VO20089349
222.00	223.00		A0103647	0.0200	Au-ICP21	VO20089349
223.00	224.00		A0103648	0.0250	Au-ICP21	VO20089349
224.00	225.00		A0103649	0.0360	Au-ICP21	VO20089349
225.00	226.00		A0103650	0.0360	Au-ICP21	VO20089349
226.00	226.65		A0103651	0.0840	Au-ICP21	VO20089349

216.80 218.50 CB; FK; HM; SI; CL

Carbonatisation; Altération en feldspath potassique; Hématisation; Silicifi

Strong pervasive carbonatization (Fe-carbonate), mod-str patchy silicifcation, K-spr/Hem atleration. White calcite and dark green chlorite in late fractures. Locally patchy chlorite - probably a digested fragment of basalt.
Non-magnetic.

218.50 226.40 CB; FK; HM; SI

Carbonatisation; Altération en feldspath potassique; Hématisation; Silicifi

Strong pervasive carbonatization (Fe-carbonate). Mod-str patchy silicification, grey silica-flooded zones. Weak to moderate pink K-spr/Hem (possibly secondary K-alteration).
Dark green chlorite and white to pink calcite in late fractures.
Locally weak beige patchy alteration (sericite?). Non-magnetic.

226.40 226.65 CC; SI; CL

Calcitisation; Silicification; Chloritisation

Pervasively carbonatized (calcite) syenite with digested mafic material (near the lower contact with basalt), moderate patchy silicification, weak to moderate chloritization.
Beige speckled and patchy alteration - sericite?
Non-magnetic.

216.40 216.80 PY15

Pyrite 15%

10-20% Py fine grains and aggregates throughout the interval.

216.80 218.50 PY10; CPtr

Pyrite 10%; Chalcopyrite tr

7-12% Py fine disseminated grains throughout the interval, locally traces Cpy.

218.50 226.40 PY07

Pyrite 7%

3 to 10% Py fine to med-size disseminated subhedral to euhedral grains and aggregates in some fractures.

226.40 226.65 PY10

Pyrite 10%

7-15% Py fine to med-size subhedral grains and aggregates.

216.40 216.80 FA; BX

Fracturé(e); Bréchique

Strongly deformed, fractured and brecciated interval.

216.80	218.50	FA	35
		Fracturé(e) 35°	
		Late brittle fractures filled by calcite and dark green chlorite crosscut the rock at 25 to 50CA.	
218.50	226.40	FA	
		Fracturé(e)	
		Strongly microfractured, microbrecciated syenite with carbonate infilling. Late fractures filled by dark green chlorite crosscut the rock at 15-35CA; some fractures undulate along the core axis at 0-15CA.	
226.40	226.65	FA; CS	50
		Fracturé(e); Cisaillé(e) 50°	
		Strongly fractured and sheared interval with weakly-developed foliation at 45-55CA.	

From	To	Description
226.65	**228.95**	V3B; V3F
		Basalte 50°; Basalte hyper-magnésien
		Basalt to Mg-rich Basalt, strongly fractured. Dark greenish grey, fine-grained matrix, pervasively chloritized/amphibolized, massive, strongly fractured with abundant, crisscrossing, hairline to mm fractures filled by epidote and calcite. Strongly magnetic. Locally fine disseminated leucoxene. Weak patchy fenitization along some fractures (biotite, K-spr/Hem). At 228.1-228.2 m - REE-rich syenitic injections mineralized by 0.5-2% Py. 226.65-227.3 m - a sheared interval with 5-10% white calcite veinlets (boudinaged, fragmented, oriented at 0 to 30CA), patchy fenitization (biotite), 2-5% Py fine grains and aggregates in sheared basalt, traces to 0.25% Cpy in calcite veinlets. 227.3-228.95 m - 0.5 to 1-2% Py and posssibly pyrrhotine fine disseminated anhedral to subhedral grains, fine-grained aggregates; traces Cpy in late calcite veinlets. XRF: SiO2=30%, Al2O3=10%, Fe=6-7%, Ca=5%, Mg=5%. The lower contact is marked at the begining of a shear zone.
228.10	228.20	I2D
		Syénite 60°
		A decimetric zone in basalt with dark red syenitic injections. The zone has somewhat distinct sheared contacts at ~60CA. XRF shows strong enrichment in REEs (1% Ce+La+Pr). Strongly fractured, strongly magnetic, strongly carbonatized (calcite),

From	To	Len	SampleID	Au (ppm)	Method	Certificate
226.65	227.30		A0103652	**0.2240**	Au-ICP21	VO20089349
227.30	228.00		A0103653	0.0350	Au-ICP21	VO20089349
228.00	229.00		A0103654	0.0550	Au-ICP21	VO20089349

patchy chloritized, with epidote in fractures and fine disseminated leucoxene.
Mineralization: 0.5 to 2% Py fine disseminated subhedral to euhedral grains and fine-grained aggregates in fractures; traces Cpy.

227.30 228.95 CL; AM; MG; CC; EP; FK

Chloritisation; Amphibolitisation; Magnétite; Calcitisation; Épidotisation;

Strong pervasive chloritization/amphibolization of the matrix, epidote and calcite filling fractures.
Locally fine disseminated leucoxene.
Weak patchy fenitization along some fractures (biotite, K-spr/Hem).
Strong magnetism.

226.65 227.30 PY03; CPtr

Pyrite 3%; Chalcopyrite tr

2-5% Py fine grains and aggregates in sheared basalt, traces to 0.25% Cpy in calcite veinlets.

227.30 228.95 PY01.5; CPtr

Pyrite 1.5%; Chalcopyrite tr

0.5 to 1-2% Py and possibly pyrrhotine as fine disseminated anhedral to subhedral grains and fine-grained aggregates; traces Cpy in late calcite veinlets.

226.65 227.30 FA; CS 20

Fracturé(e) 20°; Cisaillé(e)

A fractured, sheared interval with 5-10% white calcite veinlets, mm-cm wide, boudinaged, fragmented, oriented at 0 to 30CA.

227.30 228.95 FA

Fracturé(e)

Strongly fractured interval with abundant, crisscrossing, hairline to mm fractures filled by epidote and calcite.

From	To	Description
228.95	**231.40**	V3B; V3F; CS
		Basalte 40°; Basalte hyper-magnésien; Cisaillé
		Sheared Basalt to Mg-Basalt. Medium to dark grey with localized reddish brown fenitized patches (K-spr/Hem, biotite), pervasively chloritized/amphibolized, patchy carbonatized (Fe-carbonate, calcite), fine to medium-grained. Magnetism: very strong due to the presence of Mgt in the matrix and as very fine-grained, fracture-filling aggregates and streaks oriented parallel to the foliation. Structure: moderately to strongly sheared and fractured. The foliation is well-

From	To	Len	SampleID	Au (ppm)	Method	Certificate
229.00	230.00		A0103655	0.0590	Au-ICP21	VO20089349
230.00	230.70		A0103657	0.0150	Au-ICP21	VO20089349
230.70	231.40		A0103658	0.0190	Au-ICP21	VO20089349

developed at 40CA in the upper portion. The lower portion, 229.8-231 m, is sheared and cut by 5-7% white calcite veinlets at 5 to 30CA. Calcite-filled fractures and mm-cm veinlets are irregular, fragmented, undulating, folded. They often have dark bluish grey fibrous fine halos (glaucophane-riebeckite?) and some veinlets contain actinolite needles. Locally, shear fabrics are offset by calcite-filled fractures at 45-50CA.
Mineralization: 0.5 to 2% Py fine-grained aggregates, disseminated anhedral to subhedral grains, 0.5-2% Cpy fine-grained aggregates associated with calcite veining.

The lower contact is marked at the end of shearing and the beginning of epidote alteration.

229.30 229.35 I2D

Syénite 36°

Syenite injection with sheared contacts at 36CA, medium greyish red, fractured, invaded by white calcite with green actinolite needles. Mineralized by 3% Cpy+Py.

228.95 231.40 CC; AM; MG; MG; FK; BO

Calcitisation; Amphibolitisation; Magnétite; Magnétite; Altération en feld

Pervasive to patchy chloritization/amphibolization and patchy carbonatization (Fe-carbonate, calcite) of the matrix. Weak to moderate patchy fenitization (K-spr/Hem, biotite).
White calcite veinlets/fractures with dark bluish grey, fibrous alteration halos (glaucophane-riebeckite?); some veinlets contain green actinolite needles.
Fine-grained aggregates of Mgt in fractures, streaks, stripes parallel to the foliation.

228.95 231.40 CP00.75; PY00.75

Chalcopyrite 0.75%; Pyrite 0.75%

0.5 to 2% Py fine-grained aggregates, disseminated anhedral to subhedral grains, traces to 2% Cpy fine-grained aggregates associated with calcite veining.
At 228.95-229.15 m - mm-cm bands oriented parallel to the foliation which are mineralized by very fine pyrite.

228.95 229.80 CS 40

Cisaillé(e) 40°

Sheared basalt with well-developed foliation at 35-40CA. Strongly magnetic mm streaks and mm-cm stripes, white calcite veinlets, mineralized fenitized bands and syenitic injections occur parallel to the foliation. Calcite veinlets often appear boudinaged.

229.80 231.40 CS; FA 15

Cisaillé(e) 15°; Fracturé(e)

Strongly sheared and fractured basalt with fractures and intermittent foliation developed mainly at 15-20CA. The interval is cut by 5-7% white calcite mm-cm veinlets with dark bluish grey fibrous halos (glaucophane-riebeckite?). Veinlets are irregular, fragmented, undulating, folded. Some veinlets contain actinolite needles.

At 230.6 m - shear bands oriented at 0-10CA are offset by a fracture at 50CA.

From	To	Description
231.40	**240.70**	V3B

Basalte

Basalt, patchy epidotized.
Fine-grained matrix, dark green-grey, pervasively chloritized/amphibolized, with small laths and aggregates of saussuritized/epidotized Plg. Moderate to strong patchy and fracture-filling epidotization and weak to moderate, beige to brown patchy alteration (garnet?). Weak to moderate calcite in beige patches and in fractures. Weak reddish Hem alteration along some fractures.
Magnetism: strongly magnetic in the upper parts and non-magnetic in the lower. Fine Mgt grains are present in calcite veins.
Structure: numerous hairline to mm fractures filled by epidote, variably oriented. 1-3% irregular, purplish white Cal+Mgt veins, a few mm to several cm wide.
Mineralization: traces to 0.5-1% Py fine disseminated grains and fine-grained aggregates. Traces Cpy.

The lower contact is somewhat distinct, irregular; epidote alteration stops.

231.40 240.70 EP; CC; CL; AM; HM

Épidotisation; Calcitisation; Chloritisation; Amphibolitisation; Hématisatio

Moderate to strong pervasive chloritization/amphibolization of the matrix. Moderate to strong patchy and fracture-filling epidotization and weak to moderate, beige to brown patchy alteration (garnet?). Saussuritization(epidotization) of Plg groundmass. Weak to moderate calcite in beige patches and in fractures. Weak reddish Hem alteration along some fractures. Cal+Mgt veins.

231.40 234.40 PY00.75; CPtr

Pyrite 0.75%; Chalcopyrite tr

Traces to 0.5-2% Py fine disseminated grains and fine-grained aggregates. Traces Cpy.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
231.40	232.00		A0103659	0.0030	Au-ICP21	VO20089349
232.00	233.00		A0103660	0.0140	Au-ICP21	VO20089349
233.00	234.00		A0103661	0.0050	Au-ICP21	VO20089349
234.00	235.00		A0103662	0.0140	Au-ICP21	VO20089349
235.00	236.00		A0103663	0.0180	Au-ICP21	VO20089349
236.00	237.00		A0103664	0.0270	Au-ICP21	VO20089349
237.00	238.00		A0103665	0.0260	Au-ICP21	VO20089349
238.00	239.00		A0103666	0.0970	Au-ICP21	VO20089349
239.00	240.00		A0103667	0.0400	Au-ICP21	VO20089349
240.00	241.00		A0103668	0.0540	Au-ICP21	VO20089349

234.40 240.70 PY00.25

Pyrite 0.25%

Traces to 0.5% Py.

231.40 240.70 FA

Fracturé(e)

Moderate to strong irregular fracturing with epidote and minor calcite infilling. 1-3% irregular, purplish white Cal+Mgt veins, a few mm to several cm wide.
Occasional late fractures filled by white calcite with reddish hematite stains crosscut epidote-filled fractures, sometimes with mm displacements. Late fractures often run at very low core angles (0-5CA).

From	To	Description
240.70	**245.00**	S; V3B **Sédiments non divisé; Basalte** Exhalative Sediments (?) Aphanitic basalt (?) Medium to dark grey, fine-grained to aphanitic (quenched?), microfractured but overall less deformed than the neigbouring unit. Irregular microfractures are filled by green chlorite/amphibole and minor calcite. Late fractures are straight, en-echelon, oriented at 50-65CA, hairline to a few mm wide, and filled by calcite, quartz and minor chlorite. Non-magnetic, non-carbonaceous or carbonatized, hard to scratch, silica content is relatively high XRF: SiO2=38-46%, Al2O3=11%, K=3%, Fe=3-4%, Ca=0.2%, Ba=0.2%, Mg is mostly absent. Mineralization: traces to 0.5-1% Py small to med-size, anhedral to subhedral grains disseminated in the matrix, less common in fractures. The lower contact is somewhat distinct, bleached over 10 cm. Distinct textural and compositional changes.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
241.00	242.00		A0103669	0.0210	Au-ICP21	VO20089349
242.00	243.00		A0103670	0.0030	Au-ICP21	VO20089349
243.00	244.00		A0103671	0.0040	Au-ICP21	VO20089349
244.00	245.00		A0103672	0.0070	Au-ICP21	VO20089349

240.70 245.00 CL; AM; CC

Chloritisation; Amphibolitisation; Calcitisation

Chloritized/amphobolized matrix; chlorite/amphibole and calcite in microfractures; calcite, quarz and minor chlorite in late fractures.

240.70 245.00 PY00.5

Pyrite 0.5%

Traces to 0.5-1% Py small to med-size, anhedral to subhedral grains disseminated in the matrix, less common in fractures.

240.70 245.00 FA 55

Fracturé(e) 55°

Weak fracturing. The matrix is microfractured with chlorite, amphibole and calcite infilling. Late fractures are straight, en-echelon, oriented at 50-65CA, hairline to a few mm wide, and filled by calcite, quartz and minor chlorite.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
245.00	**249.50**	V3B **Basalte** Basalt, patchy epidotized. Fine-grained matrix, dark green-grey, massive, pervasively chloritized/amphibolized, with fine aggregates of saussuritized/epidotized Plg. Numerous crisscrossing fractures, hairline to mm, filled by epidote and calcite; variably oriented, generally at angles ranging from 30 to 60CA. Occasional flat fractures at 0-10CA, also filled by epidote and calcite. Non-magnetic. Mineralization: minor Py as fine-grained aggregates in some fractures; overall traces. The lower contact is somewhat distinct, irregular, quenched.	245.00	246.00		A0103674	0.0150	Au-ICP21	VO20089349
			246.00	247.00		A0103675	0.0060	Au-ICP21	VO20089349
			247.00	248.00		A0103676	0.0240	Au-ICP21	VO20089349
			248.00	249.00		A0103677	0.0130	Au-ICP21	VO20089349
			249.00	249.50		A0103678	0.0280	Au-ICP21	VO20089349
245.00	249.50	EP; CL; AM; CC **Épidotisation; Chloritisation; Amphibolitisation; Calcitisation** Pervasively chloritized/amphibolized matrix with fine aggregates of saussuritized/epidotized Plg. Epidote and calcite in numerous fractures.							
245.00	249.50	PYtr **Pyrite tr** Minor Py as fine-grained aggregates in some fractures; overall traces.							
245.00	249.50	FA **Fracturé(e)** Numerous crisscrossing fractures, hairline to mm, filled by epidote and calcite; variably oriented, generally at angles ranging from 30 to 60CA. Occasional flat fractures at 0-10CA, also filled by epidote and calcite.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

249.50 255.00 S; S10

Sédiments non divisé; Chert

Interflow sediments (exhalative?), mudstone and minor chert.

The rock is very fine-grained to aphanitic, dark grey, locally beige-white to pale grey sericitic chert. Siliceous, moderately hard to scratch, non-carbonaceous, with minor carbonate in fractures. Locally fine black laminations but not graphitic.
Structure: from 251 to 253.6 m, the rock is foliated/laminated at 30-35CA; in other parts the rock is massive, microfractured with chlorite/amphibole and dark grey silica infilling.
Magnetism: non-magnetic.
Mineralization: 0.5 to 5% Py fine to med-grained aggregates in fractures, along laminations. Traces of brownish Sph in Qz veinlets and fractures. Rare traces of Cpy.

XRF: SiO2=38-47%, Al2O3=11-13%, K=3%, Fe=1.5%, Ba=0.2%, no Mg, Mn, Ca.

The lower contact is distinct, marked by a 1 cm wide Qz vein at 18-20CA.

249.50	250.00		A0103679	0.0580	Au-ICP21	VO20089349
250.00	251.00		A0103680	0.0140	Au-ICP21	VO20089349
251.00	252.00		A0103681	0.0120	Au-ICP21	VO20089349
252.00	253.00		A0103682	0.0320	Au-ICP21	VO20089349
253.00	254.00		A0103683	0.0340	Au-ICP21	VO20089349
254.00	255.00		A0103684	0.0310	Au-ICP21	VO20089349

249.50 250.10 PY07

Pyrite 7%

5-10% Py fine to medium-grained aggregates in sediments near the contact with basalt.

250.10 255.00 PY03; SPtr; CPtr

Pyrite 3%; Sphalérite tr; Chalcopyrite tr

0.5 to 5% Py fine to med-grained aggregates in fractures, along laminations. Traces of brownish Sph in Qz veinlets and fractures. Rare traces of Cpy.

249.50 255.00 FA

Fracturé(e)

Moderate to strong microfracturing with chlorite/amphibole and dark grey silica infilling.
From 251 to 253.6 m, the rock is foliated/laminated at 30-35CA.

From	To	Description

From	To	Len	SampleID	Au (ppm)	Method	Certificate

255.00 276.00 V3B

Basalte

Basalt.

The matrix is fine-grained, massive, dark to medium green-grey, with small whitish to yellowish, saussuritized Plg laths and fine-grained aggregates which give the rock a gabbroic appearance. Locally fine disseminated leucoxene. Structure: the rock contains numerous crisscrossing fractures and veinlets, hairline to 1-2 cm wide, variably oriented at a wide range of angles, straight and irregular, often fragmented, folded. Veinlets and fractures are filled by fine-grained aggregates of epidote, albite, quartz, calcite. Occasional late flat fractures filled by white calcite and quartz crosscut epidote-filled fractures.

Magnetism: non-magnetic.

Mineralization:
255-263.9 m - traces to 1% Py small disseminated anhedral grains, fine-grained aggregates in some fractures. Traces Cpy in flat Qz-Cal fractures/veinlets.
At 263.9-264.25 m - chert, medium grey, strongly fractured and mineralized by 15% Py.
264.25-276 m - irregularly distributed fine-grained aggregates of Py in fractures and fine disseminated anhedral grains. Concentrations vary from traces to 5-7%. Overall, 1-2%. Pyrite has bronze-yellow colour - could be non-magnetic pyrrhotine (?).

The lower contact is distinct, at 20CA.

263.90 264.25 S10

Chert

Chert, medium grey, aphanitic, massive, strongly microfractured with Chl/Amph, grey silica and minor calcite infilling. Non-magnetic, strongly siliceous
XRF: SiO_2=51-58%, Al_2O_3=6, no K.

Mineralization: 15% very fine disseminated Py grains, fine-grained aggregates in fractures. Traces Sph.

Distinct, irregular contacts.

255.00 276.00 EP; CC; CL; AM; LX

Épidotisation; Calcitisation; Chloritisation; Amphibolitisation; Leucoxene

Pervasive chloritization/amphibolization of the matrix; saussuritized Plg laths. Numerous veinlets and fractures filled by epidote, albite, quartz, calcite.

255.00	256.00	A0103685	0.0100	Au-ICP21	VO20089349
256.00	257.00	A0103686	0.0080	Au-ICP21	VO20089349
257.00	258.00	A0103687	0.0180	Au-ICP21	VO20089349
258.00	259.00	A0103689	0.0170	Au-ICP21	VO20089349
259.00	260.00	A0103690	0.0190	Au-ICP21	VO20089349
260.00	261.00	A0103691	0.0200	Au-ICP21	VO20089349
261.00	262.00	A0103692	0.0440	Au-ICP21	VO20089349
262.00	263.00	A0103693	0.0060	Au-ICP21	VO20089349
263.00	263.70	A0103694	0.0300	Au-ICP21	VO20089349
263.70	264.25	A0103695	0.0470	Au-ICP21	VO20089349
264.25	265.00	A0103696	0.0120	Au-ICP21	VO20089349
265.00	266.00	A0103697	0.0300	Au-ICP21	VO20089349
266.00	267.00	A0103698	0.0080	Au-ICP21	VO20089349
267.00	268.00	A0103699	0.0090	Au-ICP21	VO20089349
268.00	269.00	A0103700	0.0220	Au-ICP21	VO20089349
269.00	270.00	A0103701	0.0440	Au-ICP21	VO20089349
270.00	271.00	A0103702	0.0030	Au-ICP21	VO20089349
271.00	272.00	A0103703	0.0010	Au-ICP21	VO20089349
272.00	273.00	A0103705	0.0060	Au-ICP21	VO20089349
273.00	274.00	A0103706	0.0120	Au-ICP21	VO20089349
274.00	275.00	A0103707	0.0110	Au-ICP21	VO20089349
275.00	275.50	A0103708	0.0560	Au-ICP21	VO20089349
275.50	276.00	A0103709	0.0070	Au-ICP21	VO20089349

Fine disseminated leucoxene.

255.00 263.70 PY00.5; CPtr

Pyrite 0.5%; Chalcopyrite tr

Traces to 1% Py small disseminated anhedral grains, fine-grained aggregates in some fractures. Traces Cpy in late, flat Qz-Cal fractures/veinlets.
Pyrite has bronze-yellow colour - could be non-magnetic pyrrhotine?

263.90 264.25 PY15

Pyrite 15%

15% very fine disseminated Py grains, fine-grained aggregates in fractures within chert. Traces Sph.

264.25 276.00 PY01.5; PO

Pyrite 1.5%; Pyrrhotine

Irregularly distributed fine-grained aggregates of bronze-yellow Py or non-magnetic pyrrhotine, in fractures and fine disseminated anhedral grains. Concentrations vary from traces to 5-7%. Overall, 1-2%.

255.00 275.50 FA

Fracturé(e)

Numerous crisscrossing fractures and veinlets, hairline to 1-2 cm wide, variably oriented at a wide range of angles, straight and irregular, often fragmented, folded. Veinlets and fractures are filled by fine-grained aggregates of epidote, albite, quartz, calcite.
Occasional late flat fractures filled by white calcite and quartz crosscut epidote-filled fractures.

275.50 275.60 BX

Bréchique

Strong fracturing, crackle brecciation.

275.60 276.00 FA

Fracturé(e)

Moderate to strong irregular fracturing with white calcite and chlorite infilling.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

276.00 279.00 S; S10; LP; V3B

Sédiments non divisé 20°; Chert; Laminations parallèles; Basalte

Siliceous sedimentary rocks intercalated with basalt.

Sediments are fine-grained to very fne-grained to aphanitic, cherty, finely laminated at 35-40CA, medium to dark grey to greenish grey. Some chert laminations are paler grey. Concoidal fracturing. Non-magnetic.
Basalt intervals are fine-grained, slightly coarser than sediments, massive, dark grey-green, moderately fractured with epidote and calcite in fractures. Non-magnetic.

Some contacts between basalt and sediments are distinct but some look gradational. Visually, both lithologies are quite similar in colour but differ in texture and grain size.

Mineralization: traces Py or Po (bronze-yellow colour, non-magnetic). At 276.0-276.4 and 276.8-278 m - 1-3% Py (or Po?) fine-grained aggregates in fractures.

276.40 276.80 V3B

Basalte 55°

Basalt interval within sediments, distinct irregular contacts at ~55CA.
Dark grey-green, fine-grained, massive. Near the upper contact, there are pinkish, blebby Fsp phenocrysts.
Weak-mod fractured with calcite infilling, Non-magnetic.

276.00 279.00 CL

Chloritisation

Chlorite in basalt matrix and in fractures within sediments. Minor calcite and epidote in fractures within basalt.

276.00 276.40 PY02

Pyrite 2%

1-3% Py (Po?) small disseminated grains and fine to med-grained aggregates in fractures in sediments.

276.40 276.80 PYtr

Pyrite tr

Traces Py in basalt.

276.80 278.00 PY02; PO

Pyrite 2%; Pyrrhotine

1-3% Py (or Po?) fine-grained aggregates in fractures in sediments mixed with basalt.

278.00 279.00 PYtr; PO

Pyrite tr; Pyrrhotine

Traces fine Py (or Po?) in some fractures within sediments.

276.00	277.00	A0103710	0.0040	Au-ICP21	VO20089349
277.00	278.00	A0103711	0.0120	Au-ICP21	VO20089349
278.00	279.00	A0103712	0.0030	Au-ICP21	VO20089349

276.00 279.00 FA

Fracturé(e)

Moderate fracturing in basalt (Cal and Ep infilling), moderate microfracturing in sediments (Chl, minor Cal infilling).

Downhole Survey

Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method
0.00	360.00	-53.48	Collar	54.00	359.14	-55.11	Champ Gyro	63.00	359.56	-54.69	Champ Gyro
78.00	359.96	-54.90	Champ Gyro	108.00	359.67	-54.91	Champ Gyro	138.00	358.57	-54.94	Champ Gyro
168.00	0.34	-54.97	Champ Gyro	198.00	0.14	-54.94	Champ Gyro	228.00	0.57	-54.82	Champ Gyro
258.00	0.30	-54.52	Champ Gyro								

Drillhole Information

Easting:	708022.66
Northing:	5490198.25
Elevation:	301.98
Azimuth	92.00
Dip	-63.00

Drilling Information

DrillCo:	RJLL
DrillID:	FSD002
DrillStart:	13-Mar-20
DrillEnd:	14-Mar-20
Length (m):	150.00

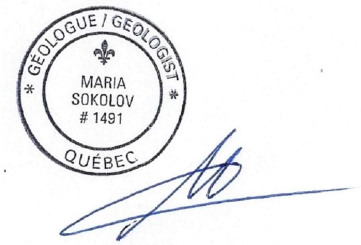
Logging Information

LogBy:	M. Sokolov (OGQ #1491)
LogStart:	13-Mar-20
LogEnd:	23-Mar-20

Drillhole Summary

Intercepts >= 0.1 ppm

none



M. Sokolov (OGQ #1491)
12-Jan-22

Lithology and Assay Results

From	To	Description
0.00	56.60	M-T **Mort terrain** Overburden. Casing down to 57 m. From 47 to 56.6 m - boulders (basalt, syenite, glacial debris).

From	To	Description
56.60	96.95	V3F; VA **Basalte hyper-magnésien; Variolaire** Mg-rich Basalt with minor localized variolitic textures. The rock has a fine-grained, dark to medium green-grey matrix, pervasively chloritized/amphibolized, possibly serpentinized. There are localized mm-cm round to subround varioles, which are paler in colour and aphanitic. Moderate patchy and fracture-filling epidote alteration. Weak reddish pink hematite staining on veins. The unit is mostly non-magnetic except a few weakly magnetic spots. Structure: The rock has a mottled appearance due to numerous, variably oriented fractures and veinlets of different generations: 1) Older veinlets and fractures are filled by fine-grained aggregates of epidote, calcite, quartz, probably albite. They are variably oriented at a wide range of angles, often irregular, and contain brecciated fragments of the host rock. 2) Younger fractures and veinlets. mm to 1-2 cm wide, composed of white calcite with pinkish hematite staining. These fractures are typically straight, oriented at 20 to 60CA, distinctly crosscutting older epidote-filled fractures and veins. Mineralization: traces to 0.5% Py fine grains, disseminated and in some epidote veinlets; locally up to 3% Py as fine-grained aggregates. Traces Cpy in some young calcite-filled fractures. XRF: SiO2=33-35%, Mg=9-11%, Al=7-9%, Fe=6-8%, Ca=3-4%, K=0.1-0.4% , Ni=200-300 ppm, occasional Cr (300-550 ppm).

From	To	Len	SampleID	Au (ppm)	Method	Certificate
56.60	57.30		A0103713	0.0070	Au-ICP21	VO20089349
57.30	58.00		A0103714	0.0020	Au-ICP21	VO20089349
58.00	59.00		A0103715	0.0050	Au-ICP21	VO20089349
59.00	60.00		A0103716	0.0030	Au-ICP21	VO20089349
60.00	61.00		A0103717	0.0030	Au-ICP21	VO20089349
61.00	62.00		A0103718	0.0090	Au-ICP21	VO20089349
62.00	63.00		A0103719	0.0050	Au-ICP21	VO20089349
63.00	64.00		A0103720	0.0040	Au-ICP21	VO20089349
64.00	65.00		A0103722	0.0050	Au-ICP21	VO20089349
65.00	66.00		A0103723	0.0010	Au-ICP21	VO20089349
66.00	67.00		A0103724	0.0010	Au-ICP21	VO20089349
67.00	68.00		A0103725	0.0030	Au-ICP21	VO20089349
68.00	69.00		A0103726	0.0060	Au-ICP21	VO20089349
69.00	70.00		A0103727	0.0040	Au-ICP21	VO20089349
70.00	71.00		A0103728	0.0020	Au-ICP21	VO20089349
71.00	72.00		A0103729	0.0060	Au-ICP21	VO20089349
72.00	73.00		A0103730	0.0030	Au-ICP21	VO20089349
73.00	74.00		A0103731	0.0040	Au-ICP21	VO20089349
74.00	75.00		A0103732	0.0030	Au-ICP21	VO20089349
75.00	76.00		A0103733	0.0050	Au-ICP21	VO20089349
76.00	77.00		A0103734	0.0010	Au-ICP21	VO20089349
77.00	78.00		A0103735	0.0030	Au-ICP21	VO20089349
78.00	79.00		A0103737	0.0030	Au-ICP21	VO20089349
79.00	80.00		A0103738	0.0040	Au-ICP21	VO20089349

The lower contact looks gradational.

56.60	96.95	EP; CC; CL; AM; HM **Épidotisation; Calcitisation; Chloritisation; Amphibolitisation; Hématisatio** Pervasive chloritization/amphibolization of the matrix, moderate patchy and fracture-filling epidote alteation. Late calcite-filled fractures, veinlets. Weak pinkish red hematite staining on epidote and calcite veinlets, on fractured surfaces.
56.60	96.95	PY00.25; CPtr **Pyrite 0.25%; Chalcopyrite tr** Traces to 0.5% Py fine grains, disseminated and in some epidote veinlets; locally up to 3% Py as fine-grained aggregates. Traces Cpy in some young calcite-filled fractures.
56.60	96.95	FA **Fracturé(e)** Numerous, variably oriented fractures and veinlets or different generations:

From	To	Description
96.95	**98.45**	V4; I4 **Volcanique ultramafique; Intrusif ultramafique** Ultramafic rock, volcanic or intrusive? Fine-grained, dark, green-black, pervasively serpentinized, amphibolized, moderately hard to scratch (Amph, Plg in the matrix), uniform, massive. Minimal fracturing with epidote infilling. Magnetism: non-magnetic to weakly magnetic. Mineralization: traces Py. XRF: SiO2=31, Mg=12%, Al=8.6%, Fe=7.5%, Ca=3%, Cr=390 ppm, Ni=440 ppm. The lower contact is distinct, near vertical. The footwall is brecciated and cemented by epidote right on the contact.
96.95	98.45	ST; AM **Serpentinisation; Amphibolitisation** Moderate to strong pervasive serpentinization and amphibolization. Minor epidote in fractures.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
80.00	81.00		A0103739	0.0030	Au-ICP21	VO20089349
81.00	82.00		A0103740	0.0020	Au-ICP21	VO20089349
82.00	83.00		A0103741	0.0020	Au-ICP21	VO20089349
83.00	84.00		A0103742	0.0005	Au-ICP21	VO20089349
84.00	85.00		A0103743	0.0030	Au-ICP21	VO20089349
85.00	86.00		A0103744	0.0005	Au-ICP21	VO20089349
86.00	87.00		A0103745	0.0020	Au-ICP21	VO20089349
87.00	88.00		A0103746	0.0020	Au-ICP21	VO20089349
88.00	89.00		A0103747	0.0020	Au-ICP21	VO20089349
89.00	90.00		A0103748	0.0030	Au-ICP21	VO20089349
90.00	91.00		A0103749	0.0010	Au-ICP21	VO20089349
91.00	92.00		A0103750	0.0005	Au-ICP21	VO20089349
92.00	93.00		A0103751	0.0040	Au-ICP21	VO20089349
93.00	94.00		A0103753	0.0010	Au-ICP21	VO20089349
94.00	95.00		A0103754	0.0020	Au-ICP21	VO20089349
95.00	96.00		A0103755	0.0040	Au-ICP21	VO20089349
96.00	97.00		A0103756	0.0130	Au-ICP21	VO20089351
97.00	98.00		A0103757	0.0090	Au-ICP21	VO20089351

96.95	98.45	PYtr
		Pyrite tr
		Traces Py.
96.95	98.45	FA
		Fracturé(e)
		Very weak fracturing.

From	To	Description
98.45	**132.00**	V3F; VA
		Basalte hyper-magnésien 80°; Variolaire
		Mg-rich Basalt with minor localized variolitic textures. The rock has a fine-grained, dark to medium green-grey matrix, pervasively chloritized/amphibolized, possibly serpentinized. There are localized mm-cm round to subround varioles, which are paler in colour (epidotized) and aphanitic. Moderate patchy and fracture-filling epidote alteration. Minor reddish pink hematite staining on veins. Locally minor brown-beige patches (garnet alteration?) The unit is non-magnetic to weakly magnetic. Structure: 1) numerous older epidote-filled fractures, irregular veinlets, hairline to 1 cm wide, tension gashes. 2) less common younger fractures and veinlets, filled by white calcite, mm-cm wide, crosscutting older epidote fractures; typically straight, oriented at 20 to 45CA. Mineralization: traces to locally 0.5% Py fine grains, disseminated and in some veinlets. Traces Cpy in late calcite veinlets. 113.0-113.7 m - Patchy to pervasive brown Carb, weak patchy epidote, patchy magnetite and weak patchy red hematite/K-Spr. Brown-beige alteration is also present as small blebs. Carbonatite injections or carbonatite-related alteration (strong enrichment in REEs). Traces to 1% Cpy in fractures crosscutting the interval, which are filled by white carbonate/carbonatite. Traces to 1% Py cubic grains in the matrix. 114.35-114.8 m - altered basalt with fenitized patches?? - dark to medium-grey, fine-grained with brownish patches or fragments, Pervasively carbonatized (calcite), mod-str magnetic. Somewhat distinct, fuzzy contacts at ~45CA. Mineralized by traces to 0.5% Py. 124-126.8 m - moderate reddish, pink, beige patchy alteration, injections? XRF shows SiO2=25%, Ca=18%, Fe=9-15%, Al=2-7%, K=0.1% to non-detected. Possibly garnet (andradite) and minor syenitic injections. Traces to 0.5-1% fine

From	To	Len	SampleID	Au (ppm)	Method	Certificate
98.00	99.00		A0103758	0.0020	Au-ICP21	VO20089351
99.00	100.00		A0103759	0.0050	Au-ICP21	VO20089351
100.00	101.00		A0103760	0.0030	Au-ICP21	VO20089351
101.00	102.00		A0103761	0.0030	Au-ICP21	VO20089351
102.00	103.00		A0103762	0.0050	Au-ICP21	VO20089351
103.00	104.00		A0103763	0.0020	Au-ICP21	VO20089351
104.00	105.00		A0103764	0.0020	Au-ICP21	VO20089351
105.00	106.00		A0103765	0.0140	Au-ICP21	VO20089351
106.00	107.00		A0103766	0.0100	Au-ICP21	VO20089351
107.00	108.00		A0103767	0.0030	Au-ICP21	VO20089351
108.00	109.00		A0103768	0.0030	Au-ICP21	VO20089351
109.00	110.00		A0103770	0.0030	Au-ICP21	VO20089351
110.00	111.00		A0103771	0.0030	Au-ICP21	VO20089351
111.00	112.00		A0103772	0.0020	Au-ICP21	VO20089351
112.00	113.00		A0103773	0.0050	Au-ICP21	VO20089351
113.00	114.00		A0103774	0.0070	Au-ICP21	VO20089351
114.00	115.00		A0103775	0.0700	Au-ICP21	VO20089351
115.00	116.00		A0103776	0.0120	Au-ICP21	VO20089351
116.00	117.00		A0103777	0.0020	Au-ICP21	VO20089351
117.00	118.00		A0103778	0.0010	Au-ICP21	VO20089351
118.00	119.00		A0103779	0.0020	Au-ICP21	VO20089351
119.00	120.00		A0103780	0.0020	Au-ICP21	VO20089351
120.00	121.00		A0103781	0.0020	Au-ICP21	VO20089351
121.00	122.00		A0103782	0.0080	Au-ICP21	VO20089351
122.00	123.00		A0103783	0.0010	Au-ICP21	VO20089351
123.00	124.00		A0103785	0.0020	Au-ICP21	VO20089351
124.00	125.00		A0103786	0.0010	Au-ICP21	VO20089351
125.00	126.00		A0103787	0.0050	Au-ICP21	VO20089351
126.00	127.00		A0103788	0.0100	Au-ICP21	VO20089351

diss Py.

The lower contact is arbitrary.

113.00 113.70 I4Q

Carbonatite

Carbonatite?? No distinct contacts to consider this interval a dyke. Patchy to pervasive brown Carb, weak patchy epidote, patchy magnetite and weak patchy red hematite/K-Spr. Brown-beige alteration is also present as small blebs. XRF shows high REEs (Ce=1340 ppm, La=650 ppm, Nd=360 ppm, Y=50 ppm), elevated PO4=4.5%, Sr=900 ppm and Th=37 ppm, which points to carbonatite-related alteration.
Traces to 1% Cpy in fractures crosscutting the interval, which are filled by white carbonate. Traces to 1% Py cubic grains in the matrix.

114.35 114.80 V3F

Basalte hyper-magnésien 45°

Altered basalt with fenitized patches? Fuzzy, irregular contacts at ~45CA. The interval is dark to medium-grey, fine-grained with brownish patches or fragments, Pervasively carbonatized (calcite), mod-str magnetic. Sheared with weakly-developed foliation at 40-45CA.
Mineralized by traces to 0.5% Py.

98.45 113.00 EP; CC; CL; AM

Épidotisation; Calcitisation; Chloritisation; Amphibolitisation

Pervasive chloritization/amphibolization of the matrix, moderate to weak patchy and fracture-filling epidote alteation. Late calcite-filled fractures, veinlets. Minor pinkish red hematite staining on epidote and calcite veinlets. Locally minor brown-beige patchy alteration (garnet?).

113.00 113.70 CB; EP; MG

Carbonatisation; Épidotisation; Magnétite

Patchy to pervasive brown Carb, weak patchy epidote, patchy magnetite and weak patchy red hematite/K-Spr. Brown-beige alteration is also present as small blebs. XRF shows high REEs (Ce=1340 ppm, La=650 ppm, Nd=360 ppm, Y=50 ppm), elevated PO4=4.5%, Sr=900 ppm and Th=37 ppm, which points to carbonatite-related alteration.

113.70 114.35 CC; CL; AM; EP

Calcitisation; Chloritisation; Amphibolitisation; Épidotisation

Pervasive chloritization/amphibolization of the matrix, mod-str patchy to pervasive calcite, weak fracture-filling epidote alteation.

114.35 114.80 CC; MG; FK

Calcitisation; Magnétite; Altération en feldspath potassique

Strong pervasive calcite-alteration, mod-str magnetite. Brownish, reddish patches - fenitization?

127.00	128.00	A0103789	0.0030	Au-ICP21	VO20089351
128.00	129.00	A0103790	0.0020	Au-ICP21	VO20089351
129.00	130.00	A0103791	0.0005	Au-ICP21	VO20089351
130.00	131.00	A0103792	0.0030	Au-ICP21	VO20089351
131.00	132.00	A0103793	0.0030	Au-ICP21	VO20089351

114.80	124.00	EP; CC; CL; AM **Épidotisation; Calcitisation; Chloritisation; Amphibolitisation** Pervasive chloritization/amphibolization of the matrix, moderate to weak patchy and fracture-filling epidote alteation, epidotized varioles. Late calcite-filled fractures, veinlets. Minor pinkish red hematite staining on epidote and calcite veinlets, on occasional syenitic injections.
124.00	126.80	CC; EP; HM; CL; AM; MG **Calcitisation; Épidotisation; Hématisation; Chloritisation; Amphibolitisatio** Moderate reddish, pink, beige patchy alteration, injections? XRF shows SiO2=25%, Ca=18%, Fe=9-15%, Al=2-7%, K=0.1% to non-detected. Possibly garnet (andradite) and minor syenitic injections. Weak to moderate patchy carbonate (calcite), patchy epidote. Patchy magnetic.
126.80	132.00	EP; CL; AM; CC **Épidotisation; Chloritisation; Amphibolitisation; Calcitisation** Pervasive chloritization/amphibolization of the matrix, possibly weak serpentinization. Moderate to strong fracture-filling epidote alteration with minor calcite. Minor pinkish red hematite staining on occasional syenitic injections.
98.45	113.00	PY00.25; CPtr **Pyrite 0.25%; Chalcopyrite tr** Traces to locally 0.5% Py fine grains, disseminated and in some veinlets. Traces Cpy in late calcite veinlets.
113.00	113.70	PY00.5; CP00.25 **Pyrite 0.5%; Chalcopyrite 0.25%** Traces to 1% Cpy in fractures crosscutting the interval, which are filled by white carbonate/carbonatite. Traces to 1% Py cubic grains in the matrix.
114.35	114.80	PY00.5 **Pyrite 0.5%** Traces to 0.5% Py.
114.80	124.00	PYtr **Pyrite tr** Traces Py.
124.00	126.80	PY00.5 **Pyrite 0.5%** Traces to 0.5-1% fine diss Py.
126.80	132.00	PY00.25; CPtr **Pyrite 0.25%; Chalcopyrite tr** Traces to 0.5% Py fine-grained aggregates in some fractures. Locally traces Cpy.

98.45	111.00	FA	
		Fracturé(e)	
		Moderate to strong fracturing. There are two distinct generations of fractures: 1) older epidote-filled fractures, irregular veinlets, sub-mm to 1 cm wide. Fractures are variably oriented at a wide range of angles. Epidote-filled S2 fractures are often oriented at low core angles (0-15CA) and the S3 en-echelon tension gashes are oriented at 35-45CA and terminate at S2 fractures. 2) younger fractures and veinlets, filled by white calcite, mm-cm wide, typically straight, oriented at 20 to 45CA. They crosscut older epidote fractures, sometimes with mm to cm offsets.	
111.00	113.00	FA	10
		Fracturé(e) 10°	
		Strongly fractured interval dominated by epidote-filled fractures and tension gashes. Two distinct angles: 1) flat fractures, en-echelon, sometimes undulating along core axis, at 0-15CA; 2) tension gashes oriented at 30-40CA. Late pinkish white calcite-filled fractures crosscut epidote fractures.	
113.00	113.70	FA	10
		Fracturé(e) 10°	
		Several en-echelon fractures, 1-2 mm wide, oriented at 5-15CA and filled by REE-rich white carbonate/carbonatite.	
113.70	114.35	FA	
		Fracturé(e)	
		Moderate fracturing with epidote and calcite infilling.	
114.35	114.80	CS	42
		Cisaillé(e) 42°	
		Sheared interval with weakly-developed foliation at 40-45CA.	
114.80	120.00	FA	
		Fracturé(e)	
		Moderate to strong fracturing with epidote infilling, dominantly at 15-25CA. Tension gashes at 35-45CA.	
120.00	126.80	FA	
		Fracturé(e)	
		Moderate to strong fracturing with epidote infilling.	

126.80 132.00 FA

Fracturé(e)

Strong fracturing. abundant epidote+/-calcite-filled hairline to a few mm fractures, tension gashes, mm-cm veinlets. Fractures are variably oriented, Dominant orientation at 45-55CA.

From	To	Description
132.00	**143.35**	V3F; MA
		Basalte hyper-magnésien; Roche massive
		Mg-rich Basalt, massive. The rock is medium to dark green-grey, pervasively chloritized / amphibolized and weakly serpentinized, fine-grained. At 140 m, there is a 2 dm interval with varioles, otherwise, the rock is massive, uniform. Non-magnetic to weakly magnetic. Structure: weak to moderate fracturing with epidote and calcite infilling. Fractures are variably oriented. One distinct orientation is at 5-20CA (epidote fill) with sparsely spaced tension gashes at 45-60 degrees to flat fractures. At 138-140.5 m - weak to moderate fracturing with calcite infilling, no epidote. Mineralization: mostly traces Py. Locally 1-2% fine Py in calcite veinlets and in syenite injections. At 132.7-133.6 m - an interval with patchy fenitized, dm-wide shear zones at 15-25CA, oriented opposite to each other and separated by a strongly fractured interval (calcite in fractures). Patchy biotite, minor reddish Hem, dark blue-grey Amph, calcite/carbonate, minor Mgt. The zones are mineralized by 1-3% Py fine to med-size disseminated cubic grains and fine to med-grained aggregates, traces Cpy. XRF: elevated REEs (Ce=225-410 ppm), elevated U (148 ppm), low K (85-125 ppm). At 138.7-138.8 m - two reddish syenite-like injections (no K), 1-3 cm wide, crosscut by calcite-filled fractures and mineralized by 2% Py. At 139.35-139.8 m - Altered Mg-basalt with fenitized patches? - dark to medium-grey, fine-grained with minor brownish patches or fragments, Pervasively carbonatized (calcite), mod-str magnetic. Somewhat distinct, fuzzy upper contact at ~50CA. Mineralized by traces to 0.5% Py, tr Cpy. XRF: SiO2=33, Mg=6%, Al=9-10%, Fe=5-6%, Ca=2-4%, K=1.8-2.7% , Ni=100-130 ppm. The lower contact is somewhat distinct, at 30CA. Epidote alteration stops on the contact.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
132.00	132.70		A0103794	0.0060	Au-ICP21	VO20089351
132.70	133.70		A0103795	0.0030	Au-ICP21	VO20089351
133.70	134.40		A0103796	0.0005	Au-ICP21	VO20089351
134.40	135.00		A0103797	0.0005	Au-ICP21	VO20089351
135.00	136.00		A0103798	0.0005	Au-ICP21	VO20089351
136.00	137.00		A0103799	0.0005	Au-ICP21	VO20089351
137.00	138.00		A0103801	0.0020	Au-ICP21	VO20089351
138.00	139.00		A0103802	0.0030	Au-ICP21	VO20089351
139.00	140.00		A0103803	0.0050	Au-ICP21	VO20089351
140.00	141.00		A0103804	0.0030	Au-ICP21	VO20089351
141.00	142.00		A0103805	0.0040	Au-ICP21	VO20089351
142.00	143.00		A0103806	0.0020	Au-ICP21	VO20089351

139.35 139.80 V3F

Basalte hyper-magnésien 50°

Similar to 114.35-114.8 m - altered Mg-basalt with fenitized patches?? - dark to medium-grey, fine-grained with minor brownish patches or fragments, Pervasively carbonatized (calcite), mod-str magnetic. Somewhat distinct, fuzzy upper contact at ~50CA. Mineralized by traces to 0.5% Py, tr Cpy.

132.70 133.60 CC; BO; AM; FK

Calcitisation; Biotitisation; Amphibolitisation; Altération en feldspath pot

Patchy fenitization in shear zones, carbonatization. Weak patchy biotite, dark blue-grey riebeckite/glaucophane, weak reddish Hem/K-spr.

133.60 138.00 EP; CC; CL; AM; ST

Épidotisation; Calcitisation; Chloritisation; Amphibolitisation; Serpentinis

Pervasively chloritized/amphibolized and weakly serpentinized matrix. Weak fracture-filling epidote and calcite alteration.

138.00 140.50 CC; CL; AM; ST

Calcitisation; Chloritisation; Amphibolitisation; Serpentinisation

Weak to moderate, locally strong, patchy to pervasive calcite in the matrix and fractures. The matrix is pervasively chloritized/amphibolized and serpentinized.

140.50 143.35 EP; CC; CL; AM; ST

Épidotisation; Calcitisation; Chloritisation; Amphibolitisation; Serpentinis

Pervasively chloritized/amphibolized and weakly serpentinized matrix. Weak to moderate fracture-filling epidote and calcite alteration.

132.00 132.70 PYtr

Pyrite tr

Traces Py.

132.70 133.60 PY02; CPtr

Pyrite 2%; Chalcopyrite tr

1-3% Py fine to med-size disseminated cubic grains and fine to med-grained aggregates in sheared, fenitized zones. Traces Cpy.

133.60 139.35 PYtr

Pyrite tr

Traces Py, locally 1-2% Py in some calcite veinlets and in two syenite-like injections at 138.8 m.

139.35 139.80 PY00.25; CPtr

Pyrite 0.25%; Chalcopyrite tr

traces to 0.5% Py, tr Cpy.

139.80	143.35	PYtr **Pyrite tr** Traces Py.	
132.00	132.70	FA **Fracturé(e)** Weak to moderate microfracturing with dark chlorite (serpentine?) and calcite infilling. A few calcite veinlets.	
132.70	133.60	CS; FA **Cisaillé(e) 25°; Fracturé(e)** A 5-7cm wide shear zone at the beginning of this interval, at 15-25CA, patchy fenitized (biotite, calcite) and a 7-10 cm wide shear zone at the end of this interval, also fenitized (K-spr, calcite, minor biotite, riebeckite/glaucophane) and oriented at 25-27CA but in opposite direction. Strong fracturing between these two zones, mainly at 30-50CA, tension gashes, calcite infilling. The two zones might be parts of the same shear system. The fracture pattern in between the zones does not support the idea of a fold or undulation.	25
133.60	136.50	FA **Fracturé(e)** Weak fracturing with epidote and calcite infilling. Fractures are variably oriented.	
136.50	137.00	FA **Fracturé(e)** S2 fracture at 5-10CA and tension gashes S3 oriented at 45-60CA to S2; epidote-filled, sub-mm to mm..	
137.00	140.50	FA **Fracturé(e)** Weak fracturing with calcite infilling, mainly at 45-60CA. At 140.4-140.5 m - an S2 fracture at 12CA filled by Ep+Cal and several S3 tension gashes at 65-90 degrees to S2.	
140.50	143.35	FA **Fracturé(e)** Moderate fracturing with epidote and lesser calcite infilling. One distinct orientation at 5-25CA (S2) and tension gashes (S3) 45 to 90 degrees to S2.	

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

143.35 150.00 V4; V3F; MA

Volcanique ultramafique 30°; Basalte hyper-magnésien; Roche massive

Ultramafic volcanic rock (komatiitic basalt?) grading into Mg-Basalt.
The rock is dark, green-black in the upper portion and medium green-grey in the lower. Fine-grained, massive, uniform, homogenous, rather hard to scratch, pervasively amphibolized, serpentinized and chloritied, non-carbonatized, non-magnetic.

Structure: very weak fracturing in the upper parts.
At 144.5-145 m - weakly sheared at 10-15CA with minor epidote fibres and brittle fractures parallel to shear filled by white carbonate and red K-spr(?).
At 145 to 147.8 m - several periodic epidote-filled fractures at 5 to 25CA at 1-3 dm spacing.
From 147.8 to 150 m - moderate fracturing at various angles, with epidote and calcite infilling, tension gashes. Angles range from 15 to 70CA. Late calcite-filled fractures crosscut epidote fractures.
Mineralization: rare traces Py.

XRF (upper portion, serpentinized): SiO2=25-33%, Al=8-10%, Mg=12-13%, Fe=7%, Ca=3-4%, Ni=380-550 ppm, Cr=300-720 ppm; no K.

EOH

143.35 147.80 AM; ST; CL

Amphibolitisation; Serpentinisation; Chloritisation

Pervasively amphibolized, serpentinized and chloritied matrix, non-carbonatized, non-magnetic.
Very minor epidote in occasional fractures.

147.80 150.00 EP; CC; AM; ST; CL

Épidotisation; Calcitisation; Amphibolitisation; Serpentinisation; Chloritis

Pervasively amphibolized, serpentinized and chloritied matrix, non-carbonatized, non-magnetic.
Weak to moderate epidote and lesser calcite in fractures.

143.35 150.00 PYtr

Pyrite tr

Rare traces of Py.

144.50 145.00 CS 15

Cisaillé(e) 15°

Weakly sheared at 10-15CA with minor epidote fibres and brittle fractures parallel to shear filled by white carbonate and red K-spr(?).

143.00	144.00	A0103807	0.0005	Au-ICP21	VO20089351
144.00	145.00	A0103809	0.0050	Au-ICP21	VO20089351
145.00	146.00	A0103810	0.0005	Au-ICP21	VO20089351
146.00	147.00	A0103811	0.0020	Au-ICP21	VO20089351
147.00	148.00	A0103812	0.0005	Au-ICP21	VO20089351
148.00	149.00	A0103813	0.0005	Au-ICP21	VO20089351
149.00	150.00	A0103814	0.0005	Au-ICP21	VO20089351

145.00	147.80	FA	15
		Fracturé(e) 15°	
		Several periodic epidote-filled fractures at 5 to 25CA at 1-3 dm spacing.	
147.80	150.00	FA	
		Fracturé(e)	
		Moderate fracturing at various angles with epidote and calcite infilling, tension gashes. Angles range from 15 to 70CA. Late calcite-filled fractures crosscut epidote fractures.	

Downhole Survey

Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method
0.00	92.01	-63.00	Collar	63.00	92.67	-62.49	Champ Gyro	72.00	93.09	-62.62	Champ Gyro
87.00	92.37	-62.44	Champ Gyro	117.00	92.77	-62.18	Champ Gyro	147.00	92.73	-62.21	Champ Gyro

Drillhole Information

Easting: 707804.16
Northing: 5490381.22
Elevation: 299.30
Azimuth 2.10
Dip -50.10

Drilling Information

DrillCo: RJLL
DrillID: FH2
DrillStart: 14-Mar-20
DrillEnd: 15-Mar-20
Length (m): 207.00

Logging Information

LogBy: E. Stavre (OGQ #2144)
LogStart: 14-Apr-20
LogEnd: 16-Apr-20

Drillhole Summary

Intercepts >= 0.1 ppm

Hole_ID	From	To	Length	Au (ppm)
DO-20-278	74	75	1	0.1
DO-20-278	81.8	82.8	1	0.156
DO-20-278	84	85	1	0.178
DO-20-278	116	118	2	0.249
DO-20-278	121	123	2	0.41

E. Stavre (OGQ #2144)
12-Jan-22

Lithology and Assay Results

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
0.00	**45.00**	M-T **Mort terrain** Overburden.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
45.00	**53.00**	V3B AP **Basalte; Aphanitique** Basalt. Green color, fine grain, aphanitic,(45m-45.45.5m syenite boulders). 46m-50.3m broken core with <10 gabbro boulders. RQD<40%Fractured Zone:<25% fractured, overall with S2 carbonate/epidote filled factures at 70-75degree to core axis and carbonate filled S3 fractures patches at high angle to core axis. Fault at 50m-50.3m gougy, at approx. 30degree to core axis, with clay sections. Carbonate/chlorite with amphibole actinolite alteration and patchy biotite (49m-50.4m). Upper unit epidote stringers to intense patches. 52m-52.5m actinolite/carbonate alteration with patchy moderate hematite/Fe-carbonate.Weak to moderate hematite overall.Mineralized trace to 0.5% Pyrite.Lower contact is graditional biotite alteration defined.	45.00	46.00		V473859	0.0150	Au-ICP21	VO20094559
			46.00	47.00		V473860	0.0090	Au-ICP21	VO20094559
			47.00	48.00		V473861	0.0150	Au-ICP21	VO20094559
			48.00	49.00		V473862	0.0240	Au-ICP21	VO20094559
			49.00	50.00		V473863	0.0070	Au-ICP21	VO20094559
			50.00	51.00		V473864	0.0050	Au-ICP21	VO20094559
			51.00	52.00		V473865	0.0080	Au-ICP21	VO20094559
			52.00	53.00		V473866	0.0060	Au-ICP21	VO20094559
45.00	49.00	CB; CL; EP **carbonatization; Chloritisation; Épidotisation** Carbonate/chlorite with amphibole actinolite alteration and patchy biotite (49m-50.4m) Upper unit epidote stringers to intense patches.52m-52.5m actinolite/calcite alteration with patchy moderate hematite/Fe-carbonate.weak to moderate hematite overall.							

49.00	50.40	AM; BO **Amphibolitisation; Biotitisation** Amphibole actinolite alteration and patchy biotite (49m-50.4m).	
50.40	52.00	CB; HM **carbonatization; Hématisation** Weak to moderate hematite overall.	
52.00	52.50	AM; CB; HM **Amphibolitisation; carbonatization; Hématisation** 52m-52.5m actinolite/calcite alteration with patchy moderate hematite/Fe-carbonate.	
52.50	53.00	HM; CB **Hématisation; carbonatization** Patchy moderate hematite/Fe-carbonate.	
45.00	53.00	PY00.5 **Pyrite 0.5%** Mineralized trace to 0.5% pyrite	
45.00	50.00	FJ **Faille 75°** Fractured Zone:<25% fractured, overall with S2 calcite/epidote filled factures at 70-75 degree to-core-axis.and calcite filled S3 fractures patches at high angle to-core-axis	75
50.00	50.30	FJ **Faille 30°** Fractured Zone:Fault at 50m-50.3m gougy, at possibly 30 degree to-core-axis?, with clay sections	30
50.30	53.00	FA **Fracturé(e) 75°** Fractured Zone:<25% fractured, overall with S2 calcite/epidote filled factures at 70-75 degree to-core-axis.and calcite filled S3 fractures patches at high angle to-core-axis 75	75

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
53.00	**54.00**	V3F; AP **Basalte hyper-magneticnésien; Aphanitique** Hypermagnesian basalt. Green to dark green color, fine grained, aphanitic. Biotite/Chlorite/ actinolite alteration. Gradational lower contact. Trace pyrite.Lower contact is graditional.	53.00	54.00		V473867	0.0050	Au-ICP21	VO20094559
53.00	54.00	BO; CL; AM **Biotitisation; Chloritisation; Amphibolitisation** Chlorite/ actinolite alteration.							
53.00	54.00	PY00.5 **Pyrite 0.5%** TR pyrite.							
54.00	**56.00**	V4; AP **volcanics contactanique ultramafique; Aphanitique** Ultramafic volcanics. Magnetic, dark green color, fine grained, aphanitic.Preferred fabric at 40 degree to core axis (angle off actinolite), <5% fractured erratic, carbonate/talc contact filled with magnetite to rare pyrite.Serpentinzation/talc contact with chlorite/biotite patches. Potassic alteration alternating intesity with (54.8m-55.2m increasing K-feldspar /carbonate/hematite/actinolite).Lower contact is gradational.Mineralization at trace pyrite.	54.00 55.00	55.00 56.00		V473868 V473869	0.0080 0.0110	Au-ICP21 Au-ICP21	VO20094559 VO20094559
54.00	54.80	ST; TC; BO; CL **Serpentinisation; Talcification; Biotitisation; Chloritisation** Serpentinzation/talc with chlorite/biotite patches. potassic alteration alternating intensity with (54.8m-55.2m increasing K-sapr alt'n/carbonate/hematite/actinolite).							
54.80	55.20	FK; CB; HM; AM **Altération en feldspath potassique; carbonatization; Hématisation; Amph** Potassic alteration alternating intensity with (54.8m-55.2m increasing K-sapr alt'n/carbonate/hematite/actinolite).							

55.20	56.00	ST; TC; BO; CL **Serpentinisation; Talcification; Biotitisation; Chloritisation** Serpentinzation/talc with chlorite/biotite patches.
54.00	56.00	PY00.5 **Pyrite 0.5%** Mineralization at trace pyrite

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
56.00	**62.00**	V3F; AP **Basalte hyper-magneticnésien; Aphanitique** Hypermagnesian Basalt.Magnetic, green to dark green color, fine grained, aphaniticFractured Zone with <10% carbonate/epidote filled fractured at 70-75 degree to core axis with carbonate/chlorite alteration, actinolite alteration, pervasive hematite. 59.1m-60m strong Fe-carbonate patches, overprinting, Leucoxene alteration alternating intesity.Minralization trace pyrite. Lower contact is graditional	56.00	57.00		V473870	0.0300	Au-ICP21	VO20094559
			57.00	58.00		V473871	0.0320	Au-ICP21	VO20094559
			58.00	59.00		V473872	0.0200	Au-ICP21	VO20094559
			59.00	60.00		V473874	0.0220	Au-ICP21	VO20094559
			60.00	61.00		V473875	0.0130	Au-ICP21	VO20094559
			61.00	62.00		V473876	0.0140	Au-ICP21	VO20094559

56.00	59.10	BO; CB; AM; HM; LX **Biotitisation; carbonatization; Amphibolitisation; Hématisation; Leucoxen** Carbonate/chlorite alteration, actinolite alteration, pervasive hematite, 59.1m-60m strong Fe-carbonate patches, overprinting, leucoxene alteration alternating intensity.
59.10	60.00	CB; LX; HM **carbonatization; Leucoxene; Hématisation** 59.1m-60m strong Fe-carbonatepatches, overprinting, leucoxene alteration alternating intensity.
56.00	62.00	PY00.5 **Pyrite 0.5%** Mineralization at trace pyrite
56.00	62.00	FA 75 **Fracturé(e) 75°** Fractured Zone with <10% calcite/epidote filled fractured at 70-75 degree to-core-axis

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

62.00	**69.00**	V3B (I2D); AP	
		Basalte avec 5 à 25% de syénite; Aphanitique	
		Basalt, with <25% syenite.Magnetic, green to reddish patches, aphanitic, hypermnagnesial Basalt patches with rare porphyritic syenite injections 64m-64.4m.Locally foliated at 50 degree to core axis(63.4m-64.75m) with locally sheared at 50 degree to core axis(63.7m-63.8m 4cm mylonite with biotite/actinolite boudinaged mafic fragments, <5% erratic carbonate/magnetite/Pyrite filled fracturing overall. Thin to ~1cm carbonate/K-feldspar/hematite altered syenite fragments to injections, (63.7m-64.7m) with strong Fe-carbonate patches to banding overprinting hypermagnesian basalt.Carbonate/hematite/Fe-carbonate with patchy potassic alteration to fenitization.Mineralized up to 2% fine to very fine grain Pyrite disseminated to fracture filling pyrite overall. Mineralized ZONE with up to 8% fine to very fine grain pyrite disseminated to fracture filling locally at 66.6m-69m Lower contact is graditional with increasing siderite, vuggy/fractured. Mineralized at 4-5% very fine grain pyrite disseminated to fracture filling	
64.00	64.40	I2D; PO	
		Syénite; Porphyrique	
		Porphyric syenite injections 64m-64.4m.	
62.00	63.70	CB; HM; FK	
		carbonatization; Hématisation; Altération en feldspath potassique	
		Carbonate/hematite/Fe-carbonatewith patchy potassic alter'n to fenitization.	
63.70	64.70	CB; BO	
		carbonatization; Biotitisation	
		Strong Fe-carbonate patches to banding overprinting medium-grain basalt.	
64.70	69.00	CB; HM; FK	
		carbonatization; Hématisation; Altération en feldspath potassique	
		Carbonate/hematite/Fe-carbonate with patchy potassic alter'n to fenitization.	
62.00	64.00	PY02	
		Pyrite 2%	
		Mineralized up to 2% vf to very-fine-grain pyrite disseminated to fracture filling pyrite overall	
64.00	64.40	PY09	
		Pyrite 9%	
		up to 8-9% fine-grain to very-fine-grain pyrite disseminated to fracture filling locally	

62.00	63.00	V473877	0.0460	Au-ICP21	VO20094559
63.00	64.00	V473878	0.0380	Au-ICP21	VO20094559
64.00	65.00	V473879	0.0450	Au-ICP21	VO20094559
65.00	66.00	V473880	0.0280	Au-ICP21	VO20094559
66.00	67.00	V473881	0.0240	Au-ICP21	VO20094559
67.00	68.00	V473882	0.0440	Au-ICP21	VO20094559
68.00	69.00	V473883	0.0250	Au-ICP21	VO20094559

64.40	68.90	PY02	
		Pyrite 2%	
		Mineralized up to 2% vf to very-fine-grain pyrite disseminated to fracture filling pyrite overall	
68.90	69.00	PY05	
		Pyrite 5%	
		mineralized at 4-5% very-fine-grain pyrite disseminated to fracture filling	
63.40	64.75	CS	50
		Cisaillé(e) 50°	
		Locally foliated at 50 degree to-core-axis(63.4m-64.75m) locally sheared at 50 degree to-core-axis(63.7m-63.8m 4cm mylonite with biotite/actinolite boudinaged mafic fragments	

From	To	Description
69.00	**70.30**	I2D V3B
		Syénite avec 25 à 50% de basalte 65°
		Syenite with 50% basalt.Magnetic, reddish, aphanitic, faint porphyritic sections, carbonate altered feldspar laths. <10% carbonate/magnetite/Pyrite filled fractures at 40 degree to core axis, with <5% Porphyritic syenite <1cm size injections.Patchy Fe-carbonate/hematite alternating with carbonate/K-feldspar/hematite fenites patches sericite flakes to intergranular. Mineralizarion at 3-4% fine to very fine grain Pyrite disseminated overall with up to 8% fine to very fine grain Pyrite disseminated to fracture filling marginal to syenite. 2-3% specularite disseminated to fracture filling. 70.2m-70.3m one carbonate unit at 65 degree to core axis. Marks up Lower contact.
70.20	70.30	I4Q
		Carbonatite 65°
		70.2m-70.3m one carbonatite unit at 65 degree to-core-axis.
69.00	70.30	CB; HM; SR; FK
		carbonatization; Hématisation; Séricitisation; Altération en feldspath pot
		Patchy Fe-carbonate/hematiteaite alteranting with carbonate/k-feldspar/hematite fenites patches sericite flakes to intergranular.
69.00	70.20	PY01
		Pyrite 1%
		Trace to 1% pyrite

From	To	Len	SampleID	Au (ppm)	Method	Certificate
69.00	70.00		V473884	0.0310	Au-ICP21	VO20094559

70.20	70.30	PY08; HS03
		Pyrite 8%; Spécularite 3%
		Mineralizarion at 3-4% fine-grain to very-fine-grain pyrite disseminated overall with up to 8% fine-grain to very-fine-grain pyrite disseminated to fracture filling marginal to syenite. 2-3% specularite disseminated to fracture filling.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
70.30	**72.80**	V3B I2D; BQ	70.00	71.00		V473885	0.0660	Au-ICP21	VO20094559
		Basalte avec 25 à 50% de syénite; Brèche de coulée 55°	71.00	72.00		V473886	0.0190	Au-ICP21	VO20094559
		Basalt with 50% altered syenite ,re-worked flow breccia, green patches to reddish , aphanitic<5% carbonate/silicified filled hairline fractures at 70 degree to core axis with preferred fabric at 40 degree to core axis. 85% re-worked flow breccia with Fe-carbonate replacing patches to carrbonate replacing. Carbonate/Fe-carbonate/K-feldspar-feldsapar altertion overall with strong hematiteatiite patches to strong fenites. Amphibole/chlorite replacing.Mineralized up to 7% fine to very fine grain Pyrite disseminated, to fracture filling/amphibole overprinitng/zoning.	72.00	73.00		V473887	0.0270	Au-ICP21	VO20094559
		Lower contact is sharp at 55 degree to core axis litho defined.							
70.30	72.80	CB; FK; HM; AM; CL							
		carbonatization; Altération en feldspath potassique; Hématisation; Amph							
		Carbonate/Fe-carbonate/k-feldspar altertion overall wth strong hematiite patches to strong fenites. Amphibole/chlorite replacing.							
70.30	72.80	PY07							
		Pyrite 7%							
		Mineralized up to 7% fine-grain to very-fine-grain pyrite disseminated pyrite to fracture filling/amphibole overprinitng/zoning.							
69.00	73.30	FA 40							
		Fracturé(e) 40°							
		<10% carbonate/Mag/pyrite filled fractures at 40 degree to-core-axis, with <5% Porphyritic syenite <1cm size injections							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

72.80	**75.80**	I2D; PO	73.00	74.00	V473889	0.0230	Au-ICP21	VO20094559
		Syénite 55°; Porphyrique	74.00	75.00	V473890	**0.1000**	Au-ICP21	VO20094559
		Syenite.	75.00	76.00	V473891	0.0290	Au-ICP21	VO20094559

Reddish, porphyritic texture, medium grain. <5% carbonate/silicifieda/sericite/Pyrite filled fracturing at 50 degree to core axis.

72.8m-72.94m one late syenite dyke at 65degree to core axis carbonate/Pyrite/Specularite filled fractured with strong carbonate/Fe-carbonate pateches/K-feldspar/hematite to srong K-feldspar overprinting. Mineralization is up to 3-4% fine to very fine grain Pyrite stringers to fracture filling.

72.9m-72.7m silicified beige syenite proximal contact alteration, faint porphyritic to aphanitc, carbonate altered fedspar laths zoning with Pyrite/Specularite overprinting. Mineralized up to 5% Pyrite/specularite belbs.

72.7m-74.8m carbonate/sericite flakes/weak silicification overall with late carbonate/hematite/K-feldspar fenitization cm bands.
74.74.55m-74.68m strong pervasive siderite/hematite/carbonate with 8-10% specularite, 2-3% fine grain Pyrite disseminated,(late syenite dyke), followed by a strong 3cm hematite/carbonate altered mafic unit, Marks up lower contact at 55degree to core axis.

72.80 72.90 I2D; PO

Syénite; Porphyrique

One late syenite dyke at 65 degree carbonate/pyrite/Specularite filled fractured with strong Carbonate/Fe-carbonate patches/k-feldspar/hematite to trong K-feldspar overprinting. Mineralized at 3-4% fine-grain to fine-grain pyrite stringers to fracture filling.

72.90 74.74 I2D; PO

Syénite; Porphyrique

Late syenite dyke, strong pervasive siderite/hematite/carbonate with 8-10% specularite, 2-3% fine-grain pyrite disseminated.

74.74 74.80 V3B

Basalte 55°

Strong 3cm hematite/carbonate altered mafic unit, Marks up lower-contact "55 degree to-core-axis.

72.80 74.68 CB; SR; HM; FK

carbonatization; Séricitisation; Hématisation; Altération en feldspath pot

Carbonate/sericite flakes/weak silicification overall with late carbonate/hematiteK fenitization cm bands.

74.68 74.74 CB; HM

carbonatization; Hématisation

74.74.55m-74.68m strong pervasive siderite/hematite/carbonate.

74.74 75.80 SI; CB; HM; FK

Silicification; carbonatization; Hématisation; Altération en feldspath pota

Silicification overall with late carbonate/hematiteK fenitization cm bands.

72.80 72.90 PY04; HS04

Pyrite 4%; Spécularite 4%

72.8m-72.94m one late syenite dyke at 65 deg carbonate/pyrite/Specul filled fracture d with strong Carbonate/Fe-carbonate pateches/k-feldspar/Hematite to strong K-spar overprinting. mineralized at 3-4% fine-grain to very-fine-grain pyrite stringers to fracture filling

72.90 74.68 PY01

Pyrite 1%

Mineralized up to 1% fine-grain pyrite disseminated to fracture filling

74.68 74.74 PY03; HS10

Pyrite 3%; Spécularite 10%

8-10% specularite, 2-3% fine-grain pyrite disseminated

74.74 75.80 PY01

Pyrite 1%

Up to 1% pyrite fine-grain stringers

From	To	Description
75.80	**80.10**	V1; GF **volcanics contactanique felsique non divisé; Grains fins** Dacite. (Possible premature Sediment, wacke?). Beige, altered, fine grain to very fine grain, lack of quartz eyes?, lack of lamination.<10% silica filled fractures at 30 degree to core axis with <10% late /carbonate/K-feldspar/hematite altered porphyritic syenite dykes to dyklet/mm size injections/fluid with graditional contacts at approx, 80 degree to core axis.Sericitization/carbonate/silicification with few intense limonitization/siderite/hematite bands in and around syenite injections.Mineralized at 3% fine grain Pyrite blebs overprinting,(carbonate altered feldspar zoning?) with abundant specularite and up to 3% Pyrite fracture filling to specularite overprinintg. Lower contact is graditional.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
76.00	77.00		V473892	0.0170	Au-ICP21	VO20094559
77.00	78.00		V473893	0.0160	Au-ICP21	VO20094559
78.00	79.00		V473894	0.0190	Au-ICP21	VO20094559
79.00	80.00		V473895	0.0130	Au-ICP21	VO20094559

75.80 80.10 SR; CB; SI; LM

Séricitisation; carbonatization; Silicification; Limonitisation

Sericitization/carbonate/silicification with few intense limonitization/siderite/hematite bands in and around syen injections.

75.80 80.10 PY03; HS10

Pyrite 3%; Spécularite 10%

Mineralized at 3% fine-grain pyrite blebs overprinting (calcite altered feldspar zoning?) with abundant specularite and up to 3% pyrite fracture filling to specularite overprinintg.

75.80 80.10 FA 80

Fracturé(e) 80°

<10% silica filled fractures at 30 degree to-core-axis with <10% late /carbonatee/k-feldspar/hem altered porphy'c syenitee dykes to dykelet/mm size injections/fluid with graditional contacts at approx, 80 degree to-core-axis.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
80.10	**81.20**	V3B (I2D); AP **Basalte avec 5 à 25% de syénite 60°; Aphanitique** Mineralized. Altered basalt with 25% syenite.Grey to light reddish, aphanitic, to faint porphyritic bands(syenite injections). Altered, carbonate/Pyrite/Specularite filled fraturing at <10% erratic with preferred fabric at ~50 degree to core axis,<5% late <1cm size syenite dyklet to injections at 65-70 degree to core axis.Carbonate repalower contacting overall with Fe-carbonate/grey potassic patches. Hematite/carbonate with moderate fenitization. Leucoxene alteration. Mineralized at up to 15% fine grain to very fine grain Pyrite disseminated to fracture filling overall, 3% hematite/specularite/Pyrite blebs overall with 5% specularite fracure filling/blebs. Lower contact is somewhat defined at approx 60 degree to core axis.	80.00	81.00		V473896	0.0190	Au-ICP21	VO20094559

80.10 81.20 CB; FK; HM; LX

carbonatization; Altération en feldspath potassique; Hématisation; Leuco

Carbonitized repalcing overall with Fe-carbonate/grey potassic patches.Hematite/carbonate with moderate fenitization. leucoxene alteration.

80.10 81.20 PY15; HS03

Pyrite 15%; Spécularite 3%

Mineralized at up to 15% fine-grain to very-fine-grain pyrite disseminated

to fracture filling overall, 3% hematite/specularite/pyrite blebs overall with 5% specularite fracture filling/blebs

80.10 81.20 FA 50

Fracturé(e) 50°

carbonate/pyrite/specularite filled fracturing at <10% erratic with preferred fabric at ~50 degree to-core-axis,<5% late <1cm size syenite dykelet to injections at 65-70 degree to-core-axis.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
81.20	**82.14**	I2D; PO **Syénite 65°; Porphyrique** Syenite. Red, faint porphyritic textured, altered. <20 carbonate filled hairline fractures at 50degree to core axis with late erratic hairline fracturing cross cutting.Strong hematite/Fe-carbonate patches/alternating potassic patches, with strong fenitization.Mineralized up to 3% fine to very fine grain Pyrite fracture filling to stringers to disseminated patches. Lower contact is 65 degree to core axis, defined.	81.00	81.80		V473897	0.0510	Au-ICP21	VO20094559

81.20 82.14 HM; CB; FK

Hématisation; carbonatization; Altération en feldspath potassique

Strong Hematte/Fe-carbonate patches/alternating potassic patches, with strong fenitization.

82.10 82.14 PY03

Pyrite 3%

Mineralized up to 3% fine-grain to very-fine-grain pyrite fracture filling to stringers to disseminated patches

81.20 82.70 FA 5

Fracturé(e) 5°

<20 carb filled hairline fractures at 50 degree to-core-axis with late erratic hairline fracturing cross-cutting.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
82.14	**83.00**	V3B (I2D); AP **Basalte avec 5 à 25% de syénite 80°; Aphanitique** Carbonate bleached Altered Basalt with 30-40 % syenite fragments to mm size altered hematite/carbonate syenite injections. 50 degree to core axis, preferred fabric, with one shear deformation at 82.7m-82.8m marking up the lower contact at 70 degree to core axis with elongated feldspar to boudinaged carbonate altered syenite frgments.Carbonatisation with Fe-carbonate patches to mm size bands, semipervasive to mm size bands potassis alteration. Strong hematite patches. Veryfine grain Leucoxene semipervasive. Mineralized up to 2% fine grain Pyrite disseminated. Lower contact is sharp at 80 degree to core axis, litho defined.	81.80	82.80		V473898	**0.1560**	Au-ICP21	VO20094559
82.14	83.00	CB; HM; LX **carbonatization; Hématisation; Leucoxene** Carbonatization with Fe-carbonate patches to mm size bands, semipervasive to mm size bands potassis alteration. Strong hematite patches. vfine-grain leucoxene semipervasive.							
82.14	83.00	PY02 **Pyrite 2%** MInerlaized up to 2% fine-grain pyrite disseminated							
82.70	82.80	CS 70 **Cisaillé(e) 70°** one shear deformation at 82.7m-82.8m marking low contact at 70 degree to-core-axis with elongated feldspar to boudinaged carbonate altered syenite fragments							
83.00	**85.00**	I2D V3B PO **Syénite avec 25 à 50% de basalte 60°; Porphyrique** Mineralized Zone. Altered (quartz) syenite with <40% digested basalt.porphyritic textured, medium granulation to aphanitic, mm size feldspar laths to quartz phenos to fragments.<5% vuggy texture with one 3 cm carbonate at 83.57m at 75degree to core axis, somewhat sheared unit increasing with <10% late carbonate/pyrite/specularite filled fracturing at 45-50 degree to core axis. 84.74m-85m(possible mafic tuff) one altered mafic volcanics contactanic with <20% mm size altered felsic fragments to mm size syenite injections, reddish,	82.80 83.50 84.00	83.50 84.00 85.00		V473899 V473900 V473101	0.0480 0.0440 **0.1780**	Au-ICP21 Au-ICP21 Au-ICP21	VO20094559 VO20094559 VO20094558

sheared at 50 degree to core axis, carbonate with strong semipervasive Fe-carbonate , hematite/potassic alteration, alternating. Mineralized at 8% fine grain to very fine grain Pyrite disseminated to stringerscarbonatisation with strong to intense Fe-carbonate patches to somewhat semipervasive, Fenitization alternating intesity with strong to intense hematite patches. Silica flooding marking up lower contact. Mineralization 15-20 % fine to very fine grain Pyrite disseminated to Pyrite stringers/fracture filling, 1-2% sphalerite/galena blebs with abundant specularite disseminated/fracture filling to iron mica.Lower contact at 60 degree to core axis, sharp.

83.57 83.58 I4Q

Carbonatite 75°

One 3 cm carbonatite at 83.57m at 75 degree to-core-axis.

84.74 85.00 V3B (I2D)

Basalte avec 5 à 25% de syénite

84.74m-85m(possible mafic tuff) one altered mafic lower-contact with <20% mm size altered felsic fragments to mm size syenite injc, reddish, sheared at 50 degree to-core-axis, carbonatized with strong semipervasive Fe-carbonate , hematite/potassic alternating. Mineralized at 8% fine-grain to fine-grain pyrite disseminated to stringers.

83.00 85.00 CB; HM; FK; SI

carbonatization; Hématisation; Altération en feldspath potassique; Silicifi

Carbonatization with strong to intense Fe-Carb patches to somewhat semipervasive, Fenitization alternating intensity with strong to intense hematite patches. silicification flooding marking up LC.

83.00 85.00 PY20; GL01; HS20

Pyrite 20%; Galéne 1%; Spécularite 20%

Mineralization 15-20 % fine-grain to very-fine-grain pyrite disseminated to pyrite stringers/fracture filling, 1-2% sphalerite/galena blebs with abundant specularite disseminated/fracture filling to iron mica.

84.74 85.00 CS 50

Cisaillé(e) 50°

84.74m-85m (possible mafic tuff) one altered mafic volcanic with <20% mm size altered felsic fragments to mm size syenite injections, reddish, sheared at 50 degree to-core-axis, carbonatized with strong semipervasive Fe-carbonate , hematite/potass'c alternating. Mineralized at 8% fine-grain to vfine-grain pyrite diss;d to stringers

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

85.00	**87.40**	V4; V3F; AP	85.00	86.00	V473102	0.0200	Au-ICP21	VO20094558
		volcanics contactanique ultramafique; Basalte hyper-magneticnésien; Aphani	86.00	87.00	V473103	0.0040	Au-ICP21	VO20094558

Ultramafic volcanics (85m-86m, 86.6m-87.3m) to hypermagnesian basalt.

Dark brown to dark green color, fine grain, aphanitic to altered. <10% fractured with carbonate filled fracturing at 50-55 degree to core axis.Patchy moderate serpentinization/with talc contact, chlorite/biotitization altrenating intesity (85.2m, 85.6m actinolite alteration).Carbonatisation/hematite/weak potassic alteration. Weak fenitization, 86.4m-87.3m stronger Fe-carbonate patches.

Mineralization at 1% fine grasin Pyrite disseminated overall with up to 3% medium grian to fine grain Pyrite disseminated subhedral where Fe-carbonate.

Lower contact is graditional, fractured define.

85.00 86.00 V3F

Basalte hyper-magnésien

Ultramafic volcanics lower-contact (85m-86m, 86.6m-87.3m) to hypermagnesial basalt, dark brown to dark green, fine grain, aphanitic to altered.

86.60 87.30 V3F

Basalte hyper-magnésien

Ultramafic volcanics lower-contact (85m-86m, 86.6m-87.3m) to hypermagnesial basalt, dark brown to dark green, fine grain, aphanitic to altered.

85.00 85.20 ST; TC; BO; CL; HM; CB

Serpentinisation; Talcification; Biotitisation; Chloritisation; Hématisation;

Patchy moderate serpentinization/with talc, chlorite/biotitization alternating intensity (85.2m, 85.6m actinolite alteration).Carbonatization/hematite/weak potassic alteration. Weak fenitization, 86.4m-87.3m stronger Fe-carbonate patches.

85.20 85.60 AM

Amphibolitisation

Patchy moderate serpentinization/with talc, chlorite/biotitization alternating intensity (85.2m, 85.6m actinolite alteration).Carbonatization/hematite/weak potassic alteration. Weak fenitization, 86.4m-87.3m stronger Fe-carbonate patches.

85.60	86.40	CB; HM	
		carbonatization; Hématisation	
		Patchy moderate serpentinization/with talc, chlorite/biotitization alternating intensity (85.2m, 85.6m actinolite alteration).Carbonatization/hematite/weak potassic alteration. Weak fenitization, 86.4m-87.3m stronger Fe-carbonate patches.	
86.40	87.30	CB	
		carbonatization	
		Patchy moderate serpentinization/with talc, chlorite/biotitization alternating intensity (85.2m, 85.6m actinolite alteration).Carbonatization/hematite/weak potassic alteration. Weak fenitization, 86.4m-87.3m stronger Fe-carbonate patches.	
87.30	87.40	ST; TC; BO; CL	
		Serpentinisation; Talcification; Biotitisation; Chloritisation	
		Patchy moderate serpentinization/with talc, chlorite/biotitization alternating intensity.	
85.00	87.40	PY02	
		Pyrite 2%	
		Mineralization at 1% fine-grain pyrite disseminated overall with up to 3% medium-grain to fine-grain pyrite disseminated subhedral to euhedral where Fe-carbonate.	
85.00	87.40	FA	55
		Fracturé(e) 55°	
		<10% fractured with calcite filled fracturing at 50-55 degree to-core-axis	

From	To	Description
87.40	**95.60**	V3B AP
		Basalte; Aphanitique
		Basalt. Patchy magnetic, fine grained green to grey color, massive to aphanitic.Increasing in fracturingl with carbonate filled at approx 50 degree to core axis overall. 88m-88.3m one gabbroic basalt at 30 degree to core axis, carbonate/chlorite/amphibole/ filled fracturing, carbonate with semipervasive biotite/chl. Mineralized up to 2% medium grain pyrite blebs. 88.3m-88.6m sheared baslat at 30 degree to core axis with strong carbonatisation, Fe-carbonate patches, carbonate/chlorite/amphibole filled fractured.91.3m-91.9m unconsolidating core.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
87.00	88.00		V473105	0.0210	Au-ICP21	VO20094558
88.00	89.00		V473106	0.0510	Au-ICP21	VO20094558
89.00	90.00		V473107	0.0110	Au-ICP21	VO20094558
90.00	91.00		V473108	0.0070	Au-ICP21	VO20094558
91.00	92.00		V473109	0.0280	Au-ICP21	VO20094558
92.00	93.00		V473110	0.0200	Au-ICP21	VO20094558
93.00	94.00		V473111	0.0090	Au-ICP21	VO20094558
94.00	95.00		V473112	0.0110	Au-ICP21	VO20094558
95.00	96.00		V473113	0.0130	Au-ICP21	VO20094558

94.3m – 94.7m reworked flow breccia with one 2cm extensional carbonate/chlorite veining at 94.3 at 65degree to core axis. Strong carbonatisation with chlorite/ Fe-carbonate patches,hematite is moderate. Mineralization up ti 4% medium to fine grain Pyrite disseminated.Moderate to strong fenitization overall, with strong Fe-carbonate patches to fracture/veinilet filling, epidotization patches to bands(91m-91.2m).Lower contact is fractured and graditional.

87.40	88.00	CB; EP; HM **carbonatization; Épidotisation; Hématisation** Moderate to strong fenitization overall, with strong Fe-carbonate patches to fractureure/veinilet filling, epidotization patches to bands.
88.00	88.30	CB; CL; BO **carbonatization; Chloritisation; Biotitisation** 88m-88.3m one gabbroic basalt at 30 deg tca, carbonate/chlorite/amphibole/ filled fractureuring, carbonatized with semipervasive bio/chlorite.
88.30	88.60	CB; AM; CL **carbonatization; Amphibolitisation; Chloritisation** 88.3m-88.6m sheared baslat at 30 deg tca with strong carbonatization, Fe-carbonate patches, carbonate/chlorite/amphibole filled fractureured.
88.60	91.00	CB; EP; HM **carbonatization; Épidotisation; Hématisation** Moderate to strong fenitization overall, with strong Fe-carbonate patches to fractureure/veinlet filling, epidotization patches to bands.
91.00	91.20	CB; EP; HM; FK **carbonatization; Épidotisation; Hématisation; Altération en feldspath pot** Moderate to strong fenitization overall, with strong Fe-carbonate patches to fractureure/veinlet filling, epidotization patches to bands(91m-91.2m).
91.20	94.30	CB; HM; EP **carbonatization; Hématisation; Épidotisation** Moderate to strong fenitization overall, with strong Fe-carbonate patches to fractureure/veinlet filling, epidotization patches to bands.
94.30	94.70	CB; CL; HM **carbonatization; Chloritisation; Hématisation** Reworked flow breccia with one 2cm extensional carbonate/chlorite veining at 94.3 at 65 deg tca, Strong carbonatization with chlorite/ Fe-carbonate patches, Hematite is moderate.
87.40	88.00	PY00.5 **Pyrite 0.5%**

Trace pyrite

88.00	88.30	PY03	
		Pyrite 3%	
		Mineralized up to 2% medium-grain pyrite blebs	
88.30	94.30	PY00.5	
		Pyrite 0.5%	
		Trace pyrite	
94.30	94.70	PY04	
		Pyrite 4%	
		Mineralization up to 4% medium-grain to fine-grain pyrite disseminated	
94.70	95.60	PY00.5	
		Pyrite 0.5%	
		Trace pyrite	
88.30	88.60	CS	30
		Cisaillé(e) 30°	
		88.3m-88.6m sheared basalt at 30 degree to-core-axis	

From	To	Description
95.60	**102.60**	V3B CO
		Basalte 30°; Coussiné
		Basalt. Pillow flow, green color, fine grain, pillowed.Fracture ZONE: intense fracturing with an overall carbonate/epidote filled frctures at 75 degree to core axis and late S3? carbonate erratic to stockwork late fracturing. Dm size spaced selvages <1cm carbonate/chlorite/epidote filled selvages.98m-98.4m carbonate cemented flow breccia mineraized at 8% medium to fine grain Pyrite disseminated.Carbonate/chlorite/epidote package with weak to moderate biotite alteration overprinting. Hematite/Fe-carbonate patches to fracture filling throughout. Mineralized 0.5% Pyrite medium grain to cubes disseminated to fracture filling overall. Lower contact is 30 degree to core axis.
95.60	102.60	CB; CL; EP; BO; HM
		carbonatization; Chloritisation; Épidotisation; Biotitisation; Hématisation
		Carbonate/chlorite/epidote package with weak to moderate biotite alteration overprinting. Hematite/Fe-carbonate patches to fractureure

From	To	Len	SampleID	Au (ppm)	Method	Certificate
96.00	97.00		V473114	0.0160	Au-ICP21	VO20094558
97.00	98.00		V473115	0.0100	Au-ICP21	VO20094558
98.00	99.00		V473116	0.0280	Au-ICP21	VO20094558
99.00	100.00		V473117	0.0190	Au-ICP21	VO20094558
100.00	101.00		V473118	0.0620	Au-ICP21	VO20094558
101.00	102.00		V473119	0.0110	Au-ICP21	VO20094558
102.00	103.00		V473120	0.0200	Au-ICP21	VO20094558

filling throughout.

95.60 98.00 PY00.5

Pyrite 0.5%

Trace pyrite

98.00 98.40 PY08

Pyrite 8%

98m-98.4m carbonate cemented flow breccia mineraized at 8% medium-grain to fine-grain pyrite disseminated

98.40 102.60 PY00.5

Pyrite 0.5%

Trace pyrite

95.60 102.60 FA 75

Fracturé(e) 75°

FRACTURE ZONE: intense fracturing with an overall carbonate/epidote filled frctures at 75 degree to-core-axis and lateS3? calcite erratic to stockwork late fracturing.

From	To	Description
102.60	**106.66**	V3F; AP
		Basalte hyper-magneticnésien 30°; Aphanitique
		Basalt to increasily hypermagnesian basalt. Green color, fine grain, aphanitic. Strong fracturing with <5% carbonate filled fractures at 50 degree to core axis, <5% carbonate filled tension gashes,80% microbrecciated.105.7m-105.8m one 2-3cm hematite/carbonate/K-feldspar altered syenite injection at 75 degree to core axis.Carbonatisation with strong Fe-carbonate patches to stringers/banding, carbonateoate/hematite/moderate k-feldspar patches, fenitization.Strong biotite/chlorite replacing with carbonate/actinolite interganular.Mineralized up to 1% medium grain Pyrite disseminated. Lower contact is 30 degree to core axis, microbreccia controlled.
105.70	105.80	I2D; PO
		Syénite; Porphyrique 75°
		105.7m-105.8m one 2-3cm hematite/carb/basalt/k-feldspar altered syenite injection at 75 degree to-core-axis.
102.60	106.66	CB; HM; BO; AM; FK
		carbonatization; Hématisation; Biotitisation; Amphibolitisation; Altératio
		Carbonatization with strong Fe-carbonate patches to stringers/banding, carbonate/hematite/moderate k patches, fenitizationstrong bio/chlorite

From	To	Len	SampleID	Au (ppm)	Method	Certificate
103.00	104.00		V473122	0.0210	Au-ICP21	VO20094558
104.00	105.00		V473123	0.0160	Au-ICP21	VO20094558
105.00	106.00		V473124	0.0250	Au-ICP21	VO20094558
106.00	107.00		V473125	0.0180	Au-ICP21	VO20094558

replacing with calcite/actinolite interganular.

102.60 106.66 PY01

Pyrite 1%

Mineralized up to 1% medium-grain disseminated.

102.60 106.66 FA50

Fracturé(e)50

strong fracturing with <5% calcite filled fractures at 50 degree to-core-axis, <5% calcite filled tension gashes, 80% microbrecciated

From	To	Description
106.66	**108.70**	V3F; AP

Basalte hyper-magneticnésien 60°; Aphanitique

Ultramafic volcanics contact to hypermagnesian basalt (minor of talc contact, elevated chromium values).Fine grain dark brown to dark green, aphanitic.Sheared S2 at 30 degree with <20% carbonate filled erratic fracturing,with flat to core axis carbonate filled S3.

One carbonate unit at 107.64m-107.74m at 75 degree to core axis.

108m-108.7m fracture Zone, basalt with <40% altered syenite fragments to injection, green to reddish aphanitic, intense fracturing. 108.4m-108.7m re-worked breccia, syenite fragments elongated to angular with carbonate cement, carbonate fragments Strong fenitization, hematite/carbonate/potassic alteration with strong Fe-carbonate patches increasing.Mineralization , pyrite is disseminated, 0.5%.Lower contact at 60 degree to core axis, sharp.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
107.00	108.00		V473126	0.0170	Au-ICP21	VO20094558
108.00	109.00		V473127	0.0070	Au-ICP21	VO20094558

106.66 108.40 ST; TC; BO; CL

Serpentinisation; Talcification; Biotitisation; Chloritisation

Strong bio/chlorite replacingwith calcite/actinolite interganular.

108.40 108.70 HM; CB; FK

Hématisation; carbonatization; Altération en feldspath potassique

Strong fenitization, hematite/carbonate/potassic altertion with strong Fe-carbonate patches increasing.

106.66 108.70 PY01

Pyrite 1%

Mineralization at 1% fine-grain to pyrite blebs to fracture filling specularite overprinting,

106.66 108.00 CS 30

Cisaillé(e) 30°

sheared S2 at 30 degree with <20% calcite filled erratic fracturing,with flat to-core-axis calcite filled S3

108.00	108.70	FA	

Fracturé(e)

108m-108.7m Fracture Zone, basalt with <40% altered syenite fragments to injection, green to reddish aphanitic, intense fracturing,

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
108.70	**110.20**	I2D V3B AP	109.00	110.00		V473128	0.0080	Au-ICP21	VO20094558

Syénite avec 25 à 50% de basalte 40°; Aphanitique

Syenite with 50% basalt.Intense alteration, reddish to pinkish, aphanitic.<30% carbonate filled fracturing at 35-40 degree to core axis with <10% late mm size syenite injection.Strong carbonatisation overprinting, hematite/Fe-carbonate increasing sericitization at lower contact (110m-110.20m).

Mineralization at 1-2% fine grain to Pyrite blebs to fracture filling specularite overprinting.Lower contact at 40 degree to core axis.

108.70	110.20	BO; CL	

Biotitisation; Chloritisation

Strong bio/chlorite replacingwith calcite/actinolite interganular.

108.70	110.20	PY02	

Pyrite 2%

Mineralization at 1-2% fine-grain to pyrite blebs to fracture filling specularite overprinting,

108.70	110.20	FA	40

Fracturé(e) 40°

<30% calcite filled fracturing at 35-40 degree to-core-axis with <10% late mm size syenite injection

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
110.20	**111.20**	I2D; PO **Syénite 40°; Porphyrique** Porphyritic syenite. Pink color, medium grain. disseminated and specular hematite, patchy iron carbonate, pyrite is disseminated, 0.5%.Lower contact is 40 degree to core axis.	110.00	111.00		V473129	0.0100	Au-ICP21	VO20094558
110.20	111.20	CB **carbonatization** Fe-Carbonate.							
110.20	111.20	PY00.5; HS **Pyrite 0.5%; Spécularite** pyrite is disseminated, 0.5%.							
111.20	**115.70**	V3F; V4; AP **Basalte hyper-magneticnésien; volcanics contactanique ultramafique; Aphani** Hypermagnesian Basalt with <40% Ultramafic volcanics contact envelope with <30% basalt with carbonate altered syenite fragments. Dark green to green, with reddish sections, fine grain, aphanitic. Strongly fractured with an average fracturing at 40 degree to core axis S2 and <1 cm S3 en-echelon to short stigmoidal tension gashes at 20-40 degree to core axis.Ultramafic appears strongly foliated at 50 degree to core axis (111.2m-112.5m UM envelope only). 111.3m-112.1m basalt with <50% carbonate altered syenite fragments to mm size carbonate altered injections, carbonate stronlgy fractured (possibe re-worked flow breccia) strong fenitization, at 40 degree to core axis with strong carbonatisation, 111.3m strong Fe-carbonate patches.Mineralized at 2-3% medium to fine grain Pyrite disseminated to blebs. Lower contact is at 40 degree to core axis. 112.2m-113.3m basalt with <40% carbonate altered syenite fragments mm size carbonateonat ealtered feldspar, with strong amphibole overprinting patches, strong fenitization, hematite. Mineralized at 8% medium grain to fine grain Pyrite disseminated to blebs. 114.6m-114.75 basalt with <40% carbonate altered syenite injections to	111.00	112.00		V473130	0.0080	Au-ICP21	VO20094558
			112.00	113.00		V473131	0.0060	Au-ICP21	VO20094558
			113.00	114.00		V473132	0.0030	Au-ICP21	VO20094558
			114.00	115.00		V473133	0.0150	Au-ICP21	VO20094558
			115.00	116.00		V473134	0.0070	Au-ICP21	VO20094558

fragments at 40 degree to core axis carbonate filled fracturing at 60 degree to core axis, host is sheared carbonate altered basalt (elevated medium grain) at 30 degree.

115.3m one 4cm carbonate/amphibole altered syenite with 50% basalt digestion intense fenitization with Fe-carbonate mm size atches. Mineralized 5% fine to very fine grain Pyrite disseminated with 4-5% specularite.

Fenitization overall with strong biotite/amphibole patches with serpentinization/talc contact banding (UM), hematitization in and around altered syenite fragments to zoning. Up to 1% medium to fine grain Pyrite disseminated overall.Lower contact is graditional.

114.60 114.75 V3B I2D

Basalte avec 25 à 50% de syénite 60°

Basalt with <40% carbonate altered syenite injections to fragments at 40 degree to-core-axis, carbonate filled fracturing at 60 degree to-core-axis, host is sheared carbonate altered basalt(elevated medium-grain) at 30 degree to-core-axis.

115.30 115.34 I2D V3B

Syénite avec 25 à 50% de basalte

115.3m one 4cm carbonate/amphibole altered syenite with 50% basalt digestion intense fenitization with Fe-carbonate mm size atches, Mineralized 5% fine-grain to fine-grain pyrite disseminatedwith 4-5% specularite.

111.20 112.10 CB; FK; HM

carbonatization; Altération en feldspath potassique; Hématisation

Basalt with <50% carbonate altered syenite fragments to mm size carbonate altered injections, calcite stronlgy fractureured(possibe re-worked flowbreccia) strong fenitization, at 40 deg tca with strong carbonatization, 111.3m strong Fe-carbonate patches, mineralized at 2-3% medium-grain to fine-grain pyrite disseminated to blebs. LC 40 deg tca.

112.10 113.30 HM; CB; AM; FK

Hématisation; carbonatization; Amphibolitisation; Altération en feldspath

Basalt with <40% carbonate altered syenite fragments mm size carbonate ealtered feldspar, with strong amphibole overprinting patches, srong fenitization, hematitization. Mineralized at 8% medium-grain to fine-grain pyrite disseminated to blebs.

113.30 114.60 BO; ST; TC; HM; AM

Biotitisation; Serpentinisation; Talcification; Hématisation; Amphibolitisat

Fenitization overall with strong biotite/amphibole patches with serpentinization/talc banding (UM), hematitzation in and around altered syenite fragments to zoning.

114.60	114.75	FK; CB; HM **Altération en feldspath potassique; carbonatization; Hématisation** Fenitization.	
114.75	115.70	HM; BO; ST; TC **Hématisation; Biotitisation; Serpentinisation; Talcification** Fenitization overall with strong biotite/amphibole patches with serpentinization/talc banding (UM), hematitization in and around altered syenite fragments to zoning.	
111.20	112.10	PY03 **Pyrite 3%** mineralized at 2-3% medium-grain to fine-grain pyrite disseminated to blebs. LC 40 deg tca	
112.10	113.30	PY08 **Pyrite 8%** Mineralized at 8% medium-grain to fine-grain pyrite disseminated to blebs	
113.30	115.30	PY01 **Pyrite 1%** up to 1% fine-grain pyrite disseminated overall.	
115.30	115.40	PY05; HS05 **Pyrite 5%; Spécularite 5%** 115.3m one 4cm carbonate/amphibole altered syenite with 50% basalt digestion intense fenitization with Fe-carbonate mm size patches, Mineralized 5% fine-grain to very-fine-grain pyrite disseminated with 4-5% specularite.	
115.40	115.70	PY01 **Pyrite 1%** up to 1% fine-grain pyrite disseminated overall.	
111.00	115.70	FA **Fracturé(e) 40°** strongly fractured with an average fracturing at 40 degree to-core-axis S2 and <1 cm S3 en-echelon to short sigmoidal tension gashes at 20-40 degree to-core-axis.	40

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
115.70	**118.50**	I2D V3B AP **Syénite avec 25 à 50% de basalte 30°; Aphanitique** Sheared syenite with intense hypermagnesian basalt digestion.Pseudo porphyritic, to altered, medium grain to aphanitic. Fractured unit at 45 degree to core axis, sheared at 30 degree to core axis.Carbonate/biotite/hematite with moderate potassic alteration. Mineralization at 5-10% increasing towards Lower contt. Lower contact at 30 degree to core axis defined.	116.00	117.00		V473135	**0.1290**	Au-ICP21	VO20094558
			117.00	118.00		V473137	**0.3690**	Au-ICP21	VO20094558
			118.00	119.00		V473138	0.0690	Au-ICP21	VO20094558

115.70	118.50	CB; BO; HM; FK **carbonatization; Biotitisation; Hématisation; Altération en feldspath pota** Carbonatized/biotte/hematite with moderate potassic alteration.	
115.70	118.50	PY05 **Pyrite 5%** Mineralization at 5-10% increasing towards LC	
115.70	118.40	CS; FA **Cisaillé(e) 45°; Fracturé(e)** fractured unit at 45 degree to-core-axis, sheared at 30 degree to-core-axis	45
118.40	118.50	CS **Cisaillé(e) 45°** shear at 45 degree to-core-axis marks up lower contact	45

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
118.50	**120.60**	V3B AP **Basalte; Aphanitique 45°** Basalt. Magnetic, green to reddish color, fine frian, aphanitic. Weakly fractured at 35 degree to core axis, carbonate/chlorite filled fractures, with one 2 cm shear at the Lower contactwith stromng fenitization.Mineralized up to 1% fine grainine grain Pyrite disseminated.Lower contact at 45 degree to core axis shear defined Mineralized at 5% medium to fine grain Pyrite disseminated.	119.00	120.00		V473139	0.0290	Au-ICP21	VO20094558
			120.00	121.00		V473140	0.0330	Au-ICP21	VO20094558

118.50	120.60	CB; HM; FK **carbonatization; Hématisation; Altération en feldspath potassique** with strong fenitization,.	

118.50	120.50	PY01 **Pyrite 1%** mineralized at up to 1% fine-grain pyrite disseminated
120.50	120.60	PY05; PY **Pyrite 5%; Pyrite** contact mineralization

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
120.60	**124.00**	V3B AP **Basalte; Aphanitique 60°** Basalt, gabbroic, magnetic, with <10% mm size syenite injection.Increse of feldspar, green to dark green color, strongly fractured, 50 degree to core axis S2, 35 degree to core axis S3124m one 3cm carbonate unit at 60 degree to core axis, marking up Lower contact.Strong fenitization strong hematitization alternating, Leucoxene alteration.Mineralized at 3-4% fine to very fine grain Pyrite disseminated to fracture controlled overall with up to 15% pyrite fracture filling to blebs carbonate syenite overprinting. Lower contact at 60 degree to core axis litho controlled.	121.00	122.00		V473141	**0.6640**	Au-ICP21	VO20094558
			122.00	123.00		V473142	**0.1550**	Au-ICP21	VO20094558
			123.00	124.00		V473143	0.0270	Au-ICP21	VO20094558

120.60	124.00	FK; CB; HM; LX **Altération en feldspath potassique; carbonatization; Hématisation; Leuco** Strong fenitization strong hematitzation alternating, leucoxene alteration.
120.60	124.00	PY15 **Pyrite 15%** Mineralized at 3-4% fine-grain to very-fine-grain pyrite disseminated to fracture controlled overall with up to 15% pyrite fracture filling to blebs carbonate syenite overprinting.
120.60	124.00	FA 50 **Fracturé(e) 50°** strongly fractured, 50 degree to-core-axis S2, 35 degree to-core-axis S3

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

124.00 132.60 V3B AP

Basalte 30°; Aphanitique

Basalt with <10% carbonate altered syenite.Magnetic, reddish to green color, aphanitic.Strongly fractured 30 degree to core axis to erratic.

124.2m-124.8m one syenite with <40% basalt digestion strong K-feldspar/hematite/carbonate overall with strong biotite/actinolite around contact. Mineralized at 5% medium to fine grain Pyrite disseminated to blebs.

130.7m-130.9m basalt digestion with syenite fragments, aphanitic, intense fracturing, strong fenitization with biotite/actinolite. Mineralized at 4-5% fine grainto veryfine grain Pyrite, fracture filling to disseminated.

131.6m-131.9 syenite with intense basalt digestion, magnetic, aphanitic, strong carbonatisation overprint with strong fenitization with strong potassic alternating, biotite/actinolite. Mineralized at 8% medium to fine grain Pyrite disseminated.

132.6m-132.8m one carbonateoantite unit at 30 degree to core axis. Marks up lower contact.Fenitization/carbonate.129.9-130.1 strong carbonatisation overprinitng, strong fenitization, biotite/actinolte semipervasive.

132.1m-132.6m strong contactitzation proximate to carbonate, biotite/chlorite/actinolite.Lower contact at 30 degree to core axis.

124.00 124.03 I4Q

Carbonatite 60°

124m one 3cm carbonatite unit at 60 degree to-core-axis, marking to lower-contact.

124.20 124.80 I2D V3B

Syénite avec 25 à 50% de basalte

124.2m-124.8m one syenite with <40% basalt digestion strong K-feldspar/ hematite/carbonate overall with strong bio/actinolite around contact. Mineralized at 5% medium-grain to fine-grain blebs.

130.70 130.90 V3B I2D

Basalte avec 25 à 50% de syénite

130.7m-130.9m basalt digestion with syenite fragments, aphanitic, intense fracturing, strong fenitization with bio/actinolite. Mineralized at 4-5% fine-grain to fine-grain pyrite fracture filling to disseminated.

124.00	125.00	V473144	0.0170	Au-ICP21	VO20094558
125.00	126.00	V473145	0.0080	Au-ICP21	VO20094558
126.00	127.00	V473146	0.0100	Au-ICP21	VO20094558
127.00	128.00	V473147	0.0080	Au-ICP21	VO20094558
128.00	129.00	V473148	0.0180	Au-ICP21	VO20094558
129.00	130.00	V473149	0.0160	Au-ICP21	VO20094558
130.00	131.00	V473150	0.0110	Au-ICP21	VO20094558
131.00	132.00	V473151	0.0030	Au-ICP21	VO20094558
132.00	133.00	V473153	0.0020	Au-ICP21	VO20094558

131.60	131.90	I2D V3B **Syénite avec 25 à 50% de basalte** 131.6m-131.9 syenite with intense basalt digestion, MAG, aphanitic, strong carbonatization overprint with strong fenitization with strong potassic alternating, Bio/actinolite. Mineralized at 8% medium-grain to fine-grain disseminatedpyrite.
124.00	124.20	CB **carbonatization** Carbonatized
124.20	124.80	FK; HM; CB; BO; AM **Altération en feldspath potassique; Hématisation; carbonatization; Biotiti** Syenite with <40% basalt digestion strong k-feldspar/hematite/carb overall with strong bio/actinolite around contact. Mineralized at 5% medium-grain to fine-grain blebs.
124.80	129.90	CB; HM **carbonatization; Hématisation** Carbonatized moderate fenitization.
129.90	130.10	CB; BO; HM; FK **carbonatization; Biotitisation; Hématisation; Altération en feldspath pota** Strong carbonatization overprinitng, strong fenitization, bio/actinolte semipervasive.
130.10	130.70	CB; HM **carbonatization; Hématisation** Carbonatization moderate fenitization.
130.70	130.90	FK; CB; HM; BO; AM **Altération en feldspath potassique; carbonatization; Hématisation; Biotiti** Basalt digestion with syenite fragments, aphanitic, intense fractureuring, strong fenitization with bio/actinolite. Mineralized at 4-5% fine-grain to vfine-grain pyrite fracture filling to disseminated.
130.90	131.60	CB **carbonatization** Carbonatization moderate fenitization.
131.60	131.90	CB; HM; FK; BO; AM **carbonatization; Hématisation; Altération en feldspath potassique; Biotiti** Syenite with intense basalt digestion, magnetite, aphanitic, strong carbonatization overprint with strong fenitization with strong potassic alternating, Bio/actinolite. Mineralized at 8% medium-grain to fine-grain disseminated pyrite .

131.90	132.10	CB **carbonatization** Carbonatization moderate fenitization.	
132.10	132.60	CB; BO; CL **carbonatization; Biotitisation; Chloritisation** 132.1m-132.6m strong calcitzation proximate to carbonatite, bio/chlorite/actinolite.	
124.00	124.80	PY05 **Pyrite 5%** Mineralized at 5% medium-grain to fine-grain blebs.	
124.80	130.70	PY00.5 **Pyrite 0.5%** trace to 0.5% fine-grain pyrite disseminated.	
130.70	130.90	PY05 **Pyrite 5%** Mineralized at 4-5% fine-grain to very-fine-grain pyrite fracture filling to disseminated	
130.90	131.60	PY00.5 **Pyrite 0.5%** trace pyrite	
131.60	131.90	PY08 **Pyrite 8%** Mineralized at 8% medium-grain to fine-grain disseminated pyrite .	
131.90	132.60	PY01 **Pyrite 1%** Up to 1% fine-grain pyrite disseminated	
124.00	132.60	FA **Fracturé(e) 30°** strongly fractured 30 degree to-core-axis to erratic	30

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
132.60	**133.60**	V3B I2D; AP **Basalte avec 25 à 50% de syénite 40°; Aphanitique** Basalt with intense~50 altered syenite fragments to injection.Grey to pinkish color, aphanitic.Preferred fabric at approx 40 degree to core axis, with microfractured. Strong carbonatisation/biotite/chlorite alteration package with actinolite? red Fe-carbonate patches alternating with carbonate/potassic alteration patches, moderate hematite.Mineralization at 4% medium to fine grain Pyrite disseminated to blebs.Lower contact at 40 degree to core axis.	133.00	134.00		V473154	0.0090	Au-ICP21	VO20094558
132.60	132.80	I4Q **Carbonatite 30°** 132.6m-132.8m one carbonatite unit at 30 degree to-core-axis. Marks up lower-contact							
132.60	133.60	CB; BO; FK **carbonatization; Biotitisation; Altération en feldspath potassique** Strong carbonatization/bio/chlorite with actinoite? red Fe-catbonate patches aletrnating with carbonate/potass'c patches, modereate Hem'd.							
132.60	133.60	PY04 **Pyrite 4%** Mineralization at 4% medium-grain to fine-grain pyrite disseminated to blebs							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
133.60	**135.40**	V3B I2D; AP **Basalte avec 25 à 50% de syénite; Aphanitique 20°** Basalt with <40% altered syenite fragments.Grey to reddish color patches, aphanitic.<20% fracturing at 35-40 degree to core axis, with chlorite/carbonate/hematite filled S2 fracturing at 35 -40 degree to core axis to erratic contact S3 to 25 degree to core axis, terminating. Sheared at 133.6m-134.6m at 40degree to core axis with on syenite injections at 133.8m at 25degree to core axis. Carbonate/hematite with patchy moderate potassic alteration with patchy stronger fenitization. Blue amphibole in and around syenite contact. Mineralization at 0.5% Pyrite stringers to fracture filling. Lower contact erratic to possibly 20 degree to core axis.	134.00	135.00		V473155	0.0180	Au-ICP21	VO20094558
133.80	133.90	I2D; PO **Syénite; Porphyrique 25°** One syenite injection at 133.8m at 25 degree to core axis							

133.60	135.40	CB; HM	
		carbonatization; Hématisation	
		Carbonate/hematite with patchy moderate potassic alteration with patchy stronger fenitization. Blue amphibole in and around sye contact.	
133.60	136.80	PY00.5	
		Pyrite 0.5%	
		Mineralization at 0.5% pyrite stringers to fracture filling	
133.60	134.60	CS	40
		Cisaillé(e) 40°	
		Sheared at 133.6m-134.6m at 40 degree to-core-axis with on syenite incetions at 133.8m at 25 degree to-core-axis,	
134.60	135.40	FA	40
		Fracturé(e) 40°	
		<20% fracturing at 35-40 degree to-core-axis, with chlo/carbonatebonateonate/hematite filled S2 fracturing at 35 -40 degree to-core-axis to erratic calcte fillee S3 to 25 degree to-core-axis terminating. S	

From	To	Description
135.40	**136.97**	V3B I2D; AP
		Basalte avec 25 à 50% de syénite 45°; Aphanitique
		Sheared Basalt with <50% syenite carbonate bleached.Beige color, aphanitic.Sheared at approx 50 degree to core axis, with elongated to boudinaged cm size carbonate syenite fragments to fully streched altered syenite mm size injections(135.4m-136.1m). 136.1m-136.27m altered fenitized syenite at 50 degree to core axis, with patchy Fe-cabonate 136.27m-136.97m intense carbonate altered syenite(basalt?) faint porphyritic,carbonate filled microfractured, erratic (S3?) elongation to boudinage fragments (older syenite?/basalt), sheared overall at 30 degree to core axis. 136.8m-136.m one hypermagnesian Basalt/Ultramafic unit at 45 degree to core axis with brecciared contacts serpentine/chlorite/hematite/biotite with <1% pyritecontact minerlaization. Marks up Lower contact. Overall Lower contact is at 45 degree to core axis.
136.10	136.27	I2D; PO
		Syénite 50°; Porphyrique
		136.1m-136.27m altered fenitized syenite at 50 degree to-core-axis, with

From	To	Len	SampleID	Au (ppm)	Method	Certificate
135.00	136.00		V473156	0.0220	Au-ICP21	VO20094558
136.00	137.00		V473157	0.0290	Au-ICP21	VO20094558

patchy Fe-carbonate.

136.27 136.80 I2D; PO

Syénite; Porphyrique

136.27m-136.97m intense carbonatisation altered syenite(basalt?) faint poprhyric, lower-contact filled microfractured, erratic (S3?) elongation to boudinage fragments (older syenite?/basalt), sheared overall at 30 degree to-core-axis.

136.80 136.97 V3F; V4; AP

Basalte hyper-magnésien; Volcanique ultramafique 45°; Aphanitique

One medium-grain Basalt/Ultramafic unit at 45 degree to-core-axis with brecciared contacts serpentine/chlorite/hematite/biotite with <1% pyrite contact mineralization. Marks up lower-contact.

135.40 136.10 CB

carbonatization

Carbonate bleached.

136.10 136.27 FK; CB; HM

Altération en feldspath potassique; carbonatization; Hématisation

136.1m-136.27m altered fenitized syenite at 50 deg tca, with patchy Fe-carbonate.

136.27 136.80 CB

carbonatization

Carbonatized with with patchy Fe-carbonate.

136.80 136.97 BO; ST; CB; HM

Biotitisation; Serpentinisation; carbonatization; Hématisation

One medium-grain Basalt/Ultramafic unit at 45 deg tca with brecciared contacts serpentine/chlorite/hematite/biotite with <1% pyrite contact mineralization. Marks up LC.

135.40 136.10 CS 50

Cisaillé(e) 50°

sheared at approx 50 degree to-core-axis, withelongated to boudinaged cm size carbonate syenite fragments to fully streched altered syenite mm size injections

136.27 136.97 CS 30

Cisaillé(e) 30°

Intense carbonatisation altered syenite (basalt?) faint porph'c,calcite filled microfractured, erratic (S3?) elongation to boudinage fragments (older syenite?/basalt), sheared overall at 30 degree to-core-axis

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

136.97 150.00 I2D; PO

Syénite 40°; Porphyrique

Syenite.

Orangeish to beige color, porphyritic texture, medium granulation, equigranular to subhedral feldspars.136.6m-146.2m. Monzonite-syenite with <5% quartz, Increase of palgioclase and quartz around 136.6m, sericitification, beige color porphyritic texture, medium granulation.Moderate fracturing carbonate/silicification filled at high angle to core axis, 138.6m-138.7, 139.3m-139.4m <10% silica flooding irregular. Mineralized at 1-2% fine grain Pyrite blebs(possible younger syenite pulsation.

144m-149.2m increase of fracturing up to 20% with silica filled fractures at 30 degree to core axis. Mineralization up to 5% fine grain Pyrite stringers to fracture filling to silica flooding overprints.

149.2m-149.4m strong sheared basalt at 50 degree to core axis, intense carbonate/sericite/Fe-carbonate replacing. Mineralized 1-2% Pyrite stringres.Silicification alternating intensity to silica flooding bands overall, with sericite flakes to intergranular, potassic alteration.147.3m down apex increase of Fe-carbonate with silicca flooding alternating.Lower contact is shear controlled at 40 degree to core axis.

149.20 149.40 V3B; CS

Basalte; Cisaillé

Strong sheared basalt at 50 degree to-core-axis, intense carbonate/sericite/Fe-carbonate replacing epidote. Mineralized 1-2% pyrite stringres.

138.60 138.70 SI

Silicification

138.6m-138.7, 139.3m-139.4m <10% silica flooding irregular mineralized at 1-2% fine-grain pyrite blebs.

139.30 139.40 SI

Silicification

139.3m-139.4m <10% silica flooding irregular mineralized at 1-2% fine-grain pyrite blebs.

139.40 144.00 SR; SI

Séricitisation; Silicification

Silicification alternating intensity to silica flooding bands overall, with sericite flakes to intergranular, potassic alteration.

137.00	138.00	V473158	**0.3950**	Au-ICP21	VO20094558
138.00	139.00	V473159	**0.8580**	Au-ICP21	VO20094558
139.00	140.00	V473160	**0.1980**	Au-ICP21	VO20094558
140.00	141.00	V473161	**0.1000**	Au-ICP21	VO20094558
141.00	142.00	V473162	**0.2180**	Au-ICP21	VO20094558
142.00	143.00	V473163	**0.3030**	Au-ICP21	VO20094558
143.00	144.00	V473164	**1.3650**	Au-ICP21	VO20094558
144.00	145.00	V473165	**0.9690**	Au-ICP21	VO20094558
145.00	146.00	V473166	**0.5740**	Au-ICP21	VO20094558
146.00	147.00	V473167	**0.7020**	Au-ICP21	VO20094558
147.00	148.00	V473168	**0.2870**	Au-ICP21	VO20094558
148.00	149.00	V473170	**0.1750**	Au-ICP21	VO20094558
149.00	150.00	V473171	**0.3870**	Au-ICP21	VO20094558

144.00 149.20 SI

Silicification

Increase of fractureuring up to 20% with silica filled farctures at 30 deg tca, mineralization up to 5% fine-grain pyrite stringers to fractureure filling to silica flooding overprints.

149.20 149.40 CB; SR

carbonatization; Séricitisation

Strong sheared basalt at 50 deg tca, intense carbonate/sericite/Fe-carbonate replacing, mineralized 1-2% pyrite stringres.

149.40 150.00 CB; SI

carbonatization; Silicification

Fe Carbonate with silicification patches.

136.80 138.60 PY01

Pyrite 1%

medium-grain Basalt/Ultramafic unit at 45 deg tca with brecciared contacts serpentine/chlorite/hematite/biotite with <1% pyrite contact minerlaization. Marks up LC

138.60 138.70 PY02

Pyrite 2%

<10% silica flooding iregular minerlaized at 1-2% fine-grain pyrite blebs

138.70 139.30 PY01

Pyrite 1%

trace to 1% pyrite

139.30 139.40 PY02

Pyrite 2%

139.3m-139.4m <10% silica flooding iregular mineralized at 1-2% fine-grain pyrite blebs

139.40 144.00 PY02

Pyrite 2%

minerlaized at 1-2% fine-grain pyrite blebs

144.00 149.20 PY05

Pyrite 5%

mineralization up to 5% fine-grain pyrite stringers to fracture filling to silica flooding overprints.

149.20 149.40 PY02

Pyrite 2%

mineralized 1-2% pyrite stringres.

149.40	150.00	PY01	
		Pyrite 1%	
		mineralized at 1% fine-grain pyrite blebs	
144.00	149.20	FA	30
		Fracturé(e) 30°	
		increase of fracturing up to 20% with silica filled fractures at 30 degree to-core-axis, mineralization up to 5% fine-grain pyrite stringers to fracture filling to silica flooding overprints.	
149.20	149.40	CS	50
		Cisaillé(e) 50°	
		strong sheared basalt at 50 degree to-core-axis, intense carbonate/sericite/Fe-carbonate replacing, minerlaized 1-2% pyrite stringers.	

From	To	Description
150.00	**152.10**	I2D V3B AP; PO
		Syénite avec 25 à 50% de basalte 30°; Aphanitique; Porphyrique
		Sheared altered syenite with late altered basalt digestion melange(possible tuff?).Carbonate bleached, beige, aphanitic,(same package as interval:135.4m-136.9m).Silica/carbonate filled erratic fracturing increasing, sheared at approx 45-50 degree to core axis, elongated to boudinaged cm size carbonate syenite fragments to fully streched altered syenite mm size injections(151.4m-152.1m).Strong carbonate/sericitization/Fe-carbonate patches with locally carbonate/hematite/K-feldspar alteration patches (late syenite fragments).Strong shearing at 151.9m-152.1m at 30 degree to core axis with mm size mylonite banding concordant. Marks up lower contact.Mineralized up to 1% fine grain pyrite stringers overall.150.0 – 150.2 3-5% pyrite sheared controlled contact Mineralization.Overall lower contact is at 30 degree to core axis.
150.00	151.90	CB; SR; HM
		carbonatization; Séricitisation; Hématisation
		Strong carbonatization/sericitization/Fe-carbonate patches with locally carbonate/hematite/K alteration patches.
151.90	152.10	CB; SR; HM; FK
		carbonatization; Séricitisation; Hématisation; Altération en feldspath pot
		Strong carbonatization/sericitization/Fe-carbonate patches with locally carbonate/hematite/K alteration patches (late syen frags).
150.00	150.20	PY05
		Pyrite 5%
		3-5% pyrite sheared controlled contact mineralization

From	To	Len	SampleID	Au (ppm)	Method	Certificate
150.00	151.00		V473172	0.0460	Au-ICP21	VO20094558
151.00	152.00		V473173	0.0640	Au-ICP21	VO20094558

150.20	152.10	PY01 **Pyrite 1%** Mineralized up to 1% fine-grain pyrite stringers overall	
151.90	152.10	CS **Cisaillé(e) 30°** Strong shearing at at 30 degree to-core-axis with mm size Mylonite banding concordant Marks up LC	30

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
152.10	**153.00**	V3B I2D; AP **Basalte avec 25 à 50% de syénite; Aphanitique** Sheared Basalt with <50% syenite.Carbonate bleached, magnetic (152.1m0152.4m) beige, to dark reddish lower unit, aphanitic, 50% RQD.Erratic fracturing, sheared at approx 50 degree to core axis, elongated to boudinaged cm size carbonate altered syenite fragments. Altered fenitized syenite at 50 degree to core axis, with patchy Fe-cabonate.Strong carbonatisation/Fe-carbonatisation with increasing to intense fenitization/Fe carbonatisation alternating (152.5m-153m).Mineralized at 1-2% fine grain to very fine grain pyrite disseminated overall with 153.0 – 153.1 3-5% pyrite contact Mineralization.Lower contact is litho controlled heavily fractured with 60% silica flooding. 152.5m-153m Unconsolidated core.	152.00	153.00		V473174	**0.1590**	Au-ICP21	VO20094558
152.10	152.50	CB; HM **carbonatization; Hématisation** Strong Carbonatization/Fe-carbonatization.							
152.50	153.00	HM; CB; FK **Hématisation; carbonatization; Altération en feldspath potassique** Incerasing to intense fenitization/Fe carbonatization alternating (152.5m-153m).							
152.10	153.00	PY02 **Pyrite 2%** Mineralized at 1-2% fine-grain to very-fine-grain pyrite disseminated overall							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

153.00 159.12 I2D V3B BX; PO

Syénite avec 25 à 50% de basalte 20°; Brèche; Porphyrique

Brecciated syenite with <40% basalt digestion.Orangeish, to reddish, brecciated to aphanitic, porphyritic.Strong to heavily fractured with silica/Fe-carbonate filled fracturing erratic to carbonate filled S3 at 20 degree to core axis, with <1cm ling en-echellon S3 at 50 degree to core axis.

153m-153.5m re-worked breccia (Douay Tectonic Zone) patchy magnetic, at 30 degree to core axis with silica flooding cement, subrounded syenite/mafic fragments, fractured, strong silicification/ potassic/Fe-carbonate alternating with strong hematite patches. Mineralized up to 8% fine grain to very fine grain pyrite stringers fracture filling to disseminated, patchy magnetic, lower contact at 30 degree to core axis.

154.6m-154.9m re-worked breccia at 50 degree to core axis, fractured, with strong silicification to flooding/Fe-carbonate cement, angular mafic fragments with strong hematite/silica/Fe-carbonate/K-feldspar. Mineralized 3% fine grain to very fine grain Pyrite/specularite fracture filling to stringers.

155.6m-155.7m brecciated Fe-carbonate/hematite cemented melange syenite/basalt with 1-2% fine grain Pyrite/specularite stringers to blebs.

156.5m-156.7m Breccia with Fe-carbonate/sericite cement. Mineralized at 1% fine grain pyrite stringers.

156.7m-157.12m Basalt with <30% altered syenite fragments/injections, magnetic, strong silicification/carbonate/hematite with patchy potassc alteration. Chlorite/amphibole (actinolite) stringer to mm size patches. Mineralized up to 8% fine grain to very fine grain pyrite stringers, specualrite.

158.6m 2cm carbonate unit at 30 degree to core axis.

158.8m-159.1m strong fenitized patches with hematite alteranting, minerlaization up to 10% fine grain to very fine grain pyrite disseminated contact minerlaization.Lower contact at 20 degree to core axis litho controlled.

158.60 158.70 I4Q

Carbonatite 30°

158.6m 2cm carbonatite unit at 30 degree to-core-axis.

153.00 155.60 SI; FK; CB; HM

Silicification; Altération en feldspath potassique; carbonatization; Hémati

Strong siicification/ potassic/Fe-carbonate alternating with strong hematite patches.

153.00	154.00	V473175	0.0510	Au-ICP21	VO20094558
154.00	155.00	V473176	**0.1950**	Au-ICP21	VO20094558
155.00	156.00	V473177	**0.2180**	Au-ICP21	VO20094558
156.00	156.60	V473178	0.0660	Au-ICP21	VO20094558
156.60	157.40	V473179	**0.1680**	Au-ICP21	VO20094558
157.40	158.00	V473180	**0.1150**	Au-ICP21	VO20094558
158.00	159.00	V473181	0.0390	Au-ICP21	VO20094558

155.60	155.70	CB; HM
		carbonatization; Hématisation
		Fe-carbonate/hematite cemented melange sye/basalt.
155.70	156.50	CB; HM
		carbonatization; Hématisation
		Fe-carbonate/hematite.
156.50	156.70	CB; SR
		carbonatization; Séricitisation
		Fe-carbonate/sericite cement .
156.70	157.12	SI; CB; HM; FK; MG
		Silicification; carbonatization; Hématisation; Altération en feldspath pota
		Magnetite, strong silicification/carbonate/hematite with patchy potassic alteration. chlorite/amphibole (actinolite) stringer to mm size patches.
157.12	158.80	SI; CB; HM
		Silicification; carbonatization; Hématisation
		Silicification/carbonate/hematite with patchy potassic alteration.
158.80	159.12	CB; HM; FK
		carbonatization; Hématisation; Altération en feldspath potassique
		Strong fenitized patches with hematite alteranting.
153.00	153.10	PY05
		Pyrite 5%
		3-5% pyrite contact mineralization.
153.10	153.50	PY08
		Pyrite 8%
		Mineralized up to 8% fine-grain to very-fine-grain pyrite stringers fracture filling to disseminated, patchy MAG, LC at 30 deg tca
153.50	154.90	PY03; HS
		Pyrite 3%; Spécularite
		Mineralized 3% fine-grain to very-fine-grain pyrite/specularite fracture filling to stringers.
154.90	155.60	PY00.5
		Pyrite 0.5%
		Trace pyrite
155.60	155.70	PY02
		Pyrite 2%
		1-2% fine-grain pyrite/specular stringers to blebs.
155.70	156.50	PY00.5
		Pyrite 0.5%
		Trace pyrite

156.50	156.70	PY01 **Pyrite 1%** mineralized at 1% fine-grain pyrite stringers.	
156.70	157.12	PY08; HS **Pyrite 8%; Spécularite** Mineralized up to 8% fine-grain to very-fine-grain pyrite stringers, specualrite,	
157.12	158.80	PY01 **Pyrite 1%** Up to 1% fine-grain disseminated pyrite	
158.80	159.12	PY10 **Pyrite 10%** 10% fine-grain to very-fine-grain pyrite disseminated conatct minerlaization.	
153.00	153.50	T1A; FA **Brèche de faille; Fracturé(e) 30°** re-worked breccia (Douay Tectonic Zone) patchy MAG, at 30 degree to-core-axis with silica flooding cement, subrounded syenite/mafic fragments, fractured	30
154.60	154.90	T1A; FA **Brèche de faille; Fracturé(e)** re-worked breccia at 50 degree to-core-axis, fractured, with strong silicification to flooding/Fe-carbonate cement, angular mafic frags with strong	
155.60	155.70	BX **Bréchique** brecciated Fe-carbonate/hematite cemented melange syenite/basalt with 1-2% fine-grain pyrite/specular stringers to blebs.	

From	To	Description
159.12	**160.60**	S; LP **Sédiments non divisé 50°; Laminations parallèles** Sediment. Dark beige color, fine to very fine grain. Laminated, finnely bedded, beds are 1-3 mm, they appear to be continuous and have 5 mm feldspar clasts that the layers drape around.Sericitization/carbonate with hematite bands. Trace pyrite, weakly magnetic. Lower contact at 50 degree to core axis.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
159.00	160.00		V473182	0.0410	Au-ICP21	VO20094558
160.00	161.00		V473183	0.0970	Au-ICP21	VO20094558

159.12 160.60 SR; CB; HM

Séricitisation; carbonatization; Hématisation

Sericitization/carbonate with hematite bands.

159.12 160.60 PY00.5

Pyrite 0.5%

TR pyrite, weakly magnetic

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

160.60 161.35 I2D V3B

Syénite avec 25 à 50% de basalte 70°

Syenite with <40% basalt digestion.Pinkish to reddish, porphyritic to aphanitic.Preferred fabric at 50 degree to core axis. Carbonatisation, Fe-carbonate/hematite patchy moderate K_feldspar.Mineralized 0.5% fine grain pyrite disseminated.Lower contact at 75 degree to core axis.

160.60 161.35 CB; HM

carbonatization; Hématisation

Carbonatization, Fe-carbonate/hematite patchy moderate K.

160.60 161.35 PY00.5

Pyrite 0.5%

Mineralized 0.5% fine-grain pyrite disseminated.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

161.35 165.20 V3B I2D; AP

Basalte avec 25 à 50% de syénite; Aphanitique

Basalt with <40% carbonate altererd syenite fragments.Magnetic, green to dark green with spotty beige, aphanitic.30% fractured at high angle to core axis to erratic.

162.78m-163,25m, 153.54m-153.64m, altered syenite with <20% basalt digestion non magnetic, at 70 degree to core axis.

Mineralized at 0.5% Pyrite.Carbonate/hematite with patchy potassic/chlorite/biotite alternating.Mineralization at 1% fine grain pyrite blebs.

161.00	162.00	V473185	**0.1460**	Au-ICP21	VO20094558
162.00	163.00	V473186	0.0980	Au-ICP21	VO20094558
163.00	164.00	V473187	0.0180	Au-ICP21	VO20094558
164.00	165.00	V473188	0.0270	Au-ICP21	VO20094558

Lower contact is graditional.

161.35 165.20 HM; CB; BO

Hématisation; carbonatization; Biotitisation

Carbonate/hematite with patchy potassic/chlorite/biotite alternating.

161.35 165.20 PY01

Pyrite 1%

Mineralization at 1% fine-grain pyrite blebs.

161.35 165.20 FA

Fracturé(e)

30% fractured at high angle to-core-axis to erratic,

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
165.20	**168.85**	V3F; AP **Basalte hyper-magneticnésien; Aphanitique** Medium grain basalt dark green, magnetic, aphanitic, carbonate filled fratured at 65-70 degree to core axis. Patchy strong fenitization alternating with strong chlorite/biotiteitte/acicular actinolite.Mineralization 0.5% fine grain pyrite disseminated, abundant magnetite.Lower contact graditional.	165.00	166.00		V473189	0.0180	Au-ICP21	VO20094558
			166.00	167.00		V473190	0.0220	Au-ICP21	VO20094558
			167.00	168.00		V473191	0.0290	Au-ICP21	VO20094558
			168.00	169.00		V473192	0.0350	Au-ICP21	VO20094558

165.20 168.85 BO; CB; HM; AM; FK

Biotitisation; carbonatization; Hématisation; Amphibolitisation; Altératio

Patchy strong fenitization alternating with strong chlorite/bioitte/acicular actinolite.

165.20 168.85 PY00.5; MG

Pyrite 0.5%; Magnétite

Mineralization 0.5% fine-grain pyrite disseminated, abundant magnetite

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description
168.85	183.10	V3B CO; AM **Basalte; Coussiné; Amygdalaire** Basalt.Magnetic, green, fine, pillowed to amygdaloidal.Epidote filled fractures hairline, 55 degree to core axis. Epidote carbonate filled amygdules, with epidote envelope slevages <1m apart.Carbonate/epidote/chlorite alteration.Mineralized up to 0.5% fine grain pyrite fractures. Lower contact at graditional.
168.85	183.10	CB; EP; CL **carbonatization; Épidotisation; Chloritisation** Carbonate/epidote/chlorite alteration.
168.85	183.80	PY00.5 **Pyrite 0.5%** Mineralized up to 0.5% fine-grain pyrite fractures.
168.85	183.10	FA

From	To	Len	SampleID	Au (ppm)	Method	Certificate
169.00	170.00		V473193	0.0230	Au-ICP21	VO20094558
170.00	171.00		V473194	0.0150	Au-ICP21	VO20094558
171.00	172.00		V473195	0.0210	Au-ICP21	VO20094558
172.00	173.00		V473196	0.0500	Au-ICP21	VO20094558
173.00	174.00		V473197	0.0210	Au-ICP21	VO20094558
174.00	175.00		V473198	0.0310	Au-ICP21	VO20094558
175.00	176.00		V473199	0.0340	Au-ICP21	VO20094558
176.00	177.00		V473201	0.0270	Au-ICP21	VO20094558
177.00	178.00		V473202	0.0220	Au-ICP21	VO20094558
178.00	179.00		V473203	0.0470	Au-ICP21	VO20094558
179.00	180.00		V473204	0.0250	Au-ICP21	VO20094558
180.00	181.00		V473205	**0.1680**	Au-ICP21	VO20094558
181.00	182.00		V473206	0.0430	Au-ICP21	VO20094558
182.00	183.00		V473207	0.0340	Au-ICP21	VO20094558

From	To	Description
183.10	198.00	V3B AP; BQ; AM **Basalte 25°; Aphanitique; Brèche de coulée; Amygdalaire** Basalt, medium grain basalt, basalt with <30% silicified syenite fragments to injections, magnetic, dark red to dark green, aphanitic. Overall <20% calcite/epidote filled fracturing at 45-70 degree to core axis, with; 183.8m-186m syenite with <40% basalt digestion to mafic fragments, silicified strong fracturing at 30 degree to core axis, calcite/silicified/Pyrite filled fractures, with <5% carbonate dyklets mm size at 40 degree to core axis.Strong fenitization with strong Fe-carbonate overprinting. Mineralized 5% fine grain to very fine grain pyrite stringers to fracture filling. 186.1m-186.2m one carbonate at 30 degree to core axis in silicified syenite/basalt digestion host. Mineralized at 10% medium grain pyrite blebs contact Mineralization only.186.2m-189.3m Amygdolidal flow, magnetic, carbonate/Ep filled mm size amygdules, 188.3m-188.5m one carbonate replaced syenite with fe-carbonate patches, Ep/sericite replacing filled stringers to fractured. Minelized 2% medium grain to fine grain pyrite disseminated. Chlorite/Epidote with weak carbonate/hematite/K-feldspar, mineraized 0.5% fine grain pyrite disseminated overall. 190.9m-191.1m one silicified syenite with mafic digestion, at 55 degree to core axis, fractured, strong fenitization with one late 1cm carbonate dyklet crossing cutting. Fenitiaztion with semipervasive Fe-carbonate/apatite,

From	To	Len	SampleID	Au (ppm)	Method	Certificate
183.00	184.00		V473209	**0.1000**	Au-ICP21	VO20094558
184.00	185.00		V473210	0.0150	Au-ICP21	VO20094558
185.00	186.00		V473211	0.0160	Au-ICP21	VO20094558
186.00	187.00		V473212	0.0230	Au-ICP21	VO20094558
187.00	188.00		V473213	0.0860	Au-ICP21	VO20094558
188.00	189.00		V473214	0.0180	Au-ICP21	VO20094558
189.00	190.00		V473215	0.0040	Au-ICP21	VO20094558
190.00	191.00		V473216	0.0100	Au-ICP21	VO20094558
191.00	192.00		V473217	0.0070	Au-ICP21	VO20094558
192.00	193.00		V473218	0.0180	Au-ICP21	VO20094558
193.00	194.00		V473219	0.0230	Au-ICP21	VO20094558
194.00	195.00		V473220	0.0400	Au-ICP21	VO20094558
195.00	196.00		V473221	0.0310	Au-ICP21	VO20094558
196.00	197.00		V473222	0.0510	Au-ICP21	VO20094558
197.00	198.00		V473223	0.0430	Au-ICP21	VO20094558

silicification. Mineralized 25% medium grain to fine grain pyrite disseminated.

191.1m-193.4m medium grain basalt dark green to brown, aphanitic, calcite/epidote filled fractures arretic to high angle to core axis, with 192.2m-192.5m one flow breccia epidote/calcite. Lower contact is /Fe-carbonate cement, carbonate/hematite/potassic with biotite pervasive patches. Mineralized trace pyrite.

196.15m – 196.3m ine flat lying 2 cm carbonate with K-Feldspar/carbonate/hematite envelope 5% pyrite envelope only. lower contact is at 25 degree to core axis

183.80 186.00 I2D V3B

Syénite avec 25 à 50% de basalte

183.8m-186m syenite with <40% basalt digestion to mafic fragments, silicified strong fracturing at 30 degree to-core-axis, calower-contact/si/pyrite filled fractures, with <5% carbonatite dyklets mm size at 40 degree to-core-axis.Strong fenitization with strong Fe-carbonate overprinting. Mineralized 5% fine-grain to fine-grain pyrite stringers to fracture filling.

186.10 186.20 I2D V3B; I4Q

Syénite avec 25 à 50% de basalte; Carbonatite

186.1m-186.2m one carbonatite at 30 degree to-core-axis in silicified syenite/basalt digestion host. Mineralized at 10% medium-grain pyrite blebs contact mineralization only.

190.90 191.00 I2D (V3B)

Syénite avec 5 à 25% de basalte 55°

One silicified syenite with mafic digestion, at 55 degree to-core-axis,fractured, strong fenitization with one late 1cm carbonatite dykelet crossing cutting. Fenitiaztion with semipervasive Fe-carbonate/apatite, silicification. Mineralized by 25% medium-grain to fine-grain pyrite disseminated.

191.10 193.40 V3F

Basalte hyper-magnésien

Medium-grain basalt dark green to brown, aphanitic, calcite/epidote filled fractures erratic to high angle to-core-axis, with 192.2m-192.5m one flow breccia epidote/calcite/Fe-carbonate cement, carbonate/hematite /potassic with Biotite pervasive patches. Mineralized trace pyrite.

196.15 196.30 I4Q

Carbonatite

196.15m – 196.3m ine flat lying 2 cm carbonatite with K-feldspar/ carbonate/hematite envelope 5% pyrite envelope only.

183.10 183.80 BO; CB; HM

Biotitisation; carbonatization; Hématisation

Bio/carbonate/hematite.

183.80 186.10 SI; CB; HM; FK

Silicification; carbonatization; Hématisation; Altération en feldspath pota

Strong fenitization with strong Fe-carbonate overprinting.

186.10 186.20 CC; HM; SI

Calcitisation; Hématisation; Silicification

One carbonatite at 30 deg tca in silicified sye/basalt digestion host.

186.20 190.90 CB; HM; EP; CL

carbonatization; Hématisation; Épidotisation; Chloritisation

Chlorite/Epdote with weak carbonate/hematite/k-feldspar,

190.90 191.10 SI; CC; CB; HM; FK

Silicification; Calcitisation; carbonatization; Hématisation; Altération en fe

One silicified syenite with mafic digestion, at 55 deg tca, fractureured, strong fenitization with one late 1cm carbonatite dykelet crossing cutting. Fenitization with semipervasive Fe-carbonate/apatite, silicification.

191.10 193.40 BO; EP; CB

Biotitisation; Épidotisation; carbonatization

Medium-grain basalt dk green to brown, aphanitic, calcite/ep filled fractureures arretic to high angle tca, with 192.2m-192.5m one flow breccia ep/calcite/Fe-carbonate cement, carbonate/hematite/potassic with Biotite pervasive patches, mineralized trace pyrite.

193.40 196.15 BO; CB; HM; MG

Biotitisation; carbonatization; Hématisation; Magnétite

Bio/carbonate/hematite.

196.15 198.00 CC; CB; HM; MG

Calcitisation; carbonatization; Hématisation; Magnétite

Carbonatite with k-feldspar/carbonate/hematite envelope.

183.80 186.00 PY05

Pyrite 5%

Mineralized 5% fine-grain to very-fine-grain pyrite stringers to fracture filling.

186.00 190.90 PY00.5

Pyrite 0.5%

trace pyrite

190.90 191.00 PY25

Pyrite 25%

Mineralized 25% medium-grain to fine-grain pyrite disseminated;

191.00	196.15	PY00.5	
		Pyrite 0.5%	
		Mineralized trace pyrite.	
196.15	196.30	PY05	
		Pyrite 5%	
		5% pyrite envelope only.	
196.30	198.00	PY00.5	
		Pyrite 0.5%	
		trace pyrite	
183.80	186.00	FA	30
		Fracturé(e) 30°	
		syenite with <40% basalt digestion to mafic fragments, silicified strong fracturing at 30 degree to-core-axis, calcite/sil/pyrite/ filled fractures, with <5% carbonatite dykelets mm size at 40 degree to-core-axis	
190.90	191.00	FA	55
		Fracturé(e) 55°	
		one silicified syenite with mafic digestion, at 55 degree to-core-axis, fractured	
191.10	193.40	FA	
		Fracturé(e)	
		calcite/epidote filled fractures erratic to high angle to-core-axis	

From	To	Description
198.00	**200.35**	I2D; I2D; PO
		Syénite; Syénite 50°; Porphyrique
		Syenite, with <25 mafic digestion.Magnetic, dark reddish, to brown, coarse, porphyritic, subrounded equigranular, microfractured to fractured, silica filled hairline fracturing.Carbonate/silicified/hematite with semipervassive potassic, fenitization, moderate silicification. Mineralization at 3-4% fine grain to very fine grain pyrite disseminated. Lower contact at 50 degree to core axis.
198.00	200.35	SI; CB; HM; FK
		Silicification; carbonatization; Hématisation; Altération en feldspath pota
		Carbonate/silica/hematite with semipervasive potassic, fenitization, moderate silicification.
198.00	200.35	PY04
		Pyrite 4%
		mineralization at 3-4% fine-grain to very-fine-grain pyrite disseminated

From	To	Len	SampleID	Au (ppm)	Method	Certificate
198.00	199.00		V473224	0.0140	Au-ICP21	VO20094558
199.00	200.00		V473226	0.0100	Au-ICP21	VO20094558

198.00 200.35 FA

Fracturé(e)

microfractured to fractured, silica filled hairline fracturing

From	To	Description
200.35	**207.00**	V3B (I2D); AP **Basalte avec 5 à 25% de syénite; Aphanitique** Basalt with <20% carbonate altered syenite, dark green to brown, aphanitic.Fractured with carbonate/Fe-carbonate, with;201.9m-202m one carbonate relaced syenite injections at 20 degree to core axis,vuggy, intense fenitized/hematite, with 2-3% pyrite stringers to blebs.203.2m-203.4m one carbonate altered syenite/mm size carbonate dykelt at 25-30 degree to core axis, fractured, patchy silicified, strong fenitized intense hematite host. Mineralized at 15-20% fine grain to very fine grain pyrite. 203.6m-204.4m proximal carbonate altered syenite strong frnitization/hematite. Mineralized at 10% medium grain to very fine grain pyrite disseminated with 8% late medium grain pyrite blebs.Carbonate/hematite with patchy potassic alteration, moderate chlorite/biotite increasing lower unit, fe-carbonate around contacts.Mineralized 2% medium grain to fine grain pyrite disseminated to stringers overall.E.O.H
203.20	203.40	I2D **Syénite** One carbonate altered syenite/mm size carbonatite dykelet at 25-30 degree to-core-axis,fractured, patchy silicified, strong fenitized intense hematite host. Mineralized at 15-20% fine-grain to fine-grain pyrite.
200.35	201.90	CB; HM; FK; BO **carbonatization; Hématisation; Altération en feldspath potassique; Biotiti** Carbonate/hematite with patchy potassic alteration, moderate chlorite/biotite increasing lower unit, fe-carbonate around contacts.
201.90	202.00	CB; HM; FK **carbonatization; Hématisation; Altération en feldspath potassique** One carboante relaced sye injections at 20 deg tca, vuggy, intense fenitized/hematite.
202.00	203.20	CB; HM; FK **carbonatization; Hématisation; Altération en feldspath potassique** Carbonate/hematite with patchy potassic alteration, moderate chlorite/biotite increasing lower unit, fe-carbonate around contacts.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
200.00	201.00		V473227	0.0200	Au-ICP21	VO20094558
201.00	202.00		V473228	0.0600	Au-ICP21	VO20094558
202.00	203.00		V473229	0.0850	Au-ICP21	VO20094558
203.00	204.00		V473230	0.0680	Au-ICP21	VO20094558
204.00	205.00		V473231	0.0490	Au-ICP21	VO20094558
205.00	206.00		V473232	0.0350	Au-ICP21	VO20094558
206.00	207.00		V473233	0.0210	Au-ICP21	VO20094558

203.20	203.60	HM; CC; CB; FK
		Hématisation; Calcitisation; carbonatization; Altération en feldspath pota
		Carbonate altered syenite/mm size carbonatite dykelt at 25-30 deg tca, fractureured, patchy silicified, strong fenitized intense hematite host, mineralized at 15-20% fine-grain to vfine-grain pyrite.
203.60	204.40	CC; HM; FK
		Calcitisation; Hématisation; Altération en feldspath potassique
		Proximal carbonatite altered syenite strong fenitization/hematitization.
204.40	207.00	CB; HM; FK
		carbonatization; Hématisation; Altération en feldspath potassique
		Carbonate/hematite with patchy potassic alteration, moderate chlorite/biotite increasing lower unit, fe-carbonate around contacts.
200.35	201.90	PY00.5
		Pyrite 0.5%
		trace pyrite
201.90	202.00	PY03
		Pyrite 3%
		2-3% pyrite stringers to blebs.
202.00	203.20	PY01
		Pyrite 1%
		Up to 1% fine-grain pyrite disseminated
203.20	203.40	PY20
		Pyrite 20%
		mineralized at 15-20% fine-grain to very-fine-grain pyrite.
203.40	203.60	PY02
		Pyrite 2%
		Mineralized 2% medium-grain to fine-grain pyrite disseminated to stringers overall.
203.60	204.40	PY10
		Pyrite 10%
		mineralized at 10% medium-grain to very-fine-grain pyrite disseminated with 8% late medium-grain pyrite blebs
204.40	207.00	PY02
		Pyrite 2%
		Mineralized 2% medium-grain to fine-grain pyrite disseminated to stringers overall.
203.20	203.40	FA
		Fracturé(e)
		fractured,

203.60	204.40	FA **Fracturé(e)** fractured

Downhole Survey

Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method
0.00	2.06	-50.06	Collar	57.00	1.35	-51.67	Champ Gyro	66.00	1.63	-52.62	Champ Gyro
81.00	1.89	-51.44	Champ Gyro	111.00	1.99	-51.35	Champ Gyro	141.00	1.83	-51.02	Champ Gyro
171.00	1.49	-50.27	Champ Gyro	201.00	1.94	-50.22	Champ Gyro				

Drillhole Information

Easting: 705302.53
Northing: 5491607.92
Elevation: 283.46
Azimuth 1.90
Dip -47.00

Drilling Information

DrillCo: Roby
DrillID: R4
DrillStart: 16-Mar-20
DrillEnd: 21-Mar-20
Length (m): 285.00

Logging Information

LogBy: E. Stavre (OGQ #2144)
LogStart: 18-Mar-20
LogEnd: 22-Mar-20

Drillhole Summary

Intercepts >= 0.1 ppm

Hole_ID	From	To	Length	Au (ppm)
DO-20-279	50	95	45	0.352
DO-20-279	98	99	1	0.19
DO-20-279	101	102	1	0.316
DO-20-279	105	107	2	0.975
DO-20-279	110	117	7	0.421
DO-20-279	120	121	1	0.173
DO-20-279	124	141	17	0.282
DO-20-279	154	157	3	0.147
DO-20-279	159	160	1	0.102
DO-20-279	166	171	5	0.208
DO-20-279	176	178	2	0.193
DO-20-279	181	183	2	0.202
DO-20-279	192	195	3	0.202
DO-20-279	205	206	1	0.118
DO-20-279	210	212	2	0.434
DO-20-279	218	219	1	0.193
DO-20-279	233	234	1	0.193
DO-20-279	241	242	1	0.152
DO-20-279	245	246	1	0.412
DO-20-279	252	253	1	0.438
DO-20-279	255	256	1	0.246
DO-20-279	259	263	4	0.172
DO-20-279	271	275	4	0.326

E. Stavre (OGQ #2144)
12-Jan-22

Lithology and Assay Results

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
0.00	**47.10**	M-T **Mort terrain** Overburden							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
47.10	**48.75**	V3B AP **Basalte; Aphanitique** Basalt. Grey, to dark beige, reddish color, fine grain, magnetic decreasing, aphanitic,altered, weak fracturing/shear.47.73-47.85m syenite injection, strong hematite'd, silicified, moderate carbonatisation fenitization with strong carbonate, hematite/K-feldspar, overprinting chloritisation.Shear zone 3cm at the contact. (48.7-48.75).Lower Contact is graditional.Trace to 0.5% pyrite disseminated overall with 3% at the syenite contact. 47.73-47.85 Orange Sheared syenite at 40 degree to core axis. Host is potassic altered digested basalt with strong carbonate/chlorite/hematite haloes. Mineralized at 3-4% medium grain to fine grain pyrite.48.9 one local fault at 80 degree to core axis with secondary biotite/hematite. Occuppied by a felsic injection, re-worked. Biotite/Chlorite/Amphibole lineations and slickensides.	47.10	48.00		V472791	0.0750	Au-ICP21	VO20089187
			48.00	49.00		V472792	0.0170	Au-ICP21	VO20089187
47.73	47.85	I2D; PO **Syénite; Porphyrique** Syenite injection, strong hem'd, silicified, moderate carbonatization.							
47.10	47.73	HM; CB; FK **Hématisation; carbonatization; Altération en feldspath potassique** Fenitization with strong carb, hem'd/k, overprinting chloritisation.							
47.73	47.85	SI; HM **Silicification; Hématisation** 47.73-47.85m syenite injection, strong hem'd, silicified, moderate carbonatization.							

47.85	49.36	CB; HM **carbonatization; Hématisation** Carbonate/hematite with chlorite patches.
47.10	47.73	PY00.5 **Pyrite 0.5%** trace to 0.5% pyrite disseminated overall
47.73	48.75	PY03 **Pyrite 3%** with 3% at the syenite contact.
47.10	47.20	CS **Cisaillé(e)** shear zone 3cm at the contact.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
48.75	**49.00**	I2D V3B; PO **Syénite avec 5 à 25% de basalte 25°; Porphyrique** Syenite with <5% basalt. Pink color, medium granulation, porphyritic texture, euhedral feldspar.Fracturing is silica filled hairline filled.Alteration is carbonate/hematite alteration with few sericite/chlorite patches. Trace to 0.5% Py Lower contact at 25 degree to core axis.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
49.00	**50.30**	V3B AP **Basalte; Aphanitique** Basalt.Magnetic, green to beige color, aphanitic, altered.Locally sheared at 49.83-52.30m.Intense magnetite at 49.36-49.83m. Strong carbonatization at 49.36-49.83m, with fe-carbonate patches at 49.83-52.30m.Trace pyrite overall with up to 10% pyrite fine disseminated, locally: at 49.36-49.83m.49.4-49.6m. Orange color, aphanitic. Aplite/Felsite? distinguished contact at 40 degree to core axis. Microfractured unit with sheared upper and lower contacts. Quartz boudins in the upper contact. Strong silicification/sericitization. Mylonitic fabric in lower contact. Trace pyrite.	49.00	50.00		V472793	0.0920	Au-ICP21	VO20089187

49.6-50 Light orange, aphanitic carbonate digested basalt. Fine grain feldspars, almost holocrystaline, groundmass strongly carbonate. Very small colorless amphibole patches. Intense carbonate alteration with intense apatite pervasive to dense light greyish/bluish patches. Hematite smaller size patches.Strong leucoxene alteration with moderate secondary biotite.

Mineralized at around 6-8% fine grain to medium grain pyrite disseminated. Elevated REE's.PO4=41%, Ca=15.21%, Al2O3=1.53%, Fe=7.05%, Ce=147050-50.3 Mottled apparence, aphanitic, basalt, carbonate digested, greenish to light greysh patches, microfractured anhedral K-feldspar crystal, ophitic.Strong carbonatisation, with intense apatite light greyish/bluish patches, strong to intense leucoxene, with potassic alteration/hematite smaller patches alternating. Very small needles possible actinolite, no porphyroclast textures noted. Mineralized trace pyrite.

49.36	50.30	CB; MG; HM **carbonatization; Magnétite; Hématisation** High magnetite at 49.36-49.83m. strong cabonateat 49.36-49.83m, with fe-carbonate at 49.83-52.30m.
48.75	49.36	PY00.5 **Pyrite 0.5%** Trace to 0.5% pyrite
49.36	49.83	PY10 **Pyrite 10%** trace pyrite overall with up to 10% pyrite fine disseminated at 49.36-49.83m
49.83	50.30	PY00.5 **Pyrite 0.5%** trace pyrite

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
50.30	**50.70**	I2D; GM **Syénite; Grains moyens** Syenite. Orange to reddish syenite,fractured. Carbonate replacement, oxidized, medium to coarse granulation. Strong carbonate/hematite/fe-carbonate alteration. Mineralized at 2% fine grain to very fine grain pyrite.	50.00	51.00		V472794	**0.1650**	Au-ICP21	VO20089187
50.30	50.70	CB; HM **carbonatization; Hématisation** Strong carbonate/hematite/fe-carb.							
50.70	**60.50**	V3B (I2D); AP **Basalte avec 5 à 25% de syénite; Aphanitique** Basalt. Magnetic, dark reddish to greenish, fine grain to aphanitic. Weakly fractured, with weak carbonate replacement.Strong fenitization, strong carbonatisation/hematite/K-feldspar with strong Fe-carbonate patches overall with biotite/accicular Amphibole replacement locally:at 53.65m-54.30m.55.4m-56.3m reddish syenite finer grain, hematite/carbonate.57.1m-58.2m strong semipervasive Epidotization. Syenite injections (digestion?) at 53.65m-54.30m et 55.90m-56.33m.Mineralized at 1-2% fine grain pyrite disseminated overall with up to 3% disseminated Py,Chalcopyrite blebs to aggregates.locally:54.30m-55.05m.59.18m-59.8m.Lower contact: Gradational contact.Mostly carbonate altered basalt.Greenish to greyish, aphanitic with <1-2% pink porphyritc felsic injections. K-Feldsapar is fine grain, anhedral, microfractured, with rare ophitic to maybe holocrystalline mm size patches. Felsic injections have faint equigranular medium grain K-feldsparfracturing is moderate, carbonate/magnetite filled overall with occassionally pyrite filling to stringers. Felsic injections are microfractured with a mm size local late shearing concordant to injection 50-70 degree to core axis. Fracturing is strong as an envelope along with undulations and boudinaged feldspar to rare	51.00	52.00		V472795	0.0720	Au-ICP21	VO20089187
			52.00	53.00		V472796	**0.3830**	Au-ICP21	VO20089187
			53.00	54.00		V472797	0.0080	Au-ICP21	VO20089187
			54.00	55.00		V472798	**0.1030**	Au-ICP21	VO20089187
			55.00	56.00		V472799	0.0360	Au-ICP21	VO20089187
			56.00	57.00		V472801	**0.2250**	Au-ICP21	VO20089187
			57.00	58.00		V472802	0.0170	Au-ICP21	VO20089187
			58.00	59.00		V472803	**0.3070**	Au-ICP21	VO20089187
			59.00	60.00		V472804	**0.5970**	Au-ICP21	VO20089187
			60.00	61.00		V472805	0.0270	Au-ICP21	VO20089187

quartz crystals, carbonate filled veinlets. Noted are late grey short apatite veinlets whish sometime are carbonate veinlet overprint very irregular pattern.Alteration is mostly carbonate/hematite. K-feldspar is patchy. Anomalous apatite alternating intesity as patches, stains, to subround shape with magnetite specs overprint. Abundant short apatite veinlets to fragments. Leucoxene alteration is strong but patchy, late and overprinting(not apatite).

Propylitic alteration at around 57-58.4m with strong green Epidote patches, overprinitng geology. Epidote/Carbonate/Hematite and K-feldspar patches defined in edges. Potassic alteration is patchy and noted in syenite injections and in aphanitic carbonate/K-feldspar altered aggregates where apatite is lacking. Sericite is <3-5% thin bands in and around shear zones only. Usually is Sericite/Carbonate/pyrite assemblages in shear zones and very rare Sericite/silicified/pyrite around felsic injections rims.Mineralizationis trace to 3-4% overall overall. Most of the higher sulphide concentrations is shear, fracture controlled with magnetite. Rare phyllic associated sulphide Mineralization.52.2-52.5 Strong carbonate altered basalt, greysh with light blueish hue, aphanitic. Fracturing is carbonate filled fractures at around 40 degree to core axis. One <1.5cm pink porphyritc felsic injections at 75 degree to core axis. Microfracturerured K-feldspar feldspar, medium granulation. Silicifed haloes in wall rock.Overall strong carbonatisation with strong pervasive apatite subround patches, hematite/carbonate alternating. Thin sericite patches/bands. Small phyllic alteration around injection SE/silicified/pyrite. Strong leucoxene.Mineralization is 3-4% disseminated to fracturerure filling in equal ratio. Chalcopyrite trace. Magnetite.52-53 Au=0.383 gpt.58-60 Light greysh/bluish patches, aphanitic, wirh porphyritic equigranular k-feldspar syenite fragments. Fragments have graditional contacts irregular, with carbonate thin envelope. Fractures are short, with carbonate/magnetite filled and rare pyrite.Alteration is mostly strong carbonate pervasive with apatite moderate to intense angular to round patches distinguished, minor strong leucoxene patches with common hematite/carbonate alternating. Epidote and chlorite is late overprinitng patches mostly on the flanks of the interval. Almost propilitic alteration. Lack of biotite.60-60.5 <20% Mottled apparence, apatite veinlets to fragments, irregular to subangular. Immediate 2-4% pyrite stringers to hairline pyritefilled fractures at 70-80 degree to core axis. One <0.5mm carbonate/apatite vein flat to 10 degree to core axis, somewhat stretched.

58-59 Au=0.307 gpt, 59-60 Au=0.597 gpt.

53.65 54.30 I2D; PO

Syénite; Porphyrique

Syenite injections (digestion?) at 53.65m-54.30m.

55.90	56.33	I2D; PO **Syénite; Porphyrique** Syenite injections (digestion?) at 55.90m-56.33m.
50.70	57.00	CB; HM; FK **carbonatization; Hématisation; Altération en feldspath potassique** Strong fenitization, strong carbonatization/hematite'd/k-feldspar with strong Fe-carb patches overall with bio/accicular replacement at 53.65m-54.30m.
57.00	58.20	EP **Épidotisation** 57.1m-58.2m strong semipervsive Epidotization.
58.20	60.50	CB; HM; FK **carbonatization; Hématisation; Altération en feldspath potassique** Strong fenitization, strong carbonatization/hematite'd/k-feldspar with strong Fe-carb patches overall with bio/accicular replacement at 53.65m-54.30m.
50.30	54.30	PY02 **Pyrite 2%** mineralized at 2% fine-grain to very-fine-grain pyrite.
54.30	55.05	PY03 **Pyrite 3%** mineralized at 1-2% fine-grain pyrite fine disseminated overall with up to 3% de pyrite, 54.30m-55.05m.59.18m-59.8m
55.05	59.18	PY02 **Pyrite 2%** mineralized at 1-2% fine-grain pyrite fine disseminated overall
59.18	59.80	PY03 **Pyrite 3%** with up to 3% de pyrite,59.18m-59.8m
59.80	60.50	PY02 **Pyrite 2%** mineralized at 1-2% fine-grain pyrite fin disseminated overall
49.83	52.30	CS **Cisaillé(e)** Locally sheared at 49.83-52.30m

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

61.00	62.00	V472806	**0.1610**	Au-ICP21	VO20089187
62.00	63.00	V472807	0.0440	Au-ICP21	VO20089187
63.00	64.00	V472809	0.0890	Au-ICP21	VO20089187
64.00	65.00	V472810	**0.4980**	Au-ICP21	VO20089187
65.00	66.00	V472811	**0.1960**	Au-ICP21	VO20089187
66.00	67.00	V472812	**0.4640**	Au-ICP21	VO20089187

60.50 **66.80** V3B (I2D); AP

Basalte avec 5 à 25% de syénite; Aphanitique

Basalt.

Green to greysh, aphanitic to fine grain, magnetic.<5% mm to <1cm size porphyritic syenite fragments to rare thin injections.Moderate carbonate fracturing, erratic.Strong fenitization with carbonatisation patchy to staining. hematite/chlorite/biotite replacement alteration.66.46-66.64m syenite with strong carbonatisation. Mineralized, up to 1-2% fine grain pyrite.Mostly carbonate basalt. Greenish greyish to light reddish patches. Aphanitic with very rare spotty k-feldspar crysts. Mostly altered.Microfractured unit with carbonate, carbonate/magnetite filled fractures overall. Abundant apatite short veinlets to fracture filling.Weak deformation with <2% local shearing, <5cm thick to core axis. Shearing is mostly felsic injection controlled, 50-70 degree to core axis. Pressure solutions calcite filled gashes, to rare stylolitic joints. (63.6-63.7).Alteration is carbonate/hematite/potassic alteration with strong leucoxene patches. carbonate is irregular cm patches with magnetite specs overprints.Apatite is intense patches PO4 ranges up to 48% at spots. Intense apatite is associated with elevated REE's. Strong proximate carbonate system.Potassic alteration is faint pinkish patches, alternating.Biotite/chlorite is secondary semipervasive patches alternating intesity, often with magnetite overprint. (60.5-66.8) One limonite stain, vuggy textured at 68m.Overall peripheral propylitic alteration? lack of epidote.Mineralization is trace Pyrite, magnetite. Stronger pyrite concentrations are in and around shear/injections zones as stringers, fracture filling and very fine grain pyrite disseminated, up to 5% very fine grain to fine grain.

62.23-63 carbonate basalt. Greyish to greenish, aphanitic, with mottled appearance. Moderate fracturing mostly carbonate filled fracturerures at 40-45 degree to core axis. Late cross cutting. Patchy to alteration zoning. Light greysh carbonatisation patches with defined contours with green spotty to patchy apatite altered basalt

64.1-64.2 sheared basalt, greenish toi greysh, aphanitic host. Late semipervasive apatite patches to staining, fracturing is around 50-55 degree to core axis shear controlled with denser 50 degree to core axis fabric orientation. Undulation , boudinaged sericite/carbonate thin bands in and around shear planes. Mosltly peripheral propylitic alteration. Carbonate/chlorite/hematite, lack of Epidote.Thin seicite bands shear controlled only. Mineralization is 3-4% pyrite stringers and SE overprinintg(phyllic?) only. Host is race pyrite.64-65 Au=0.498gpt

66.46 66.64 I2D; PO

Syénite; Porphyrique

Syenite with, strong carbonatization

60.50 66.80 FK; CB; HM; BO

Altération en feldspath potassique; carbonatization; Hématisation; Biotiti

Strong fenitization with carbonatization/hematite chlorite/bio replacment.

60.50 66.80 PY02

Pyrite 2%

mineralized up to 1-2% fine-grain pyrite.

From	To	Description
66.80	**69.10**	I2D; AP **Syénite; Aphanitique** Syenite. Light grey, strongly altered, aphanitic.Carbonate to carbonate replacement, patchy magnetic. Mineralized up to 3% fine grain pyrite disseminated.Lower contact litho defined.66.8-68.1 Digested carbonate altered basalt with <5% thin pinkish porphyritic syenite.Light greenish to light greysh, aphanitic, K-feldspar noted only in syenite injections.(66.8-67).Fractures are hailrline carbonate filled and/or chlorite filled, with late carbonate somewhat boudinaged at 70 degree to core axis, overprinitng.Shearing is local and syenite injections controlled with <0.5cm wide at around 70-75 degree to core axis.(66.8-67) Stretched carbonate veinlets and preferred fabrics terminating at syenite contacts.Alteration is strong carbonate/sericite/pyrite pervasive to wider patches, with semipervsive biotite alteration enveloping phyllic alteration. Apatite is late intense pervasive due to proximal carbonate system. Elevated REE's. Alternating intesity semipervasive leucoxene. Mineralization is 8-10% very fine grain to fine grain pyrite disseminated overall with fracture filling to shear controlled.(66.8-67).PO4=70%, SiO2=20.67%, Ca=13.8%, Fe=1.79%, Ce=2900, La=944.66-67=Au=0.464 gpt67-68 Au= 0.544 gpt68-69 Au=0.311 gpt

From	To	Len	SampleID	Au (ppm)	Method	Certificate
67.00	68.00		V472813	**0.5440**	Au-ICP21	VO20089187
68.00	69.00		V472814	**0.3110**	Au-ICP21	VO20089187

66.80 69.10 CB; MG

carbonatization; Magnétite

Carbonatized, replaced, patchy magnetitenatic.

66.80 69.10 PY03

Pyrite 3%

mineralized up to 3% fine-grain pyrite disseminated

From	To	Description
69.10	**75.90**	V3B (I2D); AP **Basalte avec 5 à 25% de syénite 45°; Aphanitique** Basalt with <25% syenite. Grey to green, altered, aphanitic, magnetic.Moderate fracturing at 45-50 degree to core axis, with <5% felsic fragments to mm size syenite injections.69.14m-69.54m carbonate altered replacing silicified syenite with up to 10% medium grain to fine grain disseminated Py72.4m-72.56m fine grain syenite strong hematite/K-feldspar. Mineralized up to 1% fine grain pyrite disseminated.Overall fenitized/carbonate/ hematite alteration with silicified patches and sericite/K-feldspar alteration. Mineralized up to 0.5% Py, overall with up to 3-4% pyrite patches where sericitized. Magnetite specs to stringers.Lower contact at 45 degree to core axis.Mostly basalt with <5% thin syenite injections. Green to light greenish, to greysh/light bluish.Top of the interval is aphanitic, with rare felspar unhedral fine granulation. Towards 70m-down apex start to develop faint ophitic texture with alternating density. Carbonate(carbonate) altererd intergranulation.to few sections halocrystaline(73.8-74.8). Syenite is porphyritic, K-feldspar, equigraular, medium granulation, microfractured. Overall fracturing is hairline to carbonate filled at 35-50 to core axis. <10% mm size carbonate tension gashes,(69.6-72.3), due to late mm size syenite injections, to regular syenite intrusive at 73.3-73.5. Core axes are consistent at 50-75 degree to core axis.Shearing is up 2-3% of the unit. 69.8-70.2 mostly dense fracturing with minor undulation/boudinaged, stretched carbonate veinlets to potassic altered mm size fragments.(68.8-68.9). Carbonate, sericite and rare epidote overprinting alteration. Mineralization is trace pyrite.71-71.2 flat lying to 10 degree to core axis <1cm band anastomosing stringers, chlorite/magnetite filled. Host is strong fenitized basalt with potassic alteration defined.73.5-73.8 Fault breccia. Tectonic breccia monogenic, angular dark reddish fenitized digested mafic. Poorly sorted. Crystaline carbonate cement. Breccia sits at 60 degree to core axis. Host: Hanging wall of the fault is phyllic alteration with SE/Pyrite/silicified patches. Mineralized at aound 6-7% very fine grain to fine grain pyrite disseminated. Fracture zone <1cm (HW) is alternating BI/chlorite/Carbonate/SE alteration bands with carbonate/Pyrite/magnetite filling fractures at 60 degree to core axis. Core Zone carbonate with fenitized patches. Mineralized at 4% fine grain Py/Po/magnetite fragments overprint only. Footwall appears strongly carbonate, sericitized with late light bluish hue apatite. Mineralization at around 4-5% very fine grain to fine grain pyrite disseminated.Alteration varies from pervasive carbonate/sericite(68-68.8) to carbonate/apatite/sericite/biotite/hematite(68.8-69.6) to carbonate/hematite/potassic alteration fenitized digested basalt. Strong to

From	To	Len	SampleID	Au (ppm)	Method	Certificate
69.00	70.00		V472815	**0.2280**	Au-ICP21	VO20089187
70.00	71.00		V472816	0.0110	Au-ICP21	VO20089187
71.00	72.00		V472817	0.0090	Au-ICP21	VO20089187
72.00	73.00		V472818	**0.6340**	Au-ICP21	VO20089187
73.00	74.00		V472819	**1.4850**	Au-ICP21	VO20089187
74.00	75.00		V472820	0.0670	Au-ICP21	VO20089187
75.00	76.00		V472821	**0.5220**	Au-ICP21	VO20089187

medium grain potassic alteration at (73.3-73.5).Apatite alteration is strongly associated with elevated REE's. Proximate carbonate.Leucoxene alteration is patchy alternating intesity. Magnetite.Mineralization is trace to 1% fine grain pyrite blebs overall with higher concentrations where stronger sericite/apatite alteration defined. Magnetite blebs to specs.

69.10 69.54 I2D; PO

Syénite; Porphyrique

Carbonate altered replacing epidote, silicified syenite with up to 10% medium-grain to fine-grain disseminated pyrite.

69.10 69.54 CB; SI

carbonatization; Silicification

Carbonate altered replacing silicified syen.

69.54 75.90 HM; CB

Hématisation; carbonatization

Overall fenitized/carbonate/ hematite/ with silicified ptches and Fe-carbonate/k.

69.10 69.54 PY10

Pyrite 10%

carbonate altered replacing silicified syenite with up to 10% medium-grain to fine-grain disseminated pyrite

69.54 72.40 PY00.5

Pyrite 0.5%

mineralized up to 0.5% pyrite

72.40 75.90 PY01

Pyrite 1%

fine grain syenite strong hematite/K mineralized up to 1% fine-grain pyrite disseminated.

From	To	Description
75.90	**77.66**	V3B (I2D); AP
		Basalte avec 5 à 25% de syénite; Aphanitique
		Basalt with <5% syenite.Basalt,beige to light grey, fine grain to aphanitic, with <5% syenite, porphyritic.Carbonate filled fractures at 10% erratic, to stockwork (77.2m-77.66m).Carbonatisation, bleached, Fe-carbonate/sericite, hematite alteration package. Mineralization is trace to 1-3% fine grain pyrite disseminated.Basalt with <2-5% pink felsic porphyritic syenite fragments to mm size injections.Light beige to light greenish, aphantic, Feldsapar is 95% altered carbonate. Few spotty porphyritic microfractured pink syenite

From	To	Len	SampleID	Au (ppm)	Method	Certificate
76.00	77.00		V472822	**0.8580**	Au-ICP21	VO20089187
77.00	78.00		V472823	**0.1310**	Au-ICP21	VO20089187

ragments to rare mm size thin injections. Fragments have sharp irregular contacts.Fractures are hairline to <0.1mm size 50-75 degree to core axis overall. Carbonate filled fractures with pinkish felsic fluid fillings.76.8-77 Increase of tension gashes, fracturing, minor undulation, with moderate sheared syenite fragments to anastomosing silica/Pyrite/magnetite filled fracturing. One syenite mm size immediate at 40 degree to core axis. Mineralized at 6-8% very fine grain to fine grain pyrite stringers, fracture filling to disseminated.77.1-77.62 One mixture of fractured digested basalt with syenite fragments. Strong fracturing with <5% apatite veining. Mostly anastomosing carbonate veinlets. Erratic Epidote/Carbonate/Hematite patches, carbonate veining, brecciated, erratic. Fault Zone. Matrix apears potassic alteration/amphibole/carbonate altered.

Mineralization is trace pyrite. Magnetite.Alteration overall is an alternating of CB/SE/BI/K-feldspar-feldspar apatite alteration with EP/Carbonate/hematite/BI/apatite propylitic alteration. Potassic alteration is spotty to patches. Fenitization patches. Leucoxene semipervasive. Magnetite.Apatite is associated with elevated REE's. Proximate carbonate.

Mineralizationis 2-5% very fine grain to fine grain pyrite disseminated overall. Up to 6-8% very fine grain to fine grain pyrite disseminated concentrations CB/SE/K-feldspar-feldspar/pyrite alteration package (phyllic).

75.90 77.66 CB; HM
carbonatization; Hématisation
Strongly altered, carbonte, Fe-carb, hematite.

75.90 77.66 PY01
Pyrite 1%
Trace α 1% de pyrite fin dissΘminΘ.

77.20 77.66 FA
Fracturé(e)
Carbonate filled fractures at 10% erratic, to stockwork

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
77.66	**80.40**	V3B (I2D); AP **Basalte avec 5 à 25% de syénite; Aphanitique** Basalt with <25% syenite, magnetic, beige to grey fine grain to aphanitic, altered.Weak fracturing at 20-30degree to core axis. Carbonate/sericite alteration with stronger silicification where felsic.Strong hematite/K-feldspar-feldspar alteration, stronger Fe-carbonate patches down apex.Mineralized trace to 0.5% fine grain pyriteoverall, trace Chalcopyrite.Lower contact is 75 degree to core axis.Basalt with <5% syenite.Light beige to greenish to reddish, aphanitic to ophitic. Altered unit at the top of the interval followed by a fine grain unhedral K-feldspar carbonate altered basalt. (78.15-78.56) to somewhat ophitic basalt(79.3-80.4).Overall fracturing is at 30-40 degree to core axis carbonate filled. 78.15-78.56 increase of fracturing along with very thin felsic fluid injections arratic to 35-40 degree to core axis. Bleached carbonate/apatite/sericite altered host.Alteration is alternating Carbonate/Sericite/leucoxene/medium grain package with Carbonate/Hematite/K-feldspar/Biotite/medium grain, fenitization. Mineralization is trace to 1% fine grain pyrite disseminatedominated overall with up to 2% where increased K-Feldspar spotty (78.9-89 rusty Pyrite/Pyrrhotite , Chalcopyrite aggregates, trace Arsenopyrite). 78-79 Au=2.685 gpt.	78.00	79.00		V472824	**2.6500**	Au-ICP21	VO20089187
			79.00	80.00		V472826	**0.3780**	Au-ICP21	VO20089187
77.66	80.40	CB; SR; HM **carbonatization; Séricitisation; Hématisation** Carbonate/sericite alteration with stronger silicification where felsic.Strong hematite/k, stronger fe-carb,Mineralized trace to 0.5% fine-grain pyrite.							
77.66	80.40	PY00.5 **Pyrite 0.5%** mineralized trace to 0.5% fine-grain pyrite.							

From	To	Description
80.40	**81.56**	I2D; PO **Syénite 60°; Porphyrique** Syenite. Grey to beige porphyritic.mm fedspar,quartz/carbonate filled fractures, mostly at 70-80 degree to core axis. <10% carbonate veinlet at 60 degree to core axis.Fe-carbonate patches with sericite flakes to intergranular. Moderate carbonateontization. Hematite/K-feldspar-feldspar patchesmagnetite specularite.Increaze to strong hematite/K-feldspar, stronger Fe-carbonate,(81-81.56).Mineralization is trace to 0.5% fine grain pyrite.Lower contact is at 60 degree to core axis.Microfractured syenite. <10% carbonate veining at 75 degree ca.
80.40	81.56	HM; CB **Hématisation; carbonatization** Strong hematite/k, stronger Fe-carb.
80.40	81.56	FA 75 **Fracturé(e) 75°** qtz/carbonate filled fracture, 70-80 degree to-core-axis. <10% carbonate veinlet at 60 degree to-core-axis.

From	To	SampleID	Au (ppm)	Method	Certificate
80.00	81.00	V472827	0.0760	Au-ICP21	VO20089187
81.00	82.00	V472828	**0.6170**	Au-ICP21	VO20089187

From	To	Description
81.56	**88.47**	V3B V3B (I2D) **Basalte; Basalte avec 5 à 25% de syénite 55°** Basalt with <25% syenite dark. Reddish, to green, aphanitic, to fine grain.Altered, with carbonate/chlorite filled fracturing, erratic to approx, 60 degree to core axis.Strong fenitization with carbonateonitization alternating. Patchy fe-carbonate, hematite, potassic alteration. Amphibole replacement around the contact.Mineralization is trace pyrite 0.5-1% pyriteoverall.Locally:83.5m-84m up to 3% fine grain pyrite disseminated strong fenitization 86.4m-87m-up to 3% fine grain pyrite disseminated syenite digestion.87.6m-87.9m 2-3% fine grain pyrite disseminated syenite digestion.Lower contact at 55 degree to core axis.81.56-100m.Basalt with <2-5% syenite.Green to reddish, with alternating ophitic basalt(81.56-83.8) with aphanitic patches basalt. Feldspar is fine grain, anhedral carbonate (ophitic) altered to fully altered. Fracturing is uniform carbonate filling fractures from 40-75 degree to core axis in ophitic textured basalt with erratic hairline to 75 degree to core

From	To	SampleID	Au (ppm)	Method	Certificate
82.00	83.00	V472829	**0.1510**	Au-ICP21	VO20089187
83.00	84.00	V472830	**0.1410**	Au-ICP21	VO20089187
84.00	85.00	V472831	**0.3920**	Au-ICP21	VO20089187
85.00	86.00	V472832	**0.1530**	Au-ICP21	VO20089187
86.00	87.00	V472833	**0.3280**	Au-ICP21	VO20089187
87.00	88.00	V472834	**0.4730**	Au-ICP21	VO20089187
88.00	89.00	V472835	**0.7990**	Au-ICP21	VO20089187

axis carbonate fractures to veinlets with magnetite rims. S3 30 degree to core axis fractures witn minor boudinaged carbonate veinlets at around (84.9-85.2) with anomlaous apatite/K-feldspar-feldspar patches. Mineralized at 2-4% fine grain pyriteto fracture filling irregular pattern.Increase of felsic fluids to syenite injections around 85.4 down apex. Mostly at 60-75 degree to core axis overall.

87.5-88 fractured zone with criss-cross fracturing. One thin mm size late syenite at 30 degree to core axis with concordant fracturing(87.6). Strong pink carbonate apatite rich immediate at irregular contact. Strong apatite, carbonate, hematite, leucoxene package. Chlorite. Mineralized at 3-4% very fine grain to fine grain decreasing.

88.4-88.7 Fault zone at 20 degree to core axis. Tectonic breccia subsections, 1-3cm wide irregular, poorly sorted. Angular fragments, Polygenetic. (Lapilli lookalike? not convinced in pyroclastic shape) No cohesion. Crystaline carbonate cement. Matrix is carbonate/silicification/potassic alteration/sericite/hematite package. Apatite veinlets to staining are always present. Elevated REE's.90 degree to core axis Tension gashes carbonate filled with magnetite specs inside. Mineralized at 3-5% very fine grain to fine grain Pyrite/Pyrrhotite in host disseminated with trace Chalcopyrite.88-89 Au=0.799 gpt (Breccia controlled/syenite?).89.2-89.6 Digested basalt. Greenish with few light bluish, and light orangeish, aphanitic, with increase of faint porphyritc K-feldspar, equigranular syenite. <20% carbonate altered syenite. Mostly at around 60 degree to core axis. Contacts are distinguished, sheared at 60 degree to core axis. Syenite is microfractured fragments to penetrative injections (89.2-89.30, 89.5-89.68), with fractured edges. Fractures are chlorite/magnetite filled, with occassionally pyrite. Weak shear deformation mostly in the flanks the syenite, with very thin mylonite to preferred fabrics.Alteration is mostly carbonate with anmolaous apatite. Elevated REE's. Apatite is subrounded to irregult spots to patches with magnetite specs overprints. K-feldspar/Carbonate/Hematite/Biotite fenitized basalt with rare mm size. Sericite/Carbonate/pyrite bands, overall. Leucoxene semipervasive. Magnetite.Mineralization is up to 4-5% very fine grain to fine grain disseminated to few pyrite stringers. Shear controlled.(89.2-89.3, 89.5-89.68) Magnetite.

89-90 Au=0.843 gpt (syenite controlled).95-95.3 syenite, pink, porphyritic, equigranular K-felspar. Sharp contacts, at 75 degree to core axis, to flattening out to lower contact, possible multiple pulsation. Microfractured syenite. Fracturing is moderate with increase of tension gashes from 95.3-96.2. One late flat lying fracture/fault?, chlorite/pyrite/carbonate filled from 95.3-96.2 cross cutting geology with few mm size offsets in carbonate filled veinets.(95.8). Host is strongly K-feldspar/Carbonate/HE fenitized digested

basalt with intense altertion increasing down apex. Leucoxene semipervasive. Magnetite. Mineralization is trace pyrite disseminated with magnetite overall with up to 1% fine grain pyrite disseminated and trace. Chalcopyrite in syenite, speculaite veinlets(95.1-95.2).96.2-98.4 Unit is excessively light greysh/bluish with pale orangeish patches alternating with dark green patches. Aphanitic with total lack feldspar. Possible pale orangeish apatite saturated (altered?) carbonate at the top of interval(96.2-97) Sharp dinsctive upper contacts with carbonate filled tension gashes terminating at the contact. Unit appears sheared with stretching/boudinaged as a whole, with preferred fabric inside. Moderate short fracturing inside the unit. Apatite replacement to possible syn/saturated hydrothermal fluids, decreasing with carbonate taking over pervasively down apex. Leucoxene alteration low density. Hematite/Carbonate//chlorite/K-feldspar-feldspar patches in mafic. PO4=86.21%, Ca=23.62%, SiO2=9.24%, Fe=3.90%, Ce=3530, La=1160, Pr=520, As=150.Host is strong fenitized fully digested basalt. Strong hematite/Carbonate/BI/AMPH with anomalous apatite and REE's. Leucoxene alteration. Option 1. Late apatite saturated carbonateonaite shallow magneticdifferentiation with later shear ductile event.Option 2. Older apatite altered rock(possble REE's old charge) with periodically recharge of enriched REES's magnetic.Mineralizationis NOT apatite controlled. Overall Mineralization is up to 3-4% very fine grain to fine grain pyrite disseminated, throughout the interval. Trace Chalcopyrite blebs. Late magnetite specs apatite overprint.Lower contact is sharp at 40 degree to core axis. Shear/litho foliation controld.

98.4-99.8 Shear zone.Alternating fully digested fenitzed, dark green basalt with carbonate rock(apatite anomlaous REE's) Aphanitic. <2-3% faint porphyritic syenitethin injections, concordant with gradual contacts. Microfractured. Thin short greyish amphibole needles rims at the contact(98.7).Sheared unit at 45 degree to core axis, Chlorite/biotite/chlorite folia with thin phyllite mm size. Boudinaged fenitized mafic, aligned, concordant overall shear foliation. Decrease of the intesity after 99.03m down apex. Unit is apparently of CB hematite/chlorite/K-feldspar-feldspar fenitization with apatite alteration overprint (old saturation?) to veinlets.Mineralizationis trace to 1% irregular pyritefine grain blebs overall with late higher concentrations in and around late syenite incetions(98.7).Shear intesity decreases down apex with <60% shear foliation planes from 99.02-99.8m.Mineralizationis very fine grain to fine grain pyrite disseminated to pyrite stringers(syenite controlled).

86.40 87.00 I2D; PO

Syénite; Porphyrique

Up to 3% fine-grain pyrite disseminated syenite digestion.

87.60	87.90	I2D; PO **Syénite; Porphyrique** 2-3% fine-grain pyrite disseminated syenite digestion.
81.56	83.50	CB; HM **carbonatization; Hématisation** Carbonitization and patchy fe-carb, hematite.
83.50	84.00	CB; HM; FK **carbonatization; Hématisation; Altération en feldspath potassique** Strong fenitization.
84.00	86.40	CB; HM **carbonatization; Hématisation** Carbonitization and patchy fe-carb, hematite.
86.40	87.00	FK; CB; HM **Altération en feldspath potassique; carbonatization; Hématisation** 86.4m-87m-up to 3% fine-grain pyrite disseminated sye digestion.
87.00	87.60	CB; HM **carbonatization; Hématisation** Carbonitization and patchy fe-carb, hematite.
87.60	87.90	HM; CB; FK **Hématisation; carbonatization; Altération en feldspath potassique** 87.6m-87.9m 2-3% fine-grain pyrite disseminated Sye digestion.
87.90	88.47	CB; HM **carbonatization; Hématisation** Carbonitization and patchy fe-carb, hematite.
80.40	83.50	PY00.5 **Pyrite 0.5%** mineralized trace to 0.5% fine-grain pyrite.
83.50	84.00	PY03 **Pyrite 3%** up to 3% fine-grain pyrite disseminated
84.00	86.40	PY00.5 **Pyrite 0.5%** Trace pyrite 0.5-1% pyrite overall
86.40	87.00	PY03 **Pyrite 3%** up to 3% fine-grain pyrite disseminated syenite digestion

87.00	87.60	PY00.5 **Pyrite 0.5%** Trace pyrite 0.5-1% pyrite overall
87.60	87.90	PY03 **Pyrite 3%** 2-3% fine-grain pyrite disseminated syenite digestion
87.90	88.47	HS00.5 **Spécularite 0.5%** Trace pyrite
81.56	88.47	FA **Fracturé(e)** altered, with carbonate/chlorite filled fractures erratic to approx, 60 degree to-core-axis

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
88.47	**88.88**	I2D; PO **Syénite 30°; Porphyrique** Syenite.Reddish to orangeish, altered. porphyritic, coarse to medium grain, feldspar elongated. Shear deformation at 50 degree to core axis.Silicification, carbonatisation with weak to moderate sericite flakes. Hematite with Fe-carbonate.Mineralization at 4% fine grain pyrite disseminated.Lower contact at 30 degree to core axis.							
88.47	88.88	CB; HM; SI **carbonatization; Hématisation; Silicification** Carbonate with weak to moderate sericite flakes.Hematite with Fe-carbonate.							
88.47	88.88	PY04 **Pyrite 4%** mineralized at 4% fine-grain pyrite disseminated.							
88.47	88.88	CS **Cisaillé(e) 50°** sheared at 50 degree to-core-axis			50				

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

88.88	**97.89**	V3B (I2D); AP					
		Basalte avec 5 à 25% de syénite 55°; Aphanitique					
		Basalt with <25% syenite.Magnetic, dark green to dark reddish, aphanitic.<5% carbonate filled fracturing at 35-40 degree to core axis dm spaced. Strong carbonatisation with strong hematite overprinitng. Silicification is moderate to strong where felsic.					
		Alternating carbonate/hematite/K-feldspar-feldspar alteration to somwhat concordant banding.Few mm size penetrative syenite injections to fragmets, elongated to rare boudins.Elongated biotite/chlorite replacement (actinolite druzze) signature.Mostly sheared unit at 35 degree to core axis with <2% late flat lying siliica/carbonate filling fractures.Strong fenitization, Fe-carbonate patches.					
		Silicification is strong and patchy. Carbonate/hematite alteration is the chief alteration with potassium alteration patches.					
		Mineralization is up to 1% fine grain pyrite disseminated overall with up to 2-3% locally where felsic.					
		Locally:89m-89.8m carbonate replacent with strong Fe carbonate patches syenite.91.46m-91.62m syenite fragment related 95m-95.2m syenite related.					
		Lower contact is at 55 degree to core axis.					
89.00	89.90	I2D; PO					
		Syénite; Porphyrique					
		Carbonate replacing epidote with strong Fe carbonate patches digested syenite.					
91.46	91.62	I2D; PO					
		Syénite; Porphyrique					
		Syenite fragment related.					
95.00	95.20	I2D; PO					
		Syénite; Porphyrique					
		Syenite related.					
88.88	97.89	CB; FK; HM; SI					
		carbonatization; Altération en feldspath potassique; Hématisation; Silicifi					
		Strong fenitization, Fe-carb patches. Silicification is strong and patchy. carbonate/hematite is the chief alteration with potassium patches.					
88.88	98.40	PY01					
		Pyrite 1%					
		Mineralized up to 1% fine-grain pyrite disseminated overall with up to 2-					

89.00	90.00	V472836	**0.8430**	Au-ICP21	VO20089187
90.00	91.00	V472837	0.0490	Au-ICP21	VO20089187
91.00	92.00	V472838	**0.2370**	Au-ICP21	VO20089187
92.00	93.00	V472839	**0.1330**	Au-ICP21	VO20089187
93.00	94.00	V472841	0.0170	Au-ICP21	VO20089187
94.00	95.00	V472842	**0.1920**	Au-ICP21	VO20089187
95.00	96.00	V472843	0.0070	Au-ICP21	VO20089187
96.00	97.00	V472844	0.0150	Au-ICP21	VO20089187
97.00	98.00	V472845	0.0430	Au-ICP21	VO20089187

3% locally where felsic.

88.88 97.89 CS 35

Cisaillé(e) 35°

Mostly sheared unit at 35 degree to-core-axis with <2%late flat lying silica/carbonate filling fractures.

From	To	Description
97.89	**117.75**	V3B (I2D); AP **Basalte avec 5 à 25% de syénite; Aphanitique** Basalt, with <5% syenite. Green, to dark reddish, aphanitic to Epidote green, patchy magnetic. Somewhat gabbroic.Weakly fractured with carbonate filled fractures at around 25-40 degree to core axis.Epidote alteration, with alternating fenitizatn. 98.4m-99m sheared basalt, strongly carbonate with chlorite/biotite/carbonate related. Hematite/K-feldspar alteration bandingFe-carbonate. Mineralized up to 1% pyrite. 99.3m-99.5m basalt strong K-Feldspar/hematite/carbonate fenites. Mineralized up to 1% fine grain pyrite.99.5m-100.5m strong fentization, Fe-carbonate patches. 100.4m-101.2m strong semipervasive Epidotization, gabbroic texture,carbonate/hematite/Fe-carbonate alteration, with patchy strong sericite/K-feldspar siliceous altered felsic. Stronger chlorite/magnetic filling fractures at 55 degree to core axis to mm size disseminatedoultion cavities. Mineralization is trace to 1% fine grain fracture filling. 103.7m-108.2m strong Epidotization, gabbroic, text. Mineralized up to 1% Pyrite. 106.3m-106.7m strong fenites. Fe-carbonate with up to 2% mf to fine grain pyrite stringers to fracture filling moderate extensional veinlet at 75 degree to core axis. 108.7m-109.34m reddish aphanitic basalt with <5% syenite digestion, faint porphyritic fragments, strong fenitization. Trace to 0.5% pyrite. One 55 degree to core axis carbonateinate vein at 109.75m. 110.6m-111m carbonate syenite. Fe-carbonate. Mineralized up to 3% medium

From	To	Len	SampleID	Au (ppm)	Method	Certificate
98.00	99.00		V472846	**0.1900**	Au-ICP21	VO20089187
99.00	100.00		V472847	0.0700	Au-ICP21	VO20089187
100.00	101.00		V472848	0.0150	Au-ICP21	VO20089187
101.00	102.00		V472849	**0.3160**	Au-ICP21	VO20089187
102.00	103.00		V472850	0.0450	Au-ICP21	VO20089187
103.00	104.00		V472851	0.0170	Au-ICP21	VO20089187
104.00	105.00		V472852	0.0300	Au-ICP21	VO20089187
105.00	106.00		V472853	**0.9710**	Au-ICP21	VO20089187
106.00	107.00		V472854	**0.9780**	Au-ICP21	VO20089187
107.00	108.00		V472855	0.0120	Au-ICP21	VO20089187
108.00	109.00		V472857	0.0120	Au-ICP21	VO20089187
109.00	110.00		V472858	0.0190	Au-ICP21	VO20089187
110.00	111.00		V472859	**0.8490**	Au-ICP21	VO20089187
111.00	112.00		V472860	**1.2150**	Au-ICP21	VO20089187
112.00	113.00		V472861	**0.2290**	Au-ICP21	VO20089187
113.00	114.00		V472862	**0.2620**	Au-ICP21	VO20089187
114.00	115.00		V472863	0.0140	Au-ICP21	VO20089187
115.00	116.00		V472864	**0.2070**	Au-ICP21	VO20089187
116.00	117.00		V472865	**0.1680**	Au-ICP21	VO20089187
117.00	118.00		V472866	0.0410	Au-ICP21	VO20089187

grain to fine grain Py.

111-112.3m Fe-carbonate basalt/syenite, denser chlorite/carbonate/pyrite fracturing. Mineralization zone. 4-5% medium grain to fine grain pyrite stringers.

112.5m-119.6m basalt fenitized, aphanitic, <5% syenite injections, 112.5m-112.8m 30% carbonate flat lying extensional veinlet at 20 degree to core axis with up to 3% pyrite stringers to disseminated.Mineralized up to 1-2% pyrite overall.99.8-108.9 Mostly basalt, green to light green, ophitic to gabbroic. Altered fine grain K-feldspar unhedral. <2-3% carbonate altered pale pink syenite injections, porphyritic.(101-101.2, 105.5) to rare fragments(105.9-106.1).Fractured unit with erratic fracturing at high angle to core axis. <5% 30 degree to core axis late pink carbonate (103.8-104.3) with apatite altered rims. Syenite injections are at 65-75 degree to core axis. Fractures are mostly carbonate filled with occassionally specularite/ to veinlet/magnetite.Alteration is an altertenanting K-feldspar/CarbonatehematiteCHL (99.8-100.5, 101.27-103.8, 106.1-106.7) with propyllitic alteration EP/Carbonate//chlorite/SE (100.5-101.27, 103.8-106.1, 106.7-108.2) with diferent intesity. Alteration haloes have gradual contacts.

Apatite is present on both type of alterations with peripheral intese apatite/REE's rocks(possible old carbonate?) at (103.8, 106.1, 106.5, 108.7-108.9).

109.6-110.2m. Possible flow (breccia?) Fault zone. 109.6 one pink acrbonate at 75 degree to core axis <0.5cm offset, hairline fault. Strong CB/SE rims.

109.74-109.86 possible core zone/flow breccia. Brecciated, angular crystaline carbonate altered fragments with faint pink apatite altered fragments(carbonate?) Cement is strong CB/SE. Matrix is K-feldspar/Apatite altered host. Breccia sits at 70 degree to core axis. CB/SE possible Ep filled tension gashes.

109.95-110 to thin faulted carbonate unit with 2 cm offset. Trace pyrite.

110.7-111m. Possible tectonic breccia at 75 degree to core axis, brecciated with microfractured pink apatite altered fragments. Polygenic clast. Greyish carbonate matrix. Trace pyrite.

111.8-111.9 Strongly fractured unit with <30% crackle breccia at 20 degree to core axis. Monogenic clasts, dark pink possible fully digested mafic?. Strong potassic alteration with stong carbonatisation.hematite.Apatite anomalous along with REE's Ce=1580. Mineralized 8-10% very fine grain to fine grain pyrite disseminated to stringers, fracture filling with trace Chalcopyrite

blebs.111-112 Au=1.215 gpt. Breccia controlled.

111.9-113.3 Strongly fractured zone. Host is potassic altered syenite with microfractured to microbrecciated K-feldspar crystal, medium granulation, subhedral. <2-3% crckle breccia (microbreccia) at 112.1-112,2 at around 70 degree to core axis with styliolitic fracturing. Mineralized at 5-7% very fine grain to fine grain pyritefracture filling to disseminated. Carbonate/Pyrite/magnetite filled fractures. Host is strongly potassic altered with common CB/apetite anomlaous alteration. Hematite and chlorite/biotite are patchy. Apatite is patchy to somewhat veining (112.5-112.7) flat lying at 10-20 degree to core axis.

113.3--116.7 abundant tension gashes at around 60-65 degree to core axis, carbonate filled, with erratic S3 carbonate fracturing. <20% pink porphyritic syenite, medium K-feldspar granulations with an average 40-50 degree to core axis distinguished contacts. Syenite fragments from 116.3-116.7, irregular sharp contacts. Host is carbonate/potassic matrix. Mineralization is irregular pattern syenite contrilled. 4-5% fine grain pyrite disseminated to blebs syenite contrilled to stringers. Chalcopyrite trace to 1% overall. Magnetite overprinting apatite fragments.

110.60 111.00 I2D; PO

Syénite; Porphyrique

Carbonatized syenite, Fe-carbonate Mineralized up to 3% medium-grain to fine-grain pyrite.

111.00 111.30 I2D (V3B)

Syénite avec 5 à 25% de basalte

Fe-carbonate basalt/I2D, denser chlorite/carbonate/pyrite fracturing. Mineralization zone, 4-5% medium-grain to fine-grain pyrite stringers.

112.50 119.60 V3B (I2D)

Basalte avec 5 à 25% de syénite

Basalt fenitized, aphanitic, <5% syenite injections.

98.40 99.30 CB; BO; HM

carbonatization; Biotitisation; Hématisation

Strongly carbonitized with chlorote/biotite/carbonate carbonatite related. Hematite/k-feldspar alteration bandingFe-carbonate mineralized up to 1% pyrite.

99.30 99.50 HM; CB; FK

Hématisation; carbonatization; Altération en feldspath potassique

99.3m-99.5m basalt strong k-feldspar/hematiteatte/carbonate fenites. mineralized up to 1% fine-grain pyrite.

99.50	100.50	FK; CB; HM
		Altération en feldspath potassique; carbonatization; Hématisation
		99.5m-100.5m strong fentization, Fe-carbonate patches.
100.50	101.20	EP; CB; MG; HM; SI
		Épidotisation; carbonatization; Magnétite; Hématisation; Silicification
		Strong semipervasive Epidotization, gabbroic texture,carbonate/hematiteFe-carbonate, with patchy strong sericite/k-feldspar siliceous altered felsic.
101.20	103.70	EP; CB
		Épidotisation; carbonatization
		Carbonate/Epidote
103.70	106.30	EP; CB
		Épidotisation; carbonatization
		Strong Epidotization, gabbroic.
106.30	106.70	FK; CB; HM
		Altération en feldspath potassique; carbonatization; Hématisation
		Strong fenites, Fe-carbonate.
106.70	108.70	EP; CB
		Épidotisation; carbonatization
		Strong Epidotization.
108.70	109.34	CB; FK; HM
		carbonatization; Altération en feldspath potassique; Hématisation
		Reddish aphanitic basalt with <5% sye digestion, faint porph'c frags, strong fenitization. Trace to 0.5% pyrite.
109.34	110.60	EP; CB
		Épidotisation; carbonatization
		Ep alteration, fenitization alternating.
110.60	111.00	CB
		carbonatization
		Carbonatized syenite, Fe-carb.
111.00	111.50	CB; HM
		carbonatization; Hématisation
		Carbonate altered V3B/I2D, denser chlorite/carbonate/pyrite.
111.50	112.50	CB; HM
		carbonatization; Hématisation
		Fe-carb.
112.50	112.80	HM; CB; FK
		Hématisation; carbonatization; Altération en feldspath potassique
		V3B fenitized, aphanitic, <5% syen injections.

112.80	117.75	CB; EP	
		carbonatization; Épidotisation	
		Ep alteration, fenitization alternating.	
98.40	99.30	PY01	
		Pyrite 1%	
		Mineralized up to 1% pyrite	
99.30	100.50	PY01	
		Pyrite 1%	
		mineralized up to 1% fine-grain pyrite	
100.50	103.70	PY01	
		Pyrite 1%	
		mineralized trace to 1% fine-grain fracture filling.	
103.70	108.70	PY01	
		Pyrite 1%	
		mineralized up to 1% pyrite	
108.70	109.34	PY00.5	
		Pyrite 0.5%	
		trace to 0.5% pyrite.	
109.34	110.60	PY02	
		Pyrite 2%	
		mineralized up to 1-2% pyrite overall	
110.60	111.00	PY03	
		Pyrite 3%	
		mineralized up to 3% medium-grain to fine-grain pyrite	
111.00	111.30	PY05	
		Pyrite 5%	
		Fe-carb V3B/I2D, denser chlorite/carbonate/pyrite fracturing, Mineralization zone, 4-5% medium-grain to fine-grain pyrite stringers.	
111.30	117.75	PY02	
		Pyrite 2%	
		mineralized up to 1-2% pyrite overall	
98.40	99.00	CS	
		Cisaillé(e)	
		sheared basalt strongly carbonatized	
100.50	101.20	FA	55
		Fracturé(e) 55°	
		stronger chloritic/mag filling fractures at 55 degree to-core-axis to mm size dissoultion cavities.	

111.00 111.30 FA

Fracturé(e)

fe-carb basalt/I2D, denser chlorite/carbonate/pyrite fracturing, Mineralization zone, 4-5% medium-grain to fine-grain pyrite stringers.

From	To	Description
117.75	**127.00**	V3B (I2D); AP; BQ **Basalte avec 5 à 25% de syénite; Aphanitique; Brèche de coulée** Basalt. Patchy magnetic, with up to 25% syenite. grey to reddish spots. Fine grain/aphanitic to gabbroic, faint mm size alkali feldspar with 20% elevated REE's carbonate vein to veinlet carbonate related.Sparse carbonate filled fractures erratic to 45-50 degree to core axis.Epidotized basalt intruded by medium grain. Syenite, strong silicification sections, pseudobrecciated(flow top?) with flow breccia, aphanitic, carbonate cement. Breccia at 120.4-120.8 with angular carbonate'e fragments. Fe-carbonate/ chl hematite/K-feldspar alteration patches. Moderate sericite, Mineralized up to 1-2% fine grain pyrite (119m-121m). Strong carbonatisation overall with K alteration patches. Patchy semipervsive biotite.Fenitzation is moderate, increasing.Mineralized at 1-2% fine grain pyrite dissemied. 116.75-126.8 mostly digested basalt, with <5% porphyritic syenite to fragments.Greenish patches alternating with light greysh/bluish hue, faint ophitic to aphanitic, with irregular anhedrall k-feldspar density. Porphyritic textures, equigranular syenites (117.28-118) to irregular porphyritic syenite fragmens(124.5-124.8)t with mostly distinguished contacts. <40 degree to core axis late brecciated crystalline carbonate veining to breccia cement. Irregular pattern with sharp contacts. Angular reddish fenitized fragments with apatite altered fragments to apatite veining fragments. (120.4-120.8) Fault Zone 116.7-126.8m. 116.7-116.8 <25% tectonic breccia at 40 degree to core axis. Shear mylonite sharp contacts. Potassic cement. Angluar felsic fragments, poorly sorted. Marks up the upper contact for the fault zone. Trace Pyrite, 120.4-120.8 One tectonic breccia at 50 degree to core axis. Angular fragments with microfractured k-feldspar porphyritic syenite fragments with angular apatite altered vein fragments, polygenic, poorly sorted. carbonate cement. Trace pyrite. Dense offsets with abundant hairline faults, erratic. Stepping (126-126.4). Alteration is strong pervasive carbonate/semipervasive patches

From	To	Len	SampleID	Au (ppm)	Method	Certificate
118.00	119.00		V472867	0.0270	Au-ICP21	VO20089187
119.00	120.00		V472868	0.0710	Au-ICP21	VO20089187
120.00	121.00		V472869	**0.1730**	Au-ICP21	VO20089187
121.00	122.00		V472870	0.0170	Au-ICP21	VO20089187
122.00	123.00		V472871	0.0130	Au-ICP21	VO20089187
123.00	124.00		V472872	0.0090	Au-ICP21	VO20089187
124.00	125.00		V472874	**0.3720**	Au-ICP21	VO20089187
125.00	126.00		V472875	0.0080	Au-ICP21	VO20089187
126.00	127.00		V472876	**0.1470**	Au-ICP21	VO20089187

sericite/semipervasive leucoxene/pervasive apatite package, lack of silicification and Pyrite mineraliztion. Cacification. Elevetaed REE's with one pink carbonate at 124.2-124.4 with sharp irregular contacts

126.8-129.4 fracture Zone. <10 breccia zone. Reddish to dark pinkish fully digested basalt, aphanitic. Fractured unit erratic fractures with late S3 at 40 degree to core axis cross-cutting. Fractures are chlorite/magnetite filled.

126.9-127.16 Breccia zone. Upper contact is strongly sheared with mylonite defined at 40 degree to core axis, followed by strong shear foliation, boudinaged carbonate fragments, concordant. Host is strong potassic/cabonate/hematiteaitte altered matrix. Strong fracturing with crakle breccia at 127.16 at 40 degree to core axis, monogeinc, potassic/carbonate altered clasts. Clasts are microbrecciated and microfractured. Matrix is the same as the shear zone. Mineralization is 3-4% very fine grain to fine grain pyrite disseminate dominated mostly microbrecciated syenite fragments controlled.

128-129 Au=1.375 Au.

117.75 127.00 CB; FK; EP; BO; HM

carbonatization; Altération en feldspath potassique; Épidotisation; Biotiti

Strong carbonatization overall with K alteration patches. patchy semipervasive biotite. Fenitzation is moderate increasing.Epidotized basalt intruded by medi'm grain syenite, strong silicification sections, pseudobrecciated(flow top?) with flow breccia, aphanitic, carb cement, Fe-carbonate/ chl hematite/k-feldspar patches.moderate sericite.

117.75 127.00 PY02

Pyrite 2%

mineralized at 1-2% fine-grain pyrite disseminated

From	To	Description
127.00	**129.40**	V3B AP **Basalte 30°; Aphanitique** Basalt with <5% syenite digested.Magnetic, dark reddish , aphanitic.Moderate sheared basalt, at ¬30 degree to core axis, strong fenites, with biotite/chlorite alteration replacements. Mineralized at trace to 0.5% fine grain pyrite.Lower contact at 30 degree to core axis.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
127.00	128.00		V472877	**0.3090**	Au-ICP21	VO20089187
128.00	129.00		V472878	**1.3750**	Au-ICP21	VO20089187

127.00 129.40 HM; CB; FK; BO

Hématisation; carbonatization; Altération en feldspath potassique; Biotiti

Strong fenites, with bio/clorite replacments.

127.00 129.40 PY00.5

Pyrite 0.5%

Mineralized at trace to 0.5% fine-grain pyrite.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
129.40	**131.40**	V3B AP	129.00	130.00		V472879	**0.2120**	Au-ICP21	VO20089187
		Basalte; Aphanitique	130.00	131.00		V472880	**0.2150**	Au-ICP21	VO20089187
		Basalt.Grey, aphanitic.Fractured unit with silica filled hairline erratic fracture network.Intense silicification, with carbonate/hematite alteration package, increasing. Mineralized 1-2% pyrite disseminated.Lower contact graditional.							

129.40 131.40 SI; CB; HM

Silicification; carbonatization; Hématisation

Intense silicified basalts, carbonate/hematite increasing.

129.40 131.40 PY02

Pyrite 2%

mineralized 1-2% pyrite disseminated .

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
131.40	**134.60**	V3B AP	131.00	132.00		V472881	0.0720	Au-ICP21	VO20089187
		Basalte; Aphanitique	132.00	133.00		V472882	0.0190	Au-ICP21	VO20089187
		Basalt.Green, fine grain, somewhat gabbroic texture.Non deformed with rare carbonate filled fracturing. One medium porphyritic, syenite, Fe-carbonate, silicified, at 132.18m-132.5m. Strongy sil'd/pyrite fractured erratic to 50-60 degree to core axis, with up to 3% pyritefracture filling. One syenite fragment at 134.65m-134.9m similiar to previous interval with Mineralized up to 2-3% fine grain to pyrite stringers.Moderate semipervasive epidotization alternating leucoxene alteration.Mineralized at 1% pyriteoverall.Crackle Breccia at 70 degree to core axis, matrix is monogenic, protolith is porphyritic syenite. Weak magnetic at the lower contact.Chlorite/carbonate fileld ruptures. Minor rotations in clasts.40 degree to core axis late carbonate filled fractures with rare pyrite filling. Weak Sericite/pyrite thin bands with faint pinkish K-feldspar.Mineralization is late disseminated 1-3% fine grain pyrite with very rare pyrite fracture filling.	133.00	134.00		V472883	**0.4450**	Au-ICP21	VO20089187
			134.00	135.00		V472884	0.0110	Au-ICP21	VO20089187

132.18	132.50	I2D; PO	
		Syénite; Porphyrique	
		One medium poprhyric, syenite, Fe-carbonate silicified, at 132.18m-132.5m strongy silicified/pyritefractured erratic to 50-60 degree to-core-axis,with up to 3% pyrite fracture filling.	
131.40	132.18	EP; LX; CB	
		Épidotisation; Leucoxene; carbonatization	
		Moderate semipervasive epidotization alternating leucoxene alteration.	
132.18	132.50	SI; CB; HM	
		Silicification; carbonatization; Hématisation	
		One med'm porph'c, syenite, Fe-carb, silicified.	
132.50	134.65	EP; LX; CB	
		Épidotisation; Leucoxene; carbonatization	
		Moderate semipervasive epidotization alternating leucoxene alteration.	
131.40	132.18	PY01	
		Pyrite 1%	
		mineralized at 1% pyrite overall.	
132.18	132.50	PY03	
		Pyrite 3%	
		up to 3% pyrite fracture filling.	
132.50	134.65	PY01	
		Pyrite 1%	
		mineralized at 1% pyrite overall.	
132.18	132.50	T1A; FA	55
		Brèche de faille 55°; Fracturé(e)	
		strongly sil'd pyrite/ fractured erratic to 50-60 degree to-core-axis, with up to 3% pyrite fracture filling. Crackle Breccia at 70 degree to-core-axis, matrix is monogenic, protolith is porphyritic syenite. Weak MAG at the LC.Chlorite/calcite filled ruptures. Minor rotations in clasts.40 degree to-core-axis late calcite filled fractures with rare pyrite filling. Weak sericite/pyrite/ thin bands with faint pinkish K-Spar.Mineralization is late disseminated 1-3% fine-grain pyrite with very rare pyrite fracture filling.Lower contact is at 75 degree to-core-axis defined brecciated carbonate filled fault.	

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

134.60	**136.20**	I2D; FO		135.00	136.00	V472885	**1.1350**	Au-ICP21	VO20089187

Syénite 45°; Folié

Syenite.Mineralized Zone. Purplish to grey.Carbonate sheared at 20 degree to core axis, strongly fractured with silicification/carbonate/pyrite/magnetic filled fracturesFe-carbonate patches, with K-feldspar/carbonate/hematite alteration, alternating.Strong proximate carbonate unit 135m-136m.Mineralized at 8-9% fine grain pyrite to fracture filling stringers, and disseminated at 6-7% pyrite.Lower conatc at 45 degree to core axis.135.5-136.2 Possible altered syenite, aphanitic, to faint porphyritic. Fractured, erratic carbonate/chlorite/pyrite filled "stockwork" fractures.Microbrecciated syenite fragments, micro crenulations.Strong carbonatisation, potassic alteration staining to small patches. Apatite anomalous. REE's. Mineralized at 5-6% very fine grain to fine grain pyrite late disseminated style to fracture filling.135-136 Au=1.135gpt

134.65 134.90 I2D; PO

Syénite; Porphyrique

One syenitente fragment at 134.65m-134.9m similiar to previous interval with Mineralized up to 2-3% fine-grain to pyrite stringers.

134.65 134.90 SI; HM; CB

Silicification; Hématisation; carbonatization

One med'm porph'c, syenite, Fe-carb, silicified.

134.90 136.20 CB; HM; FK

carbonatization; Hématisation; Altération en feldspath potassique

Fe-carb patches, with k-feldspar/carbonate/hematite alternating.

134.65 134.90 PY03

Pyrite 3%

mineralized up to 2-3% fine-grain to pyrite stringers

134.90 136.20 PY09

Pyrite 9%

Mineralized at 8-9% fine-grain pyrite to fracture filling stringers, and disseminated. at 6-7% pyrite.

134.65 134.90 CS; FA 25

Cisaillé(e) 25°; Fracturé(e)

fractured at 55 degree to-core-axis, with mineralized up to 2-3% fine-grain to pyrite stringers.Shear Mylonite at 20 degree to-core-axis, Strong fabric orientations to milling. Host is syenite/basalt with moderate FP boudins to stretching. Shear contacts are thin mylonitic bands.Short calcite filled tension gashes in host terminating at shear contact.MIneralization is late disseminated Py, Po.

134.90	136.20	FA	20
		Fracturé(e) 20°	
		sheared at 20 degree to-core-axis, strongly fractured with sil'd/carbonate/pyrite/ /Mag filled frctures	

From	To	Description
136.20	**142.60**	V3B AP
		Basalte; Aphanitique
		Basalt <5% syenite digestion? magnetic, dark reddish to grey, aphanitic, moderate fenitescarbonate filled fractures to en-echellon off late flat to 20degree to core axis carbonate filling fractures.Fe-carbonate alteration. <10% syenite(syenite-basalt digestion?) fine grain, fenitized unit, carbonatisation, with strong silicification at (138.4m-138.8m, 140.7m-140.8m).Mineralized trace to 1% fine grain pyrite.Lower contact graditional. 134.65-134.9Shear mylonite at 20 degree to core axis, Strong fabric orientations to milling. Host is syenite/basalt with moderate FP boudins to stretching. Shear contacts are thin mylonitic bands.Short tension carbonate filled tension gashes in host terminating at shear contact.Mineralization is late disseminated Pyrite, Pyrrhotite.142.4-142.46 One carbonatite at 30 degree to core axis, light pink.Wall rock is carbonate filled tension gashes, terminating at the carbonate contact. Silicifed haloes at the contact, carbonate, potassic alteration stain.Mineralization at around 1% fine grain pyrite stringers.
138.40	138.80	I2D; PO
		Syénite; Porphyrique
		<10% syenite(syenite-basalt digestion?) fine grain, fenitized , carbonatization, with strong silicification .
140.70	140.80	I2D; PO
		Syénite; Porphyrique
		<10% syenite(syenite-basalt digestion?) fine grain, fenitized , carbonatization, with strong silicification.
142.39	142.44	I4Q
		Carbonatite 55°
		One carbonatite unit at 142.39m-142.44m at 55 degree to-core-axis.
136.20	138.40	CB; HM
		carbonatization; Hématisation
		Carbonatization.
138.40	138.80	SI; HM; CB; FK
		Silicification; Hématisation; carbonatization; Altération en feldspath pota
		Fenitized , carbonatization, with strong silicification.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
136.00	137.00		V472886	**0.1330**	Au-ICP21	VO20089187
137.00	138.00		V472887	**0.1310**	Au-ICP21	VO20089187
138.00	139.00		V472889	0.0350	Au-ICP21	VO20089187
139.00	140.00		V472890	0.0570	Au-ICP21	VO20089187
140.00	141.00		V472891	**0.1100**	Au-ICP21	VO20089187
141.00	142.00		V472892	0.0040	Au-ICP21	VO20089187
142.00	143.00		V472893	0.0400	Au-ICP21	VO20089187

138.80	140.70	CB; HM **carbonatization; Hématisation** Carbonatization.
140.70	140.80	SI; CB; HM; FK **Silicification; carbonatization; Hématisation; Altération en feldspath pota** Fenitized , carbonatization, with strong silicification.
140.80	142.60	CB; HM **carbonatization; Hématisation** Carbonatization.
136.20	142.60	PY01 **Pyrite 1%** mineralized trace to 1% fine-grain pyrite.
136.20	142.60	FA 20 **Fracturé(e) 20°** calcite filled fractures to en-echellon off late flat to 20degree to-core-axis calcite filling fractures.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
142.60	**144.20**	V3B AP **Basalte; Aphanitique** Basalt,magnetic, dark reddish to grey, aphanitic to somewhat porphyritic, Gabbroic texture (syenite?), low K_feldspar alteration, carbonate filled fractured at high angle to core axis,One carbonatite unit at 142.39m-142.44m at 55 degree to core axis.Overall, carbonate/hematite alteration with Fe-carbonate patches.Mineralized up to 1% pyrite disseminated.	143.00	144.00		V472894	0.0110	Au-ICP21	VO20089187

142.60	144.20	CB; HM **carbonatization; Hématisation** Carbonate/hematite with Fe-carbonate.
142.60	144.20	PY01 **Pyrite 1%** mineralized 1% pyrite disseminated

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

144.20 153.30 V3B AP

Basalte; Aphanitique

Basalt.Magnetic, green, fine grain, massive to aphanitic. Moderate fenitization, increasing, with semipervasive chlorite/biotite/leucoxene late alteration package.Locally: 147.5m-148.8m ~10% carbonate to carbonate, veining at 20 degree to core axis.150.5m-152.3m increase of medium grain Basalt with stronger semipervasive chlorite/biotite. Sheared subunit with strong fenitzation. 152.4mm-153.3m increasing silicification with denser carbonate filling hairline fractures at high angle to core axis.Mineralization trace to 0.5% fine grain pyrite disseminated.Lower contact is frctured defined.147.4-148.46 10% thin, <2cm carbonate units(2), at 20 degree to core axis.Note one late thin fault at 148.6m with mm size offset in carbonate.Host is propyllitic altered basalt(Carbonate/Chlorite/hematite leucoxene). Trace pyrite.150.57-152.73 fracture zone.Upper zone is 3cm extensional carbonate vein controlled at 80 degree to core axis, defined contacts. Trace pyrite.Host is mostly digested basalt, carbonate replaced hematite, with fossil porphyritic texture. 151-151.5 darker greenish to greysh, propilitic altered patches, chlorite/biotite?/hematite, potassic alteration. 151.5-152.73 possible crackle breccia with chlorite/pyrite filled ruptures, erratic to somewhat anastomosing. Chert nodules. The lower contact is strongly sheared at 75 degree to core axis. Carbonate altered syenite with light pink potassic staining to patches. Boudange, very thin mylonite fabrics. Concordant.Mineralization is trace pyrite with magnetite specs. Lower contact at 65 degree to core axis.

147.50 152.30 V3F

Basalte hyper-magnésien

Increase of medium-grain Basalt with stronger chlorite/biotitie semipervasive, sheared to strong fenitzation.

144.20 150.50 CB; HM; LX

carbonatization; Hématisation; Leucoxene

Moderaee fenitization to stronger, with semipervasive chlorite/biotite/leucoxene.

150.50 152.40 BO; CL; HM; CB

Biotitisation; Chloritisation; Hématisation; carbonatization

150.5m-152.3m increase of medium-grain Basalt with stronger chlorite/biotitie semipervasive, sheared to strong fenitzation.

152.40 153.30 SI

Silicification

Increasing silicification with denser calcite filling hairine fractures at high angle tca.

144.20 153.56 PY00.5

Pyrite 0.5%

144.00	145.00	V472895	0.0220	Au-ICP21	VO20089187
145.00	146.00	V472896	0.0110	Au-ICP21	VO20089187
146.00	147.00	V472897	0.0040	Au-ICP21	VO20089187
147.00	148.00	V472898	0.0080	Au-ICP21	VO20089187
148.00	149.00	V472899	0.0130	Au-ICP21	VO20089187
149.00	150.00	V472900	0.0110	Au-ICP21	VO20089187
150.00	151.00	V472901	0.0060	Au-ICP21	VO20089187
151.00	152.00	V472902	0.0070	Au-ICP21	VO20089187
152.00	153.00	V472903	0.0060	Au-ICP21	VO20089187

Mineralization trace to 0.5% fine-grain pyrite disseminated,

150.00 152.40 CS; T1A; FA 65

Cisaillé(e) 65°; Brèche de faille; Fracturé(e)

150.57-152.73 Fracture zone.Upper zone is 3cm extensional carbonate vein controlled at 80 degree to-core-axis, defined contacts. Trace pyrite.Host is mostly digested basalt, carbonate replaced calcitic, with fossil porphyritic texture. 151-151.5 darker greenish to greysh, propilitic altered patches, chlorite/biotite?/hematite, potassic alteration. 151.5-152.73 possible crackle breccia with chlorite/pyrite filled ruptures, erratic to somewhat anastomosing. The lower contact is strongly sheared at 75 degree to-core-axis. Carbonate altered syenite with light pink potassic staining to patches. Boudinage, very thin Mylonite fabrics. Concordant.Mineralization is trace pyrite with Magnetite specs.

152.40 153.30 FA

Fracturé(e)

152.4mm-153.3m increasing silicification with denser calcite filling hairine fractures at high angle to-core-axis

From	To	Description
153.30	**157.10**	I2D V3B PO
		Syénite avec 25 à 50% de basalte; Porphyrique
		Syenite with <40 basalt.
		Silicified unit, reddish, aphanitic, with faint porphyritic sections. Shear deformation at 50 degree to core axis, strong fenitization patches with late Fe-carbonate alteration overprint.
		Locally: 153.56m-153.9m 50% pinkish silicified syenite fragments with Fe-carbonate patches alternating with hematite/carbonate/K-feldspar-feldspar alteration.Mineralized is up to 1% fine grain pyrite disseminated.154.5m-154.6m silicified crackle breccia?, carbonate cement. Patchy Fe-carbonate alteration with carbonate/hematite/K-feldspar-feldspar package.Mineralization is trace to 0.5% pyre.
		154.8m-156.9m pink coarse to medium granulation, porphyritic. <40% sheared and fractured at 20-25 degree to core axis carbonate/silicified filled at 25-30 degree to core axis. Fe-carbonate patches, alternating with carbonate/hematite/ k-feldspar patches to banding. Lower contact at 70 degree to core ax.
		154.45-156 Crackle breccia (<70% of the unit) mostly in porphyritic textured

From	To	Len	SampleID	Au (ppm)	Method	Certificate
153.00	154.00		V472905	0.0630	Au-ICP21	VO20089187
154.00	155.00		V472906	**0.2590**	Au-ICP21	VO20089187
155.00	156.00		V472907	0.0760	Au-ICP21	VO20089187
156.00	157.00		V472908	**0.1050**	Au-ICP21	VO20089187

rock, polygenic.Re-worked breccia with strong felsic potassic/carbonate altered boudinaged fragments, with somewhat oriented chlorite/caclite/pyrite filled ruptures.mm size chlorite cement patches. Strong chlorite S3 fileld fracturing with patches with tension gashes where syenite injections, mostly contact controlled. Signature.Strong phylic SE/pyrite patches, with EP patches. Carbonatisation overall. Silicification/sericitization bands to patches.Mineralized by 1-3% where

153.56 153.90 I2D; PO

Syénite; Porphyrique

50% pinkish silicified syenite fragment Fe-Carbonate, , hematite/carbonate/basalt/k-feldspar with up to 1% fine-grain pyrite disseminated.

154.50 154.60 I2D; BQ

Syénite; Brèche de coulée

Sicified flow breccia?, carbonate cemen patchy Fe-carbonate, carbonate/hematite/k-feldspar Mineralized trace to 0.5% pyrite.

154.80 156.90 I2D; PO

Syénite; Porphyrique

Pink coarse to medium, porphyr'c, <40% sheared andfractured at 20-25 degree to-core-axis carbonate/silicified filled at 25-30 degree to-core-axis, Fe-carbonate alternating with carbonate/hematite/ k-feldspar banding.

Lower contact at 70 degree to-core-axis.

153.30 153.56 HM; CB; FK

Hématisation; carbonatization; Altération en feldspath potassique

Strong fenitization patches ,Fe-carb.

153.56 153.90 SI; CB; HM

Silicification; carbonatization; Hématisation

153.56m-153.9m 50% pinkish silicified syenite fragment Fe-Carbonate, hematite/carbonate/k-feldspar with up to 1% fine-grain pyrite disseminated.

153.90 154.16 CB; HM; FK

carbonatization; Hématisation; Altération en feldspath potassique

Strong fenitization patches, Fe-carb.

154.16 154.50 CB; HM

carbonatization; Hématisation

Strong fenitization patches ,Fe-carb.

154.50	154.60	HM; CB; SI	
		Hématisation; carbonatization; Silicification	
		Siicified flow breccia?, carb cemen patchy Fe-carbonate, carbonate/hematitek.mineralized trace to 0.5% pyrite.	
154.60	156.90	CB; HM; SI	
		carbonatization; Hématisation; Silicification	
		<40% sheared and fractureured at 20-25 deg tca carbonate/sil'd filled at 25-30 deg tca, Fe-carb alternating with carbonate/hematite ka banding.	
156.90	157.10	CB; HM	
		carbonatization; Hématisation	
		Strong fenitization patches ,Fe-carb.	
153.56	153.90	PY01	
		Pyrite 1%	
		up to 1% fine-grain pyrite disseminated	
153.90	154.50	PY00.5	
		Pyrite 0.5%	
		Mineralization trace to 0.5% fine-grain pyrite disseminated,	
154.50	157.10	PY00.5	
		Pyrite 0.5%	
		mineralized trace to 0.5% pyrite	
153.30	154.80	CS	50
		Cisaillé(e) 50°	
		Sheared unit	
154.80	156.90	CS; BX; FA	25
		Cisaillé(e) 25°; Bréchique; Fracturé(e)	
		<40% sheared and fractured at 20-25 degree to-core-axis carbonate/silicification'd filled at 25-30 degree to-core-axis, 154.45-156 Crackle breccia (<70% of the unit) mostly in porphyritic textured rock, polygenic.Re-worked breccia with strong felsic potassic/carbonate altered boudinaged fragments, with somewhat oriented chlorite/caclite/pyrite filled ruptures.mm size chlorite cement patches.Strong phyllic sericite/pyrite patches, with EP patches. Carbonatization overall. Silicification/sericitization bands to patches.Mineralized 1-3% where SER/SIL otherwise trace pyrite.	

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
157.10	**160.20**	V3B PO **Basalte 70°; Porphyrique** Basalt.Magnetic, greeen, aphanitic, gabbroic texture. Moderate silicification with strong semipervasive Ep/carbonate, /chlorite/biotite alteratrion package, moslty in upper unit. Minor Fe-carbonate patches.Epidotization/silicification with carbonate/silicified, K-Feldspar/hematite/carbonate fenites.Mineralized up to 1% pyrite.Lower contact at 70 degree to core axis fracture controlled.	157.00	158.00		V472909	0.0090	Au-ICP21	VO20089187
			158.00	159.00		V472910	0.0280	Au-ICP21	VO20089187
			159.00	160.00		V472911	**0.1020**	Au-ICP21	VO20089187
157.10	160.20	EP; BO; CB; HM **Épidotisation; Biotitisation; carbonatization; Hématisation** Epidotization/silicification with carbonate/sili'd, k-feldspar/hematitecarb fenites.							
157.10	160.20	PY01 **Pyrite 1%** mineralized up to 1% pyrite.							
157.10	160.20	FA **Fracturé(e)** moderate silicification with strong Ep/carbonate semipervasive, chl/bio moslty upper unit, minor Fe-carbonate patches.							
160.20	**168.30**	FAILLE; FAILLE; BX **Faille; Faille 70°; Brèche** Basalt.FAULT ZOE. Basalt is altered, aphanitic to brecciated, magnetic.Silicified, magnetite with strong K-feldspar/hematite patches.Fracture basalt with up to 10-15% sil'd filled fractures.Silicified cement with angular Fe-carbonate altered basalt fragments with carbonate/hematite/K-feldspar patches. Sericite patches to fibers. Locally:160.2m-162,2m fracture zone, carbonate/Fe-carbonate/silicified filling fractures to silica filled fractures erratic. 162.2m-168.3m Core Zone Breccia, carbonate/silicified cement.Mineralized at 1-2% pyrite.Lower contact is at 70 degree to core ax is. 160.2-162.05 fracture zone with <10% crackle breccia, small section with chlorite/magnetite filled ruptures defined clasts, monogenic, to tectonic breccia with angular mafic fragments, mm size, with light beige CB/SE aletred	160.00	161.00		V472912	0.0210	Au-ICP21	VO20089187
			161.00	162.00		V472913	0.0140	Au-ICP21	VO20089187
			162.00	163.00		V472914	0.0200	Au-ICP21	VO20089187
			163.00	164.00		V472915	0.0110	Au-ICP21	VO20089187
			164.00	165.00		V472916	0.0630	Au-ICP21	VO20089187
			165.00	166.00		V472917	0.0190	Au-ICP21	VO20089187
			166.00	167.00		V472918	**0.1600**	Au-ICP21	VO20089187
			167.00	168.00		V472919	0.0430	Au-ICP21	VO20089187

cement. Matrix is light pink CB/potassic altered(160.6-161).<20% porphyritic textured syenite fragments with irregular contacts. Microfractured.Abundant carbonate filled tension gashes, with late S3 carbonate veinlet to fracture filling from 50-75 degree to core axis.Matrix is Silicification/Sericite altered mass with phyllic alteration patches where pyritization. Carbonatisation.Mineralization is trace to 2-3% very fine grain to fine grain pyrite disseminated, to rare fracture filling.

162.05-167.4 Tectonic breccia with <10% crackle breccia subsections, angular dark magnetic mafic fragments, <1cm size, rotations, with strong sericitized cement.Carbonatisation. Fe-Cb staining to mm size specs. Erratic leucoxene. SI/SE alternating patches with fenitized patches, hematite/chlorite/carbonate. Potassic alteration/chlorite/biotite? patches. Irregular Mineralization patches, 1-2% very fine grain toto fine grain Py, disseminated, to rare mafic contour filling. Magnetite.

160.20 168.30 CB; HM; FK; SR

carbonatization; Hématisation; Altération en feldspath potassique; Séricit

Fe-carbonate altered V3B with carbonate/hematitek patches with sericite patches to fibers.

160.20 168.30 PY02

Pyrite 2%

Mineralized at 1-2% pyrite .

160.20 168.30 FJ; FA; T1A

Faille; Fracturé(e); Brèche de faille

FAULT ZONE, basalt, altered, aphanitic to brecciated, sil'd, MAG, k-feldspar/hematite/ 10-15% sil'd filled fractures, angular Fe-carbonate altered basalt with carbonate/hematite/k patches with sericite patches to fibers160.2m-162,2m fracture zone, carbonate/Fe-carbonate/silicification filling fractures to silica filled fractures erratic. 162.2m-168.3m Core Zone Breccia, carbonate/silicified cement.160.2-162.05 Fracture zone with <10% crackle breccia, small section with chlorite/magnetite filled ruptures defined clasts, monogenic, to tectonic breccia with angular mafic fragments, mm size, with light beige CB/SE altered cement. Matrix is light pink CB/potassic altered (160.6-161)<20% porphyritic textured syenite fragments with irregular contacts. Microfractured.Abundand calcite filled tension gashes, with late S3 carbonate veinlet to fracture filling from 50-75 degree to-core-axis.Matrix is SIL/SER altered mass with phyllic alteration patches where pyritization. Carbonatization.Mineralization is trace to 2-3% vfine-grain to fine-grain pyrite disseminated, to rare fracture filling162.05-167.4 Tectonic breccia with <10% crackle breccia subsections, angular dark magnetic mafic fragments, <1cm size, rotations,

with strong sericitized cement.Fracturing is S3 late carbonate filled at 70-80 degree to-core-axis, stepping to crenulation.Carbonatization. Fe-Cb staining to mm size specs. Erratic Lx. SIL/SER alternating patches with fenitized patches, HEM/CHL/CB. Potassic alteration/chlorite/biotite? patches. Irregular mineralization patches, 1-2% vfine-grain tp to fine-grain Py, disseminated, to rare mafic contour filling. Magnetite.167.4-~171 <30% crackle breccia. Strong Fracture zone.168.6-169.05 crackle breccia, monogenic, chlorite/magnetite filled ruptures. Shear/Mylonite alternating bands.<40% porphyritc syenite <2cm fragments, to <5cm irregular porphyritic textured injections. irregular contacts, mostly non-penetrative. Dark stretched, elongated mafic fragments.Matrix is CB/SE altered with darker fenitization patches where mafic(HE/Chl/CB/Bio?). Magnetite.Overall CB/SE patches, moderate silicification, small phyllic alteration patches.MIneralized at 1-2% fine-grain pyrite disseminated, fracture filling, specularite/magnetite.

From	To	Description
168.30	**170.90**	FAILLE; BX **Faille 40°; Brèche** Basalt with <40% syenite.Fault, continuation of the previous interval. Fracture ZONEBasalt with <40% syenite, decreasing brecciation with angular mafic fragments, syenite fragments to disseminated continous cm size injections.Strongly fractured unit with tight spaced silica/pyrite filled fractures. Erratic to interfragmental, with late dm spaced carbonate filled fracuring at high angle to core axis 60-75 degree to core axis.Strong carbonatizationn/Fe-carbonate with silicification, Fe-carbonate/sericite alternating with carbonate/hematite/K-feldspar patches.Mineralized up to 20% medium grain to fine grain pyrite disseminated to fracture filling.Lower contact at 40 degree to core axis.169-171.6 mostly intense fracturing with <10% crackle breccia(168.9, 170,6). Increase of pyllic alteratuion(169.9-170.5) with up to 5-6% very fine grain to fine grain pyrite disseminated. Sericite/silicified/pyrite.<5% porphyritc textured felsic injections, irregular contacts.Alternating phyllic alteration with pinkish to darker potassic alteration. Mineralized 2-5% very fine grain to fine grain disseminated to fracture filling. Specularite/magnetite.
168.30	170.90	CB; HM; SR; SI **carbonatization; Hématisation; Séricitisation; Silicification** Strong carbonatizetion/Fe-carbonate with silicificatio, Fe-carbonate/carbonate/sericite with carbonate/hematite/K patches.
168.30	170.90	PY20 **Pyrite 20%** Mineralized up to 20% medium grain to fine grain pyrite disseminated to

From	To	Len	SampleID	Au (ppm)	Method	Certificate
168.00	169.00		V472920	**0.2220**	Au-ICP21	VO20089187
169.00	170.00		V472922	**0.3620**	Au-ICP21	VO20089187
170.00	171.00		V472923	**0.2550**	Au-ICP21	VO20089187

fracture filling.

168.30 170.90 FA 70

Fracturé(e) 70°

strongly fractured with tight spaced sil'd/Sericite/pyrite/ filled fractures erratic to interfragmental, with late dm spaced carbonate filled fracturing at high angle to-core-axis 60-75 degree to-core-axis.169-171.6 mostly intense fracturing with <10% crackle breccia(168.9, 170,6) Increase of phyllic alteration (169.9-170.5) with up to 5-6% vfine-grain to fine-grain pyrite disseminated. SE/SI/pyrite/.<5% porphyritc textured felsic injections, irregular contacts.Alternating phyllic alteration with pinkish to darker potassic alteration. MIneralized 2-5% vfine-grain to fine-grain disseminated to fracture filling. Specularite/magnetite.

From	To	Description
170.90	**179.56**	V3B (I2D); AP **Basalte avec 5 à 25% de syénite; Aphanitique** Basalt with <30% syenite. 170.9m-172.6m strong carbonate/hematite/epidote/chlorite aleteration basalt with <25% reddish medium, fractured syenite, 10% fractured, at 40-60 degree to core axis carbonate filling. 172.6m-173.34m strong silicified carbonate/biotite medium grain basalt , silicified, 3-5% carbonate filled erratic fractures. Marks up the end of fracture Zone. 173.4m-175m strong fenitization/silicification, Fe-carbonate patches/carbonatisation /hematite. with K alteration where felsic. 10% carbonate filled erratic fractures to en-echellons. Mineralized trace to 1% pyrite. 174m-174.5m carbonate filled en-echellon veinlets. Upper unit is strongly carbonate. 173.3m-177.2m stronger fracturing, with 20% carbonate filled fractures(S2) and en-echellon(S3) with cm size sub- parallell sheared k-feldspar/carbonate/hematite altered syenite injections at 35-40 degree to core axis, (175.6m-176m). Mineralization is up to 1% fine grain pyrite stringers to fracture filling. 175.66-179.4m. Fault Zone. Fracture Zone. Erratic fracturing, <20% non penetrative porphyritc syenite to injections. <15cm size localized tectonic breccia, fenitized angular mm size mafic fragments, with silicifed/carbonate

From	To	Len	SampleID	Au (ppm)	Method	Certificate
171.00	172.00		V472924	0.0100	Au-ICP21	VO20089187
172.00	173.00		V472925	0.0140	Au-ICP21	VO20089187
173.00	174.00		V472926	0.0180	Au-ICP21	VO20089187
174.00	175.00		V472927	0.0120	Au-ICP21	VO20089187
175.00	176.00		V472928	0.0090	Au-ICP21	VO20089187
176.00	177.00		V472929	**0.2620**	Au-ICP21	VO20089187
177.00	178.00		V472930	**0.1230**	Au-ICP21	VO20089187
178.00	179.00		V472931	0.0080	Au-ICP21	VO20089187
179.00	180.00		V472932	0.0180	Au-ICP21	VO20089187

altered matrix. (176-176.2, 177-177.3).Fracturing is carbonate, pyrite/magnetite erratic, short to tension gashes. mm size offstes, to en-echellon.Carbonatisation, patchy hematite, potassic alteration staining.Mineralization around 2-4% fine grain pyrite disseminated to fracrure filling.

172.60 173.34 V3F

Basalte hyper-magnésien

172.6m-173.34m strong silicified carbonate/biotite medium-grain basalt , silicified, 3-5% carbonate filled erratic fractures. Marks up the end of fracture Zone.

170.90 172.60 CB; HM; EP; CL

carbonatization; Hématisation; Épidotisation; Chloritisation

Strong carbonate/hematite/epidote/chlorite aleteration.

172.60 173.34 BO; CB; SI

Biotitisation; carbonatization; Silicification

Strong silicified carbonate/biotite medium-grain basalt , silicified, 3-5% carbonate filled erratic fractureures.

173.34 175.00 SI; CB; FK; HM

Silicification; carbonatization; Altération en feldspath potassique; Hémati

173.4m-175m strong fenitization/silicification, Fe-carbonate patches/carbonatization /hematite. with K alteration where felsic.

175.00 179.56 CB; HM

carbonatization; Hématisation

Carbonate/Fe-carbonate/hematiteatatie patches around felsic.

170.90 179.56 PY01

Pyrite 1%

mineralized up to 1% fine-grain pyrite stringers to fracture filling.

170.90 179.56 FJ; FA

Faille; Fracturé(e)

10% fractured, at 40-60 degree to-core-axis calcite filling. 175.66-179.4 Fault Zone. Fracture Zone. Erratic fracturing, <20% non penetrative porphyritc syenite to injections, <15cm size localized tectonic breccia, fenitized angular mm size mafic fragments, with silicifed/carbonate altered matrix. (176-176.2, 177-177.3)Fracturing is calcite, pyrite/magnetite erratic, short to tension gashes. mm size offstes, to en-echellon.Carbonatization, patchy hematitization, potassic alteration staining.MIneralization around 2-4% fine-grain pyrite disseminated to fracture filling.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

179.56 186.00 I2D V3B BX

Syénite avec 25 à 50% de basalte; Brèche 25°

Syenite with <40% basalt.Dark reddish, porphyritic texture, altered, aphanitic, strong patchy magnetic.Part of fracture ZONE, erratic, carbonate filled fractures.

Locally:177.2m-186m Silicified tectonic Fault breccia, angular mafic fragments, carbonate cement. ~10% chlorite/Pyrite/magnetic filled fractures at 40 degree to core axis and late carbonate filled fractures to veinlet at 50-60 degree to core axis.Carbonate/Fe-carbonate/hematite alteration patches around felsic injcetions. Mineralized, up to 1% fine grain pyrite overall with 2-3% fracture filling locally. Lower contact is at 25 degree to core as.

179.4-186.1m 75% FAULT ZONE. Core Zone-Tectonic breccia, with 10% crackle breccia and ~10% shear mylonite bands(re-worked fault?).Breccia is mostly poorly sorted with a polymictic section at around 182-182.3m with dark greenish to brownish angular mafic fragments with strong hematite/biotite/carbonate and faint greenish mostly carbonate, Fe-Cb? altered felsic fragments.Metric is chrystaline carbonate/sericite with late moderate silicification. Cement is noted around polymictic breccia, silicifed.Fracturing is strong to intense erratic to crack fracturing to breecia, with chlorite/carbonate/Pyrite/magnetite filling. Late S3 crack and seal fracturing are at around 50 degree to core axis and cross cutting entire lithotectonic unit.Mineralization is up to 2% at best with irregular disseminated pyrite. Pyrite stringers to fracture filling. Magnetite/Specularite.Lower contact is approx at 70 degree to core axis, syenite controlled.

179.56 186.00 SI; CB; MG; HM

Silicification; carbonatization; Magnétite; Hématisation

Silicified Fault breccia, angular mafic frags, carboate cement, ~10% chlorite/pyrite/magnetite filled fractureures at 40 deg tca and late carbonate filled fractureures to veinlet at 50-60 deg tca.

179.56 186.00 PY02

Pyrite 2%

mineralized up to 1% fine-grain pyrite overall with 2-3% fracture filling locally

179.56 180.30 T1A; BX; FA

Brèche de faille; Bréchique; Fracturé(e)

3-5% carbonate filled erratic fractures. Marks up the end of Fracture Zone179.4-186.1 75% FAULT ZONE Core Zone-Tectonic breccia, with 10% crackle breccia and ~10% shear Mylonite bands (re-worked

180.00	181.00	V472933	0.0070	Au-ICP21	VO20089187
181.00	182.00	V472934	**0.1130**	Au-ICP21	VO20089187
182.00	183.00	V472935	**0.2900**	Au-ICP21	VO20089187
183.00	184.00	V472937	0.0060	Au-ICP21	VO20089187
184.00	185.00	V472938	0.0080	Au-ICP21	VO20089187
185.00	186.00	V472939	0.0060	Au-ICP21	VO20089187

fault?)Breccia is mostly poorly sorted with a polymictic section at around 182-182.3 with dark greenish to brownish angular mafic fragments with strong HE/BIO/CB and faint greenish mostly carbonatized, Fe-Cb? altered felsic fragments. Lower contact is defined by chaotic breccia with old crack fractures in mafic clasts.Matrix is chrystaline carbonate/sericite with late moderate silicification. Cement is noted around polymictic breccia, silicifed.Fracturing is strong to intense erratic to crack fracturing to breecia, with chlorite/calcite/pyrite/magnetite filling. Late S3 crack and seal fracturing are at around 50 degree to-core-axis and cross cutting entire lithotectonic unit.Mineralization is up to 2% at best with irregular disseminated pyrite. pyrite stringers to fracture filling. Magnetite/Specularite.

180.30	186.00	T1A; FA	40

Brèche de faille; Fracturé(e) 40°

Silicified Fault breccia, angular mafic fragments, carbonate cement, ~10% chlorite/pyrite/Mag filled fractures at 40 degree to-core-axis and late carbonate filled fractures to veinlet at 50-60 degree to-core-axis.Carbonate/Fe-carbonate/hematite patches around felsic. mineralized up to 1% fine-grain pyrite overall with 2-3% fracture filling locally 179.4-186.1 75% FAULT ZONE Core Zone-Tectonic breccia, with 10% crackle breccia and ~10% shear Mylonite bands(re-worked fault?)Breccia is mostly poorly sorted with a polymictic section at around 182-182.3 with dark greenish to brownish angular mafic fragments with strong HE/BIO/CB and faint greenish mostly carbonatized, Fe-Cb? altered felsic fragments. Lower contact is defined by chaotic breccia with old crack fractures in mafic clasts.Matrix is crystalline carbonate/sericite with late moderate silicification. Cement is noted around polymictic breccia, silicifed.Fracturing is strong to intense erratic to crack fracturing to breecia, with chlorite/calcite/pyrite/magnetite filling. Late S3 crack and seal fracturing are at around 50 degree to-core-axis and cross cutting entire lithotectonic unit.Mineralization is up to 2% at best with irregular disseminated pyrite. pyrite stringers to fracture filling. Magnetite/Specularite.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
186.00	**191.80**	I2D V3B; BX	186.00	187.00		V472940	0.0040	Au-ICP21	VO20089187
		Syénite avec 5 à 25% de basalte; Brèche	187.00	188.00		V472941	0.0050	Au-ICP21	VO20089187
		Syenite, with ~40% basalt.Mineralized ZONE,reddish to light, pinkish unit, aphanitic with porphyritic sections. Fracture zone with strong carbonate filled fracturing at 25-30 degree to core axis.Increasing fracture density down apex , mostly at 40 degree to core axis. En-echellon veinlets at 30-40 degree to core axis.Strong fenitization with strong K-feldspar/Fe-carbonate alteration patches. Fe-carbonate patches to rims around syenite fragments to cm size	188.00	189.00		V472942	0.0060	Au-ICP21	VO20089187
			189.00	190.00		V472943	0.0060	Au-ICP21	VO20089187
			190.00	191.00		V472944	0.0180	Au-ICP21	VO20089187
			191.00	192.00		V472945	0.0110	Au-ICP21	VO20089187

injcetions, to pervasive carbonatisation alternating, sericite flakes to rare sericitization patches.Locally:190.8m-191.17 one fine grain large mafic xeith.

190m-190.2m one carbonate vein/carbonate related.Mineralized at 7-8% pyritefracture filling to disseminated, overall.

186.00 191.80 CB; HM; FK

carbonatization; Hématisation; Altération en feldspath potassique

Strong fenitization with string k-feldspar/Fe-carb patches. Fe-carbonate patches to rims around syenite frags to cm size injcetions, to pervasive carbonatization alternating, sericite flakes to rare sericitization patche.

186.00 191.80 PY08

Pyrite 8%

Mineralized at 7-8% pyrite fracture filling to disseminated .

186.00 191.80 FA 40

Fracturé(e) 40°

fracturing at 25-30 degree to-core-axis increasing to end of interval, at 40 degree to-core-axis, En-echellon at 30-40 degree to-core-axis.

From	To	Description
191.80	**199.20**	I2D V3B; BX **Syénite avec 5 à 25% de basalte 35°; Brèche** Syenite.Silicified, pinkish to greyish, medium faint porphyritic. Mineralized ZONE.191.8m-192.76m silicified fine grain syenites with stronger carbonatisation. Increase /chlorite/pyritefracturing erratic. K-feldspar/hematite is present. Mineralized up to 3% fine grain to very fine grain pyrite disseminated to intergranular. 193.5m-193.7m one basalt subunit, aphanitic, beige, carbonate/sericite altered at 50 degree to core axis. Mineralized at 1-2% fine grain pyrite disseminated.192.76m-192.95 Fault breccia angular mafic/felsic cm size strongly carbonate with K-Feldspar/hematite patches mafic fragments.Mineralized up to 1% fine grain fracture filling.192.95m-195.2m silicified fine grain syenite, carbonate. Strong /chlorite/Pyrite/specularite/magnetite filled fracturing. Erratic enechellon(S3) to 35 degree to core axis terminating at 35-40 degree chlo/pyrite(S2) fractures sections <10cm core length thick. Strong carbonate/hematite/K-feldspar-feldspar patches. Sericite flakes only. Mineralization is up to 3-4% patchy.195.2m-199.2m syenite with <40% basalt, porphyritic fine to medium grain, carbonate patches ¬20% of the unit with moderate to strong carbonate/hematite and biotite/amphibole replacement.One carbonate vein fragment carbonate related at

From	To	Len	SampleID	Au (ppm)	Method	Certificate
192.00	193.00		V472946	**0.1320**	Au-ICP21	VO20089187
193.00	194.00		V472947	**0.2620**	Au-ICP21	VO20089187
194.00	195.00		V472948	**0.2110**	Au-ICP21	VO20089199
195.00	196.00		V472949	0.0580	Au-ICP21	VO20089199
196.00	197.00		V472950	0.0090	Au-ICP21	VO20089199
197.00	198.00		V472951	0.0070	Au-ICP21	VO20089199
198.00	199.00		V472953	0.0090	Au-ICP21	VO20089199

196m.197.43m-197.87 one silicified brecciated unit, angular syenite/mafic fragments, with /chlorite/pyrite/specularite filled fractures network. Strong carbonate cement with moderate sericite rims to zoning. Mineralized at 1-2% fracture filling.Lower contact os one carbonate cein defined at 75 degree to core axis,Mineralized, up to 3% fine grain to very fine grain pyrite disseminated to intergranular. Lower contact at 35 degree to core axis.

191.80 192.76 I2D; PO

Syénite; Porphyrique

Silicified fine grain syenites with stronger carbonatization. increase chlorite/pyrite fracturing erratic. K-feldspar/ Hem is present. Mineralized up to 3% fine-grain to fine-grain pyrite disseminatedto intergranular.

193.50 193.70 V3B; AP

Basalte; Aphanitique 50°

193.5m-193.7m one baslalt, aphanitic, beige, carbonate/sericiteicite altered at 50 degree to-core-axis. Mineralized at 1-2% fine-grain pyrite disseminated.

191.80 192.76 SI; CB; HM

Silicification; carbonatization; Hématisation

Silicifired fine grain syenites with stronger carbonatization. increase chlorite/pyrite fractureuring erratic. k-feldspar/hematite is present.

192.76 193.50 CB; HM

carbonatization; Hématisation

Strongly carbonitized with k-feldspar/hematite patche.

193.50 193.70 CB; SR

carbonatization; Séricitisation

One baslalt, aphanitic, beige, carbonate/sericite altered.

193.70 195.20 HM; CB; FK

Hématisation; carbonatization; Altération en feldspath potassique

Strong carbonate/hematite/k-feldspar patches. Sericite flakes only.

195.20 199.20 CB; HM; BO

carbonatization; Hématisation; Biotitisation

Carbonatized patches ¬20% of the unit with moderate to strong carbonate/carbonate/hematite and biotite/amphibole replacement.

191.80 193.50 PY03

Pyrite 3%

Mineralized up to 3% fine-grain to very-fine-grain pyrite disseminated to intergranular

193.50 195.20 PY04

Pyrite 4%

mineralized up to 3-4% pyrite patchy.

195.20 197.43 HS03

Spécularite 3%

Mineralized up to 3% fine-grain to very-fine-grain pyrite disseminated to intergranular.

197.43 199.20 PY03; PY02

Pyrite 3%; Pyrite 2%

chl/pyrite /specularite filled network 2-3% pyrite filled fracturing

192.76 195.14 T1A; BX; FJ

Brèche de faille; Bréchique; Faille

Fault breccia angular mafic/felsic cm size strongly carbonatized with k-feldspar/hematite patches mafic frags. mineralized up to 1% fine-grain fract filling.192.3-195.1 Intense crack fracturing to crackle breccia sections. Erratic chlorite/calcite/magnetite filling fractures to ruptures.

Breccia is monogenic with <10% polymictic tectonic breccia at 192.3-192.6, and 192.8 angular fenitized mafic fragments CB/SE rims and silicified felsic fragments in a fenitized cement.Local <0.5cm size cataclasite (193.5-193.9) at around 50 degree to-core-axis. Oriented angular dark greenish possible mafic clasts in a chrystalline carbonate cement.Fracturing is erratic, crack and seal, boudinaged calcite filled veinlets to fracturing with S3 at 50 degree to-core-axis. Offsets are mm size, hairline faulting.Overall matrix is carbonatized with yellowish sericite.Mineralized at 1-2% disseminated to rare fracture filling. Magnetite.

196.40 197.43 T1A; BX; FA

Brèche de faille; Bréchique; Fracturé(e)

196.4-198.3 tectonic breccia, angular fenitized mafic with strong sericite rinms. Rotation is moderate. Re-worked breccia with boudinaged fragments. Fragments already crackled with old fracturing conatined in clasts (197.7-197.8). Late crackle breccia FLAT lying with mm to <1cm with fragment offsets mm size (197-197.7). Matrix is irregular with stronger sericitization, carbonatization. Local phyllic alteration(<1-2% Py) (197.7-198.2) IMPORTANT FAULT.Interpreted Taibi tuff lithology should start in this location.

197.43 197.87 T1A; BX; FA

Brèche de faille; Bréchique; Fracturé(e)

197.43m-197.87 one silicified brecciated unit, angular syenite/mafic frags, with chlorite/pyrite/specularite filled network fracturing196.4-198.3 tectonic breccia, angular fenitized mafic with strong sericite rinms.Rotation is moderate. Re-worked breccia with boudinaged fragments. Fragments already crackled with old fracturing contined in clasts(197.7-197.8). Late crackle breccia FLAT lying with mm to <1cm with fragment offsets mm size(197-197.7). Matrix is irregular with stronger sericitization, carbonatization. Local phyllic alteration(<1-2% Py)(197.7-198.2)

IMPORTANT FAULT.Interpreted Taibi tuff lithology should start in this location.

197.87 198.80 T1A; BX; T1A; BX; FA

Brèche de faille; Bréchique; Brèche de faille; Bréchique; Fracturé(e)

196.4-198.3 tectonic breccia, angular fenitized mafic with strong sericite rinms.Rotation is moderate. Re-worked breccia with boudinaged fragments. Fragments already crackled with old fracturing conatined in clasts(197.7-197.8). Late crackle breccia FLAT lying with mm to <1cm with fragment offsets mm size(197-197.7). Matrix is irregular with stronger sericitization, carbonatization. Local phyllic alteration(<1-2% Py)(197.7-198.2) IMPORTANT FAULT.Interpreted Taibi tuff lithology should start in this location.198.3-198.8 Crackle breccia section, monogenic, mm size clasts decreasing to strongly fractured syenite. Potassic alteration matrix. Mineralized at around 1%

From	To	Description
199.20	**204.10**	I2D V3B; AP **Syénite avec 5 à 25% de basalte; Aphanitique 50°** Syenite with <5% basalt, Patchy magnetic, medium granulation, porphyritic, pinkish. >5% chloritic/Pyrite/magnetite carbonate filled (S2)fracturing 55-60 degree to core axis and erratic chlorite/pyrite fillled 15-20 degree to core axis /chlorite/Pyrite/magnetic filled (S3) fractures to en-echellon.Carbonate, with silicification alteration. Moderate hematite/K-feldspar-feldspar patches. Locally:199.58m-200.03m silicified basalt, dark green, aphanitic, at 40 degree to core axis.202.8m-203m one silicified Basalt dark green, carbonatized, at 55degree to core axis? irregular.Mineralized at 1% fine grain pyrite fracture filling overall with up to 3% fracture filling locally where intense fracturing.Lower contact irregular approx, at 55 degree to core ax? 192.3-195.1 Intense crack fracturing to crackle breccia sections. Erratic chlorite/carbonate/magnetite filling fractures to ruptures. Breccia is

From	To	Len	SampleID	Au (ppm)	Method	Certificate
199.00	200.00		V472954	0.0160	Au-ICP21	VO20089199
200.00	201.00		V472955	0.0080	Au-ICP21	VO20089199
201.00	202.00		V472956	0.0190	Au-ICP21	VO20089199
202.00	203.00		V472957	0.0120	Au-ICP21	VO20089199
203.00	204.00		V472958	0.0250	Au-ICP21	VO20089199

monogenic with <10% polymictic tectonic breccia at 192.3-192.6, and 192.8m.

Angular fenitized mafic fragmentsCB/SE rims and silicified felsic fragments in a fentized cement.Local <0.5cm size cataclasite (193.5-193.9) at around 50 degree to core axis. Oriented angular dark greenish possible mafic clasts in a chrystaline carbonate cement.Fracturing is erratic, crack and seal, boudinaged carbonate filled veinlets to fracturing with S3 at 50 degree to core axis. Offsets are mm size, hairline faulting.Overall matrix is carbonate with yellowish sericite.Mineralized at 1-2% disseminated to rare fracture filling. Magnete.

196.2-198.8 FAULT BRECCIATectonic breccia with crackle breccia to intense crack fracturing zones enveloping the ler.196.2-196.4 Monogenic breccia, matrix is potassic altered syenite, transitioning into tectonic breccia. Mineralized at 1-2% fracture filling. Magnetite. Upper unit is phylic alteration SE/pyrite with somewhat brecciated contact (mechanical?).

196.4-198.3 tectonic breccia, angular fenitized mafic with strong sericite rims. Rotation is moderate. Re-worked breccia with boudinaged fragments. Fragments already crackled with old fracturing contained in clasts (197.7-197.8). Late crackle breccia FLAT lying with mm to <1cm with fragment offsets mm size(197-197.7). Matrix is irregular with stronger sericitization, carbonatisation. Local phyllic alteration(<1-2% Py)(197.7-198.2).

IMPORTANT FAULT.Interpreted Taibi tuff lithology should start in this location.198.3-198.8 Crackle breccia section, monogenic, mm size clasts decreasing to strongly fractured syenite. Potassic alteration matrix. Mineralized at around 1% .198.8-202.9 feldspar are equigranular beginign to become more aphanitic carbonate feldspars with increase of biotite/hematite/Carbonate/K-feldspar-feldspar altered mafic subrounded fragments. Edges are Mineralized with Py/medium grain. Lack of phyllic alteration. Localized crackle breccia with abundant chlorite/medium grain filling fracturing to "stockwork configuration network (almost crackle breccia).Late carbonate veinlets, <0.2mm size FLAT and offset. Overall potassic alteration with alternetaing silicification intesity with late yellowish sericite patches to sometime semipervasive overprinting. Mineralized at around 1-2% very fine grain to fine grain pyrite disseminated and occasionally fracture filling. Magnetite/rare specularite. 202.9-203 Possible intermediate/mafic TUFF, sharp contact at 35 degree to core axis. Possible mm size pointy to needleish shape lapilli? highly magnetic. Matrix is light greenish to greysh. SiO2=32.08%, Al2O3=11.88%, Fe=5.32%, K=2.53%, Ca=1.55%, medium grainO=1.46%, PO4=1.2% Trace sulphide Mineralization. magnetite.203-205.39 Mostly potassic altered syenite, with mostly subrounded feldspar medium granulation. Unit becomes aphanitic carbonate syenite after 204.2m.404.2m mark start to see minor increase of phyllites,

patchy to <2cm SE/silicified/pyritepatches, however potassic alteration is the cheif alteration.High angle to core axis <0.mm size carbonate veinlets with mm size offsets. Minor undulation. 205.39-205.7 shear zone. Oriented boudins with alternating mm size crackle breccia(205.5). Local mylonite bands(205.42). Overall shear deformation at 50-55 degree to core axis. Potassic patches with phyllic patches. Fenitized dark fragments boudinaged mafic content. Magnetite. Mineralization at around trace-1% fine grain pyrite disseminated. Au=0.1gpt, shear sulphide stringers controlled. Lower contact is a sheared carbonate veining at 35-40 degree to core axis controlled. Trace pyrite sulphides. 205.7-210 aphanitic unit with alternating basalt digestion patches to potassic altered syenite dominating. One local moderate shear deformation at 206.1-206.14m at approx 40 degree to core axis. Matrix is potassic altered mass with strong leucoxene altered specs wall rock. Zone continues till 207.03. Mineralization is trace to 1% fine grain pyrite disseminated. 207.03-207.9 A mixture of digested basalt and gradually changing to basalt dominance unit. Fracture zone with <10% carbonate extensional veining to veinlet, from 30-70 degree to core axis. Hairline faulting with mm size offsets in veining. One brecciated quartz/carbonate fill fault at 207.6 at 80 degree to core axis, sharp contact. Dark green fenitized Biot/ hematiteCarbonate/K-feldspar-feldspar altered mafic digested fragments with : 207-207.6 light greenish to light pinkish phyllic alteration with anomalous pinkish potassic alteration, SE/silicified/K-feldspar-feldspar/ pyrite. Mineralization up to 4-5% fine grain pyrite disseminated.

199.58 200.03 V3B; AP

Basalte; Aphanitique 40°

Silicified basalt, dark green aphanitic, at 40 degree to-core-axis.

202.80 203.00 TU; V3B

Tuf non divisé 55°; Basalte

One silicified basalt dark green carbonarized/potassic at 55degree to-core-axis? irregular . 202.9-203 Possible intermediate/mafic TUFF, sharp contact at 35 degree to-core-axis. Possible mm size pointy to needleish shape lapilli? highly magnetic.Matrix is light greenish to greysh.Sio2=32.08%, Al2O3=11.88%, Fe=5.32%, K=2.53%, Ca=1.55%, medium-grainO=1.46%, PO4=1.2% Trace sulphide mineralization. Magnetite.

199.20 204.10 CB; HM; SI

carbonatization; Hématisation; Silicification

Carbonitized, with silicification/mod hematite/k-feldspar.

199.20 204.10 PY01

Pyrite 1%

Mineralized at 1% fine-grain pyrite fracture tfilling overall with up to 3%

fracture filling locally where intense fracturing.

From	To	Description
204.10	**219.90**	V3B (I2D) **Basalte avec 5 à 25% de syénite** Basalt, ~25% syenite.Green to dark reddish, aphanitic, magnetic.Moderate to increasing fracturing, at 50 degree to core axis, chlorite/Pyrite/magnetic filling.Strong silicification to intense patches alternating.Fenitization increasing , with stronger K alteration in and around felsic.Mineralization up to 2% fine grain disseminated pyrite overall with up to 5-6% locally where fractured carbonate syenite digestions (207.08m-207.55m, 213.2m-213.3m, 217m-217m.2).Lower contact irregular.210.03-210.6 strong phyllic alteration patch at low angle to core axis. Light yellowish SE/silicified/pyrite with up to 4-5% pyrite.Strong fentized digested basalt, dark green, enveloping patch.Fractures are mostly carbonate at low angle to core axis, erratic with minor local budins. Weak shear at 210.4. Mostly carbonate unit with SE/silicified package alternating with CB/hematite/K-feldspar. Few garnet around 210.6.Sample Au=0.667 gpt.Mineralization is disseminated mostly pyrite with one Po bleb at ~210.3. Magnetite.210.6 211.3 Digested basalt with faint porphyritc syenite alternance, increasing carbonatisation with pervasively bluish apatite. Elevated REE's.Mineralization is around 1-2% fine grain pyrite disseminated. Trace Po. Magnetic.SiO2=27.2%, Al2O3=11.2%, Ca=6.27%, K=1.95%, PO4=1.06%, Ce=895.211.3-217.7 A mixture of digested basalt, faint porphyritic syenite, irregular contacts. Fractures are mostly carbonate filled 40-70 degree to core axis somewhat repetitve patern, with abundant local hairline fault offsets. (211.3-212.02) Faulting is at 70-75 degree to core axis, mm size offsets. 211.7 <20% apatite altered fragments(patches?) somewhat sharp edges, angular to sub-angular,very small to mm size subrounded dark green mafic fragments with magnetite overprint. 213.2-213.26 a crackle breccia, monogenic in a potassic altered matrix, followed by a weak mylonite band with noted feldspar porphyroclast. Weak phyllic alteration bands to rims. Mineralized at around 3-5% fine grain pyrite disseminated with trace -1% Chalcopyrite. Alteration varies from carbonate/sericite dominant patches where stronger fracture intesity to patchy apatite anomalous light bluish hue. Carbonate/hematite patches. 213.6-213.9 minor quatz/carbonate extensional veinlets at high angle to core axis with secondary biotite in and around the wallrock. Trace pyrite blebs.216.18-217.7 Host is carbonate digesetd basalt, mottled look. Both upper and lower contact are well defined. Possible sheared chrystal tuff? Feldspar are intergranular, unhedral, fine grain, irregular patern. Preferred fabric orientation at 70 degree to core axis. Dark green

From	To	Len	SampleID	Au (ppm)	Method	Certificate
204.00	205.00		V472959	0.0490	Au-ICP21	VO20089199
205.00	206.00		V472960	**0.1180**	Au-ICP21	VO20089199
206.00	207.00		V472961	0.0630	Au-ICP21	VO20089199
207.00	208.00		V472962	0.0380	Au-ICP21	VO20089199
208.00	209.00		V472963	0.0450	Au-ICP21	VO20089199
209.00	210.00		V472964	0.0770	Au-ICP21	VO20089199
210.00	211.00		V472965	**0.6670**	Au-ICP21	VO20089199
211.00	212.00		V472966	**0.2010**	Au-ICP21	VO20089199
212.00	213.00		V472967	0.0620	Au-ICP21	VO20089199
213.00	214.00		V472968	0.0160	Au-ICP21	VO20089199
214.00	215.00		V472970	0.0100	Au-ICP21	VO20089199
215.00	216.00		V472971	0.0080	Au-ICP21	VO20089199
216.00	217.00		V472972	0.0050	Au-ICP21	VO20089199
217.00	218.00		V472973	0.0100	Au-ICP21	VO20089199
218.00	219.00		V472974	**0.1930**	Au-ICP21	VO20089199
219.00	220.00		V472975	0.0070	Au-ICP21	VO20089199

magnetite overprint fragments, possible mafic, boudins concordant. Foliated? at 70 degree to core axis. Alteration is carbonate with light bluish apatite alternating intesity. Late Fe-Cb light reddish to orangeish patches overprinitng the later. Weak leucoxene.Mineralization is trace pyrite. Magnetite.

204.10	219.90	SI; CB; HM; FK **Silicification; carbonatization; Hématisation; Altération en feldspath pota** Strong silicification to intense patches alternating.Fenitization increasing , with stronger K alteration in and around felsic.	
204.10	207.08	PY02 **Pyrite 2%** Mineralization up to 2% fine-grain disseminated pyrite overall	
207.08	207.55	PY06 **Pyrite 6%** Up to 5-6% locally where fracture d carbonatized syenite	
207.55	213.20	PY02 **Pyrite 2%** Mineralization up to 2% fine-grain disseminated pyrite overall	
213.20	213.30	PY06 **Pyrite 6%** Up to 5-6% locally where fracture d carbonatized syenite	
213.30	217.00	PY02 **Pyrite 2%** Mineralization up to 2% fine-grain disseminated pyrite overall	
217.00	217.20	PY06 **Pyrite 6%** up to 5-6% locally where fracture d carbonatized syenite	
217.20	219.90	PY02 **Pyrite 2%** Mineralization up to 2% fine-grain disseminated pyrite overall	
204.10	205.39	FA **Fracturé(e) 50°** moderate to increasing fracturing, at 50 degree to-core-axis, chl/pyrite/Mag filling .	50

205.39	205.70	CS; FA	50

Cisaillé(e) 50°; Fracturé(e)

205.39-205.7 shear zone. Oriented boudins with alternating mm size crackle breccia(205.5). Local Mylonite bands(205.42). Overall shear deformation at 50-55 degree to-core-axis. potassic patches with phyllic patches. Fenitized dark freenisgh boudinaged mafis. Magnetite. Mineralization at around trace-1% fine-grain pyrite disseminated. Au=0.1gpt, shear sulphide stringers controlled. Lower contact is a sheared carbonate/carbonate veining at 35-40 degree to-core-axis controlled.Trace pyrite sulphides.

From	To	Description
219.90	**222.50**	I2D; PO; TU2

Syénite; Porphyrique; Tuf intermédiaire

Syenite.Magnetic, coarse to medium, porphyritic, euhedral feldsp to laths, chllorite/Pyrite/magnetite filled hairline fractures erratic, 220.5m-221.3m medium grain syenite, pinkish , carbonate, strong K psr . Mineralized at 6-7% pyrite medium grain to fine grain blebs.Fenitization, strog carbonate/hematite with strong K patches. Mineralized up to 3% fine grain pyrite disseminated to fracture filling.Lower contact is gouggy.219.9-231.6Possible Intermediate tuff(lapilli).Mottled apparence, somewhat porphyritic, almost holocrystalline. Feldspar are of two types:Large K-feldspar crystal euhedral, microfractured defined edges, enclosed by fine grain groundmass feldspar, sub-hedral to unhedral, irregular, granitic granular texture. Patchy unhedral K-feldspar laths<0.5mm, irregular patern, microfractured. Matrix is strongly carbonate/potassic altered with hematit with semipervasive light greyish apatite altered fragments to patches/stains.

Strong magnetite aggregates to disseminated in the matrix. Patches of strong green semipervasive alteration overprinitng (227-228). Strong semipervasive leucoxene patches throughout.Also smaller pinkish subunits with porphyritc texture syenite somewhat defined edges/contacts, potassic altered. mm size thin regular syenite injections with sharp contacts.Darker greenish to browinsh patches to staining, possibly fenitized. No particular pattern. Strongly magnetic. Dark thin needle lookalike lapilli to rounded, elongated, scatered, irregular density(227.4-228.6) with possible crystal tuff(230.6).

Possible round carbonate/magnetite filled lapilli increasing towards lower contact(231-231.5).Also noted rectangular euhedral greenish color to darker pyroxene in basalt xenoliths with light grey apatite.223-224.1 CNR vuggy textured noted in the rock with strong water stain oxidation. Possible gaugy fault. Trace pyrite.224.72-225 <90% quartz/albite/carbonate filled vein. Extensional. <5% pink porphyry syenite fragment(clast?). Host is feldspar

From	To	Len	SampleID	Au (ppm)	Method	Certificate
220.00	221.00		V472976	0.0280	Au-ICP21	VO20089199
221.00	222.00		V472977	0.0120	Au-ICP21	VO20089199
222.00	223.00		V472978	0.0030	Au-ICP21	VO20089199

holocrystaline possible basalt. leucoxene alteration with apatite mm size staining. Potassic alteration. Mineralized at 3-4% very fine grain to fine grain pyrite syenite controlled only.Lower contact at 50 degree to core axis, irregular. Unit is fractured to micro breccia(crackle) strong carbonate/magnetite filled fractures/ruptures(220.8-220.9). 226-226.1 one intrusive breccia, polygenetic, cm size felsic clatsts with fenitized possible mafic fragments. Cement is crystaline carbonate with strong silicified matrix. Trace pyrite.229-229.1 10-20% crackle breccia, monogenic, potassic matrix,syenite host.(xenolith?). fracturing envelope.Mineralized at 3-5% very fine grain to fine grain pyrite disseminated to fracture filling.Mineralization is trace overall with stronger pyrite concentrations where breccia/syenite.

219.90 222.50 CB; HM; FK

carbonatization; Hématisation; Altération en feldspath potassique

Fenitization, strog carbonate/hematite with strong K patches.

219.90 220.50 PY03

Pyrite 3%

mineralized up to 3% fine-grain pyrite disseminated to fracture filling.

220.50 221.30 PY07

Pyrite 7%

mineralized at 6-7% pyrite medium-grain to fine-grain blebs.

221.30 222.50 PY03

Pyrite 3%

mineralized up to 3% fine-grain pyrite disseminated to fracture filling.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
222.50	**223.00**	V3B AP; TU2 **Basalte; Aphanitique; Tuf intermédiaire** Basalt.Magnetic, green, aphanitic, with gougy section, RQD~40%. Fault at 222.5m-224.3m gougy, intense carbonate/hematite. Few cm size vuggy sections. Mineralized trace. 224.6m-225m 70% cabonate veining at 65-60 degree to core axis. 225.2m-226.1m Gabbroic basalt, green, carbonate/Fe-carbonate, hematite. Trace Py.226.1m-226.9m Basalt, magnetic, dark green, fracture, fenitization, Mineralized 1-2% Py.Fenitization overall, carbonatisation/Fe-carbonate patches. Mineralized 1-2% pte. 219.9-231.6Possible Intermediate tuff(lapilli).Mottled apparence, somewhat porphyritic, almost holocrystalline. Feldspar are of two types:Large K-feldspar crystal euhedral, microfractured defined edges,							

enclosed by fine grain groundmass feldspar, sub-hedral to unhedral, irregular, granitic granular texture. Patchy unhedral K-feldspar laths<0.5mm, irregular patern, microfractured. Matrix is strongly carbonate/potassic altered with hematit with semipervasive light greyish apatite altered fragments to patches/stains. Strong magnetite aggregatres to disseminated in the matrix. Patches of strong green semipervasive alteration overprinitng(227-228). Strong semipervasive leucoxene patches throughout.Also smaller pinkish subunits with porphyritc texture syenite somewhat defined edges/contacts, potassic altered. mm size thin regular syenite injections with sharp contacts.Darker greenish to browinsh patches to staining, possibly fenitized. No particular pattern. Strongly magnetic. Dark thin needle lookalike lapilli to rounded, elongated, scatered, irregular density (227.4-228.6) with possible crystal tuff(230.6). Possible round carbonate/magnetite filled lapilli increasing towards lower contact(231-231.5).Also noted rectangular euhedral greenish color to darker pyroxene in basalt xenoliths with light grey apatite.

223-224.1 CNR vuggy textured noted in the rock with strong water stain oxidation. Possible gaugy fault. Trace pyrite.

224.72-225 <90% quartz/albite/carbonate filled vein. Extensional. <5% pink porphyry syenite fragment(clast?). Host is feldspar holocrystaline possible basalt. Leucoxene alteration with apatite mm size staining. Potassic alteration. Mineralized at 3-4% very fine grain to fine grain pyritesyenite controlled only. Lower contact at 50 degree to core axis, irregular. Unit is fractured to micro breccia(crackle) strong carbonate/magnetite filled fractures/ruptures(220.8-220.9).

226-226.1 one intrusive breccia, polygenetic, cm size felsic clatsts with fenitized possible mafic fragments. Cement is crystaline carbonate with strong silicified matrix.Trace pyrite

229-229.1 10-20% crackle breccia, monogenic, potassic matrix,syenite host. (xenolith?). fracturing envelope. Mineralized at 3-5% very fine grain to fine grain pyrite disseminated to fracture filling.Mineralization is trace overall with stronger pyriteconcentrations where breccia/syenite.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

223.00 **224.10** CNR

Carotte non récupérée

Core not recovered

222.50 224.30 CB; HM

carbonatization; Hématisation

Intense carbonitized/hematite.

222.50 224.30 PY02

Pyrite 2%

mineralized 1-2% pyrite.

222.50 224.30 FJ

Faille

gougy, intense carbonitized/hematite. Few cm size vuggy sections. mineralized trace.

From	To	Description
224.10	**226.90**	V3B AP; TU2
		Basalte; Aphanitique; Tuf intermédiaire
		Basalt.
		Magnetic, green, aphanitic, with gougy section, RQD~40%. Possible black lapilli tf?
		Fault at 222.5m-224.3m gougy, intense carbonate/hematite. Few cm size vuggy sections.Mineralized trace.
		224.6m-225m 70% cabonate veining at 65-60 degree to core axis. 225.2m-226.1m Gabbroic basalt, tuff?, green, carbonate/Fe-carbonate, hematite. Trace Py
		226.1m-226.9m Basalt, magnetic, dark green, fracture, fenitization, Mineralized 1-2% Py.Fenitization overall, carbonatisation/Fe-carbonate patches. Mineralized 1-2% pyrite.
		219.9-231.6n.Possible Intermediate tuff(lapilli).Mottled apparence, somewhat porphyritic, almost holocrystalline. Feldspar are of two types:Large K-feldspar crystal euhedral, microfractured defined edges, enclosed by fine grain groundmass feldspar, sub-hedral to unhedral, irregular, granitic granular texture. Patchy unhedral K-feldspar laths<0.5mm, irregular patern, microfractured. Matrix is strongly carbonate/potassic altered with hematit with semipervasive light greyish apatite altered fragments to

From	To	Len	SampleID	Au (ppm)	Method	Certificate
224.10	225.00		V472979	0.0020	Au-ICP21	VO20089199
225.00	226.00		V472980	0.0060	Au-ICP21	VO20089199
226.00	227.00		V472981	0.0140	Au-ICP21	VO20089199

patches/stains. Strong magnetite aggregatres to disseminated in the matrix. Patches of strong green semipervasive alteration overprinitng (227-228). Strong semipervasive leucoxene patches throughout.Also smaller pinkish subunits with porphyritc texture syenite somewhat defined edges/contacts, potassic altered. mm size thin regular syenite injections with sharp contacts.Darker greenish to browinsh patches to staining, possibly fenitized. No particular pattern. Strongly magnetic. Dark thin needle look like lapilli to rounded, elongated, scatered, irregular density(227.4-228.6) with possible crystal tuff(230.6). Possible round carbonate/magnetite filled lapilli increasing towards lower contact(231-231.5).Also noted rectangular euhedral greenish color to darker pyroxene in basalt xenoliths with light grey apatite.223-224.1 CNR vuggy textured noted in the rock with strong water stain oxidation. Possible gaugy fault. Trace pyrite.224.72-225 <90% quartz/albite/carbonate filled vein. Extensional. <5% pink porphyry syenite fragment(clast?). Host is feldspar holocrystaline possible basalt. leucoxene alteration with apatite mm size staining.Potassic alteration. Mineralized at 3-4% very fine grain to fine grain pyritesyenite controlled only. Lower contact at 50 degree to core axis, irregular. Unit is fractured to micro breccia(crackle) strong carbonate/magnetite filled fractures/ruptures(220.8-220.9). 226-226.1 one intrusive breccia, polygenetic, cm size felsic clatsts with fenitized possible mafic fragments. Cement is crystaline carbonate with strong silicified matrix. Trace pyrite.

229-229.1 10-20% crackle breccia, monogenic, potassic matrix, syenite host.(xenolith?). fracturing envelope. Mineralized at 3-5% very fine grain to fine grain pyrite disseminated to fracture filling.Mineralization is trace overall with stronger pyrite concentrations where breccia/syenite.

226.10 226.90 V3B; AP

Basalte; Aphanitique

Basalt, MAG, dark green, fracture, fenitization, Mineralized 1-2% pyrite.

224.30 224.90 CB; HM; FK

carbonatization; Hématisation; Altération en feldspath potassique

Fenitization overall, carbonatization/Fe-carbonate patches.

224.30 224.90 PY02

Pyrite 2%

mineralized 1-2% pyrite.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

226.90 **231.50** V3B (I2D); AP; TU2

Basalte avec 5 à 25% de syénite; Aphanitique 60°; Tuf intermédiaire

80% green to dark reddish, fine grain, gabbroic texture basalt with <25% syenite, porphyritic, medium granulation <10cm sections. Magnetic.5-8% carbonate filled wide spaced fractured, irregular dark lapilli?, tuff?Strong carbonate/hematite with semipervasive epidotization /sericite. Fe-carbonate with chlorite. Mineralized 1-2% Py230.3m-230.6m silicified fine grain mafic dyke?Lower contact at 60 degree to core ax.

219.9-231.6Possible Intermediate tuff(lapilli).Mottled apparence, somewhat porphyritic, almost holocrystalline. Feldspar are of two types:Large K-feldspar crystal euhedral, microfractured defined edges, enclosed by fine grain groundmass feldspar, sub-hedral to unhedral, irregular, granitic granular texture. Patchy unhedral K-feldspar laths<0.5mm, irregular patern, microfractured. Matrix is strongly carbonate/potassic altered with hematit with semipervasive light greyish apatite altered fragments to patches/stains. Strong magnetite aggregatres to disseminated in the matrix. Patches of strong green semipervasive alteration overprinitng (227-228). Strong semipervasive leucoxene patches throughout.Also smaller pinkish subunits with porphyritc texture syenite somewhat defined edges/contacts, potassic altered. mm size thin regular syenite injections with sharp contacts.Darker greenish to browinsh patches to staining, possibly fenitized. No particular pattern. Strongly magnetic. Dark thin needle lookalike lapilli to rounded, elongated, scatered, irregular density(227.4-228.6) with possible crystal tuff(230.6). Possible round carbonate/magnetite filled lapilli increasing towards lower contact(231-231.5).Also noted rectangular euhedral greenish color to darker pyroxene in basalt xenoliths with light grey apatite.

223-224.1 CNR vuggy textured noted in the rock with strong water stain oxidation. Possible gaugy fault. Trace pyrite.224.72-225 <90% quartz/albite/carbonate filled vein. Extensional. <5% pink porphyry syenite fragment(clast?). Host is feldspar holocrystaline possible basalt. Leucoxene alteration with apatite mm size staining. Potassic alteration. Mineralized at 3-4% very fine grain to fine grain pyritesyenite controlled only. Lower contact at 50 degree to core axis, irregular. Unit is fractured to micro breccia(crackle) strong carbonate/magnetite filled fractures/ruptures (220.8-220.9).

226-226.1 one intrusive breccia, polygenetic, cm size felsic clatsts with fenitized possible mafic fragments. Cement is crystaline carbonate with strong silicified matrix.Trace pyrite.229-229.1 10-20% crackle breccia, monogenic, potassic matrix,syenite host. (xenolith?). fracturing envelope. Mineralized at 3-5% very fine grain to fine grain pyrite disseminated to fracture filling.Mineralization is trace overall with stronger pyrite concentrations where breccia/syenite.

227.00	228.00	V472982	0.0100	Au-ICP21	VO20089199
228.00	229.00	V472983	0.0300	Au-ICP21	VO20089199
229.00	230.00	V472985	0.0290	Au-ICP21	VO20089199
230.00	231.00	V472986	0.0070	Au-ICP21	VO20089199
231.00	232.00	V472987	0.0050	Au-ICP21	VO20089199

230.30 230.60 I3

Intrusif mafique

Silicified fine grain mafic dyke?

224.90 231.50 CB; HM; EP; SR

carbonatization; Hématisation; Épidotisation; Sériciticisation

Strong carbonate/hematite with semipervasive epidotization /sericite. Fe-carb with chlorite.

224.90 231.50 PY02

Pyrite 2%

mineralized 1-2% pyrite

From	To	Description
231.50	**238.65**	V3B (I2D); AP; TU2 **Basalte avec 5 à 25% de syénite; Aphanitique; Tuf intermédiaire** Silicified basalt.Green, aphanitic,magnetic.Dark silica filled fractures(S2) at 60 degree to core axis with 10-15 degree to core axis carbonate en-echellon(S3) to fractures. 232.3m-232.8m one medium porphyritic silicified syenite reddish, carbonate/hematite trace pyrite.234.36m-235.66m silicified syenite, pinkish, medium porphyritic, equigranular, <5% quartz crystal, rare fractureuing, moderate carbonate/K-feldspar/hematite with Fe-carbonate bands. Mineralized at 0.5-1% fracture filling. Lower contact at 60 degree to core axis.235.66m-237m silicified, syenite with <40% basalt, green, to beige, aphanitic, heavily fractured with carbonate filled cm spaced fractures at 60 degree to core axis, with late S3 carbonate filled crosscutting. Sheared tuff with rotated black lapilli. Strong fenitized altered mafic with strong carbonate/Fe-carbonate syenite fragments, Epidotization overprints to patches. Sericitization/silicification. Mineralized trace pyrite. Lower contact at 50 degree to core axis. 237m-239.35m silicified syenite, pink, medium, porphyritic, moderate carbonate/hematite. Increasing lapilli?tuff? Mineralized trace pyrite. Lower contact at 65 degree to core axis.Upper unit fentization. Mineralized trace to 1% pyrite.231.6-245 Tuff Lapilli.Green to pinkish unit, aphanitic, with porphyritic textured syenite(<30%). Equigranular k-feldspar crystal fine grain. Syenite has regular distinguished contscts at around 55-60 degree to core axis.Mostly moderate silicification with stronger chlorite patches to semipervasive. Semipervasive leucoxene patches. Darker greenish carbonate/hematite alteration overall. Fractured unit, with <10%

From	To	Len	SampleID	Au (ppm)	Method	Certificate
232.00	233.00		V472988	0.0070	Au-ICP21	VO20089199
233.00	234.00		V472989	**0.1930**	Au-ICP21	VO20089199
234.00	235.00		A0104001	0.0170	Au-ICP21	VO20089352
235.00	236.00		A0104002	0.0070	Au-ICP21	VO20089352
236.00	237.00		A0104003	0.0080	Au-ICP21	VO20089352
237.00	238.00		A0104004	0.0110	Au-ICP21	VO20089352
238.00	239.00		A0104005	0.0260	Au-ICP21	VO20089352

microbreccia (233.16 mm size crackle breccia) at 75 degree to core axis, with immedite hair line faults with mm size offsets. Potassic altered matrix. Strong fracture intesity enevelope (233-234) with Au=0.190gpt. Lapilli are small pointy to subrounded with alternating density. (233.95-234) and abundant lapilli from 234 down apex. Abundant porphyroclasts lapilli.

232.3-232.79 pink porphyritic equigranular syenite. defined contact at around 50 degree to core axis.Trace pyrite.

232.79-243 Intermediate tuff lapilli, with <10 pink porphyritic equigranular syenite. Fractured matrix with one breccia(possible crackle breccia) at 236.3-236.5, polygenic, at approx 75 degree to core axis. Late carbonate filled fractures boudinaged and hairline faults with mm size offset.

232.30 232.80 I2D; PO

Syénite; Porphyrique

One medium porphyric silicified syenite reddish, carbonate/hematite.

234.36 235.66 I2D; PO

Syénite 60°; Porphyrique

Silicified syenite, pinkish, medium porphyric, equigranular, <5% quartz crystal, rare fracturing, moderate carbonate/k-feldspar/hematite with Fe-carbonate bands.Mineralized at 0.5-1% fracture filling. lower-contact at 60 degree to-core-axis.

237.00 239.35 I2D; PO

Syénite 65°; Porphyrique

Silicified syenite, pink, medium, porphyric, moderate carbonate/hematite. Mineralized trace pyrite. Lower-contact at 65 degree to-core-axis.

231.50 232.30 FK; CB; HM

Altération en feldspath potassique; carbonatization; Hématisation

Fentization.

232.30 232.80 SI; CB; HM

Silicification; carbonatization; Hématisation

232.3m-232.8m one med'm porphyritic silicified syenite reddish, carbonate/hematite trace pyrite.

232.80 234.36 CB; FK; HM

carbonatization; Altération en feldspath potassique; Hématisation

Upper unit fenitization.

234.36 235.66 SI; CB; HM

Silicification; carbonatization; Hématisation

Silicified syenite, moderate carbonate/k-feldspar/hematite with Fe-carbonate bands.

235.66	237.00	CB; HM; SI	
		carbonatization; Hématisation; Silicification	
		Silicified, sye with <40% basalt, green, to beige, aphanitic, heavily fractureured with carb filled cm spaced fractureures at 60 deg tca, with late S3 calcite filled crosscutting.	
237.00	238.65	HM; CB; FK	
		Hématisation; carbonatization; Altération en feldspath potassique	
		Fentization.	
231.50	238.65	PY01	
		Pyrite 1%	
		Mineralized trace to 1% pyrite.	
235.66	237.00	FA	60
		Fracturé(e) 60°	
		silicified, syenite with heavily fractured with carb filled cm spaced fractures at 60 degree to-core-axis, with late S3 calcite filled crosscutting.	

From	To	Description
238.65	**241.70**	I2D V3B
		Syénite avec 25 à 50% de basalte
		Syenite.Reddish aphanitic, silicified with <40 basalt digestion, patchy chlorite/amphibole replacement (, strong silicifcation/fenitization). S3 at 40-45 degree carbonate filled fracturing, dense. Mineralized at 3-4% fine grain to very fine grain pyrite disseminated to fracture filling. Lower contact graditional.240.5m-241.7m silicified syenite , dark reddish to pink, porphyritic to aphanitic, fractured at 10-15% with /chlorite/Pyrite/Specularite fractures at 45 degree to core axis S3?, fenitized with strong Fe-carbonate patches, with up to 2% fine grain to very fine grain pyrite fracture filling to disseminated.
240.50	241.70	I2D; PO
		Syénite; Porphyrique
		240.5m-241.7m silicified syenite , dark reddish to pink, poprhyric to aphanitic,fractured at 10-15% with chlorite/pyrite/Specularite fractures at 45 degree to-core-axis S3?, fenitized with strong Fe-carbonate patches, with up to 2% fine-grain to fine-grain pyrite fracture filling to disseminated.
238.65	240.50	SI; CB; HM; FK
		Silicification; carbonatization; Hématisation; Altération en feldspath pota
		Strong silicifcation/fenitization.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
239.00	240.00		A0104006	0.0070	Au-ICP21	VO20089352
240.00	241.00		A0104007	0.0450	Au-ICP21	VO20089352
241.00	242.00		A0104009	**0.1520**	Au-ICP21	VO20089352

240.50 241.70 CB; FK; HM; AM; SI

carbonatization; Altération en feldspath potassique; Hématisation; Amph

Patchy chlorite/amphibole replacment strong silicifcation/fenitization.

238.65 241.70 PY04

Pyrite 4%

mineralized at 3-4% fine-grain to very-fine-grain pyrite disseminated and fracture filling.

239.30 241.70 FA 40

Fracturé(e) 40°

S3 at 40-45 degree calcite filled fracturing, dense.

From	To	Description
241.70	**245.40**	V3B I2D; TU; TU2 **Basalte avec 25 à 50% de syénite; Tuf non divisé; Tuf intermédiaire** Basalt with <25% syenite.Green to gryeish, aphanitic, dark needle like small lapilli. Fractured with carbonate fillied spaced S2 at 55 60 degree to core axis and carbonate filled S3 en-echellon at 35 degree to core axis to erratic.Fenitization moderate to strong alternating with <55 carbonate veining at 50-55 degree to core axis Fe-carbonate rims. 244.4m-245.4m carbonatization with K-Feldspar/hematite zoning.Lower contact brecciated at 55 degree to core axis.231.6-245 Tuff Lapilli.Green to pinkish unit, aphanitic, with porphyritic textured syenite(<30%). Equigranular k-feldspar crystal fine grain. Syenite has regular distinguished contscts at around 55-60 degree to core axis.Mostly moderate silicification with stronger chlorite patches to semipervasive. Semipervasive leucoxene patches. Darker greenish carbonate/hematite alteration overall. SiO2=31.48, Al2O3=9.82, Fe=4.33%, Ca=3.94%, medium grain O=2.04%, Ti=9400, K=7160fractured unit, with <10% microbreccia (233.16 mm size crackle breccia) at 75 degree to core axis, with immedite hair line faults with mm size offsets. Potassic altered matrix. Strong fracture intesity enevelope(233-234) with Au=0.190gpt. Lapilli are small pointy to subrounded with alternating density. (233.95-234) and abundant lapilli from 234 down apex. Abundant porphyroclasts lapilli. 232.3-232.79 pink porphyritic equigranular syenite. Defined contact at around 50 degree to core axis.Trace pyrite. 232.79-243 Intermediate tuff lapilli, with <10 pink porphyritic equigranular syenite. Fractured matrix with one breccia(possible crackle breccia) at 236.3-236.5, polygenic, at approx 75 degree to core axis. Late carbonate filled fractures boudinaged and hairline faults with mm size offset.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
242.00	243.00		A0104010	0.0150	Au-ICP21	VO20089352
243.00	244.00		A0104011	0.0140	Au-ICP21	VO20089352
244.00	245.00		A0104012	0.0200	Au-ICP21	VO20089352

241.70 245.40 CB; FK; HM

carbonatization; Altération en feldspath potassique; Hématisation

Fenitization moderate to strong alternating .

241.70 245.40 PY10

Pyrite 10%

mineralized at 1% fine-grain to very-fine-grain pyrite disseminated and fracture filling.

241.70 245.40 FA 55

Fracturé(e) 55°

fractured with calcite fillied spaced S2 at 55 60 degree to-core-axis and calcite filled S3 en-echellon at 35 degree to-core-axis to erratic.

From	To	Description
245.40	**247.36**	I2D V3B; AP; TU2
		Syénite avec 5 à 25% de basalte; Aphanitique 45°; Tuf intermédiaire
		Syenite with <25% basalt digestion.Reddish, aphanitic, heterogenic with:245.4m-245.7m syenite, medium, greysh to pinkish, faint porphyritic.Weak boudinaged feldspar at 65-70 degree to core axis. Angluar feldspar and possible dark lapilli? tuff?, intense sil'd filled fracturing at 70 degree to core axis, strong febitization/silicification. Mineralized at 2-3% pyritefine grain to very fine grain stringers to fracture filling. 245.7m-246.6m basalt with <25% syenite, beigeish to pinkish, aphanitic. Fractured at 60 degree to core axis (S2) with one 5cm breccia at 246.6m at 55 degree to core axis,silicified with carbonate/K-feldspar/hematite patches moderate to strong alternating. 246.6m-247.36m silicified fractured syenite, medium, poprh'c, mm size lapilli tuff?Strong fenitization/carbonatisation replacing the later to Fe-carbonate, with /chlorite/pyrite filled S2 fractures at 55-60 degree to core axis. Mineralized at 3-4% pyrite fine grain to very fine grain stringers to disseminated. Chalcopyrite.Lower contact at 40-45 degree to core axis overall.
245.40	245.70	I2D; PO
		Syénite; Porphyrique 65°
		Syenite, medium, greysh to pinkish, faint poprhyric,weak boudinaged feldspar at 65-70 degree to-core-axis sense, intense silicified filled fracturing at 70 degree to-core-axis, strong fenitization/silicification. Mineralized at 2-3% pyrite fine-grain to fine-grain stringers to fracture filling.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
245.00	246.00		A0104013	**0.4120**	Au-ICP21	VO20089352
246.00	247.00		A0104014	0.0950	Au-ICP21	VO20089352

245.70	246.60	V3B (I2D)	
		Basalte avec 5 à 25% de syénite	
		245.7m-246.6m basalt with <25% syenite, beigeish to pinkish, aphanitic,fractured at 60 degree to-core-axis (S2) with one 5cm breccia at 246.6m at 55 degree to-core-axis,silicified with carbonate/k-feldspar/hematite patches moderate to strong alternating.	
246.60	247.36	I2D; PO	
		Syénite 55°; Porphyrique	
		Silicifiedfractured syenite, medium, poprh'c, strong fenitization/carbonatization repidotelacing the later to Fe-Carbonate, with chlorite/pyrite filled S2 fractures at 55-60 degree to-core-axis.Mineralized at 3-4% pyrite fine-grain to fine-grain stringers to disseminated. Cpyrite.	
245.40	245.70	CB; HM	
		carbonatization; Hématisation	
		Fe-carbonate/Carbonatization.	
245.70	246.60	SI; CB; HM	
		Silicification; carbonatization; Hématisation	
		Silicified with carbonate/k-feldspar/hematite patches moderate to strong alternating.	
246.60	247.50	SI; CB; HM; FK	
		Silicification; carbonatization; Hématisation; Altération en feldspath pota	
		Intense sil'd filled fractureuring at 70 deg tca, strong febitization/silicification.	
245.40	245.70	PY03	
		Pyrite 3%	
		mineralized at 2-3% pyrite fine-grain to very-fine-grain stringers to fracture filling	
245.70	246.60	PY00.5	
		Pyrite 0.5%	
		Trace pyrite	
246.60	247.36	PY04; CP	
		Pyrite 4%; Chalcopyrite	
		mineralized at 3-4% pyrite fine-grain to very-fine-grain stringers to disseminated. Chalcopyrite.	
245.40	245.70	FA	65
		Fracturé(e) 65°	
		weak boudinaged feldspar at 65-70 degree to-core-axis sense, intense sil'd filled fracturing at 70 degree to-core-axis.	

245.70	246.60	FA	60
		Fracturé(e) 60°	
		245.7m-246.6m basalt with <25% syenite, beigeish to pinkish, aphanitic, fractured at 60 degree to-core-axis (S2) with one 5cm breccia at 246.6m at 55 degree to-core-axis,silicified with carbonate/k-feldspar/hematite patches moderate to strong alternating.	
246.60	246.65	T1A	55
		Brèche de faille 55°	
		one 5cm breccia at 246.6m at 55 degree to-core-axis.	
246.65	247.36	FA55	
		Fracturé(e)55	
		silicified fractured syenite, with chl/pyrite filled S2 fractures at 55-60 degree to-core-axis.	

From	To	Description
247.36	**252.60**	I2D; TU2
		Syénite; Tuf intermédiaire
		Syenite.Pink, porphyritic, fine grain.Fracturing, carbonate/pyritefilled fracturing at around 50 degree to core axis overall.Specularite.Strong K-feldspar alter'n. carbonate. Patchy hematite.Mineralzied trace pyriteto 3-4% fracture controlled. 247.36m-249.3m pink to reddish syenite, silicified, porphyritic, medium fractured at 60 degree to core axis with /chlorite/carbonate/Pyrite/Spec fractures(S2). Intense fenitization. Mineralized at 1% pyrite stringers to fracture filling. 249.3m-251xx fracture Zone greysh to pinkish medium, possible fractured crystal tuff, syenite?,with 20% chlorite/silicified/carbonate/pyrite filled fractures at 60 degree to core axis(s3). Fe-carbonate banding increasing /silicification with sericite flakes. Mineralized at 1% fine grain to very fine grain pyrite fracture filling to disseminated. 249.6-252.6 A mixture of crystal tuff with medium grain porphyry syenite. Orange color to beige unit. Non deformed. Round feldspar crystal euhedral with oval to ellipsoid sparse dark quartz? crystal.Weak fractureruring with sparse silicia/carbonate filled fractureruring at around 50 degree to core axis. Strong silicification/moderate sericite. Mostly pervasive to stronger intesity altered patches.Mineralization trace to 1% fine grain Pyrite, fracture filling.SiO2=45.54%, K=1.05%, Fe=9470, Ca=9450, Ba=326, Ce=100.
247.50	249.32	CB; HM; FK

From	To	Len	SampleID	Au (ppm)	Method	Certificate
247.00	248.00		A0104015	0.0410	Au-ICP21	VO20089352
248.00	249.00		A0104016	0.0120	Au-ICP21	VO20089352
249.00	250.00		A0104017	0.0100	Au-ICP21	VO20089352
250.00	251.00		A0104018	0.0160	Au-ICP21	VO20089352
251.00	252.00		A0104019	0.0900	Au-ICP21	VO20089352
252.00	253.00		A0104020	**0.4380**	Au-ICP21	VO20089352

carbonatization; Hématisation; Altération en feldspath potassique

Intense fenitization.

249.32 251.00 CB; SR

carbonatization; Séricitisation

Fe-acrbonate banding increasing /silicification with sericite flakes.

251.00 252.60 CB; HM

carbonatization; Hématisation

Carbonate/Fe-Carbonate

247.36 249.32 PY01

Pyrite 1%

mineralized at 1% pyrite stringers to fracture filling.

249.32 251.00 PY04

Pyrite 4%

mineralized at 3-4% fine-grain to very-fine-grain pyrite fracture filling to disseminated.

251.00 252.60 PY00.5

Pyrite 0.5%

Trace pyrite

249.30 251.00 FA 60

Fracturé(e) 60°

Fracture Zone greysh to pinkish med'm, fractured syenite, with 20% chl'c/silicification'c/carbonate/pyrite filled fractures at 60 degree to-core-axis (S3).

From	To	Description
252.60	**254.80**	V3B I2D; AP; TU2 **Basalte avec 25 à 50% de syénite; Aphanitique 45°; Tuf intermédiaire** Basalt. Magnetic. Green to dark reddish, aphanitic, patchy magnetic, dark neddles like lapilli? Strongly fractured at 50 degree to core axis carbonate filled (s2) with erratic S3. Strong fenitization. Mineralized up to 2-3% medium grain to fine grain disseminated. lower contact at 45 degree to core axis.252.6-285 Intermediate Tuff lapilli.Orange to greenish to mottled apparence. Aphanitic with porphyritic textures xenoliths/fragments alternating.Lapilli is dark brown, very small to mm size, angular to sub-angular, often oriented at around 50 degree to core axis. magnetite overprint. Unknown protolith. Ex.(253.6-254)Some subsections with subround feldspar clasts to lapilli?/crystal? polymictic tuff/conglomerate?(254-255)fracturing is moderate to somewhat strong intesity.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
253.00	254.00		A0104021	0.0260	Au-ICP21	VO20089352
254.00	255.00		A0104022	0.0140	Au-ICP21	VO20089352

255.3-256.16 strong fracture zone with carbonate/pyritefilled fracturing at around 50 degree to core axis. vuggy textures. Matrix is strong carbonate with sericite overprint. Mineralzied at around 4-5% fine grain pyriteto medium grain pyrite disseminated.

271.4-271.8 One monogenic breccia with potassic matrix, followed by carbonate/sericite lapilli tuff(intermediate). <10% crystaline carbonate cement. carbonate/Pyrite/magnetite filled ruptures/fractures. Mineralized at around 8-10% fine grain pyrite disseminated to late pyritefracture filling. Magnetite.

273.1-273.3 One 90% fracturerured syenite. Pink color, faint porphyritic, strongly fracturerured at 5-55 degree to core axis. Strong silicification/light pink potassic alteration, patchy bleaching carbonate/sericite. Mineralized at 3-5% very fine grain to fine grain pyrite disseminated and late pyritefracture filling to stringers. Magnetite.

273-274 Au=0.436 gpt

274.2-274.5 70% fracture syenite. Pink color, porphyritic, equigranular. fractured unit with <5% lapilli tuff at both contacts. Distinguished irregular contacts (mega-xenolith?). Strong Potassic/carbonate alteration to bleached carbonate/sericite patches. Mineralization is up to 4-5% very fine grain to fine grain pyrite disseminated, late pyrite stringers to fracture filling. 274-275 Au=0.550 gpt. Overall alteration is sericite patches with moderate to stronger intesity. Silicification is patchy with stronger intesity in and around where silicified porphyritic syenite injections. Potassic alteration is syenite controlled only. Dark chlorite/hematite/carbonate alteration in dark green lapilli tuff.Mineralization is trace pyrite disseminated overall with up to 2-3% very fine grain to fine grain pyrite stringers/fracture filling and around intrusive contacts.

252.60 254.80 CB; HM; FK

carbonatization; Hématisation; Altération en feldspath potassique

Strong fenitization.

252.60 254.80 PY03

Pyrite 3%

mineralized up to 2-3% medium-grain to fine-grain disseminated.

252.60 254.80 FA 50

Fracturé(e) 50°

strongly fractured at 50 degree to-core-axis calcite filled (S2) with erratic

S3.

From	To	Description
254.80	**258.20**	I2D; PO **Syénite; Porphyrique 40°** Syenite. 254.4m-258.2m syenite, reddish to pinkish, medium, porphyritic, fractured at 55 degree to core axis carbonate filled fractures S2, an cl/pyrite filled S3 at 50 degree to core axis to erratic.Strong K-Feldspar/hematite/Fe-carbonate with strong silicification alternating intesity. 255.35m-255.76m one carbonate basalt, with <40% syenite strongly fractured with up to 5% medium grain to very fine grain pyrite stringers to disseminated. 257.6m-258.2m re-worked flow breccia? Lower contact at 40 degree to core ax. 252.6-285 Intermediate Tuff lapilli.Orange to greenish to mottled apparence. Aphanitic with porphyritic textures xenoliths/fragments alternating.Lapilli is dark brown, very small to mm size, angular to sub-angular, often oriented at around 50 degree to core axis. Magnetite overprint. Unknown protolith. Ex.(253.6-254).Some subsections with subround feldspar clasts to lapilli?/crystal? polymictic tuff/conglomerate?(254-255).Fracturing is moderate to somewhat strong intesity. 255.3-256.16 strong fracture zone with carbonate/pyrite filled fracturing at around 50 degree to core axis. Vuggy textures. Matrix is strong carbonate with sericite overprint. Mineralzied at around 4-5% fine grain pyrite to medium grain pyrite disseminated.
255.35	255.76	V3B I2D **Basalte avec 25 à 50% de syénite** 255.35m-255.76m one carbonatized basalt, with <40% syenite stronglyfractured with up to 5% medium-grain to fine-grain pyrite stringers to disseminated.
254.80	258.20	CB; HM; SI **carbonatization; Hématisation; Silicification** Strong k-feldspar/hematiteFe-carbonate with strong silicification alternating intensity.
254.80	255.35	PY00.5 **Pyrite 0.5%** Trace pyrite

From	To	Len	SampleID	Au (ppm)	Method	Certificate
255.00	256.00		A0104023	**0.2460**	Au-ICP21	VO20089352
256.00	257.00		A0104024	0.0320	Au-ICP21	VO20089352
257.00	258.00		A0104026	0.0130	Au-ICP21	VO20089352

255.35	255.76	PY05	
		Pyrite 5%	
		up to 5% medium-grain to very-fine-grain pyrite stringers to disseminated.	
255.76	258.20	PY00.5	
		Pyrite 0.5%	
		Trace pyrite	
254.80	258.20	FA	55
		Fracturé(e) 55°	
		fractured at 55 degree to-core-axis carb filled fractures S2, chl/pyrite filled S3 at 50 degree to-core-axis.to erratic.	

From	To	Description
258.20	**265.10**	V3B I2D; TU2
		Basalte avec 25 à 50% de syénite; Tuf intermédiaire
		Basalt, possible tuff?
		258.2m-silicified basalt with <50% altered syenite digestion? (siicified syenite?), reddish, aphanitic.Fractured at 55-60 degree to core axis overlall.Alteration is sericite/silicification, Fe-carbonate-silicification/pink K patches.Mineralized trace to 0.5% P
		252.6-285 Intermediate Tuff lapilli.Orange to greenish to mottled apparence. Aphanitic with porphyritic textures xenoliths/fragments alternating.Lapilli is dark brown, very small to mm size, angular to sub-angular, often oriented at around 50 degree to core axis. Magnetite overprint. Unknown protolith. Ex.(253.6-254).Some subsections with subround feldspar clasts to lapilli?/crystal? polymictic tuff/conglomerate?(254-255).Fracturing is moderate to somewhat strong intesity.
		255.3-256.16 strong fracture zone with carbonate/pyritefilled fracturing at around 50 degree to core axis. vuggy textures. Matrix is strong carbonate with sericite overprint. Mineralzied at around 4-5% fine grain pyriteto medium grain pyrite disseminated.252.6-285 Intermediate Tuff lapilli.Orange to greenish to mottled apparence. Aphanitic with porphyritic textures xenoliths/fragments alternating.Lapilli is dark brown, very small to mm size, angular to sub-angular, often oriented at around 50 degree to core axis. Magnetite overprint. Unknown protolith. Ex.(253.6-254).Some subsections with subround feldspar clasts to lapilli?/crystal? polymictic tuff/conglomerate?(254-255).Fracturing is moderate to somewhat strong intesity.
		255.3-256.16 strong fracture zone with carbonate/pyrite filled fracturing at

From	To	Len	SampleID	Au (ppm)	Method	Certificate
258.00	259.00		A0104027	0.0130	Au-ICP21	VO20089352
259.00	260.00		A0104028	**0.1210**	Au-ICP21	VO20089352
260.00	261.00		A0104029	0.0150	Au-ICP21	VO20089352
261.00	262.00		A0104030	**0.4320**	Au-ICP21	VO20089352
262.00	263.00		A0104031	**0.1200**	Au-ICP21	VO20089352
263.00	264.00		A0104032	0.0130	Au-ICP21	VO20089352
264.00	265.00		A0104033	0.0250	Au-ICP21	VO20089352

around 50 degree to core axis. vuggy textures. Matrix is strong carbonate with sericite overprint. Mineralzied at around 4-5% fine grain pyriteto medium grain pyrite disseminated. Overall alteration is sericite patches with moderate to stronger intesity. Silicification is patchy with stronger intesity in and around where silicified porphyritic syenite injections. Potassic alteration is syenite controlled only. Dark chlorite/hematite/carbonate alteration in dark green lapilli tuff.Mineralization is trace pyrite disseminated overall with up to 2-3% very fine grain to fine grain pyrite stringers/fracture filling and around intrusive contacts.

258.20 265.10 SI; CB; HM
Silicification; carbonatization; Hématisation
Fe-carbonate-silicification/pink K patches.

258.20 265.10 PY00.5
Pyrite 0.5%
Mineralized trace to 0.5% pyrite

258.20 265.10 FA 55
Fracturé(e) 55°
fractured at 55-60 degree to-core-axis overlall.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

265.10 265.50 I2D; PO; TU2
Syénite; Porphyrique; Tuf intermédiaire
Syenite, medium, porph,c, orangeish, to pinkish, carbonateoant/K-feldspar/silicification. Mineralized at trace 0.5% Py

265.10 265.50 SI; CB; HM
Silicification; carbonatization; Hématisation
Carboant/k-feldspar/silicification.

265.10 265.50 PY00.5
Pyrite 0.5%
mineralized at trace 0.5% pyrite

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

265.50	**267.30**	I1; PO; TU2	265.00	266.00	A0104034	0.0420	Au-ICP21	VO20089352
		Intrusif felsique 30°; Porphyrique; Tuf intermédiaire	266.00	267.00	A0104035	0.0370	Au-ICP21	VO20089352

Dacite(fine grain syenite?).Porphyritic, beige to light greysh, euhedral feldpar phenos, with quartz crystals.(eyes)(tuff?).Weakly fractured, carbonatisation patches, silicification/Fe-carbonate-sericite increasing. Mineralized at 2-3% medium grain to fine grain pyrite disseminated.Lower contact is sheared at 30 degree to core axis.

252.6-285 Intermediate Tuff lapilli.Orange to greenish to mottled appearence. Aphanitic with porphyritic textures xenoliths/fragments alternating.Lapilli is dark brown, very small to mm size, angular to sub-angular, often oriented at around 50 degree to core axis. Magnetite overprint. Unknown protolith. Ex.(253.6-254)Some subsections with subround feldspar clasts to lapilli?/crystal? polymictic tuff/conglomerate?(254-255)fracturing is moderate to somewhat strong intesity.

271.4-271.8 One monogenic breccia with potassic matrix, followed by carbonate/sericite lapilli tuff(intermediate). <10% crystaline carbonate cement. Carbonate/Pyrite/magnetite filled ruptures/fractures. Mineralized at around 8-10% fine grain pyrite disseminated to late pyritefracture filling. Magnetite.

273.1-273.3 One 90% fracturerured syenite. Pink color, faint porphyritic, strongly fracturerured at 5-55 degree to core axis. Strong silicification/light pink potassic alteration, patchy bleaching carbonate/sericite. Mineralized at 3-5% very fine grain to fine grain pyrite disseminated and late pyritefracture filling to stringers. Magnetite.

273-274 Au=0.436 gpt.

274.2-274.5 70% fracture syenite. Pink color, porphyritic, equigranular. Fractured unit with <5% lapilli tuff at both contacts. Distinguished irregular contacts (mega-xenolith?). Strong Potassic/carbonate alteration to bleached carbonate/sericite patches. Mineralization is up to 4-5% very fine grain to fine grain pyrite disseminated, late pyrite stringers to fracture filling.

274-275 Au=0.550 gpt. Overall alteration is sericite patches with moderate to stronger intesity. Silicification is patchy with stronger intesity in and around where silicified porphyritic syenite injections. Potassic alteration is syenite controlled only. Dark chlorite/hematite/carbonate alteration in dark green lapilli tuff.Mineralization is trace pyrite disseminated overall with up to 2-3% very fine grain to fine grain pyrite stringers/fracture filling and around intrusive contacts.

265.50 267.30 CB; SI; SR

carbonatization; Silicification; Sériciteisation

Carbonatization patches, silicification/Fe-carbonate-sericite increasing.

265.50 267.30 PY03

Pyrite 3%

mineralized at 2-3% medium-grain to fine-grain pyrite disseminated.

From	To	Description
267.30	**268.50**	I2D; PO; TU2 **Syénite; Porphyrique 30°; Tuf intermédiaire** Syenite. Fine grain syenite(dacite?).Reddish porphyritic, fine grain.Alteration is stonger K-Feldspar/hematite/carbonate, quartz cryst(cryst'l tuff?).Weak fracturing. Mostly silica filled fracturing at 50-55 degree to core axis.One carbonate veining at 267.97m-268.05mMineralized at 3-4% medium grain to fine grain pyritefracture filling, rare disseminated.Lower contact is 30 degree to core axis. 252.6-285 Intermediate Tuff lapilli.Orange to greenish to mottled apparence. Aphanitic with porphyritic textures xenoliths/fragments alternating.Lapilli is dark brown, very small to mm size, angular to sub-angular, often oriented at around 50 degree to core axis. Magnetite overprint. Unknown protolith. Ex.(253.6-254).Some subsections with subround feldspar clasts to lapilli?/crystal? polymictic tuff/conglomerate?(254-255).Fracturing is moderate to somewhat strong intesity. Overall alteration is sericite patches with moderate to stronger intesity. Silicification is patchy with stronger intesity in and around where silicified porphyritic syenite injections. Potassic alteration is syenite controlled only. Dark chlorite/hematite/carbonate alteration in dark green lapilli tuff.Mineralization is trace pyrite disseminated overall with up to 2-3% very fine grain to fine grain pyrite stringers/fracture filling and around intrusive contacts.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
267.00	268.00		A0104036	0.0290	Au-ICP21	VO20089352
268.00	269.00		A0104037	0.0370	Au-ICP21	VO20089352

267.30 268.50 CB; HM; FK

carbonatization; Hématisation; Altération en feldspath potassique

Stonger k-feldspar/hematite/carbonate.

267.30 268.50 PY04

Pyrite 4%

mineralized at 3-4% medium-grain to fine-grain pyrite disseminated

From	To	Description
268.50	**270.15**	I2D; PO; TU2 **Syénite; Porphyrique; Tuf intermédiaire** Syenite with <40 basalt. Color is reddish aphanitic, increasing fractures towards the end interval, at ~40 degree to core axis. Alteration is carbonate/hematite and K alteration to banding alternating. At around 268m one 9cm carbonate veining at 60 degree to core axis 1% Py.Mafic is strong fenitization with Fe-carbonate patches.At 268.5m-269m. sericitzation edges only or sericite flakes.Mineralized u to 1% Py.Lower contact is gradual.252.6-285 Intermediate Tuff lapilli.Orange to greenish to mottled apparence. Aphanitic with porphyritic textures xenoliths/fragments alternating.Lapilli is dark brown, very small to mm size, angular to sub-angular, often oriented at around 50 degree to core axis. Magnetite overprint. Unknown protolith. Ex.(253.6-254).Some subsections with subround feldspar clasts to lapilli?/crystal? polymictic tuff/conglomerate?(254-255).Fracturing is moderate to somewhat strong intesity. 271.4-271.8 One monogenic breccia with potassic matrix, followed by carbonate/sericite lapilli tuff(intermediate). <10% crystaline carbonate cement. Carbonate/Pyrite/magnetite filled ruptures/fractures. Mineralized at around 8-10% fine grain pyrite disseminated to late pyritefracture filling. Magnetite.Overall alteration is sericite patches with moderate to stronger intesity. Silicification is patchy with stronger intesity in and around where silicified porphyritic syenite injections. Potassic alteration is syenite controlled only. Dark chlorite/hematite/carbonate alteration in dark green lapilli tuff.Mineralization is trace pyrite disseminated overall with up to 2-3% very fine grain to fine grain pyrite stringers/fracture filling and around intrusive contacts.
268.50	270.15	FK; CB; HM; SR **Altération en feldspath potassique; carbonatization; Hématisation; Séricit** Strong fenitization with Fe-carbonate 268.5m-269m. sericitzation edges only or flakes.
268.50	270.15	PY01 **Pyrite 1%** Mineralized u to 1% pyrite

From	To	Len	SampleID	Au (ppm)	Method	Certificate
269.00	270.00		A0104038	0.0280	Au-ICP21	VO20089352

From	To	Description
270.15	**273.10**	I2D; PO; TU2 **Syénite; Porphyrique; Tuf intermédiaire** Syenite.Mineralized Zone.Fractured syenite, porphyritic, pink to light pink.Carbonate light grey to pinkish. Heavily fractured at 40-50 degree to core axis /chlorite/pyritefilled fractures to stringers.Alterartion is fenitization carbonate/hematite/K-feldspar with strong carbonate patches.Mineralized up to 10% medium grain to fine grain pyritefracture filling Chalcopyrite present.
270.15	273.10	CB; FK; HM **carbonatization; Altération en feldspath potassique; Hématisation** String fenitization carbonate/hematite/k.
270.15	273.10	PY10; CP **Pyrite 10%; Chalcopyrite** up to 10% medium-grain to fine-grain pyrite fracture filling, Chalcopyrite present.
270.15	273.10	FA 45 **Fracturé(e) 45°** heavily fractured at 40-50 degree to-core-axis chlorite/pyrite filled fractures.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
270.00	271.00		A0104039	0.0930	Au-ICP21	VO20089352
271.00	272.00		A0104041	**0.1610**	Au-ICP21	VO20089352
272.00	273.00		A0104042	**0.1570**	Au-ICP21	VO20089352

From	To	Description
273.10	**277.90**	V3B I2D; AP; TU2 **Basalte avec 25 à 50% de syénite; Aphanitique; Tuf intermédiaire** Basalt with <40% syenite. Color is light reddish to orangeish. Aphanitic sections with porphyritic mm size syenite injections.Alteration is silicification increasing, K-feldspar alternating.Mafic alteration is fenitization carbonate with hematite/K-feldspar-feldsparMineralized up to 2% medium grain to fine grain pyrite disseminated. 252.6-285 Intermediate Tuff lapilli.Orange to greenish to mottled apparence. Aphanitic with porphyritic textures xenoliths/fragments alternating.Lapilli is dark brown, very small to mm size, angular to sub-angular, often oriented at around 50 degree to core axis. Magnetite overprint. Unknown protolith. Ex.(253.6-254).Some subsections with subround feldspar clasts to lapilli?/crystal? polymictic tuff/conglomerate?(254-255)fracturing is moderate to somewhat strong intesity.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
273.00	274.00		A0104043	**0.4360**	Au-ICP21	VO20089352
274.00	275.00		A0104044	**0.5500**	Au-ICP21	VO20089352
275.00	276.00		A0104045	0.0200	Au-ICP21	VO20089352
276.00	277.00		A0104046	0.0100	Au-ICP21	VO20089352
277.00	278.00		A0104047	0.0290	Au-ICP21	VO20089352

273.1-273.3 One 90% fracturerured syenite. Pink color, faint porphyritic, strongly fracturerured at 5-55 degree to core axis. Strong silicification/light pink potassic alteration, patchy bleaching carbonate/sericite. Mineralized at 3-5% very fine grain to fine grain pyrite disseminated and late pyrite fracture filling to stringers. Magnetite.

273-274 Au=0.436 gpt. 274.2-274.5 70% fracture syenite. Pink color, porphyritic, equigranular. Fractured unit with <5% lapilli tuff at both contacts. Distinguished irregular contacts (mega-xenolith?). Strong Potassic/carbonate alteration to bleached carbonate/sericite patches. Mineralization is up to 4-5% very fine grain to fine grain pyrite disseminated, late pyrite stringers to fracture filling. 274-275 Au=0.550 gpt.

Overall alteration is sericite patches with moderate to stronger intesity.

Silicification is patchy with stronger intesity in and around where silicified porphyritic syenite injections. Potassic alteration is syenite controlled only. Dark chlorite/hematite/carbonate alteration in dark green lapilli tuff.Mineralization is trace pyrite disseminated overall with up to 2-3% very fine grain to fine grain pyrite stringers/fracture filling and around intrusive contacts.

273.10 277.90 SI; CB; HM; FK

Silicification; carbonatization; Hématisation; Altération en feldspath pota

Silicification increasing, fenitization.

273.10 277.90 PY02

Pyrite 2%

Mineralized up to 2% medium-grain to fine-grain pyrite disseminated

From	To	Description
277.90	**281.60**	V1; PO; TU2 **volcanics contactanique felsique non divisé; Porphyrique; Tuf intermédiaire** Syenite, felsic volcanics contactanic?tuff? Light orange color, aphanitic to porphyritic, possible dacite fine grain porphyritic, ehedral to anhedral quartz cryst, (cryst tuff?).Strongly fractured, with carbonate/silicifieda/Pyrite/magnetite filled fracturing.Patchy hematiteatized with strong carbonateonatizarion, siliicification with biotite specs, patchy fenitization. Fe-carbonate/sericite.Mineralized up to 2% fine grain to medium grain disseminated.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
278.00	279.00		A0104048	0.0870	Au-ICP21	VO20089352
279.00	280.00		A0104049	0.0400	Au-ICP21	VO20089352
280.00	281.00		A0104050	0.0140	Au-ICP21	VO20089352
281.00	282.00		A0104051	0.0170	Au-ICP21	VO20089352

252.6-285 Intermediate Tuff lapilli.Orange to greenish to mottled apparence. Aphanitic with porphyritic textures xenoliths/fragments alternating.Lapilli is dark brown, very small to mm size, angular to sub-angular, often oriented at around 50 degree to core axis. Magnetite overprint. Unknown protolith. Ex.(253.6-254)Some subsections with subround feldspar clasts to lapilli?/crystal? polymictic tuff/conglomerate?(254-255)Fracturing is moderate to somewhat strong intesity.

Overall alteration is sericite patches with moderate to stronger intesity.

Silicification is patchy with stronger intesity in and around where silicified porphyritic syenite injections. Potassic alteration is syenite controlled only. Dark chlorite/hematite/carbonate alteration in dark green lapilli tuff.Mineralization is trace pyrite disseminated overall with up to 2-3% very fine grain to fine grain pyrite stringers/fracture filling and around intrusive contacts.

277.90 278.60 V1; PO

Volcanique felsique non divisé; Porphyrique

277.9m-278.6m possible dacite fine grain porphyric, euhedral to anhedral quartz cryst.

277.90 281.60 CB; HM; BO; SR

carbonatization; Hématisation; Biotitisation; Séricitisation

Patchy hematized with strong carbonatizarion, siliicification with biotite specs, patchy fenitization.Fe-carbonate/sericite.

277.90 281.60 PY02

Pyrite 2%

Mineralized up to 2% fine-grain to medium-grain disseminated.

277.90 281.60 FA

Fracturé(e)

strongly fractured.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

282.00	283.00	A0104052	0.0540	Au-ICP21	VO20089352
283.00	284.00	A0104053	0.0040	Au-ICP21	VO20089352
284.00	285.00	A0104054	0.0020	Au-ICP21	VO20089352

281.60 **285.00** I2D; PO; TU2

Syénite; Porphyrique; Tuf intermédiaire

Syenite with 40% basalt,(Dacite?).Fractured 30% .Orange color, aphanitic to faint porphyritic. Strongly fractured at 50 degree to core axis to stockwork with contactit/Pyrite/magnetite filled fractureruring.Bleached carbonate pervasive with possible sericite/silicification.Mineralized at 1-2% Py/Specularite fracture filling to disseminated carbonate syete.

252.6-285 Intermediate Tuff lapilli.Orange to greenish to mottled apparence. Aphanitic with porphyritic textures xenoliths/fragments alternating.Lapilli is dark brown, very small to mm size, angular to sub-angular, often oriented at around 50 degree to core axis. magnetite overprint. Unknown protolith. Ex.(253.6-254).Some subsections with subround feldspar clasts to lapilli?/crystal? polymictic tuff/conglomerate?(254-255)fracturing is moderate to somewhat strong intesity. Overall alteration is sericite patches with moderate to stronger intesity. Silicification is patchy with stronger intesity in and around where silicified porphyritic syenite injections. Potassic alteration is syenite controlled only. Dark chlorite/hematite/carbonate alteration in dark green lapilli tuff.Mineralization is trace pyrite disseminated overall with up to 2-3% very fine grain to fine grain pyrite stringers/fracture filling and around intrusive contacts.

281.60 285.00 CB

carbonatization

Carbonatized syenite.

281.60 285.00 HS02

Spécularite 2%

mineralized at 1-2% pyrite/Specularite fracture filling to disseminated

281.60 285.00 FA

Fracturé(e)

syenite with 40% basalt or (Dacite?) fractured 30% .

Downhole Survey

Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method
0.00	1.94	-47.00	Collar	54.00	1.20	-48.40	Reflex EZ-Gyro	63.00	3.00	-45.90	Reflex EZ-Gyro
69.00	3.00	-46.00	Reflex EZ-Gyro	87.00	3.95	-54.81	Reflex EZ-Gyro	102.00	2.60	-46.00	Reflex EZ-Gyro
141.00	2.75	-45.72	Reflex EZ-Gyro	171.00	2.30	-45.00	Reflex EZ-Gyro	201.00	2.00	-44.66	Reflex EZ-Gyro
231.00	2.30	-44.60	Reflex EZ-Gyro	261.00	2.49	-44.47	Reflex EZ-Gyro				

Drillhole Information

Easting: 705874.62
Northing: 5491139.15
Elevation: 287.49
Azimuth 360.00
Dip -55.00

Drilling Information

DrillCo: RJLL
DrillID: FSD002
DrillStart: 19-Mar-20
DrillEnd: 22-Mar-20
Length (m): 327.00

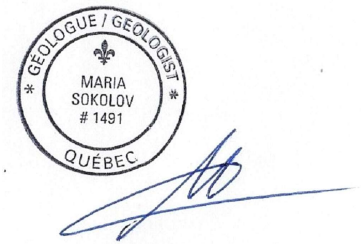
Logging Information

LogBy: M. Sokolov (OGQ #1491)
LogStart: 21-Mar-20
LogEnd: 25-Mar-20

Drillhole Summary

Intercepts >= 0.1 ppm

Hole_ID	From	To	Length	Au (ppm)
DO-20-280	46	47	1	0.308
DO-20-280	68	73	5	0.703
DO-20-280	76	77	1	0.126
DO-20-280	85	92	7	0.711
DO-20-280	104	108	4	0.693
DO-20-280	139	148	9	0.529
DO-20-280	151	153	2	0.13
DO-20-280	161	163	2	0.142
DO-20-280	177	180	3	0.108
DO-20-280	213	214	1	0.174
DO-20-280	219	219.5	0.5	0.186
DO-20-280	222.5	223.2	0.7	0.306
DO-20-280	225	226	1	0.146
DO-20-280	228	229	1	0.568
DO-20-280	236	237	1	0.123
DO-20-280	239	240	1	2.63
DO-20-280	241.7	242.4	0.7	0.355
DO-20-280	269	271	2	0.198
DO-20-280	278	280	2	0.257
DO-20-280	282	283	1	0.112
DO-20-280	284.7	285.3	0.6	0.214
DO-20-280	309	310	1	0.165
DO-20-280	314	317	3	0.137



M. Sokolov (OGQ #1491)

12-Jan-22

Lithology and Assay Results

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
0.00	**45.20**	M-T **Mort terrain** Casing, overburden (basalt boulders).							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
45.20	**49.50**	I2D **Syénite** Syenite. The rock is medium-grained to porphyritic with distinct white and pink Fsp grains, mottled medium beige-grey-pink, patchy carbonatized (interstitial and fracture-filling carbonate), contains minor fine disseminated specks of specular hematite. Minor fluorite in fractures. Magnetism: non-magnetic. Strusture: strongly fractured and microfractured, weakly to moderately sheared with sporadic foliation developed at 40-50CA. Irregular, short Carb-filled mm veinlets - tension gashes. Some dissolution cavities along fractures. Mineralization: traces to 1-2% fine Py, disseminated, fine-grained aggregates in some fractures.	45.20	46.00		A0104312	0.0300	Au-ICP21	VO20089354
			46.00	47.00		A0104313	**0.3080**	Au-ICP21	VO20089354
			47.00	48.00		A0104314	0.0080	Au-ICP21	VO20089354
			48.00	49.00		A0104315	0.0060	Au-ICP21	VO20089354
			49.00	50.00		A0104316	0.0150	Au-ICP21	VO20089354
45.20	46.80	CB; FL; FK; HM; AB; SI **Carbonatisation; Fluoritisation; Altération en feldspath potassique; Héma** Moderate carbonatization - fracture-filling, interstitial. Weak to moderate fluorite in fractures. Weak patchy silicifiaction. Possibly secondary K/Hem alteration, albitization. Minor rusty limonite on fractured surfaces.							

46.80	49.50	CB; SI; FK; HM; AB; FL **Carbonatisation; Silicification; Altération en feldspath potassique; Hémati** Moderate carbonatization, patchy, interstitial, fracture-filling. Reddish pink coloration of the unit may be attributed to secondary K/Hem alteration. Weak to moderate patchy silicification. Minor specular hematite in the matrix, minor fluorite in fractures.	
45.20	50.00	PY01 **Pyrite 1%** Traces to 1-2% fine Py, disseminated, fine-grained aggregates in some fractures.	
45.20	49.50	CS; FA; BX **Cisaillé(e) 45°; Fracturé(e); Bréchique** Strongly fractured and microfractured, weakly to moderately sheared with sporadic foliation developed at 40-50CA; irregular, short, mm Carb veinlets, tension gashes. Foliation is crosscut by occasional fractures at 25-35CA. Dissolution cavities occur along some fractures. At 45.5-46 m - flat fractures with fluorite infilling.	45

From	To	Description
49.50	**60.00**	I2D; I4Q; CS **Syénite; Carbonatite; Cisaillé** Continuation of Syenite, partially overprinted by carbonatite-related alteration. Same pink-grey, medium-grained, fractured Syenite with ~5% sheeted carbonate/carbonatite veins, typically foliated at 25-35CA. Carbonate veins are a few mm to a few cm wide, creamy-white, beige to grey, pink, fine-grained, sugary, sometimes contain dark grey anhedral masses enriched in PO4 (13%), Ti (2%) and REEs (up to 1100 ppm Ce+La). Locally fine, black, prismatic grains randomly disseminated in the matrix. Non-magnetic. Structure: strong irregular fracturing in syenite, locally crackle brecciation, some parts are sheared, foliated at 50-55CA. Carbonate/carbonatite sheeted veins are oriented at 25-35CA. Dissolution cavities along fractures. At 53-53.8 m - a flat, irregular fracture along the core axis, with dissolution cavities. Mineralization: traces to 1-3% Py fine disseminated grains and aggregates in carbonate/carbonatite-altered parts, veins; traces to 0.5-1% Py fine grains disseminated in syenite.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
50.00	51.00		A0104317	0.0120	Au-ICP21	VO20089354
51.00	52.00		A0104318	0.0110	Au-ICP21	VO20089354
52.00	53.00		A0104319	0.0120	Au-ICP21	VO20089354
53.00	54.00		A0104320	0.0310	Au-ICP21	VO20089354
54.00	55.50		A0104322	0.0140	Au-ICP21	VO20089354
55.50	57.00		A0104323	0.0400	Au-ICP21	VO20089354
57.00	58.00		A0104324	0.0090	Au-ICP21	VO20089354
58.00	59.00		A0104325	0.0110	Au-ICP21	VO20089354
59.00	60.00		A0104326	0.0150	Au-ICP21	VO20089354

Blocky core. At 54-55.5 m - CNR.

An arbitrary lower contact.

49.50	60.00	CB; SI; FK; HM; AB **Carbonatisation; Silicification; Altération en feldspath potassique; Hémati** Moderate to strong carbonatite-related carbonatization, veins, patches, fracture-filling. Possibly secondary reddish K/Hem alteration. Weak to moderate patchy silcification. White albite (?) in some fractures. Very minor fluorite in fractures.	
50.00	54.00	PY02 **Pyrite 2%** 1-3% Py fine disseminated grains and aggregates in carbonate/carbonatite-altered parts, veins; traces to 0.5-1% Py fine grains disseminated in syenite.	
55.50	60.00	PY00.75 **Pyrite 0.75%** Traces to 0.5-1% Py fine grains disseminated in syenite and in carbonate/carbonatite veins.	
49.50	54.00	FA; CS **Fracturé(e); Cisaillé(e) 30°** Strong irregular fracturing in syenite, locally crackle brecciation. Carbonate/carbonatite sheeted veins are foliated at 25-35CA; some parts of syenite are foliated at 50-55CA. Dissolution cavities along fractures. At 53-53.8 m - a flat, irregular fracture along the core axis with dissolution cavities.	30
54.00	55.50	CNR **Carotte non récupérée** CNR	
55.50	60.00	FA; CS **Fracturé(e); Cisaillé(e) 30°** Strong irregular fracturing in syenite, locally crackle brecciation, some parts are sheared, foliated at 50-55CA. Carbonate/carbonatite sheeted veins are oriented at 25-35CA. Dissolution cavities along fractures.	30

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description
60.00	**63.00**	I2D; I4Q; CS **Syénite; Carbonatite; Cisaillé** Syenite, strongly fractured and sheared, overprinted by carbonatite. Mottled, pale to medium grey, beige, pink, frequent rusty limonite-altered, weathered zones, a few cm to 1-2 dm in length. Non-magnetic. Structure: blocky core, strongly fractured syenite with sheeted carbonatite veins foliated at 45 to 65CA. Dissolution cavities. Mineralization: mostly traces Py, locally 0.5-1% very fine, disseminated Py and fine-grained aggregates in fractures. An arbitrary lower contact.
60.00	63.00	LM; CB; FK; HM **Limonitisation; Carbonatisation; Altération en feldspath potassique; Hém** Frequent patches of rusty limonite alteration. Moderate to strong carbonatite-related carbonatization. Tiny, black, prismatic grains diseminated in the matrix. Pink Hem/K possibly secondary alteration. Very minor fluorite grains.
60.00	63.00	PY00.5 **Pyrite 0.5%** Mostly traces Py, locally 0.5-1% very fine, disseminated Py and fine-grained aggregates in fractures.
60.00	63.00	CS; FA 55 **Cisaillé(e) 55°; Fracturé(e)** Strongly fractured syenite with sheeted carbonatite veins foliated at 45 to 65CA.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
60.00	61.00		A0104327	0.0070	Au-ICP21	VO20089354
61.00	62.00		A0104328	0.0050	Au-ICP21	VO20089354
62.00	63.00		A0104329	0.0100	Au-ICP21	VO20089354

From	To	Description
63.00	**68.20**	I2D; I4Q; CS **Syénite; Carbonatite; Cisaillé** Continuation of sheared Syenite overprinted by carbonatite. The interval looks mottled, pale grey, pink, beige, medium to fine-grained often with a sugary texture. Strong patchy to pervasive carbonatization, patchy siicification, relicts of pink K-rich groundmass. There are fine, black grains disseminated in the matrix, rather soft but without red streak characteristic of hematite. Also, there are dark grey, fine-grained patches and anhedral grains enriched in PO4, Ti, and REEs (Ce, La, +/-Nd up to 800 ppm) - possibly apatite, titanite. Fluorite and carbonate (calcite) in fractures and dissolution cavities.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
63.00	64.00		A0104330	0.0110	Au-ICP21	VO20089354
64.00	65.00		A0104331	0.0890	Au-ICP21	VO20089354
65.00	66.00		A0104332	0.0550	Au-ICP21	VO20089354
66.00	67.00		A0104333	0.0120	Au-ICP21	VO20089354
67.00	68.00		A0104334	0.0580	Au-ICP21	VO20089354

Non-magnetic.

Structure: syenite matrix is microbrecciated and cemented by carbonate; frequent foliated zones with sheeted carbonatite veins or shear bands at 65-70CA.

Mineralization: traces to 0.5-1% fine Py in foliated zones, fine diss grains, rare coarse grains; overall, less than 1%. Traces Cpy.

An approximate lower contact.

63.00 68.20 CB; FK; FL

Carbonatisation; Altération en feldspath potassique; Fluoritisation

Moderate to strong carbonatite-related carbonatization. Tiny, black, prismatic grains diseminated in the matrix - titanite? Px?. Pink Hem/K possibly secondary alteration or relicts of the original syenite.
Fluorite in fractures and dissolution cavities along with carbonate (calcite).

63.00 68.20 PY00.75; CPtr

Pyrite 0.75%; Chalcopyrite tr

Traces to 0.5-1% fine Py in foliated zones, fine diss grains, rare coarse grains; overall, less than 1%. Traces Cpy.

63.00 68.20 CS; FA 65

Cisaillé(e) 65°; Fracturé(e)

Syenite matrix is microbrecciated and cemented by carbonate; frequent foliated zones with sheeted carbonatite veins or shear bands at 65-70CA. Some dissolution cavities, mm to a few cm in size, with druzy carbonate (calcite) and fluorite.

From	To	Description
68.20	**90.00**	I2D **Syénite** Syenite. Pale grey-pink, medium-grained with 1-2% medium grey, blebby phenocrysts which give the rock a spotted appearance. Some parts are bleached, silicified, probably albitized. Locally reddish K/Hem patches - relicts of the original syenite and secondary potassic alteration. Moderate carbonatization - interstitial, patchy, fracture-filling, with slightly elevated REEs (Ce +/-La 100-300 ppm). XRF shows presence of Mg and Fe in carbonate, which mildly reacts to HCl, so it is dolomite/Fe-dolomite in composition. Fractures and mm veinlets are filled by carbonate, quartz and albite. Minor fluorite in fractures

From	To	Len	SampleID	Au (ppm)	Method	Certificate
68.00	69.00		A0104335	**0.1270**	Au-ICP21	VO20089354
69.00	70.00		A0104337	**2.1500**	Au-ICP21	VO20089354
70.00	71.00		A0104338	0.0510	Au-ICP21	VO20089354
71.00	72.00		A0104339	**0.4620**	Au-ICP21	VO20089354
72.00	73.00		A0104340	**0.7230**	Au-ICP21	VO20089354
73.00	74.00		A0104341	0.0730	Au-ICP21	VO20089354
74.00	75.00		A0104342	0.0910	Au-ICP21	VO20089354
75.00	76.00		A0104343	0.0310	Au-ICP21	VO20089354
76.00	77.00		A0104344	**0.1260**	Au-ICP21	VO20089354
77.00	78.00		A0104345	0.0110	Au-ICP21	VO20089354

and dissolution cavities.
Non-magnetic

Structure: strongly fractured with frequent dissolution cavities along fractures. Fractures are variably oriented, commonly at 45-60CA. Occasional flat, irregular fractures at 5-15CA. Locally sheeted/foliated carbonate / carbonatite-related veins oriented at 25 to 55CA.

Mineralization: traces to 0.5-1% fine disseminated Py cubic grains, fine-grained aggregates in irregular fractures (stylolites?), locally up to 2-3%. From ~87.5 to 92.5 m- 1-3% Py fine to med-size disseminated grains and fine-grained aggregates in irregular fractures.

An arbitrary lower contact is marked to note slight textural changes (disapperance of grey blebby phenocrysts).

78.00	79.00	A0104346	0.0070	Au-ICP21	VO20089354
79.00	80.00	A0104347	0.0110	Au-ICP21	VO20089354
80.00	81.00	A0104348	0.0160	Au-ICP21	VO20089354
81.00	82.00	A0104349	0.0100	Au-ICP21	VO20089354
82.00	83.00	A0104350	0.0180	Au-ICP21	VO20089354
83.00	84.00	A0104351	0.0110	Au-ICP21	VO20089354
84.00	85.00	A0104353	0.0960	Au-ICP21	VO20089354
85.00	86.00	A0104354	**0.1490**	Au-ICP21	VO20089354
86.00	87.00	A0104355	0.0780	Au-ICP21	VO20089354
87.00	88.00	A0104356	**0.1940**	Au-ICP21	VO20089354
88.00	89.00	A0104357	**0.5910**	Au-ICP21	VO20089354
89.00	90.00	A0104358	**1.5300**	Au-ICP21	VO20089354

68.20 90.00 CB; SI; AB; FK; FL

Carbonatisation; Silicification; Albitisation; Altération en feldspath potassi

Moderate carbonatization, patchy, interstitial, fracture-filling. Weak to moderate patchy silicification, albitization. Fine black grains disseminated in the matrix - titanite? Px?
Carbonate, albite, quartz in fractures, mm veinlets. Minor fluorite in fractures and dissolution cavities.
Locally reddish K/Hem patches - relicts of the original syenite and secondary potassic alteration.

68.20 87.50 PY01

Pyrite 1%

Traces to 0.5-1% fine disseminated Py cubic grains, fine-grained aggregates in irregular fractures (stylolites?), locally up to 2-3%.

87.50 92.50 PY01.5

Pyrite 1.5%

1-3% Py fine to med-size disseminated grains and fine-grained aggregates in irregular fractures.

68.20 90.00 FA 50

Fracturé(e) 50°

Strongly fractured syenite with frequent dissolution cavities along fractures. Fractures and mm veinlets, gashes (?) are variably oriented, commonly at 45-60CA, filled by carbonate, quartz, albite. Occasional flat, irregular fractures at 5-15CA. Locally sheeted carbonate / carbonatite-related veins oriented at 25 to 55CA.

76.5-77.0 m - sheeted/foliated carbonate veins at 25CA and at 50CA,

oriented in two opposite directions; 0.3 to 2 cm wide, grey-beige.
89.15-89.55 m - sheeted/foliated carbonate veins at 35 to 50CA.

From	To	Description
90.00	**106.50**	I2D; GF **Syénite; Grains fins** Syenite. The rock is pale grey-pink to pale gray, fine to medium-grained with a micro-porphyritic texture formed by colorless, anhedral grains (Fsp?), rather uniform in appearance. Locally weak reddish pink patchy Hem/K-alteration. Pervasively carbonatized, hard to scratch, siliceous/silicified. Contains tiny, dust-size black needles disseminated in the matrix (titanite?). Non-magnetic. Structure: moderately fractured with Carb, Alb, Qz infilling; fractures and mm veinlets are variably oriented at angles ranging from 25 to 65CA (mainly 45-55CA). Occasional flat, irregular fractures. Some dissolution cavities, less frequent than in the previous unit. Mineralization: from 90 to ~92.5-93 m – 1-2% Py fine disseminated grains and fine-grained aggregates in fractures. After that, traces to 0.5% fine Py. The lower contact is distinct by changes in grain size; marked by a fracture at 25CA.
90.00	106.50	CB; SI; FK; AB; FL **Carbonatisation; Silicification; Altération en feldspath potassique; Albitisa** Moderate to strong pervasive carbonatization, silicification, possibly albitization. Locally weak reddish pink patchy Hem/K-alteration. MInor fluorite in dissolution cavities. fine grains in the matrix.
92.50	106.50	PY00.5 **Pyrite 0.5%** Traces to 0.5% fine Py.
90.00	106.50	FA **Fracturé(e)** Moderately fractured with Carb, Alb, Qz infilling; fractures and mm veinlets are variably oriented at angles ranging from 25 to 65CA (mainly 45-55CA). Occasional flat, irregular fractures. Some dissolution cavities, less frequent than in the previous unit.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
90.00	91.00		A0104359	**1.8800**	Au-ICP21	VO20089354
91.00	92.00		A0104360	**0.5550**	Au-ICP21	VO20089354
92.00	93.00		A0104361	0.0910	Au-ICP21	VO20089354
93.00	94.00		A0104362	0.0670	Au-ICP21	VO20089354
94.00	95.00		A0104363	0.0230	Au-ICP21	VO20089354
95.00	96.00		A0104364	0.0200	Au-ICP21	VO20089354
96.00	97.00		A0104365	0.0170	Au-ICP21	VO20089354
97.00	98.00		A0104366	0.0310	Au-ICP21	VO20089354
98.00	99.00		A0104367	0.0140	Au-ICP21	VO20089354
99.00	100.00		A0104368	0.0110	Au-ICP21	VO20089354
100.00	101.00		A0104370	0.0110	Au-ICP21	VO20089354
101.00	102.00		A0104371	0.0150	Au-ICP21	VO20089354
102.00	103.00		A0104372	0.0190	Au-ICP21	VO20089354
103.00	104.00		A0104373	0.0960	Au-ICP21	VO20089354
104.00	105.00		A0104374	**0.2090**	Au-ICP21	VO20089354
105.00	106.00		A0104375	0.0230	Au-ICP21	VO20089354
106.00	106.50		A0104376	**0.2560**	Au-ICP21	VO20089356

From	To	Description

From	To	Len	SampleID	Au (ppm)	Method	Certificate

106.50 140.00 I2D

Syénite 25°

Syenite.
The rock is mottled, pale grey-pink to grey-beige, medium-grained, in parts coarse-grained. Some intervals have a spotted appearance due to the presence of 1-2% small, greyish beige, fine-grained blebs with fuzzy contours. The matrix is patchy carbonatized, silicified, albitized, hard to scratch, non-magnetic.
Weak to moderate reddish K/Hem patchy alteration occurs in the upper portion (106.5-113.5 m). This portion contains fractures and veinlets filled by carbonatite-related minerals with elevated Ti, Ba, PO4, REEs (up to 0.65% Ce, La, Nd, Y combined) and Zr. Minor fluorite occurs in dissolution cavities, fractures and small grains in the matrix.

Structure: the unit is strongly fractured, often microbrecciated, locally weakly foliated. Dissolution cavities along some fractures.
There are two distinct fracture orientations:
1) low-angle fractures, at 5-25CA, filled by carbonate/carbonatite, baryte, fluorite, albite and other carbonatite-related exotic minerals and often mineralized by fine pyrite.
2) fractures oriented at 35-60CA, irregular, filled by carbonate, quartz, albite; common en-echelon fractures.

At 106.5 m, there is a pyritized fracture with fluorite and baryte at 25CA. Several short, en-echelon, fractures (S3 gashes) are oriented at 50-55CA and terminate on the low-angle fracture. Gashes are partially dissolved.
At 107.25, 108 and 108.6 m, there are decimetric, carbonatite-injected zones foliated at 55-60CA.

Mineralization:
106.5-113.5 m - 1-3% Py fine and med-size disseminated subhedral to euhedral grains, fine-grained aggregates in fractures.
113.5-140 m - traces to 1-2% Py fine disseminated cubic grains and fine-grained aggregates in interstices, fractures.

An arbitrary lower contact.

137.25 138.50 I2D; I4Q; CS

Syénite; Carbonatite; Cisaillé

Syenite with foliated/sheeted and irregular-shaped carbonatite injections, patchy red K/Hem alteration (fenitization), elevated REEs (Ce, La, Nd, Pr, Y up to 0.65%) and PO4. Strongly fractured, mineralized by 1-3% fine Py. Carbonatite veins are foliated at 30 to 55CA.

106.50 113.50 CB; SI; SI; FK; HM; AB; FL

Carbonatisation; Silicification; Silicification; Altération en feldspath potass

106.50	107.25	A0104377	**1.7850**	Au-ICP21	VO20089356
107.25	108.00	A0104378	**1.4300**	Au-ICP21	VO20089356
108.00	109.00	A0104379	0.0280	Au-ICP21	VO20089356
109.00	110.00	A0104380	0.0490	Au-ICP21	VO20089356
110.00	111.00	A0104381	0.0290	Au-ICP21	VO20089356
111.00	112.00	A0104382	0.0450	Au-ICP21	VO20089356
112.00	113.00	A0104383	0.0450	Au-ICP21	VO20089356
113.00	114.00	A0104385	0.0190	Au-ICP21	VO20089356
114.00	115.00	A0104386	0.0100	Au-ICP21	VO20089356
115.00	116.00	A0104387	0.0320	Au-ICP21	VO20089356
116.00	117.00	A0104388	0.0240	Au-ICP21	VO20089356
117.00	118.00	A0104389	0.0160	Au-ICP21	VO20089356
118.00	119.00	A0104390	0.0260	Au-ICP21	VO20089356
119.00	120.00	A0104391	0.0070	Au-ICP21	VO20089356
120.00	121.00	A0104392	0.0200	Au-ICP21	VO20089356
121.00	122.00	A0104393	0.0270	Au-ICP21	VO20089356
122.00	123.00	A0104394	0.0110	Au-ICP21	VO20089356
123.00	124.00	A0104395	0.0160	Au-ICP21	VO20089356
124.00	125.00	A0104396	0.0350	Au-ICP21	VO20089356
125.00	126.00	A0104397	0.0280	Au-ICP21	VO20089356
126.00	127.00	A0104398	0.0280	Au-ICP21	VO20089356
127.00	128.00	A0104399	0.0040	Au-ICP21	VO20089356
128.00	129.00	A0104401	0.0260	Au-ICP21	VO20089356
129.00	130.00	A0104402	0.0360	Au-ICP21	VO20089356
130.00	131.00	A0104403	0.0550	Au-ICP21	VO20089356
131.00	132.00	A0104404	0.0420	Au-ICP21	VO20089356
132.00	133.00	A0104405	0.0260	Au-ICP21	VO20089356
133.00	134.00	A0104406	0.0070	Au-ICP21	VO20089356
134.00	135.00	A0104407	0.0090	Au-ICP21	VO20089356
135.00	136.00	A0104409	0.0360	Au-ICP21	VO20089356
136.00	137.00	A0104410	0.0190	Au-ICP21	VO20089356
137.00	138.00	A0104411	0.0280	Au-ICP21	VO20089356
138.00	139.00	A0104412	0.0410	Au-ICP21	VO20089356
139.00	140.00	A0104413	**0.1170**	Au-ICP21	VO20089356

Carbonatisation; Silicification; Silicification; Alteration en feldspath potass

Moderate to strong patchy carbonatization, silicification, weak to moderate patchy reddish Hem/K alteration. Carbonatite-related minerals in fractures including carbonate, baryte, fluorite, apatite, possibly titanite, and other exotic minerals.

113.50 140.00 SI; AB; CB; FL

Silicification; Albitisation; Carbonatisation; Fluoritisation

Moderate to strong, patchy to pervasive silicification, albitization. Weak to moderate carbonatization - interstitial, fracture-filling. Minor fluorite in fractures, cavities, fine grains in the matrix.
There are scattered small, 0.5-2 mm, dark grey to beige-grey, roundish, anhedral, fine-grained blebs with fuzzy contours.

106.50 113.50 PY02

Pyrite 2%

1-3% Py fine and med-size disseminated subhedral to euhedral grains, fine-grained aggregates in fractures.

113.50 137.25 PY01

Pyrite 1%

Traces to 1-2% Py fine disseminated cubic grains and fine-grained aggregates in interstices, fractures.

137.25 138.50 PY02

Pyrite 2%

1-3% fine Py in fenitized syenite with carbonatite injections.

138.50 141.00 PY00.5

Pyrite 0.5%

Traces to 0.5% fine Py.

106.50 113.50 FA

Fracturé(e)

The interval is strongly fractured, often microbrecciated, locally weakly foliated. Dissolution cavities along some fractures.
There are two distinct fracture orientations:
1) low-angle fractures, at 5-25CA, filled by carbonate/carbonatite, baryte, fluorite, albite and other carbonatite-related exotic minerals and often mineralized by fine pyrite.
2) fractures oriented at 35-55CA, irregular, filled by carbonate, quartz, albite.

At 106.5 m, there is a pyritized fracture with fluorite and baryte at 25CA. Several short, en-echelon, fractures (S3 gashes) are oriented at 50-55CA and terminate on the low-angle fracture. Gashes are partially dissolved.
At 107.25, 108 and 108.6 m, there are decimetric, carbonatite-injected zones foliated at 55-60CA.

113.50 140.00 FA

Fracturé(e)

Moderate to strong fracturing, locally crackle brecciation. Fractures are sub-mm to 1-2 mm wide, filled by creamy white carbonate, variably oriented at angles ranging from 20 to 60CA, common en-echelon fractures. Dissolution cavities along some fractures.

From	To	Description
140.00	**156.00**	I2D **Syénite** Syenite, Pale pinkish grey to beige-grey, medium-grained to micro-porphyritic, locally coarse-grained, patchy to pervasively silicified and albitized, weakly to moderately carbonatized. Locally weak, red K/Hem patchy alteration. There are tiny black needles disseminated in the matrix (aegirine? titanite?). Minor fluorite in fractures and cavities. Greyish silicification halos around some fractures. Non-magnetic. Structure: strongly fractured with carbonate and colorless silica infilling, frequent dissolution cavities along variably oriented fractures. Mineralization: 141 to ~148 m – 1-4% fine to med Py subhedral to euhedral grains disseminated in the matrix and silicified patches, fine-grained aggregates in fractures. from ~148 m – traces to 0.5-1% Py. 151 m - a yellowish white carbonate vein with traces Cpy. The lower contact is approximate.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
140.00	141.00		A0104414	**0.1610**	Au-ICP21	VO20089356
141.00	142.00		A0104415	**0.8570**	Au-ICP21	VO20089356
142.00	143.00		A0104416	**1.2150**	Au-ICP21	VO20089356
143.00	144.00		A0104417	**1.0250**	Au-ICP21	VO20089356
144.00	145.00		A0104418	**0.7240**	Au-ICP21	VO20089356
145.00	146.00		A0104419	**0.2160**	Au-ICP21	VO20089356
146.00	147.00		A0104420	**0.3070**	Au-ICP21	VO20089356
147.00	148.00		A0104421	**0.1430**	Au-ICP21	VO20089356
148.00	149.00		A0104422	0.0250	Au-ICP21	VO20089356
149.00	150.00		A0104423	0.0350	Au-ICP21	VO20089356
150.00	151.00		A0104424	0.0260	Au-ICP21	VO20089356
151.00	152.00		A0104426	**0.1560**	Au-ICP21	VO20089356
152.00	153.00		A0104427	**0.1030**	Au-ICP21	VO20089356
153.00	154.00		A0104428	0.0760	Au-ICP21	VO20089356
154.00	155.00		A0104429	0.0690	Au-ICP21	VO20089356
155.00	156.00		A0104430	0.0180	Au-ICP21	VO20089356

140.00 156.00 SI; AB; CB; FL; FK

Silicification; Albitisation; Carbonatisation; Fluoritisation; Altération en fel

Moderate to strong, patchy to pervasive silicification, albitization. Weak to moderate carbonatization - interstitial, fracture-filling. Minor fluorite in fractures, cavities, fine grains in the matrix.
Locally weak red-pink K/Hem patchy alteration.

141.00 148.00 PY02

Pyrite 2%

1-4% fine to med Py subhedral to euhedral grains disseminated in the matrix and silicified patches, fine-grained aggregates in fractures.

148.00 156.00 PY00.5

Pyrite 0.5%

Traces to 0.5-1% fine Py in silicified patches.

140.00 156.00 FA

Fracturé(e)

Strongly fractured with carbonate and colorless silica infilling, frequent dissolution cavities along variably oriented fractures. Angles vary from 15 to 55CA.
Greysh silicification around some fractures.

From	To	Description
156.00	**160.00**	I2D **Syénite** Syenite. Pale grey-pink with a spotted appearance caused by 2-3% grey, fine-grained blebs; medium-grained, in parts coarse-grained. Minor dusty black needles disseminated in the matrix. Moderate carbonate alteration in fractures and interstices, patchy silicification, possibly albitization. Locally reddish patchy K/Hem alteration. Minor fluorite in dissolution cavities. Non-magnetic. Structure: moderate to strong irregular fracturing with carbonate and silica infilling; common dissolution cavities along variably oriented fractures. Mineralization: traces to 1-2% Py fine and lesser medium-size disseminated grains and fine-grained aggregates in some fractures. An arbitrary lower contact, syenite gradually becomes less bleached, more hematite-altered.
156.00	160.00	CB; SI; FK; AB; FL **Carbonatisation; Silicification; Altération en feldspath potassique; Albitisa** Moderate carbonate alteration in fractures and interstices, patchy silicification, possibly albitization. Locally reddish patchy K/Hem alteration. Minor fluorite in dissolution cavities.
156.00	160.00	PY01 **Pyrite 1%** Traces to 1-2% Py fine and lesser medium-size disseminated grains and fine-grained aggregates in some fractures.
156.00	160.00	FA **Fracturé(e)** Moderate to strong irregular fracturing with carbonate and silica infilling;

From	To	Len	SampleID	Au (ppm)	Method	Certificate
156.00	157.00		A0104431	0.0120	Au-ICP21	VO20089356
157.00	158.00		A0104432	0.0070	Au-ICP21	VO20089356
158.00	159.00		A0104433	0.0070	Au-ICP21	VO20089356
159.00	160.00		A0104434	0.0130	Au-ICP21	VO20089356

common dissolution cavities along variably oriented fractures.

From	To	Description
160.00	**170.10**	I2D **Syénite** Syenite. Medium grey-pink, less bleached, with dark grey-mauve, red and specular hematite-altered relicts which create a pseudo-brecciated texture. The matrix is medium-grained, in parts coarser, with distinct white and pink Fsp grains. Small blebs seen in the previous unit are also present here but they are beige-altered and not too distinct. Non-magnetic; a few dark patches are faintly magnetic. Structure: moderate to strong fracturing with carbonate infilling. One distinct set of fractures is oriented at 25-30CA. Common dissolution cavities along variably oriented fractures lined with crystals of carbonate, quartz, fluorite, traces Cpy. Mineralization: traces Py. 167.5-168.5 m – traces to 0.5-1% very fine disseminated Py and fine-grained aggregates in irregular fractures, traces Cpy. At 168.5 to 170.1 m - syenite overprinted by carbonatite-related alteration. Dark grey-mauve, fine-grained groundmass contains small, squarish, grey-white disseminated crystals (carbonate, apatite), patches of beige carbonate. XRF shows highly elevated PO4 (13%), REEs (up to 0.2% combined) and elevated trace Cu (110 ppm) and Zn (170 ppm). Traces to 0.5% fine Py, traces Cpy.. The lower contact is approximate, marked at the beginning of bleached syenite.
160.00	170.10	CB; HM; SI; FK; FL **Carbonatisation; Hématisation; Silicification; Altération en feldspath pota** Moderate to strong carbonatization - fracture-filling, interstitial. Moderate pervasive to patchy red and specular Hem. Possibly secondary potassic alteration. Minor fluorite, albite, quartz in fractures, cavities.
160.00	167.50	PYtr **Pyrite tr** Traces Py.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
160.00	161.00		A0104435	0.0410	Au-ICP21	VO20089356
161.00	162.00		A0104436	**0.1500**	Au-ICP21	VO20089356
162.00	163.00		A0104437	**0.1340**	Au-ICP21	VO20089356
163.00	164.00		A0104438	0.0040	Au-ICP21	VO20089356
164.00	165.00		A0104439	0.0070	Au-ICP21	VO20089356
165.00	166.00		A0104441	0.0010	Au-ICP21	VO20089356
166.00	167.00		A0104442	0.0060	Au-ICP21	VO20089356
167.00	168.00		A0104443	0.0210	Au-ICP21	VO20089356
168.00	169.00		A0104444	0.0110	Au-ICP21	VO20089356
169.00	170.00		A0104445	0.0240	Au-ICP21	VO20089356

167.50 170.10 PY00.5; CPtr

Pyrite 0.5%; Chalcopyrite tr

Traces to 0.5-1% very fine disseminated Py and fine-grained aggregates in irregular fractures, traces Cpy.

167.50 170.10 FA

Fracturé(e)

Moderate to strong fracturing with carbonate infilling. One distinct set of fractures is oriented at 25-30CA. Common dissolution cavities along variably oriented fractures lined with crystals of carbonate, quartz, albite, fluorite, traces Cpy.

From	To	Description
170.10	**178.00**	I2D **Syénite** Syenite. Pale grey-pink to beige-grey with a spotted appearance caused by 1-3% small grey to grey-beige blebs. Minor dusty black needles disseminated in the matrix. Moderate carbonate alteration in fractures and interstices, patchy silicification, possibly albitization. Minor fluorite in cracks, dissolution cavities. Non-magnetic. Structure: moderately to strongly fractured with carbonate, silica and albite infilling, dissolution cavities along some variably oriented fractures. Mineralization: traces Py, locally 0.5-1% fine Py disseminated grains, in fractures and grey blebs. From 177.7 m - increasing amounts of Py to 2-3%. A rather distinct lower contact marked by changes in colour, alteration.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
170.00	171.00		A0104446	0.0350	Au-ICP21	VO20089356
171.00	172.00		A0104447	0.0700	Au-ICP21	VO20089356
172.00	173.00		A0104448	0.0240	Au-ICP21	VO20089356
173.00	174.00		A0104449	0.0230	Au-ICP21	VO20089356
174.00	175.00		A0104450	0.0230	Au-ICP21	VO20089356
175.00	176.00		A0104451	0.0190	Au-ICP21	VO20089356
176.00	177.00		A0104452	0.0420	Au-ICP21	VO20089356
177.00	178.00		A0104453	**0.1100**	Au-ICP21	VO20089356

170.10 178.00 CB; SI; AB; FL

Carbonatisation; Silicification; Albitisation; Fluoritisation

Moderate carbonate alteration in fractures and interstices, patchy silicification; silica, carbonate, albite n fractures, Minor fluorite in dissolution cavities.

170.10 176.80 PY00.5; CPtr

Pyrite 0.5%; Chalcopyrite tr

Traces Py, locally 0.5-1% fine Py disseminated grains, in fractures and grey blebs. Traces Cpy.

176.80 177.70 PY01

Pyrite 1%

0.5-2% Py fine grains and fine-grained aggregates in blebs, fractures, interstices.

170.10 178.00 FA

Fracturé(e)

Moderate to strong fracturing at various angles with carbonate, silica and albite infilling, dissolution cavities along some fractures.

From	To	Description
178.00	**180.60**	I2D; I4Q **Syénite; Carbonatite** A mineralized zone in bleached syenite. Mottled pale to moderate grey, medium-grained, pervasively to patchy silicified, carbonatized and albitized. MInor fluorite in cracks. At 180 m - Carbonatite injections in fractures with carbonate, baryte, apatite, and other exotic minerals. XRF shows highly elevated REEs (up to 0.5% combined Ce, La, Y), PO4 (1-2%). Non-magnetic. Structure: strongly fractured, in parts microbrecciated and cemented by carbonate. Intermittent, weakly-developed foliation at 20 to 35CA. Mineralization: 2-5% Py fine disseminated grains and fine-grained aggregates in irregular fractures, interstices. The lower contact is marked at the end of the mineralized zone.
178.00	180.60	SI; CB; AB; FL **Silicification; Carbonatisation; Albitisation; Fluoritisation** Strong pervasive to patchy silicification, carbonatization and albitization. MInor fluorite in cracks.
177.70	180.60	PY03 **Pyrite 3%** 2-5% Py fine disseminated grains and fine-grained aggregates in irregular fractures, blebs.
178.00	180.60	FA; BX; CS 30 **Fracturé(e); Bréchique; Cisaillé(e) 30°** Strongly fractured, in parts microbrecciated and cemented by carbonate. Intermittent, weakly-developed foliation at 20 to 35CA.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
178.00	179.00		A0104454	0.0790	Au-ICP21	VO20089356
179.00	180.00		A0104455	**0.1350**	Au-ICP21	VO20089356
180.00	180.60		A0104457	0.0290	Au-ICP21	VO20089356

From	To	Description
180.60	**198.50**	I2D **Syénite 30°** Syenite, bleached. Pale pinkish grey to beige-grey with a patchy appearance, medium-grained with distinct white, anhedral Fsp grains, moderate to strong patchy silicification, albitization, interstitial and fracture-filling carbonatization. Occasional grey-beige blebs with fuzzy contours; fine black needles disseminated in the matrix. Very minor fluorite in some fractures. Non-magnetic. Structure: strongly fractured, in parts microbrecciated and cemented by carbonate. Fractures are variably oriented at angles ranging from 0 to 60CA, sub-mm to mm wide, crisscrossing. One distinct set of fractures is oriented at 20-35CA. Minor dissolution cavities. Mineralization: 180.6-189 m - traces to 0.5-1% fine Py disseminated. 189-198 m - 0.5 to 3% Py fine disseminated grains and fine-grained aggregates in irregular fractures. A somewhat distinct lower contact at 30-35CA.
180.60	198.50	CB; SI; AB **Carbonatisation; Silicification; Albitisation** Moderate to strong patchy silicification, patchy to pervasive albitization, moderate to strong interstitial and fracture-filling carbonatization. Very minor fluorite in cracks.
180.60	189.00	PY00.5 **Pyrite 0.5%** Traces to 0.5-1% fine Py disseminated grains.
189.00	198.00	PY01.5 **Pyrite 1.5%** 0.5 to 3% fine Py disseminated grains and fine-grained aggregates in irregular fractures.
180.60	189.00	FA **Fracturé(e)** Strongly fractured, in parts microbrecciated and cemented by carbonate. Fractures are variably oriented at angles ranging from 0 to 60CA, sub-mm to mm wide, crisscrossing. One distinct set of fractures is oriented at 20-

From	To	Len	SampleID	Au (ppm)	Method	Certificate
180.60	181.30		A0104458	0.0260	Au-ICP21	VO20089356
181.30	182.00		A0104459	0.0160	Au-ICP21	VO20089356
182.00	183.00		A0104460	0.0180	Au-ICP21	VO20089356
183.00	184.00		A0104461	0.0440	Au-ICP21	VO20089356
184.00	185.00		A0104462	0.0740	Au-ICP21	VO20089356
185.00	186.00		A0104463	0.0210	Au-ICP21	VO20089356
186.00	187.00		A0104464	0.0150	Au-ICP21	VO20089356
187.00	188.00		A0104465	0.0180	Au-ICP21	VO20089356
188.00	189.00		A0104466	0.0050	Au-ICP21	VO20089356
189.00	190.00		A0104467	0.0270	Au-ICP21	VO20089356
190.00	191.00		A0104468	0.0310	Au-ICP21	VO20089356
191.00	192.00		A0104469	0.0230	Au-ICP21	VO20089356
192.00	193.00		A0104470	0.0190	Au-ICP21	VO20089356
193.00	194.00		A0104471	0.0210	Au-ICP21	VO20089356
194.00	195.00		A0104472	0.0350	Au-ICP21	VO20089356
195.00	196.00		A0104474	0.0350	Au-ICP21	VO20089356
196.00	197.00		A0104475	0.0290	Au-ICP21	VO20089356
197.00	198.00		A0104476	0.0160	Au-ICP21	VO20089356
198.00	198.50		A0104477	0.0130	Au-ICP21	VO20089356

30CA. Minor dissolution cavities.

189.00 198.50 FA 25

Fracturé(e) 25°

Strong fracturing with carbonate infilling. One distinct orientation is at 20-35CA, another - at 0-5CA. Minor dissolution cavities along some fractures.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
198.50	**200.00**	I2D	198.50	199.25		A0104478	0.0030	Au-ICP21	VO20089356
		Syénite	199.25	200.00		A0104479	0.0060	Au-ICP21	VO20089356
		Syenite, strongly carbonatized. Pale grey-pink-beige with a mottled appearance, fine to medium-grained with a sugary texture, strongly pervasively carbonatized, probably overprinted by carbonatite-related alteration (slightly elevated REEs (Ce, La up to 400 ppm) and PO4 (2%)). Some parts contain tiny black prismatic grains disseminated in the matrix (titanite? Px?). Non-magnetic. Structure: weakly to moderately fractured, locally crackle brecciation. Mineralization: traces of fine Py. The lower contact is distinct, irregular, wavy, at ~10CA.							

198.50 200.00 CB; FL

Carbonatisation; Fluoritisation

Strong pervasive carbonatization, minor fluorite in fractures.

198.50 200.00 PYtr

Pyrite tr

Traces of fine Py.

198.50 200.00 FA

Fracturé(e)

Weakly to moderately fractured, locally crackle brecciation.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

200.00 206.85 I2D; I4Q; BH

Syénite 10°; Carbonatite; Brèche hydrothermale

Syenite, strongly deformed (brittle-ductile) and overprinted by carbonatite-related alteration.
The interval has a mottled, heterogeneous appearance, patchy grey, beige, orange, pink-red, brown-beige, patchy altered (Carb, Hem, Alb, Sil). Torn syenite fragments are irregular, cm to several cm in size, orange-pink to pale pink, sometimes with distinct white Plg grains. Locally minor fluorite in fractures; minor disseminated black grains (titanite? Px?). Non-magnetic.

Structure: strongly brecciated, microbrecciated and cemented by carbonate, in parts sheared at 15 to 35CA (mainly 25-35CA).
XRF shows elevated REEs and PO4 in grey and beige carbonate-altered patches, bands. Locally, there are brown-beige, fine-grained masses which are highly enriched in REEs (up to 0.55%), PO4 (up to 28%), Ti (up to 6%) and Zr (800 ppm).

Mineralization: irregularly distributed fine Py grains and fine-grained aggregates with concentrations ranging from traces to 3-5%.

The lower contact is approximate.

200.00 206.85 CB; SI; AB; FK; FL

Carbonatisation; Silicification; Albitisation; Altération en feldspath potassi

Strong patchy, interstitial and fracture-filling carbonatization related to carbonatites. Brown-beige irregular, fine-grained masses enrished in REEs. Moderate to atrong patchy silicification, albitization and K/Hem alteration. Fine black grains disseminated in the matrix (Px?), Minor fluorite in fractures.

200.00 206.85 PY02

Pyrite 2%

Irregularly distributed fine Py grains and fine-grained aggregates with concentrations ranging from traces to 3-5%.

200.00 206.85 FA 35

Fracturé(e) 35°

Strong brittle-ductile deformation. The interval is brecciated, microbrecciated and cemented by carbonate, in parts sheared at 15 to 35CA, locally 55CA. Fractures are generally oriented at the same angles (25-35CA). Occasional flat, irregular fractures filled by beige carbonate.

From	To	SampleID	Au (ppm)	Method	Certificate
200.00	201.00	A0104480	0.0940	Au-ICP21	VO20089356
201.00	202.00	A0104481	0.0220	Au-ICP21	VO20089356
202.00	203.00	A0104482	0.0180	Au-ICP21	VO20089356
203.00	204.00	A0104483	0.0170	Au-ICP21	VO20089356
204.00	205.00	A0104484	0.0090	Au-ICP21	VO20089356
205.00	206.00	A0104485	0.0560	Au-ICP21	VO20089356
206.00	207.00	A0104486	0.0160	Au-ICP21	VO20089356

206.85 219.40 I2D (V3B)

Syénite avec 5 à 25% de basalte

Syenite with fragments of basalt.
Medium red, Hem/K-altered, fine to medium-grained, in parts faintly porphyritic. Non-magnetic, hard to scratch. Moderate to strong patchy and fracture-filling carbonatization. Locally weak patchy bleaching, possibly albitization. Fine specular hematite in some fractures.
There are frequent fragments of basalt, a few cm to a few dm in length, with rather distinct contacts. They are beige-grey to dark grey and greenish grey, fine-grained, patchy carbonatized, hematite-altered, patchy K-altered, non-magnetic. XRF shows the presence of Mg (2%) and traces Ni (100-130 ppm).

Structure: The interval is strongly fractured, microbrecciated and cemented by carbonate.
There are two distinct groups of fractures:
1) older fractures, sub-mm to 1-2 mm wide, filled by creamy carbonate and generally oriented at 35-40CA.
2) flat fractures, 1-3 mm wide, filled by white calcite and oriented at 0-10CA, crosscutting older fractures.
Dissolution cavities along flat fractures, less commonly along other fractures.

Mineralization: traces fine Py, locally 0.5-2% disseminated fine grains and fine-grained aggregates in carbonate-altered patches. At 219.15-219.2 m - 1-3% sphalerite, galena, traces Cpy and Py with elevated trace Cd, Cr, Th, W.

The lower contact is approximate.

206.85 219.40 HM; FK; CB; AB; SI

Hématisation; Altération en feldspath potassique; Carbonatisation; Albitis

Syenite: Moderate to strong patchy and fracture-filling carbonatization. Moderate to strong pervasive to patchy red Hem/K alteration, locally weak patchy bleaching, possibly albitization. Specular hematite in some fractures.
Basalt fragments: patchy to pervasive carbonatization, specular hematite, K-alteration; locally greenish carbonate.
The upper portion (207-210 m) is patchy bleached, silicified, carbonatized.

206.85 219.15 PY00.5

Pyrite 0.5%

Traces fine Py, locally 0.5-2% disseminated fine grains and fine-grained aggregates.

207.00	208.00	A0104487	0.0090	Au-ICP21	VO20089356
208.00	209.00	A0104489	0.0160	Au-ICP21	VO20089356
209.00	210.00	A0104490	0.0750	Au-ICP21	VO20089356
210.00	211.00	A0104491	0.0280	Au-ICP21	VO20089356
211.00	212.00	A0104492	0.0120	Au-ICP21	VO20089356
212.00	213.00	A0104493	0.0090	Au-ICP21	VO20089356
213.00	214.00	A0104494	**0.1740**	Au-ICP21	VO20089356
214.00	215.00	A0104495	0.0200	Au-ICP21	VO20089356
215.00	216.00	A0104496	0.0350	Au-ICP21	VO20089356
216.00	217.00	A0104497	0.0080	Au-ICP21	VO20089356
217.00	218.00	A0104498	0.0390	Au-ICP21	VO20089356
218.00	219.00	A0104499	0.0080	Au-ICP21	VO20089356
219.00	219.50	A0104500	**0.1860**	Au-ICP21	VO20089356

219.15 219.40 SP; GL; CP; PY

Sphalérite; Galéne; Chalcopyrite; Pyrite

1-3% Sph, galena, traces Cpy, Py in cracks and late, flat calcite veinlets.

206.85 219.40 FA

Fracturé(e)

The interval is strongly fractured, in parts microbrecciated and cemented by carbonate.
There are two distinct groups of fractures:
1) older fractures, sub-mm to 1-2 mm wide, filled by creamy carbonate and generally oriented at 35-40CA.
2) flat fractures, 1-3 mm wide, filled by white calcite and oriented at 0-10CA, crosscutting older fractures..
Dissolution cavities along flat fractures, less commonly along other fractures.

From	To	Description
219.40	**223.20**	V3B (I2D) **Basalte avec 5 à 25% de syénite** Basalt with 10-25% syenite injections. patchy fenitized. The rock is medium grey to beige-grey with numerous reddish syenite injections. The matrix is mostly fine-grained, locally medium-grained with reddish anhedral masses of secondary K-fsp; pervasively carbonatized (weak reaction to HCl), with fine specular hematite alteration. Syenite injections are mm to 2-4 cm wide, medium red, with distinct irregular contacts, medium-grained to aphanitic. Magnetism: non-magnetic. Structure: moderate fracturing at 30-50CA with carbonate, K-spr infilling, various orientations. A late, flat fracture runs along the core axis at 0-10CA, 1-3 mm wide, mainly filled by white calcite. It has multiple dissolution cavities with calcite crystal and it crosscuts other fractures. Some syenite injections and carbonate veinlets are crosscut by late fractures with 1-2 cm offsets. Mineralization: mostly traces of fine pyrite; 1-2% anhedral Py grains in some syenite injections. The lower contact is distinct, at 45CA.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
219.50	220.50		A0104501	0.0270	Au-ICP21	VO20089356
220.50	221.50		A0104502	0.0090	Au-ICP21	VO20089356
221.50	222.50		A0104503	0.0190	Au-ICP21	VO20089356
222.50	223.20		A0104505	**0.3060**	Au-ICP21	VO20089356

219.40 223.20 CB; FK; HM; CC

Carbonatisation; Altération en feldspath potassique; Hématisation; Calciti

Basalt: strong pervasive carbonatization, fine specular hematite in the

matrix, patchy red K/Hem-alteration.
Syenite: strong pervasive red K/Hem alteration, carbonate in fractures, interstices, specular hematite in some fractures. Leucoxene?

Late calcite-filled fractures.

219.40 223.20 PY00.5

Pyrite 0.5%

Mostly traces of fine pyrite; 1-2% anhedral Py grains in some syenite injections.

219.40 223.20 FA

Fracturé(e)

Moderate fracturing at 30-50CA with carbonate, K-spr infilling, various orientations.
A late, flat fracture runs along the core axis at 0-10CA, 1-3 mm wide, mainly filled by white calcite, It has multiple dissolution cavities with crystal of calcite and it crosscuts other fractures. Some syenite injections and carbonate veinlets are crosscut with 1-2 cm offsets.

From	To	Description
223.20	**242.40**	I2D **Syénite 45°** Syenite with <5% digested fragments of basalt. Mottled, variously colored - red, mauve, grey-pink, beige to greenish beige - due to patchy alteration: red and specular Hem, silicification, K-spar alteration, moderate fracture-filling and patchy carbonatization, minor albitization. Fine to medium-grained. Locally minor fluorite in fractures. Magntism: non-magnetic. Structure: the interval is moderately to strongly fractured with Carb, Cal, minor Fluor and minor Qz infilling. Fractures are variably oriented, most commonly at 35-50CA. There are frequent microbrecciated and sheared zones in syenite, cm to 1-2 dm wide, which are patchy silicified and cemented by creamy to grey carbonate (dolomite to Fe-carbonate) with variable amounts of specular hematite, apatite and some other accessory minerals. Contacts of these zones are sometimes sharp and sometimes fuzzy, often oriented similarly as fractures (35-50CA). Occasional late tension veinlets, Qz-Carb, 0.2-2 cm wide, crosscutting other fractures. Mineralization: irregularly distributed concentrations of fine Py, traces in the matrix, 1-3% fine grains and aggregates in some carbonate- and silica-altered zones, in narrow shears and fractures.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
223.20	224.00		A0104506	0.0510	Au-ICP21	VO20089356
224.00	225.00		A0104507	0.0720	Au-ICP21	VO20089356
225.00	226.00		A0104508	**0.1460**	Au-ICP21	VO20089356
226.00	227.00		A0104509	0.0330	Au-ICP21	VO20089356
227.00	228.00		A0104510	0.0500	Au-ICP21	VO20089356
228.00	229.00		A0104511	**0.5680**	Au-ICP21	VO20089356
229.00	230.00		A0104512	0.0110	Au-ICP21	VO20089356
230.00	231.00		A0104513	0.0130	Au-ICP21	VO20089356
231.00	232.00		A0104514	0.0080	Au-ICP21	VO20089356
232.00	233.00		A0104515	0.0310	Au-ICP21	VO20089356
233.00	234.00		A0104516	0.0090	Au-ICP21	VO20089356
234.00	235.00		A0104517	0.0120	Au-ICP21	VO20089356
235.00	236.00		A0104518	0.0200	Au-ICP21	VO20089356
236.00	237.00		A0104519	**0.1230**	Au-ICP21	VO20089356
237.00	238.00		A0104520	0.0160	Au-ICP21	VO20089356
238.00	239.00		A0104522	0.0880	Au-ICP21	VO20089356
239.00	240.00		A0104523	**2.6300**	Au-ICP21	VO20089356
240.00	241.00		A0104524	0.0120	Au-ICP21	VO20089356
241.00	241.70		A0104525	0.0220	Au-ICP21	VO20089356
241.70	242.40		A0104526	**0.3550**	Au-ICP21	VO20089356

At 223.2-226.6 m - a flat fracture filled by calcite (continuing from the previous unit), at 5-10CA, 1-3 mm wide, with dissolution cavities. It is mostly non-mineralized but locally contains Sph, Gal, Cpy, and Py.
At 224.5 m - a 2 cm wide Qz-Carb tension vein at 50CA mineralized by galena and minor sphalerite.

229-234 m - fractures and narrow carbonatized and silicified, microbrecciated zones at 25-35CA, mineralized by 1-2% fine Py. Calcite, fluorite and an orange mineral or an aggregate of minerals occur in fractures. Grey carbonate cement has elevated PO4 (apatite?) and slightly elevated REEs.
XRF of an orange mineral shows Ca (10%), Sr (5%), Ba (2%), SO4 (7%), PO4 (3%) and elevated trace elements - Cr (0.25%), Zr (870 ppm), Th (675 ppm), Nb (140 ppm), Ni (107 ppm), Mo (43 ppm) and Au (53 ppm).

238.7-240 m - red, medium-grained, fractured and microbrecciated syenite with irregular cementing masses dominated by grey carbonate and specular hematite. XRF shows high enrichment in PO4 (10 to 50%) and REEs (Ce, La, Nd up to 0.25%), suggesting the presence of REE-bearing apatite or monazite. The inerval is mineralized by 1-3% Py small subhedral to anhedral grains and aggregates.

241.0-241.3 m - a brecciated, beige, silicified interval cemented by creamy carbonate; with numerous dissolution cavities. Minor fluorite in cracks and cavities. MIneralized by 0.5-1% very fine Py.
241.3-242.4 m - 0.5 to 5% Py small, subhedral to anhedral grains and aggregates in brecciated, Hem/K-Carb-altered syenite.

A distinct lower contact at 75CA.

223.20 238.70 CB; SI; FK; AB; FL

Carbonatisation; Silicification; Altération en feldspath potassique; Albitisa

Moderate to strong carbonatization - patchy, fracture-filling, cementing microbrecciated zones. Variable patchy red-pink K/Hem alteration. Moderate to locally strong patchy silicification. Weak, localized, patchy albitization. Minor fluorite and calcite in late fractures.
Locally patchy green carbonate and possibly minor sericite - could be altered basalt fragments.
Ffine-grained masses cementing microbrecciated zones are composed of grey carbonate +/-specular hematite and also contain variable amounts of REE-bearing minerals as apatite, possibly monazite, zircon and other accessories.

238.70 240.20 FK; CB; HM; SI

Altération en feldspath potassique; Carbonatisation; Hématisation; Silicifi

Moderate to strong patchy to pervasive K and Hem alteration, silicification. Patchy grey carbonate masses with specular hematite and REE-bearing apatite cement microbrecciated syenite.

240.20 241.30 SI; CB

Silicification; Carbonatisation

Strong patchy to pervasive silicification in bleached, brecciated syenite. Moderate to strong fracture-filling carbonate.

241.30 242.40 CB; HM; FK; FL; AB

Carbonatisation; Hématisation; Altération en feldspath potassique; Fluori

Strong patchy to pervasive carbonatization, silicification, Hem/K alteration, apatite, minor fluorite in cracks.

223.20 224.50 PY00.5; SPtr; GLtr; CPtr

Pyrite 0.5%; Sphalérite tr; Galéne tr; Chalcopyrite tr

Traces Py, locally 0.5-1% Py.
223.2-224.5 m - localized spots in late veins (Cal, Qz-Carb) with Sph, Galena, Cpy.

224.50 238.70 PY00.75

Pyrite 0.75%

Irregularly distributed concentrations of fine Py - traces in the matrix, 1-3% fine grains and aggregates in some carbonate- and silica-altered zones, in narrow shears and fractures.

238.70 240.00 PY02

Pyrite 2%

1-3% Py small subhedral to anhedral grains and aggregates associated with grey Carb +/- specHem +/-apatite patches in brecciated syenite.

240.00 241.30 PY00.5

Pyrite 0.5%

Traces to 0.5-1% fine Py in fractures, disseminated.

241.30 242.40 PY02.5; CPtr

Pyrite 2.5%; Chalcopyrite tr

0.5 to 5% Py small, subhedral to anhedral grains and aggregates in brecciated, Hem/K-Carb-altered syenite.

223.20 226.60 FA

Fracturé(e)

Moderate to strong fracturing with carbonate infilling, commonly at 35 to 55CA.
A flat fracture filled by calcite (continuing from the previous unit) runs along the core axis at 5-10CA, 1-3 mm wide, with dissolution cavities. It

crosscuts older fractures and syenite injections with mm to 1-2 cm offsets.

226.60	229.00	FA	45

Fracturé(e) 45°

The interval is moderately to strongly fractured with Carb, Cal, minor Fluor and Qz infilling. Fractures and narrow shear zones are variably oriented, most commonly at 35-50CA.

229.00	234.00	FA; CS; BX	30

Fracturé(e) 30°; Cisaillé(e); Bréchique

Frequent fractures and microbrecciated shear zones, carbonatized and variably silicified, mineralized by taces to 1-2% fine Py. Microbrecciated zones are commonly oriented at 25-35CA. Calcite and fluorite occur in fractures.

234.00	242.40	FA; CS; BX	45

Fracturé(e) 45°; Cisaillé(e); Bréchique

Moderate to strong fracturing, microbrecciation; fractures and narrow shears are commonly oriented at 35-55CA.

From	To	Description
242.40	**276.00**	V3B; BX

Basalte 75°; Brèche

Basalt with abundant breccia.
The interval has a mottled, heterogeneous appearance due to patchy alteration and the presence of brecciated fragments - flow breccia (?), pyroclastic breccia (?), explosive breccia? The rock is dark grey and mauve-grey in hematite-altered parts (specular and red Hem), reddish in K/Hem-altered parts (patchy fenitization and syenite injections), pink-beige to pale grey-beige in silicified sections, greenish grey to olive breccia. The matrix is fine-grained to aphanitic in silicifed parts.
Breccia fragments are very fine-grained, subround to subangular, with rather distinct margins, typically 0.5-2 cm in size but could be up to 1-2 dm. Localized replacement textures also contribute to the brecciated appearance of the unit.
Magnetism: patchy magnetic due to fine disseminated Mgt grains.

Structure: the main rock and fragments are cut by numerous white carbonate/calcite mm fractures/veinlets mainly oriented at: 1) 35-60CA (S3 tension gashes) and 2) 0-15CA (S2 fractures). Locally microbrecciation with carbonate cement - phreatic breccia (?).

Mineralization: irregularly distributed concentrations of fine Py ranging from traces to 1-3%. Traces Cpy in mauve, Hem-altered parts.
249.25-249.45 m - 3-5% fine Py in silicified, microbrecciated interval with carbonate cement.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
242.40	243.00		A0104527	0.0100	Au-ICP21	VO20089356
243.00	244.00		A0104528	0.0060	Au-ICP21	VO20089356
244.00	245.00		A0104529	0.0170	Au-ICP21	VO20089356
245.00	246.00		A0104530	0.0050	Au-ICP21	VO20089356
246.00	247.00		A0104531	0.0060	Au-ICP21	VO20089356
247.00	248.00		A0104532	0.0110	Au-ICP21	VO20089356
248.00	249.00		A0104533	0.0060	Au-ICP21	VO20089356
249.00	250.00		A0104534	0.0240	Au-ICP21	VO20094559
250.00	251.00		A0104535	0.0460	Au-ICP21	VO20094559
251.00	252.00		A0104537	0.0120	Au-ICP21	VO20094559
252.00	253.00		A0104538	0.0160	Au-ICP21	VO20094559
253.00	254.00		A0104539	0.0160	Au-ICP21	VO20094559
254.00	255.00		A0104540	0.0180	Au-ICP21	VO20094559
255.00	256.00		A0104541	0.0310	Au-ICP21	VO20094559
256.00	257.00		A0104542	0.0650	Au-ICP21	VO20094559
257.00	258.00		A0104543	0.0080	Au-ICP21	VO20094559
258.00	259.00		A0104544	0.0150	Au-ICP21	VO20094559
259.00	260.00		A0104545	0.0110	Au-ICP21	VO20094559
260.00	261.00		A0104546	0.0100	Au-ICP21	VO20094559
261.00	262.00		A0104547	0.0140	Au-ICP21	VO20094559
262.00	263.00		A0104548	0.0140	Au-ICP21	VO20094559

From	To	Description
		249.55-250.25 m - 1-3% Py fine grains and aggregates in microbrecciated basalt with red syenite injections or fenitized patches. The lower contact is somewhat distinct, irregular, at 15-35CA.
242.40	276.00	CB; HM; FK; SI; CL **Carbonatisation; Hématisation; Altération en feldspath potassique; Silicifi** Moderate to strong, patchy to pervasive silicification, hematitization (red and specular), K-fenitization. Moderate to strong patchy and fracture-filling carbonatization (carbonate, calcite). Fine disseminated magnetite. Remnant chloritization in brecciated fragments.
242.40	249.25	PY00.25 **Pyrite 0.25%** Traces to 0.5% fine Py.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
263.00	264.00		A0104549	0.0230	Au-ICP21	VO20094559
264.00	265.00		A0104550	0.0150	Au-ICP21	VO20094559
265.00	266.00		A0104551	0.0080	Au-ICP21	VO20094559
266.00	267.00		A0104553	0.0330	Au-ICP21	VO20094559
267.00	268.00		A0104554	0.0140	Au-ICP21	VO20094559
268.00	269.00		A0104555	0.0100	Au-ICP21	VO20094559
269.00	270.00		A0104556	**0.1660**	Au-ICP21	VO20094559
270.00	271.00		A0104557	**0.2290**	Au-ICP21	VO20094559
271.00	272.00		A0104558	0.0040	Au-ICP21	VO20094559
272.00	273.00		A0104559	0.0080	Au-ICP21	VO20094559
273.00	274.00		A0104560	0.0020	Au-ICP21	VO20094559
274.00	275.00		A0104561	0.0060	Au-ICP21	VO20094559
275.00	276.00		A0104562	0.0070	Au-ICP21	VO20094559

From	To	Description
276.00	**287.85**	BX; V3B (I2D) **Brèche; Basalte avec 5 à 25% de syénite** A highly heterogeneous interval with small brecciated fragments, probably variably altered, fenitized basalt with ~25% Syenite injections. Reworked sediments?? Explosion breccia?? There are: 1) red to beige-red, fine-grained, almost aphanitic intervals with small, mm-cm, breccia-looking pieces - highly fenitized basalt? 2) dark red to mauve, fine to medium-grained intervals with red and specular Hem alteration in the matrix - basalt? syenite?; 3) medium red to greyish red, medium-grained intervals with sometimes recognizable grains of white Fsp - probably syenite injections or torn fragments of injections. They have distinct to fuzzy contacts and are several dm in length. Some intervals look porphyritic due to the presence of anhedral to subhedral (hexagonal) beige phenocrysts (leucoxene-altered garnet??). Moderate to strong patchy to pervasive red and specular Hem alteration, K-alteration, silicification, carbonatization (patchy, fracture-filling, in interstices). Non-magnetic Structure: highly fractured, brecciated rock with a stockwork of creamy white, carbonate-filled, mm fractures. Occasional late veinlets composed of white carbonate/calcite and lesser

From	To	Len	SampleID	Au (ppm)	Method	Certificate
276.00	277.00		A0104563	0.0030	Au-ICP21	VO20094559
277.00	278.00		A0104564	0.0910	Au-ICP21	VO20094559
278.00	279.00		A0104565	**0.1550**	Au-ICP21	VO20094559
279.00	280.00		A0104566	**0.3590**	Au-ICP21	VO20094559
280.00	281.00		A0104567	0.0440	Au-ICP21	VO20094559
281.00	282.00		A0104568	0.0830	Au-ICP21	VO20094559
282.00	283.00		A0104570	**0.1120**	Au-ICP21	VO20094559
283.00	284.00		A0104571	0.0130	Au-ICP21	VO20094559
284.00	284.70		A0104572	0.0120	Au-ICP21	VO20094559
284.70	285.30		A0104573	**0.2140**	Au-ICP21	VO20094559
285.30	286.00		A0104574	0.0610	Au-ICP21	VO20094559
286.00	287.00		A0104575	0.0330	Au-ICP21	VO20094559
287.00	288.00		A0104576	0.0240	Au-ICP21	VO20094559

specular hematite, typically oriented at 50CA.
At 286-286.85 m - a sheared interval with foliation developed at 25-40CA.

Mineralization: traces to 0.5-1% fine Py disseminated, in fractures, carbonate patches. Traces Cpy were noted in mauve, specular Hem-altered parts.
283.15 m - fine-grained masses of Cpy and flaky specular Hem in a late calcite veinlet at 50CA.
284.7-285.3 m – 5-10% fine Py in a microbrecciated, silicified zone cemented by greyish carbonate.
285.8-287.3 m – 1-3% Py, specular Hem.

The lower contact is marked at the end of a syenite section which could be a dyke or a broken and re-deposited piece of syenite.

286.60 287.85 I2D

Syénite

A section composed of medium-grained, weakly porphyritic syenite with distinct white Plg grains in red, finer-grained to almost aphanitic groundmass. Red and minor specular Hem alteration; weak to moderate fracture-filling and interstitial carbonatization. Non-magnetic.
The upper contact is rather distinct by sharp changes in colour (beige -> red), sheared at 27-35CA.
The lower contact is somewhat distinct by changes in texture, approximately at 70CA. It is crosscut by Qz-Carb en-echelon veinlets at 20-30CA.

This interval could be a syenite dyke or possibly a large broken chunk of syenite.

276.00 287.85 FK; HM; SI; CB

Altération en feldspath potassique; Hématisation; Silicification; Carbonati

Moderate to strong patchy to pervasive red and specular Hem alteration, K-alteration, silicification, carbonatization (patchy, fracture-filling, in interstices).

276.00 281.90 PY00.25

Pyrite 0.25%

Traces to 0.5% very fine Py.

281.90 283.00 PY01.5

Pyrite 1.5%

0.5 to 3% Py fine disseminated grains, fine to medium-grained masses in fractured and brecciated syenite, in carbonate patches.

283.00 284.10 PYtr; CP; HS

Pyrite tr; Chalcopyrite; Spécularite

Traces to 0.5% Py. At 283.15 m - fine-grained masses of Cpy and flaky specular Hem in a late calcite veinlet at 50CA.

284.70 285.30 PY07

Pyrite 7%

5-10% fine Py in a microbrecciated, silicified zone cemented by greyish carbonate.

285.30 285.70 PYtr

Pyrite tr

Traces of fine Py. Fine black grains disseminated in the matrix - pseudomorphs Hem after Mgt.

285.70 286.60 PY01.5

Pyrite 1.5%

0.5-2% very fine Py disseminated grains and fine-grained aggregates in fractures in sheared, silicified and carbonatized interval (basalt?).

286.60 287.85 PY02

Pyrite 2%

0.5-3% Py fine to med euhedral to anhedral grains disseminated in syenite, fine-grained aggregates in interstices, cracks. Specular hematite in a late Cal vein at

276.00 286.00 FA; BX

Fracturé(e); Bréchique

Highly fractured, brecciated rock with a stockwork of creamy white, carbonate-filled, mm fractures.
At 283-283.2 m - S2 fractures at 30-40CA and S3 fractures (terminated on S2) at 27-40CA (opposite direction to S2); both fracture types are filled by white carbonate.

Occasional late veinlets composed of white carbonate/calcite and lesser specular hematite, typically oriented at 50CA.

286.00 286.85 CS; FA; BX 35

Cisaillé(e) 35°; Fracturé(e); Bréchique

A sheared and fractured interval with foliation developed at 25 to 50CA (mainly 35-40CA). Microbrecciated angular mm fragments (crackle breccia) in red, rather syenitic parts.

286.85 287.85 FA 50

Fracturé(e) 50°

Moderate fracturing, different generations of fractures. Older irregular, carbonate-filled fractures are crosscut by several en-echelon veinlets composed of white carbonate/calcite and lesser specular hematite. These younger veinlets are oriented at 30-50CA.

From	To	Description
287.85	**309.05**	BX; I2D; V3B

Brèche; Syénite; Basalte

A beige-grey-colored interval which contains numerous heterolithic clasts of syenite, basalt, chert(?), quartz in fine to medium-grained matrix. It could be Arkosic sandstone to conglomerate derived from syenite and silicified, bleached basalt. Could be explosive breccia?

Brecciated fragments are subangular to subround and oval, non-sorted, ranging from mm to up to 5 cm in size, variable in colour (pale pinkish grey, beige, pale olive-grey, white, dark grey, rarely black), with aphanitic, fine-grained and weakly porphyritic inner textures. Some basalt-looking fragments contain fine beige specks of leucoxene. Porphyritic fragments contain olive-grey, sericite-altered prismatic grains (Fsp).
The matrix is pale beige-grey, quite siliceous and carbonatized (dolomite), compositionally similar to the clasts, non-magnetic. Locally mauve-red Hem alteration.

Structure: the rock is mostly non-foliated, moderately fractured with white carbonate infilling. Locally microbrecciation. Fractures are sub-mm to a few mm wide, variably oriented. One distinct orientation is at 35CA. MInor fibrous sericite in fractures.
298-300.5 m - several flat brittle fractures, 1-3 mm wide, filled by creamy white carbonate.
298-302.5 m - several white Ca-carbonatite cm veinlets at 60-65CA, non-deformed.

Mineralization: traces to 2% Py fine grains, disseminated, in some clasts and in some fractures.

The lower contact is distinct, at 25CA.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
288.00	289.00		A0104577	0.0080	Au-ICP21	VO20094559
289.00	290.00		A0104578	0.0120	Au-ICP21	VO20094559
290.00	291.00		A0104579	0.0220	Au-ICP21	VO20094559
291.00	292.00		A0104580	0.0130	Au-ICP21	VO20094559
292.00	293.00		A0104581	0.0140	Au-ICP21	VO20094559
293.00	294.00		A0104582	0.0080	Au-ICP21	VO20094559
294.00	295.00		A0104583	0.0070	Au-ICP21	VO20094559
295.00	296.00		A0104585	0.0070	Au-ICP21	VO20094559
296.00	297.00		A0104586	0.0100	Au-ICP21	VO20094559
297.00	298.00		A0104587	0.0080	Au-ICP21	VO20094559
298.00	299.00		A0104588	0.0150	Au-ICP21	VO20094559
299.00	300.00		A0104589	0.0080	Au-ICP21	VO20094559
300.00	301.00		A0104590	0.0080	Au-ICP21	VO20094559
301.00	301.70		A0104591	0.0080	Au-ICP21	VO20094559
301.70	302.50		A0104592	0.0240	Au-ICP21	VO20094559
302.50	303.25		A0104593	0.0070	Au-ICP21	VO20094559
303.25	304.00		A0104594	0.0410	Au-ICP21	VO20094559
304.00	305.00		A0104595	0.0040	Au-ICP21	VO20094559
305.00	306.00		A0104596	0.0040	Au-ICP21	VO20094559
306.00	307.00		A0104597	0.0050	Au-ICP21	VO20094559
307.00	308.00		A0104598	0.0070	Au-ICP21	VO20094559
308.00	309.00		A0104599	0.0180	Au-ICP21	VO20094559

287.85 309.05 CB; SR; SI; HM

Carbonatisation; Séricitisation; Silicification; Hématisation

Moderate pervasive carbonatization (dolomite), white and creamy

carbonate in fractures. Locally patchy grey silicification. Locally red and specular Hem alteration in the matrix. Fine leucoxene in some basalt clasts. Minor fibrous and patchy sericite. Sericite also alters Fsp phenocrysts in some syenite clasts.

287.85 301.70 PY01

Pyrite 1%

Traces to 2% Py fine grains, disseminated, in some clasts and in some fractures.

301.70 302.50 PY02

Pyrite 2%

1-3% Py fine to med-size disseminated grains in grey silicified patches.

302.50 309.05 PY01

Pyrite 1%

Traces to 2% fine grains, disseminated, in some clasts and in some fractures.

287.85 309.05 BX; FA

Bréchique; Fracturé(e)

Numerous mm-cm brecciated clasts of syenite and basalt.
The rock is mostly non-foliated, moderately fractured with white carbonate infilling. Locally microbrecciation. Fractures are sub-mm to a few mm wide, variably oriented. One distinct orientation is at 35CA.
298-300.5 m - several flat brittle fractures, 1-3 mm wide, filled by creamy white carbonate.
298-302.5 m - several white Ca-carbonatite veinlets at 60-65CA.

From	To	Description
309.05	**311.25**	I2D; BX **Syénite 25°; Brèche** Syenite, dark mauve to red, medium-grained with distinct white Plg grains, contains finer-grained mauve and greenish grey cm-dm fragments – possibly altered basalt. In fact, this syenite might also be a fragmented block, not a dyke. Pervasive Hem/K alteration, interstitial and fracture-filling carbonate/calcite. The interval is quite hard to scratch, weakly to moderately magnetic. Structure: moderate fracturing with Carb/Cal infilling. Cut by occasional white Carb-Qz mm-cm tension veinlets mainly oriented at 50-65CA. Mineralization: 1-5% Py fine to med, disseminated, anhedral to subhedral grains. Traces Cpy in some Carb veinlets. The lower contact is distinct by changes in colour and texture but not sharp.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
309.00	310.00		A0104601	**0.1650**	Au-ICP21	VO20094562
310.00	311.00		A0104602	0.0750	Au-ICP21	VO20094562

309.05 311.25 HM; FK; CB; LX

Hématisation; Altération en feldspath potassique; Carbonatisation; Leuco

Moderate pervasive red-mauve hematitization; moderate white to greyish carbonate/calcite in fractures and interstices. Pink-grey to beige disseminated leucoxene.

309.05 311.25 PY02.5

Pyrite 2.5%

1-5% Py fine to med, disseminated, anhedral to subhedral grains. Traces Cpy in some Carb-Qz veinlets.

309.05 311.25 FA

Fracturé(e)

Moderate fracturing with Carb/Cal infilling. Cut by occasional white Carb-Qz mm-cm tension veinlets mainly oriented at 50-65CA.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
311.25	**313.45**	BX; I2D; V3B	311.00	312.00		A0104603	0.0120	Au-ICP21	VO20094562
		Brèche; Syénite; Basalte	312.00	313.00		A0104604	0.0160	Au-ICP21	VO20094562
		A beige-grey-colored interval which contains numerous heterolithic clasts of syenite, lesser bleached basalt, chert (?), quartz in fine to medium-grained, carbonatized (dolomitized) matrix. Probably Arkose sandstone to conglomerate. The clasts are subangular to subround, mm to a few cm in size, non-sorted, pale grey, beige, pink, dark grey and mauve. Non-magnetic. Structure: weak to moderate irregular fracturing with white carbonate infilling. Mineralization: traces to 0.5-1% fine disseminated Py. The lower contact is distinct by changes in colour, not sharp, at ~60CA. Some tension veinlets which occur in the next unit seem to be truncated on the contact.							

311.25 313.45 CB; SR

Carbonatisation; Séricitisation

Moderate to strong pervasive carbonatization (dolomitization), white to greyish carbonate in fractures. MInor fibrous sericite in some fractures. Colorless silica in fractures.

311.25 313.45 PY00.5

Pyrite 0.5%

Traces to 0.5-1% fine disseminated Py.

311.25 313.45 BX; FA

Bréchique; Fracturé(e)

Numerous mm-cm brecciated clasts of syenite, basalt, quartz.
Weak to moderate irregular fracturing with carbonate and minor colorless silica infilling.

From	To	Description
313.45	**318.95**	I2D V3B; BX **Syénite avec 25 à 50% de basalte 60°; Brèche** Alternating dark mauve and red intervals, some of which are fine-grained and resemble fenitized basalt while other intervals are clearly syenite. The textural and colour changes are sometimes distinct but in many cases are gradational or obliterated by fracturing and microbrecciation. Moderate to strong red Hem/K and grey specular Hem pervasive to patchy alteration. Strong patchy to pervasive and fracture-filling carbonatization in dark mauve parts and slightly weaker in red parts. Reddish parts (syenite?) are weakly magnetic to non-magnetic, whereas the darker, mauve-grey intervals (basalt?) are moderately to strongly magnetic. Locally patchy silicification. Minor pink and beige leucoxene. Occasional olive-grey subround cm fragments of basalt in syenite. At 317.9-318.4 m - an interval with small heterolithic brecciated fragments of syenite, basalt, quartz. It has rather distinct, irregular contacts with the surrounding syenite. Structure: strongly fractured, often microbrecciated and cemented by carbonate. Fractures are variably oriented at 15 to 70CA, sub-mm to 1-2 mm. One set of late tension mm-cm Qz-Carb veinlets is oriented at 50-60CA. At 318.4 m, there is a contact between sandstone(?) and medium-grained syenite. The Qz-Carb tension veinlets occur in syenite and visibly pinch out when propagate into sandstone. Mineralization: irregularly distributed concentrations of Py, traces in some intervals and up to 10% Py in others, especially in silicified and carbonatized zones. The lower contact is distinct by changes in colour, texture and composition; irregular, dented, at about 60CA.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
313.00	314.00		A0104605	0.0060	Au-ICP21	VO20094562
314.00	315.00		A0104606	**0.1290**	Au-ICP21	VO20094562
315.00	316.00		A0104607	0.0880	Au-ICP21	VO20094562
316.00	317.00		A0104609	**0.1940**	Au-ICP21	VO20094562
317.00	318.00		A0104610	0.0210	Au-ICP21	VO20094562
318.00	319.00		A0104611	0.0730	Au-ICP21	VO20094562

313.45 318.95 HM; FK; SI

Hématisation; Altération en feldspath potassique; Silicification

alteration. Strong patchy to pervasive and fracture-filling carbonatization in dark mauve parts and slightly weaker in red parts. Reddish parts (syenite?) are weakly magnetic to non-magnetic, whereas the darker, mauve-grey intervals (basalt?) are moderately to strongly magnetic. Locally patchy silicification. Minor leucoxene.

313.45 316.20 PY01.5

Pyrite 1.5%

Irregularly distributed concentrations of Py, traces to 3% Py fine anhedral to subhedral, disseminated grains, fine-grained aggregates in fractures, interstices.

316.20 316.60 PY07

Pyrite 7%

5-10% Py fine grains and aggregates in microbrecciated, silicified and carbonatized zone. XRF shows anomalous Zn (0.2-0.7%).

316.60 318.95 PY02

Pyrite 2%

0.5-5% Py fine, disseminated, subhedral to anhedral grains and fine-grained aggregates in fractures and interstices within syenite.

313.45 318.95 FA; BX

Fracturé(e); Bréchique

Moderate to strong fracturing, microbrecciation with carbonate cement. Fractures are variably oriented at 15 to 70CA, sub-mm to 1-2 mm. One set of late tension mm-cm Qz-Carb veinlets is oriented at 50-60CA.

From	To	Description
318.95	**327.00**	BX; I2D; V3B **Brèche; Syénite; Basalte** A beige-grey-colored interval which contains numerous heterolithic clasts of syenite, bleached basalt, quartz, chert (?) in fine to medium-grained, carbonatized (dolomitized) matrix. Arkose sandstone to conglomerate? Explosive breccia? The clasts are mm-cm, less commonly several cm in size, subangular to subround, beige, pale pink, white, rarely dark grey to black; with aphanitic, fine-grained and weakly porphyritic inner textures. Non-sorted, matrix-supported to clast-supported, non-magnetic. Weak sericitization - patchy and fibrous in fractures. Beige leucoxene in some basalt clasts. A few intervals, 2-3 dm long, are dark mauve-grey, fine to medium-grained, magnetic, pervasively hematitized and carbonatized, often have distinct contacts. Possibly fenitized basalt.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
319.00	320.00		A0104612	0.0460	Au-ICP21	VO20094562
320.00	321.00		A0104613	0.0250	Au-ICP21	VO20094562
321.00	322.00		A0104614	0.0060	Au-ICP21	VO20094562
322.00	323.00		A0104615	0.0090	Au-ICP21	VO20094562
323.00	324.00		A0104616	0.0050	Au-ICP21	VO20094562
324.00	325.00		A0104617	0.0060	Au-ICP21	VO20094562
325.00	326.00		A0104618	0.0050	Au-ICP21	VO20094562
326.00	327.00		A0104619	0.0060	Au-ICP21	VO20094562

Structure: non-foliated rock, moderately fractured; different generations of fractures at angles ranging from 0 to 65CA. Fractures are filled by white and grey carbonate and lesser colorless silica. Late tension veinlets.
At 325.7-326 m - white carbonate-filled fractures in a mauve interval: S2 fractures at 0-5CA and S3 tension gashes terminated on S2. Gashes are oriented at 35-55CA.
At 326.2-327 m - fractures and weak shearing at 35-40CA.

Mineralization: traces to 0.5-2% Py very fine to small disseminated grains, along some fractures.

EOH

318.95 327.00 CB; SR; HM

Carbonatisation; Séricitisation; Hématisation

Weak to moderate patchy and fracture-filling carbonatization (dolomite) in beige-grey sandstone parts. Stronger carbonatization (calcite/dolomite), Hem/K and magnetite in mauve basalt (?) parts.
Weak sericitization - patchy and fibrous in fractures. Beige leucoxene in some basalt clasts.

318.95 327.00 PY01

Pyrite 1%

Traces to 0.5-2% Py very fine to small disseminated grains, along some fractures.

318.95 327.00 BX; FA

Bréchique; Fracturé(e)

A non-foliated rock, moderately fractured; different generations of fractures at angles ranging from 0 to 65CA. Fractures are filled by white and grey carbonate and lesser colorless silica. Late tension veinlets.
At 325.7-326 m - white carbonate-filled fractures in a mauve interval: S2 fractures at 0-5CA and S3 tension gashes terminated on S2. Gashes are oriented at 35-55CA.
At 326.2-327 m - fractures and weak shearing at 35-40CA.

Downhole Survey

Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method
0.00	360.00	-55.00	Collar	51.00	1.06	-52.34	Champ Gyro	60.00	1.40	-52.45	Champ Gyro
75.00	185.45	-17.66	Champ Gyro	75.01	359.33	-54.18	Champ Gyro	105.00	176.52	-17.81	Champ Gyro
105.01	359.95	-54.16	Champ Gyro	135.00	359.21	-54.11	Champ Gyro	165.00	359.35	-53.92	Champ Gyro
195.00	359.96	-53.95	Champ Gyro	225.00	358.90	-53.67	Champ Gyro	255.00	0.68	-53.66	Champ Gyro
294.00	1.27	-53.33	Champ Gyro								

Drillhole Information

Easting: 705936.42
Northing: 5490927.40
Elevation: 286.91
Azimuth 359.10
Dip -57.50

Drilling Information

DrillCo: RJLL
DrillID: FSD002
DrillStart: 15-Mar-20
DrillEnd: 19-Mar-20
Length (m): 294.00

Logging Information

LogBy: M. Sokolov (OGQ #1491)
LogStart: 20-Apr-20
LogEnd: 25-Apr-20

Drillhole Summary

Intercepts >= 0.1 ppm

Hole_ID	From	To	Length	Au (ppm)
DO-20-281	104	203	99	1.001
DO-20-281	206	227	21	0.39
DO-20-281	231	271	40	0.809
DO-20-281	278	279	1	0.144
DO-20-281	289	290	1	0.136

M. Sokolov (OGQ #1491)
12-Jan-22

Lithology and Assay Results

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
0.00	**23.85**	M-T **Mort terrain** Overburden.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
23.85	**40.00**	V3B I2D; CS; I4Q **Basalte avec 25 à 50% de syénite; Cisaillé; Carbonatite** A very heterogeneous, strongly deformed interval composed of variable proportions of Basalt and Syenite (overall, approximately 60% V3B and 40% I2D) and injected by 0.5-1% carbonatite veins. The unit has a very mottled, patchy appearance, variable in colour. Basalt fragments and sections tend to be grey to black, greenish grey, beige-grey. Syenite and fenitized patches are of various shades of red and pink, beige. Basalt sections are several dm to several m in length; cm-dm basalt fragments occur within syenite. They are typically fine to medium-grained but the primary textures appear completely obliterated due to alteration (fenitization, carbonatization, hematitization) and recrystallization. Locally leucoxene specks and partially-altered grains of some Ti-bearing mineral. Some parts of altered basalt contain small, squarish, white crystals (carbonate, REE-carbonate?) and small prismatic greyish crystals (apatite?). Syenite fragments, injections and fenitized patches (secondary K-feldspar +/- albite) are irregular-shaped, with fuzzy or distinct contacts, ranging from a few mm to several dm in size. They are fine to medium-grained, often microbrecciated. Magnetism: mostly non-magnetic except weakly magnetic sections which contain specular hematite. Locally noted small, black, disseminated, pseudomorph grains of hematite after magnetite. Structure: brittle-ductile deformation, strong fracturing, brecciation, microbrecciation. Some basalt parts are sheared with weakly to moderately-developed foliation at 25 to 40CA (mainly 30-32CA). Syenite often appears	23.85	25.00		A0104620	0.0020	Au-ICP21	VO20094562
			25.00	26.00		A0104621	0.0020	Au-ICP21	VO20094562
			26.00	27.00		A0104622	0.0040	Au-ICP21	VO20094562
			27.00	28.00		A0104623	0.0070	Au-ICP21	VO20094562
			28.00	29.00		A0104624	0.0020	Au-ICP21	VO20094562
			29.00	30.00		A0104626	0.0190	Au-ICP21	VO20094562
			30.00	31.00		A0104627	0.0030	Au-ICP21	VO20094562
			31.00	32.00		A0104628	0.0005	Au-ICP21	VO20094562
			32.00	33.00		A0104629	0.0030	Au-ICP21	VO20094562
			33.00	34.00		A0104630	0.0020	Au-ICP21	VO20094562
			34.00	35.00		A0104631	0.0070	Au-ICP21	VO20094562
			35.00	36.00		A0104632	0.0150	Au-ICP21	VO20094562
			36.00	37.00		A0104633	0.0040	Au-ICP21	VO20094562
			37.00	38.00		A0104634	0.0010	Au-ICP21	VO20094562
			38.00	39.00		A0104635	0.0030	Au-ICP21	VO20094562
			39.00	40.00		A0104636	0.0010	Au-ICP21	VO20094562

brecciated, boudinaged, seldom foliated.

There is 0.5-1% pink to pink-white, carbonatite-related veinlets which occur parallel to the foliation planes or as irregular patches. These veinlets are fine-grained, mm-cm wide (max 5 cm), calcite-dominant, with elevated REEs (up to 800 ppm combined Ce, La, +/-Nd). They appear less deformed than the surrounding rock but some veinlets are boudinaged suggesting that they formed during late stages of deformation.

Mineralization: mostly traces of Py, locally 0.5-1% Py small to med-size euhedral to subhedral grains. Locally traces of Cpy.

An arbitrary lower contact.

23.85 40.00 FK; HM; CB; LX; AB; LM

Altération en feldspath potassique; Hématisation; Carbonatisation; Leuco

Strong patchy to pervasive K-alteration, red and specular Hem, pseudomorphs Hem after Mgt.
Strong patchy and fracture-filling carbonatization (Fe-carbonate, calcite/REE-calcite).
Weak to moderate patchy and disseminated leucoxene (beige, pink, grey).
Locally secondary minerals related to carbonatite alteration - apatite, actinolite, other.
Locally patchy albitization, silicification.
Rusty limonite on some fractured planes.

23.85 40.00 PY00.25; CPtr

Pyrite 0.25%; Chalcopyrite tr

Mostly traces Py, locally 0.5-1% Py, fine to med-size euhedral to subhedral grains. Locally traces Cpy.

23.85 40.00 CS; FA; BX 32

Cisaillé(e) 32°; Fracturé(e); Bréchique

Brittle-ductile deformation - strong fracturing, brecciation, microbrecciation, boudinage. Intermittent, weakly to moderately-developed foliation at 25 to 40CA, mainly at 30-35CA and mainly in basalt. There is 0.5-1% pink-white, carbonatite-related veinlets which occur parallel to the foliation planes or as irregular patches.

35.4-35.65 m - sheared syenite with foliation at 50CA.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

40.00 **47.85** I2D (V3B); CS; I4Q

Syénite avec 5 à 25% de basalte; Cisaillé; Carbonatite

A strongly deformed interval dominated by Syenite, with 15-25% fragments of Basalt and injected by 1-2% carbonatite veins.
The unit has a mottled, patchy appearance, variable in colour: various shades of red and pink, beige, grey.

Syenite is fine to medium-grained with sometimes distinct white Plg grains; often microbrecciated and cemented by carbonate. Strong red K and Hem ateration, patchy silicification and locally albitization.
Basalt fragments are cm to dm in size, with fuzzy or distinct contours, fine to medium-grained (recrystalized), strongly altered, carbonatized, with fine to med grains of beige leucoxene.

Magnetism: patchy magnetic due to the presence of fine grains of Mgt, which are mainly concentrated in carbonate patches. Some Mgt grains are altered to specular Hem.

Structure: brittle-ductile deformation, strong fracturing, brecciation, microbrecciation; locally weakly-developed foliation at 25-35CA.
At 42.5-44.6 m - pink carbonatite veins at 0-25CA, a few mm to 5 cm wide, fine-grained, enriched in REEs (up to 1000 ppm combined Ce, La).

Mineralization: mostly traces Py, locally 0.5% Py fine grains in carbonate patches, along rims of some carbonatite veins. Traces Cpy.

An approximate lower contact at ~50CA, sheared.

40.00 47.85 FK; HM; CB; LX; MG; SI; AB

Altération en feldspath potassique; Hématisation; Carbonatisation; Leuco

Strong patchy to pervasive K and red Hem alteration in syenite. Locally patchy albitization, silicification.
Strong patchy and fracture-filling carbonatization (dolomite to Fe-carbonate), cementing microbrecciated zones. REE-rich carbonate in veins, late fractures.
Specular Hem, apatite in carbonate-altered patches. Locally pseudomorphs Hem after Mgt.
Weak to moderate patchy and disseminated leucoxene (beige, pink, grey).

40.00 47.85 PY00.25; CPtr

Pyrite 0.25%; Chalcopyrite tr

Mostly traces Py, locally 0.5% Py fine grains in carbonate patches, along rims of some carbonatite veins. Traces Cpy.

40.00	41.00	A0104637	0.0050	Au-ICP21	VO20094562
41.00	42.00	A0104638	0.0005	Au-ICP21	VO20094562
42.00	43.00	A0104639	0.0070	Au-ICP21	VO20094562
43.00	44.00	A0104641	0.0040	Au-ICP21	VO20094562
44.00	45.00	A0104642	0.0020	Au-ICP21	VO20094562
45.00	46.00	A0104643	0.0080	Au-ICP21	VO20094562
46.00	47.00	A0104644	0.0040	Au-ICP21	VO20094562
47.00	48.00	A0104645	0.0120	Au-ICP21	VO20094562

40.00	47.85	FA; BX; CS	35	
		Fracturé(e); Bréchique; Cisaillé(e) 35°		
		Brittle-ductile deformation - strong fracturing, brecciation, microbrecciation; locally weakly-developed foliation at 25-35CA. At 42.5-44.6 m - pink carbonatite veins at 0-25CA, a few mm to 5 cm wide, fine-grained, enriched in REEs. At 45.1-45.3 m - a straight fracture at 10CA (same as carbonatite orientation), which crosscuts foliation at 35CA.		

From	To	Description
47.85	**48.80**	V3B (I2D); CS **Basalte avec 5 à 25% de syénite; Cisaillé** A strongly deformed interval dominated by fenitized Basalt with <10% Syenite. The unit has a mottled, patchy appearance, dominantly dark grey with red, beige and white patches, fine to medium-grained (recrystalized), fenitized, carbonatized and hematite-altered (red and specular Hem), with beige specks and patches of leucoxene. White carbonate/carbonatized anhedral grains and fine-grained masses give the rock a porphyritic appearance. Syenitic injections are fragmented, boudinaged to mm-cm irregular pieces. There are also small patches of secondary K-feldspar. Minor chloritized relicts. Magnetism: non-magnetic. Structure: the interval is sheared with moderately-developed foliation at 35-40CA, brecciated. Mineralization: traces of fine Py. An approximate lower contact at ~60CA.
47.85	48.80	CB; FK; HM; LX **Carbonatisation; Altération en feldspath potassique; Hématisation; Leuco** Strong patchy, fracture-filling carbonatization (Fe-carbonate). Moderate to strong patchy specular and red hematite, fenitization (secondary K-feldspar). Weak to moderate leucoxene.
47.85	48.80	PYtr **Pyrite tr** Traces of fine Py.
47.85	48.80	CS; BX 37 **Cisaillé(e) 37°; Bréchique** Strongly sheared with moderately-developed foliation at 35-40CA,

From	To	Len	SampleID	Au (ppm)	Method	Certificate
48.00	49.00		A0104646	0.0030	Au-ICP21	VO20094562

brecciated fragments of syenite.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
48.80	**51.60**	I2D (V3B); CS	49.00	50.00		A0104647	0.0050	Au-ICP21	VO20094562
		Syénite avec 5 à 25% de basalte; Cisaillé	50.00	51.00		A0104648	0.0005	Au-ICP21	VO20094562
		A strongly deformed interval dominated by Syenite, with 10-20% fragments of altered Basalt.	51.00	52.00		A0104649	0.0070	Au-ICP21	VO20094562
		The interval has a mottled, patchy appearance, dominantly red to purplish grey with beige and grey carbonatized patches which could be interpreted as fragments of basalt. Strong red K/Hem alteration, patchy silicification; strong patchy, fracture-filling and cementing carbonatization. Carbonatized patches often contain fine specularite which gives dark grey colour. Locally beige leucoxene. Magnetism: non-magnetic.							
		Structure: brittle-ductile deformation - strong fracturing, microbrecciation and weakly-developed, intermittent foliation at 30 to 45CA. Foliation is defined by fractures filled by dark grey, specular hematite.							
		Mineralization: traces of Py as fine to med, disseminated, cubic grains.							
		An approximate lower contact.							
48.80	51.60	FK; HM; CB; SI; LX							
		Altération en feldspath potassique; Hématisation; Carbonatisation; Silicifi							
		Strong red K/Hem alteration, patchy silicification. Strong patchy, fracture-filling and cementing carbonatization. Carbonatized patches often contain fine specularite which gives dark grey colour. Locally beige leucoxene.							
48.80	51.60	PYtr							
		Pyrite tr							
		Traces of Py as fine to med, disseminated, cubic grains.							
48.80	51.60	FA; CS; BX 37							
		Fracturé(e); Cisaillé(e) 37°; Bréchique							
		Brittle-ductile deformation - strong fracturing, microbrecciation and weakly-developed, intermittent foliation at 30 to 45CA. Foliation is defined by fractures filled by dark grey, specular hematite.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description
51.60	**55.00**	V3B (I2D) **Basalte avec 5 à 25% de syénite** A strongly deformed interval dominated by fenitized Basalt, with 10-15% Syenite. The unit has a mottled, patchy appearance, dominantly dark grey with red, beige and white patches, fine to medium-grained (recrystalized), fenitized, carbonatized and hematite-altered (red and specular Hem), with beige specks and patches of leucoxene. White carbonate/carbonatized anhedral grains and fine-grained masses give the rock a porphyritic appearance. Syenitic injections are fragmented, boudinaged to mm-cm irregular pieces. There are also small patches of secondary K-feldspar. Minor chloritized relicts. Magnetism: non-magnetic. Structure: brittle-ductile deformation - shearing with weakly to moderately-developed foliation at 35-42CA, brecciation, fracturing. Mineralization: traces to 0.5% Py small subhedral grains. An approximate lower contact.
51.60	55.00	FK; HM; CB; LX **Altération en feldspath potassique; Hématisation; Carbonatisation; Leuco** Moderate to strong patchy red K/Hem alteration, fenitization, specular hematite. Moderate to strong patchy and fracture-filling carbonatization. Weak to moderate disseminated and patchy leucoxene. Minor chloritized relicts.
51.60	55.00	PY00.25 **Pyrite 0.25%** Traces to 0.5% Py small disseminated subhedral grains.
51.60	55.00	CS; BX; FA **Cisaillé(e); Bréchique; Fracturé(e)** Brittle-ductile deformation - shearing with weakly to moderately-developed foliation at 35-42CA, brecciation, fracturing.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
52.00	53.00		A0104650	0.0160	Au-ICP21	VO20094562
53.00	54.00		A0104651	0.0090	Au-ICP21	VO20094562
54.00	55.00		A0104652	0.0040	Au-ICP21	VO20094562

From	To	Description
55.00	**59.00**	I2D (V3B) **Syénite avec 5 à 25% de basalte** A strongly deformed interval dominated by Syenite, with <25% fragments of altered Basalt. The unit is mottled, mostly red to orange-red, with beige, grey and greenish grey patches. Syenite is fine-grained to medium-grained with sometimes distinct white Plg grains. Strong patchy red K/Hem alteration, moderate patchy and fracture-filling carbonatization, minor leucoxene, relicts of chlorite and sericite in basalt fragments. Carbonate, specular Hem and possibly black chlorite in fractures and shear bands. Magnetism: non-magnetic. Structure: brittle-ductile deformation - brecciation, fracturing, locally weakly-developed foliation at 25-35CA. At 55.35-55.7 m and 57.2-57.8 m - 0.5% pink, fine-grained Ca-carbonatite fragmented veins at 5 to 35CA. Mineralization: traces Py. An approximate lower contact.
55.00	59.00	FK; HM; CB; SI; LX **Altération en feldspath potassique; Hématisation; Carbonatisation; Silicifi** Strong red K/Hem alteration, patchy silicification. Specular hematite and possibly black chlorite in fractures and shear bands. Moderate to strong patchy, fracture-filling and cementing carbonatization. Locally beige leucoxene. Minor relict green-grey chlorite and sericite in basalt fragments.
55.00	59.00	PYtr **Pyrite tr** Traces Py.
55.00	59.00	BX; FA; CS **Bréchique; Fracturé(e); Cisaillé(e)** Brittle-ductile deformation - brecciation, fracturing, locally weakly-developed foliation at 25-35CA. At 55.35-55.7 m and 57.2-57.8 m - 0.5% pink, fine-grained Ca-carbonatite fragmented veins at 5 to 35CA.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
55.00	56.00		A0104653	0.0180	Au-ICP21	VO20094562
56.00	57.00		A0104654	0.0190	Au-ICP21	VO20094562
57.00	58.00		A0104655	0.0240	Au-ICP21	VO20094562
58.00	59.00		A0104657	0.0020	Au-ICP21	VO20094562

59.00 **73.10** V3B I2D; CS

Basalte avec 25 à 50% de syénite; Cisaillé

Sheared Basalt with 30-40% Syenite fragmented injections and fenitized patches.
The rock has a mottled appearance with variable shades of red, pink, grey and beige. Both lithologies exhibit moderate to strong patchy to pervasive K-alteration, red and specular hematitization, patchy and fracture-filling carbonatization, beige specks of leucoxene. Basalt is fine to medium-grained, strongly altered, fenitized, carbonatized, patchy sericitized. Minor green patches - actinolite, relicts of chlorite? White carbonatized fine-grained masses give some parts a pseudo-porphyritic appearance. Syenite is fine to medium-grained, with distinct white Plg grains. Some syenite injections have distinct contacts, sometimes parallel to the foliation and sometimes crosscutting it.
Magnetism: non-magnetic.

Structure: strong brittle-ductile deformation - intermittent moderately-developed foliation at 30-40CA, brecciation, microbrecciation, fracturing. Occasional pink, fine-grained, irregular Ca-carbonatite veins, 1-5 cm wide, occur throughout the unit. A few occasional low-angle fractures at 10-15CA crosscut the foliation.
60.4 m - a cm shear band at 20CA cutting across foliation at 35-38CA.
61.5-62. m - a low-angle fracture (S2, at 10CA) filled by carbonate with tension gashes (S3, 27-45CA) terminating on S2. The low-angle fracture crosscuts a carbonatite vein/patch.
63-64 m - 1-2% irregular, pink, fine-grained Ca-carbonatite veins at 15 to 35CA.

Mineralization:
59-63 m - traces of disseminated cubic Py.
63-64 m - 0.25% fine Py in pink carbonatite veins and in fractures.
64-66.6 m - 1-5% Py fine-grained aggregates in patchy silicified and carbonatized syenite fragments and fenitized patches within sheared basalt; traces Py in basalt.
66.6-73.1m - traces of small Py grains.

An approximate lower contact.

59.00 73.10 FK; HM; CB; SR; LX

Altération en feldspath potassique; Hématisation; Carbonatisation; Séricit

Moderate to strong patchy to pervasive K-alteration, red and specular hematitization, patchy and fracture-filling carbonatization, beige specks of leucoxene.
Weak to moderalt patchy sericitization in basalt, minor green patches - actinolite, relicts of chlorite?

59.00	60.00	A0104658	0.0070	Au-ICP21	VO20094562
60.00	61.00	A0104659	0.0340	Au-ICP21	VO20094562
61.00	62.00	A0104660	0.0010	Au-ICP21	VO20094562
62.00	63.00	A0104661	0.0050	Au-ICP21	VO20094562
63.00	64.00	A0104662	0.0300	Au-ICP21	VO20094562
64.00	65.00	A0104663	0.0560	Au-ICP21	VO20094562
65.00	66.00	A0104664	0.0530	Au-ICP21	VO20094562
66.00	67.00	A0104665	0.0400	Au-ICP21	VO20094562
67.00	68.00	A0104666	0.0020	Au-ICP21	VO20094562
68.00	69.00	A0104667	0.0110	Au-ICP21	VO20094562
69.00	70.00	A0104668	0.0070	Au-ICP21	VO20094562
70.00	71.00	A0104669	0.0060	Au-ICP21	VO20094562
71.00	72.00	A0104670	0.0060	Au-ICP21	VO20094562
72.00	73.00	A0104671	0.0020	Au-ICP21	VO20094562

59.00	63.00	PYtr	
		Pyrite tr	
		Traces of disseminated cubic Py.	
63.00	64.00	PY00.25	
		Pyrite 0.25%	
		Traces to 0.25% fine Py in pink carbonatite veins and in fractures.	
64.00	66.60	PY02	
		Pyrite 2%	
		1-5% Py fine-grained aggregates in patchy silicified and carbonatized syenite fragments and fenitized patches within sheared basalt; traces Py in basalt.	
66.60	73.10	PYtr	
		Pyrite tr	
		Traces of small Py grains.	
59.00	73.10	CS; BX; FA	35
		Cisaillé(e) 35°; Bréchique; Fracturé(e)	
		Strong brittle-ductile deformation - intermittent moderately-developed foliation at 30-40CA, brecciation, microbrecciation, fracturing. Occasional pink, fine-grained, irregular Ca-carbonatite veins, 1-5 cm wide, occur throughout the unit. A few occasional low-angle fractures at 10-15CA crosscut the foliation. 60.4 m - a cm shear band at 20CA cutting across foliation at 35-38CA. 61.5-62. m - a low-angle fracture (S2, at 10CA) filled by carbonate and tension gashes (S3, 27-45CA) terminating on S2. The low-angle fracture crosscuts a carbonatite vein/patch. 63-64 m - 1-2% irregular, pink, fine-grained Ca-carbonatite veins at 15 to 35CA.	

From	To	Description
73.10	**75.15**	I2D (V3B)
		Syénite avec 5 à 25% de basalte
		Syenite with 10-15% fragments of Basalt. Syenite is medium brick red, massive, fine to medium-grained, strongly fractured, hard to scratch. Strong pervasive K/Hem alteration, patchy and fracture-filling carbonatization. Specular hematite flakes are present in the matrix and in fractures. Basalt fragments are a few cm to dm in size, medium-grained, gabbroic, probably recrystalized, patchy fenitized, hematitized (specular Hem), carbonatized and sericitized. Magnetism: non-magnetic.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
73.00	74.00		A0104672	0.0080	Au-ICP21	VO20094562
74.00	75.00		A0104674	0.0010	Au-ICP21	VO20094562

Structure: strong fracturing. There are two distinct fracture orientations: 1) 5-25CA, parallel to subparallel fractures, filled by carbonate; 2) fractures oriented at 50-60CA in opposite direction to low-angle fractures and filled by carbonate and specular Hem. Dissolution cavities along some fractures.

Mineralization: traces Py.

A somewhat distinct lower contact, sheared at 50CA.

73.10 75.15 FK; HM; CB; SI; SR

Altération en feldspath potassique; Hématisation; Carbonatisation; Silicifi

Strong pervasive H/Hem alteration, silicification, specular Hem and carbonate in fractures, interstices.
Basalt fragments are patchy carbonatized, sericitized, fenitized. Minor leucoxene.

73.10 75.15 PYtr

Pyrite tr

Traces Py.

73.10 75.15 FA

Fracturé(e)

Strong fracturing. There are two distinct fracture orientations:
1) 5-25CA, parallel to subparallel fractures, filled by carbonate;
2) fractures oriented at 50-60CA in opposite direction to low-angle fractures and filled by carbonate and specular Hem.
Dissolution cavities along some fractures.

From	To	Description
75.15	**80.70**	V3B (I2D) **Basalte avec 5 à 25% de syénite 50°** Strongly fractured Basalt with 15-25% fenitized patches and syenite injections. The rock is medium to dark grey with red, K/Hem-altered patches and injections. The matrix is fine-grained to medium-grained (recrystallized due to fenitization), pervasively to patchy carbonatized, hematitized (specular and red Hem); minor beige leucoxene specks and minor relicts of sericite/chlorite/actinolite prior alteration. Locally fine black needles - probably secondary Amph, Px. XRF shows presence of PO4-bearing minerals (probably apatite). Magnetism: non-magnetic to weakly-magnetic. Structure: moderate to strong fracturing with white to pinkish white

From	To	Len	SampleID	Au (ppm)	Method	Certificate
75.00	76.00		A0104675	0.0040	Au-ICP21	VO20094562
76.00	77.00		A0104676	0.0090	Au-ICP21	VO20094562
77.00	78.00		A0104677	0.0030	Au-ICP21	VO20094562
78.00	79.00		A0104678	0.0050	Au-ICP21	VO20094562
79.00	80.00		A0104679	0.0005	Au-ICP21	VO20094562
80.00	81.00		A0104680	0.0190	Au-ICP21	VO20094562

carbonate infilling. Fractures are variably oriented at angles ranging from 30 to 75CA.

Mineralization: traces to 0.5% fine Py,

A somewhat distinct lower contact at 35CA which is cut across by white carbonate tension veinlets at 45CA.

75.15 80.70 FK; HM; CB; LX; SR

Altération en feldspath potassique; Hématisation; Carbonatisation; Leuco

Moderate to strong patchy to pervasive K/Hem alteration (fenitization), specular Hem in the matrix, fractures. Locally fine black needles - probably secondary Amph/Px. Presence of PO4-bearing minerals (probably apatite). Strong pervasive to patchy and fracture-filling carbonatization (calcite/carbonate).
Minor beige leucoxene specks and minor relicts of sericite/chlorite/actinolite prior alteration.

75.15 80.70 PYtr

Pyrite tr

Traces to 0.5% fine Py,

75.15 80.70 FA

Fracturé(e)

Moderate to strong fracturing with white to pinkish white carbonate infilling. Fractures are variably oriented at angles ranging from 30 to 75CA, sub-mm to 1-3 mm wide, tension veinlets..Locally minor brecciation.

From	To	Description
80.70	**84.90**	I2D (V3B) **Syénite avec 5 à 25% de basalte 35°** Syenite. Medium brick red to greyish red, massive, fine to medium-grained with almost destroyed porphyritic textures, hard to scratch, with strong patchy to pervasive K/Hem alteration and greyish silicification. Weak to moderate interstitial and fracture-filling carbonatization, minor specular hematite in fractures and late veins. Magnetism: non-magnetic. Structure: moderate fracturing, locally microbrecciation. Late veins and tension veinlets composed of Qz, Carb, spec Hem and Alb are oriented at 55-75CA and crosscut older fractures. At 81.2 m - a narrow shear zone foliated at 35-40CA. At 82.6-82.7 m - Qz-specHem-Carb veinlets and fractures (oriented at 65-

From	To	Len	SampleID	Au (ppm)	Method	Certificate
81.00	82.00		A0104681	0.0050	Au-ICP21	VO20094562
82.00	83.00		A0104682	0.0010	Au-ICP21	VO20094562
83.00	84.00		A0104683	0.0005	Au-ICP21	VO20094562
84.00	85.00		A0104684	0.0005	Au-ICP21	VO20094562

70CA) crosscut older fractures filled by specular Hem (oriented at 25-30CA).

Mineralization: traces disseminated Py. Traces Cpy in late veinlets and fractures.

The lower contact is distinct, sheared at 35-40CA.

80.70 84.90 FK; HM; SI; CB

Altération en feldspath potassique; Hématisation; Silicification; Carbonati

Strong patchy to pervasive K/Hem alteration and greyish silicification.
Weak to moderate interstitial and fracture-filling carbonatization,.
Minor specular hematite in fractures and late Qz-Carb-Hem-Alb veins.

80.70 84.90 PYtr; CPtr

Pyrite tr; Chalcopyrite tr

Traces disseminated Py. Traces Cpy in late veinlets and fractures.

80.70 84.90 FA

Fracturé(e)

Moderate fracturing, locally microbrecciation. Late veins and tension veinlets composed of Qz, Carb, spec Hem and Alb are oriented at 55-75CA and crosscut older fractures.
At 81.2 m - a narrow shear zone foliated at 35-40CA.
At 82.6-82.7 m - Qz-specHem-Carb veinlets and fractures (oriented at 65-70CA) crosscut older fractures filled by specular Hem (oriented at 25-30CA).

From	To	Description
84.90	**95.00**	V3B (I2D); CS **Basalte avec 5 à 25% de syénite 37°; Cisaillé** Strongly deformed, sheared and patchy fenitized Basalt with ~25% Syenite. The rock is mottled, medium grey with red fragmented syenite injections and fenitized patches. The matrix is fine to medium-grained, patchy to pervasively carbonatized, hematitized (abundant specular Hem) and fenitized. Weak to moderate leucoxene alteration; specks are often stretched along the foliation. There are green, fine-grained patches in the matrix which could be relicts of chlorite/sericite/actinolite prior alteration. Syenite injections are brick red, cm to dm wide, with distinct contacts, fine to medium-grained. Some are oriented parallel to the foliation but most commonly crosscut it. The fragmented injections often have a striped appearance due to the presence of parallel cracks filled by white carbonate and oriented perpendicular to the walls of injections.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
85.00	86.00		A0104685	0.0040	Au-ICP21	VO20094562
86.00	87.00		A0104686	0.0060	Au-ICP21	VO20094562
87.00	88.00		A0104687	0.0070	Au-ICP21	VO20094562
88.00	89.00		A0104689	0.0350	Au-ICP21	VO20094562
89.00	90.00		A0104690	0.0070	Au-ICP21	VO20094562
90.00	91.00		A0104691	0.0820	Au-ICP21	VO20094562
91.00	92.00		A0104692	0.0570	Au-ICP21	VO20094562
92.00	93.00		A0104693	0.0120	Au-ICP21	VO20094562
93.00	94.00		A0104694	0.0040	Au-ICP21	VO20094562
94.00	95.00		A0104695	0.0050	Au-ICP21	VO20094562

Magnetism: non-magnetic.
Structure: strong ductile-brittle deformation, shearing with moderately to well-developed foliation at 30-35CA, boudinaged syenite injections. Late tension veinlets (1-3%, 1-3 mm) filled by white to pinkish white carbonate crosscut the foliation at angles ranging from 30 to 60CA.

Mineralization: traces Py.

An approximate lower contact.

84.90 95.00 HM; CB; FK; LX; SR

Hématisation; Carbonatisation; Altération en feldspath potassique; Leuco

Strong pervasive to patchy hematitization (specular hematite). Strong pervasive to patchy and fracture-filling carbonatization.
Patchy fenitization, K-alteration in syenite and basalt.
Weak to moderate leucoxene alteration.
There are green, fine-grained patches in the matrix which could be relicts of chlorite/sericite/actinolite prior alteration.

84.90 95.00 PYtr

Pyrite tr

Traces Py.

84.90 95.00 CS; FA 32

Cisaillé(e) 32°; Fracturé(e)

Strong ductile-brittle deformation, shearing with moderately to well-developed foliation at 30-35CA, boudinaged syenite injections. Late tension veinlets (1-3%, 1-3 mm wide) filled by white to pinkish white carbonate crosscut the foliation at angles ranging from 30 to 60CA.

From	To	Description
95.00	**104.50**	I2D; CS **Syénite; Cisaillé** Syenite, sheared, fractured, blocky core. Medium red (brick red to orange-red) with grey and beige carbonatized patches, some of which could be highly altered, bleached fragments of basalt (5%), and some are carbonatite-related veins with slightly elevated REEs. The matrix is fine-grained, locally relicts of porphyritic texture. Strong patchy to pervasive red K/Hem alteration (up to 10% K), minor specular Hem on fractured surfaces, patchy silicification; strong patchy and fracture-filling carbonatization (dolomite to Fe-carbonate with a mild reaction to HCl). Magnetism: non-magnetic.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
95.00	96.00		A0104696	0.0380	Au-ICP21	VO20094562
96.00	97.00		A0104697	0.0110	Au-ICP21	VO20094562
97.00	98.00		A0104698	0.0320	Au-ICP21	VO20094562
98.00	99.00		A0104699	0.0005	Au-ICP21	VO20094562
99.00	100.00		A0104700	0.0020	Au-ICP21	VO20094562
100.00	101.00		A0104701	0.0050	Au-ICP21	VO20094562
101.00	102.00		A0104702	0.0620	Au-ICP21	VO20094562
102.00	103.00		A0104703	0.0250	Au-ICP21	VO20094562
103.00	104.00		A0104705	0.0260	Au-ICP21	VO20094562
104.00	105.00		A0104706	**0.1050**	Au-ICP21	VO20094562

Structure: strong brittle-ductile deformation, syenite is frequently microbrecciated and cemented by carbonate. Intermittently-developed weak to moderate foliation at 30-40CA. The core is blocky, broken to cm-dm pieces, RQD<25%.
101-104.5 m - 1-2% mm-cm veinlets composed of colorless Qz and creamy white Carb (dolomite to Fe-dolomite), variably oriented, often fragmented and with dissolution cavities.

Mineralization: traces fine Py.

The lower contact is arbitrary, marked to distinguish carbonatite-related alteration.

95.00 104.50 FK; CB; HM; SI

Altération en feldspath potassique; Carbonatisation; Hématisation; Silicifi

Strong patchy to pervasive red K/Hem alteration, minor specular Hem on fractured surfaces, patchy silicification; strong patchy and fracture-filling carbonatization (dolomite to Fe-carbonate with a mild reaction to HCl).

95.00 104.50 PYtr

Pyrite tr

Traces Py.

95.00 104.50 FA; BX; CS 35

Fracturé(e); Bréchique; Cisaillé(e) 35°

Strong brittle-ductile deformation, syenite is frequently microbrecciated and cemented by carbonate.
Intermittently-developed weak to moderate foliation at 30-40CA.
The core is blocky, broken to cm-dm pieces, RQD<25%.

From	To	Description
104.50	**117.00**	I2D; I4Q; CS **Syénite; Carbonatite; Cisaillé** Continuation of Syenite, sheared, with carbonatite-related veins. The rock is medium red, mottled, with numerous grey and beige-grey carbonate patches and foliated zones. The matrix is fine to medium-grained with relicts of porphyritic texture, sugary in carbonate-altered parts, hard to scratch, pervasively to patchy K-altered and silicified. Moderate to strong patchy, fracture-filling and cementing carbonatization. Grey carbonate patches contain elevated PO4 (up to 30%, probably as apatite) and REEs (up to 0.15% combined Ce, La, Nd, +/-Pr and Y), and appear to be carbonatite-related. Magnetism: non-magnetic.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
105.00	106.00		A0104707	0.0310	Au-ICP21	VO20094562
106.00	107.00		A0104708	0.0260	Au-ICP21	VO20094562
107.00	108.00		A0104709	**0.6060**	Au-ICP21	VO20094562
108.00	109.00		A0104710	**2.1000**	Au-ICP21	VO20094562
109.00	110.00		A0104711	**1.2150**	Au-ICP21	VO20094562
110.00	111.00		A0104712	**1.7950**	Au-ICP21	VO20094562
111.00	112.00		A0104713	**1.4550**	Au-ICP21	VO20094562
112.00	113.00		A0104714	**2.3900**	Au-ICP21	VO20094562
113.00	114.00		A0104715	0.0870	Au-ICP21	VO20094562
114.00	115.00		A0104716	**0.1200**	Au-ICP21	VO20094562
115.00	116.00		A0104717	**0.5850**	Au-ICP21	VO20094562

116.00	117.00		A0104718	0.0650	Au-ICP21	VO20094562

Structure: strong brittle-ductile deformation strong irregular fracturing with carbonate and minor specular hematite infilling;.frequent microbrecciation with carbonate cement; shearing with intermittent, moderately-developed foliation at 35 to 55CA. Some dissolution cavities along fractures.

Mineralization:
104.5-107.3 m - traces of fine Py.
107.3-114 m - 0.5-3% Py small to medium and coarse subhedral to euhedral, etched grains, disseminated, and also fine to medium-grained aggregates in fractures and some shear bands. Locally up to 5% Py. Sugary foliated zones have traces to 0.5% Py. Locally traces Cpy.
114-117 m - traces Py, locally 0.5-1% Py cubic grains.

An arbitrary lower contact.

104.50 117.00 FK; CB; HM; SI

Altération en feldspath potassique; Carbonatisation; Hématisation; Silicifi

Strong petchy to pervasive red K/Hem alteration, patchy silcification. Strong patchy, fracture-filling and cementing carbonatization. Grey carbonate (carbonatite-related) contains apatite, minor specular hematite. Minor specular hematite on fractured surfaces.

104.50 107.30 PYtr

Pyrite tr

Traces of fine Py.

107.30 114.00 PY02; CPtr

Pyrite 2%; Chalcopyrite tr

0.5-3% Py small to medium and coarse, subhedral to euhedral, etched grains, disseminated, fine to medium-grained aggregates in fractures and some shear bands. Locally up to 5% Py. Sugary, carbonatized, foliated zones have traces to 0.5% Py. Locally traces Cpy.

114.00 117.00 PY00.5

Pyrite 0.5%

Traces Py, locally 0.5-1% Py cubic grains.

104.50 106.50 CS 45

Cisaillé(e) 45°

Sheared interval with moderately-developed foliation at 35-55CA.

106.50 117.00 FA; BX; CS 35

Fracturé(e); Bréchique; Cisaillé(e) 35°

Strong brittle-ductile deformation - strong irregular fracturing with carbonate and minor specular hematite infilling;.frequent microbrecciation with carbonate cement; shearing with intermittent, moderately-developed foliation at 35 to 55CA. Some dissolution cavities along fractures.

From	To	Description
117.00	**122.00**	I2D **Syénite** Continuation of Syenite, strongly fractured. The rock is intensely red, greyish red, orange-red, massive, very hard, fine-grained, locally has relicts of porphyritic texture. Strong pervasive red K/Hem-alteration (fenitization) and silicification, weak to locally moderate patchy carbonatization. Minor specular hematite in fractures, weak to moderate carbonate and fluorite filling cracks and fractures. Magnetism: non-magnetic. Structure: moderate to strong fracturing, common crackle brecciation with fluorite, silica and specularite cementation. The core is blocky, broken to less than a dm pieces along fractures oriented at 40-55CA, which are coated by greyish carbonate +/-apatite +/- specular Hem. Mineralization: 117-118 m - traces of fine Py. 118-122 m - traces to 1-2% Py fine subhedral to anhedral grains and fine-grained aggregates in cracks. An arbitrary lower contact, changes in colour, increasing fluorite in fractures.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
117.00	118.00		A0104719	**0.2260**	Au-ICP21	VO20094562
118.00	119.00		A0104720	**0.6170**	Au-ICP21	VO20094562
119.00	120.00		A0104722	**0.7910**	Au-ICP21	VO20094562
120.00	121.00		A0104723	**0.4370**	Au-ICP21	VO20094562
121.00	122.00		A0104724	**1.3600**	Au-ICP21	VO20094562

117.00 122.00 FK; SI; HM; CB; FL

Altération en feldspath potassique; Silicification; Hématisation; Carbonati

Strong pervasive red to orange-red K/Hem-alteration (fenitization) and silicification, weak to locally moderate patchy carbonatization.
Minor specular hematite in fractures, weak to moderate carbonate and fluorite filling cracks and fractures. Colorless silica cementing brecciated fragments.

117.00 118.00 PYtr; CPtr

Pyrite tr; Chalcopyrite tr

Traces Py, traces Cpy in specularite-filled fractures.

118.00 122.00 PY01

Pyrite 1%

Traces to 1-2% Py fine subhedral to anhedral grains and fine-grained aggregates in cracks.

117.00 122.00 FA; BX

Fracturé(e); Bréchique

Moderate to strong fracturing, common crackle brecciation with fluorite, silica and specularite cementation. The core is blocky, broken to less than dm pieces along fractures oriented at 40-55CA, which are coated by greyish carbonate +/-apatite +/- specular Hem.

From	To	Description
122.00	**141.90**	I2D; CS

Syénite; Cisaillé

Continuation of Syenite, sheared and fractured.
The unit is mottled, medium red, pink-red to orange-red with grey carbonatized and silicified patches and dark purple, fluorite-filled networks of cracks. The matrix is fine to medium-grained, sometimes sugary, often microbrecciated. Moderate to strong patchy K/Hem alteration, silicification, carbonatization. Some carbonate patches and fluorite zones contain minerals rich in REEs (300 to 1600 ppm) and PO4 (up to 30%).
XRF (orange-red syenite): SiO2=44%, Al2O3=13%, K=10%, Ca=1%, Fe=1%, REEs (Ce, La) vary from 200 to 500 ppm.

Magnetism: non-magnetic.

Structure: strong brittle-ductile deformation - strong fracturing, common crackle brecciation with fluorite, carbonate and minor albite infilling. Intermittently-developed weak to moderate foliation at angles ranging from 25 to 50CA (mainly 35-40CA). At 135-141.9 m - moderately to well-developed foliation at 35-45CA.
There are a few occasional fractures oriented at low core angles, 5-15CA, straight or slightly undulating, crosscutting the foliation and filled by carbonate, fluorite and albite.

Mineralization: traces to 1-3% Py fine and lesser med-size disseminated grains, fine-grained aggregates in fractures and silicified patches. Locally traces Cpy.

The lower contact is marked at the end of shearing; the grain size becomes coarser.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
122.00	123.00		A0104725	**0.9700**	Au-ICP21	VO20094562
123.00	124.00		A0104726	**3.0600**	Au-ICP21	VO20094562
124.00	125.00		A0104727	**2.5700**	Au-ICP21	VO20094562
125.00	126.00		A0104728	**0.4420**	Au-ICP21	VO20094562
126.00	127.00		A0104729	**0.6220**	Au-ICP21	VO20094562
127.00	128.00		A0104730	**2.7600**	Au-ICP21	VO20094562
128.00	129.00		A0104731	**1.0600**	Au-ICP21	VO20094562
129.00	130.00		A0104732	**0.4410**	Au-ICP21	VO20094562
130.00	131.00		A0104733	**1.1700**	Au-ICP21	VO20094562
131.00	132.00		A0104734	**0.7900**	Au-ICP21	VO20094562
132.00	133.00		A0104735	**0.4600**	Au-ICP21	VO20094562
133.00	134.00		A0104737	**1.1950**	Au-ICP21	VO20094562
134.00	135.00		A0104738	**1.7650**	Au-ICP21	VO20094562
135.00	136.00		A0104739	**1.0850**	Au-ICP21	VO20094562
136.00	137.00		A0104740	**0.6490**	Au-ICP21	VO20094562
137.00	138.00		A0104741	**0.1780**	Au-ICP21	VO20094562
138.00	139.00		A0104742	**0.3850**	Au-ICP21	VO20094562
139.00	140.00		A0104743	**0.3800**	Au-ICP21	VO20094562
140.00	141.00		A0104744	**0.3850**	Au-ICP21	VO20094562
141.00	142.00		A0104745	**0.4890**	Au-ICP21	VO20094562

122.00 141.90 FK; SI; CB; HM; FL; AB

Altération en feldspath potassique; Silicification; Carbonatisation; Hémati

Moderate to strong patchy to pervasive red K/Hem alteration, patchy silicification, weak fracture-filling albitization.
Moderate patchy and fracture-filling carbonatization (dolomite/Fe-dolomite),
Fluorite in cracks, fractures, crackle breccia.

122.00 141.90 PY01.5; CPtr

Pyrite 1.5%; Chalcopyrite tr

Traces to 1-3% Py fine and lesser med-size disseminated grains, fine-grained aggregates in fractures and silicified patches. Locally traces Cpy.

122.00 141.90 BX; FA; CS 35

Bréchique; Fracturé(e); Cisaillé(e) 35°

Strong brittle-ductile deformation - strong fracturing, common crackle brecciation with fluorite, carbonate and minor albite infilling.
Intermittently-developed weak to moderate foliation at angles ranging from 25 to 50CA (mainly 35-40CA). At 135-141.9 m - moderately to well-developed foliation at 35-45CA.
A few occasional fractures oriented at low core angles, 5-15CA, straight or slightly undulating, crosscutting the foliation and filled by carbonate, fluorite and albite.

From	To	Description
141.90	**186.00**	I2D; GG **Syénite; Grains grossiers** Syenite to Monzonite, strongly fractured and brecciated. The unit is medium reddish pink in the upper portion, over about 15 meters, then it becomes paler, bleached, pink, beige-pink to greyish pink, with numerous cracks and fractures filled by dark purple fluorite. The matrix is coarse to medium-grained with distinct white and pink feldspar anhedral grains, often with fuzzy contours. Plg grains often exhibit parallel striations. Moderate to strong patchy silicification, albitization, carbonatization. Moderate hematitization in the upper portion, weaker in the rest of the unit. XRF (coarse syenite): SiO2=42-44%, Al2O3=12-13%, K=6-9%, Ca=1%, Fe=1%, no or low REEs. Magnetism: non-magnetic. Structure: strong fracturing and crackle brecciation. Fluorite, albite, silica and carbonate in cracks and fractures. The most intense deformation occurs from ~156 to ~186 m. Fractures are variably oriented but there is one distinct orientation at 50-65CA and another, less common, at 10-15CA.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
142.00	143.00		A0104746	**2.3500**	Au-ICP21	VO20094562
143.00	144.00		A0104747	**0.5120**	Au-ICP21	VO20094562
144.00	145.00		A0104748	**0.4430**	Au-ICP21	VO20094562
145.00	146.00		A0104749	**0.4200**	Au-ICP21	VO20094562
146.00	147.00		A0104750	**0.2360**	Au-ICP21	VO20094562
147.00	148.00		A0104751	**2.0600**	Au-ICP21	VO20094562
148.00	149.00		A0104753	**0.5950**	Au-ICP21	VO20094564
149.00	150.00		A0104754	**0.5500**	Au-ICP21	VO20094564
150.00	151.00		A0104755	**0.4820**	Au-ICP21	VO20094564
151.00	152.00		A0104756	**0.8860**	Au-ICP21	VO20094564
152.00	153.00		A0104757	**4.3500**	Au-ICP21	VO20094564
153.00	154.00		A0104758	**1.5100**	Au-ICP21	VO20094564
154.00	155.00		A0104759	**0.6530**	Au-ICP21	VO20094564
155.00	156.00		A0104760	**0.9660**	Au-ICP21	VO20094564
156.00	157.00		A0104761	**1.8350**	Au-ICP21	VO20094564
157.00	158.00		A0104762	**1.9800**	Au-ICP21	VO20094564
158.00	159.00		A0104763	**2.4900**	Au-ICP21	VO20094564
159.00	160.00		A0104764	**2.7800**	Au-ICP21	VO20094564

From	To	Description
		Common dissolution cavities along some fractures. Blocky, broken core. Mineralization: 0.5 to 5% Py fine to med-size disseminated subhedral to euhedral grains and fracture-filling fine-grained aggregates; locally Cpy in fluorite-filled fractures. 147.5-148.0 m – 5% Py+Cpy in brecciated syenite cemented by fluorite. The lower contact is arbitrary, placed to mark the decreasing deformation.
141.90	159.00	FK; SI; CB; FL; HM; AB **Altération en feldspath potassique; Silicification; Carbonatisation; Fluoriti** Moderate pink-red K/Hem alteration, patchy silicification, albitization. Moderate patchy and fracture-filling carbonatization. Fluorite, albite, carbonate, silica in cracks and fractures.
159.00	186.00	SI; AB; FK; FL; CB; HM **Silicification; Albitisation; Altération en feldspath potassique; Fluoritisatio** Moderate to strong patchy silicification, albitization, weak patchy K/Hem alteration. Moderate patchy and fracture-filling carbonatization. Fluorite, albite, carbonate, silica in cracks and fractures.
141.90	147.50	PY02; CPtr **Pyrite 2%; Chalcopyrite tr** 0.5 to 4% Py fine to med-size disseminated subhedral to euhedral grains and fracture-filling fine-grained aggregates; Cpy in fluorite-filled fractures.
147.50	148.00	PY02; CP02 **Pyrite 2%; Chalcopyrite 2%** 3-5% Py+Cpy ifine-grained masses in brecciated syenite cemented by fluorite.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
160.00	161.00		A0104765	**1.2950**	Au-ICP21	VO20094564
161.00	162.00		A0104766	**1.0750**	Au-ICP21	VO20094564
162.00	163.00		A0104767	**0.4630**	Au-ICP21	VO20094564
163.00	164.00		A0104768	**1.5850**	Au-ICP21	VO20094564
164.00	165.00		A0104770	**1.4350**	Au-ICP21	VO20094564
165.00	166.00		A0104771	**1.8850**	Au-ICP21	VO20094564
166.00	167.00		A0104772	**0.8270**	Au-ICP21	VO20094564
167.00	168.00		A0104773	**0.8110**	Au-ICP21	VO20094564
168.00	169.00		A0104774	**3.2500**	Au-ICP21	VO20094564
169.00	170.00		A0104775	**2.2000**	Au-ICP21	VO20094564
170.00	171.00		A0104776	**3.2100**	Au-ICP21	VO20094564
171.00	172.00		A0104777	**1.9500**	Au-ICP21	VO20094564
172.00	173.00		A0104778	**1.2650**	Au-ICP21	VO20094564
173.00	174.00		A0104779	**1.4500**	Au-ICP21	VO20094564
174.00	175.00		A0104780	**0.6120**	Au-ICP21	VO20094564
175.00	176.00		A0104781	**1.6200**	Au-ICP21	VO20094564
176.00	177.00		A0104782	**1.3400**	Au-ICP21	VO20094564
177.00	178.00		A0104783	**1.4600**	Au-ICP21	VO20094564
178.00	179.00		A0104785	**0.8740**	Au-ICP21	VO20094564
179.00	180.00		A0104786	**1.6200**	Au-ICP21	VO20094564
180.00	181.00		A0104787	**1.3750**	Au-ICP21	VO20094564
181.00	182.00		A0104788	**0.5590**	Au-ICP21	VO20094564
182.00	183.00		A0104789	**1.1250**	Au-ICP21	VO20094564
183.00	184.00		A0104790	**0.1890**	Au-ICP21	VO20094564
184.00	185.00		A0104791	**0.2790**	Au-ICP21	VO20094564
185.00	186.00		A0104792	**0.3130**	Au-ICP21	VO20094564

From	To	Description
186.00	**264.50**	I2D; GG; I4Q **Syénite; Grains grossiers; Carbonatite** Continuation of Syenite. Syenite is pale greyish pink, beige-pink, coarse to medium-grained with distinct white and pink feldspar anhedral grains with fuzzy contours. Some Plg grains exhibit parallel striations. The interstices between feldspar grains are filled by fine-grained, soft, pale grey to greenish grey carbonate+/-sericite alteration masses. Weak to moderate, locally strong, patchy silicification, carbonatization, albitization, weak to moderate fluorite and albite in fractures and cracks.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
186.00	187.00		A0104793	**0.5110**	Au-ICP21	VO20094564
187.00	188.00		A0104794	**0.3890**	Au-ICP21	VO20094564
188.00	189.00		A0104795	**0.1470**	Au-ICP21	VO20094564
189.00	190.00		A0104796	**0.1250**	Au-ICP21	VO20094564
190.00	191.00		A0104797	0.0430	Au-ICP21	VO20094564
191.00	192.00		A0104798	0.0130	Au-ICP21	VO20094564
192.00	193.00		A0104799	**0.4780**	Au-ICP21	VO20094564
193.00	194.00		A0104801	**0.2360**	Au-ICP21	VO20094564
194.00	195.00		A0104802	**0.1760**	Au-ICP21	VO20094564
195.00	196.00		A0104803	**0.2070**	Au-ICP21	VO20094564

Increasing greyish patchy silicification from ~252 m towards the end of the unit.

XRF (coarse syenite): SiO2=40-43%, Al2O3=12-14%, K=3-6%, Ca=1-3%, Fe=0.5-1.5% Ba=500-1000 ppm, low or trace REEs (Ce +/La 100-250 ppm).
Magnetism: non-magnetic.

Structure: moderate to strong fracturing, less intense than in the previous unit, locally crackle brecciation. Common dissolution cavities along some fractures. Fractures are variably oriented. One distinct orientation of fractures filled by fluorite, albite, silica and carbonate is at 50-70CA.
199.5-208.3m – several creamy white Ca-carbonatite veins, often with fluorite, 1 to 5 cm wide, at angles ranging from 15 to 65CA.
208.3-210.2 m - strong fracturing, crackle brecciation with fluoirte, albite, silica and carbonate in cracks, stronger bleaching, silicification, sericite is gone. Dissolution cavities. At 209.4 m - a red mineral in fractures along with carbonate - XRF showed 2% REEs (Ce+La) and anomalous Mo (400 ppm).
210.2- 250 m - moderate to strong fracturing and localized crackle brecciation. Occasional carbonatite veins, frequent dissolution cavities. The core is very blocky, often broken to cm-dm pieces.
250.5-252 m - CNR
250-264.5 m - strong fracturing and crackle brecciation, dissolution cavities, stronger silicification as greyish patches; carbonate, silica, fluorite in fractures and cracks.

Mineralization: traces to 0.5-2% Py fine to med disseminated subhedral grains, aggregates in interstices and some fractures; 2-3% Py in silicified patches.

The lower contact is rather distinct by changes in grains size and colour but it is impossible to say whether it is gradational or sharp because the core is badly broken.
Additional notes (MS): on the cut core, the contact is rather sharp, at 50-55CA, possibly chilled.

200.15 200.30 I4Q

Carbonatite 65°

80% Ca-carbonatite veins at 60-65CA, fine-grained, creamy white, with dark purple fluorite.

200.50 201.70 I4Q

Carbonatite 20°

Three Ca-carbonatite veins at 15-22CA, 1-5 cm wide, fine-grained, creamy white to pinkish white, with dark purple fluorite.

196.00	197.00	A0104804	**0.3270**	Au-ICP21	VO20094564
197.00	198.00	A0104805	**0.3680**	Au-ICP21	VO20094564
198.00	199.00	A0104806	**0.1270**	Au-ICP21	VO20094564
199.00	200.00	A0104807	**0.7850**	Au-ICP21	VO20094564
200.00	201.00	A0104809	**0.3230**	Au-ICP21	VO20094564
201.00	202.00	A0104810	0.0980	Au-ICP21	VO20094564
202.00	203.00	A0104811	**0.6740**	Au-ICP21	VO20094564
203.00	204.00	A0104812	0.0180	Au-ICP21	VO20094564
204.00	205.00	A0104813	0.0720	Au-ICP21	VO20094564
205.00	206.00	A0104814	0.0250	Au-ICP21	VO20094564
206.00	207.00	A0104815	**0.1540**	Au-ICP21	VO20094564
207.00	208.00	A0104816	0.0890	Au-ICP21	VO20094564
208.00	209.00	A0104817	0.0570	Au-ICP21	VO20094564
209.00	210.00	A0104818	**0.1700**	Au-ICP21	VO20094564
210.00	211.00	A0104819	**0.4800**	Au-ICP21	VO20094564
211.00	212.00	A0104820	**0.4570**	Au-ICP21	VO20094564
212.00	213.00	A0104821	**0.2880**	Au-ICP21	VO20094564
213.00	214.00	A0104822	**0.7130**	Au-ICP21	VO20094564
214.00	215.00	A0104823	**0.3780**	Au-ICP21	VO20094564
215.00	216.00	A0104824	**0.6210**	Au-ICP21	VO20094564
216.00	217.00	A0104826	**0.9920**	Au-ICP21	VO20094564
217.00	218.00	A0104827	**0.7360**	Au-ICP21	VO20094564
218.00	219.00	A0104828	**0.9480**	Au-ICP21	VO20094564
219.00	220.00	A0104829	**1.1750**	Au-ICP21	VO20094564
220.00	221.00	A0104830	**0.1860**	Au-ICP21	VO20094564
221.00	222.00	A0104831	**0.2210**	Au-ICP21	VO20094564
222.00	223.00	A0104832	0.0330	Au-ICP21	VO20094564
223.00	224.00	A0104833	**0.1140**	Au-ICP21	VO20094564
224.00	225.00	A0104834	0.0360	Au-ICP21	VO20094564
225.00	226.00	A0104835	**0.2150**	Au-ICP21	VO20094564
226.00	227.00	A0104836	**0.1240**	Au-ICP21	VO20094564
227.00	228.00	A0104837	0.0530	Au-ICP21	VO20094564
228.00	229.00	A0104838	0.0330	Au-ICP21	VO20094564
229.00	230.00	A0104839	0.0670	Au-ICP21	VO20094564
230.00	231.00	A0104841	0.0710	Au-ICP21	VO20094564
231.00	232.00	A0104842	**0.2520**	Au-ICP21	VO20094564
232.00	233.00	A0104843	**0.5570**	Au-ICP21	VO20094564
233.00	234.00	A0104844	**1.1300**	Au-ICP21	VO20094564

From	To	Description
205.80	206.00	I4Q **Carbonatite 55°** 15 cm wide, Ca-carbonatite vein at 55CA, creamy white, fine-grained, contains fragments of he host rock and 0.5-1% Py.
208.10	208.30	I4Q **Carbonatite 60°** 10 cm wide, Ca-carbonatite vein at 55-60CA, fine-grained, creamy white with dark purple fluorite, 0.5% Py.
210.10	210.20	I4Q **Carbonatite 60°** 7 cm wide, foliated Ca-carbonatite vein at 55-65CA, fine to medium-grained, creamy white with dark purple fluorite. Fluorite occurs in cracks and foliation planes. 0.5% Py
224.50	224.60	I4Q **Carbonatite 40°** 4 cm wide, Ca-carbonatite vein at 40CA, fine-grained, creamy white.
186.00	208.50	SI; AB; FK; CB; SR; FL; HM **Silicification; Albitisation; Altération en feldspath potassique; Carbonatisa** Moderate patchy silicification, albitization, weak patchy K/Hem alteration, interstitial carbonatization and sericitization. Fluorite, carbonate, albite, silica in fractures and cracks.
208.50	210.20	SI; AB; CB; FL **Silicification; Albitisation; Carbonatisation; Fluoritisation** Strong patchy silicification and albitization, fluorite and carbonate in fractures, carbonatite-related minerals.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
234.00	235.00		A0104845	**1.5900**	Au-ICP21	VO20094564
235.00	236.00		A0104846	**1.2250**	Au-ICP21	VO20094564
236.00	237.00		A0104847	**0.8530**	Au-ICP21	VO20094564
237.00	238.00		A0104848	**0.4630**	Au-ICP21	VO20094564
238.00	239.00		A0104849	**0.4640**	Au-ICP21	VO20094564
239.00	240.00		A0104850	**0.5940**	Au-ICP21	VO20094564
240.00	241.00		A0104851	**1.0750**	Au-ICP21	VO20094564
241.00	242.00		A0104852	**0.6850**	Au-ICP21	VO20094564
242.00	243.00		A0104853	**0.3910**	Au-ICP21	VO20094564
243.00	244.00		A0104854	**1.3450**	Au-ICP21	VO20094564
244.00	245.00		A0104855	**0.2590**	Au-ICP21	VO20094564
245.00	246.00		A0104857	**1.0550**	Au-ICP21	VO20094564
246.00	247.00		A0104858	**0.2200**	Au-ICP21	VO20094564
247.00	248.00		A0104859	0.0540	Au-ICP21	VO20094564
248.00	249.00		A0104860	0.0090	Au-ICP21	VO20094564
249.00	250.00		A0104861	0.0130	Au-ICP21	VO20094564
250.00	252.00		A0104862	**0.1310**	Au-ICP21	VO20094564
252.00	253.00		A0104863	**3.0800**	Au-ICP21	VO20094564
253.00	254.00		A0104864	**0.5470**	Au-ICP21	VO20094564
254.00	255.00		A0104865	**0.2700**	Au-ICP21	VO20094564
255.00	256.00		A0104866	**0.3680**	Au-ICP21	VO20094564
256.00	257.00		A0104867	**0.3500**	Au-ICP21	VO20094564
257.00	258.00		A0104868	**1.8800**	Au-ICP21	VO20094564
258.00	259.00		A0104869	**2.1300**	Au-ICP21	VO20094564
259.00	260.00		A0104870	**0.8140**	Au-ICP21	VO20094564
260.00	261.00		A0104871	**1.3000**	Au-ICP21	VO20094564
261.00	262.00		A0104872	**2.4300**	Au-ICP21	VO20094564
262.00	263.00		A0104874	**0.8490**	Au-ICP21	VO20094564
263.00	264.00		A0104875	**0.2340**	Au-ICP21	VO20094564
264.00	265.00		A0104876	**0.2600**	Au-ICP21	VO20094564

264.50 294.00 I2D; GF; GM

Syénite; Grains fins; Grains moyens

Syenite, finer-grained, bleached.

The rock is light grey, beige to pink-beige with medium grey silicified patches and silicified halos along fractures. The matrix is fine to medium-grained with distinct white Fsp grains. It also contains fine black disseminated prismatic grains, probably titanite. The interval is hard to scratch, patchy carbonatized, patchy silicified and albitized. Locally weak pink patchy Hem/K-alteration. Fluorite in cracks and dissolition cavities.

XRF (fine-grained syenite): SiO2=38-42%, Al2O3=11-12%, K=2-4%, Ca=2-3%, Fe=0.5-1.5%, Ti=0.2-0.4%, low or trace REEs (Ce +/La 100-200 ppm). Magnetism: non-magnetic.

Structure: strong fracturing with greyish silica infilling and halos, locally crackle brecciation, frequent dissolution cavities. Fractures are irregular, variably oriented, often at low core angles, 5-30CA. Late fractures filled by white carbonate/calcite and oriented at high core angles, 45-75CA, crosscut low-angle fractures.

Mineralization: traces to 1% Py fine and lesser med-size, subhedral grains, disseminated, in interstices; 1-2% fine- to very fine-grained aggregates in fractures with grey silica infilling and silicified halos.

EOH

264.50 294.00 SI; AB; CB; FK; FL

Silicification; Albitisation; Carbonatisation; Altération en feldspath potassi

Moderate to strong patchy greyish silicification, patchy albitization, locally weak pink-beige K/Hem alteration (possibly remants of prior alteration). Weak to moderate carbonatization, fracture-filling, interstitial. Minor fluorite in cracks and dissolution cavities.

265.00	266.00	A0104877	0.0480	Au-ICP21	VO20094564
266.00	267.00	A0104878	0.0350	Au-ICP21	VO20094564
267.00	268.00	A0104879	**0.2430**	Au-ICP21	VO20094564
268.00	269.00	A0104880	**2.5100**	Au-ICP21	VO20094564
269.00	270.00	A0104881	**0.6470**	Au-ICP21	VO20094564
270.00	271.00	A0104882	**1.8600**	Au-ICP21	VO20094564
271.00	272.00	A0104883	0.0940	Au-ICP21	VO20094564
272.00	273.00	A0104884	0.0810	Au-ICP21	VO20094564
273.00	274.00	A0104885	0.0370	Au-ICP21	VO20094564
274.00	275.00	A0104886	0.0540	Au-ICP21	VO20094564
275.00	276.00	A0104887	0.0530	Au-ICP21	VO20094564
276.00	277.00	A0104889	0.0490	Au-ICP21	VO20094564
277.00	278.00	A0104890	0.0940	Au-ICP21	VO20094564
278.00	279.00	A0104891	**0.1440**	Au-ICP21	VO20094564
279.00	280.00	A0104892	0.0720	Au-ICP21	VO20094564
280.00	281.00	A0104893	0.0790	Au-ICP21	VO20094564
281.00	282.00	A0104894	0.0560	Au-ICP21	VO20094564
282.00	283.00	A0104895	0.0410	Au-ICP21	VO20094564
283.00	284.00	A0104896	0.0270	Au-ICP21	VO20094564
284.00	285.00	A0104897	0.0200	Au-ICP21	VO20094564
285.00	286.00	A0104898	0.0390	Au-ICP21	VO20094564
286.00	287.00	A0104899	0.0110	Au-ICP21	VO20094564
287.00	288.00	A0104900	0.0220	Au-ICP21	VO20094564
288.00	289.00	A0104901	0.0730	Au-ICP21	VO20094564
289.00	290.00	A0104902	**0.1360**	Au-ICP21	VO20094564
290.00	291.00	A0104903	0.0170	Au-ICP21	VO20094564
291.00	292.00	A0104905	0.0410	Au-ICP21	VO20094564
292.00	293.00	A0104906	0.0280	Au-ICP21	VO20094564
293.00	294.00	A0104907	0.0090	Au-ICP21	VO20094564

Downhole Survey

Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method
0.00	359.11	-57.50	Collar	30.00	0.42	-60.92	Champ Gyro	39.00	1.12	-60.92	Champ Gyro
54.00	359.89	-60.85	Champ Gyro	84.00	1.49	-60.43	Champ Gyro	114.00	0.83	-60.48	Champ Gyro
144.00	0.12	-60.23	Champ Gyro	174.00	1.07	-60.28	Champ Gyro	204.00	2.01	-60.13	Champ Gyro
234.00	0.27	-60.03	Champ Gyro	264.00	1.75	-59.95	Champ Gyro	279.00	1.48	-60.07	Champ Gyro

Drillhole Information

Easting: 705262.03
Northing: 5491558.81
Elevation: 283.42
Azimuth 360.00
Dip -57.00

Drilling Information

DrillCo: Roby
DrillID: R4
DrillStart: 21-Mar-20
DrillEnd: 24-Mar-20
Length (m): 123.00

Logging Information

LogBy: E. Stavre (OGQ #2144)
LogStart: 13-Apr-20
LogEnd: 16-Apr-20

Drillhole Summary

Intercepts >= 0.1 ppm

Hole_ID	From	To	Length	Au (ppm)
DO-20-282	45	46	1	0.447
DO-20-282	48	49	1	0.355
DO-20-282	52	53	1	0.191
DO-20-282	60	67	7	0.142
DO-20-282	73	74	1	0.43
DO-20-282	76	77	1	0.81
DO-20-282	79	85	6	0.128
DO-20-282	89	90	1	0.137
DO-20-282	94	103	9	0.503
DO-20-282	118	128	10	0.325

E. Stavre (OGQ #2144)
12-Jan-22

Lithology and Assay Results

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
0.00	**46.30**	M-T **Mort terrain** OB. Casing reported by NW drilling at 52.2m	123.00	123.70		V645479	**0.5470**	GE_FAI30	BBM21-08050
0.00	46.30	M-T **Mort terrain** OB. Casing reported by NW drilling at 52.2m							
123.00	124.50	I2D **Syénite** Syenite, strong fracturing, with strong CB being replaced by fenitization on the lower unit.Mineralized at 4-5% fg Py fracture filling, decreasing down apex. Lower contact at 10 deg tca.Magnetite							
125.00	125.55	I2D **Syénite** syenit, strong fractured with 20 deg tca Py filled fracturing. strong CB with strong fenitized patches to mafic fragment to digestion.Mineralized at 2-3% fg Py fracture filling to stringers.Lower contact at 30 deg tca.							
126.00	126.40	I2D **Syénite** Syenite pink, fractured, at 30 deg tca. 1-2% fg Py stringers to fracture filling.Magnetite							
127.00	123.00	I2D; V3B **Syénite; Basalte** <95% syenite with strong fenitized basalt digestion at 30 deg tca. microfractured, stringly fractured patches. MIneralized at 2-3% fg Py, magnetite							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description
46.30	**49.20**	I2D; PO **Syénite; Porphyrique** Syenite. NW reported casing, core appears solid and in NQ size. Mineralized Zone. Syenite light pink, coarse, porphyritic, RQD at ~55% blocky to somewhat broken,mm size feldspar with strong silicification intergranular. Microfracturing to stockwork, sil'd/Pyrite/Fl filled at 1-2% overall. 2-3 hairline sil'd/pyrite filled penetrating fracturing at high angle to core axis. Carbonate/Fe-carbonate/with hematite/silicified spotty with fluorite stringers to fracture filling. Sericitization weak to moderate spotty. Limonitization/Ankerite. Mineralized at 3-4% fine grain to blebs Py/Specularite. Lower contact gradational. 43.76m-44.3m sediment greywacke, dark green, very fine grain, oxidized syenite boulder?
46.70	47.30	S **Sédiments non divisé** Sediment graywacke, dark green, very fine grain,oxidized syenite boulder?
46.30	49.20	CB; SI; HM; FL; SR; LM **carbonatization; Silicification; Hématisation; Fluoritisation; Séricitisation;** Carbonate/Fe-carbonate/with hematite/Sil spotty with fluorite stringers to fractureure filling. Sericitization weak to moderate spotty. Limonitization/Ankerite.
46.30	49.20	FA **Fracturé(e)** microfracturing to stockwork, sil'd pyrite/fluorite filled at 1-2% overall. 2-3 hairline sil'd pyrite/ filled penetrating fracturing at high angle to-core-axis.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
46.30	47.00		V473776	0.0150	Au-ICP21	VO20089199
47.00	48.00		V473777	0.0810	Au-ICP21	VO20089199
48.00	49.00		V473778	**0.4470**	Au-ICP21	VO20089199

From	To	Description
49.20	**56.40**	I2D; PO **Syénite 20°; Porphyrique** Syenite. Pink, coarse, porphyritic, with <5% cm size feldspar laths to phenocryst, weakly fractured with sil/carbonate filled fracture at 55-60 degree to core axis, 10% blocky core. Carbonate feldspar with patchy sericite stringers to replacing, alternating intesity, dark silicification to intergranular patches. Moderate to stong potassic patches with moderate hematite patches to rims.50.3m-53.4m reddish to purpulish -increase silicification, K-Feldspar/carbonate patches, Fe-carbonate stringers to zoning. Mineralized up to 2-3% medium grain to fine grain disseminated to blebs around and in K-

From	To	Len	SampleID	Au (ppm)	Method	Certificate
49.00	50.00		V473779	0.0120	Au-ICP21	VO20089199
50.00	51.00		V473780	0.0200	Au-ICP21	VO20089199
51.00	52.00		V473781	**0.3550**	Au-ICP21	VO20089199
52.00	53.00		V473782	0.0270	Au-ICP21	VO20089199
53.00	54.00		V473783	0.0090	Au-ICP21	VO20089199
54.00	55.00		V473785	0.0590	Au-ICP21	VO20089199
55.00	56.00		V473786	**0.1910**	Au-ICP21	VO20089199
56.00	57.00		V473787	0.0140	Au-ICP21	VO20089199

Feldspar/silicified/carbonate/hematite

Lower contact is at 20 degree to core axis litho controlled.

49.20	56.40	CB; SR; SI; FK **carbonatization; Séricitisation; Silicification; Altération en feldspath potas** Carbonatized feldsapr with patchy sericite stringers to replacing, alternating intensity, dark silicification to intergranular patches. Moderate to stong potassic patches with moderate hem patches to rims.
46.30	52.20	PY04; HS **Pyrite 4%; Spécularite** Mineralized at 3-4% fine-grain to blebs pyrite/Specul.
52.20	56.40	HS03 **Spécularite 3%** Mineralized up to 2-3% medium-grain to fine-grain disseminated to blebs around and in k-feldspar/Sil/carbonate/Hem

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
56.40	**56.70**	V1; AP **volcanics contactanique felsique non divisé 35°; Aphanitique** One Dacite, beige, aphanitic, strongly sericite/carbonate altered, with quartz eye.Mineralized trace Py.Lower contact at 35 degree to core axis.							
56.40	56.70	CB; SR **carbonatization; Séricitisation** Strongly sericite/carbonate altered.							
56.40	56.70	HS00.5 **Spécularite 0.5%** mineralized trace pyrite							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description
56.70	**61.40**	I2D; PO **Syénite 65°; Porphyrique** Syenite. Beige, to light beige, medium grain syenite, porphyritic to altered.One shear at 54.16m-54.43m with mm size mylonite rims at 20-25 degree to core axis. Strong pervasive to intense carbonate/sericite alteration overprinting, Fe-carbonate/patchy mm size potassic alteration. Mineralization trace to 0.5% medium grain pyrite. Lower contact at 65 degree to core axis.
56.70	57.00	CB; SR; FK **carbonatization; Séricitisation; Altération en feldspath potassique** Strong pervasive to intense carbonate/sericite alteration overprinting, Fe-carbonate/patchy mm size potassic alter'n.
56.70	57.00	HS00.5 **Spécularite 0.5%** Mineralization trace to 0.5% medium-grain pyrite.
57.00	61.80	PY01 **Pyrite 1%** mineralized trace to 1% fine-grain pyrite disseminated
57.16	57.43	CS 25 **Cisaillé(e) 25°** one shear at 54.16m-54.43m with mm size Mylonite rims at 20-25 degree to-core-axis.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
57.00	58.00		V473788	0.0140	Au-ICP21	VO20089199
58.00	59.00		V473789	0.0200	Au-ICP21	VO20089199
59.00	60.00		V473790	0.0300	Au-ICP21	VO20089199
60.00	61.00		V473791	0.0350	Au-ICP21	VO20089199

From	To	Description
61.40	**74.40**	I2D; PO **Syénite 65°; Porphyrique** Syenite. Pinkish to beige, porphyritic to altered, coarse to medium to altered granulation with different syenite pulsations. Sericite/carbonate alteration intesity defined contacts with sulphide Mineralization following microfacturing.(see below for the break down of these units).Weakly late sparse carbonate/Pyrite/specularite fractured at 35 degree to core axis with erratic silica filled microfracturing when stronger dark silica/hematite content

From	To	Len	SampleID	Au (ppm)	Method	Certificate
61.00	62.00		V473792	0.0340	Au-ICP21	VO20089199
62.00	63.00		V473793	0.0480	Au-ICP21	VO20089199
63.00	64.00		V473794	**0.2270**	Au-ICP21	VO20089199
64.00	65.00		V473795	0.0290	Au-ICP21	VO20089199
65.00	66.00		V473796	**0.1690**	Au-ICP21	VO20089199
66.00	67.00		V473797	**0.1670**	Au-ICP21	VO20089199
67.00	68.00		V473798	0.0430	Au-ICP21	VO20089199
68.00	69.00		V473799	0.0690	Au-ICP21	VO20089199
69.00	70.00		V473801	**0.2870**	Au-ICP21	VO20089199

overall.Carbonate/sericite patches, somewhat sheared at 35 degree to core axis, with mm size coarser late siliceous syenite injections through.These sericitized deformed units are Mineralized trace to 1% fine grain pyrite disseminated. Late subhedral grained syenite subunits are microfractured with with darker strong carbonate/hematite/K-feldspar patches, with distinct limonitization zoning up to 5cm-15cm thick. Rare blue spotty amphibole with more denser dark green actinolite around contacts.(58.8m-59.5m, 60.4m-60.7m, 63m-63.4m, 65.3m-66.98m, 67.4m-68.95m fractured Mineralized syenite 67.6m-67.7m.

Mineralized at 3-4% medium grain to fine grain pyrite disseminated.

Lower contact at 65 degree to core axis.Amphibole.58.8m-59.5m
Mineralized at 10% fine grain to very fine grain pyrite disseminated.

61.80 62.50 I2D; PO

Syénite; Porphyrique

Fractured Mineralized syenite.

63.40 63.70 I2D; PO

Syénite; Porphyrique

Fractured Mineralized syenite.

66.00 66.40 I2D; PO

Syénite; Porphyrique

Fractured Mineralized syenite.

68.30 69.98 I2D; PO

Syénite; Porphyrique

Fractured Mineralized syenite.

70.40 71.95 I2D; PO

Syénite; Porphyrique

Fractured Mineralized syenite.

57.00 74.40 CB; SR; SI; HM

carbonatization; Séricitisation; Silicification; Hématisation

Sericite/carbonate alteration intensity defined contacts with sulphide mineralization following microfracturing.(see bleow for the break down of these units). Weakly late sparse carbonate/pyrite/specul fractured at 35 deg tca with erratic silica filled m

61.80 62.50 PY10

Pyrite 10%

mineralized at 10% fine-grain to very-fine-grain pyrite disseminated

70.00	71.00	V473802	0.0610	Au-ICP21	VO20089199
71.00	72.00	V473803	0.0440	Au-ICP21	VO20089199
72.00	73.00	V473804	0.0170	Au-ICP21	VO20089199
73.00	74.00	V473805	0.0250	Au-ICP21	VO20089199

62.50	70.60	PY01 **Pyrite 1%** mineralized trace to 1% fine-grain pyrite disseminated
70.60	70.70	PY04 **Pyrite 4%** 67.6m-67.7m mineralized at 3-4% medium-grain to fine-grain pyrite disseminated.
70.70	74.60	PY01 **Pyrite 1%** mineralized trace to 1% fine-grain pyrite disseminated ,
61.80	62.50	FA **Fracturé(e)** fractured mineralized syenite.
63.40	63.70	FA **Fracturé(e)** fractured mineralized syenite.
66.00	66.40	FA **Fracturé(e)** fractured mineralized syenite.
68.30	69.98	FA **Fracturé(e)** fractured mineralized syenite.
70.40	71.95	FA **Fracturé(e)** fractured mineralized syenite.

From	To	Description
74.40	**75.73**	I2D; PO **Syénite; Porphyrique** Silicified syenite. Carbonate bleached patches, porphyritic, medium to altered aphanitic, weakly fractured cm size semipervasive silicified feldsp texture.One micro breccia at 70.7m-70.8m and one 2 cm mylonite band at 60 degree to core axis, 71.4m.71.6m-71.9m one basalt digestioned syenite sheared at 50 degree to core axis, boudinaged mafic fragments to mylontic mm size bands, strong fenitization with up to 3% fine grain to very fine grain pyrite disseminated.Strong carbonate with Fe-carbonate overprinting to alternating. Dark reddish K spar/hematite alteration. Semipervasive leucoxene noted to the lower contact. Mineralized at trace to 1% locally.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
74.00	75.00		V473806	0.0510	Au-ICP21	VO20089199
75.00	76.00		V473807	0.0840	Au-ICP21	VO20089199

Lower contact at 40 degree to core axis.

74.60 74.90 V3B (I2D); AP

Basalte avec 5 à 25% de syénite 50°; Aphanitique

One basalt digested syenite sheared at 50 degree to-core-axis,boudinaged mafic fragments to mylontic mm size bands, strong fenitization with up to 3% fine-grain to fine-grain pyrite disseminated.

74.60 74.90 HM; FK; CB

Hématisation; Altération en feldspath potassique; carbonatization

One basalt digestioned syenite, strong fenitization.

74.90 75.73 CB; HM; LX; SI

carbonatization; Hématisation; Leucoxene; Silicification

Strong carbonatization with Fe-Carb overprinting to alternating. Dk reddish K spar/hematite alt'n. Semipervasive leucoxene noted to the lower contact.

74.60 74.90 PY03

Pyrite 3%

up to 3% fine-grain to very-fine-grain pyrite disseminated

74.90 75.73 PY01

Pyrite 1%

Mineralized at trace to 1% locally. LC at 40 deg tca.

74.60 74.90 CS 50

Cisaillé(e) 50°

syenite sheared at 50 degree to-core-axis, boudinaged mafic fragments to mylonitic mm size bands.

From	To	Description
75.73	**78.00**	I2D V3B; AP **Syénite avec 5 à 25% de basalte 40°; Aphanitique** Mineralized Zone. Syenite with 10% digested basalt.Dark green to dark reddish, porphyritic to aphanic. Sheared unit at 25-30 degree to core axis with green carbonate/chlorite/pyrite filled S2 fractures at 25 degree to core axis and carbonate filled en -echellon to tension gashes S3 at 85-90 degree to core axis.Strongly fenitized with strong silicification mm size bands(protomylonite?) alternating. Mineralized at 3-4% medium grain to fine grain pyrite, Cpy, locally shear

From	To	Len	SampleID	Au (ppm)	Method	Certificate
76.00	77.00		V473809	**0.4300**	Au-ICP21	VO20089199
77.00	78.00		V473810	0.0040	Au-ICP21	VO20089199

controlled otherwise up to 1% medium grain to fine grain pyrite disseminated.

Lower contact at 40 degree to core axis

75.73 76.56 CC; CB; HM; FK

Calcitisation; carbonatization; Hématisation; Altération en feldspath pota

Strongly fenitized with strong calcification mm size bands (protomylonite?) alternating.

75.73 78.00 PY03

Pyrite 3%

Mineralized at 3-4% medium-grainto fine-grain pyrite, Chalcopyrite, locally shear controlled ohterwise up to 1% medium-grain to fine-grain pyrite diss.

75.73 78.00 CS 25

Cisaillé(e) 25°

sheared unit at 25-30 degree to-core-axis with green carbonate/chlorite/pyrite filled S2 fractures at 25 degree to-core-axis and calcite filled en-echellon to tension gashes S3 at 85-90 degree to-core-axis.

From	To	Description
78.00	**97.00**	I2D V3B; AP
		Syénite avec 5 à 25% de basalte 25°; Aphanitique
		Syenite with <5% basalt digestion to cm size subunit to xenos, dark reddish, aphanitic.Syenite subunits to late injections at :(78.25m-79.7m, 83.44m-83.6m, 84m-84.36m, 84.7m-84.86m, 88.3m-88.5m, 89.26~90m 91.5m-92.37m, 94.1m-94.3m).<20% carbonate/hematite filled fractures at 25 degree to core axis overall, with <10% shearing at 10-20 degree to core axis. 83.9m-84.9m flat to 10 degree to core axis syenite with <10% basalt digestion, porphyritic, <10% carbonate/specul filled fracures at 25 degree to core axis.Strongly fenitized, Mineralized trace to 1% fine grain pyrite strings. 89.6m-89.8m syenite with <10% baslat digestion, sheared at 40 degree to core axis, strongly fenitized with up to 1% fine grain pyrite stringers.93m-94.3m sheared syenite with<25% basalt digestions flat lying unit, sheared at 20 degree to core axis, with 20 degree to core axis carbonate/pyrite filled fracturing, strong to intense fenitization, with up to 3-4% fine grain to very fine grain disseminated to pyrite stringers to fracture filling.Overall strong fenitization; carbonatisation/hematite/potassic alteration alternating intesity with moderate to strong pervasive to biotite/chlorite/amphibole replacing bands. Mineralized at 3-4% medium grainto fine grain Py, locally shear controlled otherwise up to 1% medium grain to fine grain pyrite disseminated.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
78.00	79.00		V473811	0.0390	Au-ICP21	VO20089199
79.00	80.00		V473812	**0.8100**	Au-ICP21	VO20089199
80.00	81.00		V473813	0.0900	Au-ICP21	VO20089199
81.00	82.00		V473814	0.0450	Au-ICP21	VO20089199
82.00	83.00		V473815	**0.3870**	Au-ICP21	VO20089199
83.00	84.00		V473816	**0.1360**	Au-ICP21	VO20089199
84.00	85.00		V473817	0.0110	Au-ICP21	VO20089199
85.00	86.00		V473818	0.0060	Au-ICP21	VO20089199
86.00	87.00		V473819	**0.1060**	Au-ICP21	VO20089199
87.00	88.00		V473820	**0.1210**	Au-ICP21	VO20089199
88.00	89.00		V473821	0.0130	Au-ICP21	VO20089199
89.00	90.00		V473822	0.0090	Au-ICP21	VO20089199
90.00	91.00		V473823	0.0210	Au-ICP21	VO20089199
91.00	92.00		V473824	0.0110	Au-ICP21	VO20094559
92.00	93.00		V473826	**0.1370**	Au-ICP21	VO20094559
93.00	94.00		V473827	0.0040	Au-ICP21	VO20094559
94.00	95.00		V473828	0.0120	Au-ICP21	VO20094559
95.00	96.00		V473829	0.0090	Au-ICP21	VO20094559
96.00	97.00		V473830	0.0070	Au-ICP21	VO20094559

82.25	82.70	I2D; PO **Syénite; Porphyrique** Syenite subunits to late injections
87.00	87.36	I2D; PO **Syénite; Porphyrique** Syenite subunits to late injections
87.40	87.60	I2D; PO **Syénite; Porphyrique** Syenite subunits to late injections
87.70	87.86	I2D; PO **Syénite; Porphyrique** Syenite subunits to late injections
91.30	91.50	I2D; PO **Syénite; Porphyrique** Syenite subunits to late injections
92.26	93.00	I2D; PO **Syénite; Porphyrique** Syenite subunits to late injections
94.50	95.37	I2D; PO **Syénite; Porphyrique** Syenite subunits to late injections
76.56	97.00	CB; HM; FK; BO **carbonatization; Hématisation; Altération en feldspath potassique; Biotiti** Overall strong fenitiation; carbonatization/hematite/potassic alteration alternatiing intensity with moderate to string pervasive to biotite/chlorite/amphibole replacing bands.
78.00	93.00	PY01 **Pyrite 1%** up to 1% medium-grain to fine-grain pyrite disseminated
78.00	97.00	FA 25 **Fracturé(e) 25°** <20% carbonate/hematite filled fractures at 25 degree to-core-axis overall, with <10% shearing at 10-20 degree to-core-axis.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

97.00 **105.30** V3B AP

Basalte 40°; Aphanitique

Mineralized Zone:

Medium grain basalt, to basalt with syenite fragments to subunits; (97.46m-97.56m, 98.1m-98.4m, 99.2m-99.7m, 101.15m-101.7m).

Dark grey to dark red, apahinitic, preferred fabric orientations at 35-40 degree to core axis,Patchy magnetic,~<10% S2 carbonate/pyrite filled fractured dm spaced at 30 degree to core axis, with <2-3% contactte ,<1cm long en-echellon S3 at 85 to 90 degree to core axis.

Contact fault at 102.3m at 40 degree to core axis.Strong fenitiaztion with biotite replacing zoning alteration, carbonate/moderate replacing silicification patches to haloes around contacts ,possible accicular act'te around contacts, elevated REE's to maybe small mm size intrusives? With strong K-Feldspar/hematite.

Mineralized up to 5% fine grain to very fine grain pyrite disseminated, to 2-3% pyrite stringers to(mostly S2) fracture filling.Lower contact is hairlne fault defined at 40 degree to core axis.

97.10 97.30 I2D; PO

Syénite; Porphyrique

Syenite subunits to late injections

100.46 100.56 I2D; PO

Syénite; Porphyrique

Syenite subunits to late injections

101.10 101.40 I2D; PO

Syénite; Porphyrique

Syenite subunits to late injections

102.20 102.70 I2D; PO

Syénite; Porphyrique

Syenite subunits to late injections

104.15 104.70 I2D; PO

Syénite; Porphyrique

Syenite fragments to subunits.

97.30 105.30 CB; HM; BO; FK

carbonatization; Hématisation; Biotitisation; Altération en feldspath pota

Strong fenitiaztion with Bio replacing zoning alteration, carbonate/moderate replacing silicification patches to haloes around

97.00	98.00	V473831	**0.3600**	Au-ICP21	VO20094559
98.00	99.00	V473832	0.0500	Au-ICP21	VO20094559
99.00	100.00	V473833	**0.4160**	Au-ICP21	VO20094559
100.00	101.00	V473834	**0.1790**	Au-ICP21	VO20094559
101.00	102.00	V473835	**0.4150**	Au-ICP21	VO20094559
102.00	103.00	V473836	**0.2990**	Au-ICP21	VO20094559
103.00	104.00	V473837	0.0180	Au-ICP21	VO20094559
104.00	105.00	V473838	**1.5700**	Au-ICP21	VO20094559

contacts ,possible accicular act'te around contacts, elevated REE's to maybe small mm size intrusives? With strong k-feldspar/he

97.00 97.30 PY03

Pyrite 3%

up to 3-4% fine-grain to very-fine-grain disseminated to pyrite stringers to fracture filling.

97.30 105.30 PY03

Pyrite 3%

Mineralized up to 5% fine-grain to very-fine-grain pyrite disseminated, to 2-3% pyrite stringers to(mostly S2) fracture filling.

97.30 105.30 FA 30

Fracturé(e) 30°

~<10% S2 carbonate/pyrite filled fractured dm spaced at 30 degree to-core-axis, with <2-3% calcte ,<1cm long en-echellon S3 at 85 to 90 degree to-core-axis.Contact fault at 102.3m at 40 degree to-core-axis.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
105.30	**106.40**	I2D V3B PO **Syénite avec 25 à 50% de basalte; Porphyrique** Mineralized ZONE. Strong silicified syenite with <40% basalt digestion Reddish to pinkish, porphyritic with altered apahnitic mafic digested baslat.Fracture Zone with intense carbonate/Pyrite/specularite filled microfractures to stockwork.Strong to intense fenitization with alternating silicifaction intesity. Mineralized up to 25% medium grain to fine grain pyrite disseminated to pyrite fracture fillg. Lower contact is graditional.	105.00	106.00		V473839	**1.2200**	Au-ICP21	VO20094559

105.30 106.40 CB; HM; FK; SI

carbonatization; Hématisation; Altération en feldspath potassique; Silicifi

Strong to intense fenitization with alternating silicification intensity.

105.30 105.40 PY25

Pyrite 25%

Minerlaized up to 25% medium-grain to fine-grain pyrite disseminated to pyrite fracture filling.

105.30 106.40 FA

Fracturé(e)

Fracture Zone with intense carbonate/pyrite/specularite filled microfractures to stockwork.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
106.40	**108.40**	I2D V3B	106.00	107.00		V473841	0.0770	Au-ICP21	VO20094559
		Syénite avec 25 à 50% de basalte 30°	107.00	108.00		V473842	0.0570	Au-ICP21	VO20094559
		Silicified syenite with <40% basalt digestion.Reddish to pinkish, porphyritic with altered aphanitic mafic digested baslat. <25% carbonate/Specularite with rare pyrite filled S2 fracturing at 303-5 degree to core axis, with carbonate tension gashes to few dm spaced en-echellon S3 fracturing at 70-85 degree to core axis.Strong fenitization with strong silicification patches replacing. Few biotite/Chlorite patches were mafic (103.5m and 103.9m). Mineralized up to 3% fine grain to very fine grain pyrite disseminated to fracture filling (S2 only).Lower contact is 30 degree to core axis.						
		106.40 108.40 SI; CB; HM; BO							
		Silicification; carbonatization; Hématisation; Biotitisation							
		Strong fenitization with strong silicification patches replacing. few Bio/chlorite patches were mafic(103.5m and 103.9m).							
		105.40 108.40 PY03							
		Pyrite 3%							
		Mineralized up to 3% fine-grain to very-fine-grain pyrite disseminated to fracture filling (S2 only)							
		106.40 108.40 FA 35							
		Fracturé(e) 35°							
		<25% carbonate/Specularite with rare pyrite filled S2 fracturing at 30-35 degree to-core-axis, with calcite tension gashes to few dm spaced en-echellon S3 fracturing at 70-85 degree to-core-axis							

| From | To | Description | From | To | Len | SampleID | Au (ppm) | Method | Certificate |

108.40 116.90 V3B (I2D)

Basalte avec 5 à 25% de syénite

Basalt with <25% syenite injection to fragments.Dark green to dark reddish, aphanitic with porphyritic texture where felsic.~<10% late carbonate filled fractured at 55-60 degree to core axis cross cutting the lithology. <10% carbonate filled S2 fracturing at 40 degree to core axis with 35-40 degree to core axis S3 <2cm size en-echellon S3 overall.

108.16m-108.2m one carbonate/albite vein at 60 degree to core axis.Overall carbonate with semipervasive biotite/Chl patches around contacts with moderate hematite. K-feldspar bands to patches stronger when around felsics. Silicification alteranting intesity.

105.4m-105.9m fractured silicified fenitized digested basalt syenite with <3% fine grain pyrite.~45%syenite injections at 106.85m-107.1m fractured with average S2 at 35-40 degree to core axis, erratic S3, with strong carbonatisation, fenitized unit(patches) with strong dark brown secondary chlorite/amphibole blebs to small semipervasive areas. Mineralized at 2% fine grain pyrite/chlorite/amph overprinting, to pyrite stringers, fracture filling.

107.3m-107.9m possible mafic variolithic flow with cm size cacite replaced varioles, subrounded, to possible pillowed (mm size carbonate selvages terminating fracturing). Fenitized with carbonate overprint. fractured at apprix 40 degree to core axis with strong carbonate/orange apatite matrix?.Mineralized at 1-2% pyrite blebs varioles controlled.

111.2m-111.5m one syenite injection at 30 degree to core axis, microfractured, fenitized with strong amphibole/chlorite blebs. Mineralized at 1-2% pyrite blebs overprint(amph/chl).

111.6m-112m one green , aphanitic, sheared mafic variolithic unit at 35 degree to core axis, carbonate filled subrounded verioles, with 2-3m syenite injection enveope concirdant. Fenitized with 3-4% pyrite stringers to fracture filling shear controlled.

112.2m-112.5m syenite with <40% digested basalt fenitized with late replacing silicification. Mineralized at 9-10% pyrite blebs to fine grain doss'd, pyrite.

112.5m-113.9m increase leucoxene.

113.2m-113.46m syenite coarse, porphyritic, microfractured, fenitized with late leucoxene overprinting. few patches of bluish amph replacing. Mineralized at 6-7% fine grain to very fine grain pyrite disseminated.

107.9m-110.7m carbonate dominant with patches of fenitization(109.3m-

108.00	109.00	V473843	0.0410	Au-ICP21	VO20094559
109.00	110.00	V473844	0.0070	Au-ICP21	VO20094559
110.00	111.00	V473845	0.0030	Au-ICP21	VO20094559
111.00	112.00	V473846	0.0050	Au-ICP21	VO20094559
112.00	113.00	V473847	0.0030	Au-ICP21	VO20094559
113.00	114.00	V473848	0.0030	Au-ICP21	VO20094559
114.00	115.00	V473849	0.0060	Au-ICP21	VO20094559
115.00	116.00	V473850	0.0100	Au-ICP21	VO20094559
116.00	117.00	V473851	0.0380	Au-ICP21	VO20094559

109.7m, 111.2m-111.5m, 113.2m-113.45m, 114.3m-114.6m).

108.2m-109m semipervasive /chlorite/amphibole.Mineralized 1% overall.Lower contact graditional

108.40	117.30	BO; CB; HM; SI; LX	
		Biotitisation; carbonatization; Hématisation; Silicification; Leucoxene	
		Overall carbonate with semipervasive Bio/chlorite patches around contacts with moderate hematite. k-feldspar bands to patches stronger when around felsics. Silicification alteranting intensity.	
108.40	114.60	PY01	
		Pyrite 1%	
		Mineralized 1% overall.	
114.60	115.20	PY04	
		Pyrite 4%	
		3-4% pyrite stringers to fracture filling shear controlled.	
115.20	115.50	PY10	
		Pyrite 10%	
		Mineralized at 9-10% pyrite blebs to fine-grain disseminated, pyrite	
115.50	116.20	PY01	
		Pyrite 1%	
		Trace pyrite to 1% fine-grain pyrite	
116.20	116.46	PY07	
		Pyrite 7%	
		Minerlaized at 6-7% fine-grain to very-fine-grain pyrite disseminated.	
116.46	117.30	PY01	
		Pyrite 1%	
		Trace to 1% pyrite	
108.40	116.90	FA	55
		Fracturé(e) 55°	
		~<10% late carbonate filled fractured at 55-60 degree to-core-axis cross cutting the lithology. <10% calcite filled S2 fracturing at 40 degree to-core-axis with 35-40 degree to-core-axis S3 <2cm size en-echellon S3 overall.	

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

116.90 **119.65** V3F; AP

Basalte hyper-magneticnésien 40°; Aphanitique

medium grain Basalt, dark reddish dark brown, aphanitic , with <20% syenite injections,114.3m-114.6m syenite coarse, porphyritic, at 30 degree to core axis, porassic altered K-feldspar patches, trace to 1% pyrite,115m-115.6m one flat lying fractured silicified syenite at 15-20 degree to core axis, with carbonate/Pyrite/specularite filled S3 at 15 degree to core axis flat S3.Strngly fenitized with intense hematite patches. Mineralized at 15% medium grain to very fine grain pyrite disseminated , Chalcopyrite with sphalerite.

116m-116.2m fully basalt digestion with 5% fine grain pyrite disseminated to fracture filling116m-116.m decrease of biotite/chlorite, carbonate.lower contact is at 40 degree to core axis

117.30 117.60 I2D; PO

Syénite 30°; Porphyrique

Syenite coarse, porphyric, at 30 degree to-core-axis, potassic altered K patches, trace to 1% pyrite.

118.00 118.60 I2D; PO

Syénite 20°; Porphyrique

One flat lying fractured silicified syenite at 15-20 degree to-core-axis, with carbonate/pyrite/specularite filled S3 at 15 degree to-core-axis flat S3. Strngly fenitized with intense hematitization patches. Mineralized at 15% medium-grain to fine-grain pyrite disseminated, Cpyrite with sphalerite.

119.00 119.20 V3B

Basalte

116m-116.2m fully basalt digestion with 5% fine-grain pyrite disseminated to fracture filling.

117.30 118.00 FK

Altération en feldspath potassique

Syenite coarse, porphyritic, at 30 deg tca, potassic altered K patches, trace to 1% pyrite.

118.00 118.60 SI; CB; FK; HM

Silicification; carbonatization; Altération en feldspath potassique; Hémati

Strongly fenitized with intense hematitization patches.

117.30 118.00 PY01

Pyrite 1%

trace to 1% pyrite

117.00	118.00	V473852	0.0120	Au-ICP21	VO20094559
118.00	119.00	V473853	**0.5030**	Au-ICP21	VO20094559
119.00	120.00	V473854	**0.4530**	Au-ICP21	VO20094559

118.00	118.60	PY15; CP; SP	
		Pyrite 15%; Chalcopyrite; Sphalérite	
		Mineralized at 15% medium-grain to very-fine-grain pyrite disseminated, Chalcopyrite with sphalerite	
118.60	119.00	PY01	
		Pyrite 1%	
		mineralized trace to 1% fine-grain pyrite disseminated	
119.00	119.65	PY05	
		Pyrite 5%	
		5% fine-grain pyrite disseminated to fracture filling	
118.00	118.60	FA	20
		Fracturé(e) 20°	
		one flat lying fractured silicified syenite at 15-20 degree to-core-axis, with carbonate/pyrite/specularite filled S3 at 15 degree to-core-axis flat S3.	
119.00	119.20	FA	
		Fracturé(e)	
		fully basalt digestion with 5% fine-grain pyrite disseminated to fract filling.	

From	To	Description
119.65	**123.00**	I2D; PO
		Syénite 15°; Porphyrique
		Monzonite-syenite, coarse, porphyritic with <40% mm size plag twinning, equigranular to euhedral, microfractured.Micro fracture Zone with <10% late carbonate/Pyrite/Specularite filled fractures, potassic alteration with matrix to intergranular silicification with up to 10% medium grain to fine grain pyrite silica overprint to fracture filling.lower contact is irregular to 10 degree to core axis.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
120.00	121.00		V473855	**0.4150**	Au-ICP21	VO20094559
121.00	122.00		V473857	**0.3170**	Au-ICP21	VO20094559
122.00	123.00		V473858	**0.5620**	Au-ICP21	VO20094559

119.65	123.00	FK; SI	
		Altération en feldspath potassique; Silicification	
		Potassic alter. with matrix to intergranular silicification.	
119.65	122.40	PY10	
		Pyrite 10%	
		up to 10% medium-grain to fine-grain pyrite silica overprint to fracture filling.	
119.65	123.00	FA	
		Fracturé(e)	
		Micro Fracture Zone with <10% late carbonate/pyrite/Specularite filled fractures.	

Downhole Survey

Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method
0.00	360.00	-57.00	Collar	60.00	359.10	-61.59	Reflex EZ-Gyro	69.00	358.63	-61.00	Reflex EZ-Gyro
84.00	359.50	-60.00	Reflex EZ-Gyro	99.00	359.50	-60.00	Reflex EZ-Gyro				

Drillhole Information

Easting: 705953.03
Northing: 5491063.51
Elevation: 286.68
Azimuth 331.90
Dip -55.00

Drilling Information

DrillCo: RJLL
DrillID: FSD002
DrillStart: 23-Mar-20
DrillEnd: 26-Mar-20
Length (m): 300.00

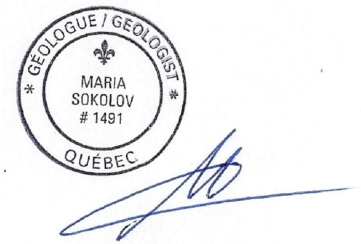
Logging Information

LogBy: M. Sokolov (OGQ #1491)
LogStart: 19-Apr-20
LogEnd: 24-Apr-20

Drillhole Summary

Intercepts >= 0.1 ppm

Hole_ID	From	To	Length	Au (ppm)
DO-20-283	42	43	1	0.411
DO-20-283	50	55.5	5.5	0.221
DO-20-283	58.5	64	5.5	0.159
DO-20-283	74	85	11	0.126
DO-20-283	89	90.85	1.85	0.406
DO-20-283	93	94	1	0.125
DO-20-283	100	101	1	0.226
DO-20-283	105	129	24	0.333
DO-20-283	133.5	141	7.5	0.117
DO-20-283	155	169	14	0.436
DO-20-283	177	183	6	0.342
DO-20-283	188	215	27	1.285
DO-20-283	219	226	7	0.142
DO-20-283	233	234	1	0.115
DO-20-283	239	241	2	0.809
DO-20-283	252	254	2	0.708
DO-20-283	273	275	2	0.376
DO-20-283	289	300	11	0.719



M. Sokolov (OGQ #1491)

12-Jan-22

Lithology and Assay Results

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
0.00	**42.00**	M-T **Mort terrain** Casing, overburden.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
42.00	**46.00**	V3B I2D **Basalte avec 25 à 50% de syénite** Highly altered, fenitized Basalt (or Syenite?). The rock is mauve to grey-red, mottled, fine to medium-grained with distinct rhomboidal grey-white carbonate grains in red fine-grained to aphanitic groundmass. There are frequent anhedral, beige-grey, altered grains (possibly mafics, magnetite) - this type of alteration looks much like leucoxene but could be something else (maybe carbonatite-related). Moderate to strong semi-pervasive red Hem alteration, greyish white carbonate in fractures. Locally minor epidote. Magnetism: mod-str magnetic, abundant fine disseminated Mgt, fine-grained aggregates in fractures. Structure: strongly fractured and sheared, weakly foliated at 5 to 45CA with foliation defined by grey Carb+Mgt fractures and sheared fabrics. A stockwork of numerous white, pink and greyish white, variably oriented, carbonate-filled fractures. 43.2-43.6 m - a group of several en-echelon mm gashes filled by white carbonate, oriented at 10-17CA. They crosscut fractures filled by black Mgt and sheared fabrics, which are oriented at 15-20CA (opposite direction). Mineralization: 42-44.5 m – 3-7% Py fine to medium-grained aggregates and disseminated grains; 44.5-46.m – 0.5-2% fine Py diss and aggregates. 42-43 m and 44.7-45 m- several syenitic fracture-filling injections, red with white Plg grains, mm-cm wide, often oriented at 50CA; crosscut mineralized Py+Mgt fractures.	42.00	43.00		A0103815	**0.4110**	Au-ICP21	VO20089351
			43.00	44.00		A0103816	0.0390	Au-ICP21	VO20089351
			44.00	45.00		A0103817	0.0740	Au-ICP21	VO20089351
			45.00	46.00		A0103818	0.0060	Au-ICP21	VO20089351

The lower contact is arbitrary.

42.00 46.00 CB; FK; HM; MG; LX

Carbonatisation; Altération en feldspath potassique; Hématisation; Magn

Strong carbonatization (disseminated grains, fracture-filling, interstitial). Strong semi-pervasive red and specular Hem. Weak to moderate disseminated leucoxene replacing Mgt and possibly mafic minerals. Abundant fine disseminated Mgt and fine-grained aggregates in fractures. Locally minor epidote.

42.00 44.50 PY05

Pyrite 5%

3-7% Py fine to medium-grained aggregates and disseminated grains.

44.50 46.00 PY01

Pyrite 1%

Traces to 0.5-1% Py fine-grained aggregates, diss grains.

42.00 46.00 CS; FA 25

Cisaillé(e) 25°; Fracturé(e)

Strongly fractured and sheared interval, weakly foliated at 5 to 45CA with foliation defined by grey Carb+Mgt fractures and sheared fabrics. A stockwork of numerous white, pink and greyish white, variably oriented, carbonate-filled fractures.

At 43.2-43.6 m - a group of several en-echelon mm gashes filled by white carbonate, oriented at 10-17CA. They crosscut fractures filled by black Mgt and sheared fabrics, which are oriented at 15-20CA (opposite direction).

From	To	Description
46.00	**55.50**	V3B I2D **Basalte avec 25 à 50% de syénite** Highly altered, fenitized Basalt with 25-35% Syenite injections. Mottled, greenish beige, pink-red, grey Basalt, strongly altered, strongly carbonatized, patchy hematitized, mostly fine-grained. At 47.5 to 50 m, the rock is medium-grained with a spotted appearance (resemble ophitic textures). Minor disseminated leucoxene, Basalt is crosscut by 25-35% pink-orange-red syenite injections, irregular, variably oriented, mm to 1-2 dm wide, aphanitic to med-grained, with visible white Plg crystals and fine black grains of Mgt partially or completely replaced by hematite. Magnetism: patchy magnetic due to localized fine disseminated Mgt. Structure: strongly fractured, in parts brecciated and cemented by syenite.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
46.00	47.00		A0103819	0.0390	Au-ICP21	VO20089351
47.00	48.00		A0103820	0.0410	Au-ICP21	VO20089351
48.00	49.00		A0103821	0.0090	Au-ICP21	VO20089351
49.00	50.00		A0103822	0.0740	Au-ICP21	VO20089351
50.00	51.00		A0103823	**0.1020**	Au-ICP21	VO20089351
51.00	52.00		A0103824	**0.2640**	Au-ICP21	VO20089351
52.00	53.00		A0103826	**0.2060**	Au-ICP21	VO20089351
53.00	54.00		A0103827	**0.2140**	Au-ICP21	VO20089351
54.00	54.50		A0103828	0.0370	Au-ICP21	VO20089351
54.50	55.50		A0103829	**0.4100**	Au-ICP21	VO20089351

Locally weakly-developed foliation at 30-35CA.

Mineralization: concentrations of fine-grained Py vary from traces to 5%.At 54.55-55.5 m - 5-10% fine to medium-grained Py, fine diss grains.

The lower contact is arbitrary.

47.50 50.00 V3B

Basalte

Medium-grained Basalt with a spotted appearance which resemble ophitic textures: green (chloritized?) anhedral grains surrounded by finer-grained, carbonatized Fsp groundmass.
The upper contact is somewhat distinct, sehared at 30CA. The lower contact is not obvious.

46.00 55.50 CB; HM; FK; MG; CL; LX

Carbonatisation; Hématisation; Altération en feldspath potassique; Magn

Strong patchy to pervasive carbonatization in both basalt and syenite (mild fizzing reaction to HCl test), carbonate in fractures. Weak remnant chlorite in medium-grained parts. Minor fine disseminated grains of Mgt or pseudomorphs Hem after Mgt in basalt and syenite. Minor disseminated leucoxene.

46.00 54.50 PY02

Pyrite 2%

Irregularly distributed Py as fine-grained aggregates in fractures, disseminated grains, in interstices within medium-grained syenite injections. Concentrations vary from traces to 5%.

54.50 55.50 PY07

Pyrite 7%

5-10% Py fine diss grains and fine to med-grained aggregates.

46.00 55.50 FA; CS 35

Fracturé(e); Cisaillé(e) 35°

Strongly fractured, in parts brecciated and cemented by syenite. Locally weakly-developed foliation at 30-35CA.
Blocky, broken core.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

From	To	Description
55.50	**59.50**	V3B (I2D) **Basalte avec 5 à 25% de syénite** Highly altered, fenitized Basalt (Syenite?). Mauve-grey, fine to medium-grained with small, disseminated greyish wihite Carb crystals. Strong pervasive Hem and Carb alteration, Carb in fractures, minor disseminated leucoxene. Some parts are crosscut by pink-red syenite injections, mm to dm wide, aphanitic to med-grained, irregular and fracture-filling, overall <5%. Magnetism: weakly to moderately magnetic; non-magnetic from ~58.8 m; fine Mgt grains disseminated in the matrix and in fractures. Structure: strongly fractured and in parts sheared at 40-45CA. Fractures are variably oriented, mainly at 45CA. Less common flat fractures are oriented at 10-15CA and often have dissolution cavities. Mineralization: concentrations of fine-grained and fine diss Py vary from traces to 5-7%; overall 3%. Approximate lower contact.
55.50	59.50	CB; HM; FK; MG; LX **Carbonatisation; Hématisation; Altération en feldspath potassique; Magn** Strong pervasive Hem and Carb alteration, Carb in fractures, minor disseminated leucoxene. Fine Mgt disseminated in the matrix and fine-grained in fractures.
55.50	59.50	PY03 **Pyrite 3%** Concentrations of fine-grained and fine diss Py vary from traces to 5-7%; overall 3%.
55.50	59.50	FA; CS 45 **Fracturé(e); Cisaillé(e) 45°** Strongly fractured and in parts sheared at 40-45CA. Fractures are variably oriented, mainly at 45CA. Less common flat fractures are oriented at 10-15CA and often have dissolution cavities.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
55.50	56.50		A0103830	0.0370	Au-ICP21	VO20089351
56.50	57.50		A0103831	0.0200	Au-ICP21	VO20089351
57.50	58.50		A0103832	0.0180	Au-ICP21	VO20089351
58.50	59.50		A0103833	**0.2290**	Au-ICP21	VO20089351

From	To	Description
59.50	**62.00**	I2D; GM **Syénite; Grains moyens** Syenite with minor mafic material. Syenite is pink-red to grey-red, medium to coarse-grained with distinct white and red Fsp grains, pervasive red and specular Hem and Carb/Cal alteration, beige leucoxene partially to completely replacing Hem (pseudomorphs after Mgt) and probably mafic minerals. Magnetism: non-magnetic. Structure: moderate to strong fracturing at various angles, locally weak shearing at 20-25CA. 60.5-61.75 m - late, periodic fractures filled by white carbonate, mm-cm wide, oriented at 55 to 90CA at 5-15 cm spacing; some contain specular hematite. Mineralization: traces to 1% Py, locally up to 3% Py as disseminated, medium to small, subhedral grains. Arbitrary lower contact, marked where the rock becomes darker, possibly due to a higher percentage of mafic material.
59.50	62.00	CB; HM; FK; LX **Carbonatisation; Hématisation; Altération en feldspath potassique; Leuco** Strong pervasive red and specular Hem and Carb/Cal alteration, carbonate in fractures. Beige leucoxene partially to completely replaces Hem (pseudomorphs after Mgt) and probably mafic minerals present as medium-size grains and interstitial aggregates.
59.50	63.20	PY00.75 **Pyrite 0.75%** Traces to 1% Py, locally up to 3% Py as disseminated, medium to small, subhedral grains.
59.50	62.00	FA; CS 25 **Fracturé(e); Cisaillé(e) 25°** Moderate to strong fracturing at various angles with grey to white carbonate infilling, locally weak shearing at 20-25CA. 60.5-61.75 m - late, periodic fractures filled by white carbonate, mm-cm wide, oriented at 55 to 90CA at 5-15 cm spacing; some contain specular hematite.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
59.50	60.50		A0103834	**0.1410**	Au-ICP21	VO20089351
60.50	61.25		A0103835	**0.2500**	Au-ICP21	VO20089351
61.25	62.00		A0103836	**0.2560**	Au-ICP21	VO20089351

From	To	Description
62.00	**63.50**	I2D (V3B); GM **Syénite avec 5 à 25% de basalte; Grains moyens** Syenite, probably contaminated by mafic material. The interval is mottled, dark mauve-grey, medium-grained groundmass with distinct red and white Fsp grains. There are dark mauve-grey to purple-beige grains and fine-grained, interstitial aggregates which are partially to completely replaced by Hem, Carb and Lx. Magnetism: weakly to moderately magnetic due to fine disseminated Mgt grains. Structure: weakly to moderately fractured with dominantly carbonate infilling, typically at 25-40CA. 63.2-63.5 m - sheared rock with weakly to moderately-developed foliation at 25-45CA. Mineralization: traces to 0.5-1% med Py in the upper parts. 63.2-63.5 m – 3-5% fine to med-grained Py aggregates diss and in sheared Carb/Hem fabrics. An approximate lower contact,
62.00	63.50	HM; CB; FK; LX; MG **Hématisation; Carbonatisation; Altération en feldspath potassique; Leuco** Strong pervasive red and specular hematite, greyish to white carbonate /calcite. There are dark mauve-grey to purple-beige grains and fine-grained, interstitial aggregates which are partially to completely replaced by Hem, Carb and Lx. Fine disseminated magnetite.
63.20	63.50	PY04 **Pyrite 4%** 3-5% fine to lesser med-grained Py aggregates diss and in sheared Carb/Hem fabrics.
62.00	63.20	FA **Fracturé(e)** Weakly to moderately fractured with dominantly carbonate infilling, typically at 25-40CA.
63.20	63.50	CS **Cisaillé(e)** Sheared interval with weakly to moderately-developed foliation at 25-45CA.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
62.00	63.00		A0103837	0.0070	Au-ICP21	VO20089351
63.00	64.00		A0103838	**0.1170**	Au-ICP21	VO20089351

64.00	65.00		A0103839	0.0100	Au-ICP21	VO20089351
65.00	66.00		A0103841	0.0090	Au-ICP21	VO20089351
66.00	67.00		A0103842	0.0070	Au-ICP21	VO20089351

63.50 **67.25** V3B I2D

Basalte avec 25 à 50% de syénite

Highly altered, fenitized Basalt.
Mottled, dark mauve, grey, red, fine to med-grained with distinct greyish white, rhomboidal, carbonate grains. Strong pervasive red and specular Hem, K-spr and Carb/Cal alteration, locally fine disseminated leucoxene.
Magnetism: weakly to strongly magnetic due to fine Mgt diss and in fractures.

Structure: strongly fractured at various angles, carbonate/calcite infilling. Locally sheared.
Mineralization: 0.5 to 5% fine Py diss and fine-grained aggregates.

65.35-65.5 m – a shear zone foliated at 30-35CA, Carb-Mgt-Fsp-Qz, mineralized by 10-15% Py.

A somewhat distinct lower contact.

63.50 67.25 CB; HM; FK; MG; LX

Carbonatisation; Hématisation; Altération en feldspath potassique; Magn

Strong pervasive red and specular Hem, K[spr and Carb/Cal alteration, locally fine disseminated leucoxene. Carb in fractures, disseminated small grains. Fine disseminated Mgt and in fractures.

63.50 65.50 PY03; CPtr

Pyrite 3%; Chalcopyrite tr

0.5 to 5% Py fine disseminated grains, in Carb/Hem altered patches and sheared fabrics. Rare traces Cpy.

65.50 65.70 PY15

Pyrite 15%

A Cal-Mgt-Hem shear zone mineralized by 10-15% fine to med-size Py grains and aggregates.

65.70 67.25 PY01

Pyrite 1%

Traces to 1-3% fine Py in sheared Cal-Hem fabrics, fractures.

63.50 65.50 FA

Fracturé(e)

Strongly fractured at various angles, white to pink carbonate/calcite infilling. Locally sheared.
Distinct orientations:
1) low-angle fractures, at 0-20CA; crosscutting foliation in sheared parts.
2) tension gashes at 30-35CA (S3 to low-angle S2 fractures);
3) tension gashes oriented at 45-60CA in opposite direction to type 2

fractures.

65.50	65.70	CS	27

Cisaillé(e) 27°

A shear zone, well-foliated at 27-30CA with foliation defined by Cal-Mgt-Hem fabrics. Mineralized by 10-15% Py.

65.70	67.25	CS; FA	25

Cisaillé(e) 25°; Fracturé(e)

Sheared interval with intermittently-developed foliation at 25-30CA. Low-angle fractures filled by pinkish white carbonate/calcite crosscut the foliation at 0-20CA in opposite direction. Irregular tension gashes at 45-90CA.

From	To	Description
67.25	**68.50**	I2D; GM

Syénite; Grains moyens

Syenite
The rock is medium pink-red, medium-grained with distinct white and red Fsp grains in the matrix. It contains 5% small, greyish, mauve-grey, fine-grained fragments of Basalt. Pervasive red Hem/K-spr and patchy Carb alteration, minor specular Hem in fractures; fine disseminated specks of leucoxene, often stretched.
Magnetism: non-magnetic.

Structure: strongly fractured, in parts brecciated, sheared with intermittently-developed foliation at 25-35CA.
Mineralization: traces to 0.5-1% Py fine-grained aggregates in fractures.

A somewhat distinct lower contact.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
67.00	68.00		A0103843	0.0150	Au-ICP21	VO20089351
68.00	68.50		A0103844	0.0040	Au-ICP21	VO20089351

67.25	68.50	HM; FK; CB; LX	

Hématisation; Altération en feldspath potassique; Carbonatisation; Leuco

Strong pervasive red Hem/K-spr and patchy Carb alteration, minor specular Hem in fractures; fine disseminated specks of leucoxene, often stretched.

67.25	68.50	PY00.5	

Pyrite 0.5%

Traces to 0.5-1% Py fine-grained aggregates in fractures.

67.25	68.50	FA; CS	27

Fracturé(e); Cisaillé(e) 27°

Strongly fractured, in parts brecciated, sheared with intermittently-

developed foliation at 25-35CA.

From	To	Description
68.50	**72.00**	V3B (I2D) **Basalte avec 5 à 25% de syénite** Highly altered, patchy fenitized Basalt. Dark to medium grey, red, mauve, fine to medium-grained with distinct, small, rhomboidal, greyish white carbonate crystals disseminated in fine-grained matrix. Strong pervasive specular and red Hem and Carb/Cal alteration, patchy K-alteration and silcification. Fine disseminated leucoxene. Basalt is crosscut by 5-15% red syenite injections, mm to several cm wide, medium-grained, with irregular distinct or fuzzy contours. Magnetism: variable. The upper half is strongly to weakly magnetc. The lower half is weakly to non-magnetic. Fine disseminated grains and fine-grained aggregates of Mgt. Structure: strongly fractured, in parts sheared at 20-35CA, boudinaged Carb veinlets. Late en-echelon fractures filled by pinkish white carbonate are oriented at 10-25CA. Mineralization: 68.5-69.5 m – trace Py, locally 3% fine Py in sheared parts. 69.5-71 m – 3 to 10% Py fine to med-grained aggregates along fractures, sheared fabrics, disseminated. Traces Cpy. 71-72 m – traces to 0.5% Py fine grains and fine-grained aggregates in fractures. XRF shows elevated REEs and PO4 in some carbonate patches. A somewhat distinct lower contact.
68.50	72.00	HM; CB; FK; MG; SI **Hématisation; Carbonatisation; Altération en feldspath potassique; Magn** Strong pervasive specular and red Hem and Carb/Cal alteration. Carbonate/calcite in fractures. Patchy K-alteration/fenitization, silicification. Fine disseminated grains and fine-grained aggregates of Mgt. Fine disseminated leucoxene.
68.50	69.50	PY00.5 **Pyrite 0.5%** Trace Py, locally 3% fine Py in sheared parts.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
68.50	69.00		A0103845	0.0070	Au-ICP21	VO20089351
69.00	70.00		A0103846	0.0150	Au-ICP21	VO20089351
70.00	71.00		A0103847	0.0320	Au-ICP21	VO20089351
71.00	72.00		A0103848	0.0290	Au-ICP21	VO20089351

69.50	71.00	PY05; CPtr	
		Pyrite 5%; Chalcopyrite tr	
		3 to 10% Py fine to med-grained aggregates along fractures, sheared fabrics, disseminated. Traces Cpy.	
71.00	72.00	PY00.25	
		Pyrite 0.25%	
		Traces to 0.5% Py fine grains and fine-grained aggregates in fractures.	
68.50	72.00	FA; CS	25
		Fracturé(e); Cisaillé(e) 25°	
		Strongly fractured, boudinaged Carb veinlets; in parts sheared at 20-35CA. Late en-echelon fractures filled by pinkish white carbonate are oriented at 10-25CA. Tension gashes at 40-50CA.	

From	To	Description
72.00	**75.20**	V3B I2D; CS
		Basalte avec 25 à 50% de syénite; Cisaillé
		Strongly sheared Basalt with Syenite injections, 50-50%. Basalt is fine-grained, pale to medium grey, pinkish grey, pervasively carbonatized, patchy silicified, K-altered, with fine disseminated grains of Mgt replaced by specular Hem. Non-magnetic to weakly magnetic. Syenite injections are medium-grained, medium orangy-red with distinct white and red Fsp grains, non-magnetic, Hem/K-altered, with interstitial and fracture-filling white carbonate. The injections have distinct, irregular contacts, vary from a few mm to several cm in width. Some injections are parallel to subparallel to the foliation, boudinaged, while other injections crosscut the foliation at various angles. Structure: brittle-ductile deformation, strongly sheared and fractured interval. Foliation is weakly to well-developed at 25-40CA. At 74.1-75.2 m – a grey to pink-grey, patchy bleached, patchy carbonatized (calcite) and silicified, brecciated zone cemented by carbonate veins; numerous dissolution cavities, minor fluorite in fractures. A very weak foliation at 45CA. Mineraliation: 72-74.1 m - traces to 0.5-1% Py fine diss grains and fine-grained aggregates. 74.1-75.2 m - 3-7% fine Py grains and fine-grained aggregates, traces Cpy. An approximate lower contact.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
72.00	73.00		A0103849	0.0330	Au-ICP21	VO20089351
73.00	74.00		A0103850	0.0710	Au-ICP21	VO20089351
74.00	75.00		A0103851	**0.2000**	Au-ICP21	VO20089351

72.00	74.10	CB; FK; HM; SI; MG	
		Carbonatisation; Altération en feldspath potassique; Hématisation; Silicifi	
		Strong pervasive carbonatization in basalt, patchy silicification, pink-red Hem/K-alteration, fine disseminated grains of Mgt replaced by specular Hem. Strong K/Hem-alteration in syenite injections, weak to moderate interstitial and fracture-filling carbonate. Minor specular Hem in some fractures, matrix.	
74.10	75.20	CB; SI; FK; FL	
		Carbonatisation; Silicification; Altération en feldspath potassique; Fluoriti	
		Patchy bleached brecciated zone, patchy carbonatized (calcite) and silicified, cemented by carbonate veins; numerous dissolution cavities, minor fluorite in fractures.	
72.00	74.10	PY00.5	
		Pyrite 0.5%	
		Traces to 0.5-1% Py fine diss grains and fine-grained aggregates.	
74.10	75.20	PY05; CPtr	
		Pyrite 5%; Chalcopyrite tr	
		3-7% fine Py grains and fine-grained aggregates in a brecciated, mixed basalt/syenite interval; traces Cpy.	
72.00	74.10	CS; FA	30
		Cisaillé(e) 30°; Fracturé(e)	
		A strongly sheared and fractured interval. Foliation is weakly to well-developed at 25-40CA.	
74.10	75.20	BX; T1A	45
		Bréchique 45°; Brèche de faille	
		Brecciated interval/fault zone. The brecciated, angular fragments of the mixed basalt/syenite unit are cemented by carbonate/calcite veins. There are numerous dissolution cavities; minor fluorite in fractures. A very weak foliation at 45CA.	

From	To	Description
75.20	**80.00**	I2D (V3B)
		Syénite avec 5 à 25% de basalte
		Syenite with ~5% fragments of Basalt. Syenite is medium beige-red, fine to medium-grained with distinct red and white Fsp grains. Strong pervasive K/Hem-alteration and carbonatization. Minor disseminated black grains of Mgt replaced by Hem (non-magnetic, cherry red streak). Less than 5% of beige to grey small fragments of altered Basalt - carbonatized,

From	To	Len	SampleID	Au (ppm)	Method	Certificate
75.00	75.50		A0103852	0.0390	Au-ICP21	VO20089351
75.50	76.50		A0103853	0.0040	Au-ICP21	VO20089351
76.50	77.50		A0103854	**0.2210**	Au-ICP21	VO20089351
77.50	78.00		A0103855	0.0790	Au-ICP21	VO20089351
78.00	79.00		A0103857	0.0420	Au-ICP21	VO20089351
79.00	80.00		A0103858	**0.1250**	Au-ICP21	VO20089351

with some fine specular Hem.
Magnetism: non-magnetic.

Structure: brittle-ductile deformation, strong fracturing, microbrecciation with carbonate infilling. Some parts are weakly to moderately sheared, foliated at 40-45CA. Fractures are variably oriented, often fragmented, stepping with mm offsets. Angles vary from 0 to 45CA.
78.5-80 m - Strongly fractured interval with blocky, broken and grinded core, CNR 18 pouce / 0.5 m.

Mineralization: traces to 1% Py fine grains and aggregates in fractures, Carb patches; locally up to 5% Py. Traces Cpy.

79 m - 2-3 cm wide, lilac-pink Ca-carbonatite vein.

75.20	80.00	FK; HM; CB **Altération en feldspath potassique; Hématisation; Carbonatisation** Strong pervasive K/Hem-alteration and carbonatization. Minor disseminated black grains of Mgt replaced by Hem (non-magnetic, cherry red streak). Specular Hem in carbonatized fragments of basalt.	
75.20	80.00	PY01; CPtr **Pyrite 1%; Chalcopyrite tr** Traces to 1% Py fine grains and aggregates in fractures, Carb patches; locally up to 5% Py. Traces Cpy.	
75.20	78.50	FA; BX; CS **Fracturé(e); Bréchique; Cisaillé(e) 45°** Brittle-ductile deformation, strong fracturing, microbrecciation with carbonate infilling. Some parts are weakly to moderately sheared, foliated at 40-45CA. Fractures are variably oriented, often fragmented, stepping with mm offsets. Angles vary from 0 to 45CA.	45
78.50	80.00	FA; CNR **Fracturé(e); Carotte non récupérée** Strongly fractured interval with blocky, broken and grinded core, CNR 18 pouce / 0.5 m.	

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

80.00	81.00	A0103859	**0.2290**	Au-ICP21	VO20089351
81.00	82.00	A0103860	0.0890	Au-ICP21	VO20089351
82.00	83.00	A0103861	**0.1860**	Au-ICP21	VO20089351
83.00	84.00	A0103862	**0.1230**	Au-ICP21	VO20089351
84.00	85.00	A0103863	**0.1110**	Au-ICP21	VO20089351
85.00	86.00	A0103864	0.0430	Au-ICP21	VO20089351
86.00	87.00	A0103865	0.0360	Au-ICP21	VO20089351
87.00	88.00	A0103866	0.0190	Au-ICP21	VO20089351
88.00	89.00	A0103867	0.0080	Au-ICP21	VO20089351
89.00	90.00	A0103868	**0.4290**	Au-ICP21	VO20089351
90.00	90.85	A0103869	**0.3780**	Au-ICP21	VO20089351

80.00 **90.85** I2D (V3B); I4Q; CS

Syénite avec 5 à 25% de basalte; Carbonatite; Cisaillé

Syenite with 10-15% mafic material; carbonatite-related alteration.(elevated REEs, PO4, Ti).
The interval is medium to coarse-grained, mottled pink-red with dark grey carbonatized and specular Hem-altered patches. Strong pervasive to patchy K-spr, red and specular Hem and Carb alteration (fenitization). Very fine, disseminated, black specks of Hem after Mgt. Various types of carbonates - white, purplish pink, beige - variably reacting to HCl. Probably REE-rich carbonates.
There are greyish and yellowish beige grains, medium to coarse, anhedral, which are partially to fully altered to a fine-grained mixture which resembles leucoxene and which also contains carbonate and tiny colorless grains of apatite. XRF shows elevated Ti (6%), PO4 (15%), REEs (Ce, La, Nd, Pr, Y) up to 0.45%, Zr (3200 ppm), W (275 ppm) and Th (55 ppm).

Magnetism: non-magnetic.

Structure: strongly fractured and sheared; weakly-developed foliation and fractures are oriented at angles ranging from 10 to 45CA. Blocky core, some dissolution cavities along fractures.
Mineralization: traces to locally 1-2% fine to med Py grains and aggregates. Traces Cpy.

XRF (red syenite): SiO_2=32%, Al_2O_3=10%, K=6%, Ca=6, Fe=3.5%, elevated REEs (500 ppm).

The lower contact is somewhat distinct by changes in grain size; strongly fractured and sheared at 45CA. Fluorite in fractures over 15-20 cm near the contact.

80.00 90.60 FK; HM; CB; LX

Altération en feldspath potassique; Hématisation; Carbonatisation; Leuco

Strong pervasive potassic alteration, red and specular Hem alteration and carbonatization (calcite, carbonate, possibly REE-carbonates). Very fine, disseminated, black specks of Hem after Mgt. Beige leucoxene (mixture with carbonate and apatite) partially to completely replacing coarse black grains and fine-grained aggregates (Mgt, mafics?).

90.60 90.85 FK; HM; FL; CB

Altération en feldspath potassique; Hématisation; Fluoritisation; Carbona

Strong patchy K, Hem, Carb alteration. Fluorite, carbonate, minor greenish grey fine Amph(?) in fractures.

80.00 90.85 PY01; CPtr

Pyrite 1%; Chalcopyrite tr

Traces to 0.5-1% Py fine to med diss grains, locally 2% Py fine-grained aggregates. Traces Cpy.

80.00	87.00	CS; FA	15

Cisaillé(e) 15°; Fracturé(e)

A strongly sheared, fractured and brecciated interval. Foliation and fractures are mainly oriented at 10-25CA.
Blocky core, broken to 0.5-3 dm pieces and gravel. Frequent dissolution cavities along low-angle fractures.

87.00	90.85	FA; CS	40

Fracturé(e); Cisaillé(e) 40°

Strongly fractured and sheared interval with intermittent, weakly-developed foliation at 40-45CA.

From	To	Description
90.85	**92.50**	V3B; GF

Basalte 45°; Grains fins

Strongly altered, fenitized Basalt.
The interval is dark mauve-grey, massive, fine -grained, with ~5% reddish, med-grained syenite injections and fenitized patches, a few mm to a few cm wide, with distinct or fuzzy contours. Strong pervasive red and specular Hem and K-spr alteration and carbonatization (calcite). Minor fine specks of leucoxene often stretched along the foliation.
Magnetism: non-magnetic.

Structure: moderately fractured, sheared with weakly to moderately-developed foliation at 35CA.

Mineralization: traces Py.

The lower contact is somewhat distinct, sheared at 35CA..

90.85	92.50	HM; CC; FK; LX

Hématisation; Calcitisation; Altération en feldspath potassique; Leucoxen

Strong pervasive red and specular Hem and K-spr alteration and carbonatization (calcite). Minor fine specks of leucoxene often stretched along the foliation.

90.85	92.50	PYtr

Pyrite tr

Traces of fine Py.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
90.85	91.65		A0103870	0.0170	Au-ICP21	VO20089351
91.65	92.50		A0103871	0.0210	Au-ICP21	VO20089351

90.85 92.50 CS; FA 35

Cisaillé(e) 35°; Fracturé(e)

Moderately fractured, sheared with weakly to moderately-developed foliation at 35CA.

From	To	Description
92.50	**107.00**	V3B I2D; I4Q; CS

Basalte avec 25 à 50% de syénite 35°; Carbonatite; Cisaillé

Sheared Basalt with Syenite injections (50-50%), carbonatite-related alteration. The interval is very heterogeneous, composed intermixed fenitized basalt and syenite, very mottled. Syenite-dominated intervals and injections are medium beige-red, fine to medium-grained, with distinct or fuzzy contacts, varying from mm-cm to several dm in length. It is often hard to tell whether this is an injection or a fenitized patch. Carbonatite-altered patches and veins also have bright pink-red colour (highly elevated PO4 and REEs: Ce, La, Nd, Pr, Y up to 1.2% combined).
Basalt-dominant intervals are mottled dark grey, red-mauve, fine to coarse-grained and contain small, greyish white, rhomboidal carbonate grains.
Strong patchy to pervasive K, Hem, Carb, Cal alteration in both lithologies. Leucoxene+/-apatite+/-carbonate alteration of magnetite, mafic minerals and titanite. Minor green Amph/Chl in basalt matrix.

Magnetism: the upper portion is non-magnetic; from 96.7 m - weakly to moderately magnetic due to the presence of small, disseminated Mgt grains and fine-grained Mgt masses.

Structure: strongly fractured and sheared with intermittent weakly to moderately-developed foliation at 20-33CA.
At 93-93.7 m – a fault zone (?), blocky, broken core with dissolution cavities and fluorite in fractures.

Mineralization: traces to 0.5-1% Py fine to med-size diss cubic grains, aggregates.
100-102.5 m – 2-3% Py fine diss grains and aggregates in microbrecciated, sheared, carbonatized zones. Microbrecciated syenite resemble a carbonatite-altered zone with syenite "islands" observed in DO-19-105x

An approximate lower contact.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
92.50	93.00		A0103872	0.0130	Au-ICP21	VO20089351
93.00	94.00		A0103874	**0.1250**	Au-ICP21	VO20089351
94.00	95.00		A0103875	0.0610	Au-ICP21	VO20089351
95.00	96.00		A0103876	0.0060	Au-ICP21	VO20089351
96.00	97.00		A0103877	0.0010	Au-ICP21	VO20089351
97.00	98.00		A0103878	0.0040	Au-ICP21	VO20089351
98.00	99.00		A0103879	0.0070	Au-ICP21	VO20089351
99.00	100.00		A0103880	0.0030	Au-ICP21	VO20089351
100.00	101.00		A0103881	**0.2260**	Au-ICP21	VO20089351
101.00	102.00		A0103882	0.0530	Au-ICP21	VO20089351
102.00	103.00		A0103883	0.0720	Au-ICP21	VO20089351
103.00	104.00		A0103884	0.0270	Au-ICP21	VO20089351
104.00	105.00		A0103885	0.0140	Au-ICP21	VO20089351
105.00	106.00		A0103886	**0.1300**	Au-ICP21	VO20089351
106.00	107.00		A0103887	0.0830	Au-ICP21	VO20089351

92.50 107.00 FK; HM; CB; LX; MG; AM

Altération en feldspath potassique; Hématisation; Carbonatisation; Leuco

Strong patchy to pervasive K, Hem, Carb, Cal alteration in both syenite and

basalt. Leucoxene+/-apatite+/-carbonate alteration of magnetite, mafic minerals and titanite. Minor green Amph/Chl in basalt matrix. Carbonatite-related alteration.

92.50 100.00 PY00.5

Pyrite 0.5%

Traces to 0.5-1% Py fine to med-size diss cubic grains.

100.00 102.50 PY01.5

Pyrite 1.5%

1-3% Py fine diss grains and aggregates in sheared and microbrecciated, carbonate-cemented zones.

102.50 107.00 PY00.5

Pyrite 0.5%

Traces to 0.5-1% Py fine grains and fine to med-grained aggregates.

92.50 93.00 CS 35

Cisaillé(e) 35°

Strongly sheared syenite with foliation developed at 35CA.

93.00 93.70 FA; BX

Fracturé(e); Bréchique

A fault zone (?), strongly fractured, brecciated, blocky core with dissolution cavities and fluorite in fractures.

93.70 107.00 CS; FA 25

Cisaillé(e) 25°; Fracturé(e)

Strongly fractured and sheared with intermittent, weakly to moderately-developed foliation at 20 to 30CA.

From	To	Description
107.00	**123.70**	I2D; GG **Syénite; Grains grossiers** Syenite to Monzonite. The rock is medium to coarse-grained, pale greyish pink to salmon pink, mainly composed of pink and white feldspars (K-spr, Plg). Weak pink hematite staining on Fsp grains, locally minor specular Hem. Weak to moderate iInterstitial and fracture-filling carbonate alteration (weak fizzing to HCl). Fluorite, albite, silica in cracks, fractures. Weak-moderate to locally strong greyish patchy silicification. Magnetism: non-magnetic. Structure: strongly fractured, blocky core with dissolution cavities. Mineralization: 0.5-3% Py fine to med disseminated subhedral to euhedral

From	To	Len	SampleID	Au (ppm)	Method	Certificate
107.00	108.00		A0103889	**0.2970**	Au-ICP21	VO20089351
108.00	109.00		A0103890	**0.2880**	Au-ICP21	VO20089351
109.00	110.00		A0103891	**0.8440**	Au-ICP21	VO20089351
110.00	111.00		A0103892	**0.7310**	Au-ICP21	VO20089351
111.00	112.00		A0103893	**0.6610**	Au-ICP21	VO20089351
112.00	113.00		A0103894	**0.2090**	Au-ICP21	VO20089351
113.00	114.00		A0103895	**0.3250**	Au-ICP21	VO20089351
114.00	115.00		A0103896	0.0830	Au-ICP21	VO20089351
115.00	116.00		A0103897	**0.3610**	Au-ICP21	VO20089351
116.00	117.00		A0103898	**0.5710**	Au-ICP21	VO20089351
117.00	118.00		A0103899	**0.1930**	Au-ICP21	VO20089351
118.00	119.00		A0103900	**0.2300**	Au-ICP21	VO20089351

		grains, in interstices and fine-grained aggregates in fractures. 113.5-117.2 m – patchy bleaching, silicification/albitization along flat fractures, 2-3% Py fine-grained aggregates, diss. The lower contact is marked at the beginning of a shear zone.					
107.00	108.50	CB; FK; SI; HM; LX **Carbonatisation; Altération en feldspath potassique; Silicification; Hémati** Moderate patchy carbonatization, silicification, weak to moderate patchy K/Hem alteration, minor specular Hem. Brownish beige anhedral grains, fine-grained masses altered by leucoxene, carbonat, +/-fine apatite.					
108.50	123.70	SI; CB; HM; FL; AB **Silicification; Carbonatisation; Hématisation; Fluoritisation; Albitisation** Weak to moderate and locally strong patchy greyish silicification. Weak to locally moderate carbonate in fractures, interstices; shows mild reaction to HCl test. Weak pink Hem staining on feldspar grains, locally minor specular Hem. Fluorite, carbonate and albite in cracks, fractures and dissolution cavities. 113.5-117.2 m – patchy bleaching, silicification/albitization along low-angle fractures.					
107.00	123.70	PY02 **Pyrite 2%** 0.5-3% Py fine to med disseminated subhedral to euhedral grains, in interstices, and fine-grained aggregates in fractures.					
107.00	123.70	FA 10 **Fracturé(e) 10°** Strong fracturing, crackle brecciation, dissolution cavities, blocky core. There is one distinct set of fractures oriented at 0-15CA, typically irregular, stepping, discontinuous, often with greyish silicification halos.					

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
			119.00	120.00		A0103901	0.0760	Au-ICP21	VO20089351
			120.00	121.00		A0103902	0.0760	Au-ICP21	VO20089351
			121.00	122.00		A0103903	**0.5190**	Au-ICP21	VO20089351
			122.00	123.00		A0103905	**0.4820**	Au-ICP21	VO20089351
			123.00	124.00		A0103906	**0.7240**	Au-ICP21	VO20089351

123.70 **133.50** I2D; I4Q; CS

Syénite; Carbonatite; Cisaillé

Strongly sheared Syenite, carbonatite.
The interval has a mottled appearance, pale pink-grey, medium-grained with pink and white feldspar grains, in parts coarser-grained, often microbrecciated, pervasively strongly carbonatized, with weak to moderate red and minor specular Hem alteration. Locally minor fluorite in cracks and dissolution cavities. Coarse-grained intervals contain brownish grey, Ti-rich grains and fine-grained masses. Carbonate produces moderate reaction to HCl. XRF shows constant enrichment in REEs (Ce, La, Nd) and PO4 which points to carbonatite-related alteration.
Magnetism: non-magnetic.

Structure: frequently microbrecciated to mm-cm pieces and cemented by carbonate; sheared with intermittent weakly to moderately-developed foliation at 55-65CA.

Mineralization: mostly traces Py, locally 0.5-1% Py fine to med-size cubic grains; at 128.7 m - irregular masses of Cpy.

An arbitrary lower contact.

123.70 133.50 CB; FK; SI; HM; FL; AB

Carbonatisation; Altération en feldspath potassique; Silicification; Hémati

Strong carbonatization (carbonatite-related), pervasive, interstitial, in fractures. Weak to moderate patchy silicification; pink-red and minor specular hematite alteration. Possibly secondary K-spr (fenitization). Minor fluorite and albite in fractures, dissolution cavities.
Locally brownish beige anhedral grains and fine-grained masses rich in Ti.

123.70 133.50 PY00.25; CPtr

Pyrite 0.25%; Chalcopyrite tr

Mostly traces Py, locally 0.5-1% Py fine to med-size cubic grains; at 128.7 m - irregular masses of Cpy.

123.70 133.50 CS; BX; FA 60

Cisaillé(e) 60°; Bréchique; Fracturé(e)

Frequent microbrecciation of syenite to mm-cm pieces which are cemented by carbonate. Intermittent, weakly to moderately-developed foliation at 55-65CA. Some small dissolution cavities in the matrix and along fractures and foliation planes.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
124.00	125.00		A0103907	**0.2280**	Au-ICP21	VO20089351
125.00	126.00		A0103908	**0.1110**	Au-ICP21	VO20089351
126.00	127.00		A0103909	0.0500	Au-ICP21	VO20089351
127.00	128.00		A0103910	**0.2630**	Au-ICP21	VO20089351
128.00	129.00		A0103911	**0.4670**	Au-ICP21	VO20089352
129.00	130.00		A0103912	0.0340	Au-ICP21	VO20089352
130.00	131.00		A0103913	0.0720	Au-ICP21	VO20089352
131.00	132.00		A0103914	0.0910	Au-ICP21	VO20089352
132.00	133.00		A0103915	0.0750	Au-ICP21	VO20089352
133.00	133.50		A0103916	0.0750	Au-ICP21	VO20089352

133.50 149.50 I2D; I4Q; CS

Syénite; Carbonatite; Cisaillé

Continuation of Syenite, strongly fractured, sporadically sheared with carbonatite injections.
The rock has a mottled, patchy appearance, medium grey, pink, beige-grey due to patchy Carb, Sil and K/Hem alteration. The matrix is medium-grained, often microbrecciated and cemented by grey to beige carbonate +/-apatite. XRF show weak to moderate enrichment in REEs (Ce, La, +/-Nd) 100-350 ppm and up to 1000 ppm in carbonatite injections with apatite (up to 30% PO4). Patchy silicification, weak patchy red K/Hem secondary alteration (fenitization). Very minor fluorite in some fractures.
Magnetism: non-magnetic.

Structure: strongly fractured, microbrecciated, crackle brecciation with carbonate infilling. Intermittently-developed weak to moderate foliation at 30 to 45CA with carbonate and carbonatite veins. Blocky, broken core. Some dissolution cavities are oriented parallel to the foliation.

Mineralization:
133.5-144.2 m - 1-5% Py fine-grained aggregates in Carb shear bands, fractures, disseminated fine grains.
144.2-149.5 m – traces to 1-2% Py fine-grained aggregates in carbonate-altered patches.

An arbitrary lower contact.

133.50 149.50 CB; FK; HM; SI

Carbonatisation; Altération en feldspath potassique; Hématisation; Silicifi

Moderate patchy grey-white to beige-white Carb, greyish Sil and pink-red K/Hem alteration. Very minor fluorite in some fractures.

133.50 144.20 PY03

Pyrite 3%

2-5% Py fine-grained aggregates in Carb shear bands, fractures, disseminated fine grains.

144.20 149.50 PY00.5

Pyrite 0.5%

Traces to 1-2% Py fine-grained aggregates in carbonate-altered patches.

133.50 149.50 FA; CS 35

Fracturé(e); Cisaillé(e) 35°

The interval is strongly fractured, microbrecciated; locally crackle brecciation with carbonate infilling. Intermittently-developed weak to moderate foliation at 30 to 45CA with carbonate and carbonatite veins.

133.50	134.00	A0103917	**0.2390**	Au-ICP21	VO20089352
134.00	135.00	A0103918	**0.1900**	Au-ICP21	VO20089352
135.00	136.00	A0103919	**0.1280**	Au-ICP21	VO20089352
136.00	137.00	A0103920	**0.1110**	Au-ICP21	VO20089352
137.00	138.00	A0103922	0.0240	Au-ICP21	VO20089352
138.00	139.00	A0103923	0.0640	Au-ICP21	VO20089352
139.00	140.00	A0103924	**0.1240**	Au-ICP21	VO20089352
140.00	141.00	A0103925	**0.1200**	Au-ICP21	VO20089352
141.00	142.00	A0103926	0.0960	Au-ICP21	VO20089352
142.00	143.00	A0103927	0.0880	Au-ICP21	VO20089352
143.00	144.00	A0103928	0.0410	Au-ICP21	VO20089352
144.00	145.00	A0103929	0.0090	Au-ICP21	VO20089352
145.00	146.00	A0103930	0.0090	Au-ICP21	VO20089352
146.00	147.00	A0103931	0.0050	Au-ICP21	VO20089352
147.00	148.00	A0103932	0.0060	Au-ICP21	VO20089352
148.00	149.00	A0103933	0.0590	Au-ICP21	VO20089352
149.00	150.00	A0103934	0.0500	Au-ICP21	VO20089352

Blocky, broken core. Some dissolution cavities are oriented parallel to the foliation.

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate
149.50	**152.80**	I2D **Syénite** Syenite, pale grey-pink, fine to medium-grained, patchy to pervasively carbonatized, patchy silicified, with remnant patchy K/Hem; contains pale greenish grey, fine-grained and carbonatized patches which could be digested basalt. Locally minor fluorite grains in the matrix and some fractures. Non-magnetic. Structure: strongly fractured, microbrecciated, locally foliated at 20-30CA. Mineralization: traces Py. XRF (greenish carbonatized patches): SiO2=29-35%, Al2O3=11-15%, Ca=2-5%, K=2-4%, Fe=2-3.5%, PO4=2-3%; slightly elevated REEs (Ce, La) 200-300 ppm. An arbitrary lower contact.	150.00	151.00		A0103935	0.0190	Au-ICP21	VO20089352
			151.00	152.00		A0103937	0.0140	Au-ICP21	VO20089352
			152.00	153.00		A0103938	0.0170	Au-ICP21	VO20089352
149.50	152.80	CB; SI; FK; HM; FL **Carbonatisation; Silicification; Altération en feldspath potassique; Hémati** Strong carbonatization - patchy to pervasive, fracture and microcrack-filling; Weak to moderate patchy silicification, possibly albitization. Remnant or possibly secondary pink K/Hem patchy alteration. Locally minor fluorite in fractures and small dark violet grains in the matrix. Locally fine black needles/prismatic grains disseminated in the matrix.							
149.50	152.80	PYtr **Pyrite tr** Traces of fine Py.							
149.50	152.80	FA; CS 25 **Fracturé(e); Cisaillé(e) 25°** The interval is strongly fractured, microbrecciated, locally foliated at 20-30CA.							

From	To	Description	From	To	Len	SampleID	Au (ppm)	Method	Certificate

152.80 165.50 I2D

Syénite

Syenite.
The rock is medium to coarse-grained, pale to medium grey-pink, with 1-3% grey to dark beige blebby phenocrysts which give the rock a spotted appearance.
Moderate to strong patchy to pervasive silicification, albitization, weak to moderate interstitial and fracture-filling carbonate. There are minor fine black needles disseminated in the matrix. Non-magnetic.

Structure: strongly fractured with colorless quartz, white albite and white carbonate in fractures, fluorite in cracks. Frequent dissolution cavities occur along fractures lined with crystals (Carb, Fl, Qz, Alb, Py). Fractures, tension gashes are variably oriented. S2 fractures tend to be at 25-35CA and S3 gashes occur at high core angles.

Mineralization: 0.5-2% Py fine disseminated grains and fine-grained aggregates in interstices, fractures and in silicified patches.
154.3-155.65 m - strongly silicified and carbonatized, sheared and fractured interval, mineralized by 2-5% fine Py.

XRF: SiO_2=38-44%, Al_2O_3=11-13%, Ca=2%, K=3-5%, Fe=1.5%, PO_4=0.2%; Ce=170 ppm.

The lower contact is marked at the beginning of a shear zone.

152.80 165.50 SI; FK; HM; CB; AB; FL

Silicification; Altération en feldspath potassique; Hématisation; Carbonati

Moderate to strong patchy to pervasive silicification, albitization, weak to moderate interstitial and fracture-filling carbonate.
There are minor fine black needles disseminated in the matrix (aegirine?).
Qz, Alb, Carb and Fluorite in cracks, fractures, dissolution cavities.

At 1154.3-155.65 m - a bleached, silicified and carbonatized interval.

152.80 154.30 PY00.5

Pyrite 0.5%

Traces to 0.5-1% Py fine grains and fine-grained aggregates in fractures, silicified and carbonatized patches.

154.30 155.65 PY03

Pyrite 3%

2-5% Py fine disseminated grains and fine-grained aggregates in interstices and fractures in sheared, pachy silicified syenite.

153.00	154.00	A0103939	0.0050	Au-ICP21	VO20089352
154.00	155.00	A0103940	0.0120	Au-ICP21	VO20089352
155.00	156.00	A0103941	**0.3320**	Au-ICP21	VO20089352
156.00	157.00	A0103942	**0.6030**	Au-ICP21	VO20089352
157.00	158.00	A0103943	**0.1040**	Au-ICP21	VO20089352
158.00	159.00	A0103944	**0.1360**	Au-ICP21	VO20089352
159.00	160.00	A0103945	0.0530	Au-ICP21	VO20089352
160.00	161.00	A0103946	0.0110	Au-ICP21	VO20089352
161.00	162.00	A0103947	**0.2950**	Au-ICP21	VO20089352
162.00	163.00	A0103948	**0.8000**	Au-ICP21	VO20089352
163.00	164.00	A0103949	**1.5250**	Au-ICP21	VO20089352
164.00	165.00	A0103950	**0.9620**	Au-ICP21	VO20089352
165.00	166.00	A0103951	**0.8860**	Au-ICP21	VO20089352

155.65	165.50	PY01 **Pyrite 1%** 0.5-2% Py fine disseminated grains and fine-grained aggregates in interstices, fractures and in silicified and carbonatized patches.	
152.80	154.30	FA **Fracturé(e)** A strongly fractured interval with dissolution cavities.	
154.30	155.65	CS; FA **Cisaillé(e) 32°; Fracturé(e)** A strongly sheared and fractured interval with weakly to moderately-developed foliation at 30-35CA.	32
155.65	165.50	FA **Fracturé(e)** A strongly fractured interval with colorless quartz, white albite and white carbonate in fractures, fluorite in cracks. Frequent dissolution cavities occur along fractures lined with crystals (Carb, Fl, Qz, Alb, Py). Fractures, tension gashes are variably oriented. S2 fractures tend to be at 25-35CA and S3 gashes occur at high core angles. Blocky core.	

From	To	Description
165.50	**172.00**	I2D; I4Q; CS **Syénite; Carbonatite; Cisaillé** Sheared Syenite with overprinting carbonatite. The interval is mottled pink, red, pale to dark grey, medium-grained to finer-grained with a sugary texture, strongly carbonatized and contains reddish pink remnants of the original rock. XRF data shows strong enrichment in REEs (Ce, La, Nd, Y, Pr) up to 0.3% and locally up to 40% PO4. Dark greyish colour of some carbonatitic bands is probably attributed to the presence of apatite. Minor fluorite in the matrix and cracks. There are intervals that contain dark grey, brownish beige and black grains which could be some exotic minerals related to carbonatites. Non-magnetic. Structure: microbrecciated, sheared with moderately-developed foliation at 55-60CA. There are some dissolution cavities which commonly occur parallel to the foliation. Mineralization: 0.5 to 4% Py fine-grained aggregates along shear planes, grey bands, in fractures, disseminated fine grains; traces Cpy. The lower contact is approximate, marked at the end of shearing.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
166.00	167.00		A0103953	0.0140	Au-ICP21	VO20089352
167.00	168.00		A0103954	0.0100	Au-ICP21	VO20089352
168.00	169.00		A0103955	**0.3770**	Au-ICP21	VO20089352
169.00	170.00		A0103956	0.0250	Au-ICP21	VO20089352
170.00	171.00		A0103957	0.0360	Au-ICP21	VO20089352
171.00	172.00		A0103958	0.0380	Au-ICP21	VO20089352

165.50	172.00	CB; FK; HM; FL; LX	
		Carbonatisation; Altération en feldspath potassique; Hématisation; Fluori	
		Strong pervasive to patchy carbonatization (carbonatite-related); remnant K/Hem-altered fragments of syenite; minor fluorite in the matrix and cracks. Carbonatite-related minerals - apatite, leucoxene-altered Ti-bearing minerals, other exotic minerals.	
165.50	172.00	PY01.5; CPtr	
		Pyrite 1.5%; Chalcopyrite tr	
		0.5 to 4% Py fine-grained aggregates along shear planes, grey bands, in fractures, disseminated fine grains; traces Cpy.	
165.50	172.00	CS; BX	57
		Cisaillé(e) 57°; Bréchique	
		Microbrecciated, sheared interval with moderately-developed foliation at 55-60CA. There are some dissolution cavities which commonly occur parallel to the foliation.	

From	To	Description
172.00	**223.20**	I2D
		Syénite
		Syenite, fractured, silicified. The rock is medium-grained, bleached, pale pinkish grey to pale grey, patchy to pervasively silicified and probably albitized. Locally, there are red-colored Hem-stained remnants of the original rock or possibly secondary K/Hem alteration (fenitization). There are fine, black needles disseminated in the matrix (Aegirine? Amph? titanite?), typically 1-3%; also, there are localized 1-2% grey blebby phenocrysts which give the rock a spotted appearance. Weak to moderate beige-white carbonate in fractures and interstices. Greyish silicified halos around some fractures, locally silica flooding. Non-magnetic. Structure: strong fracturing, locally crackle brecciation. There are frequent small dissolution cavities, often formed along fractures and lined with druzy crystals of Qz, Carb, Alb, fluorite and cubic Py. Very blocky core, broken pieces a few dm to gravel size. At 216 m and 228 m, the drillers noted "cave" - could be larger dissolution cavities. Fractures and carbonate veinlets are variably oriented but most commonly at 45CA. Mineralization: 0.5 to 5% Py fine diss grains and fine aggregates in fractures and interstices; overall 1-3% Py.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
172.00	173.00		A0103959	0.0670	Au-ICP21	VO20089352
173.00	174.00		A0103960	0.0470	Au-ICP21	VO20089352
174.00	175.00		A0103961	0.0460	Au-ICP21	VO20089352
175.00	176.00		A0103962	0.0360	Au-ICP21	VO20089352
176.00	177.00		A0103963	0.0280	Au-ICP21	VO20089352
177.00	178.00		A0103964	**0.1070**	Au-ICP21	VO20089352
178.00	179.00		A0103965	**0.5470**	Au-ICP21	VO20089352
179.00	180.00		A0103966	0.0590	Au-ICP21	VO20089352
180.00	181.00		A0103967	0.0600	Au-ICP21	VO20089352
181.00	182.00		A0103968	**0.5370**	Au-ICP21	VO20089352
182.00	183.00		A0103970	**0.7420**	Au-ICP21	VO20089352
183.00	184.00		A0103971	0.0150	Au-ICP21	VO20089352
184.00	185.00		A0103972	0.0160	Au-ICP21	VO20089352
185.00	186.00		A0103973	0.0060	Au-ICP21	VO20089352
186.00	187.00		A0103974	0.0380	Au-ICP21	VO20089352
187.00	188.00		A0103975	0.0330	Au-ICP21	VO20089352
188.00	189.00		A0103976	**0.1600**	Au-ICP21	VO20089352
189.00	190.00		A0103977	**1.6500**	Au-ICP21	VO20089352
190.00	191.00		A0103978	**1.4100**	Au-ICP21	VO20089352
191.00	192.00		A0103979	**2.0800**	Au-ICP21	VO20089352

From	To	Description
		XRF: SiO2=37-42%, Al2O3=11-13%, Ca=2-3%, K=2-3%, Fe=1.5-2%, Ce=100-250 ppm. Some red sections have elevated K (up to 7%). An arbitrary lower contact.
214.90	215.50	I2D; I4Q; CS **Syénite; Carbonatite; Cisaillé** Syenite with a spotted appearance due to the presence of dark grey to brownish grey, fine-grained masses (apatite? titanite?). The matrix is patchy silicified, weakly carbonatized, fine to med-grained. Weakly to moderately-developed foliation at 20-25CA. Traces to 0.5% Py small to med cubic grains. XRF shows elevated Ti (1.5-2%), PO4 (1-2.5%) and elevated REEs (Ce, La, +/- Nd +/-Y 400-500 ppm combined0 and Zr (650 ppm).
172.00	223.20	SI; AB; CB; FL **Silicification; Albitisation; Carbonatisation; Fluoritisation** Moderate patchy to pervasive bleaching due to silicification and probably albitization. Locally red Hem-colored remnants of the original rock or possibly secondary K/Hem alteration (fenitization). There are fine, black needles disseminated in the matrix (Aegirine? Amph?), probably secondary alteration related to bleaching. Weak carbonate in fractures and interstices. Carbonate, fluorite, quartz in cavities.
172.00	215.00	PY02 **Pyrite 2%** 0.5 to 5% Py fine diss cubic grains and fine aggregates in fractures and interstices, in cavities; overall 1-3% Py.
172.00	223.20	FA; BX **Fracturé(e); Bréchique** Strong fracturing, locally crackle brecciation. There are frequent small dissolution cavities, often formed along fractures and lined with druzy crystals of Qz, Carb and fluorite. Some fractures are irregular and some are straight, at angles ranging from 25 to 65CA with dominant orientation at 40 to 55CA. Occasional flat fractures. Very blocky core, broken pieces a few dm to gravel size.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
192.00	193.00		A0103980	**1.5450**	Au-ICP21	VO20089352
193.00	194.00		A0103981	**0.5280**	Au-ICP21	VO20089352
194.00	195.00		A0103982	**0.5720**	Au-ICP21	VO20089352
195.00	196.00		A0103983	**2.4300**	Au-ICP21	VO20089352
196.00	197.00		A0103985	**2.2400**	Au-ICP21	VO20089352
197.00	198.00		A0103986	**1.5350**	Au-ICP21	VO20089352
198.00	199.00		A0103987	**2.8000**	Au-ICP21	VO20089352
199.00	200.00		A0103988	**1.8000**	Au-ICP21	VO20089352
200.00	201.00		A0103989	**2.8600**	Au-ICP21	VO20089352
201.00	202.00		A0103990	**0.7940**	Au-ICP21	VO20089352
202.00	203.00		A0103991	**1.5200**	Au-ICP21	VO20089352
203.00	204.00		A0103992	**5.2500**	Au-ICP21	VO20089352
204.00	205.00		A0103993	**2.7500**	Au-ICP21	VO20089352
205.00	206.00		A0103994	**0.6830**	Au-ICP21	VO20089352
206.00	207.00		A0103995	**0.1420**	Au-ICP21	VO20089352
207.00	208.00		A0103996	0.0480	Au-ICP21	VO20089352
208.00	209.00		A0103997	0.0450	Au-ICP21	VO20089352
209.00	210.00		A0103998	**0.1610**	Au-ICP21	VO20089352
210.00	211.00		A0103999	**0.4570**	Au-ICP21	VO20089352
211.00	212.00		A0104217	0.0930	Au-ICP21	VO20089353
212.00	213.00		A0104218	**0.1580**	Au-ICP21	VO20089353
213.00	214.00		A0104219	**0.6800**	Au-ICP21	VO20089353
214.00	215.00		A0104220	**0.3060**	Au-ICP21	VO20089353
215.00	216.00		A0104221	0.0450	Au-ICP21	VO20089354
216.00	217.00		A0104222	0.0590	Au-ICP21	VO20089354
217.00	218.00		A0104223	0.0160	Au-ICP21	VO20089354
218.00	219.00		A0104224	0.0470	Au-ICP21	VO20089354
219.00	220.00		A0104226	**0.2240**	Au-ICP21	VO20089354
220.00	221.00		A0104227	**0.1920**	Au-ICP21	VO20089354
221.00	222.00		A0104228	0.0130	Au-ICP21	VO20089354
222.00	223.00		A0104229	0.0090	Au-ICP21	VO20089354

223.20 295.00 I2D

Syénite

Syenite, slightly less bleached, pale to medium greyish pink, medium-grained, locally red-pink, coarser-grained zones (1-2 dm long), patchy silicified and carbonatized. Contains tiny bllack grains disseminated in the matrix.
Non-magnetic.

Structure: moderately to strongly fractured, in parts brecciated.
There are two distinct groups of fractures:
1) fractures filled by greyish or colorless silica and lesser creamy carbonate, typically occur at low core angles, 0 to 30 CA, straight and irregular, hairline to 1-2 mm wide, with greyish silicified halos and often mineralized by fine Py.
2) fractures filled by creamy white carbonate (dolomite to Fe-carbonate), lesser colorless Qz and probably albite. These fractures and mm-cm veinlets are commonly oriented at higher angles, 35 to 65CA (dominantly at 40-50CA) and are not mineralized.
The relationship between the two groups is not clear.
Dissolution cavities along some Carb veinlets and fractures lined with crystals of Carb, Qz, Alb and minor fluorite.

Mineralization: traces to 1% Py, locally 2%, fine disseminated cubc grains and fine-grained aggregates in fractures, especially those with silica infilling and silicified halos; cubic grains in dissolution cavities. Overall, less than 1% Py.
Locally traces Cpy in veinlets.

XRF: SiO_2=40-43%, Al_2O_3=11-13%, Ca=2-3%, K=2-3%, Fe=1.5-2%, Ce=100-250 ppm.

223.20 295.00 SI; CB; HM; FK; AB; FL

Silicification; Carbonatisation; Hématisation; Altération en feldspath pota

Moderate patchy silicification, greyish to colorless silica in fractures, halos around fractures. Weak to moderate carbonatization (dolomite to Fe-carbonate), fracture and veinlet-filling, interstitial.
Locally patchy red Hem/K-alteration. Fine black grains disseminated in the matrix - prismatic, needles, isometric, randomly oriented.
Minor fluorite along with carbonate, possibly albite in dissolution cavities.

215.00 295.00 PY01

Pyrite 1%

Traces to 1% Py, locally 2%, fine disseminated cubc grains and fine-grained aggregates in fractures, especially those with silica infilling and silicified halos; cubic grains in dissolution cavities.

223.20 234.00 FA 45

Fracturé(e) 45°

223.00	224.00	A0104230	**0.2240**	Au-ICP21	VO20089354
224.00	225.00	A0104231	0.0520	Au-ICP21	VO20089354
225.00	226.00	A0104232	**0.2820**	Au-ICP21	VO20089354
226.00	227.00	A0104233	0.0360	Au-ICP21	VO20089354
227.00	228.00	A0104234	0.0410	Au-ICP21	VO20089354
228.00	229.00	A0104235	0.0090	Au-ICP21	VO20089354
229.00	230.00	A0104236	0.0050	Au-ICP21	VO20089354
230.00	231.00	A0104237	0.0040	Au-ICP21	VO20089354
231.00	232.00	A0104238	0.0060	Au-ICP21	VO20089354
232.00	233.00	A0104239	0.0320	Au-ICP21	VO20089354
233.00	234.00	A0104241	**0.1150**	Au-ICP21	VO20089354
234.00	235.00	A0104242	0.0060	Au-ICP21	VO20089354
235.00	236.00	A0104243	0.0100	Au-ICP21	VO20089354
236.00	237.00	A0104244	0.0480	Au-ICP21	VO20089354
237.00	238.00	A0104245	0.0290	Au-ICP21	VO20089354
238.00	239.00	A0104246	0.0350	Au-ICP21	VO20089354
239.00	240.00	A0104247	**1.4600**	Au-ICP21	VO20089354
240.00	241.00	A0104248	**0.1570**	Au-ICP21	VO20089354
241.00	242.00	A0104249	0.0200	Au-ICP21	VO20089354
242.00	243.00	A0104250	0.0540	Au-ICP21	VO20089354
243.00	244.00	A0104251	0.0100	Au-ICP21	VO20089354
244.00	245.00	A0104252	0.0160	Au-ICP21	VO20089354
245.00	246.00	A0104253	0.0620	Au-ICP21	VO20089354
246.00	247.00	A0104254	0.0110	Au-ICP21	VO20089354
247.00	248.00	A0104255	0.0320	Au-ICP21	VO20089354
248.00	249.00	A0104257	0.0060	Au-ICP21	VO20089354
249.00	250.00	A0104258	0.0050	Au-ICP21	VO20089354
250.00	251.00	A0104259	0.0230	Au-ICP21	VO20089354
251.00	252.00	A0104260	0.0140	Au-ICP21	VO20089354
252.00	253.00	A0104261	**0.1460**	Au-ICP21	VO20089354
253.00	254.00	A0104262	**1.2700**	Au-ICP21	VO20089354
254.00	255.00	A0104263	0.0470	Au-ICP21	VO20089354
255.00	256.00	A0104264	0.0540	Au-ICP21	VO20089354
256.00	257.00	A0104265	0.0100	Au-ICP21	VO20089354
257.00	258.00	A0104266	0.0430	Au-ICP21	VO20089354
258.00	259.00	A0104267	0.0060	Au-ICP21	VO20089354
259.00	260.00	A0104268	0.0310	Au-ICP21	VO20089354
260.00	261.00	A0104269	0.0220	Au-ICP21	VO20089354

From	To	Description
		Strong fracturing, locally crackle brecciation. Fractures and mm-cm veinlets are generally oriented in same direction but at various angles ranging from 20 to 65CA, dominantly at 40-50CA; locally low-angle fractures. Fractures and veinlets are filled by creamy-white carbonate (Fe-dolomite), quartz, albite. Minor fluorite in occasional dissolution cavities in veins and along some fractures. 228-228.15 m - an interval with broken, grinded, gravel pieces which drillers marked as "cave" - a dissolution cavity?
234.00	252.80	FA **Fracturé(e)** Moderate to strong fracturing. There are two distinct groups of fractures: 1) fractures filled by greyish or colorless silica and lesser creamy carbonate, typically occur at low core angles, 0 to 30 CA, straight and irregular, hairline to 1-2 mm wide, often mineralized by fine Py. 2) fractures filled by creamy white carbonate (dolomite to Fe-carbonate), lesser colorless Qz and probably albite. These fractures and mm-cm veinlets are commonly oriented at higher angles, 35 to 65CA (dominantly at 40-50CA) and are not mineralized. The relationship between the two groups is not clear. Dissolution cavities along some Carb veinlets and fractures lined with crystals of Carb, Qz, Alb and minor fluorite.
252.80	257.50	FA 45 **Fracturé(e) 45°** Strong fracturing, straight and irregular fractures and mm-cm veinlets, tension gashes; fractures are mainly at 40 to 55CA; filled by creamy white carbonate (dolomite to Fe-carbonate) and minor colorless Qz Mostly non-mineralized. Minor dissolution cavities.

From	To	Len	SampleID	Au (ppm)	Method	Certificate
261.00	262.00		A0104270	0.0060	Au-ICP21	VO20089354
262.00	263.00		A0104271	0.0180	Au-ICP21	VO20089354
263.00	264.00		A0104272	0.0300	Au-ICP21	VO20089354
264.00	265.00		A0104274	0.0340	Au-ICP21	VO20089354
265.00	266.00		A0104275	0.0280	Au-ICP21	VO20089354
266.00	267.00		A0104276	0.0070	Au-ICP21	VO20089354
267.00	268.00		A0104277	0.0260	Au-ICP21	VO20089354
268.00	269.00		A0104278	0.0540	Au-ICP21	VO20089354
269.00	270.00		A0104279	0.0100	Au-ICP21	VO20089354
270.00	271.00		A0104280	0.0240	Au-ICP21	VO20089354
271.00	272.00		A0104281	0.0270	Au-ICP21	VO20089354
272.00	273.00		A0104282	0.0200	Au-ICP21	VO20089354
273.00	274.00		A0104283	**0.3840**	Au-ICP21	VO20089354
274.00	275.00		A0104284	**0.3670**	Au-ICP21	VO20089354
275.00	276.00		A0104285	0.0140	Au-ICP21	VO20089354
276.00	277.00		A0104286	0.0300	Au-ICP21	VO20089354
277.00	278.00		A0104287	0.0320	Au-ICP21	VO20089354
278.00	279.00		A0104289	0.0430	Au-ICP21	VO20089354
279.00	280.00		A0104290	0.0520	Au-ICP21	VO20089354
280.00	281.00		A0104291	0.0340	Au-ICP21	VO20089354
281.00	282.00		A0104292	0.0530	Au-ICP21	VO20089354
282.00	283.00		A0104293	0.0440	Au-ICP21	VO20089354
283.00	284.00		A0104294	0.0290	Au-ICP21	VO20089354
284.00	285.00		A0104295	0.0290	Au-ICP21	VO20089354
285.00	286.00		A0104296	0.0260	Au-ICP21	VO20089354
286.00	287.00		A0104297	0.0360	Au-ICP21	VO20089354
287.00	288.00		A0104298	0.0310	Au-ICP21	VO20089354
288.00	289.00		A0104299	0.0510	Au-ICP21	VO20089354
289.00	290.00		A0104300	**0.1670**	Au-ICP21	VO20089354
290.00	291.00		A0104301	0.0490	Au-ICP21	VO20089354
291.00	292.00		A0104302	**0.1830**	Au-ICP21	VO20089354
292.00	293.00		A0104303	0.0590	Au-ICP21	VO20089354
293.00	294.00		A0104305	**1.2650**	Au-ICP21	VO20089354
294.00	295.00		A0104306	**0.8000**	Au-ICP21	VO20089354

295.00 **300.00** I2D

Syénite

Continuation of Syenite, stronger fracturing, crackle brecciation and a higher number of dissolution cavities with fluorite crystals. Stronger patchy grey silica alteration along fractures. Irregular patches and fragmented veinlets composed of creamy white carbonate. Fluorite, quart and carbonate crystals occur in dissolution cavities; there are also ofter non-identified minerals in cavities, probably related to carbonatite fluids (pale green sheeted mineral, red-orange fine grains).
Mineralization: 1-4% Py fine to med-size cubic grains, disseminated, in cavities, fine-grained aggregates in some fractures.

EOH

295.00 300.00 SI; CB; FL; AB

Silicification; Carbonatisation; Fluoritisation; Albitisation

Moderate to strong patchy, greyish silicification along fractures. Irregular patches and fragmented veinlets composed of creamy white carbonate. Fluorite, quartz, carbonate crystals in dissolution cavities; there are also ofter non-identified minerals in cavities, possibly related to carbonatite fluids (pale green sheeted mineral, red-orange fine grains).

295.00 300.00 PY03

Pyrite 3%

2-5% Py fine to med-size cubic grains, disseminated, in cavities, fine-grained aggregates in some fractures.

295.00 300.00 FA; BX

Fracturé(e); Bréchique

Strong fracturing and crackle brecciation, dissolution cavities along fractures. Fractures are variably oriented at a very wide range of angles (0-90CA). Fractures often have grey silicification halos. There are also creamy-white carbonate irregular, fragmented veinlets - tension gashes?

295.00	296.00	A0104307	**0.5090**	Au-ICP21	VO20089354
296.00	297.00	A0104308	**0.9740**	Au-ICP21	VO20089354
297.00	298.00	A0104309	**0.7030**	Au-ICP21	VO20089354
298.00	299.00	A0104310	**2.5600**	Au-ICP21	VO20089354
299.00	300.00	A0104311	**0.6400**	Au-ICP21	VO20089354

Downhole Survey

Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method	Distance	Azimuth	Dip	Method
0.00	331.90	-55.00	Collar	48.00	331.84	-56.15	Champ Gyro	57.00	331.80	-56.30	Champ Gyro
105.00	331.50	-56.20	Champ Gyro	132.00	331.30	-56.40	Reflex EZ-Gyro	162.00	331.50	-56.20	Reflex EZ-Gyro
192.00	333.00	-56.00	Reflex EZ-Gyro	222.00	332.30	-55.30	Reflex EZ-Gyro	252.00	331.70	-55.10	Reflex EZ-Gyro
282.00	332.70	-54.70	Reflex EZ-Gyro								

Assessment Report for the Douay Property

Winter 2020 Diamond Drilling Program

Douay Township, Quebec

Volume 4 of 5
Appendix 5: Assay Certificates – Drilling Winter 2020

Map sheets: NTS 32E09, 32E10
Latitude 49.51°N, Longitude 78.32°W
UTM NAD83 Zone 17: 5487450 N, 694100 E

For

Maple Gold Mines Ltd.
1111 West Hastings Street
Vancouver, British Columbia
V6E 2J3

Report Date: January 12, 2022

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 26-FEB-2020
Account: VISAU

CERTIFICATE VO20031322

Project: DOUAY

P.O. No.: Shipment MGM2002

This report is for 152 Drill Core samples submitted to our lab in Val d'Or, QC, Canada on 7-FEB-2020.

The following have access to data associated with this certificate:

WEBTRIEVE (AURVISTA) ACCESS EVEN STAVRE	VIVIAN PARK	FRED SPEIDEL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SPL-21d	Split sample - duplicate
LOG-21d	Sample logging - ClientBarCode Dup
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
PUL-31d	Pulverize Split - duplicate
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 26-FEB-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031322

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
B470298		2.23	0.002													
V469801		1.43	0.002													
V469802		1.59	0.001													
V469803		1.91	0.002													
V469804		2.27	0.002													
V469805		1.82	0.001													
V469806		2.02	0.003													
V469807		2.08	0.003													
V469808		0.07	2.98													
V469809		2.09	0.005													
V469810		2.04	0.003													
V469811		1.97	0.002													
V469812		2.19	0.001													
V469813		2.09	0.004													
V469814		2.38	0.003													
V469815		2.20	0.003													
V469816		2.48	0.004													
V469817		2.41	0.003													
V469818		2.47	0.002													
V469819		2.46	0.003													
V469820		2.29	0.003													
V469821		2.34	0.003	0.11	6.60	10.6	110	0.21	0.06	7.50	0.04	6.44	78.6	499	0.55	86.8
V469822		2.21	0.002													
V469823		2.18	0.002													
V469824		0.90	0.004													
V469825		1.22	0.004													
V469826		2.19	0.006													
V469827		2.24	0.003													
V469828		2.27	0.003													
V469829		2.32	0.002													
V469830		2.28	0.002													
V469831		2.39	0.002													
V469832		2.04	0.002													
V469833		2.49	0.002													
V469834		2.19	0.002													
V469835		2.17	0.005													
V469836		2.25	0.002													
V469837		2.26	0.002													
V469838		2.17	0.002													
V469839		2.18	0.002													

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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North Vancouver BC V7H 0A7
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www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 26-FEB-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031322

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
B470298																
V469801																
V469802																
V469803																
V469804																
V469805																
V469806																
V469807																
V469808																
V469809																
V469810																
V469811																
V469812																
V469813																
V469814																
V469815																
V469816																
V469817																
V469818																
V469819																
V469820																
V469821		8.19	12.70	0.10	1.0	0.054	0.37	2.4	21.2	6.28	1430	0.62	1.47	1.7	256	220
V469822																
V469823																
V469824																
V469825																
V469826																
V469827																
V469828																
V469829																
V469830																
V469831																
V469832																
V469833																
V469834																
V469835																
V469836																
V469837																
V469838																
V469839																

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CERTIFICATE OF ANALYSIS VO20031322

Sample Description	Method Analyte Units LOD	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
B470298																
V469801																
V469802																
V469803																
V469804																
V469805																
V469806																
V469807																
V469808																
V469809																
V469810																
V469811																
V469812																
V469813																
V469814																
V469815																
V469816																
V469817																
V469818																
V469819																
V469820																
V469821		0.8	15.3	<0.002	0.17	0.32	40.9	1	0.5	181.0	0.13	0.06	0.21	0.408	0.07	<0.1
V469822																
V469823																
V469824																
V469825																
V469826																
V469827																
V469828																
V469829																
V469830																
V469831																
V469832																
V469833																
V469834																
V469835																
V469836																
V469837																
V469838																
V469839																

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TORONTO ON M5H 3W4

Finalized Date: 26-FEB-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031322

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
B470298 V469801 V469802 V469803 V469804						
V469805 V469806 V469807 V469808 V469809						
V469810 V469811 V469812 V469813 V469814						
V469815 V469816 V469817 V469818 V469819						
V469820 V469821 V469822 V469823 V469824		242	0.9	13.1	82	26.9
V469825 V469826 V469827 V469828 V469829						
V469830 V469831 V469832 V469833 V469834						
V469835 V469836 V469837 V469838 V469839						

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CERTIFICATE OF ANALYSIS VO20031322

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V469840		0.71	0.001													
V469841		2.28	0.002													
V469842		2.21	0.002	0.11	6.59	8.4	30	0.18	0.05	6.11	0.04	7.05	65.1	434	0.58	184.5
V469843		2.22	0.002													
V469844		2.15	0.002													
V469845		2.31	0.003													
V469846		2.18	0.002													
V469847		2.10	0.001													
V469848		1.89	0.002													
V469849		1.92	0.003													
V469850		2.10	0.002													
V469851		1.95	0.002													
V469852		2.17	0.002													
V469853		1.83	0.005													
V469854		1.34	0.022													
V469855		1.20	0.002													
V469856		0.07	0.146													
V469857		1.36	0.004													
V469858		1.38	0.002													
V469859		2.25	0.002	0.16	6.15	3.2	520	1.10	0.31	8.09	0.15	81.0	53.5	401	5.37	74.3
V469860		1.99	0.002													
V469861		2.02	0.002													
V469862		2.18	0.001													
V469863		1.76	0.002													
V469864		1.95	0.001													
V469865		1.76	0.001													
V469866		1.55	0.001													
V469867		2.25	0.002													
V469868		2.11	0.001													
V469869		1.73	0.004													
V469870		1.12	0.003													
V469871		1.80	0.003													
V469872		1.82	0.002													
V469873		<0.02	0.002													
V469874		1.68	0.003													
V469875		1.99	0.003													
V469876		2.08	0.003													
V469877		2.69	0.003													
V469878		2.12	0.001													
V469879		2.23	0.004													

***** See Appendix Page for comments regarding this certificate *****

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CERTIFICATE OF ANALYSIS VO20031322

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V469840 V469841 V469842 V469843 V469844		8.62	13.10	0.06	1.3	0.057	0.18	2.7	52.0	6.85	1510	0.52	1.79	1.8	214	230
V469845 V469846 V469847 V469848 V469849																
V469850 V469851 V469852 V469853 V469854																
V469855 V469856 V469857 V469858 V469859		7.09	13.60	0.11	1.3	0.064	0.53	39.6	51.0	4.60	2070	8.63	1.89	8.1	221	200
V469860 V469861 V469862 V469863 V469864																
V469865 V469866 V469867 V469868 V469869																
V469870 V469871 V469872 V469873 V469874																
V469875 V469876 V469877 V469878 V469879																

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 26-FEB-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031322

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V469840 V469841 V469842 V469843 V469844		1.4	6.9	0.002	0.09	0.51	43.4	1	0.5	138.5	0.13	0.05	0.22	0.418	0.03	0.1
V469845 V469846 V469847 V469848 V469849																
V469850 V469851 V469852 V469853 V469854																
V469855 V469856 V469857 V469858 V469859		3.5	52.1	0.012	0.20	0.48	33.3	1	0.5	202	0.11	<0.05	14.55	0.324	0.39	1.3
V469860 V469861 V469862 V469863 V469864																
V469865 V469866 V469867 V469868 V469869																
V469870 V469871 V469872 V469873 V469874																
V469875 V469876 V469877 V469878 V469879																

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CERTIFICATE OF ANALYSIS VO20031322

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V469840 V469841 V469842 V469843 V469844		239	0.9	13.5	84	29.6
V469845 V469846 V469847 V469848 V469849						
V469850 V469851 V469852 V469853 V469854						
V469855 V469856 V469857 V469858 V469859		193	14.2	17.4	129	46.4
V469860 V469861 V469862 V469863 V469864						
V469865 V469866 V469867 V469868 V469869						
V469870 V469871 V469872 V469873 V469874						
V469875 V469876 V469877 V469878 V469879						

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Finalized Date: 26-FEB-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031322

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V469880		2.58	0.003													
V469881		2.09	0.003	0.05	7.51	8.7	560	0.91	0.12	10.10	0.05	9.41	58.9	210	0.40	29.2
V469882		2.52	0.002													
V469883		2.43	0.001													
V469884		1.97	0.003													
V469885		2.15	0.008													
V469886		2.31	0.006													
V469887		2.33	0.003													
V469888		0.77	0.001													
V469889		2.85	0.003													
V469890		2.31	0.004													
V469891		2.23	0.002													
V469892		2.67	0.002													
V469893		2.66	0.002													
V469894		2.65	0.002													
V469895		2.49	0.003													
V469896		2.73	0.007													
V469897		2.40	0.003													
V469898		2.41	0.003													
V469899		2.36	0.003													
V469900		2.07	0.003													
V469901		2.43	0.004	0.09	8.05	4.8	410	0.34	0.18	6.98	0.02	11.70	47.8	245	2.00	115.5
V469902		2.42	0.005													
V469903		2.49	0.012													
V469904		0.07	0.507													
V469905		2.51	0.006													
V469906		2.61	0.020													
V469907		2.49	0.004													
V469908		1.98	0.002													
V469909		2.22	0.004													
V469910		2.41	0.002													
V469911		2.54	0.002													
V469912		2.38	0.001													
V469913		2.44	0.003													
V469914		2.10	0.010													
V469915		2.20	0.014													
V469916		2.24	0.010													
V469917		2.20	0.006	0.14	5.67	2.9	1840	9.49	0.77	5.75	0.15	>500	41.6	137	1.39	184.5
V469918		2.45	0.013													
V469919		2.28	0.002													

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Finalized Date: 26-FEB-2020
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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031322

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V469880 V469881 V469882 V469883 V469884		5.68	14.05	0.06	1.0	0.052	0.17	4.3	11.0	1.24	2130	2.27	2.27	1.7	115.5	250
V469885 V469886 V469887 V469888 V469889																
V469890 V469891 V469892 V469893 V469894																
V469895 V469896 V469897 V469898 V469899																
V469900 V469901 V469902 V469903 V469904		7.09	15.95	0.08	0.9	0.045	0.56	6.1	27.0	2.45	1660	2.07	2.78	1.7	67.3	260
V469905 V469906 V469907 V469908 V469909																
V469910 V469911 V469912 V469913 V469914																
V469915 V469916 V469917 V469918 V469919		4.60	18.65	0.55	15.6	0.034	0.26	393	28.1	0.95	1900	2.55	3.70	60.0	79.3	180

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SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 26-FEB-2020
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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031322

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V469880 V469881 V469882 V469883 V469884		3.7	8.2	0.002	0.33	1.07	27.6	1	0.4	787	0.11	<0.05	0.19	0.392	0.05	0.5
V469885 V469886 V469887 V469888 V469889																
V469890 V469891 V469892 V469893 V469894																
V469895 V469896 V469897 V469898 V469899																
V469900 V469901 V469902 V469903 V469904		1.8	23.8	<0.002	0.60	0.43	44.2	1	0.5	528	0.11	0.07	0.17	0.440	0.24	0.1
V469905 V469906 V469907 V469908 V469909																
V469910 V469911 V469912 V469913 V469914																
V469915 V469916 V469917 V469918 V469919		42.9	20.1	0.005	0.45	0.45	17.4	1	1.2	302	0.66	<0.05	40.2	0.315	0.12	14.6

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Account: VISAU

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CERTIFICATE OF ANALYSIS VO20031322

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V469880 V469881 V469882 V469883 V469884		199	3.5	14.9	56	33.6
V469885 V469886 V469887 V469888 V469889						
V469890 V469891 V469892 V469893 V469894						
V469895 V469896 V469897 V469898 V469899						
V469900 V469901 V469902 V469903 V469904		254	4.7	16.0	68	28.2
V469905 V469906 V469907 V469908 V469909						
V469910 V469911 V469912 V469913 V469914						
V469915 V469916 V469917 V469918 V469919		134	3.1	41.2	140	>500

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CERTIFICATE OF ANALYSIS VO20031322

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V469920		1.00	0.004													
V469921		1.03	0.003													
V469922		2.11	0.003													
V469923		2.63	0.003													
V469924		2.31	0.006													
V469925		2.41	0.008													
V469926		2.19	0.006													
V469927		2.90	0.006													
V469928		2.66	0.003													
V469929		2.84	0.003													
V469930		2.19	0.003													
V469931		2.38	0.002													
V469932		2.49	0.002													
V469933		2.36	0.003													
V469934		2.19	0.004	0.11	7.67	3.4	320	0.85	0.22	6.09	0.03	77.2	64.8	266	3.72	120.0
V469935		2.72	0.003													
V469936		0.67	0.001													
V469937		2.07	0.003													
V469938		2.48	0.003													
V469939		1.99	0.004													
V469940		3.00	0.004													
V469941		2.44	0.003													
V469942		2.65	0.003													
V469943		2.65	0.001													
V469944		2.61	0.002													
V469945		2.30	0.004													
V469946		2.49	0.003													
V469947		2.42	0.003													
V469948		2.48	0.003													
V469949		2.27	0.003	0.09	8.27	4.4	260	0.64	0.12	7.39	0.05	48.8	53.1	255	2.16	40.1
V469950		1.85	0.002													
V469951		1.74	0.002													

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To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 26-FEB-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031322

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V469920																
V469921																
V469922																
V469923																
V469924																
V469925																
V469926																
V469927																
V469928																
V469929																
V469930																
V469931																
V469932																
V469933																
V469934		7.12	15.30	0.12	1.0	0.048	0.68	35.7	34.6	1.70	2050	2.89	4.00	6.3	144.0	330
V469935																
V469936																
V469937																
V469938																
V469939																
V469940																
V469941																
V469942																
V469943																
V469944																
V469945																
V469946																
V469947																
V469948																
V469949		7.95	17.05	0.10	1.1	0.067	0.52	18.7	21.9	2.29	2420	2.63	2.70	5.4	94.4	180
V469950																
V469951																

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CERTIFICATE OF ANALYSIS VO20031322

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V469920																
V469921																
V469922																
V469923																
V469924																
V469925																
V469926																
V469927																
V469928																
V469929																
V469930																
V469931																
V469932																
V469933																
V469934		2.9	45.0	0.004	0.62	0.35	33.7	1	0.4	788	0.13	0.05	2.01	0.403	0.34	0.3
V469935																
V469936																
V469937																
V469938																
V469939																
V469940																
V469941																
V469942																
V469943																
V469944																
V469945																
V469946																
V469947																
V469948																
V469949		2.4	33.4	<0.002	0.49	0.89	35.2	1	0.5	902	0.12	0.06	1.22	0.421	0.21	0.6
V469950																
V469951																

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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031322

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V469920						
V469921						
V469922						
V469923						
V469924						
V469925						
V469926						
V469927						
V469928						
V469929						
V469930						
V469931						
V469932						
V469933						
V469934		233	4.4	18.1	87	29.8
V469935						
V469936						
V469937						
V469938						
V469939						
V469940						
V469941						
V469942						
V469943						
V469944						
V469945						
V469946						
V469947						
V469948						
V469949		249	4.4	18.5	76	38.8
V469950						
V469951						

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Finalized Date: 26-FEB-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031322

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

CRU-31	CRU-QC	LOG-21	LOG-21d
LOG-23	PUL-31	PUL-31d	PUL-QC
SPL-21	SPL-21d	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	ME-MS61

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Finalized Date: 22-FEB-2020
Account: VISAU

CERTIFICATE VO20031325

Project: DOUAY

P.O. No.: Shipment MGM2002

This report is for 151 Drill Core samples submitted to our lab in Val d'Or, QC, Canada on 7-FEB-2020.

The following have access to data associated with this certificate:

WEBTRIEVE (AURVISTA) ACCESS EVEN STAVRE	VIVIAN PARK	FRED SPEIDEL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SPL-21d	Split sample - duplicate
LOG-21d	Sample logging - ClientBarCode Dup
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
PUL-31d	Pulverize Split - duplicate
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 22-FEB-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031325

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
V469952		0.07	2.86													
V469953		2.53	0.005													
V469954		2.81	0.008													
V469955		2.67	0.004													
V469956		2.72	0.004													
V469957		2.56	0.004													
V469958		2.57	0.003													
V469959		2.68	0.003													
V469960		2.14	0.003													
V469961		2.37	0.003													
V469962		2.33	0.004													
V469963		2.47	0.004													
V469964		2.45	0.004	0.08	8.24	13.3	280	0.26	0.21	6.13	0.02	6.35	58.4	300	2.60	75.0
V469965		2.56	0.004													
V469966		2.61	0.003													
V469967		2.39	0.003													
V469968		2.19	0.003													
V469969		<0.02	0.003													
V469970		2.71	0.004													
V469971		2.30	0.003													
V469972		2.41	0.003													
V469973		2.64	0.003													
V469974		2.56	0.004													
V469975		2.70	0.003													
V469976		2.57	0.003													
V469977		2.49	0.004													
V469978		2.63	0.005													
V469979		2.27	0.003	0.06	8.47	6.2	130	0.25	0.18	9.04	0.04	9.45	53.9	271	0.75	61.5
V469980		2.42	0.002													
V469981		2.11	0.002													
V469982		1.69	0.003													
V469983		2.33	0.002													
V469984		0.79	0.002													
V469985		2.52	0.003													
V469986		2.60	0.003													
V469987		2.38	0.004													
V469988		2.17	0.004													
V469989		2.13	0.004													
V469990		2.50	0.005													
V469991		2.60	0.004													

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Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031325

Sample Description	Method Analyte Units LOD	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10
V469952																
V469953																
V469954																
V469955																
V469956																
V469957																
V469958																
V469959																
V469960																
V469961																
V469962																
V469963																
V469964		6.60	17.25	0.07	0.7	0.061	1.07	2.2	43.0	1.55	1700	21.8	1.81	1.8	141.0	270
V469965																
V469966																
V469967																
V469968																
V469969																
V469970																
V469971																
V469972																
V469973																
V469974																
V469975																
V469976																
V469977																
V469978																
V469979		6.83	17.10	0.08	1.0	0.059	0.22	4.9	12.2	1.42	1980	3.84	2.12	1.8	144.5	220
V469980																
V469981																
V469982																
V469983																
V469984																
V469985																
V469986																
V469987																
V469988																
V469989																
V469990																
V469991																

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CERTIFICATE OF ANALYSIS VO20031325

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V469952																
V469953																
V469954																
V469955																
V469956																
V469957																
V469958																
V469959																
V469960																
V469961																
V469962																
V469963																
V469964		1.0	47.5	0.020	0.30	0.55	34.5	1	0.4	178.0	0.11	0.08	0.18	0.444	0.37	0.1
V469965																
V469966																
V469967																
V469968																
V469969																
V469970																
V469971																
V469972																
V469973																
V469974																
V469975																
V469976																
V469977																
V469978																
V469979		2.4	11.8	0.003	0.59	0.61	36.5	1	0.5	473	0.12	0.05	0.20	0.437	0.07	0.2
V469980																
V469981																
V469982																
V469983																
V469984																
V469985																
V469986																
V469987																
V469988																
V469989																
V469990																
V469991																

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CERTIFICATE OF ANALYSIS VO20031325

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V469952 V469953 V469954 V469955 V469956						
V469957 V469958 V469959 V469960 V469961						
V469962 V469963 V469964 V469965 V469966		258	2.1	13.5	57	23.0
V469967 V469968 V469969 V469970 V469971						
V469972 V469973 V469974 V469975 V469976						
V469977 V469978 V469979 V469980 V469981		255	8.7	16.3	65	32.6
V469982 V469983 V469984 V469985 V469986						
V469987 V469988 V469989 V469990 V469991						

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CERTIFICATE OF ANALYSIS VO20031325

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V469992		2.57	0.004													
V469993		2.42	0.005													
V469994		2.87	0.004													
V469995		2.60	0.004	0.15	8.90	4.0	180	0.42	0.52	8.04	0.03	25.6	47.1	255	0.79	203
V469996		2.18	0.004													
V469997		2.83	0.006													
V469998		2.46	0.009													
V469999		2.35	0.015													
V470000		0.07	0.145													
V470001		2.30	0.012													
V470002		2.53	0.005													
V470003		2.49	0.006													
V470004		2.21	0.006													
V470005		2.41	0.007													
V470006		2.32	0.004													
V470007		2.41	0.004													
V470008		0.07	0.142													
V470009		2.56	0.003													
V470010		2.47	0.003	0.08	8.14	4.8	290	0.30	0.15	4.50	0.02	6.39	59.8	296	2.87	89.0
V470011		2.10	0.003													
V470012		2.06	0.004													
V470013		2.26	0.006													
V470014		2.64	0.005													
V470015		2.23	0.003													
V470016		2.15	0.003													
V470017		2.15	0.003													
V470018		2.19	0.002													
V470019		2.17	0.003													
V470020		2.25	0.005													
V470021		2.25	0.002													
V470022		2.04	0.004													
V470023		1.63	0.003													
V470024		0.96	0.004													
V470025		1.00	0.004													
V470026		2.05	0.002	0.13	7.79	5.5	110	2.63	0.28	5.78	0.04	15.40	47.8	245	0.45	119.0
V470027		2.09	0.002													
V470028		1.91	0.002													
V470029		1.78	0.002													
V470030		2.33	0.005													
V470031		2.03	0.004													

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CERTIFICATE OF ANALYSIS VO20031325

Sample Description	Method Analyte Units LOD	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10
V469992 V469993 V469994 V469995 V469996		7.98	17.80	0.09	1.1	0.059	0.21	16.0	19.9	2.28	2140	0.86	2.79	2.0	76.9	300
V469997 V469998 V469999 V470000 V470001																
V470002 V470003 V470004 V470005 V470006																
V470007 V470008 V470009 V470010 V470011		6.93	15.55	0.09	0.8	0.047	1.20	2.2	60.5	1.77	1750	0.98	2.24	1.8	174.5	290
V470012 V470013 V470014 V470015 V470016																
V470017 V470018 V470019 V470020 V470021																
V470022 V470023 V470024 V470025 V470026		6.68	15.55	0.12	1.0	0.063	0.13	4.5	40.5	1.49	2400	13.10	3.87	3.5	131.0	210
V470027 V470028 V470029 V470030 V470031																

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CERTIFICATE OF ANALYSIS VO20031325

Sample Description	Method Analyte Units LOD	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
V469992 V469993 V469994 V469995 V469996		3.2	7.5	<0.002	1.28	0.72	46.2	1	0.5	764	0.13	0.27	0.22	0.499	0.09	0.2
V469997 V469998 V469999 V470000 V470001																
V470002 V470003 V470004 V470005 V470006																
V470007 V470008 V470009 V470010 V470011		1.2	63.9	0.003	0.40	0.50	29.0	1	0.4	170.0	0.11	0.11	0.19	0.437	0.39	0.1
V470012 V470013 V470014 V470015 V470016																
V470017 V470018 V470019 V470020 V470021																
V470022 V470023 V470024 V470025 V470026		4.3	6.7	0.008	0.41	1.04	28.7	1	0.5	343	0.10	0.12	8.49	0.350	0.04	0.9
V470027 V470028 V470029 V470030 V470031																

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CERTIFICATE OF ANALYSIS VO20031325

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V469992 V469993 V469994 V469995 V469996		287	5.3	17.3	64	36.9
V469997 V469998 V469999 V470000 V470001						
V470002 V470003 V470004 V470005 V470006						
V470007 V470008 V470009 V470010 V470011		230	2.5	14.1	71	25.2
V470012 V470013 V470014 V470015 V470016						
V470017 V470018 V470019 V470020 V470021						
V470022 V470023 V470024 V470025 V470026		206	26.6	29.4	82	40.0
V470027 V470028 V470029 V470030 V470031						

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CERTIFICATE OF ANALYSIS VO20031325

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V470032		2.32	0.002													
V470033		2.18	0.001													
V470034		2.45	0.002													
V470035		1.85	0.003													
V470036		2.23	0.003													
V470037		2.26	0.002													
V470038		2.13	0.002													
V470039		2.11	0.005													
V470040		0.69	0.001													
V470041		2.06	0.009	0.17	7.55	3.3	150	0.92	0.45	7.25	0.06	48.1	46.6	245	2.00	131.5
V470042		2.06	0.003													
V470043		2.47	0.004													
V470044		2.08	0.001													
V470045		2.08	0.002													
V470046		2.25	0.004													
V470047		2.11	0.005													
V470048		2.03	0.008													
V470049		2.27	0.007													
V470050		2.15	0.004													
V470051		2.12	0.003													
V470052		2.01	0.001													
V470053		2.07	0.003													
V470054		2.20	0.002													
V470055		2.28	0.002													
V470056		0.07	0.501													
V470057		2.63	0.002	0.18	8.09	6.8	230	0.44	0.12	6.63	0.06	10.45	53.0	259	2.56	110.0
V470058		2.10	0.002													
V470059		2.23	0.002													
V470060		2.21	0.002													
V470061		1.96	0.004													
V470062		2.28	0.004													
V470063		2.21	0.009													
V470064		2.33	0.003													
V470065		2.31	0.003													
V470066		2.02	0.003													
V470067		2.34	0.002													
V470068		2.26	0.002													
V470069		2.19	0.001													
V470070		2.23	0.003													
V470071		2.20	0.004													

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V470032																
V470033																
V470034																
V470035																
V470036																
V470037																
V470038																
V470039																
V470040																
V470041		7.85	15.60	0.14	1.2	0.089	0.60	21.9	62.4	2.25	2340	12.40	3.86	8.7	123.0	680
V470042																
V470043																
V470044																
V470045																
V470046																
V470047																
V470048																
V470049																
V470050																
V470051																
V470052																
V470053																
V470054																
V470055																
V470056																
V470057		6.21	14.90	0.09	1.0	0.048	0.87	5.1	28.2	1.61	2050	12.65	2.67	1.8	104.0	260
V470058																
V470059																
V470060																
V470061																
V470062																
V470063																
V470064																
V470065																
V470066																
V470067																
V470068																
V470069																
V470070																
V470071																

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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031325

Sample Description	Method Analyte Units LOD	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
V470032																
V470033																
V470034																
V470035																
V470036																
V470037																
V470038																
V470039																
V470040																
V470041		4.9	40.1	0.016	1.25	1.09	31.8	2	0.5	393	0.16	0.08	1.54	0.399	0.19	0.7
V470042																
V470043																
V470044																
V470045																
V470046																
V470047																
V470048																
V470049																
V470050																
V470051																
V470052																
V470053																
V470054																
V470055																
V470056																
V470057		3.2	48.4	0.017	0.32	0.65	31.8	1	0.4	192.0	0.12	<0.05	0.21	0.436	0.24	0.2
V470058																
V470059																
V470060																
V470061																
V470062																
V470063																
V470064																
V470065																
V470066																
V470067																
V470068																
V470069																
V470070																
V470071																

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 22-FEB-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031325

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V470032						
V470033						
V470034						
V470035						
V470036						
V470037						
V470038						
V470039						
V470040						
V470041		234	7.6	13.6	79	46.1
V470042						
V470043						
V470044						
V470045						
V470046						
V470047						
V470048						
V470049						
V470050						
V470051						
V470052						
V470053						
V470054						
V470055						
V470056						
V470057		230	3.0	16.5	63	29.0
V470058						
V470059						
V470060						
V470061						
V470062						
V470063						
V470064						
V470065						
V470066						
V470067						
V470068						
V470069						
V470070						
V470071						

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CERTIFICATE OF ANALYSIS VO20031325

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V470072		2.21	0.009	0.20	7.37	4.3	450	0.88	0.28	5.96	0.05	8.06	56.8	246	5.12	127.0
V470073		<0.02	0.008													
V470074		2.15	0.008													
V470075		2.33	0.004													
V470076		2.10	0.002													
V470077		1.88	0.003													
V470078		2.22	0.009													
V470079		2.35	0.004													
V470080		2.25	0.001													
V470081		2.01	0.003													
V470082		2.09	0.002													
V470083		2.33	0.002													
V470084		2.42	0.001													
V470085		2.00	0.001													
V470086		2.23	0.002													
V470087		2.27	0.002	0.07	5.84	3.3	290	1.22	0.25	3.55	0.03	6.09	34.6	199	3.28	38.2
V470088		0.96	0.001													
V470089		2.55	0.002													
V470090		2.24	0.002													
V470091		2.19	0.008													
V470092		2.36	0.005													
V470093		2.03	0.003													
V470094		2.20	0.003													
V470095		3.69	0.002													
V470096		2.68	0.002													
V470097		1.95	0.001													
V470098		1.51	0.001													
V470099		1.04	0.001													
V470100		1.22	0.001													
V470101		1.87	0.001													
V470102		2.08	0.001													

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1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 22-FEB-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031325

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V470072 V470073 V470074 V470075 V470076		6.34	14.45	0.11	1.2	0.052	2.06	3.6	90.9	1.50	1860	1.21	2.58	1.7	100.0	200
V470077 V470078 V470079 V470080 V470081																
V470082 V470083 V470084 V470085 V470086																
V470087 V470088 V470089 V470090 V470091		5.33	11.75	0.09	0.8	0.036	1.10	2.6	63.2	1.28	1740	1.40	2.64	1.3	57.8	210
V470092 V470093 V470094 V470095 V470096																
V470097 V470098 V470099 V470100 V470101																
V470102																

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CERTIFICATE OF ANALYSIS VO20031325

Sample Description	Method Analyte Units LOD	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
V470072 V470073 V470074 V470075 V470076		3.1	136.5	<0.002	1.38	0.37	30.9	1	0.3	183.0	0.10	0.10	0.39	0.388	0.60	0.1
V470077 V470078 V470079 V470080 V470081																
V470082 V470083 V470084 V470085 V470086																
V470087 V470088 V470089 V470090 V470091		1.7	64.9	0.002	0.31	0.24	25.5	1	0.3	102.0	0.08	<0.05	0.16	0.320	0.30	0.1
V470092 V470093 V470094 V470095 V470096																
V470097 V470098 V470099 V470100 V470101																
V470102																

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CERTIFICATE OF ANALYSIS VO20031325

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V470072 V470073 V470074 V470075 V470076		222	7.4	12.9	52	37.2
V470077 V470078 V470079 V470080 V470081						
V470082 V470083 V470084 V470085 V470086						
V470087 V470088 V470089 V470090 V470091		168	5.2	10.1	57	23.0
V470092 V470093 V470094 V470095 V470096						
V470097 V470098 V470099 V470100 V470101						
V470102						

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Finalized Date: 22-FEB-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031325

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

CRU-31	CRU-QC	LOG-21	LOG-21d
LOG-23	PUL-31	PUL-31d	PUL-QC
SPL-21	SPL-21d	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	ME-MS61

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Finalized Date: 23-FEB-2020
Account: VISAU

CERTIFICATE VO20031327

Project: DOUAY

P.O. No.: Shipment MGM2002

This report is for 151 Drill Core samples submitted to our lab in Val d'Or, QC, Canada on 7-FEB-2020.

The following have access to data associated with this certificate:

WEBTRIEVE (AURVISTA) ACCESS EVEN STAVRE	VIVIAN PARK	FRED SPEIDEL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SPL-21d	Split sample - duplicate
LOG-21d	Sample logging - ClientBarCode Dup
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
PUL-31d	Pulverize Split - duplicate
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031327

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
V470103		2.13	<0.001													
V470104		0.07	3.02													
V470105		1.89	<0.001													
V470106		2.83	<0.001	0.18	6.85	3.4	550	1.83	0.19	6.02	0.09	252	46.6	73	11.30	133.0
V470107		2.32	<0.001													
V470108		1.68	<0.001													
V470109		2.01	<0.001													
V470110		2.03	<0.001													
V470111		1.55	<0.001													
V470112		2.72	<0.001													
V470113		2.64	0.001													
V470114		2.32	<0.001													
V470115		2.22	<0.001													
V470116		2.37	<0.001													
V470117		2.24	<0.001													
V470118		2.60	<0.001													
V470119		2.32	<0.001													
V470120		1.10	<0.001													
V470121		1.10	<0.001													
V470122		1.96	<0.001	0.07	7.10	1.3	940	0.87	0.12	6.33	0.07	14.40	53.3	76	8.57	119.0
V470123		2.91	<0.001													
V470124		1.63	<0.001													
V470125		2.24	<0.001													
V470126		2.31	<0.001													
V470127		2.24	<0.001													
V470128		1.04	0.001													
V470129		1.26	<0.001													
V470130		1.87	0.007													
V470131		1.36	0.005													
V470132		2.18	0.006													
V470133		1.42	0.001													
V470134		1.41	0.009													
V470135		1.39	0.009													
V470136		0.65	<0.001													
V470137		1.34	0.016	1.98	2.36	88.6	10	0.13	4.13	2.76	0.20	54.1	88.2	16	6.37	985
V470138		2.40	0.002													
V470139		1.87	<0.001													
V470140		1.18	<0.001													
V470141		2.44	<0.001													
V470142		2.60	<0.001													

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To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031327

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V470103 V470104 V470105 V470106 V470107		13.95	16.60	0.26	1.5	0.066	1.10	180.5	120.0	3.41	4110	0.54	3.61	2.2	76.3	280
V470108 V470109 V470110 V470111 V470112																
V470113 V470114 V470115 V470116 V470117																
V470118 V470119 V470120 V470121 V470122		10.30	16.70	0.10	1.6	0.062	0.55	6.3	83.5	2.86	2810	0.58	4.20	2.6	119.0	330
V470123 V470124 V470125 V470126 V470127																
V470128 V470129 V470130 V470131 V470132																
V470133 V470134 V470135 V470136 V470137		25.3	7.92	0.12	1.5	0.124	0.12	32.3	9.4	1.52	2550	46.2	0.03	2.2	261	190
V470138 V470139 V470140 V470141 V470142																

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CERTIFICATE OF ANALYSIS VO20031327

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V470103 V470104 V470105 V470106 V470107		4.1	97.9	<0.002	1.05	0.39	47.5	1	0.5	422	0.12	0.10	1.14	0.489	0.59	1.3
V470108 V470109 V470110 V470111 V470112																
V470113 V470114 V470115 V470116 V470117																
V470118 V470119 V470120 V470121 V470122		2.3	50.0	<0.002	0.89	0.35	47.3	1	0.5	287	0.13	<0.05	0.32	0.505	0.40	0.2
V470123 V470124 V470125 V470126 V470127																
V470128 V470129 V470130 V470131 V470132																
V470133 V470134 V470135 V470136 V470137		21.4	13.4	0.038	>10.0	2.01	8.4	6	1.0	59.0	0.15	2.77	1.04	0.111	0.02	0.5
V470138 V470139 V470140 V470141 V470142																

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CERTIFICATE OF ANALYSIS VO20031327

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V470103 V470104 V470105 V470106 V470107		268	2.8	24.6	153	55.1
V470108 V470109 V470110 V470111 V470112						
V470113 V470114 V470115 V470116 V470117						
V470118 V470119 V470120 V470121 V470122		273	3.5	20.7	122	50.2
V470123 V470124 V470125 V470126 V470127						
V470128 V470129 V470130 V470131 V470132						
V470133 V470134 V470135 V470136 V470137		38	2.4	8.9	128	55.6
V470138 V470139 V470140 V470141 V470142						

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CERTIFICATE OF ANALYSIS VO20031327

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V470143		2.50	<0.001													
V470144		2.13	<0.001													
V470145		2.21	<0.001													
V470146		2.12	0.003													
V470147		2.31	0.001													
V470148		2.23	0.003													
V470149		2.28	0.003													
V470150		2.34	<0.001													
V470151		2.22	0.001													
V470152		0.07	0.142													
V470153		2.42	<0.001	0.07	8.27	3.5	10	0.26	0.20	8.84	0.03	7.86	47.9	175	0.27	56.8
V470154		2.37	<0.001													
V470155		2.29	<0.001													
V470156		2.35	<0.001													
V470157		2.44	<0.001													
V470158		2.28	0.003													
V470159		2.18	0.002													
V470160		2.38	<0.001													
V470161		2.36	0.002													
V470162		3.18	0.001													
V470163		1.91	<0.001													
V470164		1.80	0.008													
V470165		1.56	<0.001													
V470166		2.29	<0.001													
V470167		1.83	<0.001													
V470168		2.20	<0.001													
V470169		<0.02	<0.001													
V470170		2.13	<0.001													
V470171		2.25	<0.001	0.15	7.67	3.4	240	1.22	0.29	8.27	0.13	12.80	50.4	158	5.25	152.5
V470172		2.64	<0.001													
V470173		2.28	<0.001													
V470174		2.23	<0.001													
V470175		1.53	<0.001													
V470176		1.72	<0.001													
V470177		2.83	<0.001													
V470178		2.52	<0.001													
V470179		2.67	<0.001													
V470180		2.25	<0.001													
V470181		2.32	<0.001													
V470182		2.23	<0.001													

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 23-FEB-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031327

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V470143																
V470144																
V470145																
V470146																
V470147																
V470148																
V470149																
V470150																
V470151																
V470152																
V470153		9.00	18.70	0.05	1.6	0.077	0.01	2.9	46.5	3.12	2820	13.45	0.13	2.3	118.5	290
V470154																
V470155																
V470156																
V470157																
V470158																
V470159																
V470160																
V470161																
V470162																
V470163																
V470164																
V470165																
V470166																
V470167																
V470168																
V470169																
V470170																
V470171		9.02	17.90	0.06	1.4	0.086	0.73	7.3	55.9	2.68	3440	3.06	3.14	2.5	107.0	290
V470172																
V470173																
V470174																
V470175																
V470176																
V470177																
V470178																
V470179																
V470180																
V470181																
V470182																

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CERTIFICATE OF ANALYSIS VO20031327

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V470143																
V470144																
V470145																
V470146																
V470147																
V470148																
V470149																
V470150																
V470151																
V470152																
V470153		2.3	0.3	0.010	0.55	2.18	43.8	1	0.8	244	0.15	0.14	0.25	0.579	<0.02	0.1
V470154																
V470155																
V470156																
V470157																
V470158																
V470159																
V470160																
V470161																
V470162																
V470163																
V470164																
V470165																
V470166																
V470167																
V470168																
V470169																
V470170																
V470171		6.3	56.9	<0.002	1.15	0.48	41.4	1	0.9	713	0.15	<0.05	0.39	0.522	0.37	0.1
V470172																
V470173																
V470174																
V470175																
V470176																
V470177																
V470178																
V470179																
V470180																
V470181																
V470182																

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Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V470143						
V470144						
V470145						
V470146						
V470147						
V470148						
V470149						
V470150						
V470151						
V470152						
V470153		295	1.8	20.0	134	43.7
V470154						
V470155						
V470156						
V470157						
V470158						
V470159						
V470160						
V470161						
V470162						
V470163						
V470164						
V470165						
V470166						
V470167						
V470168						
V470169						
V470170						
V470171		261	2.2	18.8	201	44.1
V470172						
V470173						
V470174						
V470175						
V470176						
V470177						
V470178						
V470179						
V470180						
V470181						
V470182						

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CERTIFICATE OF ANALYSIS VO20031327

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V470183		2.22	<0.001													
V470184		0.89	<0.001													
V470185		2.18	<0.001													
V470186		2.16	<0.001													
V470187		2.20	0.001	0.11	7.63	3.0	900	0.62	0.25	7.93	0.11	21.6	49.2	174	3.23	199.0
V470188		1.92	<0.001													
V470189		2.15	<0.001													
V470190		2.48	<0.001													
V470191		2.07	<0.001													
V470192		2.11	<0.001													
V470193		2.41	<0.001													
V470194		2.15	<0.001													
V470195		2.17	<0.001													
V470196		2.14	<0.001													
V470197		2.71	0.001													
V470198		1.55	<0.001													
V470199		2.05	<0.001													
V470200		0.07	0.514													
V470201		2.23	0.001													
V470202		2.00	<0.001	0.06	7.76	5.0	510	0.40	0.18	8.60	0.08	21.6	46.8	188	0.96	75.1
V470203		2.19	<0.001													
V470204		2.53	<0.001													
V470205		1.85	<0.001													
V470206		2.13	0.018													
V470207		2.20	<0.001													
V470208		0.07	3.04													
V470209		2.19	<0.001													
V470210		2.30	<0.001													
V470211		2.29	<0.001													
V470212		2.33	<0.001													
V470213		2.33	<0.001													
V470214		2.18	<0.001													
V470215		2.32	<0.001													
V470216		2.46	<0.001													
V470217		2.51	<0.001	0.24	7.89	4.2	1020	0.74	0.27	6.01	0.11	30.3	49.6	186	8.55	380
V470218		2.26	<0.001													
V470219		2.32	<0.001													
V470220		2.34	<0.001													
V470221		2.30	<0.001													
V470222		2.23	0.001													

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CERTIFICATE OF ANALYSIS VO20031327

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V470183																
V470184																
V470185																
V470186																
V470187		7.28	17.60	0.11	1.4	0.082	0.53	12.1	48.5	1.99	2150	1.65	3.64	2.4	135.0	280
V470188																
V470189																
V470190																
V470191																
V470192																
V470193																
V470194																
V470195																
V470196																
V470197																
V470198																
V470199																
V470200																
V470201																
V470202		6.90	18.00	0.12	1.2	0.069	0.29	13.4	17.7	2.12	2040	2.79	3.24	2.3	128.5	280
V470203																
V470204																
V470205																
V470206																
V470207																
V470208																
V470209																
V470210																
V470211																
V470212																
V470213																
V470214																
V470215																
V470216																
V470217		8.99	20.1	0.09	1.3	0.074	1.38	17.8	122.5	3.21	1880	2.08	2.98	3.9	86.8	330
V470218																
V470219																
V470220																
V470221																
V470222																

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CERTIFICATE OF ANALYSIS VO20031327

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V470183																
V470184																
V470185																
V470186																
V470187		4.2	37.8	<0.002	2.15	0.52	38.2	2	0.8	1290	0.14	0.10	0.33	0.514	0.23	0.3
V470188																
V470189																
V470190																
V470191																
V470192																
V470193																
V470194																
V470195																
V470196																
V470197																
V470198																
V470199																
V470200																
V470201																
V470202		2.6	14.0	0.002	1.94	0.68	39.9	1	0.6	835	0.14	0.05	0.26	0.536	0.10	0.3
V470203																
V470204																
V470205																
V470206																
V470207																
V470208																
V470209																
V470210																
V470211																
V470212																
V470213																
V470214																
V470215																
V470216																
V470217		4.8	99.2	<0.002	2.73	0.53	42.3	1	0.7	937	0.14	0.07	1.11	0.612	0.72	0.5
V470218																
V470219																
V470220																
V470221																
V470222																

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CERTIFICATE OF ANALYSIS VO20031327

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V470183						
V470184						
V470185						
V470186						
V470187		251	6.5	18.4	105	50.0
V470188						
V470189						
V470190						
V470191						
V470192						
V470193						
V470194						
V470195						
V470196						
V470197						
V470198						
V470199						
V470200						
V470201						
V470202		266	10.5	19.4	87	40.5
V470203						
V470204						
V470205						
V470206						
V470207						
V470208						
V470209						
V470210						
V470211						
V470212						
V470213						
V470214						
V470215						
V470216						
V470217		309	14.1	21.0	116	50.1
V470218						
V470219						
V470220						
V470221						
V470222						

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CERTIFICATE OF ANALYSIS VO20031327

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V470223		2.37	<0.001													
V470224		1.07	<0.001													
V470225		1.01	<0.001													
V470226		2.69	<0.001													
V470227		2.04	<0.001													
V470228		2.31	<0.001													
V470229		2.23	<0.001													
V470230		2.20	<0.001													
V470231		2.29	<0.001													
V470232		2.26	<0.001	0.20	6.01	3.2	640	0.92	0.35	6.97	0.11	29.5	49.4	94	3.95	448
V470233		2.21	<0.001													
V470234		2.24	<0.001													
V470235		2.33	<0.001													
V470236		2.52	<0.001													
V470237		2.03	<0.001													
V470238		2.26	<0.001													
V470239		2.29	<0.001													
V470240		0.83	<0.001													
V470241		2.52	<0.001													
V470242		2.22	<0.001													
V470243		2.19	<0.001													
V470244		2.26	<0.001													
V470245		2.22	<0.001													
V470246		2.39	<0.001													
V470247		2.14	<0.001	0.03	6.95	3.2	3200	0.26	0.08	8.18	0.06	18.20	41.9	236	1.29	41.9
V470248		2.22	<0.001													
V470249		2.23	0.004													
V470250		2.14	<0.001													
V470251		2.13	<0.001													
V470252		2.06	<0.001													
V470253		2.12	<0.001													

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CERTIFICATE OF ANALYSIS VO20031327

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V470223																
V470224																
V470225																
V470226																
V470227																
V470228																
V470229																
V470230																
V470231																
V470232		10.25	17.60	0.12	2.1	0.078	0.62	18.8	44.6	2.99	1900	3.79	3.75	3.8	50.2	450
V470233																
V470234																
V470235																
V470236																
V470237																
V470238																
V470239																
V470240																
V470241																
V470242																
V470243																
V470244																
V470245																
V470246																
V470247		6.78	16.00	0.09	1.1	0.061	0.42	10.3	40.2	4.04	1680	2.38	2.36	2.0	115.0	260
V470248																
V470249																
V470250																
V470251																
V470252																
V470253																

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V470223																
V470224																
V470225																
V470226																
V470227																
V470228																
V470229																
V470230																
V470231																
V470232		3.1	43.6	0.002	2.87	0.24	36.8	3	0.7	404	0.22	0.06	0.66	0.506	0.30	0.3
V470233																
V470234																
V470235																
V470236																
V470237																
V470238																
V470239																
V470240																
V470241																
V470242																
V470243																
V470244																
V470245																
V470246																
V470247		2.0	21.8	0.002	1.64	0.43	38.0	1	0.5	698	0.13	<0.05	0.19	0.487	0.13	0.2
V470248																
V470249																
V470250																
V470251																
V470252																
V470253																

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 23-FEB-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031327

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V470223						
V470224						
V470225						
V470226						
V470227						
V470228						
V470229						
V470230						
V470231						
V470232		248	2.5	25.5	98	78.2
V470233						
V470234						
V470235						
V470236						
V470237						
V470238						
V470239						
V470240						
V470241						
V470242						
V470243						
V470244						
V470245						
V470246						
V470247		250	4.6	19.1	78	32.1
V470248						
V470249						
V470250						
V470251						
V470252						
V470253						

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CERTIFICATE OF ANALYSIS VO20031327

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

CRU-31	CRU-QC	LOG-21	LOG-21d
LOG-23	PUL-31	PUL-31d	PUL-QC
SPL-21	SPL-21d	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	ME-MS61

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TORONTO ON M5H 3W4

Finalized Date: 22-FEB-2020
Account: VISAU

CERTIFICATE VO20031331

Project: DOUAY

P.O. No.: Shipment MGM2002

This report is for 151 Drill Core samples submitted to our lab in Val d'Or, QC, Canada on 6-FEB-2020.

The following have access to data associated with this certificate:

WEBTRIEVE (AURVISTA) ACCESS EVEN STAVRE	VIVIAN PARK	FRED SPEIDEL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SPL-21d	Split sample - duplicate
LOG-21d	Sample logging - ClientBarCode Dup
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
PUL-31d	Pulverize Split - duplicate
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031331

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
V470254		2.21	0.001													
V470255		2.25	0.001													
V470256		0.07	0.145													
V470257		2.20	0.002													
V470258		2.22	0.002													
V470259		2.22	0.001													
V470260		1.80	0.001													
V470261		2.53	0.001													
V470262		2.52	0.001	0.03	7.48	4.3	2490	0.24	0.09	6.39	0.05	6.67	64.6	139	3.12	51.6
V470263		1.98	0.001													
V470264		2.18	0.002													
V470265		2.23	0.003													
V470266		2.37	0.002													
V470267		2.26	0.001													
V470268		2.26	0.002													
V470269		2.19	0.004													
V470270		2.19	0.001													
V470271		2.29	0.001													
V470272		2.66	0.001													
V470273		<0.02	0.001													
V470274		1.69	0.001													
V470275		1.93	0.002													
V470276		2.31	0.001													
V470277		2.06	0.001	0.02	7.18	4.7	870	0.24	0.02	5.55	0.05	6.89	64.4	142	3.61	28.2
V470278		2.19	0.001													
V470279		2.22	0.001													
V470280		2.20	0.001													
V470281		2.27	0.001													
V470282		1.98	0.002													
V470283		2.14	0.001													
V470284		2.38	0.001													
V470285		2.21	<0.001													
V470286		2.13	0.001													
V470287		2.25	0.007													
V470288		0.77	0.001													
V470289		2.23	0.002													
V470290		2.18	0.003													
V470291		1.94	0.002													
V470292		2.13	0.001	0.04	8.12	3.7	410	0.55	0.04	4.14	0.03	6.91	57.6	194	3.48	69.1
V470293		2.10	0.002													

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North Vancouver BC V7H 0A7
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SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 22-FEB-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031331

Sample Description	Method Analyte Units LOD	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10
V470254																
V470255																
V470256																
V470257																
V470258																
V470259																
V470260																
V470261																
V470262		8.55	16.50	0.12	1.0	0.060	1.11	2.5	57.0	5.16	2040	1.37	1.38	1.9	226	230
V470263																
V470264																
V470265																
V470266																
V470267																
V470268																
V470269																
V470270																
V470271																
V470272																
V470273																
V470274																
V470275																
V470276																
V470277		7.41	15.40	0.11	1.3	0.062	0.91	2.5	73.3	4.89	1640	0.29	1.77	2.1	262	260
V470278																
V470279																
V470280																
V470281																
V470282																
V470283																
V470284																
V470285																
V470286																
V470287																
V470288																
V470289																
V470290																
V470291																
V470292		3.24	19.70	0.12	1.1	0.061	0.96	2.8	76.6	2.86	915	13.00	4.32	2.4	151.5	300
V470293																

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CERTIFICATE OF ANALYSIS VO20031331

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V470254 V470255 V470256 V470257 V470258																
V470259 V470260 V470261 V470262 V470263		1.0	56.6	0.002	0.28	0.47	33.0	1	0.5	175.5	0.12	<0.05	0.18	0.462	0.40	0.1
V470264 V470265 V470266 V470267 V470268																
V470269 V470270 V470271 V470272 V470273																
V470274 V470275 V470276 V470277 V470278		0.7	55.9	<0.002	0.16	0.57	32.2	1	0.5	167.5	0.13	<0.05	0.20	0.489	0.34	0.1
V470279 V470280 V470281 V470282 V470283																
V470284 V470285 V470286 V470287 V470288																
V470289 V470290 V470291 V470292 V470293		1.0	34.8	0.012	0.54	0.26	36.6	1	0.4	180.0	0.16	0.05	0.16	0.599	0.34	0.1

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CERTIFICATE OF ANALYSIS VO20031331

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V470254						
V470255						
V470256						
V470257						
V470258						
V470259						
V470260						
V470261						
V470262		240	1.9	16.3	67	35.5
V470263						
V470264						
V470265						
V470266						
V470267						
V470268						
V470269						
V470270						
V470271						
V470272						
V470273						
V470274						
V470275						
V470276						
V470277		234	1.7	17.0	66	36.3
V470278						
V470279						
V470280						
V470281						
V470282						
V470283						
V470284						
V470285						
V470286						
V470287						
V470288						
V470289						
V470290						
V470291						
V470292		299	4.3	13.4	44	36.0
V470293						

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Finalized Date: 22-FEB-2020
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CERTIFICATE OF ANALYSIS VO20031331

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V470294		2.09	0.003													
V470295		2.24	0.002													
V470296		2.07	0.002													
V470297		2.07	0.004													
V470298		2.21	0.002													
V470299		2.30	0.001													
V470300		2.13	0.003													
V470301		2.08	0.002													
V470302		2.36	0.003													
V470303		2.09	0.002													
V470304		0.07	0.511													
V470305		2.22	0.002													
V470306		2.37	0.002													
V470307		2.14	0.002	0.03	8.63	4.8	420	0.58	0.05	7.20	0.03	51.5	52.1	180	2.99	42.8
V470308		2.13	<0.001													
V470309		2.18	0.002													
V470310		2.50	<0.001													
V470311		2.15	0.002													
V470312		2.17	0.002													
V470313		2.30	<0.001													
V470314		2.30	<0.001													
V470315		2.45	0.002													
V470316		2.68	<0.001													
V470317		2.44	0.001													
V470318		2.57	<0.001													
V470319		2.43	<0.001													
V470320		1.06	0.002													
V470321		1.02	0.002													
V470322		1.88	0.003	0.08	7.68	2.6	650	0.30	0.09	6.95	0.02	9.39	79.2	168	4.82	178.0
V470323		2.41	0.001													
V470324		2.13	<0.001													
V470325		2.20	<0.001													
V470326		2.31	<0.001													
V470327		2.39	<0.001													
V470328		2.20	<0.001													
V470329		2.43	<0.001													
V470330		2.48	<0.001													
V470331		2.48	<0.001													
V470332		2.38	<0.001													
V470333		2.41	0.001													

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CERTIFICATE OF ANALYSIS VO20031331

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V470294 V470295 V470296 V470297 V470298																
V470299 V470300 V470301 V470302 V470303																
V470304 V470305 V470306 V470307 V470308		3.88	19.90	0.17	1.7	0.072	0.97	27.9	42.9	2.87	904	3.99	3.06	2.7	159.0	360
V470309 V470310 V470311 V470312 V470313																
V470314 V470315 V470316 V470317 V470318																
V470319 V470320 V470321 V470322 V470323		4.87	16.20	0.13	1.2	0.072	1.19	8.1	83.2	2.22	1160	4.24	3.00	2.2	120.5	270
V470324 V470325 V470326 V470327 V470328																
V470329 V470330 V470331 V470332 V470333																

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CERTIFICATE OF ANALYSIS VO20031331

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V470294 V470295 V470296 V470297 V470298																
V470299 V470300 V470301 V470302 V470303																
V470304 V470305 V470306 V470307 V470308		1.2	63.6	0.003	1.39	0.39	42.5	1	0.7	600	0.17	0.05	0.51	0.612	0.30	0.4
V470309 V470310 V470311 V470312 V470313																
V470314 V470315 V470316 V470317 V470318																
V470319 V470320 V470321 V470322 V470323		0.5	62.9	0.004	1.15	0.17	41.0	2	0.5	140.5	0.14	0.05	0.19	0.535	0.27	0.1
V470324 V470325 V470326 V470327 V470328																
V470329 V470330 V470331 V470332 V470333																

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CERTIFICATE OF ANALYSIS VO20031331

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V470294						
V470295						
V470296						
V470297						
V470298						
V470299						
V470300						
V470301						
V470302						
V470303						
V470304						
V470305						
V470306						
V470307		293	3.0	19.5	48	57.8
V470308						
V470309						
V470310						
V470311						
V470312						
V470313						
V470314						
V470315						
V470316						
V470317						
V470318						
V470319						
V470320						
V470321						
V470322		265	4.3	16.6	71	31.7
V470323						
V470324						
V470325						
V470326						
V470327						
V470328						
V470329						
V470330						
V470331						
V470332						
V470333						

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Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V470334		2.34	0.001													
V470335		2.53	<0.001													
V470336		0.87	<0.001													
V470337		2.19	0.001	0.05	8.93	8.9	3450	0.41	0.15	7.51	0.03	22.2	61.2	190	2.59	93.9
V470338		2.40	0.002													
V470339		2.35	<0.001													
V470340		2.25	0.001													
V470341		2.26	0.002													
V470342		2.04	0.001													
V470343		1.98	0.004													
V470344		2.19	0.005													
V470345		2.52	0.008													
V470346		2.45	0.016													
V470347		2.16	0.009													
V470348		2.17	0.001													
V470349		2.30	0.001													
V470350		2.14	0.001													
V470351		2.59	0.001													
V470352		0.07	2.93													
V470353		2.56	0.002	0.27	6.79	5.1	340	0.29	1.03	6.35	0.09	27.1	51.2	148	1.73	409
V470354		2.35	0.003													
V470355		2.42	0.010													
V470356		2.31	0.010													
V470357		2.47	0.006													
V470358		2.30	0.002													
V470359		2.23	0.008													
V470360		2.74	0.001													
V470361		2.02	<0.001													
V470362		2.25	0.001													
V470363		2.29	0.001													
V470364		2.41	<0.001													
V470365		2.33	<0.001													
V470366		2.32	<0.001													
V470367		2.27	<0.001													
V470368		2.30	<0.001													
V470369		<0.02	<0.001													
V470370		2.25	<0.001	0.07	7.65	6.7	350	0.44	0.10	8.42	0.05	15.45	53.2	174	1.08	102.0
V470371		2.36	0.001													
V470372		2.17	<0.001													
V470373		2.27	<0.001													

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 22-FEB-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031331

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V470334 V470335 V470336 V470337 V470338		5.85	19.10	0.12	1.2	0.073	0.64	15.4	55.8	2.46	1480	1.92	3.48	2.4	134.0	290
V470339 V470340 V470341 V470342 V470343																
V470344 V470345 V470346 V470347 V470348																
V470349 V470350 V470351 V470352 V470353		8.79	14.65	0.10	1.4	0.078	0.79	19.6	66.2	2.21	2180	3.32	2.99	1.8	124.0	240
V470354 V470355 V470356 V470357 V470358																
V470359 V470360 V470361 V470362 V470363																
V470364 V470365 V470366 V470367 V470368																
V470369 V470370 V470371 V470372 V470373		8.09	16.45	0.09	1.2	0.065	0.40	10.4	33.6	2.24	2250	1.20	3.48	2.1	117.5	270

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CERTIFICATE OF ANALYSIS VO20031331

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V470334 V470335 V470336 V470337 V470338		2.6	28.6	<0.002	1.75	0.80	40.8	1	0.9	863	0.15	0.07	0.21	0.569	0.23	0.2
V470339 V470340 V470341 V470342 V470343																
V470344 V470345 V470346 V470347 V470348																
V470349 V470350 V470351 V470352 V470353		4.0	46.7	0.003	4.40	0.25	32.7	3	0.7	175.0	0.13	0.40	0.20	0.452	0.24	0.2
V470354 V470355 V470356 V470357 V470358																
V470359 V470360 V470361 V470362 V470363																
V470364 V470365 V470366 V470367 V470368																
V470369 V470370 V470371 V470372 V470373		3.2	23.1	<0.002	2.21	1.01	40.0	1	0.5	808	0.14	<0.05	0.19	0.525	0.12	0.1

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CERTIFICATE OF ANALYSIS VO20031331

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V470334 V470335 V470336 V470337 V470338		293	6.5	15.9	64	39.3
V470339 V470340 V470341 V470342 V470343						
V470344 V470345 V470346 V470347 V470348						
V470349 V470350 V470351 V470352 V470353		230	6.6	16.6	156	41.8
V470354 V470355 V470356 V470357 V470358						
V470359 V470360 V470361 V470362 V470363						
V470364 V470365 V470366 V470367 V470368						
V470369 V470370 V470371 V470372 V470373		268	6.2	19.9	74	53.2

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CERTIFICATE OF ANALYSIS VO20031331

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V470374		2.54	<0.001													
V470375		2.01	<0.001													
V470376		2.44	<0.001													
V470377		1.92	<0.001													
V470378		2.10	<0.001													
V470379		2.25	<0.001													
V470380		2.33	0.008													
V470381		2.29	0.009													
V470382		2.33	<0.001													
V470383		2.23	<0.001													
V470384		0.93	<0.001													
V470385		2.33	<0.001	0.10	8.07	5.9	250	0.42	0.12	7.03	0.04	8.00	52.3	210	0.92	89.7
V470386		2.80	<0.001													
V470387		2.36	0.001													
V470388		2.42	<0.001													
V470389		2.17	<0.001													
V470390		1.88	0.003													
V470391		2.59	0.006													
V470392		2.45	<0.001													
V470393		2.26	0.020													
V470394		2.25	0.002													
V470395		2.20	0.003													
V470396		2.12	<0.001													
V470397		2.15	<0.001													
V470398		1.99	0.002													
V470399		2.21	0.001													
V470400		0.07	0.134													
V470401		2.21	<0.001	0.24	6.88	2.4	2340	1.00	0.32	6.78	0.14	41.9	34.5	522	21.4	50.6
V470402		2.26	0.001													
V470403		2.24	0.002													
V470404		2.01	0.001													

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Finalized Date: 22-FEB-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031331

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V470374 V470375 V470376 V470377 V470378																
V470379 V470380 V470381 V470382 V470383																
V470384 V470385 V470386 V470387 V470388		6.04	16.70	0.06	1.0	0.065	0.37	3.0	30.3	2.56	1880	8.18	3.48	2.1	137.5	270
V470389 V470390 V470391 V470392 V470393																
V470394 V470395 V470396 V470397 V470398																
V470399 V470400 V470401 V470402 V470403		5.43	14.00	0.09	0.7	0.047	3.08	17.0	280	3.75	1660	1.09	3.07	3.1	86.3	160
V470404																

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CERTIFICATE OF ANALYSIS VO20031331

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V470374 V470375 V470376 V470377 V470378																
V470379 V470380 V470381 V470382 V470383																
V470384 V470385 V470386 V470387 V470388		3.6	18.9	0.007	0.56	0.85	43.9	1	0.5	356	0.13	0.05	0.26	0.555	0.09	0.1
V470389 V470390 V470391 V470392 V470393																
V470394 V470395 V470396 V470397 V470398																
V470399 V470400 V470401 V470402 V470403		3.4	230	0.003	0.22	0.48	44.9	1	0.3	452	0.08	0.12	0.43	0.335	1.11	0.8
V470404																

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CERTIFICATE OF ANALYSIS VO20031331

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V470374						
V470375						
V470376						
V470377						
V470378						
V470379						
V470380						
V470381						
V470382						
V470383						
V470384						
V470385		281	2.9	15.9	85	30.1
V470386						
V470387						
V470388						
V470389						
V470390						
V470391						
V470392						
V470393						
V470394						
V470395						
V470396						
V470397						
V470398						
V470399						
V470400						
V470401		196	2.7	12.0	134	22.5
V470402						
V470403						
V470404						

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SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 22-FEB-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031331

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

CRU-31	CRU-QC	LOG-21	LOG-21d
LOG-23	PUL-31	PUL-31d	PUL-QC
SPL-21	SPL-21d	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	ME-MS61

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Finalized Date: 22-FEB-2020
Account: VISAU

CERTIFICATE VO20031355

Project: DOUAY

P.O. No.: Shipment MGM2002

This report is for 150 Drill Core samples submitted to our lab in Val d'Or, QC, Canada on 7-FEB-2020.

The following have access to data associated with this certificate:

WEBTRIEVE (AURVISTA) ACCESS EVEN STAVRE	VIVIAN PARK	FRED SPEIDEL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SPL-21d	Split sample - duplicate
LOG-21d	Sample logging - ClientBarCode Dup
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
PUL-31d	Pulverize Split - duplicate
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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CERTIFICATE OF ANALYSIS VO20031355

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V470405		2.43	0.003													
V470406		2.18	0.029													
V470407		2.27	0.051													
V470408		0.07	0.512													
V470409		1.07	0.021													
V470410		1.22	0.073													
V470411		1.74	0.028													
V470412		1.95	0.007													
V470413		1.86	0.002													
V470414		2.21	0.003													
V470415		2.16	0.005													
V470416		2.10	0.023													
V470417		2.17	0.069	0.35	6.98	2.2	150	0.57	0.18	5.70	0.13	7.21	46.4	144	22.2	107.0
V470418		2.15	0.045													
V470419		2.10	0.033													
V470420		2.16	0.083													
V470421		2.32	0.033													
V470422		2.18	0.006													
V470423		2.04	0.008													
V470424		0.91	0.027													
V470425		0.90	0.012													
V470426		2.14	0.195													
V470427		2.48	0.004													
V470428		2.18	0.112													
V470429		1.56	0.248													
V470430		2.12	0.360													
V470431		2.19	0.261													
V470432		2.22	0.280	2.00	6.20	15.2	380	0.39	2.87	3.19	0.11	11.40	99.8	31	0.77	517
V470433		1.25	0.289													
V470434		1.43	0.014													
V470435		2.08	0.010													
V470436		2.04	0.006													
V470437		2.14	0.019													
V470438		2.20	0.006													
V470439		2.34	0.008													
V470440		0.89	<0.001													
V470441		2.01	0.001													
V470442		2.19	0.090													
V470443		2.75	0.217													
V470444		1.59	0.005													

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V470405																
V470406																
V470407																
V470408																
V470409																
V470410																
V470411																
V470412																
V470413																
V470414																
V470415																
V470416																
V470417		8.37	14.75	0.11	1.2	0.070	2.76	3.0	106.0	5.16	1100	0.48	2.67	1.7	102.0	210
V470418																
V470419																
V470420																
V470421																
V470422																
V470423																
V470424																
V470425																
V470426																
V470427																
V470428																
V470429																
V470430																
V470431																
V470432		7.87	17.75	0.14	5.0	0.168	4.06	4.4	7.1	0.54	631	7.95	3.03	4.5	71.7	920
V470433																
V470434																
V470435																
V470436																
V470437																
V470438																
V470439																
V470440																
V470441																
V470442																
V470443																
V470444																

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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031355

Sample Description	Method Analyte Units LOD	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
V470405																
V470406																
V470407																
V470408																
V470409																
V470410																
V470411																
V470412																
V470413																
V470414																
V470415																
V470416																
V470417		2.2	167.0	<0.002	1.06	0.80	34.4	1	1.2	238	0.12	0.24	0.18	0.453	1.11	0.1
V470418																
V470419																
V470420																
V470421																
V470422																
V470423																
V470424																
V470425																
V470426																
V470427																
V470428																
V470429																
V470430																
V470431																
V470432		6.1	45.0	0.009	7.72	1.05	12.6	7	0.9	225	0.30	1.78	1.91	0.178	0.27	1.0
V470433																
V470434																
V470435																
V470436																
V470437																
V470438																
V470439																
V470440																
V470441																
V470442																
V470443																
V470444																

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 22-FEB-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031355

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V470405						
V470406						
V470407						
V470408						
V470409						
V470410						
V470411						
V470412						
V470413						
V470414						
V470415						
V470416						
V470417		250	3.4	6.3	140	37.3
V470418						
V470419						
V470420						
V470421						
V470422						
V470423						
V470424						
V470425						
V470426						
V470427						
V470428						
V470429						
V470430						
V470431						
V470432		53	11.7	10.3	32	191.0
V470433						
V470434						
V470435						
V470436						
V470437						
V470438						
V470439						
V470440						
V470441						
V470442						
V470443						
V470444						

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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031355

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
V470445		2.20	0.035													
V470446		2.27	0.004													
V470447		2.00	0.037	0.26	6.58	1.9	260	0.45	0.17	5.47	0.06	8.26	48.5	118	12.45	38.3
V470448		2.26	1.295													
V470449		2.38	0.243													
V470450		2.09	0.022													
V470451		2.20	0.035													
V470452		2.51	0.837													
V470453		2.06	0.098													
V470454		2.09	0.013													
V470455		1.77	0.002													
V470456		0.07	3.04													
V470457		2.18	0.007													
V470458		2.07	0.007													
V470459		2.35	0.024													
V470460		2.24	0.003													
V470461		2.18	0.001													
V470462		2.30	0.003	0.10	6.50	1.9	70	0.21	0.18	6.95	0.10	4.50	52.0	126	4.29	59.1
V470463		2.23	0.002													
V470464		2.16	0.002													
V470465		2.08	0.001													
V470466		2.24	<0.001													
V470467		2.18	<0.001													
V470468		2.24	<0.001													
V470469		2.22	<0.001													
V470470		1.98	0.002													
V470471		2.13	0.004													
V470472		2.24	0.018													
V470473		<0.02	0.018													
V470474		2.26	0.024													
V470475		2.21	0.002													
V470476		2.26	0.005													
V470477		1.80	0.001	0.14	6.76	2.6	80	0.24	0.35	7.45	0.09	5.81	60.2	131	5.34	114.0
V470478		2.36	0.001													
V470479		2.26	0.007													
V470480		2.02	0.005													
V470481		2.36	0.008													
V470482		2.21	<0.001													
V470483		2.12	2.69													
V470484		2.14	2.13													

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Finalized Date: 22-FEB-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031355

Sample Description	Method Analyte Units LOD	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10
V470445 V470446 V470447 V470448 V470449		7.57	13.35	0.11	0.7	0.042	1.44	4.1	73.2	5.09	1200	11.20	2.34	1.2	215	170
V470450 V470451 V470452 V470453 V470454																
V470455 V470456 V470457 V470458 V470459																
V470460 V470461 V470462 V470463 V470464		7.89	12.60	0.09	0.7	0.044	0.54	1.6	66.0	5.40	1410	2.07	2.21	0.9	206	140
V470465 V470466 V470467 V470468 V470469																
V470470 V470471 V470472 V470473 V470474																
V470475 V470476 V470477 V470478 V470479		8.38	13.10	0.07	0.7	0.051	0.64	2.3	75.5	4.94	1380	17.35	2.41	1.1	233	200
V470480 V470481 V470482 V470483 V470484																

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CERTIFICATE OF ANALYSIS VO20031355

Sample Description	Method Analyte Units LOD	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
V470445 V470446 V470447 V470448 V470449		2.0	77.8	0.011	0.57	0.42	26.5	1	0.3	190.5	0.08	0.18	0.14	0.307	0.57	0.1
V470450 V470451 V470452 V470453 V470454																
V470455 V470456 V470457 V470458 V470459																
V470460 V470461 V470462 V470463 V470464		1.4	27.6	0.002	0.48	0.46	28.0	1	0.6	161.5	0.08	0.05	0.11	0.302	0.18	<0.1
V470465 V470466 V470467 V470468 V470469																
V470470 V470471 V470472 V470473 V470474																
V470475 V470476 V470477 V470478 V470479		2.4	33.5	0.032	0.97	0.38	29.1	1	0.4	174.0	0.08	0.05	0.13	0.315	0.23	<0.1
V470480 V470481 V470482 V470483 V470484																

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Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V470445 V470446 V470447 V470448 V470449		194	1.5	12.1	106	24.4
V470450 V470451 V470452 V470453 V470454						
V470455 V470456 V470457 V470458 V470459						
V470460 V470461 V470462 V470463 V470464		182	20.2	14.7	90	16.1
V470465 V470466 V470467 V470468 V470469						
V470470 V470471 V470472 V470473 V470474						
V470475 V470476 V470477 V470478 V470479		187	1.5	13.2	103	29.8
V470480 V470481 V470482 V470483 V470484						

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CERTIFICATE OF ANALYSIS VO20031355

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
V470485		2.16	0.253													
V470486		1.71	1.050													
V470487		1.08	1.730													
V470488		0.75	0.001													
V470489		1.15	0.512													
V470490		1.30	1.180													
V470491		1.56	0.168													
V470492		2.19	0.203	0.13	6.68	3.2	240	1.33	0.26	6.58	0.09	5.63	54.9	122	26.0	106.0
V470493		2.17	0.204													
V470494		2.12	0.267													
V470495		2.20	0.003													
V470496		2.19	<0.001													
V470497		1.98	0.014													
V470498		2.31	0.002													
V470499		2.19	0.001													
V470500		2.27	0.001													
V473601		2.09	0.002													
V473602		2.39	0.001													
V473603		2.07	0.002													
V473604		2.42	0.002													
V473605		2.03	0.006													
V473606		2.61	0.002													
V473607		2.29	0.012													
V473608		0.07	0.145													
V473609		2.22	0.002													
V473610		2.11	0.007													
V473611		2.24	0.001													
V473612		2.34	0.001													
V473613		2.09	0.005													
V473614		2.04	0.054													
V473615		2.10	0.001													
V473616		2.23	0.001													
V473617		2.22	<0.001													
V473618		2.47	<0.001													
V473619		1.93	0.003													
V473620		2.27	0.002													
V473621		2.19	<0.001													
V473622		2.19	0.001													
V473623		2.17	0.001													
V473624		1.25	<0.001													

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North Vancouver BC V7H 0A7
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To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 22-FEB-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031355

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V470485																
V470486																
V470487																
V470488																
V470489																
V470490																
V470491																
V470492		8.04	14.45	0.10	0.8	0.049	2.87	2.1	86.2	5.12	1320	1.99	2.28	1.5	212	170
V470493																
V470494																
V470495																
V470496																
V470497																
V470498																
V470499																
V470500																
V473601																
V473602																
V473603																
V473604																
V473605																
V473606																
V473607																
V473608																
V473609																
V473610																
V473611																
V473612																
V473613																
V473614																
V473615																
V473616																
V473617																
V473618																
V473619																
V473620																
V473621																
V473622																
V473623																
V473624																

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CERTIFICATE OF ANALYSIS VO20031355

Sample Description	Method Analyte Units LOD	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
V470485																
V470486																
V470487																
V470488																
V470489																
V470490																
V470491																
V470492		1.6	181.0	0.003	1.01	0.36	29.2	1	0.3	183.0	0.10	0.21	0.15	0.390	1.27	0.1
V470493																
V470494																
V470495																
V470496																
V470497																
V470498																
V470499																
V470500																
V473601																
V473602																
V473603																
V473604																
V473605																
V473606																
V473607																
V473608																
V473609																
V473610																
V473611																
V473612																
V473613																
V473614																
V473615																
V473616																
V473617																
V473618																
V473619																
V473620																
V473621																
V473622																
V473623																
V473624																

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CERTIFICATE OF ANALYSIS VO20031355

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V470485						
V470486						
V470487						
V470488						
V470489						
V470490						
V470491						
V470492		207	7.4	12.0	110	27.0
V470493						
V470494						
V470495						
V470496						
V470497						
V470498						
V470499						
V470500						
V473601						
V473602						
V473603						
V473604						
V473605						
V473606						
V473607						
V473608						
V473609						
V473610						
V473611						
V473612						
V473613						
V473614						
V473615						
V473616						
V473617						
V473618						
V473619						
V473620						
V473621						
V473622						
V473623						
V473624						

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CERTIFICATE OF ANALYSIS VO20031355

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V473625		1.06	0.002													
V473626		1.98	0.002	0.11	5.51	1.3	40	0.12	0.03	3.83	0.14	4.06	94.2	120	12.95	183.5
V473627		2.24	<0.001													
V473628		2.12	0.002													
V473629		2.06	0.001													
V473630		2.71	0.003													
V473631		2.53	0.001													
V473632		2.08	<0.001													
V473633		2.34	0.001													
V473634		2.44	0.001													
V473635		2.34	<0.001													
V473636		2.40	0.002													
V473637		2.31	0.002													
V473638		2.41	0.001													
V473639		2.32	0.002													
V473640		0.71	<0.001													
V473641		2.44	0.001	1.01	4.55	3.1	1790	1.49	0.11	4.22	1.17	111.5	24.8	93	18.60	395
V473642		2.36	0.002													
V473643		2.26	0.001													
V473644		2.35	0.023													
V473645		2.30	0.024													
V473646		2.32	0.003													
V473647		2.24	<0.001													
V473648		2.30	0.001													
V473649		2.35	0.002													
V473650		2.26	0.002													
V473651		2.16	0.002													
V473652		2.18	0.002													
V473653		2.27	0.001													
V473654		1.73	0.004													

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V473625 V473626 V473627 V473628 V473629		9.09	9.94	0.09	0.5	0.041	0.87	1.6	85.4	11.00	1380	0.21	0.03	0.8	633	150
V473630 V473631 V473632 V473633 V473634																
V473635 V473636 V473637 V473638 V473639																
V473640 V473641 V473642 V473643 V473644		10.80	11.85	0.20	1.2	0.156	2.77	55.6	600	3.79	1380	0.11	2.10	7.5	151.5	790
V473645 V473646 V473647 V473648 V473649																
V473650 V473651 V473652 V473653 V473654																

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 22-FEB-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031355

Sample Description	Method Analyte Units LOD	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
V473625 V473626 V473627 V473628 V473629		1.4	62.2	<0.002	0.08	0.28	20.4	1	0.3	122.5	0.05	<0.05	0.08	0.217	0.39	<0.1
V473630 V473631 V473632 V473633 V473634																
V473635 V473636 V473637 V473638 V473639																
V473640 V473641 V473642 V473643 V473644		9.9	272	<0.002	0.52	0.42	39.6	1	1.2	988	<0.05	<0.05	1.99	0.226	0.92	13.5
V473645 V473646 V473647 V473648 V473649																
V473650 V473651 V473652 V473653 V473654																

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CERTIFICATE OF ANALYSIS VO20031355

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V473625 V473626 V473627 V473628 V473629		127	0.9	4.5	102	18.0
V473630 V473631 V473632 V473633 V473634						
V473635 V473636 V473637 V473638 V473639						
V473640 V473641 V473642 V473643 V473644		381	3.3	6.4	262	39.2
V473645 V473646 V473647 V473648 V473649						
V473650 V473651 V473652 V473653 V473654						

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CERTIFICATE OF ANALYSIS VO20031355

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

Applies to Method:				
CRU-31	CRU-QC	LOG-21	LOG-21d	
LOG-23	PUL-31	PUL-31d	PUL-QC	
SPL-21	SPL-21d	WEI-21		

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
Au-ICP21	ME-MS61	

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TORONTO ON M5H 3W4

Finalized Date: 24-FEB-2020
Account: VISAU

CERTIFICATE VO20031383

Project: DOUAY

P.O. No.: Shipment MGM2002

This report is for 121 Drill Core samples submitted to our lab in Val d'Or, QC, Canada on 7-FEB-2020.

The following have access to data associated with this certificate:

WEBTRIEVE (AURVISTA) ACCESS EVEN STAVRE	VIVIAN PARK	FRED SPEIDEL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SPL-21d	Split sample - duplicate
LOG-21d	Sample logging - ClientBarCode Dup
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
PUL-31d	Pulverize Split - duplicate
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-OG62	Ore Grade Elements - Four Acid	ICP-AES
Cu-OG62	Ore Grade Cu - Four Acid	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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CERTIFICATE OF ANALYSIS VO20031383

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	Au-GRA21 Au ppm 0.05	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
V473655		1.86	0.024		22.0	3.66	6.2	460	1.36	0.67	4.52	40.5	234	80.9	81	11.50
V473656		0.07	0.508													
V473657		0.99	0.004													
V473658		2.29	0.005													
V473659		1.82	0.002													
V473660		2.73	0.003													
V473661		2.39	0.001													
V473662		2.46	0.001													
V473663		2.10	<0.001													
V473664		2.62	0.002													
V473665		2.88	<0.001													
V473666		1.40	<0.001													
V473667		1.82	<0.001													
V473668		2.12	<0.001													
V473669		2.03	0.001													
V473670		2.50	0.002													
V473671		2.15	0.010													
V473672		2.09	1.970		0.70	6.56	3.3	820	1.10	0.51	6.59	0.28	28.5	40.6	143	14.55
V473673		<0.02	1.855													
V473674		1.79	4.53													
V473675		2.18	0.182													
V473676		2.29	0.034													
V473677		2.31	0.002													
V473678		2.22	0.001													
V473679		2.20	<0.001													
V473680		2.26	<0.001													
V473681		2.20	<0.001													
V473682		2.07	0.001													
V473683		2.37	0.009													
V473684		2.12	0.016													
V473685		2.29	0.001													
V473686		2.34	0.002													
V473687		2.37	0.003		0.09	7.43	3.8	210	0.57	0.27	8.13	0.08	31.2	24.5	45	1.40
V473688		0.76	0.002													
V473689		2.39	1.615													
V473690		1.99	0.015													
V473691		2.33	0.501													
V473692		2.14	0.057													
V473693		2.30	0.003													
V473694		1.98	0.001													

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Finalized Date: 24-FEB-2020
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CERTIFICATE OF ANALYSIS VO20031383

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
V473655 V473656 V473657 V473658 V473659		>10000	13.00	11.05	0.32	1.3	0.288	2.05	117.5	520	2.83	1340	0.18	1.84	5.8	216
V473660 V473661 V473662 V473663 V473664																
V473665 V473666 V473667 V473668 V473669																
V473670 V473671 V473672 V473673 V473674		67.7	6.88	13.70	0.13	1.5	0.050	2.82	13.7	218	4.52	1220	15.15	3.40	2.8	119.0
V473675 V473676 V473677 V473678 V473679																
V473680 V473681 V473682 V473683 V473684																
V473685 V473686 V473687 V473688 V473689		58.5	8.55	17.10	0.12	2.4	0.062	0.58	16.1	25.1	1.92	1760	4.83	3.81	5.3	36.9
V473690 V473691 V473692 V473693 V473694																

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CERTIFICATE OF ANALYSIS VO20031383

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
V473655 V473656 V473657 V473658 V473659		2540	22.6	204	0.002	3.38	1.30	43.8	4	1.5	1880	<0.05	0.10	3.57	0.173	0.61
V473660 V473661 V473662 V473663 V473664																
V473665 V473666 V473667 V473668 V473669																
V473670 V473671 V473672 V473673 V473674		280	4.8	190.0	0.011	1.45	1.06	28.8	1	0.4	739	0.15	0.28	0.62	0.370	0.81
V473675 V473676 V473677 V473678 V473679																
V473680 V473681 V473682 V473683 V473684																
V473685 V473686 V473687 V473688 V473689		880	7.1	21.8	0.003	1.96	1.47	20.2	1	0.9	993	0.31	0.05	0.82	0.571	0.10
V473690 V473691 V473692 V473693 V473694																

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CERTIFICATE OF ANALYSIS VO20031383

Sample Description	Method Analyte Units LOD	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Cu-OG62 Cu % 0.001
V473655 V473656 V473657 V473658 V473659		20.9	382	41.8	16.0	1240	44.2	1.345
V473660 V473661 V473662 V473663 V473664								
V473665 V473666 V473667 V473668 V473669								
V473670 V473671 V473672 V473673 V473674		0.6	160	35.3	9.4	138	55.2	
V473675 V473676 V473677 V473678 V473679								
V473680 V473681 V473682 V473683 V473684								
V473685 V473686 V473687 V473688 V473689		0.3	134	23.3	25.0	113	94.0	
V473690 V473691 V473692 V473693 V473694								

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CERTIFICATE OF ANALYSIS VO20031383

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	Au-GRA21 Au ppm 0.05	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
V473695		2.34	<0.001													
V473696		1.81	<0.001													
V473697		2.58	<0.001													
V473698		2.46	<0.001													
V473699		2.04	<0.001													
V473700		2.18	<0.001													
V473701		2.40	<0.001													
V473702		2.10	0.003		0.14	7.26	6.5	1590	3.69	0.32	7.23	0.30	351	8.4	11	3.34
V473703		2.17	<0.001													
V473704		0.07	3.05													
V473705		2.29	0.002													
V473706		2.77	<0.001													
V473707		1.74	<0.001													
V473708		2.29	<0.001													
V473709		2.21	0.008													
V473710		2.25	0.001													
V473711		2.19	0.114													
V473712		2.22	1.215													
V473713		1.67	>10.0	16.55												
V473714		2.36	6.30													
V473715		1.50	0.413													
V473716		1.07	0.024													
V473717		2.24	0.008		0.07	6.78	2.8	270	0.62	0.18	5.93	0.07	15.40	39.2	93	3.64
V473718		2.07	0.002													
V473719		2.50	0.003													
V473720		1.02	0.003													
V473721		0.95	0.001													
V473722		1.08	0.006													
V473723		1.73	0.018													
V473724		1.31	0.002													
V473725		1.99	<0.001													
V473726		2.39	<0.001													
V473727		2.25	<0.001													
V473728		2.32	0.001													
V473729		2.11	<0.001													
V473730		2.19	<0.001													
V473731		2.24	0.001													
V473732		2.28	0.001		0.13	7.36	5.9	360	1.54	0.35	6.34	0.10	41.8	39.1	110	8.50
V473733		2.15	<0.001													
V473734		2.08	<0.001													

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CERTIFICATE OF ANALYSIS VO20031383

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
V473695 V473696 V473697 V473698 V473699																
V473700 V473701 V473702 V473703 V473704		32.0	2.97	21.5	0.44	5.4	0.021	2.27	146.0	60.0	0.74	1040	0.11	4.44	21.3	6.7
V473705 V473706 V473707 V473708 V473709																
V473710 V473711 V473712 V473713 V473714																
V473715 V473716 V473717 V473718 V473719		85.7	7.91	18.10	0.06	2.0	0.071	0.77	6.4	74.8	2.70	1280	1.39	3.46	3.8	48.1
V473720 V473721 V473722 V473723 V473724																
V473725 V473726 V473727 V473728 V473729																
V473730 V473731 V473732 V473733 V473734		96.5	8.33	19.55	0.08	2.0	0.076	1.53	16.5	93.1	3.15	1620	0.84	3.12	4.7	57.9

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
V473695 V473696 V473697 V473698 V473699																
V473700 V473701 V473702 V473703 V473704		2290	13.7	71.8	<0.002	0.15	0.41	2.4	1	0.9	1195	0.61	<0.05	16.55	0.275	0.36
V473705 V473706 V473707 V473708 V473709																
V473710 V473711 V473712 V473713 V473714																
V473715 V473716 V473717 V473718 V473719		520	2.2	37.3	<0.002	1.27	0.65	43.5	1	0.4	508	0.22	<0.05	0.42	0.812	0.19
V473720 V473721 V473722 V473723 V473724																
V473725 V473726 V473727 V473728 V473729																
V473730 V473731 V473732 V473733 V473734		540	5.1	111.5	0.004	1.08	0.73	36.9	1	0.8	859	0.24	<0.05	0.70	0.782	0.71

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Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031383

Sample Description	Method Analyte Units LOD	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Cu-OG62 Cu % 0.001
V473695								
V473696								
V473697								
V473698								
V473699								
V473700								
V473701								
V473702		7.0	101	1.0	41.9	85	278	
V473703								
V473704								
V473705								
V473706								
V473707								
V473708								
V473709								
V473710								
V473711								
V473712								
V473713								
V473714								
V473715								
V473716								
V473717		0.2	336	5.7	28.3	84	66.7	
V473718								
V473719								
V473720								
V473721								
V473722								
V473723								
V473724								
V473725								
V473726								
V473727								
V473728								
V473729								
V473730								
V473731								
V473732		0.9	298	2.2	28.6	162	72.2	
V473733								
V473734								

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 24-FEB-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031383

Sample Description	Method	WEI-21	Au-ICP21	Au-GRA21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
V473735		2.05	0.001													
V473736		0.81	<0.001													
V473737		2.04	<0.001													
V473738		2.04	0.003													
V473739		2.31	0.002													
V473740		2.34	0.128													
V473741		2.32	0.002													
V473742		2.11	0.001													
V473743		2.13	0.086													
V473744		2.25	0.002													
V473745		2.38	0.002													
V473746		2.29	0.009													
V473747		2.35	0.002													
V473748		2.26	0.001		0.11	7.19	6.3	420	0.57	0.30	6.98	0.13	16.15	41.6	100	1.08
V473749		2.28	0.022													
V473750		2.29	0.013													
V473751		2.30	<0.001													
V473752		0.07	0.143													
V473753		2.27	0.001													
V473754		2.18	<0.001													
V473755		2.34	<0.001													
V473756		2.38	<0.001													
V473757		2.24	<0.001													
V473758		2.37	<0.001													
V473759		2.34	<0.001													
V473760		2.19	<0.001													
V473761		2.15	0.001													
V473762		2.41	0.010													
V473763		1.90	0.002		0.16	6.97	4.6	370	1.07	0.23	5.78	0.15	55.0	41.5	133	10.10
V473764		2.22	0.004													
V473765		2.05	0.003													
V473766		2.17	0.001													
V473767		2.19	<0.001													
V473768		2.18	<0.001													
V473769		<0.02	0.001													
V473770		2.07	<0.001													
V473771		2.14	0.001													
V473772		2.08	0.002													
V473773		2.00	0.005													
V473774		2.10	0.001													

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To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 24-FEB-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031383

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
V473735 V473736 V473737 V473738 V473739																
V473740 V473741 V473742 V473743 V473744																
V473745 V473746 V473747 V473748 V473749		62.4	8.62	18.50	0.06	1.8	0.061	0.93	7.3	44.9	3.43	1460	2.50	2.47	3.1	72.9
V473750 V473751 V473752 V473753 V473754																
V473755 V473756 V473757 V473758 V473759																
V473760 V473761 V473762 V473763 V473764		122.5	8.00	18.35	0.09	2.2	0.089	1.90	28.5	104.5	3.13	1430	1.29	3.10	3.7	64.2
V473765 V473766 V473767 V473768 V473769																
V473770 V473771 V473772 V473773 V473774																

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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031383

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
V473735																
V473736																
V473737																
V473738																
V473739																
V473740																
V473741																
V473742																
V473743																
V473744																
V473745																
V473746																
V473747																
V473748		450	4.1	29.1	0.003	0.99	0.83	37.6	1	0.8	761	0.21	0.05	0.34	0.697	0.15
V473749																
V473750																
V473751																
V473752																
V473753																
V473754																
V473755																
V473756																
V473757																
V473758																
V473759																
V473760																
V473761																
V473762																
V473763		460	5.2	134.0	0.002	1.81	0.56	44.5	1	0.7	569	0.21	0.07	0.69	0.763	0.79
V473764																
V473765																
V473766																
V473767																
V473768																
V473769																
V473770																
V473771																
V473772																
V473773																
V473774																

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CERTIFICATE OF ANALYSIS VO20031383

Sample Description	Method / Analyte / Units / LOD	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	Cu-OG62 Cu % 0.001
V473735								
V473736								
V473737								
V473738								
V473739								
V473740								
V473741								
V473742								
V473743								
V473744								
V473745								
V473746								
V473747								
V473748		0.1	313	3.5	26.0	91	53.5	
V473749								
V473750								
V473751								
V473752								
V473753								
V473754								
V473755								
V473756								
V473757								
V473758								
V473759								
V473760								
V473761								
V473762								
V473763		1.4	317	4.0	27.4	110	72.8	
V473764								
V473765								
V473766								
V473767								
V473768								
V473769								
V473770								
V473771								
V473772								
V473773								
V473774								

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SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 24-FEB-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031383

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	Au-GRA21 Au ppm 0.05	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
V473775		2.06	<0.001													

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North Vancouver BC V7H 0A7
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SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 24-FEB-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031383

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
V473775																

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Finalized Date: 24-FEB-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031383

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
V473775																

***** See Appendix Page for comments regarding this certificate *****

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1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 24-FEB-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031383

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	Cu-OG62
	Analyte	U	V	W	Y	Zn	Zr	Cu
	Units	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.1	1	0.1	0.1	2	0.5	0.001
V473775								

***** See Appendix Page for comments regarding this certificate *****

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To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 24-FEB-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20031383

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REE's may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:				
	Au-GRA21	Au-ICP21	Cu-OG62	ME-MS61
	ME-OG62			

ALS Canada Ltd.

2103 Dollarton Hwy
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To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 29-FEB-2020
Account: VISAU

CERTIFICATE VO20040476

Project: DOUAY

P.O. No.: Shipment MGM2002

This report is for 1 Drill Core sample submitted to our lab in Val d'Or, QC, Canada on 20-FEB-2020.

The following have access to data associated with this certificate:

WEBTRIEVE (AURVISTA) ACCESS EVEN STAVRE	VIVIAN PARK	FRED SPEIDEL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-03	Find Reject for Addn Analysis
SPL-21d	Split sample - duplicate
PUL-31d	Pulverize Split - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Comments: Original workorder VO20031383.

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 29-FEB-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20040476

Sample Description	Method Analyte Units LOD	Au-GRA21 Au ppm 0.05
V473713		20.6

Comments: Original workorder VO20031383.

***** See Appendix Page for comments regarding this certificate *****

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North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 29-FEB-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20040476

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method:

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-GRA21

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 19-APR-2020
Account: VISAU

CERTIFICATE VO20059808

Project: DOUAY

P.O. No.: Shipment MGM2003

This report is for 96 Drill Core samples submitted to our lab in Val d'Or, QC, Canada on 12-MAR-2020.

The following have access to data associated with this certificate:

WEBTRIEVE (AURVISTA) ACCESS EVEN STAVRE	VIVIAN PARK	FRED SPEIDEL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SPL-21d	Split sample - duplicate
LOG-21d	Sample logging - ClientBarCode Dup
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
PUL-31d	Pulverize Split - duplicate
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
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To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 19-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20059808

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
A0101801		3.11	0.036													
A0101802		2.68	0.014													
A0101803		2.54	0.003													
A0101804		1.39	0.005													
A0101805		1.48	0.010													
A0101806		1.64	0.003													
A0101807		2.42	0.010													
A0101808		0.07	3.03													
A0101809		2.48	0.010													
A0101810		2.56	0.012													
A0101811		2.39	0.013													
A0101812		2.52	0.003													
A0101813		2.29	0.002													
A0101814		2.41	0.005													
A0101815		2.60	0.007													
A0101816		2.62	0.002													
A0101817		2.99	0.002													
A0101818		2.80	0.007													
A0101819		2.72	0.001													
A0101820		2.52	0.002	0.05	7.22	4.1	170	0.77	0.13	11.85	0.10	86.9	35.8	60	1.56	21.3
A0101821		2.64	0.001													
A0101822		2.88	<0.001													
A0101823		2.75	0.001													
A0101824		1.20	0.002													
A0101825		1.05	0.002													
A0101826		2.42	0.006													
A0101827		2.63	0.005													
A0101828		1.91	0.016													
A0101829		2.07	0.004													
A0101830		1.80	0.002													
A0101831		2.20	0.002													
A0101832		2.78	0.003													
A0101833		2.25	0.005													
A0101834		2.56	0.004													
A0101835		2.31	0.001													
A0101836		2.10	0.005													
A0101837		2.31	0.014													
A0101838		2.76	0.008													
A0101839		2.40	0.006													
A0101840		0.69	0.004													

***** See Appendix Page for comments regarding this certificate *****

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CERTIFICATE OF ANALYSIS VO20059808

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
A0101801																
A0101802																
A0101803																
A0101804																
A0101805																
A0101806																
A0101807																
A0101808																
A0101809																
A0101810																
A0101811																
A0101812																
A0101813																
A0101814																
A0101815																
A0101816																
A0101817																
A0101818																
A0101819																
A0101820		7.38	16.60	0.15	1.7	0.063	0.59	50.3	41.1	1.97	2070	1.87	2.81	4.0	37.8	390
A0101821																
A0101822																
A0101823																
A0101824																
A0101825																
A0101826																
A0101827																
A0101828																
A0101829																
A0101830																
A0101831																
A0101832																
A0101833																
A0101834																
A0101835																
A0101836																
A0101837																
A0101838																
A0101839																
A0101840																

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 19-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20059808

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
A0101801																
A0101802																
A0101803																
A0101804																
A0101805																
A0101806																
A0101807																
A0101808																
A0101809																
A0101810																
A0101811																
A0101812																
A0101813																
A0101814																
A0101815																
A0101816																
A0101817																
A0101818																
A0101819																
A0101820		6.6	33.6	0.002	0.33	0.32	47.7	1	0.5	768	0.16	<0.05	1.70	0.535	0.19	0.7
A0101821																
A0101822																
A0101823																
A0101824																
A0101825																
A0101826																
A0101827																
A0101828																
A0101829																
A0101830																
A0101831																
A0101832																
A0101833																
A0101834																
A0101835																
A0101836																
A0101837																
A0101838																
A0101839																
A0101840																

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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20059808

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
A0101801						
A0101802						
A0101803						
A0101804						
A0101805						
A0101806						
A0101807						
A0101808						
A0101809						
A0101810						
A0101811						
A0101812						
A0101813						
A0101814						
A0101815						
A0101816						
A0101817						
A0101818						
A0101819						
A0101820		276	1.3	23.7	89	59.8
A0101821						
A0101822						
A0101823						
A0101824						
A0101825						
A0101826						
A0101827						
A0101828						
A0101829						
A0101830						
A0101831						
A0101832						
A0101833						
A0101834						
A0101835						
A0101836						
A0101837						
A0101838						
A0101839						
A0101840						

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Finalized Date: 19-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20059808

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
A0101841		2.19	0.010	0.06	6.53	4.2	100	1.01	0.12	9.15	0.04	50.2	37.8	63	0.64	55.6
A0101842		2.47	0.005													
A0101843		2.49	0.004													
A0101844		2.68	0.006													
A0101845		2.56	0.008													
A0101846		2.58	0.005													
A0101847		2.57	0.003													
A0101848		2.54	0.044													
A0101849		2.40	0.037													
A0101850		2.84	0.008													
A0101851		2.36	0.020													
A0101852		2.56	0.013													
A0101853		2.98	0.017													
A0101854		2.58	0.020													
A0101855		2.36	0.037													
A0101856		0.07	0.140													
A0101857		2.38	0.023													
A0101858		2.49	0.016													
A0101859		2.16	0.004													
A0101860		2.41	0.018	0.05	7.19	2.2	170	1.05	0.11	9.38	0.08	45.8	44.6	62	2.01	67.2
A0101861		2.46	0.004													
A0101862		2.61	0.019													
A0101863		2.50	0.017													
A0101864		2.35	0.007													
A0101865		2.37	0.007													
A0101866		2.78	0.044													
A0101867		1.86	0.013													
A0101868		1.76	0.003													
A0101869		2.39	0.003													
A0101870		1.49	0.002													
A0101871		1.79	0.004													
A0101872		2.45	0.006													
A0101873		<0.02	0.006													
A0101874		2.39	0.012													
A0101875		2.47	0.028													
A0101876		2.17	0.001													
A0101877		2.53	0.011													
A0101878		2.51	0.005													
A0101879		2.57	0.004													
A0101880		2.54	0.002	0.11	4.48	2.4	210	2.76	0.13	14.95	0.18	99.8	29.8	38	4.63	251

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1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 19-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20059808

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
A0101841		8.60	14.80	0.13	1.4	0.058	0.31	28.9	16.5	2.22	1980	1.85	3.47	2.8	37.9	320
A0101842																
A0101843																
A0101844																
A0101845																
A0101846																
A0101847																
A0101848																
A0101849																
A0101850																
A0101851																
A0101852																
A0101853																
A0101854																
A0101855																
A0101856																
A0101857																
A0101858																
A0101859																
A0101860		8.21	16.30	0.15	1.6	0.064	0.71	25.6	61.0	2.78	2250	2.56	2.97	3.0	51.0	360
A0101861																
A0101862																
A0101863																
A0101864																
A0101865																
A0101866																
A0101867																
A0101868																
A0101869																
A0101870																
A0101871																
A0101872																
A0101873																
A0101874																
A0101875																
A0101876																
A0101877																
A0101878																
A0101879																
A0101880		10.10	12.10	0.20	1.8	0.077	0.91	46.2	103.0	1.77	3250	1.45	2.47	16.9	33.6	690

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CERTIFICATE OF ANALYSIS VO20059808

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
A0101841 A0101842 A0101843 A0101844 A0101845		3.0	12.0	0.004	0.62	0.27	41.1	1	0.6	483	0.13	0.12	1.06	0.458	0.09	0.5
A0101846 A0101847 A0101848 A0101849 A0101850																
A0101851 A0101852 A0101853 A0101854 A0101855																
A0101856 A0101857 A0101858 A0101859 A0101860		7.3	32.1	0.002	0.48	0.33	42.3	1	0.6	1230	0.16	<0.05	1.15	0.531	0.26	0.5
A0101861 A0101862 A0101863 A0101864 A0101865																
A0101866 A0101867 A0101868 A0101869 A0101870																
A0101871 A0101872 A0101873 A0101874 A0101875																
A0101876 A0101877 A0101878 A0101879 A0101880		4.9	94.7	<0.002	0.42	0.07	31.2	1	0.5	456	0.57	<0.05	1.87	0.330	0.40	2.3

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CERTIFICATE OF ANALYSIS VO20059808

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
A0101841		236	10.3	20.7	77	49.0
A0101842						
A0101843						
A0101844						
A0101845						
A0101846						
A0101847						
A0101848						
A0101849						
A0101850						
A0101851						
A0101852						
A0101853						
A0101854						
A0101855						
A0101856						
A0101857						
A0101858						
A0101859						
A0101860		256	1.2	20.4	108	54.7
A0101861						
A0101862						
A0101863						
A0101864						
A0101865						
A0101866						
A0101867						
A0101868						
A0101869						
A0101870						
A0101871						
A0101872						
A0101873						
A0101874						
A0101875						
A0101876						
A0101877						
A0101878						
A0101879						
A0101880		214	1.4	23.3	96	72.7

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1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 19-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20059808

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
A0101881		2.54	0.005													
A0101882		2.46	0.011													
A0101883		2.54	0.018													
A0101884		2.49	0.033													
A0101885		2.74	0.039													
A0101886		2.85	0.011													
A0101887		2.66	0.015													
A0101888		0.67	0.001													
A0101889		2.53	0.006													
A0101890		2.52	0.008													
A0101891		2.75	0.009													
A0101892		2.36	0.004													
A0101893		2.40	0.010													
A0101894		2.40	0.001													
A0101895		2.84	0.002													
A0101896		2.54	0.004													

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CERTIFICATE OF ANALYSIS VO20059808

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
A0101881																
A0101882																
A0101883																
A0101884																
A0101885																
A0101886																
A0101887																
A0101888																
A0101889																
A0101890																
A0101891																
A0101892																
A0101893																
A0101894																
A0101895																
A0101896																

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CERTIFICATE OF ANALYSIS VO20059808

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
A0101881																
A0101882																
A0101883																
A0101884																
A0101885																
A0101886																
A0101887																
A0101888																
A0101889																
A0101890																
A0101891																
A0101892																
A0101893																
A0101894																
A0101895																
A0101896																

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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20059808

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5
A0101881						
A0101882						
A0101883						
A0101884						
A0101885						
A0101886						
A0101887						
A0101888						
A0101889						
A0101890						
A0101891						
A0101892						
A0101893						
A0101894						
A0101895						
A0101896						

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Finalized Date: 19-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20059808

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

CRU-31	CRU-QC	LOG-21	LOG-21d
LOG-23	PUL-31	PUL-31d	PUL-QC
SPL-21	SPL-21d	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	ME-MS61

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TORONTO ON M5H 3W4

Finalized Date: 20-APR-2020
Account: VISAU

CERTIFICATE VO20059813

Project: DOUAY

P.O. No.: Shipment MGM2003

This report is for 130 Drill Core samples submitted to our lab in Val d'Or, QC, Canada on 12-MAR-2020.

The following have access to data associated with this certificate:

WEBTRIEVE (AURVISTA) ACCESS EVEN STAVRE	VIVIAN PARK	FRED SPEIDEL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SPL-21d	Split sample - duplicate
LOG-21d	Sample logging - ClientBarCode Dup
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
PUL-31d	Pulverize Split - duplicate
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
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CERTIFICATE OF ANALYSIS VO20059813

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	Au-GRA21 Au ppm 0.05	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
V472001		2.09	0.275													
V472002		1.98	0.097													
V472003		2.22	6.45													
V472004		2.25	0.040													
V472005		2.27	0.031													
V472006		2.29	0.005													
V472007		2.18	0.001													
V472008		0.07	0.138													
V472009		2.44	0.005													
V472010		2.02	0.025													
V472011		2.17	0.037													
V472012		2.17	0.324													
V472013		0.85	0.181													
V472014		1.40	0.009													
V472015		2.10	0.015													
V472016		2.05	0.004													
V472017		2.25	0.249		0.88	7.95	181.5	850	3.00	0.10	4.15	0.16	96.4	39.6	172	7.00
V472018		2.14	0.283													
V472019		1.89	0.339													
V472020		2.09	0.744													
V472021		1.86	0.663													
V472022		2.04	0.152													
V472023		1.48	0.021													
V472024		0.62	0.168													
V472025		0.56	0.362													
V472026		1.45	0.249													
V472027		2.08	0.268													
V472028		1.81	0.339													
V472029		1.15	1.180													
V472030		1.56	0.302													
V472031		2.15	0.531													
V472032		2.32	0.908		0.22	5.16	147.5	290	0.97	0.04	9.39	0.05	49.8	21.2	71	1.72
V472033		2.11	1.115													
V472034		2.35	1.060													
V472035		2.19	0.024													
V472036		2.58	0.122													
V472037		0.78	0.277													
V472038		1.63	0.183													
V472039		2.40	0.278													
V472040		1.03	0.003													

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 20-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20059813

Sample Description	Method Analyte Units LOD	ME-MS61 Cu ppm 0.2	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2
V472001 V472002 V472003 V472004 V472005																
V472006 V472007 V472008 V472009 V472010																
V472011 V472012 V472013 V472014 V472015																
V472016 V472017 V472018 V472019 V472020		94.5	6.64	19.60	0.19	3.3	0.041	3.29	42.9	25.7	1.28	1280	2.82	2.08	9.2	130.5
V472021 V472022 V472023 V472024 V472025																
V472026 V472027 V472028 V472029 V472030																
V472031 V472032 V472033 V472034 V472035		38.0	4.12	10.80	0.13	1.9	0.029	1.07	21.5	7.3	2.30	1060	0.43	2.88	7.9	68.3
V472036 V472037 V472038 V472039 V472040																

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CERTIFICATE OF ANALYSIS VO20059813

Sample Description	Method Analyte Units LOD	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02
V472001 V472002 V472003 V472004 V472005																
V472006 V472007 V472008 V472009 V472010																
V472011 V472012 V472013 V472014 V472015																
V472016 V472017 V472018 V472019 V472020		1040	9.6	124.5	0.002	0.74	4.28	13.3	1	0.6	957	0.32	0.84	4.73	0.484	0.88
V472021 V472022 V472023 V472024 V472025																
V472026 V472027 V472028 V472029 V472030																
V472031 V472032 V472033 V472034 V472035		1130	4.4	34.7	<0.002	0.57	12.55	11.2	1	0.4	1350	0.15	0.17	2.08	0.359	0.26
V472036 V472037 V472038 V472039 V472040																

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Sample Description	Method Analyte Units LOD	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V472001							
V472002							
V472003							
V472004							
V472005							
V472006							
V472007							
V472008							
V472009							
V472010							
V472011							
V472012							
V472013							
V472014							
V472015							
V472016							
V472017		1.5	153	22.4	17.2	116	145.0
V472018							
V472019							
V472020							
V472021							
V472022							
V472023							
V472024							
V472025							
V472026							
V472027							
V472028							
V472029							
V472030							
V472031							
V472032		1.1	191	37.8	12.0	65	81.2
V472033							
V472034							
V472035							
V472036							
V472037							
V472038							
V472039							
V472040							

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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	Au-GRA21 Au ppm 0.05	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
V472041		2.41	0.047													
V472042		2.29	0.512													
V472043		2.18	0.018													
V472044		2.29	0.026													
V472045		2.24	0.007													
V472046		2.00	0.004		0.02	7.58	124.0	790	2.61	0.02	4.86	0.05	76.3	24.6	153	9.37
V472047		2.34	0.032													
V472048		2.04	0.001													
V472049		2.11	<0.001													
V472050		1.57	0.025													
V472051		1.92	0.017													
V472052		2.30	0.144													
V472053		2.28	0.090													
V472054		1.38	0.704													
V472055		1.25	8.13													
V472056		0.07	0.504													
V472057		1.23	1.725													
V472058		1.41	>10.0	13.25												
V472059		1.14	0.628													
V472060		1.46	0.613													
V472061		2.18	0.034													
V472062		2.16	0.027		0.05	7.58	247	430	2.43	0.04	3.26	0.06	42.0	36.0	181	5.38
V472063		2.27	0.001													
V472064		1.99	0.003													
V472065		2.28	0.131													
V472066		2.62	0.019													
V472067		1.84	0.079													
V472068		2.07	0.943													
V472069		2.22	2.26													
V472070		2.13	1.510													
V472071		2.21	2.10													
V472072		2.25	0.583													
V472073		<0.02	0.619													
V472074		2.06	0.675													
V472075		2.31	1.100													
V472076		2.54	0.670													
V472077		1.69	0.513		0.34	6.70	130.0	520	1.02	0.34	2.68	0.08	107.0	5.0	8	1.69
V472078		2.16	1.370													
V472079		2.20	0.475													
V472080		2.12	0.071													

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CERTIFICATE OF ANALYSIS VO20059813

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
V472041																
V472042																
V472043																
V472044																
V472045																
V472046		64.6	5.25	18.10	0.13	3.2	0.047	4.53	33.1	26.3	1.51	984	0.48	0.04	4.1	104.5
V472047																
V472048																
V472049																
V472050																
V472051																
V472052																
V472053																
V472054																
V472055																
V472056																
V472057																
V472058																
V472059																
V472060																
V472061																
V472062		61.1	7.39	19.05	0.10	2.9	0.042	3.10	18.4	12.7	1.18	1400	0.39	2.07	2.0	134.5
V472063																
V472064																
V472065																
V472066																
V472067																
V472068																
V472069																
V472070																
V472071																
V472072																
V472073																
V472074																
V472075																
V472076																
V472077		11.3	1.74	20.5	0.16	3.7	0.022	1.09	48.7	11.1	0.53	434	8.26	5.20	6.7	8.1
V472078																
V472079																
V472080																

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CERTIFICATE OF ANALYSIS VO20059813

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
V472041																
V472042																
V472043																
V472044																
V472045																
V472046		1750	4.3	142.0	<0.002	0.07	3.64	16.0	1	0.7	708	0.20	<0.05	3.27	0.473	1.07
V472047																
V472048																
V472049																
V472050																
V472051																
V472052																
V472053																
V472054																
V472055																
V472056																
V472057																
V472058																
V472059																
V472060																
V472061		730	9.0	86.7	<0.002	0.16	2.63	13.7	1	0.5	697	0.11	<0.05	2.41	0.303	0.74
V472062																
V472063																
V472064																
V472065																
V472066																
V472067																
V472068																
V472069																
V472070																
V472071																
V472072																
V472073																
V472074																
V472075																
V472076		830	16.3	25.5	<0.002	0.83	2.16	2.1	1	0.5	1265	0.18	0.14	6.23	0.102	0.28
V472077																
V472078																
V472079																
V472080																

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CERTIFICATE OF ANALYSIS VO20059813

Sample Description	Method Analyte Units LOD	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V472041							
V472042							
V472043							
V472044							
V472045							
V472046		0.7	132	13.5	12.1	93	121.0
V472047							
V472048							
V472049							
V472050							
V472051							
V472052							
V472053							
V472054							
V472055							
V472056							
V472057							
V472058							
V472059							
V472060							
V472061							
V472062		0.6	132	4.4	9.7	111	105.0
V472063							
V472064							
V472065							
V472066							
V472067							
V472068							
V472069							
V472070							
V472071							
V472072							
V472073							
V472074							
V472075							
V472076							
V472077		1.7	54	5.4	9.0	72	184.5
V472078							
V472079							
V472080							

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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	Au-GRA21 Au ppm 0.05	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05
V472081		2.56	3.09													
V472082		1.93	1.065													
V472083		2.67	0.577													
V472084		2.27	0.310													
V472085		2.45	1.640													
V472086		1.98	1.605													
V472087		1.86	0.977													
V472088		0.92	0.003													
V472089		2.16	1.490													
V472090		2.19	0.343													
V472091		2.22	0.268													
V472092		2.08	0.198		0.07	7.45	74.4	580	2.18	0.07	5.03	0.08	76.6	46.9	140	5.10
V472093		2.13	0.043													
V472094		2.05	0.004													
V472095		2.08	0.052													
V472096		2.34	0.310													
V472097		2.10	0.029													
V472098		1.98	0.114													
V472099		2.39	0.007													
V472100		1.97	0.003													
V472101		2.19	0.002													
V472102		2.12	0.002													
V472103		2.27	<0.001													
V472104		0.07	3.01													
V472105		2.11	0.003													
V472106		1.82	0.004													
V472107		2.13	0.005		0.10	7.49	95.6	1110	2.14	0.07	6.64	0.11	178.0	25.2	117	7.18
V472108		2.11	0.006													
V472109		1.99	0.004													
V472110		2.25	0.002													
V472111		1.90	0.002													
V472112		1.83	0.002													
V472113		2.33	0.009													
V472114		2.21	0.011													
V472115		2.17	1.750													
V472116		2.01	0.024													
V472117		1.93	0.006													
V472118		1.83	0.003													
V472119		1.99	0.006													
V472120		1.16	0.004													

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CERTIFICATE OF ANALYSIS VO20059813

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
V472081																
V472082																
V472083																
V472084																
V472085																
V472086																
V472087																
V472088																
V472089																
V472090																
V472091																
V472092		69.5	8.26	19.35	0.11	3.2	0.039	2.11	34.9	37.9	1.44	1600	2.12	3.62	2.8	153.5
V472093																
V472094																
V472095																
V472096																
V472097																
V472098																
V472099																
V472100																
V472101																
V472102																
V472103																
V472104																
V472105																
V472106																
V472107		72.9	5.54	19.05	0.22	3.3	0.034	2.97	100.0	38.1	1.72	977	2.82	2.19	11.2	95.5
V472108																
V472109																
V472110																
V472111																
V472112																
V472113																
V472114																
V472115																
V472116																
V472117																
V472118																
V472119																
V472120																

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	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
V472081																
V472082																
V472083																
V472084																
V472085																
V472086																
V472087																
V472088																
V472089																
V472090																
V472091																
V472092		1700	4.3	79.1	<0.002	0.67	4.28	18.5	1	0.6	1185	0.15	<0.05	3.23	0.358	0.53
V472093																
V472094																
V472095																
V472096																
V472097																
V472098																
V472099																
V472100																
V472101																
V472102																
V472103																
V472104																
V472105																
V472106																
V472107		2610	6.2	107.0	<0.002	1.27	8.31	13.9	1	0.6	1325	0.39	<0.05	5.60	0.483	0.70
V472108																
V472109																
V472110																
V472111																
V472112																
V472113																
V472114																
V472115																
V472116																
V472117																
V472118																
V472119																
V472120																

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 20-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20059813

Sample Description	Method Analyte Units LOD	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V472081							
V472082							
V472083							
V472084							
V472085							
V472086							
V472087							
V472088							
V472089							
V472090							
V472091							
V472092		1.0	162	7.6	15.0	102	121.5
V472093							
V472094							
V472095							
V472096							
V472097							
V472098							
V472099							
V472100							
V472101							
V472102							
V472103							
V472104							
V472105							
V472106							
V472107		1.8	152	8.9	19.1	102	136.0
V472108							
V472109							
V472110							
V472111							
V472112							
V472113							
V472114							
V472115							
V472116							
V472117							
V472118							
V472119							
V472120							

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CERTIFICATE OF ANALYSIS VO20059813

Sample Description	Method	WEI-21	Au-ICP21	Au-GRA21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs
	Units	kg	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.05	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05
V472121		1.15	0.005													
V472122		2.21	0.006													
V472123		2.12	0.005													
V472124		2.30	0.004													
V472125		2.09	0.005		0.11	7.59	34.3	1700	2.36	0.45	3.41	0.24	179.5	4.2	2	3.65
V472126		2.09	0.004													
V472127		2.32	0.004													
V472128		2.21	0.004													
V472129		1.98	0.004													
V472130		2.49	0.010													

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CERTIFICATE OF ANALYSIS VO20059813

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Cu	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni
	Units	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm
	LOD	0.2	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2
V472121																
V472122																
V472123																
V472124																
V472125		13.8	2.19	24.1	0.24	5.2	0.016	2.20	72.0	23.9	0.15	686	1.48	5.17	19.2	1.6
V472126																
V472127																
V472128																
V472129																
V472130																

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CERTIFICATE OF ANALYSIS VO20059813

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm
	LOD	10	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02
V472121																
V472122																
V472123																
V472124																
V472125		250	39.6	54.2	<0.002	1.80	2.78	0.4	<1	0.5	3440	0.45	0.08	11.10	0.152	0.43
V472126																
V472127																
V472128																
V472129																
V472130																

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CERTIFICATE OF ANALYSIS VO20059813

Sample Description	Method Analyte Units LOD	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V472121							
V472122							
V472123							
V472124							
V472125		2.4	61	2.2	16.0	151	332
V472126							
V472127							
V472128							
V472129							
V472130							

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CERTIFICATE OF ANALYSIS VO20059813

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

CRU-31	CRU-QC	LOG-21	LOG-21d
LOG-23	PUL-31	PUL-31d	PUL-QC
SPL-21	SPL-21d	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-GRA21	Au-ICP21	ME-MS61

ALS Canada Ltd.

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Finalized Date: 20-APR-2020
Account: VISAU

CERTIFICATE VO20059818

Project: DOUAY

P.O. No.: Shipment MGM2003

This report is for 138 Drill Core samples submitted to our lab in Val d'Or, QC, Canada on 12-MAR-2020.

The following have access to data associated with this certificate:

WEBTRIEVE (AURVISTA) ACCESS EVEN STAVRE	VIVIAN PARK	FRED SPEIDEL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SPL-21d	Split sample - duplicate
LOG-21d	Sample logging - ClientBarCode Dup
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
PUL-31d	Pulverize Split - duplicate
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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2103 Dollarton Hwy
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CERTIFICATE OF ANALYSIS VO20059818

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V472131		2.37	0.011													
V472132		2.26	0.026													
V472133		2.62	0.034													
V472134		2.48	0.071													
V472135		2.16	0.002													
V472136		0.90	0.003													
V472137		2.52	0.002													
V472138		2.21	0.005													
V472139		2.35	0.002													
V472140		2.19	0.002													
V472141		2.22	0.002													
V472142		2.16	0.002													
V472143		2.43	0.002													
V472144		2.64	0.001													
V472145		2.06	0.003	0.01	6.40	8.1	580	1.13	0.04	3.37	0.05	36.5	14.5	57	5.85	14.9
V472146		2.52	0.002													
V472147		2.48	0.002													
V472148		2.48	0.002													
V472149		2.23	0.001													
V472150		1.96	0.001													
V472151		1.81	0.001													
V472152		0.07	0.131													
V472153		1.94	0.002													
V472154		2.18	0.002													
V472155		2.19	0.001													
V472156		2.40	0.001													
V472157		2.20	0.002													
V472158		2.24	0.002													
V472159		1.98	0.002													
V472160		2.04	0.002													
V472161		2.05	0.002													
V472162		2.08	0.004													
V472163		2.03	0.016													
V472164		2.15	0.002													
V472165		2.11	0.001													
V472166		2.05	0.002													
V472167		1.88	0.002	0.05	7.10	18.8	720	1.39	0.07	4.22	0.05	85.3	16.1	100	6.01	40.8
V472168		1.88	0.002													
V472169		<0.02	0.001													
V472170		2.13	0.002													

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1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 20-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20059818

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V472131																
V472132																
V472133																
V472134																
V472135																
V472136																
V472137																
V472138																
V472139																
V472140																
V472141																
V472142																
V472143																
V472144																
V472145		2.92	19.35	0.10	3.0	0.029	2.75	16.0	5.9	1.05	502	0.48	2.19	2.0	47.7	650
V472146																
V472147																
V472148																
V472149																
V472150																
V472151																
V472152																
V472153																
V472154																
V472155																
V472156																
V472157																
V472158																
V472159																
V472160																
V472161																
V472162																
V472163																
V472164																
V472165																
V472166																
V472167		3.37	19.50	0.10	3.7	0.023	2.53	39.4	9.5	1.62	607	1.35	2.22	3.1	63.4	1030
V472168																
V472169																
V472170																

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CERTIFICATE OF ANALYSIS VO20059818

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V472131																
V472132																
V472133																
V472134																
V472135																
V472136																
V472137																
V472138																
V472139																
V472140																
V472141																
V472142																
V472143																
V472144																
V472145		4.5	62.9	<0.002	0.02	1.52	7.6	<1	0.7	618	0.14	<0.05	2.59	0.182	0.54	0.8
V472146																
V472147																
V472148																
V472149																
V472150																
V472151																
V472152																
V472153																
V472154																
V472155																
V472156																
V472157																
V472158																
V472159																
V472160																
V472161																
V472162																
V472163																
V472164																
V472165																
V472166																
V472167		5.4	76.5	<0.002	0.03	2.53	9.0	1	0.7	1175	0.18	<0.05	5.04	0.252	0.47	1.2
V472168																
V472169																
V472170																

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CERTIFICATE OF ANALYSIS VO20059818

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V472131						
V472132						
V472133						
V472134						
V472135						
V472136						
V472137						
V472138						
V472139						
V472140						
V472141						
V472142						
V472143						
V472144						
V472145		72	0.4	7.3	64	122.5
V472146						
V472147						
V472148						
V472149						
V472150						
V472151						
V472152						
V472153						
V472154						
V472155						
V472156						
V472157						
V472158						
V472159						
V472160						
V472161						
V472162						
V472163						
V472164						
V472165						
V472166						
V472167		85	0.3	9.9	71	145.0
V472168						
V472169						
V472170						

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CERTIFICATE OF ANALYSIS VO20059818

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
V472171		2.03	0.003													
V472172		2.03	0.012													
V472173		2.08	0.005													
V472174		1.90	0.008													
V472175		2.05	0.017													
V472176		2.00	0.043													
V472177		1.91	0.104													
V472178		2.01	0.027													
V472179		2.04	0.006													
V472180		1.97	0.007													
V472181		2.04	<0.001													
V472182		1.98	0.001													
V472183		1.98	0.002													
V472184		0.93	<0.001													
V472185		1.97	0.002	0.05	7.03	12.4	570	2.61	0.14	3.32	0.07	77.9	19.4	108	6.39	44.6
V472186		2.01	0.001													
V472187		1.96	<0.001													
V472188		1.88	<0.001													
V472189		2.02	<0.001													
V472190		2.03	<0.001													
V472191		1.68	<0.001													
V472192		2.27	<0.001													
V472193		2.11	<0.001													
V472194		1.70	<0.001													
V472195		2.33	<0.001													
V472196		2.45	<0.001													
V472197		1.95	<0.001													
V472198		2.37	<0.001													
V472199		2.43	<0.001													
V472200		0.07	0.504													
V472201		2.20	<0.001													
V472202		2.11	<0.001													
V472203		2.53	<0.001													
V472204		2.06	<0.001	0.02	6.48	6.5	580	1.33	0.11	3.16	0.04	56.4	13.7	65	5.59	9.9
V472205		2.04	<0.001													
V472206		2.70	<0.001													
V472207		2.14	<0.001													
V472208		0.07	3.06													
V472209		2.12	<0.001													
V472210		1.64	<0.001													

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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20059818

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V472171																
V472172																
V472173																
V472174																
V472175																
V472176																
V472177																
V472178																
V472179																
V472180																
V472181																
V472182																
V472183																
V472184																
V472185		3.73	19.65	0.15	3.8	0.032	2.89	34.9	14.2	1.32	613	2.80	1.80	2.5	75.4	1020
V472186																
V472187																
V472188																
V472189																
V472190																
V472191																
V472192																
V472193																
V472194																
V472195																
V472196																
V472197																
V472198																
V472199																
V472200																
V472201																
V472202																
V472203																
V472204		2.88	18.55	0.13	2.7	0.027	2.87	24.4	5.3	1.01	424	0.32	1.59	3.6	54.5	880
V472205																
V472206																
V472207																
V472208																
V472209																
V472210																

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 20-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20059818

Sample Description	Method Analyte Units LOD	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
V472171																
V472172																
V472173																
V472174																
V472175																
V472176																
V472177																
V472178																
V472179																
V472180																
V472181																
V472182																
V472183																
V472184																
V472185		5.7	72.3	<0.002	0.17	0.72	9.9	<1	0.7	527	0.15	<0.05	4.51	0.227	0.55	1.0
V472186																
V472187																
V472188																
V472189																
V472190																
V472191																
V472192																
V472193																
V472194																
V472195																
V472196																
V472197																
V472198																
V472199																
V472200																
V472201																
V472202																
V472203																
V472204		6.0	69.2	<0.002	0.03	0.89	6.5	<1	0.6	731	0.20	<0.05	3.13	0.242	0.48	0.8
V472205																
V472206																
V472207																
V472208																
V472209																
V472210																

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CERTIFICATE OF ANALYSIS VO20059818

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V472171						
V472172						
V472173						
V472174						
V472175						
V472176						
V472177						
V472178						
V472179						
V472180						
V472181						
V472182						
V472183						
V472184						
V472185		90	0.9	10.1	85	146.0
V472186						
V472187						
V472188						
V472189						
V472190						
V472191						
V472192						
V472193						
V472194						
V472195						
V472196						
V472197						
V472198						
V472199						
V472200						
V472201						
V472202						
V472203						
V472204		60	0.3	7.5	65	113.0
V472205						
V472206						
V472207						
V472208						
V472209						
V472210						

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Finalized Date: 20-APR-2020
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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20059818

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V472211		2.20	<0.001													
V472212		2.03	<0.001													
V472213		2.42	<0.001													
V472214		2.19	<0.001													
V472215		2.23	<0.001													
V472216		2.44	<0.001													
V472217		2.32	<0.001													
V472218		2.27	<0.001													
V472219		2.07	<0.001													
V472220		2.40	0.001													
V472221		2.10	0.003													
V472222		2.38	0.003													
V472223		1.68	<0.001													
V472224		0.98	0.004													
V472225		0.80	0.004													
V472226		2.36	0.001	0.06	6.90	17.0	590	1.73	0.13	2.99	0.03	88.8	9.3	41	3.60	15.7
V472227		2.58	0.001													
V472228		2.12	<0.001													
V472229		2.52	<0.001													
V472230		2.30	0.001													
V472231		2.30	0.030													
V472232		2.46	0.002													
V472233		2.40	<0.001													
V472234		2.28	<0.001													
V472235		2.16	<0.001													
V472236		2.14	0.002													
V472237		2.18	<0.001													
V472238		2.41	<0.001													
V472239		2.31	<0.001													
V472240		0.80	<0.001													
V472241		2.30	<0.001													
V472242		2.39	<0.001													
V472243		2.25	0.007													
V472244		2.48	<0.001													
V472245		2.29	<0.001	0.02	6.31	4.8	920	2.00	0.05	3.52	0.05	84.3	10.1	38	3.89	4.4
V472246		2.39	<0.001													
V472247		2.29	<0.001													
V472248		2.29	<0.001													
V472249		2.50	0.001													
V472250		2.33	<0.001													

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SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 20-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20059818

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V472211																
V472212																
V472213																
V472214																
V472215																
V472216																
V472217																
V472218																
V472219																
V472220																
V472221																
V472222																
V472223																
V472224																
V472225																
V472226		2.47	20.8	0.17	3.3	0.026	2.38	39.0	21.8	0.79	421	0.48	3.35	5.5	27.5	1130
V472227																
V472228																
V472229																
V472230																
V472231																
V472232																
V472233																
V472234																
V472235																
V472236																
V472237																
V472238																
V472239																
V472240																
V472241																
V472242																
V472243																
V472244																
V472245		2.53	20.2	0.17	3.0	0.029	3.13	36.7	14.6	0.83	408	0.12	2.35	5.1	29.8	1060
V472246																
V472247																
V472248																
V472249																
V472250																

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CERTIFICATE OF ANALYSIS VO20059818

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V472211																
V472212																
V472213																
V472214																
V472215																
V472216																
V472217																
V472218																
V472219																
V472220																
V472221																
V472222																
V472223																
V472224																
V472225																
V472226		5.7	55.5	<0.002	0.15	1.85	5.5	<1	0.7	779	0.24	<0.05	5.78	0.242	0.33	1.4
V472227																
V472228																
V472229																
V472230																
V472231																
V472232																
V472233																
V472234																
V472235																
V472236																
V472237																
V472238																
V472239																
V472240																
V472241																
V472242																
V472243																
V472244																
V472245		6.4	66.6	<0.002	0.05	0.71	5.2	<1	0.7	1230	0.25	<0.05	5.23	0.237	0.43	1.2
V472246																
V472247																
V472248																
V472249																
V472250																

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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20059818

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V472211						
V472212						
V472213						
V472214						
V472215						
V472216						
V472217						
V472218						
V472219						
V472220						
V472221						
V472222						
V472223						
V472224						
V472225						
V472226		59	3.0	8.9	64	139.5
V472227						
V472228						
V472229						
V472230						
V472231						
V472232						
V472233						
V472234						
V472235						
V472236						
V472237						
V472238						
V472239						
V472240						
V472241						
V472242						
V472243						
V472244						
V472245		58	1.2	8.5	63	124.5
V472246						
V472247						
V472248						
V472249						
V472250						

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SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 20-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20059818

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V472251		2.47	<0.001													
V472252		2.57	<0.001													
V472253		2.42	<0.001													
V472254		2.62	<0.001													
V472255		2.49	<0.001													
V472256		0.07	0.140													
V472257		2.48	<0.001													
V472258		2.44	<0.001													
V472259		2.53	<0.001													
V472260		2.42	<0.001													
V472261		2.52	<0.001													
V472262		1.92	<0.001													
V472263		2.22	0.003													
V472264		2.43	<0.001													
V472265		2.41	0.014	0.34	4.17	56.3	2920	2.13	0.78	15.35	0.29	>500	15.5	64	3.72	94.5
V472266		2.11	0.007													
V472267		2.06	0.009													
V472268		2.20	<0.001													

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CERTIFICATE OF ANALYSIS VO20059818

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V472251																
V472252																
V472253																
V472254																
V472255																
V472256																
V472257																
V472258																
V472259																
V472260																
V472261																
V472262																
V472263																
V472264																
V472265		3.72	16.95	0.76	2.6	0.021	2.69	339	52.7	1.78	1810	3.15	0.56	58.7	48.3	8440
V472266																
V472267																
V472268																

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CERTIFICATE OF ANALYSIS VO20059818

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V472251																
V472252																
V472253																
V472254																
V472255																
V472256																
V472257																
V472258																
V472259																
V472260																
V472261																
V472262																
V472263																
V472264																
V472265		76.7	78.9	<0.002	0.85	6.71	5.1	1	0.6	8990	0.67	0.07	13.60	0.195	0.38	7.7
V472266																
V472267																
V472268																

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TORONTO ON M5H 3W4

Finalized Date: 20-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20059818

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5
V472251						
V472252						
V472253						
V472254						
V472255						
V472256						
V472257						
V472258						
V472259						
V472260						
V472261						
V472262						
V472263						
V472264						
V472265		290	7.4	42.2	159	133.0
V472266						
V472267						
V472268						

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Finalized Date: 20-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20059818

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REE's may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

CRU-31	CRU-QC	LOG-21	LOG-21d
LOG-23	PUL-31	PUL-31d	PUL-QC
SPL-21	SPL-21d	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	ME-MS61

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SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 27-APR-2020
Account: VISAU

CERTIFICATE VO20069201

Project: DOUAY

P.O. No.: Shipment MGM2004

This report is for 150 Drill Core samples submitted to our lab in Val d'Or, QC, Canada on 24-MAR-2020.

The following have access to data associated with this certificate:

WEBTRIEVE (AURVISTA) ACCESS EVEN STAVRE	VIVIAN PARK	FRED SPEIDEL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SPL-21d	Split sample - duplicate
LOG-21d	Sample logging - ClientBarCode Dup
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
PUL-31d	Pulverize Split - duplicate
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 27-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20069201

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
A0101897		2.65	0.014													
A0101898		2.61	0.010													
A0101899		2.60	0.006													
A0101900		2.80	0.004													
A0101901		2.85	0.007	0.10	6.89	4.9	160	0.85	0.18	11.05	0.18	64.4	45.7	62	2.03	148.5
A0101902		2.81	0.006													
A0101903		2.62	0.009													
A0101904		0.07	0.510													
A0101905		2.60	0.016													
A0101906		2.36	0.018													
A0101907		2.48	0.011													
A0101908		2.42	0.021													
A0101909		2.88	0.036													
A0101910		2.68	0.033													
A0101911		2.35	0.011													
A0101912		2.37	0.027													
A0101913		3.22	0.020													
A0101914		2.20	0.005													
A0101915		2.54	0.006													
A0101916		2.77	0.007													
A0101917		2.34	0.003													
A0101918		2.01	0.005													
A0101919		2.63	0.007													
A0101920		0.98	0.010	0.21	5.90	4.3	210	1.12	0.25	10.50	0.11	108.0	40.2	55	1.40	205
A0101921		0.81	0.009													
A0101922		2.67	0.010													
A0101923		2.18	0.028													
A0101924		2.36	0.055													
A0101925		2.35	0.060													
A0101926		2.36	0.027													
A0101927		2.38	0.016													
A0101928		2.58	0.008													
A0101929		2.31	0.047													
A0101930		2.24	0.017													
A0101931		2.64	0.118													
A0101932		2.38	0.112													
A0101933		2.33	0.070													
A0101934		2.40	1.195													
A0101935		2.40	0.305													
A0101936		0.84	<0.001													

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CERTIFICATE OF ANALYSIS VO20069201

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
A0101897																
A0101898																
A0101899																
A0101900																
A0101901		9.80	14.55	0.09	1.3	0.060	0.74	37.9	52.9	2.04	2350	3.15	3.04	3.1	37.8	320
A0101902																
A0101903																
A0101904																
A0101905																
A0101906																
A0101907																
A0101908																
A0101909																
A0101910																
A0101911																
A0101912																
A0101913																
A0101914																
A0101915																
A0101916																
A0101917																
A0101918																
A0101919																
A0101920		9.49	12.95	0.11	1.2	0.060	0.54	64.1	36.7	1.70	2590	1.98	3.25	4.1	34.5	340
A0101921																
A0101922																
A0101923																
A0101924																
A0101925																
A0101926																
A0101927																
A0101928																
A0101929																
A0101930																
A0101931																
A0101932																
A0101933																
A0101934																
A0101935																
A0101936																

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Sample Description	Method Analyte Units LOD	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
A0101897 A0101898 A0101899 A0101900 A0101901		10.3	36.3	0.002	0.78	0.36	39.9	2	0.4	939	0.13	0.07	1.36	0.501	0.24	0.7
A0101902 A0101903 A0101904 A0101905 A0101906																
A0101907 A0101908 A0101909 A0101910 A0101911																
A0101912 A0101913 A0101914 A0101915 A0101916																
A0101917 A0101918 A0101919 A0101920 A0101921		8.8	27.3	<0.002	1.46	0.34	38.2	1	0.4	794	0.12	0.26	2.06	0.427	0.16	1.0
A0101922 A0101923 A0101924 A0101925 A0101926																
A0101927 A0101928 A0101929 A0101930 A0101931																
A0101932 A0101933 A0101934 A0101935 A0101936																

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Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
A0101897						
A0101898						
A0101899						
A0101900						
A0101901		256	1.6	22.3	106	45.9
A0101902						
A0101903						
A0101904						
A0101905						
A0101906						
A0101907						
A0101908						
A0101909						
A0101910						
A0101911						
A0101912						
A0101913						
A0101914						
A0101915						
A0101916						
A0101917						
A0101918						
A0101919						
A0101920		243	5.0	24.1	101	43.0
A0101921						
A0101922						
A0101923						
A0101924						
A0101925						
A0101926						
A0101927						
A0101928						
A0101929						
A0101930						
A0101931						
A0101932						
A0101933						
A0101934						
A0101935						
A0101936						

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Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
A0101937		2.38	0.328													
A0101938		2.50	0.609													
A0101939		2.40	0.418													
A0101940		2.34	0.996	0.72	6.38	6.1	530	3.48	0.45	6.92	0.13	38.2	47.4	62	5.53	98.5
A0101941		2.45	0.182													
A0101942		2.29	0.264													
A0101943		2.47	0.177													
A0101944		2.07	0.702													
A0101945		1.66	0.555													
A0101946		1.74	0.193													
A0101947		1.74	0.112													
A0101948		2.40	0.398													
A0101949		2.25	0.091													
A0101950		2.46	0.023													
A0101951		2.51	0.029													
A0101952		0.07	3.07													
A0101953		2.29	0.073													
A0101954		2.07	0.026													
A0101955		2.58	0.034													
A0101956		2.26	0.017													
A0101957		2.18	0.010													
A0101958		2.32	0.016													
A0101959		2.28	0.016													
A0101960		2.22	0.012	0.06	5.36	0.7	70	2.16	0.22	0.93	0.04	23.4	1.2	36	0.73	2.9
A0101961		2.38	0.015													
A0101962		2.18	0.018													
A0101963		2.03	0.013													
A0101964		2.32	0.015													
A0101965		2.19	0.027													
A0101966		2.40	0.141													
A0101967		1.94	0.079													
A0101968		2.24	1.870													
A0101969		<0.02	1.550													
A0101970		2.21	1.210													
A0101971		2.23	0.510													
A0101972		2.28	0.213													
A0101973		2.37	0.103													
A0101974		2.27	0.107													
A0101975		2.40	0.152													
A0101976		2.35	0.528													

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CERTIFICATE OF ANALYSIS VO20069201

Sample Description	Method Analyte Units LOD	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10
A0101937 A0101938 A0101939 A0101940 A0101941		8.48	14.80	0.09	1.6	0.072	1.92	19.4	108.5	3.43	1560	1.33	3.37	3.4	112.0	400
A0101942 A0101943 A0101944 A0101945 A0101946																
A0101947 A0101948 A0101949 A0101950 A0101951																
A0101952 A0101953 A0101954 A0101955 A0101956																
A0101957 A0101958 A0101959 A0101960 A0101961		1.14	18.45	0.06	0.7	<0.005	2.62	10.9	0.6	0.12	160	2.69	3.11	1.8	1.4	70
A0101962 A0101963 A0101964 A0101965 A0101966																
A0101967 A0101968 A0101969 A0101970 A0101971																
A0101972 A0101973 A0101974 A0101975 A0101976																

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CERTIFICATE OF ANALYSIS VO20069201

Sample Description	Method Analyte Units LOD	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
A0101937 A0101938 A0101939 A0101940 A0101941		9.5	73.9	<0.002	2.55	0.96	33.7	2	0.6	463	0.15	1.78	2.15	0.473	0.45	0.9
A0101942 A0101943 A0101944 A0101945 A0101946																
A0101947 A0101948 A0101949 A0101950 A0101951																
A0101952 A0101953 A0101954 A0101955 A0101956																
A0101957 A0101958 A0101959 A0101960 A0101961		4.0	82.5	<0.002	0.80	0.25	0.7	1	0.2	146.0	<0.05	0.52	1.62	0.027	0.24	0.4
A0101962 A0101963 A0101964 A0101965 A0101966																
A0101967 A0101968 A0101969 A0101970 A0101971																
A0101972 A0101973 A0101974 A0101975 A0101976																

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Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
A0101937 A0101938 A0101939 A0101940 A0101941		258	25.2	22.1	95	64.1
A0101942 A0101943 A0101944 A0101945 A0101946						
A0101947 A0101948 A0101949 A0101950 A0101951						
A0101952 A0101953 A0101954 A0101955 A0101956						
A0101957 A0101958 A0101959 A0101960 A0101961		6	2.9	1.8	21	22.7
A0101962 A0101963 A0101964 A0101965 A0101966						
A0101967 A0101968 A0101969 A0101970 A0101971						
A0101972 A0101973 A0101974 A0101975 A0101976						

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Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
A0101977		2.44	1.115													
A0101978		2.23	0.484													
A0101979		2.22	0.157													
A0101980		2.33	0.084	0.11	6.43	3.6	290	7.83	0.33	6.30	0.10	42.1	41.1	77	7.21	83.8
A0101981		2.63	0.263													
A0101982		2.27	0.789													
A0101983		1.95	0.193													
A0101984		0.68	0.001													
A0101985		2.15	0.261													
A0101986		2.18	0.030													
A0101987		2.61	0.012													
A0101988		2.42	0.009													
A0101989		2.30	0.110													
A0101990		1.95	0.061													
A0101991		2.29	0.013													
A0101992		2.26	0.005													
A0101993		2.70	0.010													
A0101994		2.30	0.016													
A0101995		2.26	0.008													
A0101996		2.36	0.005													
A0101997		2.49	0.007													
A0101998		2.14	0.005													
A0101999		2.69	0.010													
A0102000		0.07	0.143													
A0102001		2.48	0.006	0.08	7.92	7.9	250	0.64	0.24	6.37	0.06	14.40	58.6	184	0.71	106.0
A0102002		2.36	0.005													
A0102003		2.34	0.005													
A0102004		2.48	0.004													
A0102005		2.33	0.005													
A0102006		2.76	0.007													
A0102007		2.75	0.008													
A0102008		0.07	0.150													
A0102009		2.56	0.015													
A0102010		2.19	0.005													
A0102011		2.51	0.001													
A0102012		2.44	0.013													
A0102013		3.08	0.030													
A0102014		2.04	0.007													
A0102015		2.46	0.005													
A0102016		2.60	0.005													

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Sample Description	Method Analyte Units LOD	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10
A0101977 A0101978 A0101979 A0101980 A0101981		8.09	14.35	0.09	1.3	0.064	2.32	21.9	172.0	3.91	1570	1.04	3.24	2.9	97.1	390
A0101982 A0101983 A0101984 A0101985 A0101986																
A0101987 A0101988 A0101989 A0101990 A0101991																
A0101992 A0101993 A0101994 A0101995 A0101996																
A0101997 A0101998 A0101999 A0102000 A0102001		7.03	16.65	0.07	1.2	0.070	0.73	6.2	33.7	2.70	1930	0.73	3.31	2.5	130.5	300
A0102002 A0102003 A0102004 A0102005 A0102006																
A0102007 A0102008 A0102009 A0102010 A0102011																
A0102012 A0102013 A0102014 A0102015 A0102016																

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A0101977 A0101978 A0101979 A0101980 A0101981		10.5	120.5	0.002	1.02	0.83	31.8	1	0.4	475	0.13	0.36	1.22	0.465	0.64	0.4
A0101982 A0101983 A0101984 A0101985 A0101986																
A0101987 A0101988 A0101989 A0101990 A0101991																
A0101992 A0101993 A0101994 A0101995 A0101996																
A0101997 A0101998 A0101999 A0102000 A0102001		4.8	24.0	0.003	0.41	0.53	42.0	1	0.7	545	0.14	0.06	0.38	0.575	0.21	0.1
A0102002 A0102003 A0102004 A0102005 A0102006																
A0102007 A0102008 A0102009 A0102010 A0102011																
A0102012 A0102013 A0102014 A0102015 A0102016																

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 27-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20069201

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
A0101977 A0101978 A0101979 A0101980 A0101981		297	8.6	19.9	80	47.9
A0101982 A0101983 A0101984 A0101985 A0101986						
A0101987 A0101988 A0101989 A0101990 A0101991						
A0101992 A0101993 A0101994 A0101995 A0101996						
A0101997 A0101998 A0101999 A0102000 A0102001		291	0.8	20.9	129	42.3
A0102002 A0102003 A0102004 A0102005 A0102006						
A0102007 A0102008 A0102009 A0102010 A0102011						
A0102012 A0102013 A0102014 A0102015 A0102016						

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CERTIFICATE OF ANALYSIS VO20069201

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
A0102017		2.26	0.005													
A0102018		2.33	0.005													
A0102019		2.75	0.006													
A0102020		2.64	0.011	0.15	7.55	3.3	240	0.86	0.26	4.70	0.08	26.7	47.6	74	2.51	172.5
A0102021		2.26	0.004													
A0102022		2.39	0.008													
A0102023		2.44	0.013													
A0102024		1.22	0.010													
A0102025		1.14	0.007													
A0102026		2.33	0.009													
A0102027		2.36	0.017													
A0102028		2.40	0.019													
A0102029		2.60	0.042													
A0102030		2.35	0.010													
A0102031		2.29	0.022													
A0102032		2.50	0.074													
A0102033		2.32	0.096													
A0102034		2.45	0.032													
A0102035		2.54	0.038													
A0102036		2.03	0.014													
A0102037		2.32	0.011													
A0102038		2.34	0.011	0.10	6.61	5.2	130	1.33	0.72	6.92	0.10	109.0	37.1	119	5.40	54.1
A0102039		2.24	0.013													
A0102040		0.92	<0.001													
A0102041		2.31	0.003													
A0102042		2.33	0.004													
A0102043		2.50	0.009													
A0102044		2.47	0.025													
A0102045		2.62	0.010													
A0102046		2.38	0.004													

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Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20069201

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
A0102017 A0102018 A0102019 A0102020 A0102021		11.20	16.15	0.09	1.3	0.072	0.62	14.2	31.1	2.42	1760	1.02	4.39	3.1	39.5	390
A0102022 A0102023 A0102024 A0102025 A0102026																
A0102027 A0102028 A0102029 A0102030 A0102031																
A0102032 A0102033 A0102034 A0102035 A0102036																
A0102037 A0102038 A0102039 A0102040 A0102041		7.42	19.25	0.16	4.1	0.062	0.80	48.3	65.2	2.90	1880	1.83	3.24	18.3	95.3	1990
A0102042 A0102043 A0102044 A0102045 A0102046																

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CERTIFICATE OF ANALYSIS VO20069201

Sample Description	Method Analyte Units LOD	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
A0102017 A0102018 A0102019 A0102020 A0102021		4.7	29.2	0.002	0.68	0.53	44.3	2	1.3	626	0.15	0.10	0.86	0.567	0.24	0.2
A0102022 A0102023 A0102024 A0102025 A0102026																
A0102027 A0102028 A0102029 A0102030 A0102031																
A0102032 A0102033 A0102034 A0102035 A0102036																
A0102037 A0102038 A0102039 A0102040 A0102041		4.9	48.2	0.002	0.88	0.40	16.1	1	1.4	513	0.56	0.10	2.62	1.240	0.43	1.6
A0102042 A0102043 A0102044 A0102045 A0102046																

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CERTIFICATE OF ANALYSIS VO20069201

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
A0102017 A0102018 A0102019 A0102020 A0102021		298	1.0	22.5	144	47.7
A0102022 A0102023 A0102024 A0102025 A0102026						
A0102027 A0102028 A0102029 A0102030 A0102031						
A0102032 A0102033 A0102034 A0102035 A0102036						
A0102037 A0102038 A0102039 A0102040 A0102041		175	3.6	24.9	169	173.5
A0102042 A0102043 A0102044 A0102045 A0102046						

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Finalized Date: 27-APR-2020
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CERTIFICATE OF ANALYSIS VO20069201

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REEs may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

CRU-31	CRU-QC	LOG-21	LOG-21d
LOG-23	PUL-31	PUL-31d	PUL-QC
SPL-21	SPL-21d	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	ME-MS61

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Finalized Date: 24-APR-2020
Account: VISAU

CERTIFICATE VO20069213

Project: DOUAY

P.O. No.: Shipment MGM2004

This report is for 150 Drill Core samples submitted to our lab in Val d'Or, QC, Canada on 24-MAR-2020.

The following have access to data associated with this certificate:

WEBTRIEVE (AURVISTA) ACCESS EVEN STAVRE	VIVIAN PARK	FRED SPEIDEL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SPL-21d	Split sample - duplicate
LOG-21d	Sample logging - ClientBarCode Dup
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
PUL-31d	Pulverize Split - duplicate
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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CERTIFICATE OF ANALYSIS VO20069213

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
A0102047		2.27	0.010													
A0102048		2.38	0.005													
A0102049		2.33	0.013													
A0102050		2.23	0.004													
A0102051		2.43	0.005													
A0102052		2.31	0.003													
A0102053		2.27	0.005													
A0102054		2.15	0.009													
A0102055		2.02	0.007													
A0102056		0.07	0.497													
A0102057		2.20	0.014													
A0102058		2.82	0.097													
A0102059		2.51	0.033													
A0102060		2.69	0.057													
A0102061		2.28	0.022	0.13	6.97	13.2	950	2.21	0.39	7.68	0.12	118.5	41.0	155	1.05	47.3
A0102062		2.43	0.058													
A0102063		2.30	0.002													
A0102064		2.21	0.008													
A0102065		2.47	0.015													
A0102066		2.32	0.007													
A0102067		2.46	0.005													
A0102068		2.50	0.006													
A0102069		2.51	0.007													
A0102070		2.63	0.021													
A0102071		2.48	0.020													
A0102072		2.32	0.011													
A0102073		<0.02	0.012													
A0102074		2.65	0.002													
A0102075		2.44	0.004													
A0102076		2.57	0.010													
A0102077		2.73	0.011													
A0102078		2.53	0.001													
A0102079		2.35	0.030													
A0102080		2.44	0.015	0.16	6.99	6.1	110	1.06	0.33	7.88	0.08	11.45	55.0	163	1.94	170.0
A0102081		2.24	0.004													
A0102082		2.38	0.011													
A0102083		2.40	0.005													
A0102084		2.37	0.005													
A0102085		2.38	0.020													
A0102086		2.32	0.009													

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CERTIFICATE OF ANALYSIS VO20069213

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
A0102047																
A0102048																
A0102049																
A0102050																
A0102051																
A0102052																
A0102053																
A0102054																
A0102055																
A0102056																
A0102057																
A0102058																
A0102059																
A0102060																
A0102061		9.16	15.75	0.20	1.7	0.087	2.48	59.4	75.7	2.30	2060	1.08	0.04	6.1	162.5	300
A0102062																
A0102063																
A0102064																
A0102065																
A0102066																
A0102067																
A0102068																
A0102069																
A0102070																
A0102071																
A0102072																
A0102073																
A0102074																
A0102075																
A0102076																
A0102077																
A0102078																
A0102079																
A0102080		8.97	14.60	0.10	1.4	0.070	0.31	4.6	59.3	2.87	1990	0.40	2.66	2.8	120.0	240
A0102081																
A0102082																
A0102083																
A0102084																
A0102085																
A0102086																

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
A0102047 A0102048 A0102049 A0102050 A0102051																
A0102052 A0102053 A0102054 A0102055 A0102056																
A0102057 A0102058 A0102059 A0102060 A0102061		7.0	74.4	0.002	2.58	0.49	35.0	3	1.2	187.5	0.14	0.31	3.90	0.387	0.36	1.5
A0102062 A0102063 A0102064 A0102065 A0102066																
A0102067 A0102068 A0102069 A0102070 A0102071																
A0102072 A0102073 A0102074 A0102075 A0102076																
A0102077 A0102078 A0102079 A0102080 A0102081		3.0	16.8	0.002	0.68	0.36	39.4	1	0.7	267	0.14	0.17	0.32	0.525	0.13	0.2
A0102082 A0102083 A0102084 A0102085 A0102086																

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CERTIFICATE OF ANALYSIS VO20069213

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
A0102047						
A0102048						
A0102049						
A0102050						
A0102051						
A0102052						
A0102053						
A0102054						
A0102055						
A0102056						
A0102057						
A0102058						
A0102059						
A0102060						
A0102061		241	8.3	9.9	87	65.4
A0102062						
A0102063						
A0102064						
A0102065						
A0102066						
A0102067						
A0102068						
A0102069						
A0102070						
A0102071						
A0102072						
A0102073						
A0102074						
A0102075						
A0102076						
A0102077						
A0102078						
A0102079						
A0102080		264	13.3	21.0	128	47.1
A0102081						
A0102082						
A0102083						
A0102084						
A0102085						
A0102086						

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Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
A0102087		2.55	0.002													
A0102088		0.67	0.003													
A0102089		2.54	0.002													
A0102090		2.40	0.021													
A0102091		2.42	0.011													
A0102092		2.46	0.001													
A0102093		2.28	0.003													
A0102094		2.39	0.006													
A0102095		2.66	0.004													
A0102096		2.67	0.003													
A0102097		2.31	0.001													
A0102098		2.14	0.003													
A0102099		2.42	0.001													
A0102100		2.22	0.004	0.13	7.18	10.6	220	1.32	0.16	7.18	0.06	41.9	57.9	175	1.74	158.5
A0102101		2.09	0.001													
A0102102		2.33	0.051													
A0102103		2.23	0.018													
A0102104		0.07	2.98													
A0102105		2.13	0.006													
A0102106		2.29	0.006													
A0102107		2.20	0.003													
A0102108		2.22	0.019													
A0102109		2.16	0.026													
A0102110		2.19	0.034													
A0102111		2.32	0.026													
A0102112		1.92	0.004													
A0102113		2.16	0.002													
A0102114		2.08	0.091													
A0102115		2.28	0.015													
A0102116		2.18	0.008													
A0102117		2.36	0.013													
A0102118		1.82	0.019													
A0102119		2.27	0.007													
A0102120		1.13	0.009	0.10	8.05	6.2	230	1.04	0.28	7.97	0.05	13.75	63.2	199	1.36	127.0
A0102121		1.12	0.008													
A0102122		2.32	0.080													
A0102123		2.44	0.010													
A0102124		2.15	0.003													
A0102125		2.16	0.004													
A0102126		2.43	0.037													

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 24-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20069213

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
A0102087																
A0102088																
A0102089																
A0102090																
A0102091																
A0102092																
A0102093																
A0102094																
A0102095																
A0102096																
A0102097																
A0102098																
A0102099																
A0102100		8.46	15.40	0.11	1.2	0.075	0.64	21.0	52.6	2.22	1640	1.28	2.95	7.7	98.4	320
A0102101																
A0102102																
A0102103																
A0102104																
A0102105																
A0102106																
A0102107																
A0102108																
A0102109																
A0102110																
A0102111																
A0102112																
A0102113																
A0102114																
A0102115																
A0102116																
A0102117																
A0102118																
A0102119																
A0102120		7.81	16.60	0.08	1.4	0.062	0.57	6.5	31.5	2.25	1900	1.12	3.68	2.4	121.0	300
A0102121																
A0102122																
A0102123																
A0102124																
A0102125																
A0102126																

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Finalized Date: 24-APR-2020
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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20069213

Sample Description	Method Analyte Units LOD	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
A0102087																
A0102088																
A0102089																
A0102090																
A0102091																
A0102092																
A0102093																
A0102094																
A0102095																
A0102096																
A0102097																
A0102098																
A0102099																
A0102100		4.3	31.0	0.004	0.92	0.57	37.8	2	0.8	342	0.15	0.11	1.40	0.515	0.19	0.8
A0102101																
A0102102																
A0102103																
A0102104																
A0102105																
A0102106																
A0102107																
A0102108																
A0102109																
A0102110																
A0102111																
A0102112																
A0102113																
A0102114																
A0102115																
A0102116																
A0102117																
A0102118																
A0102119																
A0102120		5.6	23.8	0.002	0.98	0.85	42.8	1	0.5	773	0.14	0.13	0.31	0.576	0.14	0.2
A0102121																
A0102122																
A0102123																
A0102124																
A0102125																
A0102126																

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CERTIFICATE OF ANALYSIS VO20069213

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
A0102087 A0102088 A0102089 A0102090 A0102091						
A0102092 A0102093 A0102094 A0102095 A0102096						
A0102097 A0102098 A0102099 A0102100 A0102101		266	1.3	19.8	119	40.0
A0102102 A0102103 A0102104 A0102105 A0102106						
A0102107 A0102108 A0102109 A0102110 A0102111						
A0102112 A0102113 A0102114 A0102115 A0102116						
A0102117 A0102118 A0102119 A0102120 A0102121		281	4.9	22.3	91	51.7
A0102122 A0102123 A0102124 A0102125 A0102126						

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CERTIFICATE OF ANALYSIS VO20069213

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
A0102127		2.37	0.004													
A0102128		2.11	0.003													
A0102129		2.30	0.006													
A0102130		2.30	0.015													
A0102131		2.30	0.008													
A0102132		2.26	0.012													
A0102133		2.22	0.019													
A0102134		2.36	0.009													
A0102135		2.22	0.006													
A0102136		0.84	0.003													
A0102137		2.24	0.006													
A0102138		2.29	0.005													
A0102139		2.23	0.005													
A0102140		2.05	0.007	0.10	7.37	6.8	160	2.10	0.16	5.94	0.06	16.45	51.9	148	5.57	105.0
A0102141		2.30	0.032													
A0102142		2.28	0.008													
A0102143		2.20	0.004													
A0102144		2.25	0.008													
A0102145		2.26	0.006													
A0102146		2.26	0.004													
A0102147		2.31	0.003													
A0102148		2.82	0.007													
A0102149		2.19	0.021													
A0102150		1.80	0.035													
A0102151		2.32	0.037													
A0102152		0.07	0.143													
A0102153		2.10	0.010													
A0102154		1.60	0.038													
A0102155		2.24	0.040													
A0102156		2.32	0.037													
A0102157		2.28	0.014													
A0102158		2.10	0.020													
A0102159		2.27	0.020													
A0102160		2.50	0.036	0.09	5.61	5.7	20	0.57	0.24	5.70	0.04	11.25	61.9	687	3.25	72.8
A0102161		2.13	0.032													
A0102162		2.23	0.005													
A0102163		2.39	0.012													
A0102164		2.27	0.016													
A0102165		2.33	0.007													
A0102166		1.96	0.008													

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Finalized Date: 24-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20069213

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
A0102127																
A0102128																
A0102129																
A0102130																
A0102131																
A0102132																
A0102133																
A0102134																
A0102135																
A0102136																
A0102137																
A0102138																
A0102139																
A0102140		7.79	16.00	0.09	1.7	0.049	1.01	8.2	91.3	2.51	1580	0.55	3.64	4.0	116.0	250
A0102141																
A0102142																
A0102143																
A0102144																
A0102145																
A0102146																
A0102147																
A0102148																
A0102149																
A0102150																
A0102151																
A0102152																
A0102153																
A0102154																
A0102155																
A0102156																
A0102157																
A0102158																
A0102159																
A0102160		7.89	11.55	0.09	1.0	0.055	0.39	3.9	77.4	8.62	1330	1.75	2.06	1.8	391	260
A0102161																
A0102162																
A0102163																
A0102164																
A0102165																
A0102166																

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CERTIFICATE OF ANALYSIS VO20069213

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
A0102127 A0102128 A0102129 A0102130 A0102131																
A0102132 A0102133 A0102134 A0102135 A0102136																
A0102137 A0102138 A0102139 A0102140 A0102141		4.2	53.5	<0.002	0.38	0.64	36.6	1	0.3	488	0.13	0.09	2.83	0.421	0.36	0.9
A0102142 A0102143 A0102144 A0102145 A0102146																
A0102147 A0102148 A0102149 A0102150 A0102151																
A0102152 A0102153 A0102154 A0102155 A0102156																
A0102157 A0102158 A0102159 A0102160 A0102161		2.6	19.4	0.002	0.29	1.63	34.7	1	0.4	206	0.10	0.05	0.46	0.362	0.22	0.1
A0102162 A0102163 A0102164 A0102165 A0102166																

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Finalized Date: 24-APR-2020
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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20069213

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
A0102127 A0102128 A0102129 A0102130 A0102131						
A0102132 A0102133 A0102134 A0102135 A0102136						
A0102137 A0102138 A0102139 A0102140 A0102141		233	2.8	14.1	68	77.6
A0102142 A0102143 A0102144 A0102145 A0102146						
A0102147 A0102148 A0102149 A0102150 A0102151						
A0102152 A0102153 A0102154 A0102155 A0102156						
A0102157 A0102158 A0102159 A0102160 A0102161		198	1.3	13.3	144	31.7
A0102162 A0102163 A0102164 A0102165 A0102166						

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CERTIFICATE OF ANALYSIS VO20069213

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
A0102167		2.17	0.034													
A0102168		2.09	0.027													
A0102169		<0.02	0.015													
A0102170		2.12	0.034													
A0102171		2.10	0.009													
A0102172		1.99	0.027													
A0102173		1.52	0.015													
A0102174		1.44	0.007													
A0102175		1.91	0.006													
A0102176		1.79	0.005													
A0102177		2.01	0.005													
A0102178		2.30	0.013													
A0102179		2.10	0.022													
A0102180		2.16	0.013	0.04	7.38	2.2	240	3.04	0.21	3.42	0.10	59.3	5.5	21	3.68	12.1
A0102181		2.13	0.008													
A0102182		2.04	0.015													
A0102183		1.94	0.023													
A0102184		0.84	0.008													
A0102185		1.96	0.004													
A0102186		2.12	0.003													
A0102187		1.93	0.003													
A0102188		1.89	0.003													
A0102189		1.76	0.002													
A0102190		2.25	0.003													
A0102191		2.01	0.008													
A0102192		2.21	0.002													
A0102193		2.16	0.003													
A0102194		2.03	0.007													
A0102195		2.31	0.004													
A0102196		2.21	0.174													

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Finalized Date: 24-APR-2020
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CERTIFICATE OF ANALYSIS VO20069213

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
A0102167																
A0102168																
A0102169																
A0102170																
A0102171																
A0102172																
A0102173																
A0102174																
A0102175																
A0102176																
A0102177																
A0102178																
A0102179																
A0102180		2.07	21.4	0.12	3.0	0.012	0.72	24.4	44.5	0.66	426	1.63	6.32	9.1	16.3	650
A0102181																
A0102182																
A0102183																
A0102184																
A0102185																
A0102186																
A0102187																
A0102188																
A0102189																
A0102190																
A0102191																
A0102192																
A0102193																
A0102194																
A0102195																
A0102196																

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CERTIFICATE OF ANALYSIS VO20069213

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
A0102167 A0102168 A0102169 A0102170 A0102171																
A0102172 A0102173 A0102174 A0102175 A0102176																
A0102177 A0102178 A0102179 A0102180 A0102181		8.3	24.4	<0.002	0.14	1.06	4.9	1	0.5	544	0.20	<0.05	6.67	0.198	0.22	0.9
A0102182 A0102183 A0102184 A0102185 A0102186																
A0102187 A0102188 A0102189 A0102190 A0102191																
A0102192 A0102193 A0102194 A0102195 A0102196																

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CERTIFICATE OF ANALYSIS VO20069213

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
A0102167 A0102168 A0102169 A0102170 A0102171						
A0102172 A0102173 A0102174 A0102175 A0102176						
A0102177 A0102178 A0102179 A0102180 A0102181		51	3.0	8.3	17	113.0
A0102182 A0102183 A0102184 A0102185 A0102186						
A0102187 A0102188 A0102189 A0102190 A0102191						
A0102192 A0102193 A0102194 A0102195 A0102196						

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Finalized Date: 24-APR-2020
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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20069213

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

Applies to Method:				
CRU-31	CRU-QC	LOG-21	LOG-21d
LOG-23	PUL-31	PUL-31d	PUL-QC
SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:	
Au-ICP21	ME-MS61

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To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 24-APR-2020
Account: VISAU

CERTIFICATE VO20069218

Project: DOUAY

P.O. No.: Shipment MGM2004

This report is for 151 Drill Core samples submitted to our lab in Val d'Or, QC, Canada on 24-MAR-2020.

The following have access to data associated with this certificate:

WEBTRIEVE (AURVISTA) ACCESS EVEN STAVRE	VIVIAN PARK	FRED SPEIDEL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SPL-21d	Split sample - duplicate
LOG-21d	Sample logging - ClientBarCode Dup
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
PUL-31d	Pulverize Split - duplicate
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20069218

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
A0102197		2.14	0.008													
A0102198		2.04	0.007													
A0102199		2.19	0.006	0.12	7.28	2.1	790	1.84	0.48	2.45	0.05	57.8	8.6	23	0.66	54.8
A0102200		0.07	0.509													
A0102201		1.95	0.002													
A0102202		2.14	0.011													
A0102203		1.79	0.023													
A0102204		1.12	0.071													
A0102205		1.30	0.025													
A0102206		2.01	0.003													
A0102207		1.16	0.002													
A0102208		0.07	3.09													
A0102209		2.07	0.004													
A0102210		1.74	0.003													
A0102211		1.53	0.003													
A0102212		1.44	0.005													
A0102213		1.26	0.004													
A0102214		2.15	0.009													
A0102215		2.25	0.007													
A0102216		2.17	0.024													
A0102217		1.99	0.016													
A0102218		2.06	0.011													
A0102219		2.15	0.005	0.05	7.40	1.5	430	1.20	0.23	2.02	0.07	59.6	10.9	19	0.73	32.1
A0102220		1.55	0.001													
A0102221		1.58	0.003													
A0102222		1.50	0.041													
A0102223		1.55	0.226													
A0102224		0.66	0.021													
A0102225		0.88	0.028													
A0102226		1.91	0.123													
A0102227		1.83	0.185													
A0102228		2.07	0.047													
A0102229		1.98	0.078													
A0102230		1.99	0.408													
A0102231		1.99	0.305													
A0102232		2.24	0.717													
A0102233		1.99	0.511													
A0102234		2.07	0.082													
A0102235		1.94	0.071													
A0102236		1.93	0.045													

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CERTIFICATE OF ANALYSIS VO20069218

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
A0102197 A0102198 A0102199 A0102200 A0102201		1.93	24.7	0.13	2.8	0.014	1.75	23.2	50.9	0.61	442	26.2	5.92	5.7	14.6	570
A0102202 A0102203 A0102204 A0102205 A0102206																
A0102207 A0102208 A0102209 A0102210 A0102211																
A0102212 A0102213 A0102214 A0102215 A0102216																
A0102217 A0102218 A0102219 A0102220 A0102221		1.96	22.2	0.11	2.6	0.011	0.97	28.9	24.4	0.73	338	22.3	5.30	3.7	16.2	550
A0102222 A0102223 A0102224 A0102225 A0102226																
A0102227 A0102228 A0102229 A0102230 A0102231																
A0102232 A0102233 A0102234 A0102235 A0102236																

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CERTIFICATE OF ANALYSIS VO20069218

Sample Description	Method Analyte Units LOD	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
A0102197 A0102198 A0102199 A0102200 A0102201		7.8	28.1	0.045	0.98	1.52	3.9	1	0.4	859	0.13	0.08	3.72	0.119	0.15	0.9
A0102202 A0102203 A0102204 A0102205 A0102206																
A0102207 A0102208 A0102209 A0102210 A0102211																
A0102212 A0102213 A0102214 A0102215 A0102216																
A0102217 A0102218 A0102219 A0102220 A0102221		4.9	26.4	0.006	0.45	1.81	4.4	1	0.4	417	0.14	0.05	4.04	0.148	0.13	1.3
A0102222 A0102223 A0102224 A0102225 A0102226																
A0102227 A0102228 A0102229 A0102230 A0102231																
A0102232 A0102233 A0102234 A0102235 A0102236																

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A0102197 A0102198 A0102199 A0102200 A0102201		29	2.3	5.4	21	110.5
A0102202 A0102203 A0102204 A0102205 A0102206						
A0102207 A0102208 A0102209 A0102210 A0102211						
A0102212 A0102213 A0102214 A0102215 A0102216						
A0102217 A0102218 A0102219 A0102220 A0102221		42	4.3	4.4	27	98.7
A0102222 A0102223 A0102224 A0102225 A0102226						
A0102227 A0102228 A0102229 A0102230 A0102231						
A0102232 A0102233 A0102234 A0102235 A0102236						

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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
A0102237		1.96	0.205													
A0102238		1.36	0.309													
A0102239		2.51	0.383	0.09	7.03	2.1	1050	1.23	0.30	2.37	0.09	34.9	9.6	24	0.30	15.1
A0102240		0.94	0.002													
A0102241		2.06	0.164													
A0102242		1.94	0.204													
A0102243		1.74	0.124													
A0102244		2.02	0.043													
A0102245		1.90	0.122													
A0102246		1.85	0.344													
A0102247		1.81	0.703													
A0102248		2.11	0.197													
A0102249		2.02	1.725													
A0102250		2.06	1.755													
A0102251		2.27	1.215													
A0102252		1.56	1.185													
A0102253		1.79	0.698													
A0102254		1.59	0.039													
A0102255		1.38	0.007													
A0102256		0.07	0.138													
A0102257		2.09	0.007													
A0102258		2.05	0.008													
A0102259		2.06	0.017	0.05	5.86	3.1	30	0.98	0.19	6.05	0.07	6.93	65.8	642	7.94	101.0
A0102260		2.11	0.431													
A0102261		1.54	0.004													
A0102262		1.22	0.027													
A0102263		2.14	0.029													
A0102264		2.15	0.017													
A0102265		2.11	0.060													
A0102266		2.10	0.083													
A0102267		2.39	0.402													
A0102268		2.20	0.082													
A0102269		1.42	0.015													
A0102270		1.29	0.322													
A0102271		1.35	0.130													
A0102272		2.08	0.243													
A0102273		<0.02	0.109													
A0102274		1.79	0.083													
A0102275		2.41	0.377													
A0102276		1.98	0.262													

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Sample Description	Method Analyte Units LOD	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10
A0102237 A0102238 A0102239 A0102240 A0102241		1.94	20.7	0.10	2.3	0.017	1.31	14.1	13.4	0.71	481	0.31	5.67	2.3	18.5	580
A0102242 A0102243 A0102244 A0102245 A0102246																
A0102247 A0102248 A0102249 A0102250 A0102251																
A0102252 A0102253 A0102254 A0102255 A0102256																
A0102257 A0102258 A0102259 A0102260 A0102261		8.45	12.20	0.09	0.9	0.051	1.11	2.6	172.0	7.92	1190	0.23	0.80	1.4	336	230
A0102262 A0102263 A0102264 A0102265 A0102266																
A0102267 A0102268 A0102269 A0102270 A0102271																
A0102272 A0102273 A0102274 A0102275 A0102276																

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Sample Description	Method Analyte Units LOD	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
A0102237 A0102238 A0102239 A0102240 A0102241		4.6	18.8	<0.002	0.58	0.87	3.8	1	0.4	1185	0.15	0.16	2.53	0.148	0.08	0.7
A0102242 A0102243 A0102244 A0102245 A0102246																
A0102247 A0102248 A0102249 A0102250 A0102251																
A0102252 A0102253 A0102254 A0102255 A0102256																
A0102257 A0102258 A0102259 A0102260 A0102261		2.3	66.1	<0.002	0.12	0.68	37.4	1	0.4	270	0.08	0.06	0.25	0.328	0.53	0.1
A0102262 A0102263 A0102264 A0102265 A0102266																
A0102267 A0102268 A0102269 A0102270 A0102271																
A0102272 A0102273 A0102274 A0102275 A0102276																

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Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
A0102237 A0102238 A0102239 A0102240 A0102241		34	11.1	5.1	21	80.9
A0102242 A0102243 A0102244 A0102245 A0102246						
A0102247 A0102248 A0102249 A0102250 A0102251						
A0102252 A0102253 A0102254 A0102255 A0102256						
A0102257 A0102258 A0102259 A0102260 A0102261		215	1.8	10.5	227	41.1
A0102262 A0102263 A0102264 A0102265 A0102266						
A0102267 A0102268 A0102269 A0102270 A0102271						
A0102272 A0102273 A0102274 A0102275 A0102276						

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Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
A0102277		1.71	0.373													
A0102278		1.55	0.480													
A0102279		1.63	0.347													
A0102280		1.94	1.135													
A0102281		1.61	0.081	0.11	5.23	4.0	50	2.94	0.24	9.24	0.17	19.15	47.2	719	18.30	69.4
A0102282		2.21	0.111													
A0102283		2.18	0.024													
A0102284		2.08	0.010													
A0102285		2.16	0.021													
A0102286		2.14	0.008													
A0102287		2.12	0.008													
A0102288		0.84	0.001													
A0102289		1.98	0.007													
A0102290		1.12	0.010													
A0102291		1.79	0.014													
A0102292		1.31	0.006													
A0102293		1.98	0.006													
A0102294		2.03	0.010													
A0102295		2.02	0.030													
A0102296		2.02	0.015													
A0102297		2.23	0.016													
A0102298		2.20	0.122													
A0102299		2.15	0.113													
A0102300		2.15	0.127													
A0102301		1.19	0.010													
A0102302		4.22	0.023													
A0102303		1.08	0.009													
A0102304		0.07	0.513													
A0102305		1.59	0.010													
A0102306		1.50	0.012													
A0102307		1.67	0.026													
A0102308		1.50	0.012													
A0102309		1.35	0.016													
A0102310		1.61	0.033													
A0102311		2.02	0.051													
A0102312		1.64	0.015													
A0102313		1.16	0.020													
A0102314		1.79	0.016													
A0102315		1.93	0.013													
A0102316		1.40	0.020													

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
A0102277																
A0102278																
A0102279																
A0102280																
A0102281		6.84	10.85	0.09	1.1	0.041	2.43	9.5	151.5	5.73	1720	1.78	2.93	1.5	294	240
A0102282																
A0102283																
A0102284																
A0102285																
A0102286																
A0102287																
A0102288																
A0102289																
A0102290																
A0102291																
A0102292																
A0102293																
A0102294																
A0102295																
A0102296																
A0102297																
A0102298																
A0102299																
A0102300																
A0102301																
A0102302																
A0102303																
A0102304																
A0102305																
A0102306																
A0102307																
A0102308																
A0102309																
A0102310																
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A0102312																
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Project: DOUAY

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Sample Description	Method Analyte Units LOD	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
A0102277																
A0102278																
A0102279																
A0102280																
A0102281		4.4	131.5	0.002	0.24	0.70	33.3	1	0.4	429	0.07	0.15	0.49	0.305	0.91	0.2
A0102282																
A0102283																
A0102284																
A0102285																
A0102286																
A0102287																
A0102288																
A0102289																
A0102290																
A0102291																
A0102292																
A0102293																
A0102294																
A0102295																
A0102296																
A0102297																
A0102298																
A0102299																
A0102300																
A0102301																
A0102302																
A0102303																
A0102304																
A0102305																
A0102306																
A0102307																
A0102308																
A0102309																
A0102310																
A0102311																
A0102312																
A0102313																
A0102314																
A0102315																
A0102316																

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 24-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20069218

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
A0102277						
A0102278						
A0102279						
A0102280						
A0102281		192	6.3	12.3	231	33.1
A0102282						
A0102283						
A0102284						
A0102285						
A0102286						
A0102287						
A0102288						
A0102289						
A0102290						
A0102291						
A0102292						
A0102293						
A0102294						
A0102295						
A0102296						
A0102297						
A0102298						
A0102299						
A0102300						
A0102301						
A0102302						
A0102303						
A0102304						
A0102305						
A0102306						
A0102307						
A0102308						
A0102309						
A0102310						
A0102311						
A0102312						
A0102313						
A0102314						
A0102315						
A0102316						

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CERTIFICATE OF ANALYSIS VO20069218

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
A0102317		1.09	0.016													
A0102318		1.41	0.013													
A0102319		1.57	0.010													
A0102320		0.69	0.014	0.19	6.59	4.5	280	3.48	0.75	7.94	0.06	48.6	35.0	43	5.49	114.5
A0102321		0.73	0.015													
A0102322		1.60	0.044													
A0102323		2.12	0.010													
A0102324		1.85	0.006													
A0102325		1.52	0.009													
A0102326		1.91	0.010													
A0102327		1.30	0.006													
A0102328		1.68	0.035													
A0102329		2.16	0.015													
A0102330		2.29	0.012													
A0102331		2.20	0.026													
A0102332		1.48	0.029													
A0102333		1.80	0.023													
A0102334		1.90	0.034													
A0102335		1.48	0.034													
A0102336		0.94	0.003													
A0102337		1.41	0.049													
A0102338		1.97	0.035													
A0102339		1.83	0.056													
A0102340		1.64	0.029	0.34	6.98	4.8	200	2.16	0.81	9.71	0.31	248	32.2	85	3.98	112.0
A0102341		2.12	0.072													
A0102342		1.18	0.013													
A0102343		1.60	0.004													
A0102344		1.62	0.007													
A0102345		1.45	0.014													
A0102346		1.40	0.014													
A0102347		1.41	0.001													

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Finalized Date: 24-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20069218

Sample Description	Method Analyte Units LOD	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10
A0102317 A0102318 A0102319 A0102320 A0102321		8.00	15.85	0.11	2.2	0.033	1.64	24.2	224	1.42	1860	10.90	4.49	5.0	45.8	480
A0102322 A0102323 A0102324 A0102325 A0102326																
A0102327 A0102328 A0102329 A0102330 A0102331																
A0102332 A0102333 A0102334 A0102335 A0102336																
A0102337 A0102338 A0102339 A0102340 A0102341		7.65	19.95	0.22	2.3	0.076	0.94	171.5	149.5	2.26	2200	3.35	3.41	11.0	63.6	660
A0102342 A0102343 A0102344 A0102345 A0102346																
A0102347																

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CERTIFICATE OF ANALYSIS VO20069218

Sample Description	Method Analyte Units LOD	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
A0102317 A0102318 A0102319 A0102320 A0102321		19.4	109.0	0.011	0.83	0.35	24.3	1	2.2	393	0.22	0.08	1.97	0.475	0.46	0.7
A0102322 A0102323 A0102324 A0102325 A0102326																
A0102327 A0102328 A0102329 A0102330 A0102331																
A0102332 A0102333 A0102334 A0102335 A0102336																
A0102337 A0102338 A0102339 A0102340 A0102341		33.1	68.3	0.004	0.24	0.59	43.0	1	0.9	2300	0.27	0.05	4.37	0.931	0.28	1.3
A0102342 A0102343 A0102344 A0102345 A0102346																
A0102347																

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Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
A0102317 A0102318 A0102319 A0102320 A0102321		169	5.3	27.0	112	73.8
A0102322 A0102323 A0102324 A0102325 A0102326						
A0102327 A0102328 A0102329 A0102330 A0102331						
A0102332 A0102333 A0102334 A0102335 A0102336						
A0102337 A0102338 A0102339 A0102340 A0102341		316	2.5	34.4	148	80.8
A0102342 A0102343 A0102344 A0102345 A0102346						
A0102347						

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Finalized Date: 24-APR-2020
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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20069218

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

Applies to Method:				
CRU-31	CRU-QC	LOG-21	LOG-21d	
LOG-23	PUL-31	PUL-31d	PUL-QC	
SPL-21	SPL-21d	WEI-21		

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:			
Au-ICP21	ME-MS61		

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Finalized Date: 23-APR-2020
Account: VISAU

CERTIFICATE VO20069221

Project: DOUAY

P.O. No.: Shipment MGM2004

This report is for 150 Drill Core samples submitted to our lab in Val d'Or, QC, Canada on 24-MAR-2020.

The following have access to data associated with this certificate:

WEBTRIEVE (AURVISTA) ACCESS EVEN STAVRE	VIVIAN PARK	FRED SPEIDEL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SPL-21d	Split sample - duplicate
LOG-21d	Sample logging - ClientBarCode Dup
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
PUL-31d	Pulverize Split - duplicate
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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CERTIFICATE OF ANALYSIS VO20069221

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
A0102348		1.15	0.005													
A0102349		1.19	0.009													
A0102350		1.85	0.026													
A0102351		1.75	0.012													
A0102352		0.07	3.05													
A0102353		1.53	0.007													
A0102354		1.69	0.002													
A0102355		1.26	0.007													
A0102356		1.22	0.012													
A0102357		1.59	0.004													
A0102358		1.95	0.023													
A0102359		1.73	0.002													
A0102360		1.62	0.010	0.22	7.31	3.9	310	1.67	0.10	7.66	0.20	87.9	56.7	112	6.68	282
A0102361		2.13	0.044													
A0102362		1.49	0.019													
A0102363		1.77	0.017													
A0102364		1.23	0.008													
A0102365		2.00	0.015													
A0102366		1.41	0.012													
A0102367		1.85	0.009													
A0102368		1.47	0.023													
A0102369		<0.02	0.036													
A0102370		1.65	0.010													
A0102371		2.49	0.017													
A0102372		1.51	0.026													
A0102373		1.84	0.012													
A0102374		1.58	0.006													
A0102375		1.57	0.021													
A0102376		2.04	0.047													
A0102377		2.18	0.022													
A0102378		2.17	0.019													
A0102379		1.98	0.010													
A0102380		2.02	0.032													
A0102381		2.09	0.012	0.04	7.35	4.9	200	1.39	0.08	8.78	0.11	25.1	42.5	68	2.40	41.9
A0102382		1.94	0.013													
A0102383		2.33	0.014													
A0102384		0.75	0.004													
A0102385		2.11	0.029													
A0102386		2.39	0.019													
A0102387		2.56	0.031													

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Finalized Date: 23-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20069221

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
A0102348 A0102349 A0102350 A0102351 A0102352																
A0102353 A0102354 A0102355 A0102356 A0102357																
A0102358 A0102359 A0102360 A0102361 A0102362		8.49	15.25	0.14	1.3	0.065	1.74	45.1	150.0	3.09	1780	2.57	3.52	3.3	103.0	300
A0102363 A0102364 A0102365 A0102366 A0102367																
A0102368 A0102369 A0102370 A0102371 A0102372																
A0102373 A0102374 A0102375 A0102376 A0102377																
A0102378 A0102379 A0102380 A0102381 A0102382		8.93	16.45	0.09	1.6	0.059	0.78	11.7	58.6	3.90	2010	1.19	2.65	2.8	48.5	360
A0102383 A0102384 A0102385 A0102386 A0102387																

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CERTIFICATE OF ANALYSIS VO20069221

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
A0102348 A0102349 A0102350 A0102351 A0102352																
A0102353 A0102354 A0102355 A0102356 A0102357																
A0102358 A0102359 A0102360 A0102361 A0102362		8.1	68.8	0.002	0.29	0.34	40.8	1	0.5	794	0.12	<0.05	2.44	0.467	0.46	0.6
A0102363 A0102364 A0102365 A0102366 A0102367																
A0102368 A0102369 A0102370 A0102371 A0102372																
A0102373 A0102374 A0102375 A0102376 A0102377																
A0102378 A0102379 A0102380 A0102381 A0102382		10.7	30.9	0.003	0.20	0.58	43.5	1	0.5	1200	0.15	<0.05	0.66	0.553	0.16	0.3
A0102383 A0102384 A0102385 A0102386 A0102387																

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CERTIFICATE OF ANALYSIS VO20069221

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
A0102348 A0102349 A0102350 A0102351 A0102352						
A0102353 A0102354 A0102355 A0102356 A0102357						
A0102358 A0102359 A0102360 A0102361 A0102362		232	0.9	21.6	173	46.4
A0102363 A0102364 A0102365 A0102366 A0102367						
A0102368 A0102369 A0102370 A0102371 A0102372						
A0102373 A0102374 A0102375 A0102376 A0102377						
A0102378 A0102379 A0102380 A0102381 A0102382		268	0.8	22.3	155	53.2
A0102383 A0102384 A0102385 A0102386 A0102387						

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Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
A0102388		2.26	0.016													
A0102389		2.06	0.024													
A0102390		0.97	0.006													
A0102391		1.51	<0.001													
A0102392		1.33	0.005													
A0102393		2.69	0.041													
A0102394		2.24	0.009													
A0102395		2.27	0.014													
A0102396		2.08	0.010													
A0102397		2.22	0.010													
A0102398		2.53	0.030													
A0102399		2.20	0.003	0.10	8.61	3.2	100	2.75	0.15	6.18	0.04	129.0	27.9	59	0.31	115.5
A0102400		0.07	0.144													
A0102401		2.19	0.002													
A0102402		2.54	0.004													
A0102403		1.18	0.009													
A0102404		1.30	0.005													
A0102405		1.94	0.011													
A0102406		2.39	0.038													
A0102407		2.36	0.008													
A0102408		0.07	0.506													
A0102409		2.74	0.010													
A0102410		2.49	0.023													
A0102411		2.40	0.024													
A0102412		2.51	0.015													
A0102413		2.49	0.012													
A0102414		2.29	0.012													
A0102415		2.35	0.024													
A0102416		1.95	0.033													
A0102417		2.27	0.017													
A0102418		1.97	0.011													
A0102419		1.75	0.015													
A0102420		1.62	0.010													
A0102421		1.39	0.007	0.04	7.77	4.5	100	0.72	0.11	9.89	0.10	51.6	43.3	66	3.08	140.0
A0102422		2.36	0.010													
A0102423		2.48	0.007													
A0102424		1.06	0.008													
V472269		1.20	0.001													
V472270		1.13	0.007													
V472271		2.40	0.001													

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 23-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20069221

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
A0102388 A0102389 A0102390 A0102391 A0102392																
A0102393 A0102394 A0102395 A0102396 A0102397																
A0102398 A0102399 A0102400 A0102401 A0102402		5.84	20.0	0.18	3.6	0.049	0.35	55.5	31.2	2.31	1280	2.53	4.60	12.9	30.4	1500
A0102403 A0102404 A0102405 A0102406 A0102407																
A0102408 A0102409 A0102410 A0102411 A0102412																
A0102413 A0102414 A0102415 A0102416 A0102417																
A0102418 A0102419 A0102420 A0102421 A0102422		8.88	17.40	0.11	1.7	0.072	0.88	29.9	77.9	3.18	2060	2.13	2.55	3.3	54.7	360
A0102423 A0102424 V472269 V472270 V472271																

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CERTIFICATE OF ANALYSIS VO20069221

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
A0102388 A0102389 A0102390 A0102391 A0102392																
A0102393 A0102394 A0102395 A0102396 A0102397																
A0102398 A0102399 A0102400 A0102401 A0102402		5.8	6.1	<0.002	0.89	0.34	15.1	2	0.8	885	0.39	0.10	7.27	0.431	0.04	2.0
A0102403 A0102404 A0102405 A0102406 A0102407																
A0102408 A0102409 A0102410 A0102411 A0102412																
A0102413 A0102414 A0102415 A0102416 A0102417																
A0102418 A0102419 A0102420 A0102421 A0102422		9.7	42.1	0.002	0.36	0.69	46.8	1	0.5	850	0.15	<0.05	0.87	0.601	0.26	0.4
A0102423 A0102424 V472269 V472270 V472271																

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CERTIFICATE OF ANALYSIS VO20069221

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
A0102388 A0102389 A0102390 A0102391 A0102392						
A0102393 A0102394 A0102395 A0102396 A0102397						
A0102398 A0102399 A0102400 A0102401 A0102402		150	1.1	18.1	84	157.0
A0102403 A0102404 A0102405 A0102406 A0102407						
A0102408 A0102409 A0102410 A0102411 A0102412						
A0102413 A0102414 A0102415 A0102416 A0102417						
A0102418 A0102419 A0102420 A0102421 A0102422		288	1.3	23.5	154	55.3
A0102423 A0102424 V472269 V472270 V472271						

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CERTIFICATE OF ANALYSIS VO20069221

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
V472272		2.41	<0.001													
V472273		<0.02	<0.001													
V472274		2.47	0.002													
V472275		2.30	<0.001													
V472276		2.31	<0.001													
V472277		2.15	<0.001													
V472278		2.13	<0.001													
V472279		2.31	<0.001													
V472280		2.26	0.001													
V472281		2.39	0.001													
V472282		2.18	<0.001													
V472283		2.48	0.001	0.05	7.52	9.2	730	1.76	0.15	2.34	0.06	100.5	12.0	39	4.53	19.0
V472284		2.56	0.002													
V472285		2.35	0.001													
V472286		1.47	0.001													
V472287		1.06	<0.001													
V472288		0.77	0.002													
V472289		2.42	<0.001													
V472290		2.38	<0.001													
V472291		2.21	0.002													
V472292		2.38	0.005													
V472293		2.34	0.002													
V472294		2.48	<0.001													
V472295		2.49	0.002													
V472296		2.44	0.002													
V472297		2.62	0.001													
V472298		2.45	0.001													
V472299		2.34	0.001													
V472300		2.79	0.002													
V472301		2.44	0.002	0.05	6.01	12.4	770	1.26	0.09	5.92	0.09	92.3	35.2	207	5.91	57.4
V472302		2.38	0.004													
V472303		2.29	0.003													
V472304		0.07	0.506													
V472305		2.24	0.002													
V472306		2.30	0.001													
V472307		2.32	0.004													
V472308		2.34	0.004													
V472309		2.38	0.001													
V472310		2.25	0.003													
V472311		2.33	0.004													

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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20069221

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V472272																
V472273																
V472274																
V472275																
V472276																
V472277																
V472278																
V472279																
V472280																
V472281																
V472282																
V472283		2.59	21.8	0.16	3.6	0.026	3.15	40.2	14.0	0.73	465	1.14	2.77	4.9	29.0	1000
V472284																
V472285																
V472286																
V472287																
V472288																
V472289																
V472290																
V472291																
V472292																
V472293																
V472294																
V472295																
V472296																
V472297																
V472298																
V472299																
V472300																
V472301		7.09	18.35	0.18	3.2	0.062	2.94	38.8	10.1	2.55	871	0.73	0.80	1.6	153.0	1200
V472302																
V472303																
V472304																
V472305																
V472306																
V472307																
V472308																
V472309																
V472310																
V472311																

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CERTIFICATE OF ANALYSIS VO20069221

Sample Description	Method Analyte Units LOD	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
V472272																
V472273																
V472274																
V472275																
V472276																
V472277																
V472278																
V472279																
V472280																
V472281																
V472282																
V472283		14.3	75.9	<0.002	0.18	0.41	5.4	1	0.7	948	0.24	<0.05	7.51	0.217	0.38	1.8
V472284																
V472285																
V472286																
V472287																
V472288																
V472289																
V472290																
V472291																
V472292																
V472293																
V472294																
V472295																
V472296																
V472297																
V472298																
V472299																
V472300																
V472301		6.0	106.0	<0.002	0.36	1.37	15.2	1	0.8	2180	0.08	0.05	5.40	0.456	0.50	1.0
V472302																
V472303																
V472304																
V472305																
V472306																
V472307																
V472308																
V472309																
V472310																
V472311																

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CERTIFICATE OF ANALYSIS VO20069221

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V472272						
V472273						
V472274						
V472275						
V472276						
V472277						
V472278						
V472279						
V472280						
V472281						
V472282						
V472283		60	0.7	11.0	66	138.5
V472284						
V472285						
V472286						
V472287						
V472288						
V472289						
V472290						
V472291						
V472292						
V472293						
V472294						
V472295						
V472296						
V472297						
V472298						
V472299						
V472300						
V472301		141	0.3	13.2	121	114.0
V472302						
V472303						
V472304						
V472305						
V472306						
V472307						
V472308						
V472309						
V472310						
V472311						

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CERTIFICATE OF ANALYSIS VO20069221

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V472312		2.22	0.002													
V472313		2.08	<0.001													
V472314		1.67	<0.001													
V472315		2.24	0.009													
V472316		1.90	0.019	0.68	5.25	26.8	2120	1.60	0.28	15.90	0.46	>500	9.8	20	4.47	12.5
V472317		1.48	0.021													
V472318		1.50	0.005													
V472319		2.12	0.027													
V472320		0.99	<0.001													
V472321		0.92	0.006													
V472322		2.25	0.011													
V472323		2.15	0.003													
V472324		2.09	0.006													
V472325		2.05	<0.001													
V472326		2.19	<0.001													
V472327		2.17	0.001													
V472328		2.26	<0.001													
V472329		2.34	<0.001													
V472330		2.34	0.001													
V472331		2.27	<0.001	0.10	7.24	10.3	800	1.91	0.16	2.83	0.06	95.8	9.5	35	3.97	16.6
V472332		2.22	0.002													
V472333		2.39	<0.001													
V472334		2.41	<0.001													
V472335		1.82	0.001													
V472336		0.79	0.002													
V472337		2.64	<0.001													
V472338		2.27	<0.001													
V472339		2.17	<0.001													
V472340		2.42	<0.001													
V472341		2.24	<0.001													

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CERTIFICATE OF ANALYSIS VO20069221

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V472312																
V472313																
V472314																
V472315																
V472316		2.78	19.05	0.72	2.9	0.029	3.08	400	75.5	1.00	1740	17.60	1.14	30.9	17.9	9600
V472317																
V472318																
V472319																
V472320																
V472321																
V472322																
V472323																
V472324																
V472325																
V472326																
V472327																
V472328																
V472329																
V472330																
V472331		2.72	21.2	0.14	3.5	0.026	2.53	38.6	21.5	0.85	469	0.80	3.37	5.4	24.3	1040
V472332																
V472333																
V472334																
V472335																
V472336																
V472337																
V472338																
V472339																
V472340																
V472341																

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Sample Description	Method Analyte Units LOD	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
V472312																
V472313																
V472314																
V472315																
V472316		88.2	88.4	0.002	1.04	5.03	4.3	2	0.6	6280	0.41	0.15	19.30	0.151	0.51	10.3
V472317																
V472318																
V472319																
V472320																
V472321																
V472322																
V472323																
V472324																
V472325																
V472326																
V472327																
V472328																
V472329																
V472330																
V472331		16.5	56.7	<0.002	0.33	1.84	4.9	<1	0.7	1005	0.19	0.06	7.12	0.183	0.39	1.8
V472332																
V472333																
V472334																
V472335																
V472336																
V472337																
V472338																
V472339																
V472340																
V472341																

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Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V472312						
V472313						
V472314						
V472315						
V472316		263	2.7	42.9	130	162.5
V472317						
V472318						
V472319						
V472320						
V472321						
V472322						
V472323						
V472324						
V472325						
V472326						
V472327						
V472328						
V472329						
V472330						
V472331		64	0.9	10.5	73	141.5
V472332						
V472333						
V472334						
V472335						
V472336						
V472337						
V472338						
V472339						
V472340						
V472341						

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 23-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20069221

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

Applies to Method:				
CRU-31	CRU-QC	LOG-21	LOG-21d
LOG-23	PUL-31	PUL-31d	PUL-QC
SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:	
Au-ICP21	ME-MS61

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TORONTO ON M5H 3W4

Finalized Date: 24-APR-2020
Account: VISAU

CERTIFICATE VO20069226

Project: DOUAY

P.O. No.: Shipment MGM2004

This report is for 150 Drill Core samples submitted to our lab in Val d'Or, QC, Canada on 24-MAR-2020.

The following have access to data associated with this certificate:

WEBTRIEVE (AURVISTA) ACCESS EVEN STAVRE	VIVIAN PARK	FRED SPEIDEL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SPL-21d	Split sample - duplicate
LOG-21d	Sample logging - ClientBarCode Dup
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
PUL-31d	Pulverize Split - duplicate
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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CERTIFICATE OF ANALYSIS VO20069226

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V472342		2.15	0.001													
V472343		2.54	<0.001													
V472344		2.36	0.001													
V472345		2.25	0.001													
V472346		2.22	0.001	0.06	8.22	5.9	630	2.10	0.23	2.20	0.06	86.5	12.6	40	7.42	13.7
V472347		2.39	<0.001													
V472348		2.48	0.004													
V472349		2.42	<0.001													
V472350		2.47	0.001													
V472351		2.69	0.001													
V472352		0.07	2.98													
V472353		2.31	0.003													
V472354		2.38	0.002													
V472355		2.29	0.001													
V472356		2.57	0.001													
V472357		2.09	0.002													
V472358		2.38	<0.001													
V472359		2.39	0.002													
V472360		2.29	0.001													
V472361		2.40	0.003	0.08	7.50	5.7	910	1.93	0.46	3.07	0.08	102.0	13.9	30	6.51	13.4
V472362		2.30	<0.001													
V472363		2.21	0.001													
V472364		2.39	<0.001													
V472365		2.49	<0.001													
V472366		2.23	0.002													
V472367		2.31	0.002													
V472368		2.37	0.001													
V472369		<0.02	0.001													
V472370		2.45	<0.001													
V472371		2.35	0.005													
V472372		2.21	0.011													
V472373		2.28	0.010													
V472374		2.36	0.012													
V472375		2.72	0.013													
V472376		2.37	0.018	0.05	7.12	8.1	1830	1.94	0.12	4.58	0.07	102.0	12.9	62	7.45	22.4
V472377		2.43	0.009													
V472378		2.62	0.008													
V472379		2.07	0.005													
V472380		2.38	0.008													
V472381		2.42	0.005													

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Finalized Date: 24-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20069226

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V472342																
V472343																
V472344																
V472345																
V472346		2.40	23.5	0.15	4.1	0.031	3.77	37.7	13.5	0.78	310	0.71	1.60	3.8	45.7	890
V472347																
V472348																
V472349																
V472350																
V472351																
V472352																
V472353																
V472354																
V472355																
V472356																
V472357																
V472358																
V472359																
V472360																
V472361		2.94	20.8	0.17	3.3	0.024	2.61	45.8	10.3	0.83	504	2.71	2.33	3.4	25.6	870
V472362																
V472363																
V472364																
V472365																
V472366																
V472367																
V472368																
V472369																
V472370																
V472371																
V472372																
V472373																
V472374																
V472375																
V472376		2.98	17.45	0.20	3.1	0.026	2.87	46.6	14.9	1.56	580	0.76	1.12	3.2	55.8	1250
V472377																
V472378																
V472379																
V472380																
V472381																

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CERTIFICATE OF ANALYSIS VO20069226

Sample Description	Method Analyte Units LOD	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
V472342 V472343 V472344 V472345 V472346		18.0	86.8	<0.002	0.03	0.82	5.4	<1	0.7	492	0.19	<0.05	6.24	0.211	0.75	1.6
V472347 V472348 V472349 V472350 V472351																
V472352 V472353 V472354 V472355 V472356																
V472357 V472358 V472359 V472360 V472361		23.8	63.1	<0.002	0.38	0.40	4.9	<1	0.6	1580	0.17	0.06	7.60	0.146	0.56	2.2
V472362 V472363 V472364 V472365 V472366																
V472367 V472368 V472369 V472370 V472371																
V472372 V472373 V472374 V472375 V472376		12.1	79.6	0.002	0.33	0.72	7.0	<1	0.6	5630	0.16	<0.05	5.67	0.190	0.52	1.3
V472377 V472378 V472379 V472380 V472381																

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CERTIFICATE OF ANALYSIS VO20069226

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V472342						
V472343						
V472344						
V472345						
V472346		60	0.6	9.1	75	148.5
V472347						
V472348						
V472349						
V472350						
V472351						
V472352						
V472353						
V472354						
V472355						
V472356						
V472357						
V472358						
V472359						
V472360						
V472361		55	0.3	10.0	83	121.5
V472362						
V472363						
V472364						
V472365						
V472366						
V472367						
V472368						
V472369						
V472370						
V472371						
V472372						
V472373						
V472374						
V472375						
V472376		65	0.8	11.7	72	117.5
V472377						
V472378						
V472379						
V472380						
V472381						

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CERTIFICATE OF ANALYSIS VO20069226

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V472382		2.32	0.008													
V472383		2.31	0.007													
V472384		0.84	0.003													
V472385		2.26	0.008													
V472386		2.25	0.001													
V472387		2.27	0.001													
V472388		2.32	<0.001													
V472389		2.21	0.001													
V472390		2.18	<0.001													
V472391		2.33	<0.001	0.04	7.78	18.9	880	2.43	0.11	3.23	0.07	101.0	28.7	123	7.93	58.7
V472392		2.24	0.002													
V472393		2.25	0.001													
V472394		2.18	<0.001													
V472395		2.17	0.002													
V472396		2.17	<0.001													
V472397		1.98	<0.001													
V472398		2.01	<0.001													
V472399		2.01	<0.001													
V472400		0.07	0.143													
V472401		1.98	<0.001													
V472402		2.07	0.001													
V472403		2.15	<0.001													
V472404		2.33	<0.001													
V472405		2.29	<0.001													
V472406		2.16	<0.001	0.03	6.62	7.9	760	1.50	0.05	2.77	0.05	57.3	8.7	31	6.40	16.7
V472407		2.34	<0.001													
V472408		0.07	0.514													
V472409		2.23	<0.001													
V472410		2.28	<0.001													
V472411		2.42	<0.001													
V472412		2.15	<0.001													
V472413		2.17	<0.001													
V472414		2.22	<0.001													
V472415		2.38	<0.001													
V472416		2.29	<0.001													
V472417		2.51	<0.001													
V472418		2.32	<0.001													
V472419		2.33	<0.001													
V472420		2.04	<0.001													
V472421		2.18	<0.001	0.17	7.34	7.4	770	1.89	0.26	2.73	0.05	66.7	13.6	55	7.72	29.7

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CERTIFICATE OF ANALYSIS VO20069226

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V472382																
V472383																
V472384																
V472385																
V472386																
V472387																
V472388																
V472389																
V472390																
V472391		4.46	21.8	0.18	5.3	0.037	2.84	41.0	11.0	0.69	803	0.66	2.32	5.6	106.0	2050
V472392																
V472393																
V472394																
V472395																
V472396																
V472397																
V472398																
V472399																
V472400																
V472401																
V472402																
V472403																
V472404																
V472405																
V472406		2.66	19.60	0.13	2.8	0.024	2.34	24.9	5.3	0.16	517	0.75	2.54	3.7	27.1	780
V472407																
V472408																
V472409																
V472410																
V472411																
V472412																
V472413																
V472414																
V472415																
V472416																
V472417																
V472418																
V472419																
V472420																
V472421		2.85	21.5	0.13	3.4	0.025	2.50	29.4	10.5	0.22	476	0.69	2.28	2.7	35.2	770

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CERTIFICATE OF ANALYSIS VO20069226

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V472382																
V472383																
V472384																
V472385																
V472386																
V472387																
V472388																
V472389																
V472390																
V472391		8.1	73.7	0.002	0.04	1.22	10.3	1	0.8	876	0.29	<0.05	6.64	0.314	0.52	1.7
V472392																
V472393																
V472394																
V472395																
V472396																
V472397																
V472398																
V472399																
V472400																
V472401																
V472402																
V472403																
V472404																
V472405																
V472406		10.3	57.1	0.002	0.03	0.96	4.3	<1	0.6	928	0.22	<0.05	4.52	0.203	0.37	1.1
V472407																
V472408																
V472409																
V472410																
V472411																
V472412																
V472413																
V472414																
V472415																
V472416																
V472417																
V472418																
V472419																
V472420																
V472421		30.3	64.1	<0.002	0.04	0.89	5.8	<1	0.6	856	0.17	<0.05	5.43	0.153	0.42	1.5

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Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V472382						
V472383						
V472384						
V472385						
V472386						
V472387						
V472388						
V472389						
V472390						
V472391		95	0.4	14.5	84	210
V472392						
V472393						
V472394						
V472395						
V472396						
V472397						
V472398						
V472399						
V472400						
V472401						
V472402						
V472403						
V472404						
V472405						
V472406		50	0.4	6.1	64	97.5
V472407						
V472408						
V472409						
V472410						
V472411						
V472412						
V472413						
V472414						
V472415						
V472416						
V472417						
V472418						
V472419						
V472420						
V472421		61	0.3	7.4	62	121.5

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CERTIFICATE OF ANALYSIS VO20069226

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V472422		2.30	0.001													
V472423		2.42	<0.001													
V472424		1.10	<0.001													
V472425		0.93	<0.001													
V472426		2.17	<0.001													
V472427		2.03	<0.001													
V472428		2.12	<0.001													
V472429		2.18	<0.001													
V472430		2.11	<0.001													
V472431		2.06	<0.001													
V472432		2.15	<0.001													
V472433		1.99	0.001													
V472434		2.14	<0.001													
V472435		2.14	<0.001													
V472436		2.25	0.001	0.14	7.03	38.8	950	1.76	0.14	2.85	0.05	87.4	16.7	164	10.10	119.5
V472437		2.07	0.003													
V472438		2.20	0.009													
V472439		2.36	<0.001													
V472440		0.75	<0.001													
V472441		2.29	<0.001													
V472442		2.29	0.002													
V472443		2.13	0.001													
V472444		2.16	<0.001													
V472445		1.90	<0.001													
V472446		2.22	<0.001													
V472447		2.61	<0.001													
V472448		1.98	<0.001													
V472449		2.14	0.002													
V472450		1.48	<0.001													
V472451		2.93	0.001	0.13	7.77	10.9	950	2.52	0.22	3.83	0.13	120.5	24.6	15	8.56	25.9
V472452		2.14	<0.001													
V472453		1.91	0.002													
V472454		1.81	0.003													
V472455		1.99	0.007													
V472456		0.07	2.99													
V472457		2.19	0.004													
V472458		2.10	0.003													
V472459		2.39	<0.001													
V472460		2.20	0.059													
V472461		2.44	0.029													

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 24-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20069226

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V472422																
V472423																
V472424																
V472425																
V472426																
V472427																
V472428																
V472429																
V472430																
V472431																
V472432																
V472433																
V472434																
V472435																
V472436		3.09	19.05	0.16	3.4	0.029	2.66	38.8	25.3	0.93	509	2.49	1.18	2.8	91.7	1060
V472437																
V472438																
V472439																
V472440																
V472441																
V472442																
V472443																
V472444																
V472445																
V472446																
V472447																
V472448																
V472449																
V472450																
V472451		5.47	21.9	0.25	4.5	0.048	3.00	50.3	15.9	0.86	873	3.72	1.52	3.9	21.7	1710
V472452																
V472453																
V472454																
V472455																
V472456																
V472457																
V472458																
V472459																
V472460																
V472461																

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CERTIFICATE OF ANALYSIS VO20069226

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V472422																
V472423																
V472424																
V472425																
V472426																
V472427																
V472428																
V472429																
V472430																
V472431																
V472432																
V472433																
V472434																
V472435																
V472436		9.1	71.4	<0.002	0.07	4.66	8.6	<1	0.6	1850	0.16	<0.05	5.71	0.210	0.50	1.4
V472437																
V472438																
V472439																
V472440																
V472441																
V472442																
V472443																
V472444																
V472445																
V472446																
V472447																
V472448																
V472449																
V472450																
V472451		32.8	83.0	0.002	0.40	0.86	8.6	1	0.8	1005	0.16	<0.05	5.52	0.324	0.58	2.3
V472452																
V472453																
V472454																
V472455																
V472456																
V472457																
V472458																
V472459																
V472460																
V472461																

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CERTIFICATE OF ANALYSIS VO20069226

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5
V472422						
V472423						
V472424						
V472425						
V472426						
V472427						
V472428						
V472429						
V472430						
V472431						
V472432						
V472433						
V472434						
V472435						
V472436		80	0.3	10.8	84	128.5
V472437						
V472438						
V472439						
V472440						
V472441						
V472442						
V472443						
V472444						
V472445						
V472446						
V472447						
V472448						
V472449						
V472450						
V472451		112	0.5	17.7	138	183.5
V472452						
V472453						
V472454						
V472455						
V472456						
V472457						
V472458						
V472459						
V472460						
V472461						

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Finalized Date: 24-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20069226

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V472462		1.92	0.001													
V472463		2.10	0.024													
V472464		2.15	<0.001													
V472465		2.24	0.001													
V472466		2.23	0.002													
V472467		2.09	0.007													
V472468		1.98	<0.001	0.10	6.56	98.2	90	5.05	0.03	12.45	0.11	439	24.5	64	5.00	148.0
V472469		2.26	0.005													
V472470		2.01	0.001													
V472471		2.12	0.004													
V472472		2.17	<0.001													
V472473		<0.02	<0.001													
V472474		1.96	0.002													
V472475		2.04	<0.001													
V472476		1.94	<0.001													
V472477		1.97	<0.001													
V472478		2.27	<0.001													
V472479		2.10	0.001													
V472480		1.94	0.017													
V472481		1.97	0.122													
V472482		2.21	0.138	1.48	4.27	146.0	270	4.52	0.53	15.40	0.37	>500	25.6	28	39.5	176.0
V472483		2.07	0.016													
V472484		1.70	<0.001													
V472485		2.49	0.001													
V472486		2.26	0.005													
V472487		2.12	0.002													
V472488		1.02	<0.001													
V472489		2.29	0.002													
V472490		1.86	<0.001													
V472491		1.96	0.004													

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www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 24-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20069226

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V472462																
V472463																
V472464																
V472465																
V472466																
V472467																
V472468		5.50	22.3	0.54	1.8	0.046	1.92	152.0	58.9	3.60	2090	0.07	1.40	3.7	31.8	>10000
V472469																
V472470																
V472471																
V472472																
V472473																
V472474																
V472475																
V472476																
V472477																
V472478																
V472479																
V472480																
V472481																
V472482		5.24	18.80	1.29	4.7	0.037	4.05	271	89.8	2.00	1420	157.5	0.58	36.6	22.4	>10000
V472483																
V472484																
V472485																
V472486																
V472487																
V472488																
V472489																
V472490																
V472491																

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CERTIFICATE OF ANALYSIS VO20069226

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V472462																
V472463																
V472464																
V472465																
V472466																
V472467																
V472468		5.9	84.9	0.002	0.43	4.89	4.8	1	0.2	1495	0.32	<0.05	24.4	0.079	0.23	2.8
V472469																
V472470																
V472471																
V472472																
V472473																
V472474																
V472475																
V472476																
V472477																
V472478																
V472479																
V472480																
V472481																
V472482		67.5	245	0.010	2.82	3.98	5.8	<1	0.7	1840	2.35	0.82	224	0.275	1.20	5.4
V472483																
V472484																
V472485																
V472486																
V472487																
V472488																
V472489																
V472490																
V472491																

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Finalized Date: 24-APR-2020
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CERTIFICATE OF ANALYSIS VO20069226

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V472462						
V472463						
V472464						
V472465						
V472466						
V472467						
V472468		160	0.1	12.0	76	77.4
V472469						
V472470						
V472471						
V472472						
V472473						
V472474						
V472475						
V472476						
V472477						
V472478						
V472479						
V472480						
V472481						
V472482		159	7.6	161.0	85	238
V472483						
V472484						
V472485						
V472486						
V472487						
V472488						
V472489						
V472490						
V472491						

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Finalized Date: 24-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20069226

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

Applies to Method:				
CRU-31	CRU-QC	LOG-21	LOG-21d
LOG-23	PUL-31	PUL-31d	PUL-QC
SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:	
Au-ICP21	ME-MS61

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Finalized Date: 24-APR-2020
Account: VISAU

CERTIFICATE VO20069229

Project: DOUAY

P.O. No.: Shipment MGM2004

This report is for 150 Drill Core samples submitted to our lab in Val d'Or, QC, Canada on 24-MAR-2020.

The following have access to data associated with this certificate:

WEBTRIEVE (AURVISTA) ACCESS EVEN STAVRE	VIVIAN PARK	FRED SPEIDEL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SPL-21d	Split sample - duplicate
LOG-21d	Sample logging - ClientBarCode Dup
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
PUL-31d	Pulverize Split - duplicate
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20069229

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
V472492		2.26	0.012													
V472493		2.01	0.005													
V472494		1.92	0.007													
V472495		2.38	0.003													
V472496		2.23	0.006													
V472497		2.08	0.007	0.10	6.91	25.7	490	4.38	0.24	10.60	0.12	380	13.6	57	24.9	60.9
V472498		2.23	0.043													
V472499		2.28	0.317													
V472500		2.06	0.017													
V472501		2.27	0.007													
V472502		2.24	0.004													
V472503		2.30	0.045													
V472504		0.07	0.138													
V472505		2.08	0.050													
V472506		2.02	0.147													
V472507		2.54	0.024													
V472508		2.24	0.014													
V472509		1.98	0.018													
V472510		2.65	0.009													
V472511		1.82	0.012													
V472512		2.49	0.585	1.50	5.50	51.3	270	4.99	0.07	12.15	0.18	>500	28.5	27	29.2	229
V472513		2.12	0.620													
V472514		2.03	0.323													
V472515		2.39	0.014													
V472516		2.26	0.084													
V472517		2.06	0.127													
V472518		2.13	0.057													
V472519		2.08	0.036													
V472520		0.84	0.013													
V472521		0.98	0.010													
V472522		2.13	0.021													
V472523		2.51	0.857													
V472524		1.82	0.364													
V472525		2.25	0.003													
V472526		2.37	0.005													
V472527		2.04	0.003	0.10	6.21	44.0	390	4.27	0.03	11.65	0.10	480	18.1	51	8.07	79.4
V472528		2.27	0.198													
V472529		2.30	0.020													
V472530		1.91	0.031													
V472531		2.31	0.029													

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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20069229

Sample Description	Method Analyte Units LOD	ME-MS61 Fe % 0.01	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10
V472492																
V472493																
V472494																
V472495																
V472496																
V472497		4.07	20.2	0.52	2.9	0.036	5.21	124.0	153.5	2.41	1470	0.23	1.74	19.1	17.9	>10000
V472498																
V472499																
V472500																
V472501																
V472502																
V472503																
V472504																
V472505																
V472506																
V472507																
V472508																
V472509																
V472510																
V472511																
V472512		5.64	22.7	0.80	3.8	0.043	4.13	184.5	129.0	2.14	1520	0.24	1.72	23.5	24.1	>10000
V472513																
V472514																
V472515																
V472516																
V472517																
V472518																
V472519																
V472520																
V472521																
V472522																
V472523																
V472524																
V472525																
V472526																
V472527		4.34	20.3	0.72	3.1	0.035	4.16	165.0	136.5	2.42	1620	0.05	1.19	18.9	16.7	>10000
V472528																
V472529																
V472530																
V472531																

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ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 24-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20069229

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V472492																
V472493																
V472494																
V472495																
V472496																
V472497		7.3	257	0.003	0.53	2.09	5.2	1	0.4	1700	1.11	0.07	19.40	0.204	0.78	1.6
V472498																
V472499																
V472500																
V472501																
V472502																
V472503																
V472504																
V472505																
V472506																
V472507																
V472508																
V472509																
V472510																
V472511																
V472512		7.7	297	0.002	1.11	2.32	4.1	3	0.6	2000	1.47	1.35	32.4	0.262	0.86	2.1
V472513																
V472514																
V472515																
V472516																
V472517																
V472518																
V472519																
V472520																
V472521																
V472522																
V472523																
V472524																
V472525																
V472526																
V472527		6.3	215	0.002	0.25	2.21	4.5	1	0.4	1375	0.87	<0.05	28.5	0.172	0.51	2.0
V472528																
V472529																
V472530																
V472531																

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CERTIFICATE OF ANALYSIS VO20069229

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V472492						
V472493						
V472494						
V472495						
V472496						
V472497		166	2.9	23.9	71	143.5
V472498						
V472499						
V472500						
V472501						
V472502						
V472503						
V472504						
V472505						
V472506						
V472507						
V472508						
V472509						
V472510						
V472511						
V472512		200	4.0	39.8	77	217
V472513						
V472514						
V472515						
V472516						
V472517						
V472518						
V472519						
V472520						
V472521						
V472522						
V472523						
V472524						
V472525						
V472526						
V472527		144	2.2	28.8	60	176.0
V472528						
V472529						
V472530						
V472531						

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CERTIFICATE OF ANALYSIS VO20069229

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V472532		2.16	0.003													
V472533		1.96	0.001													
V472534		2.07	0.001													
V472535		2.17	2.55													
V472536		0.91	0.006													
V472537		1.88	0.006													
V472538		2.18	0.007													
V472539		2.24	0.012													
V472540		1.11	0.008													
V472541		1.01	0.390													
V472542		1.18	0.330	1.54	5.77	131.0	450	2.21	0.23	10.10	0.21	484	50.3	23	29.2	282
V472543		1.02	0.011													
V472544		2.30	0.062													
V472545		2.07	0.007													
V472546		2.12	0.004													
V472547		2.36	0.021													
V472548		1.93	0.126													
V472549		2.26	0.017													
V472550		2.40	0.334													
V472551		2.05	0.441													
V472552		0.07	0.515													
V472553		2.15	1.255													
V472554		2.35	0.033													
V472555		2.25	0.028													
V472556		1.93	0.009													
V472557		2.20	0.010	0.16	3.29	50.6	150	3.09	0.07	17.70	0.14	>500	21.9	34	16.25	146.0
V472558		2.33	0.034													
V472559		2.38	0.008													
V472560		2.20	0.006													
V472561		2.37	0.010													
V472562		2.18	0.014													
V472563		2.43	0.005													
V472564		2.01	0.005													
V472565		2.39	0.004													
V472566		2.41	0.004													
V472567		2.28	0.007													
V472568		2.04	<0.001													
V472569		<0.02	0.001													
V472570		2.37	0.032													
V472571		2.04	0.032													

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CERTIFICATE OF ANALYSIS VO20069229

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	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V472532																
V472533																
V472534																
V472535																
V472536																
V472537																
V472538																
V472539																
V472540																
V472541																
V472542		5.48	19.05	0.67	2.5	0.034	4.86	155.5	263	1.59	1240	109.0	0.37	33.3	43.8	>10000
V472543																
V472544																
V472545																
V472546																
V472547																
V472548																
V472549																
V472550																
V472551																
V472552																
V472553																
V472554																
V472555																
V472556																
V472557		4.54	17.65	1.56	2.1	0.036	1.98	378	57.6	1.82	1460	0.54	1.45	21.5	20.4	>10000
V472558																
V472559																
V472560																
V472561																
V472562																
V472563																
V472564																
V472565																
V472566																
V472567																
V472568																
V472569																
V472570																
V472571																

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V472532 V472533 V472534 V472535 V472536																
V472537 V472538 V472539 V472540 V472541																
V472542 V472543 V472544 V472545 V472546		22.5	274	0.005	4.24	4.90	6.7	4	0.5	1620	0.89	1.21	53.1	0.181	1.59	1.8
V472547 V472548 V472549 V472550 V472551																
V472552 V472553 V472554 V472555 V472556																
V472557 V472558 V472559 V472560 V472561		10.0	162.5	0.002	1.04	1.57	3.7	2	0.4	3130	1.26	0.08	53.9	0.217	0.62	3.2
V472562 V472563 V472564 V472565 V472566																
V472567 V472568 V472569 V472570 V472571																

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CERTIFICATE OF ANALYSIS VO20069229

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V472532						
V472533						
V472534						
V472535						
V472536						
V472537						
V472538						
V472539						
V472540						
V472541						
V472542		120	4.3	60.4	67	125.0
V472543						
V472544						
V472545						
V472546						
V472547						
V472548						
V472549						
V472550						
V472551						
V472552						
V472553						
V472554						
V472555						
V472556						
V472557		213	1.0	46.5	35	132.5
V472558						
V472559						
V472560						
V472561						
V472562						
V472563						
V472564						
V472565						
V472566						
V472567						
V472568						
V472569						
V472570						
V472571						

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CERTIFICATE OF ANALYSIS VO20069229

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V472572		2.21	0.006	0.03	6.87	81.8	390	4.04	0.03	7.06	0.08	145.5	21.4	99	73.5	46.7
V472573		2.22	0.008													
V472574		2.20	0.005													
V472575		2.10	0.004													
V472576		2.40	0.007													
V472577		2.17	0.004													
V472578		2.09	0.002													
V472579		2.37	0.026													
V472580		2.07	0.020													
V472581		2.10	0.002													
V472582		2.42	0.005													
V472583		1.95	0.001													
V472584		0.91	0.003													
V472585		2.49	<0.001													
V472586		2.13	<0.001													
V472587		2.26	0.009	0.22	7.00	217	290	4.47	0.06	9.98	0.26	244	18.9	57	33.4	77.0
V472588		2.21	<0.001													
V472589		2.00	0.001													
V472590		2.19	0.005													
V472591		2.31	<0.001													
V472592		2.01	0.002													
V472593		2.02	0.010													
V472594		2.08	0.017													
V472595		2.28	0.017													
V472596		2.33	0.012													
V472597		2.22	0.004													
V472598		2.08	0.042													
V472599		2.10	0.021													
V472600		0.07	2.99													
V472601		2.11	0.179													
V472602		2.14	0.168	0.29	6.61	112.0	390	3.14	0.03	8.45	0.14	123.0	29.5	68	40.6	115.0
V472603		2.24	0.152													
V472604		2.20	0.004													
V472605		2.53	0.008													
V472606		2.15	0.006													
V472607		1.98	0.014													
V472608		0.07	0.139													
V472609		1.81	0.018													
V472610		2.15	0.016													
V472611		2.17	0.014													

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V472572 V472573 V472574 V472575 V472576		3.90	19.75	0.24	3.5	0.033	4.96	47.5	140.0	2.40	1250	0.22	1.18	84.7	70.7	5770
V472577 V472578 V472579 V472580 V472581																
V472582 V472583 V472584 V472585 V472586																
V472587 V472588 V472589 V472590 V472591		4.08	22.9	0.35	3.7	0.034	4.98	80.5	232	2.38	1340	0.30	1.52	65.2	38.9	>10000
V472592 V472593 V472594 V472595 V472596																
V472597 V472598 V472599 V472600 V472601																
V472602 V472603 V472604 V472605 V472606		5.12	18.75	0.27	2.7	0.042	5.52	39.4	143.5	2.44	1510	0.65	1.58	38.5	52.8	4150
V472607 V472608 V472609 V472610 V472611																

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V472572 V472573 V472574 V472575 V472576		3.2	374	<0.002	0.41	1.62	10.0	1	0.5	723	2.24	<0.05	5.87	0.339	1.42	0.7
V472577 V472578 V472579 V472580 V472581																
V472582 V472583 V472584 V472585 V472586																
V472587 V472588 V472589 V472590 V472591		5.3	380	<0.002	0.28	6.96	7.7	1	0.4	1600	3.15	<0.05	13.15	0.242	0.61	1.5
V472592 V472593 V472594 V472595 V472596																
V472597 V472598 V472599 V472600 V472601																
V472602 V472603 V472604 V472605 V472606		5.5	384	<0.002	1.09	1.53	12.7	2	0.6	763	1.18	0.22	6.13	0.403	1.05	0.9
V472607 V472608 V472609 V472610 V472611																

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Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V472572 V472573 V472574 V472575 V472576		148	0.5	9.9	73	151.5
V472577 V472578 V472579 V472580 V472581						
V472582 V472583 V472584 V472585 V472586						
V472587 V472588 V472589 V472590 V472591		144	0.5	13.2	91	191.5
V472592 V472593 V472594 V472595 V472596						
V472597 V472598 V472599 V472600 V472601						
V472602 V472603 V472604 V472605 V472606		213	8.4	18.0	88	148.0
V472607 V472608 V472609 V472610 V472611						

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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20069229

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V472612		2.23	0.315													
V472613		2.04	5.30													
V472614		2.10	0.255													
V472615		2.24	0.008													
V472616		2.13	0.009													
V472617		2.15	0.004													
V472618		2.34	0.007													
V472619		2.10	0.007													
V472620		2.02	0.002													
V472621		1.73	0.002													
V472622		2.02	0.004													
V472623		1.91	<0.001													
V472624		0.80	0.002													
V472625		0.82	0.007													
V472626		1.86	0.013													
V472627		2.14	0.004	0.06	4.83	84.7	550	2.82	0.04	16.05	0.08	212	9.1	27	3.58	19.3
V472628		2.00	0.005													
V472629		1.88	0.005													
V472630		2.08	0.005													
V472631		2.20	0.004													
V472632		2.21	0.004													
V472633		1.92	0.055													
V472634		1.94	0.013													
V472635		1.87	0.001													
V472636		2.05	0.039													
V472637		1.89	0.003													
V472638		2.00	0.004													
V472639		2.01	0.022													
V472640		0.77	0.003													
V472641		2.39	0.014													

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 24-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20069229

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V472612 V472613 V472614 V472615 V472616																
V472617 V472618 V472619 V472620 V472621																
V472622 V472623 V472624 V472625 V472626																
V472627 V472628 V472629 V472630 V472631		2.80	15.60	0.29	1.6	0.027	5.57	76.5	21.4	1.38	1200	4.20	0.28	28.2	21.0	6790
V472632 V472633 V472634 V472635 V472636																
V472637 V472638 V472639 V472640 V472641																

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CERTIFICATE OF ANALYSIS VO20069229

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V472612 V472613 V472614 V472615 V472616																
V472617 V472618 V472619 V472620 V472621																
V472622 V472623 V472624 V472625 V472626																
V472627 V472628 V472629 V472630 V472631		3.1	297	<0.002	0.35	1.45	5.1	1	0.3	2810	0.79	0.11	5.63	0.162	0.47	0.7
V472632 V472633 V472634 V472635 V472636																
V472637 V472638 V472639 V472640 V472641																

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CERTIFICATE OF ANALYSIS VO20069229

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V472612 V472613 V472614 V472615 V472616						
V472617 V472618 V472619 V472620 V472621						
V472622 V472623 V472624 V472625 V472626						
V472627 V472628 V472629 V472630 V472631		128	0.4	9.3	49	70.0
V472632 V472633 V472634 V472635 V472636						
V472637 V472638 V472639 V472640 V472641						

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Finalized Date: 24-APR-2020
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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20069229

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

Applies to Method:				
CRU-31	CRU-QC	LOG-21	LOG-21d
LOG-23	PUL-31	PUL-31d	PUL-QC
SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:	
Au-ICP21	ME-MS61

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North Vancouver BC V7H 0A7
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TORONTO ON M5H 3W4

Finalized Date: 27-APR-2020
Account: VISAU

CERTIFICATE VO20069233

Project: DOUAY

P.O. No.: Shipment MGM2004

This report is for 149 Drill Core samples submitted to our lab in Val d'Or, QC, Canada on 24-MAR-2020.

The following have access to data associated with this certificate:

WEBTRIEVE (AURVISTA) ACCESS EVEN STAVRE	VIVIAN PARK	FRED SPEIDEL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SPL-21d	Split sample - duplicate
LOG-21d	Sample logging - ClientBarCode Dup
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
PUL-31d	Pulverize Split - duplicate
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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CERTIFICATE OF ANALYSIS VO20069233

Sample Description	Method / Analyte / Units / LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
V472642		1.76	0.006	0.09	6.91	32.6	580	3.47	0.11	9.72	0.13	131.5	16.5	58	11.75	62.9
V472643		2.09	0.138													
V472644		2.50	0.021													
V472645		1.61	0.052													
V472646		1.69	0.004													
V472647		2.97	0.026													
V472648		2.04	0.238													
V472649		2.10	0.032													
V472650		2.06	0.763													
V472651		2.14	0.244													
V472652		2.12	0.018													
V472653		3.10	0.006													
V472654		1.98	0.005													
V472655		1.72	0.003													
V472656		0.07	0.510													
V472657		2.38	0.461	1.21	7.20	68.1	890	3.16	0.17	7.75	0.10	121.0	13.7	93	6.59	47.1
V472658		2.08	0.226													
V472659		2.11	0.366													
V472660		2.27	0.237													
V472661		2.11	0.122													
V472662		1.97	0.015													
V472663		2.37	0.022													
V472664		1.88	0.015													
V472665		2.22	0.002													
V472666		2.28	0.002													
V472667		1.89	0.004													
V472668		2.03	0.073													
V472669		2.26	0.007													
V472670		2.19	0.006													
V472671		2.07	0.075													
V472672		2.26	0.650	1.35	7.09	97.9	1280	2.07	0.25	4.49	0.08	48.4	20.3	25	3.39	71.2
V472673		<0.02	0.598													
V472674		2.15	0.121													
V472675		1.89	1.160													
V472676		2.27	0.575													
V472677		2.10	0.032													
V472678		2.03	0.109													
V472679		2.06	0.099													
V472680		2.07	0.236													
V472681		2.05	0.409													

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CERTIFICATE OF ANALYSIS VO20069233

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V472642 V472643 V472644 V472645 V472646		5.10	18.95	0.21	2.9	0.047	4.19	47.2	118.5	2.77	1710	11.05	0.79	25.0	49.0	6440
V472647 V472648 V472649 V472650 V472651																
V472652 V472653 V472654 V472655 V472656																
V472657 V472658 V472659 V472660 V472661		4.11	19.65	0.23	2.9	0.036	4.47	42.9	73.1	1.95	1080	58.5	1.00	25.8	48.6	4730
V472662 V472663 V472664 V472665 V472666																
V472667 V472668 V472669 V472670 V472671																
V472672 V472673 V472674 V472675 V472676		3.77	19.20	0.10	3.1	0.016	4.15	19.0	33.5	0.91	782	9.14	0.66	47.0	54.1	1550
V472677 V472678 V472679 V472680 V472681																

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Finalized Date: 27-APR-2020
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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20069233

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V472642 V472643 V472644 V472645 V472646		5.3	207	<0.002	0.38	1.39	8.3	1	0.4	1005	1.27	0.06	4.80	0.212	0.99	1.3
V472647 V472648 V472649 V472650 V472651																
V472652 V472653 V472654 V472655 V472656																
V472657 V472658 V472659 V472660 V472661		7.9	146.5	0.002	0.99	1.80	6.9	3	0.5	2530	0.86	0.93	13.05	0.184	0.91	2.8
V472662 V472663 V472664 V472665 V472666																
V472667 V472668 V472669 V472670 V472671																
V472672 V472673 V472674 V472675 V472676		7.1	104.5	0.005	2.62	3.93	3.2	2	0.4	711	0.87	0.94	9.96	0.154	1.22	0.9
V472677 V472678 V472679 V472680 V472681																

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CERTIFICATE OF ANALYSIS VO20069233

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V472642 V472643 V472644 V472645 V472646		242	1.7	13.8	113	164.5
V472647 V472648 V472649 V472650 V472651						
V472652 V472653 V472654 V472655 V472656						
V472657 V472658 V472659 V472660 V472661		143	5.3	18.4	53	148.0
V472662 V472663 V472664 V472665 V472666						
V472667 V472668 V472669 V472670 V472671						
V472672 V472673 V472674 V472675 V472676		97	9.6	8.8	49	180.5
V472677 V472678 V472679 V472680 V472681						

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Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V472682		2.21	0.170													
V472683		1.92	0.542													
V472684		2.06	0.156													
V472685		2.17	0.045													
V472686		2.06	0.127													
V472687		2.17	0.168	0.12	7.84	69.2	950	2.09	0.30	4.68	0.07	185.5	17.2	70	5.11	29.2
V472688		0.89	0.003													
V472689		2.04	0.007													
V472690		1.50	0.012													
V472691		1.82	0.125													
V472692		1.57	0.322													
V472693		1.99	0.040													
V472694		2.04	0.011													
V472695		2.24	0.007													
V472696		1.98	0.005													
V472697		2.15	0.009													
V472698		2.11	0.010													
V472699		2.19	0.049													
V472700		2.01	0.012													
V472701		2.10	0.593													
V472702		2.12	0.122	0.10	6.86	74.5	860	2.07	0.42	7.96	0.09	252	14.2	70	4.40	35.1
V472703		2.07	0.084													
V472704		0.07	3.01													
V472705		2.01	0.071													
V472706		2.04	0.074													
V472707		2.00	0.099													
V472708		2.09	0.117													
V472709		2.13	0.063													
V472710		1.98	0.010													
V472711		1.95	0.309													
V472712		2.29	0.529													
V472713		1.72	0.653													
V472714		2.00	0.204													
V472715		2.22	0.418													
V472716		2.07	0.275													
V472717		1.83	0.059													
V472718		2.55	0.062													
V472719		2.02	0.459													
V472720		0.93	0.361													
V472721		0.69	0.342													

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CERTIFICATE OF ANALYSIS VO20069233

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V472682																
V472683																
V472684																
V472685																
V472686																
V472687		3.77	18.80	0.18	3.3	0.026	1.65	78.0	62.7	1.38	819	3.06	5.48	7.6	57.6	1170
V472688																
V472689																
V472690																
V472691																
V472692																
V472693																
V472694																
V472695																
V472696																
V472697																
V472698																
V472699																
V472700																
V472701																
V472702		3.17	16.65	0.26	2.7	0.032	1.68	114.5	97.2	1.35	811	1.45	4.51	24.7	62.6	2750
V472703																
V472704																
V472705																
V472706																
V472707																
V472708																
V472709																
V472710																
V472711																
V472712																
V472713																
V472714																
V472715																
V472716																
V472717																
V472718																
V472719																
V472720																
V472721																

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 27-APR-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20069233

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V472682																
V472683																
V472684																
V472685																
V472686																
V472687		17.6	58.7	0.003	0.52	2.55	9.5	1	0.5	1275	0.19	0.09	8.03	0.277	0.54	3.1
V472688																
V472689																
V472690																
V472691																
V472692																
V472693																
V472694																
V472695																
V472696																
V472697																
V472698																
V472699																
V472700																
V472701																
V472702		14.6	75.8	0.002	0.39	2.47	7.4	1	0.5	2690	0.38	0.18	7.83	0.258	0.59	3.2
V472703																
V472704																
V472705																
V472706																
V472707																
V472708																
V472709																
V472710																
V472711																
V472712																
V472713																
V472714																
V472715																
V472716																
V472717																
V472718																
V472719																
V472720																
V472721																

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CERTIFICATE OF ANALYSIS VO20069233

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V472682						
V472683						
V472684						
V472685						
V472686						
V472687		107	5.0	14.8	90	141.5
V472688						
V472689						
V472690						
V472691						
V472692						
V472693						
V472694						
V472695						
V472696						
V472697						
V472698						
V472699						
V472700						
V472701						
V472702		121	3.3	19.4	82	128.5
V472703						
V472704						
V472705						
V472706						
V472707						
V472708						
V472709						
V472710						
V472711						
V472712						
V472713						
V472714						
V472715						
V472716						
V472717						
V472718						
V472719						
V472720						
V472721						

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CERTIFICATE OF ANALYSIS VO20069233

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
V472722		2.29	0.052													
V472723		2.03	0.073													
V472724		2.34	0.037													
V472725		1.79	0.037													
V472726		2.04	0.183													
V472727		2.19	0.284	0.20	7.72	109.0	1270	1.69	0.12	4.58	0.04	94.6	16.1	65	2.83	20.7
V472728		1.74	0.658													
V472729		2.01	0.843													
V472730		2.06	0.389													
V472731		2.04	0.738													
V472732		2.05	0.059													
V472733		1.98	0.623													
V472734		2.04	0.657													
V472735		2.08	0.706													
V472736		0.72	0.004													
V472737		2.69	0.673													
V472738		1.84	0.790													
V472739		2.10	0.423													
V472740		2.85	0.071													
V472741		2.00	0.131													
V472742		2.19	0.058	0.12	7.19	30.7	1370	1.94	0.37	6.10	0.10	161.5	23.7	84	1.62	49.6
V472743		2.34	0.065													
V472744		1.93	0.020													
V472745		2.35	0.062													
V472746		2.22	0.026													
V472747		1.95	0.038													
V472748		2.32	0.013													
V472749		1.87	0.016													
V472750		1.95	0.025													
V472751		2.25	0.027													
V472752		0.07	0.136													
V472753		2.34	0.031													
V472754		1.92	0.453													
V472755		2.35	0.225													
V472756		2.47	0.095													
V472757		1.85	0.046	0.10	7.53	21.5	160	1.72	0.50	5.38	0.06	68.0	18.1	58	1.01	11.5
V472758		2.08	0.014													
V472759		2.21	0.041													
V472760		1.77	0.179													
V472761		2.18	0.082													

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CERTIFICATE OF ANALYSIS VO20069233

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V472722																
V472723																
V472724																
V472725																
V472726																
V472727		3.61	19.95	0.13	3.1	0.030	3.25	45.9	56.7	1.66	691	2.72	4.30	6.2	61.3	970
V472728																
V472729																
V472730																
V472731																
V472732																
V472733																
V472734																
V472735																
V472736																
V472737																
V472738																
V472739																
V472740																
V472741																
V472742		4.73	17.15	0.14	2.5	0.036	1.77	92.5	36.5	1.98	1140	1.48	4.05	5.6	66.9	970
V472743																
V472744																
V472745																
V472746																
V472747																
V472748																
V472749																
V472750																
V472751																
V472752																
V472753																
V472754																
V472755																
V472756																
V472757		3.44	18.25	0.08	3.3	0.028	1.38	33.5	25.9	1.98	776	2.47	5.30	3.4	50.5	940
V472758																
V472759																
V472760																
V472761																

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CERTIFICATE OF ANALYSIS VO20069233

Sample Description	Method Analyte Units LOD	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
V472722																
V472723																
V472724																
V472725																
V472726																
V472727		7.6	77.7	0.002	0.76	2.55	9.2	1	0.6	1480	0.14	0.20	6.37	0.232	0.85	1.3
V472728																
V472729																
V472730																
V472731																
V472732																
V472733																
V472734																
V472735																
V472736																
V472737																
V472738																
V472739																
V472740																
V472741																
V472742		7.8	73.6	0.002	1.28	1.90	12.9	1	0.5	1550	0.12	0.15	4.59	0.263	0.62	2.2
V472743																
V472744																
V472745																
V472746																
V472747																
V472748																
V472749																
V472750																
V472751																
V472752																
V472753																
V472754																
V472755																
V472756																
V472757		8.9	38.6	<0.002	1.24	1.52	7.6	1	0.5	312	0.14	0.09	8.82	0.182	0.37	1.5
V472758																
V472759																
V472760																
V472761																

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CERTIFICATE OF ANALYSIS VO20069233

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V472722						
V472723						
V472724						
V472725						
V472726						
V472727		105	5.8	10.2	66	138.0
V472728						
V472729						
V472730						
V472731						
V472732						
V472733						
V472734						
V472735						
V472736						
V472737						
V472738						
V472739						
V472740						
V472741						
V472742		144	3.5	15.4	101	111.5
V472743						
V472744						
V472745						
V472746						
V472747						
V472748						
V472749						
V472750						
V472751						
V472752						
V472753						
V472754						
V472755						
V472756						
V472757		78	6.5	10.9	56	146.5
V472758						
V472759						
V472760						
V472761						

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CERTIFICATE OF ANALYSIS VO20069233

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V472762		1.91	0.084													
V472763		2.06	0.497													
V472764		2.19	0.155													
V472765		1.93	0.059													
V472766		2.00	0.129													
V472767		2.21	0.468													
V472768		1.79	0.738													
V472769		<0.02	0.720													
V472770		1.84	0.285													
V472771		2.05	0.410													
V472772		2.03	0.072	0.03	6.98	12.0	390	2.61	0.09	3.11	0.02	50.4	14.4	78	3.12	27.4
V472773		2.13	0.043													
V472774		2.22	0.045													
V472775		1.98	0.022													
V472776		2.31	0.040													
V472777		2.20	0.025													
V472778		2.06	0.019													
V472779		2.27	0.017													
V472780		2.25	0.013													
V472781		1.91	0.027													
V472782		2.32	0.040													
V472783		1.95	0.018													
V472784		0.74	<0.001													
V472785		2.02	0.017													
V472786		2.11	0.016													
V472787		1.94	0.011	0.10	7.10	22.2	1270	1.94	0.17	4.79	0.06	81.0	22.8	69	2.39	41.4
V472788		2.27	0.009													
V472789		2.11	0.020													
V472790		2.35	0.014													

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Finalized Date: 27-APR-2020
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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20069233

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V472762 V472763 V472764 V472765 V472766																
V472767 V472768 V472769 V472770 V472771																
V472772 V472773 V472774 V472775 V472776		2.97	19.90	0.08	3.6	0.024	3.48	24.3	31.2	1.42	497	1.63	2.58	5.4	55.6	960
V472777 V472778 V472779 V472780 V472781																
V472782 V472783 V472784 V472785 V472786																
V472787 V472788 V472789 V472790		3.15	18.40	0.10	3.1	0.031	2.11	42.7	26.9	1.37	698	11.25	4.55	7.6	92.5	970

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V472762 V472763 V472764 V472765 V472766																
V472767 V472768 V472769 V472770 V472771																
V472772 V472773 V472774 V472775 V472776		2.6	87.1	0.005	0.47	1.61	8.2	1	0.6	151.0	0.23	<0.05	3.54	0.304	0.83	0.9
V472777 V472778 V472779 V472780 V472781																
V472782 V472783 V472784 V472785 V472786																
V472787 V472788 V472789 V472790		5.9	46.3	0.016	0.88	3.21	8.2	1	0.6	2260	0.25	0.12	3.18	0.297	0.57	1.1

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CERTIFICATE OF ANALYSIS VO20069233

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V472762 V472763 V472764 V472765 V472766						
V472767 V472768 V472769 V472770 V472771						
V472772 V472773 V472774 V472775 V472776		88	5.8	8.0	66	162.5
V472777 V472778 V472779 V472780 V472781						
V472782 V472783 V472784 V472785 V472786						
V472787 V472788 V472789 V472790		116	2.8	8.6	58	141.0

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CERTIFICATE OF ANALYSIS VO20069233

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Thunder Bay located at 645 Norah Crescent, Thunder Bay, ON, Canada

Applies to Method:				
CRU-31	CRU-QC	LOG-21	LOG-21d
LOG-23	PUL-31	PUL-31d	PUL-QC
SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:	
Au-ICP21	ME-MS61

ALS Canada Ltd.

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Finalized Date: 9-MAY-2020
Account: VISAU

CERTIFICATE VO20085080

Project: DOUAY

P.O. No.: Shipment MGM2003

This report is for 1 Drill Core sample submitted to our lab in Val d'Or, QC, Canada on 18-APR-2020.

The following have access to data associated with this certificate:

WEBTRIEVE (AURVISTA) ACCESS EVEN STAVRE	VIVIAN PARK	FRED SPEIDEL

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND-03	Find Reject for Addn Analysis
PUL-31d	Pulverize Split - duplicate
LOG-21d	Sample logging - ClientBarCode Dup
SPL-21d	Split sample - duplicate

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-GRA21	Au 30g FA-GRAV finish	WST-SIM

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Comments: Original workorder VO20059813.

Signature:

Saa Traxler, General Manager, North Vancouver

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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20085080

Sample Description	Method Analyte Units LOD	Au-GRA21 Au ppm 0.05
V472058		7.29

Comments: Original workorder VO20059813.

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 9-MAY-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20085080

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au-GRA21

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Finalized Date: 10-MAY-2020
Account: VISAU

CERTIFICATE VO20089187

Project: DOUAY

P.O. No.: MGM2005

This report is for 157 Drill Core samples submitted to our lab in Val d'Or, QC, Canada on 22-APR-2020.

The following have access to data associated with this certificate:

WEBTRIEVE (AURVISTA) ACCESS	FRED SPEIDEL	EVEN STAVRE

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SPL-21d	Split sample - duplicate
LOG-21d	Sample logging - ClientBarCode Dup
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
PUL-31d	Pulverize Split - duplicate
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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CERTIFICATE OF ANALYSIS VO20089187

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V472791		2.18	0.075	0.79	2.93	95.2	100	2.86	0.24	16.65	0.41	>500	33.6	2	4.08	251
V472792		2.25	0.017													
V472793		1.97	0.092													
V472794		2.12	0.165													
V472795		2.30	0.072													
V472796		2.27	0.383													
V472797		2.24	0.008													
V472798		2.35	0.103													
V472799		2.40	0.036													
V472800		0.07	0.543													
V472801		2.49	0.225													
V472802		2.51	0.017													
V472803		2.62	0.307													
V472804		2.24	0.597													
V472805		2.16	0.027													
V472806		2.10	0.176	0.84	5.25	126.5	80	4.37	0.08	13.10	0.17	>500	29.3	8	8.37	152.5
V472807		2.21	0.046													
V472808		0.07	2.43													
V472809		1.91	0.095													
V472810		2.65	0.507													
V472811		2.37	0.196													
V472812		2.65	0.464													
V472813		2.29	0.544													
V472814		2.68	0.311													
V472815		2.53	0.228													
V472816		2.44	0.011													
V472817		2.23	0.009													
V472818		2.49	0.634													
V472819		2.12	1.485													
V472820		1.69	0.067													
V472821		2.64	0.522	1.47	5.42	203	160	4.95	0.05	11.95	0.42	335	35.5	12	12.15	258
V472822		2.33	0.858													
V472823		2.33	0.131													
V472824		1.13	2.65													
V472825		1.02	1.315													
V472826		2.57	0.378													
V472827		2.23	0.076													
V472828		2.18	0.617													
V472829		2.19	0.151													
V472830		2.20	0.141													

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V472791 V472792 V472793 V472794 V472795		9.41	18.35	1.53	2.7	0.070	1.74	321	61.2	0.97	1610	0.28	0.60	88.2	5.2	>10000
V472796 V472797 V472798 V472799 V472800																
V472801 V472802 V472803 V472804 V472805																
V472806 V472807 V472808 V472809 V472810		5.84	19.60	0.66	3.5	0.047	2.85	167.5	156.0	3.25	1930	1.55	0.51	27.2	8.4	>10000
V472811 V472812 V472813 V472814 V472815																
V472816 V472817 V472818 V472819 V472820																
V472821 V472822 V472823 V472824 V472825		6.61	19.55	0.44	5.7	0.039	4.70	94.2	115.5	1.57	1740	0.19	0.50	45.2	22.7	>10000
V472826 V472827 V472828 V472829 V472830																

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CERTIFICATE OF ANALYSIS VO20089187

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V472791 V472792 V472793 V472794 V472795		16.0	92.7	0.002	1.77	29.2	1.2	2	1.0	2270	7.41	0.37	56.1	0.570	0.31	5.0
V472796 V472797 V472798 V472799 V472800																
V472801 V472802 V472803 V472804 V472805																
V472806 V472807 V472808 V472809 V472810		8.1	136.0	<0.002	1.51	6.83	3.3	2	0.5	1320	1.25	0.64	31.4	0.245	0.53	2.5
V472811 V472812 V472813 V472814 V472815																
V472816 V472817 V472818 V472819 V472820																
V472821 V472822 V472823 V472824 V472825		8.7	260	<0.002	1.76	25.0	3.2	3	0.7	1290	2.22	0.27	22.5	0.369	0.93	2.1
V472826 V472827 V472828 V472829 V472830																

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CERTIFICATE OF ANALYSIS VO20089187

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V472791		511	19.2	78.1	53	278
V472792						
V472793						
V472794						
V472795						
V472796						
V472797						
V472798						
V472799						
V472800						
V472801						
V472802						
V472803						
V472804						
V472805						
V472806		226	5.6	29.2	89	218
V472807						
V472808						
V472809						
V472810						
V472811						
V472812						
V472813						
V472814						
V472815						
V472816						
V472817						
V472818						
V472819						
V472820						
V472821		286	11.5	43.3	75	379
V472822						
V472823						
V472824						
V472825						
V472826						
V472827						
V472828						
V472829						
V472830						

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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
V472831		2.16	0.392													
V472832		1.99	0.153													
V472833		2.00	0.328													
V472834		2.15	0.473													
V472835		2.14	0.799													
V472836		2.33	0.843	5.01	6.27	281	330	2.89	0.40	10.55	0.35	342	18.1	11	26.9	228
V472837		2.24	0.049													
V472838		2.27	0.237													
V472839		2.29	0.133													
V472840		0.81	0.004													
V472841		2.18	0.017													
V472842		1.98	0.192													
V472843		1.56	0.007													
V472844		2.17	0.015													
V472845		2.46	0.043													
V472846		2.14	0.190													
V472847		2.49	0.070													
V472848		2.40	0.015													
V472849		2.25	0.316													
V472850		2.41	0.045													
V472851		2.38	0.017	0.08	8.81	371	110	3.69	0.07	11.15	0.11	324	14.5	4	3.51	40.8
V472852		2.62	0.030													
V472853		2.02	0.971													
V472854		1.87	0.978													
V472855		2.05	0.012													
V472856		0.07	0.147													
V472857		1.93	0.012													
V472858		1.96	0.019													
V472859		2.41	0.849													
V472860		2.20	1.215													
V472861		2.18	0.229													
V472862		2.37	0.262													
V472863		2.23	0.014													
V472864		2.39	0.207													
V472865		2.37	0.168													
V472866		2.38	0.041	0.39	7.23	60.8	1020	3.59	0.09	9.95	0.21	117.0	12.5	2	7.83	97.0
V472867		2.37	0.027													
V472868		2.09	0.071													
V472869		2.19	0.173													
V472870		2.35	0.017													

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V472831																
V472832																
V472833																
V472834																
V472835																
V472836		5.44	19.10	0.46	3.9	0.044	6.20	97.8	107.5	2.07	1590	135.5	0.42	32.7	9.2	>10000
V472837																
V472838																
V472839																
V472840																
V472841																
V472842																
V472843																
V472844																
V472845																
V472846																
V472847																
V472848																
V472849																
V472850																
V472851		4.48	24.1	0.39	1.8	0.033	4.14	93.2	115.0	2.15	1530	0.14	0.71	23.7	8.5	>10000
V472852																
V472853																
V472854																
V472855																
V472856																
V472857																
V472858																
V472859																
V472860																
V472861																
V472862																
V472863																
V472864																
V472865																
V472866		2.74	27.1	0.19	3.7	0.014	6.08	36.8	66.6	0.57	705	0.92	0.48	109.5	6.3	2950
V472867																
V472868																
V472869																
V472870																

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V472831																
V472832																
V472833																
V472834																
V472835																
V472836		15.6	376	0.011	2.66	26.4	4.2	3	0.7	1440	1.34	2.57	24.2	0.283	1.54	2.6
V472837																
V472838																
V472839																
V472840																
V472841																
V472842																
V472843																
V472844																
V472845																
V472846																
V472847																
V472848																
V472849																
V472850																
V472851		5.7	179.0	<0.002	0.01	39.1	2.9	1	0.3	1975	0.90	<0.05	19.25	0.153	0.47	1.5
V472852																
V472853																
V472854																
V472855																
V472856																
V472857																
V472858																
V472859																
V472860																
V472861																
V472862																
V472863																
V472864																
V472865																
V472866		5.3	204	<0.002	0.72	2.65	0.9	1	0.4	2310	5.44	0.28	4.10	0.225	1.03	1.2
V472867																
V472868																
V472869																
V472870																

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Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V472831						
V472832						
V472833						
V472834						
V472835						
V472836		258	14.8	40.0	77	270
V472837						
V472838						
V472839						
V472840						
V472841						
V472842						
V472843						
V472844						
V472845						
V472846						
V472847						
V472848						
V472849						
V472850						
V472851		166	0.8	14.3	77	107.5
V472852						
V472853						
V472854						
V472855						
V472856						
V472857						
V472858						
V472859						
V472860						
V472861						
V472862						
V472863						
V472864						
V472865						
V472866		132	1.9	9.1	42	233
V472867						
V472868						
V472869						
V472870						

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Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V472871		2.21	0.013													
V472872		2.56	0.009													
V472873		<0.02	0.008													
V472874		2.29	0.372													
V472875		2.30	0.008													
V472876		2.40	0.147													
V472877		2.34	0.309													
V472878		2.38	1.375													
V472879		2.42	0.212													
V472880		2.46	0.215													
V472881		2.17	0.072	0.21	7.38	46.1	1780	2.55	0.41	3.75	0.13	169.5	7.4	23	10.50	16.0
V472882		2.01	0.019													
V472883		1.97	0.445													
V472884		1.93	0.011													
V472885		1.97	1.135													
V472886		1.88	0.133													
V472887		2.09	0.131													
V472888		0.88	0.005													
V472889		2.08	0.035													
V472890		1.79	0.057													
V472891		2.02	0.110													
V472892		1.97	0.004													
V472893		2.19	0.040													
V472894		2.08	0.011													
V472895		2.22	0.022													
V472896		2.45	0.011	0.16	7.25	51.6	1820	4.27	0.32	6.75	0.15	304	19.5	11	12.15	85.7
V472897		2.34	0.004													
V472898		2.37	0.008													
V472899		2.35	0.013													
V472900		2.55	0.011													
V472901		2.34	0.006													
V472902		2.37	0.007													
V472903		2.33	0.006													
V472904		0.07	0.508													
V472905		1.95	0.063													
V472906		2.08	0.259													
V472907		1.88	0.076													
V472908		1.98	0.105													
V472909		2.35	0.009													
V472910		2.36	0.028													

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 10-MAY-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20089187

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V472871																
V472872																
V472873																
V472874																
V472875																
V472876																
V472877																
V472878																
V472879																
V472880																
V472881		2.34	24.2	0.27	5.1	0.016	5.25	61.2	91.7	0.50	627	11.20	3.78	27.0	15.7	550
V472882																
V472883																
V472884																
V472885																
V472886																
V472887																
V472888																
V472889																
V472890																
V472891																
V472892																
V472893																
V472894																
V472895																
V472896		4.39	21.7	0.36	5.4	0.031	6.08	105.0	179.0	0.93	1220	3.09	1.31	34.9	12.1	2260
V472897																
V472898																
V472899																
V472900																
V472901																
V472902																
V472903																
V472904																
V472905																
V472906																
V472907																
V472908																
V472909																
V472910																

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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20089187

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V472871																
V472872																
V472873																
V472874																
V472875																
V472876																
V472877																
V472878																
V472879																
V472880																
V472881		26.3	168.5	0.004	1.10	2.48	2.3	1	0.6	2610	0.56	0.23	11.00	0.224	0.86	3.1
V472882																
V472883																
V472884																
V472885																
V472886																
V472887																
V472888																
V472889																
V472890																
V472891																
V472892																
V472893																
V472894																
V472895																
V472896		28.5	142.5	0.003	0.14	4.33	3.1	1	0.7	3060	0.81	0.09	15.10	0.342	0.96	4.4
V472897																
V472898																
V472899																
V472900																
V472901																
V472902																
V472903																
V472904																
V472905																
V472906																
V472907																
V472908																
V472909																
V472910																

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CERTIFICATE OF ANALYSIS VO20089187

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5
V472871						
V472872						
V472873						
V472874						
V472875						
V472876						
V472877						
V472878						
V472879						
V472880						
V472881		87	5.0	16.0	80	301
V472882						
V472883						
V472884						
V472885						
V472886						
V472887						
V472888						
V472889						
V472890						
V472891						
V472892						
V472893						
V472894						
V472895						
V472896		150	4.9	33.5	136	318
V472897						
V472898						
V472899						
V472900						
V472901						
V472902						
V472903						
V472904						
V472905						
V472906						
V472907						
V472908						
V472909						
V472910						

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Finalized Date: 10-MAY-2020
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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20089187

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V472911		2.39	0.102													
V472912		2.23	0.021													
V472913		2.25	0.014													
V472914		2.49	0.020													
V472915		2.47	0.011													
V472916		2.34	0.063	0.09	6.63	71.0	1280	2.89	0.14	5.01	0.08	130.0	27.3	134	3.74	38.0
V472917		2.19	0.019													
V472918		1.98	0.160													
V472919		1.94	0.043													
V472920		0.97	0.222													
V472921		1.02	0.156													
V472922		2.01	0.362													
V472923		2.39	0.255													
V472924		2.40	0.010													
V472925		2.19	0.014													
V472926		2.44	0.018													
V472927		2.32	0.012													
V472928		2.15	0.009													
V472929		2.41	0.262													
V472930		2.19	0.123													
V472931		2.46	0.008	0.10	7.47	41.9	870	2.49	0.17	7.25	0.12	185.5	24.1	137	14.00	43.4
V472932		2.12	0.018													
V472933		2.42	0.007													
V472934		2.02	0.113													
V472935		2.46	0.290													
V472936		0.75	0.004													
V472937		2.14	0.006													
V472938		2.19	0.008													
V472939		2.32	0.006													
V472940		1.98	0.004													
V472941		2.18	0.005													
V472942		2.62	0.006													
V472943		2.53	0.006													
V472944		2.51	0.018													
V472945		1.96	0.011													
V472946		2.05	0.132	0.23	6.88	47.6	1450	2.74	0.23	4.72	0.07	161.5	14.2	61	4.09	25.2
V472947		1.71	0.262													

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To: **MAPLE GOLD MINES LTD.**
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SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 10-MAY-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20089187

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V472911 V472912 V472913 V472914 V472915																
V472916 V472917 V472918 V472919 V472920		4.75	20.1	0.21	3.3	0.031	3.03	46.3	150.0	1.20	836	6.55	3.74	11.7	121.5	1190
V472921 V472922 V472923 V472924 V472925																
V472926 V472927 V472928 V472929 V472930																
V472931 V472932 V472933 V472934 V472935		4.31	19.85	0.25	3.7	0.031	2.79	74.2	108.5	1.66	953	1.19	3.89	17.7	124.5	1430
V472936 V472937 V472938 V472939 V472940																
V472941 V472942 V472943 V472944 V472945																
V472946 V472947		3.55	20.9	0.25	4.6	0.029	4.02	61.4	95.6	1.00	844	2.95	3.61	12.0	48.9	1370

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Finalized Date: 10-MAY-2020
Account: VISAU

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CERTIFICATE OF ANALYSIS VO20089187

Sample Description	Method Analyte Units LOD	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
V472911																
V472912																
V472913																
V472914																
V472915																
V472916		10.6	80.8	0.003	0.13	2.20	8.4	1	0.6	2110	0.36	0.07	4.75	0.321	0.61	1.8
V472917																
V472918																
V472919																
V472920																
V472921																
V472922																
V472923																
V472924																
V472925																
V472926																
V472927																
V472928																
V472929																
V472930																
V472931		22.5	109.0	<0.002	0.11	2.26	9.3	1	0.6	2010	0.38	0.05	7.22	0.360	0.81	2.9
V472932																
V472933																
V472934																
V472935																
V472936																
V472937																
V472938																
V472939																
V472940																
V472941																
V472942																
V472943																
V472944																
V472945																
V472946		19.4	93.4	0.002	0.26	1.83	4.4	1	0.7	2140	0.32	0.08	8.67	0.282	0.67	2.7
V472947																

***** See Appendix Page for comments regarding this certificate *****

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SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 10-MAY-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20089187

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V472911						
V472912						
V472913						
V472914						
V472915						
V472916		118	3.9	13.6	79	157.0
V472917						
V472918						
V472919						
V472920						
V472921						
V472922						
V472923						
V472924						
V472925						
V472926						
V472927						
V472928						
V472929						
V472930						
V472931		107	3.0	17.7	105	179.0
V472932						
V472933						
V472934						
V472935						
V472936						
V472937						
V472938						
V472939						
V472940						
V472941						
V472942						
V472943						
V472944						
V472945						
V472946		91	5.5	18.6	70	238
V472947						

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SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 10-MAY-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20089187

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Val d'Or located at 1324 Rue Turcotte, Val d'Or, QC, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-ICP21	ME-MS61

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To: **MAPLE GOLD MINES LTD.**
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SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 10-MAY-2020
This copy reported on
20-MAY-2020
Account: VISAU

CERTIFICATE VO20089187

Project: DOUAY

P.O. No.: MGM2005

This report is for 157 Drill Core samples submitted to our lab in Val d'Or, QC, Canada on 22-APR-2020.

The following have access to data associated with this certificate:

WEBTRIEVE (AURVISTA) ACCESS	FRED SPEIDEL	EVEN STAVRE

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
SPL-21d	Split sample - duplicate
LOG-21d	Sample logging - ClientBarCode Dup
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
PUL-31d	Pulverize Split - duplicate
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Comments: **Corrected copy for method Au-ICP21**

Signature:

Saa Traxler, General Manager, North Vancouver

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CERTIFICATE OF ANALYSIS VO20089187

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V472791		2.18	0.075	0.79	2.93	95.2	100	2.86	0.24	16.65	0.41	>500	33.6	2	4.08	251
V472792		2.25	0.017													
V472793		1.97	0.092													
V472794		2.12	0.165													
V472795		2.30	0.072													
V472796		2.27	0.383													
V472797		2.24	0.008													
V472798		2.35	0.103													
V472799		2.40	0.036													
V472800		0.07	0.543													
V472801		2.49	0.225													
V472802		2.51	0.017													
V472803		2.62	0.307													
V472804		2.24	0.597													
V472805		2.16	0.027													
V472806		2.10	0.161	0.84	5.25	126.5	80	4.37	0.08	13.10	0.17	>500	29.3	8	8.37	152.5
V472807		2.21	0.044													
V472808		0.07	3.00													
V472809		1.91	0.089													
V472810		2.65	0.498													
V472811		2.37	0.196													
V472812		2.65	0.464													
V472813		2.29	0.544													
V472814		2.68	0.311													
V472815		2.53	0.228													
V472816		2.44	0.011													
V472817		2.23	0.009													
V472818		2.49	0.634													
V472819		2.12	1.485													
V472820		1.69	0.067													
V472821		2.64	0.522	1.47	5.42	203	160	4.95	0.05	11.95	0.42	335	35.5	12	12.15	258
V472822		2.33	0.858													
V472823		2.33	0.131													
V472824		1.13	2.65													
V472825		1.02	1.315													
V472826		2.57	0.378													
V472827		2.23	0.076													
V472828		2.18	0.617													
V472829		2.19	0.151													
V472830		2.20	0.141													

Comments: **Corrected copy for method Au-ICP21**

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CERTIFICATE OF ANALYSIS VO20089187

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V472791 V472792 V472793 V472794 V472795		9.41	18.35	1.53	2.7	0.070	1.74	321	61.2	0.97	1610	0.28	0.60	88.2	5.2	>10000
V472796 V472797 V472798 V472799 V472800																
V472801 V472802 V472803 V472804 V472805																
V472806 V472807 V472808 V472809 V472810		5.84	19.60	0.66	3.5	0.047	2.85	167.5	156.0	3.25	1930	1.55	0.51	27.2	8.4	>10000
V472811 V472812 V472813 V472814 V472815																
V472816 V472817 V472818 V472819 V472820																
V472821 V472822 V472823 V472824 V472825		6.61	19.55	0.44	5.7	0.039	4.70	94.2	115.5	1.57	1740	0.19	0.50	45.2	22.7	>10000
V472826 V472827 V472828 V472829 V472830																

Comments: **Corrected copy for method Au-ICP21**

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ALS Canada Ltd.
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North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 10-MAY-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20089187

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V472791 V472792 V472793 V472794 V472795		16.0	92.7	0.002	1.77	29.2	1.2	2	1.0	2270	7.41	0.37	56.1	0.570	0.31	5.0
V472796 V472797 V472798 V472799 V472800																
V472801 V472802 V472803 V472804 V472805																
V472806 V472807 V472808 V472809 V472810		8.1	136.0	<0.002	1.51	6.83	3.3	2	0.5	1320	1.25	0.64	31.4	0.245	0.53	2.5
V472811 V472812 V472813 V472814 V472815																
V472816 V472817 V472818 V472819 V472820																
V472821 V472822 V472823 V472824 V472825		8.7	260	<0.002	1.76	25.0	3.2	3	0.7	1290	2.22	0.27	22.5	0.369	0.93	2.1
V472826 V472827 V472828 V472829 V472830																

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CERTIFICATE OF ANALYSIS VO20089187

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V472791		511	19.2	78.1	53	278
V472792						
V472793						
V472794						
V472795						
V472796						
V472797						
V472798						
V472799						
V472800						
V472801						
V472802						
V472803						
V472804						
V472805						
V472806		226	5.6	29.2	89	218
V472807						
V472808						
V472809						
V472810						
V472811						
V472812						
V472813						
V472814						
V472815						
V472816						
V472817						
V472818						
V472819						
V472820						
V472821		286	11.5	43.3	75	379
V472822						
V472823						
V472824						
V472825						
V472826						
V472827						
V472828						
V472829						
V472830						

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CERTIFICATE OF ANALYSIS VO20089187

Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V472831		2.16	0.392													
V472832		1.99	0.153													
V472833		2.00	0.328													
V472834		2.15	0.473													
V472835		2.14	0.799													
V472836		2.33	0.843	5.01	6.27	281	330	2.89	0.40	10.55	0.35	342	18.1	11	26.9	228
V472837		2.24	0.049													
V472838		2.27	0.237													
V472839		2.29	0.133													
V472840		0.81	0.004													
V472841		2.18	0.017													
V472842		1.98	0.192													
V472843		1.56	0.007													
V472844		2.17	0.015													
V472845		2.46	0.043													
V472846		2.14	0.190													
V472847		2.49	0.070													
V472848		2.40	0.015													
V472849		2.25	0.316													
V472850		2.41	0.045													
V472851		2.38	0.017	0.08	8.81	371	110	3.69	0.07	11.15	0.11	324	14.5	4	3.51	40.8
V472852		2.62	0.030													
V472853		2.02	0.971													
V472854		1.87	0.978													
V472855		2.05	0.012													
V472856		0.07	0.147													
V472857		1.93	0.012													
V472858		1.96	0.019													
V472859		2.41	0.849													
V472860		2.20	1.215													
V472861		2.18	0.229													
V472862		2.37	0.262													
V472863		2.23	0.014													
V472864		2.39	0.207													
V472865		2.37	0.168													
V472866		2.38	0.041	0.39	7.23	60.8	1020	3.59	0.09	9.95	0.21	117.0	12.5	2	7.83	97.0
V472867		2.37	0.027													
V472868		2.09	0.071													
V472869		2.19	0.173													
V472870		2.35	0.017													

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V472831																
V472832																
V472833																
V472834																
V472835																
V472836		5.44	19.10	0.46	3.9	0.044	6.20	97.8	107.5	2.07	1590	135.5	0.42	32.7	9.2	>10000
V472837																
V472838																
V472839																
V472840																
V472841																
V472842																
V472843																
V472844																
V472845																
V472846																
V472847																
V472848																
V472849																
V472850																
V472851		4.48	24.1	0.39	1.8	0.033	4.14	93.2	115.0	2.15	1530	0.14	0.71	23.7	8.5	>10000
V472852																
V472853																
V472854																
V472855																
V472856																
V472857																
V472858																
V472859																
V472860																
V472861																
V472862																
V472863																
V472864																
V472865																
V472866		2.74	27.1	0.19	3.7	0.014	6.08	36.8	66.6	0.57	705	0.92	0.48	109.5	6.3	2950
V472867																
V472868																
V472869																
V472870																

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CERTIFICATE OF ANALYSIS VO20089187

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V472831																
V472832																
V472833																
V472834																
V472835																
V472836		15.6	376	0.011	2.66	26.4	4.2	3	0.7	1440	1.34	2.57	24.2	0.283	1.54	2.6
V472837																
V472838																
V472839																
V472840																
V472841																
V472842																
V472843																
V472844																
V472845																
V472846																
V472847																
V472848																
V472849																
V472850																
V472851		5.7	179.0	<0.002	0.01	39.1	2.9	1	0.3	1975	0.90	<0.05	19.25	0.153	0.47	1.5
V472852																
V472853																
V472854																
V472855																
V472856																
V472857																
V472858																
V472859																
V472860																
V472861																
V472862																
V472863																
V472864																
V472865																
V472866		5.3	204	<0.002	0.72	2.65	0.9	1	0.4	2310	5.44	0.28	4.10	0.225	1.03	1.2
V472867																
V472868																
V472869																
V472870																

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CERTIFICATE OF ANALYSIS VO20089187

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	V	W	Y	Zn	Zr
	Units	ppm	ppm	ppm	ppm	ppm
	LOD	1	0.1	0.1	2	0.5
V472831						
V472832						
V472833						
V472834						
V472835						
V472836		258	14.8	40.0	77	270
V472837						
V472838						
V472839						
V472840						
V472841						
V472842						
V472843						
V472844						
V472845						
V472846						
V472847						
V472848						
V472849						
V472850						
V472851		166	0.8	14.3	77	107.5
V472852						
V472853						
V472854						
V472855						
V472856						
V472857						
V472858						
V472859						
V472860						
V472861						
V472862						
V472863						
V472864						
V472865						
V472866		132	1.9	9.1	42	233
V472867						
V472868						
V472869						
V472870						

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Sample Description	Method	WEI-21	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu
	Units	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
	LOD	0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
V472871		2.21	0.013													
V472872		2.56	0.009													
V472873		<0.02	0.008													
V472874		2.29	0.372													
V472875		2.30	0.008													
V472876		2.40	0.147													
V472877		2.34	0.309													
V472878		2.38	1.375													
V472879		2.42	0.212													
V472880		2.46	0.215													
V472881		2.17	0.072	0.21	7.38	46.1	1780	2.55	0.41	3.75	0.13	169.5	7.4	23	10.50	16.0
V472882		2.01	0.019													
V472883		1.97	0.445													
V472884		1.93	0.011													
V472885		1.97	1.135													
V472886		1.88	0.133													
V472887		2.09	0.131													
V472888		0.88	0.005													
V472889		2.08	0.035													
V472890		1.79	0.057													
V472891		2.02	0.110													
V472892		1.97	0.004													
V472893		2.19	0.040													
V472894		2.08	0.011													
V472895		2.22	0.022													
V472896		2.45	0.011	0.16	7.25	51.6	1820	4.27	0.32	6.75	0.15	304	19.5	11	12.15	85.7
V472897		2.34	0.004													
V472898		2.37	0.008													
V472899		2.35	0.013													
V472900		2.55	0.011													
V472901		2.34	0.006													
V472902		2.37	0.007													
V472903		2.33	0.006													
V472904		0.07	0.508													
V472905		1.95	0.063													
V472906		2.08	0.259													
V472907		1.88	0.076													
V472908		1.98	0.105													
V472909		2.35	0.009													
V472910		2.36	0.028													

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	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V472871																
V472872																
V472873																
V472874																
V472875																
V472876																
V472877																
V472878																
V472879																
V472880																
V472881		2.34	24.2	0.27	5.1	0.016	5.25	61.2	91.7	0.50	627	11.20	3.78	27.0	15.7	550
V472882																
V472883																
V472884																
V472885																
V472886																
V472887																
V472888																
V472889																
V472890																
V472891																
V472892																
V472893																
V472894																
V472895																
V472896		4.39	21.7	0.36	5.4	0.031	6.08	105.0	179.0	0.93	1220	3.09	1.31	34.9	12.1	2260
V472897																
V472898																
V472899																
V472900																
V472901																
V472902																
V472903																
V472904																
V472905																
V472906																
V472907																
V472908																
V472909																
V472910																

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	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V472871																
V472872																
V472873																
V472874																
V472875																
V472876																
V472877																
V472878																
V472879																
V472880																
V472881		26.3	168.5	0.004	1.10	2.48	2.3	1	0.6	2610	0.56	0.23	11.00	0.224	0.86	3.1
V472882																
V472883																
V472884																
V472885																
V472886																
V472887																
V472888																
V472889																
V472890																
V472891																
V472892																
V472893																
V472894																
V472895																
V472896		28.5	142.5	0.003	0.14	4.33	3.1	1	0.7	3060	0.81	0.09	15.10	0.342	0.96	4.4
V472897																
V472898																
V472899																
V472900																
V472901																
V472902																
V472903																
V472904																
V472905																
V472906																
V472907																
V472908																
V472909																
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To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 10-MAY-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20089187

Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V472871						
V472872						
V472873						
V472874						
V472875						
V472876						
V472877						
V472878						
V472879						
V472880						
V472881		87	5.0	16.0	80	301
V472882						
V472883						
V472884						
V472885						
V472886						
V472887						
V472888						
V472889						
V472890						
V472891						
V472892						
V472893						
V472894						
V472895						
V472896		150	4.9	33.5	136	318
V472897						
V472898						
V472899						
V472900						
V472901						
V472902						
V472903						
V472904						
V472905						
V472906						
V472907						
V472908						
V472909						
V472910						

Comments: **Corrected copy for method Au-ICP21**

***** See Appendix Page for comments regarding this certificate *****

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North Vancouver BC V7H 0A7
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Finalized Date: 10-MAY-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20089187

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg 0.02	Au-ICP21 Au ppm 0.001	ME-MS61 Ag ppm 0.01	ME-MS61 Al % 0.01	ME-MS61 As ppm 0.2	ME-MS61 Ba ppm 10	ME-MS61 Be ppm 0.05	ME-MS61 Bi ppm 0.01	ME-MS61 Ca % 0.01	ME-MS61 Cd ppm 0.02	ME-MS61 Ce ppm 0.01	ME-MS61 Co ppm 0.1	ME-MS61 Cr ppm 1	ME-MS61 Cs ppm 0.05	ME-MS61 Cu ppm 0.2
V472911		2.39	0.102													
V472912		2.23	0.021													
V472913		2.25	0.014													
V472914		2.49	0.020													
V472915		2.47	0.011													
V472916		2.34	0.063	0.09	6.63	71.0	1280	2.89	0.14	5.01	0.08	130.0	27.3	134	3.74	38.0
V472917		2.19	0.019													
V472918		1.98	0.160													
V472919		1.94	0.043													
V472920		0.97	0.222													
V472921		1.02	0.156													
V472922		2.01	0.362													
V472923		2.39	0.255													
V472924		2.40	0.010													
V472925		2.19	0.014													
V472926		2.44	0.018													
V472927		2.32	0.012													
V472928		2.15	0.009													
V472929		2.41	0.262													
V472930		2.19	0.123													
V472931		2.46	0.008	0.10	7.47	41.9	870	2.49	0.17	7.25	0.12	185.5	24.1	137	14.00	43.4
V472932		2.12	0.018													
V472933		2.42	0.007													
V472934		2.02	0.113													
V472935		2.46	0.290													
V472936		0.75	0.004													
V472937		2.14	0.006													
V472938		2.19	0.008													
V472939		2.32	0.006													
V472940		1.98	0.004													
V472941		2.18	0.005													
V472942		2.62	0.006													
V472943		2.53	0.006													
V472944		2.51	0.018													
V472945		1.96	0.011													
V472946		2.05	0.132	0.23	6.88	47.6	1450	2.74	0.23	4.72	0.07	161.5	14.2	61	4.09	25.2
V472947		1.71	0.262													

Comments: **Corrected copy for method Au-ICP21**

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Finalized Date: 10-MAY-2020
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CERTIFICATE OF ANALYSIS VO20089187

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
	Units	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
V472911																
V472912																
V472913																
V472914																
V472915																
V472916		4.75	20.1	0.21	3.3	0.031	3.03	46.3	150.0	1.20	836	6.55	3.74	11.7	121.5	1190
V472917																
V472918																
V472919																
V472920																
V472921																
V472922																
V472923																
V472924																
V472925																
V472926																
V472927																
V472928																
V472929																
V472930																
V472931		4.31	19.85	0.25	3.7	0.031	2.79	74.2	108.5	1.66	953	1.19	3.89	17.7	124.5	1430
V472932																
V472933																
V472934																
V472935																
V472936																
V472937																
V472938																
V472939																
V472940																
V472941																
V472942																
V472943																
V472944																
V472945																
V472946		3.55	20.9	0.25	4.6	0.029	4.02	61.4	95.6	1.00	844	2.95	3.61	12.0	48.9	1370
V472947																

Comments: **Corrected copy for method Au-ICP21**

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
	Units	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
	LOD	0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
V472911																
V472912																
V472913																
V472914																
V472915																
V472916		10.6	80.8	0.003	0.13	2.20	8.4	1	0.6	2110	0.36	0.07	4.75	0.321	0.61	1.8
V472917																
V472918																
V472919																
V472920																
V472921																
V472922																
V472923																
V472924																
V472925																
V472926																
V472927																
V472928																
V472929																
V472930																
V472931		22.5	109.0	<0.002	0.11	2.26	9.3	1	0.6	2010	0.38	0.05	7.22	0.360	0.81	2.9
V472932																
V472933																
V472934																
V472935																
V472936																
V472937																
V472938																
V472939																
V472940																
V472941																
V472942																
V472943																
V472944																
V472945																
V472946		19.4	93.4	0.002	0.26	1.83	4.4	1	0.7	2140	0.32	0.08	8.67	0.282	0.67	2.7
V472947																

Comments: **Corrected copy for method Au-ICP21**

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Sample Description	Method Analyte Units LOD	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
V472911						
V472912						
V472913						
V472914						
V472915						
V472916		118	3.9	13.6	79	157.0
V472917						
V472918						
V472919						
V472920						
V472921						
V472922						
V472923						
V472924						
V472925						
V472926						
V472927						
V472928						
V472929						
V472930						
V472931		107	3.0	17.7	105	179.0
V472932						
V472933						
V472934						
V472935						
V472936						
V472937						
V472938						
V472939						
V472940						
V472941						
V472942						
V472943						
V472944						
V472945						
V472946		91	5.5	18.6	70	238
V472947						

Comments: **Corrected copy for method Au-ICP21**

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Finalized Date: 10-MAY-2020
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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20089187

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

REEs may not be totally soluble in this method.
Applies to Method: ME-MS61

LABORATORY ADDRESSES

Processed at ALS Val d'Or located at 1324 Rue Turcotte, Val d'Or, QC, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-21	LOG-21d
	LOG-23	PUL-31	PUL-31d	PUL-QC
	SPL-21	SPL-21d	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:		
	Au-ICP21	ME-MS61

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TORONTO ON M5H 3W4

Finalized Date: 13-MAY-2020
Account: VISAU

CERTIFICATE VO20089199

Project: DOUAY

P.O. No.: MGM2005

This report is for 166 Drill Core samples submitted to our lab in Val d'Or, QC, Canada on 22-APR-2020.

The following have access to data associated with this certificate:

WEBTRIEVE (AURVISTA) ACCESS	FRED SPEIDEL	EVEN STAVRE

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
SPL-21d	Split sample - duplicate
LOG-21d	Sample logging - ClientBarCode Dup
LOG-21	Sample logging - ClientBarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize up to 250g 85% <75 um
LOG-23	Pulp Login - Rcvd with Barcode
PUL-31d	Pulverize Split - duplicate
WEI-21	Received Sample Weight
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:

Saa Traxler, General Manager, North Vancouver

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CERTIFICATE OF ANALYSIS VO20089199

Sample Description	Method	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
A0102425		0.004														
A0102426		0.006														
A0102427		0.002														
A0102428		0.003														
A0102429		<0.001														
A0102430		0.031														
A0102431		0.004														
A0102432		0.001														
A0102433		0.003														
A0102434		0.002														
A0102435		0.002														
A0102436		0.002														
A0102437		0.002														
A0102438		0.003														
A0102439		0.002														
A0102440		0.002														
A0102441		0.003														
A0102442		0.003														
A0102443		0.011	0.08	6.86	5.9	320	0.77	0.15	10.60	0.12	70.6	40.5	85	0.62	75.5	7.68
A0102444		0.013														
A0102445		0.007														
A0102446		0.006														
A0102447		0.004														
A0102448		0.002														
A0102449		0.010														
A0102450		0.003														
A0102451		0.007														
A0102452		0.007														
A0102453		0.006														
A0102454		0.011														
A0102455		0.003														
A0102456		3.06														
A0102457		0.005														
A0102458		0.004														
A0102459		0.003														
A0102460		0.003														
A0102461		0.005														
A0102462		0.009														
A0102463		0.015	0.07	7.31	5.2	90	0.60	0.14	10.55	0.10	43.4	41.5	81	1.15	72.3	8.25
A0102464		0.019														

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Finalized Date: 13-MAY-2020
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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20089199

Sample Description	Method Analyte Units LOD	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
A0102425																
A0102426																
A0102427																
A0102428																
A0102429																
A0102430																
A0102431																
A0102432																
A0102433																
A0102434																
A0102435																
A0102436																
A0102437																
A0102438																
A0102439																
A0102440																
A0102441																
A0102442																
A0102443		14.50	0.15	1.6	0.066	0.20	43.4	17.4	3.12	2170	1.99	2.77	3.6	52.1	360	17.9
A0102444																
A0102445																
A0102446																
A0102447																
A0102448																
A0102449																
A0102450																
A0102451																
A0102452																
A0102453																
A0102454																
A0102455																
A0102456																
A0102457																
A0102458																
A0102459																
A0102460																
A0102461																
A0102462																
A0102463		16.65	0.14	1.5	0.071	0.34	25.8	34.7	2.93	1960	2.15	2.55	3.1	44.5	350	8.6
A0102464																

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CERTIFICATE OF ANALYSIS VO20089199

Sample Description	Method Analyte Units LOD	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1
A0102425																
A0102426																
A0102427																
A0102428																
A0102429																
A0102430																
A0102431																
A0102432																
A0102433																
A0102434																
A0102435																
A0102436																
A0102437																
A0102438																
A0102439																
A0102440																
A0102441																
A0102442																
A0102443		7.8	<0.002	0.53	0.54	36.5	1	0.5	940	0.14	<0.05	1.19	0.522	0.06	0.5	233
A0102444																
A0102445																
A0102446																
A0102447																
A0102448																
A0102449																
A0102450																
A0102451																
A0102452																
A0102453																
A0102454																
A0102455																
A0102456																
A0102457																
A0102458																
A0102459																
A0102460																
A0102461																
A0102462																
A0102463		17.1	0.002	0.37	0.67	43.0	1	0.5	792	0.13	0.08	0.75	0.525	0.10	0.4	270
A0102464																

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CERTIFICATE OF ANALYSIS VO20089199

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	WEI-21 Recvd Wt. kg 0.02
A0102425						0.73
A0102426						2.87
A0102427						2.11
A0102428						1.71
A0102429						1.53
A0102430						2.07
A0102431						2.63
A0102432						2.47
A0102433						2.52
A0102434						2.34
A0102435						2.70
A0102436						2.46
A0102437						2.55
A0102438						2.25
A0102439						2.33
A0102440						0.99
A0102441						2.36
A0102442						2.49
A0102443		1.7	20.8	128	51.4	2.59
A0102444						2.44
A0102445						2.70
A0102446						2.59
A0102447						2.50
A0102448						2.56
A0102449						2.50
A0102450						2.43
A0102451						2.34
A0102452						2.11
A0102453						2.67
A0102454						2.44
A0102455						2.42
A0102456						0.07
A0102457						2.29
A0102458						2.64
A0102459						2.69
A0102460						2.54
A0102461						2.53
A0102462						2.64
A0102463		1.7	21.4	110	53.7	2.57
A0102464						2.79

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CERTIFICATE OF ANALYSIS VO20089199

Sample Description	Method	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
A0102465		0.037														
A0102466		0.025														
A0102467		0.004														
A0102468		0.010														
A0102469		0.008														
A0102470		0.066														
A0102471		0.017														
A0102472		0.029														
A0102473		0.032														
A0102474		0.036														
A0102475		0.014														
A0102476		0.045														
A0102477		0.006														
A0102478		0.017														
A0102479		0.016														
A0102480		0.034														
A0102481		0.009														
A0102482		0.004	0.04	6.64	4.9	190	1.17	0.16	9.95	0.11	131.5	34.8	70	4.02	76.6	8.00
A0102483		0.002														
A0102484		0.002														
A0102485		0.001														
A0102486		<0.001														
A0102487		<0.001														
A0102488		<0.001														
A0102489		<0.001														
A0102490		0.001														
A0102491		<0.001														
A0102492		<0.001														
A0102493		0.001														
A0102494		<0.001														
A0102495		0.014														
A0102496		0.005														
A0102497		0.027														
A0102498		0.050														
A0102499		0.017														
A0102500		0.003														
V472948		0.211														
V472949		0.058														
V472950		0.009														
V472951		0.007														

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 13-MAY-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20089199

Sample Description	Method Analyte Units LOD	ME-MS61 Ga ppm 0.05	ME-MS61 Ge ppm 0.05	ME-MS61 Hf ppm 0.1	ME-MS61 In ppm 0.005	ME-MS61 K % 0.01	ME-MS61 La ppm 0.5	ME-MS61 Li ppm 0.2	ME-MS61 Mg % 0.01	ME-MS61 Mn ppm 5	ME-MS61 Mo ppm 0.05	ME-MS61 Na % 0.01	ME-MS61 Nb ppm 0.1	ME-MS61 Ni ppm 0.2	ME-MS61 P ppm 10	ME-MS61 Pb ppm 0.5
A0102465																
A0102466																
A0102467																
A0102468																
A0102469																
A0102470																
A0102471																
A0102472																
A0102473																
A0102474																
A0102475																
A0102476																
A0102477																
A0102478																
A0102479																
A0102480																
A0102481																
A0102482		14.85	0.10	2.3	0.059	0.96	78.1	81.4	2.52	1880	2.63	3.03	6.2	44.4	330	9.9
A0102483																
A0102484																
A0102485																
A0102486																
A0102487																
A0102488																
A0102489																
A0102490																
A0102491																
A0102492																
A0102493																
A0102494																
A0102495																
A0102496																
A0102497																
A0102498																
A0102499																
A0102500																
V472948																
V472949																
V472950																
V472951																

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TORONTO ON M5H 3W4

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CERTIFICATE OF ANALYSIS VO20089199

Sample Description	Method / Analyte / Units / LOD	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.01	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1	ME-MS61 V ppm 1
A0102465 A0102466 A0102467 A0102468 A0102469																
A0102470 A0102471 A0102472 A0102473 A0102474																
A0102475 A0102476 A0102477 A0102478 A0102479																
A0102480 A0102481 A0102482 A0102483 A0102484		59.5	0.002	0.36	0.64	38.7	1	0.5	997	0.16	<0.05	4.75	0.480	0.28	1.7	235
A0102485 A0102486 A0102487 A0102488 A0102489																
A0102490 A0102491 A0102492 A0102493 A0102494																
A0102495 A0102496 A0102497 A0102498 A0102499																
A0102500 V472948 V472949 V472950 V472951																

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CERTIFICATE OF ANALYSIS VO20089199

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	WEI-21 Recvd Wt. kg 0.02
A0102465						2.60
A0102466						2.40
A0102467						2.43
A0102468						2.43
A0102469						2.06
A0102470						2.50
A0102471						2.27
A0102472						2.22
A0102473						<0.02
A0102474						2.54
A0102475						2.41
A0102476						2.36
A0102477						2.45
A0102478						2.39
A0102479						2.45
A0102480						2.29
A0102481						2.21
A0102482		1.7	23.6	117	83.5	2.43
A0102483						2.28
A0102484						2.59
A0102485						2.14
A0102486						2.17
A0102487						1.87
A0102488						0.67
A0102489						1.75
A0102490						2.20
A0102491						2.18
A0102492						2.12
A0102493						2.25
A0102494						2.41
A0102495						2.27
A0102496						2.20
A0102497						1.33
A0102498						1.45
A0102499						1.69
A0102500						1.83
V472948						1.51
V472949						2.34
V472950						1.97
V472951						1.72

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CERTIFICATE OF ANALYSIS VO20089199

Sample Description	Method	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
V472952		3.02														
V472953		0.009														
V472954		0.016														
V472955		0.008														
V472956		0.019														
V472957		0.012														
V472958		0.025														
V472959		0.049														
V472960		0.118														
V472961		0.063	0.27	7.35	46.6	1360	3.13	0.15	6.69	0.16	244	20.0	84	10.55	45.0	4.11
V472962		0.038														
V472963		0.045														
V472964		0.077														
V472965		0.667														
V472966		0.201														
V472967		0.062														
V472968		0.016														
V472969		0.013														
V472970		0.010														
V472971		0.008														
V472972		0.005														
V472973		0.010														
V472974		0.193														
V472975		0.007														
V472976		0.028	0.15	7.13	85.2	2280	1.29	0.48	4.72	0.09	309	16.9	14	7.28	37.7	4.49
V472977		0.012														
V472978		0.003														
V472979		0.002														
V472980		0.006														
V472981		0.014														
V472982		0.010														
V472983		0.030														
V472984		0.001														
V472985		0.029														
V472986		0.007														
V472987		0.005														
V472988		0.007														
V472989		0.193														
V473776		0.015														
V473777		0.081														

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 13-MAY-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20089199

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
V472952																
V472953																
V472954																
V472955																
V472956																
V472957																
V472958																
V472959																
V472960																
V472961		18.45	0.22	3.3	0.033	3.95	125.0	189.5	1.36	867	3.96	3.82	18.7	72.1	1670	15.0
V472962																
V472963																
V472964																
V472965																
V472966																
V472967																
V472968																
V472969																
V472970																
V472971																
V472972																
V472973																
V472974																
V472975																
V472976		16.80	0.32	5.8	0.029	4.83	130.0	62.5	0.98	761	1.48	1.90	58.2	21.0	2310	28.7
V472977																
V472978																
V472979																
V472980																
V472981																
V472982																
V472983																
V472984																
V472985																
V472986																
V472987																
V472988																
V472989																
V473776																
V473777																

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CERTIFICATE OF ANALYSIS VO20089199

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
V472952																
V472953																
V472954																
V472955																
V472956																
V472957																
V472958																
V472959																
V472960																
V472961		140.5	0.004	0.36	1.95	6.8	<1	0.6	2380	0.60	0.09	7.19	0.357	1.05	2.2	121
V472962																
V472963																
V472964																
V472965																
V472966																
V472967																
V472968																
V472969																
V472970																
V472971																
V472972																
V472973																
V472974																
V472975																
V472976		77.6	<0.002	0.90	1.67	3.5	1	0.8	3610	1.25	0.12	11.40	0.579	0.85	4.2	156
V472977																
V472978																
V472979																
V472980																
V472981																
V472982																
V472983																
V472984																
V472985																
V472986																
V472987																
V472988																
V472989																
V473776																
V473777																

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2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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CERTIFICATE OF ANALYSIS VO20089199

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	WEI-21 Recvd Wt. kg 0.02
V472952						0.07
V472953						2.24
V472954						1.94
V472955						1.97
V472956						2.27
V472957						2.28
V472958						2.01
V472959						2.19
V472960						2.21
V472961		3.5	20.2	139	163.0	2.11
V472962						2.10
V472963						2.21
V472964						2.24
V472965						2.30
V472966						2.08
V472967						2.28
V472968						2.01
V472969						<0.02
V472970						2.03
V472971						1.99
V472972						1.85
V472973						1.96
V472974						1.96
V472975						1.97
V472976		4.6	35.8	88	312	1.95
V472977						1.63
V472978						1.51
V472979						1.81
V472980						2.09
V472981						1.81
V472982						2.14
V472983						1.94
V472984						0.75
V472985						2.06
V472986						2.08
V472987						2.08
V472988						2.05
V472989						2.22
V473776						1.35
V473777						1.94

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CERTIFICATE OF ANALYSIS VO20089199

Sample Description	Method	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
V473778		0.447														
V473779		0.012														
V473780		0.020														
V473781		0.355														
V473782		0.027														
V473783		0.009														
V473784		0.001														
V473785		0.059														
V473786		0.191														
V473787		0.014														
V473788		0.014														
V473789		0.020														
V473790		0.030														
V473791		0.035	0.61	6.48	17.5	1480	4.86	0.61	2.99	0.07	66.8	7.4	28	6.02	32.6	2.12
V473792		0.034														
V473793		0.048														
V473794		0.227														
V473795		0.029														
V473796		0.169														
V473797		0.167														
V473798		0.043														
V473799		0.069														
V473800		0.502														
V473801		0.287														
V473802		0.061														
V473803		0.044														
V473804		0.017														
V473805		0.025														
V473806		0.051	0.16	6.58	25.4	940	4.28	0.23	8.12	0.12	320	10.7	38	7.16	32.1	4.31
V473807		0.084														
V473808		2.98														
V473809		0.430														
V473810		0.004														
V473811		0.039														
V473812		0.810														
V473813		0.090														
V473814		0.045														
V473815		0.387														
V473816		0.136														
V473817		0.011														

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North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
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SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 13-MAY-2020
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Project: DOUAY

CERTIFICATE OF ANALYSIS VO20089199

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
V473778 V473779 V473780 V473781 V473782																
V473783 V473784 V473785 V473786 V473787																
V473788 V473789 V473790 V473791 V473792		21.2	0.14	2.1	0.018	4.90	25.7	112.0	0.89	519	0.34	1.76	23.3	25.4	730	8.6
V473793 V473794 V473795 V473796 V473797																
V473798 V473799 V473800 V473801 V473802																
V473803 V473804 V473805 V473806 V473807		23.2	0.39	3.8	0.032	4.90	116.0	105.0	1.54	1220	0.52	0.88	35.3	20.0	8920	9.5
V473808 V473809 V473810 V473811 V473812																
V473813 V473814 V473815 V473816 V473817																

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Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
V473778																
V473779																
V473780																
V473781																
V473782																
V473783																
V473784																
V473785																
V473786																
V473787																
V473788																
V473789																
V473790																
V473791		132.5	<0.002	0.09	9.02	2.2	<1	0.4	536	0.63	0.08	6.91	0.213	0.99	0.8	55
V473792																
V473793																
V473794																
V473795																
V473796																
V473797																
V473798																
V473799																
V473800																
V473801																
V473802																
V473803																
V473804																
V473805																
V473806		221	0.002	0.36	2.90	4.9	1	0.6	1320	1.32	0.07	25.5	0.279	0.81	1.6	218
V473807																
V473808																
V473809																
V473810																
V473811																
V473812																
V473813																
V473814																
V473815																
V473816																
V473817																

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218
www.alsglobal.com/geochemistry

To: **MAPLE GOLD MINES LTD.**
1 RICHMOND STREET WEST
SUITE 701
TORONTO ON M5H 3W4

Finalized Date: 13-MAY-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20089199

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	WEI-21 Recvd Wt. kg 0.02
V473778						1.86
V473779						1.97
V473780						2.09
V473781						2.09
V473782						2.16
V473783						2.87
V473784						0.72
V473785						2.35
V473786						2.30
V473787						2.28
V473788						2.28
V473789						2.37
V473790						2.52
V473791		10.8	9.9	96	110.5	2.37
V473792						2.35
V473793						2.54
V473794						2.32
V473795						2.43
V473796						2.33
V473797						2.38
V473798						1.89
V473799						3.11
V473800						0.07
V473801						2.50
V473802						2.41
V473803						2.49
V473804						2.51
V473805						2.54
V473806		5.4	40.8	60	229	2.27
V473807						2.68
V473808						0.07
V473809						2.54
V473810						2.21
V473811						2.76
V473812						2.44
V473813						2.32
V473814						2.43
V473815						2.54
V473816						2.45
V473817						2.47

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Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20089199

Sample Description	Method	Au-ICP21	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Fe
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%
	LOD	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
V473818		0.006														
V473819		0.106														
V473820		0.121														
V473821		0.013	0.18	5.76	35.0	490	4.09	0.07	10.45	0.13	393	16.9	65	26.5	67.9	5.03
V473822		0.009														
V473823		0.021														

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Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20089199

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
	Units	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
	LOD	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
V473818																
V473819																
V473820																
V473821		18.25	0.38	3.1	0.046	4.89	142.0	113.0	2.65	1800	1.07	0.90	42.0	24.1	>10000	7.6
V473822																
V473823																

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CERTIFICATE OF ANALYSIS VO20089199

Sample Description	Method	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61
	Analyte	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
	Units	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	LOD	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
V473818																
V473819																
V473820																
V473821		262	0.002	0.45	2.74	5.4	1	0.4	1245	1.55	0.06	19.55	0.224	0.88	1.6	224
V473822																
V473823																

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Finalized Date: 13-MAY-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20089199

Sample Description	Method Analyte Units LOD	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5	WEI-21 Recvd Wt. kg 0.02
V473818						2.45
V473819						2.52
V473820						2.44
V473821		4.8	20.2	102	204	2.28
V473822						2.73
V473823						1.66

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Finalized Date: 13-MAY-2020
Account: VISAU

Project: DOUAY

CERTIFICATE OF ANALYSIS VO20089199

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: REEs may not be totally soluble in this method.
ME-MS61

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Val d'Or located at 1324 Rue Turcotte, Val d'Or, QC, Canada.

CRU-31	CRU-QC	LOG-21	LOG-21d
LOG-23	PUL-31	PUL-31d	PUL-QC
SPL-21	SPL-21d	WEI-21	

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Au-ICP21	ME-MS61

Assessment Report for the Douay Property

Winter 2020 Diamond Drilling Program

Douay Township, Quebec

Volume 5 of 5
Appendix 6: Cross Sections

Map sheets: NTS 32E09, 32E10
Latitude 49.51°N, Longitude 78.32°W
UTM NAD83 Zone 17: 5487450 N, 694100 E

For

Maple Gold Mines Ltd.
1111 West Hastings Street
Vancouver, British Columbia
V6E 2J3

Report Date: January 12, 2022

APPENDIX 6: CROSS SECTIONS WITH INDEX TABLES (VOLUME 5)

List of drillholes by cross section (50 m windows)

Section*	Hole ID	Zone	Section*	Hole ID	Zone
704600E	DO-20-274	Nika West	707800E	DO-20-273	Porphyry East (10)
704800E	DO-20-272	Northwest	708000E	DO-20-277	Porphyry East (10)
704800E	DO-20-272A	Northwest	707800E	DO-20-278	Porphyry East
705200E	DO-20-275	Nika	707900E	DO-20-276	Porphyry East (10)
705300E	DO-20-279	Nika	708900E	DO-20-271	531
705300E	DO-20-282	Nika	709000E	DO-20-262X	531
705900E	DO-20-280	Porphyry West	709000E	DO-20-269	531
705900E	DO-20-281	Porphyry West	709100E	DO-20-270	531
706000E	DO-20-283	Porphyry West			

*Section on which drillhole was collared

List of sections by drillhole (50 m windows)

Hole ID	Section*	Zone	Hole ID	Section*	Zone
DO-20-262X	709000E	531	DO-20-276	707900E	Porphyry East (10)
DO-20-269	709000E	531	DO-20-277	708000E	Porphyry East (10)
DO-20-270	709100E	531	DO-20-278	707800E	Porphyry East
DO-20-271	708900E	531	DO-20-279	705300E	Nika
DO-20-272	704800E	Northwest	DO-20-280	705900E	Porphyry West
DO-20-272A	704800E	Northwest	DO-20-281	705900E	Porphyry West
DO-20-273	707800E	Porphyry East (10)	DO-20-282	705300E	Nika
DO-20-274	704600E	Nika West	DO-20-283	706000E	Porphyry West
DO-20-275	705200E	Nika			

*Section on which drillhole was collared