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Argyle Resources Corp.

Work Report

2025 Diamond Drilling on the Clay-Howells Property

Clay Township, Ontario (Canada)

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November 2025

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LAURENTIA



EXPLORATION

SUMMARY

This report summarizes the diamond drilling campaign conducted by *Laurentia Exploration Inc.* on behalf of *Argyle Resources Corp.* on their Clay-Howells property. The property is located in the Clay Township (Northern Ontario, Canada), 52 kilometres north-north-east of the city of Kapuskasing. The property overlies the Clay-Howells Alkali Rock Complex, dominantly syenitic, and extends over its metasedimentary host rocks to the south-east.

A drilling program consisting of seven (7) BTW diamond drill holes totalling 1,983 m was completed using a heliportable drill rig. The drilling targeted magnetic highs surrounding a known magnetite-rich carbonatite REE deposit located just outside the property (Clay-Howells deposit).

Field work including mobilization and demobilization spanned from 2025-09-10 to 2025-10-08. Drilling started on 2025-09-14 and ended on 2025-10-05. Logging started on 2025-09-15 and ended on 2025-10-06. Drilling permit No PR-25-000130 was issued on 2025-09-02. Coordinates in this report are given in UTM NAD83 Zone 17N.

Frédéric Massei (P.Geo.) and Julien Huguet (P.Eng.) acted as project managers for Laurentia under the supervision of Jerome Augustin (P.Geo.) and Hugues Guérin-Tremblay (P.Geo.). They were assisted by Batyste Perrin (GIT) and Philippe Hautcoeur (technician).

A total of 49 samples returned $>0.17\%$ TREO, the threshold for REE showings defined by the MRNF. Among them, 20 samples exceeded 0.30% TREO and 6 exceeded 0.50% TREO, with a maximum grade of 0.76% TREO over 0.60 m.

Two significant magnetite-bearing carbonatite intercepts were identified, returning up to 0.34% TREO over metre-scale intervals, with broader composites between 0.16% and 0.28% TREO over 15–17 m. Additional REE-bearing intervals were intersected in syenite affected by fluorite, amphibole–magnetite aggregates, or Ca–Na–Si alteration zones.

Magnetic highs are primarily explained by disseminated magnetite and, locally, by narrow equigranular whitish carbonatite laced with magnetite.

Based on these observations and results, Laurentia recommends to: 1) Drill along the continuity of the carbonatites found during this campaign toward the known deposit located outside Argyle's property claims; 2) Test other anomalies, prioritizing those closest to the Clay-Howells deposit; 3) Conduct a radiometric survey over the property to potentially highlight new anomalies; 4) Contact the owner of the mining land tenure holding the deposit, as it appears not to have been worked since 2011, a development agreement could be negotiated.

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LIST OF ABBREVIATIONS

TREO: Total Rare Earth elements expressed as oxide. Sums of lanthanide: lanthanum, cerium, praseodymium, neodymium, promethium, samarium, europium, gadolinium, terbium, dysprosium, holmium, erbium, thulium, ytterbium, lutetium.

1 INTRODUCTION

The Clay-Howells property is located in the Clay Township (Northern Ontario, Canada), 52 kilometres north-north-east of the city of Kapuskasing. The property is accessible by old logging roads and ATV trails while some parts are only accessible by boat or helicopter. It consists of 11 mining claims that cover 31.06 km² and that are optioned by Argyle since April 2025 from *Gravel Ridge Resources Ltd., Perry Vern English and B Watson*.

The property sits on the Clay-Howells Alkali Rock Complex, mostly syenitic in nature and over its metasediment host rocks to the south-east. A magnetite-rich and REE-rich carbonatite intrusion sits in the middle of the property, outside Argyle's claims.

In fall 2025, *Laurentia Exploration Inc.* (Laurentia), on behalf of *Argyle Resources Corp.* (Argyle), conducted diamond drilling on the Clay-Howells property. The aim was to probe magnetic anomalies in order to discover new Nb and REE associated to magnetite-laced carbonatite.

This report describes the 2025 works carried out on the Clay-Howells. **Section 2** is devoted to the project terms and reference. **Section 3** provides details on the project location and mining titles. A compilation of past exploration is presented in **Section 4**. A brief review of the geological background is provided in **Section 5**. Logistical and technical aspects of the drilling work are presented in **Section 6**, while observations, analysis results and interpretations are stated in **Section 7**. Finally, **Section 8** is devoted to conclusions and recommendations.

2 TERMS OF REFERENCE

Laurentia Exploration Inc. (Laurentia) was appointed by *Argyle Resources Corp.* (Argyle) to plan, oversee and manage the results of a diamond drilling campaign. This report has been produced at the request of Jeff Stevens CEO and Director of Argyle. It was authored by Julien Huguet (Eng.). The author is duly registered with a professional order.

Frédéric Massei (P.Geo.) and Julien Huguet (P.Eng.) acted as project managers for Laurentia under the supervision of Jerome Augustin (P.Geo.) and Hugues Guérin-Tremblay (P.Geo.). They were assisted by Batyste Perrin (GIT) and Philippe Hautcoeur (technician).

This report has been fully prepared and authored by Laurentia in accordance with the requirements of the *Ministry of energy and Mines* for technical work assessment. It is **not** written in accordance with the National Instrument 43-101.

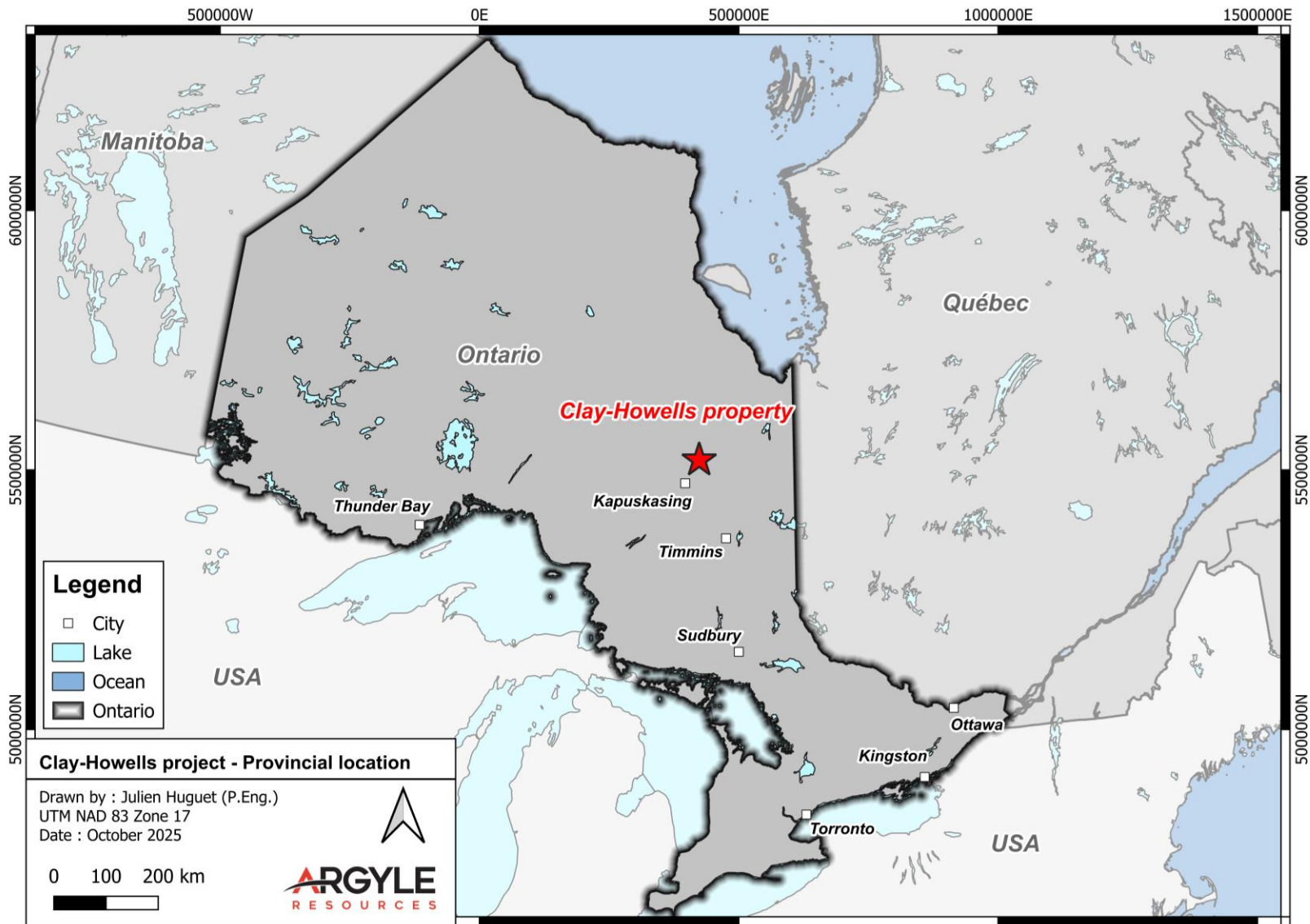


Figure 1: Provincial location of the Clay-Howells property

3 PROPERTY DETAILS

3.1 Project Location and Access

The Clay-Howells property is located in the Clay, Hopkins, Howells and Mowbray Townships (Northern Ontario, Porcupine mining division, Canada), 52 kilometres north-north-east of the city of Kapuskasing. Most of the property is accessible by gravel, old logging roads and ATV trails while some parts are only accessible by boat or helicopter (**Figure 1, Figure 2**).

3.2 Claim Status

The Clay-Howells property consists of 11 mining claims (single or multi cell) that cover 31.06 km² (3,106 hectares). Ten (10) claims have been optioned to Argyle since April 2025 by *Gravel Ridge Resources Ltd.* and *Perry Vern English (Table 1)*. One (1) is optioned to *B Weston*.

Table 1: Claims owners of the Clay-Howells property

Claim	Type	Start	Expire	Holder (%)	Surface (ha)
763275	MCMC	2022-11-30	2025-11-30	Perry Vern English (50), Gravel Ridge Resources Ltd. (50)	451.04
763276	MCMC	2022-11-30	2025-11-30	Perry Vern English (50), Gravel Ridge Resources Ltd. (50)	416.84
763277	MCMC	2022-11-30	2025-11-30	Perry Vern English (50), Gravel Ridge Resources Ltd. (50)	437.74
763278	MCMC	2022-11-30	2025-11-30	Perry Vern English (50), Gravel Ridge Resources Ltd. (50)	436.49
763279	MCMC	2022-11-30	2025-11-30	Perry Vern English (50), Gravel Ridge Resources Ltd. (50)	301.04
777421	MCMC	2023-01-25	2026-01-25	Perry Vern English (50), Gravel Ridge Resources Ltd. (50)	417.10
966295	SCMC	2025-10-14	2027-10-14	B Weston (100)	20.85
920993	MCMC	2025-01-24	2027-01-24	Perry Vern English (50), Gravel Ridge Resources Ltd. (50)	416.88
920995	SCMC	2025-01-24	2027-01-24	Perry Vern English (50), Gravel Ridge Resources Ltd. (50)	20.85
920994	MCMC	2025-01-24	2027-01-24	Perry Vern English (50), Gravel Ridge Resources Ltd. (50)	166.63
920996	SCMC	2025-01-24	2027-01-24	Perry Vern English (50), Gravel Ridge Resources Ltd. (50)	20.83
<i>MCMC: Multi-cell Mining Claim / SCMC: Single-cell Mining Claim</i>					3,106

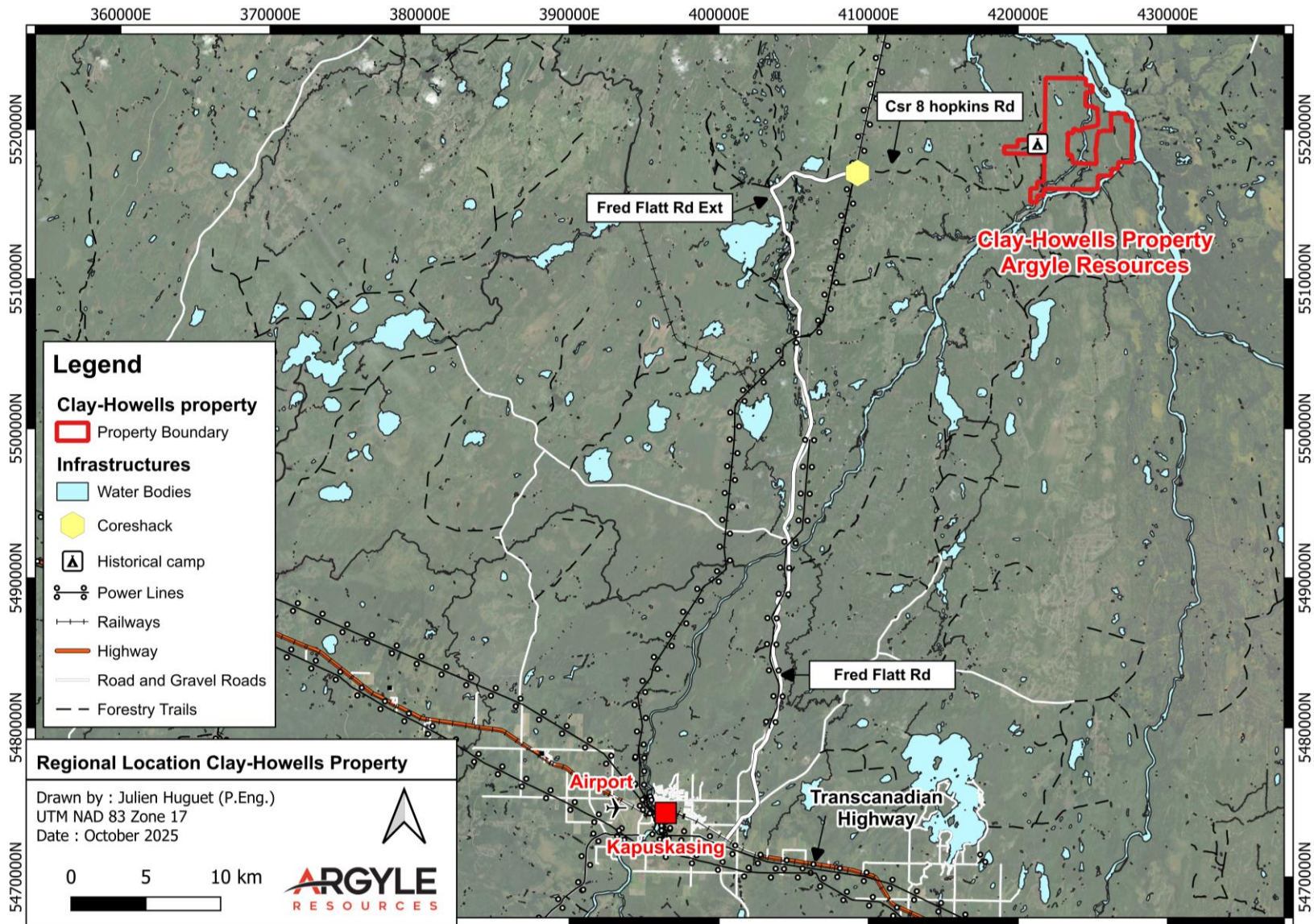


Figure 2: Regional location and property access

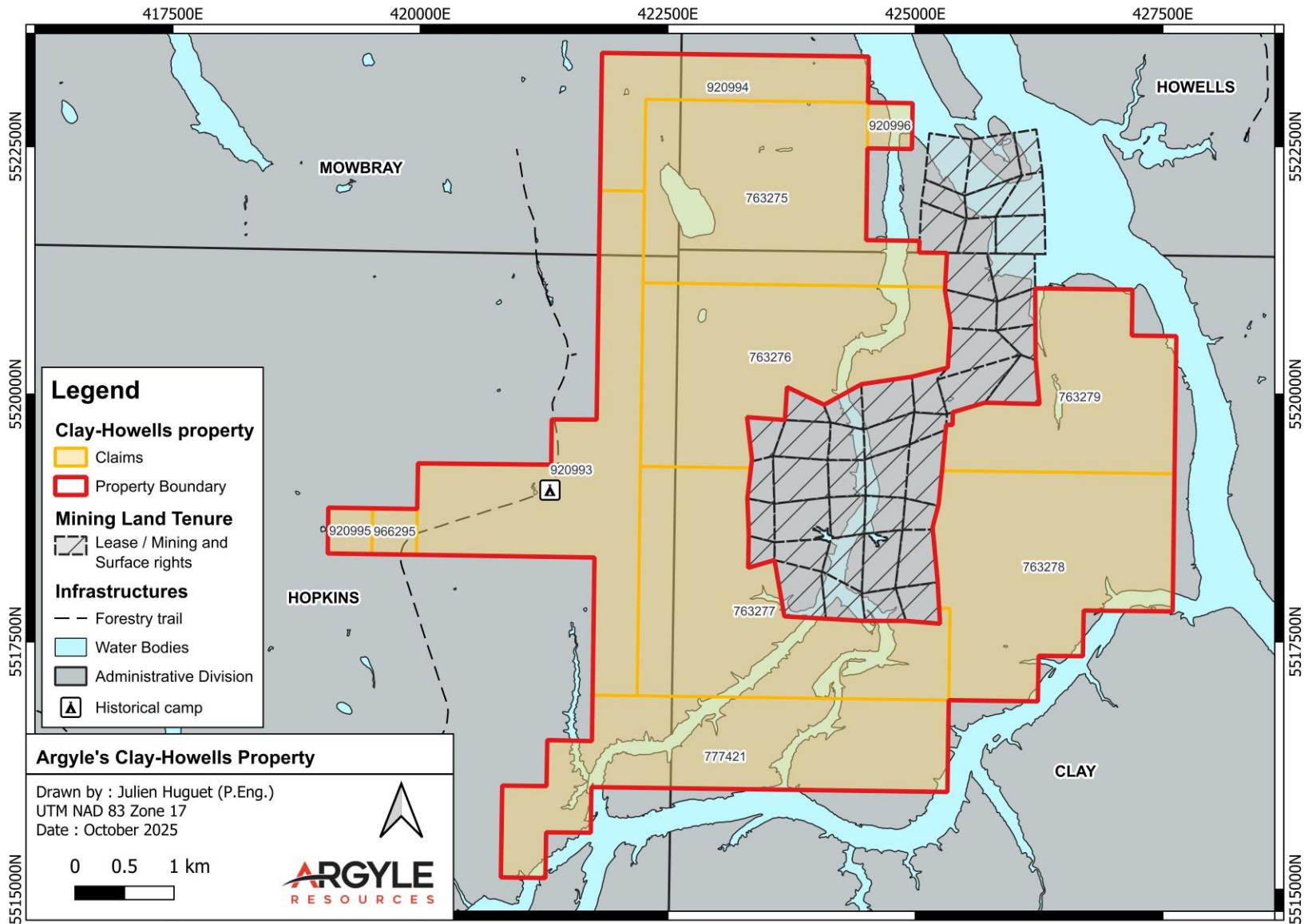


Figure 3: Claims map of the Clay-Howells property

3.2.1 Infrastructure and Accessibility

The property is partially accessible via a network of gravel roads and forestry trails branching from the Trans-Canada Highway near the town of Kapuskasing (**Figure 2**). The main access route heads north along Fred Flatt Road and Fred Flatt Road Extension, which should be followed to approximately kilometre 47, where it intersects with Csr 7 Guilfoyle Road. From this point, the route continues east for about 6 kilometres to an intersection located between a hydro line and gravel road servicing the Adam Creek Control Dam to the north and a logging trail, labelled Csr 8 Hopkins Road, which extends eastward toward the property. The eastern part of the property is only accessible by boat or helicopter due to the absence of bridge crossing the river.

Due to poor road maintenance Csr 8 Hopkins Road is no longer accessible via pickup truck. A mobile core shack was installed at the junction between Csr 7 Guilfoyle Road, the gravel road heading north servicing the Adam Creek Control Dam and Csr 8 Hopkins Road. For the purpose of the drilling campaign access to the property was granted by Helicopter. That site was also used for servicing fuel to the drill site and other consumables.

An old camp is located at UTM coordinates 4213982E and 5522864N (UTM NAD 83 Zone 17) on the Clay-Howells property and was used during 2010 and 2011 drilling campaigns. Part of the core from these campaigns is still on site (**Figure 3**).

Relief over the property is generally flat, with elevation variations of less than 10 metres. The land consists mainly of flat terrain covered by mixed forest and swampy areas.

4 PAST EXPLORATION WORK

The following section summarizes past exploration work conducted within or near the boundaries of the Clay-Howells property. Most of the information presented is derived from one of the following sources: 1) geological reports published by the Ontario Geological Survey (Milne et al., 1977; Sage, 1988), which provides detailed descriptions of earlier exploration activities and comprehensive lithological information for the Clay-Howells Alkalic Rock Complex; 2) the assessment report (20000007668) prepared by *Rare Earth Metals Inc.* and released in 2011; and 3) a NI 43-101 technical report prepared by *Tetra Tech Wardrop* in 2011 (Daigle, 2011), which includes a summary of the known mineralization and resource estimate.

According to the Ontario Geological Survey database, 29 assessment reports have been filled for this area (property and within the Clay-Howells Alkalic Rock Complex) since the 1950's by the following company: 1) Mattagami Mining Co. Ltd. (1955-1957 – Diamond drilling); 2) J.A. McGuire and Associates (1955 – Magnetic and magnetometer survey); 3) Chibougamau Mining and Smelting Co. Inc. (1957 – Diamond drilling/Magnetic and magnetometer surveys); 4) Bewabik Minerals Ltd (1958 – Diamond drilling); 5) Argor Exploration Ltd (1966 – Diamond drilling); and 6) Rare Earth Metals Inc. (2009–2011 – Airborne magnetometer, radiometric surveys, and diamond drilling).

7.1 Historical Work

In 1955, four (4) magnetic ground surveys were acquired *ACME Geophysics Exploration Ltd.* on behalf of *Huclif Porcupine Mines Ltd.* (42G16SE8030) in the southern and eastern part of the property and on behalf of *J.A. McGuire Associated* (42G16NE0002) in the northern part of the property. Surveys failed to highlight anomalies of interest, and no subsequent work was done.

Chibougamau Mining and Smelting Co. Inc. (1957) conducted ground magnetometer surveys and eight diamond drill holes totaling 1,516 m on the Spencer and Bradley options along the east and southeast flanks of the complex. Minor magnetite concentrations were reported, mostly within syenitic rocks (42G16SE8001; 42H13SW0002; 42H13SW0001; 42G16SE8009; 42G16SE8004; 42G16SE8003; 42G16SE8004; 42G16SE8010; 42G16SE8012). One (1) drill hole (1954-04) drilled close to the syenite/gneiss contact in the south-eastern part of the property returned significant magnetite content (Chibougamau-Bradley Iron occurrence).

Bewabik Minerals Ltd. (1958) completed two drill holes totaling 827 m on claim S-78793 now mining cell 763276, identifying minor magnetite mineralization (42G16SE8005). The claim later became part of the Mattagami Mining Co. Ltd. holdings.

Mattagami Mining Co. Ltd. (1958) conducted a ground magnetometer survey and 4,539 m of diamond drilling over an aeromagnetic anomaly first identified by Lundberg Explorations in 1954. Drilling outlined a northeast-trending carbonatite body approximately 1,050 m long and 90 m wide, dipping 60° NW, composed of 10 to 80% magnetite and estimated to contain about 10 million tonnes of mineralization. The magnetite is largely non-titaniferous but contains minor ilmenite lamellae and traces of niobium (in pyrochlore). Minor anomalous concentrations of tin, zinc, and molybdenum were also reported. Following this discovery, the company patented the claims covering the magnetite deposit (42G16SE8002; 42G16SE8011; 42G16SE8006).

Argor Explorations Ltd. (1966) drilled one 153 m deep diamond drill hole on a geophysical anomaly northwest of the property on the eastern border of the Clay-Howells Alkalic Rock Complex, along the syenite–gneiss contact. It intersected disseminated to massive sulphides (pyrite and pyrrhotite) within paragneiss (42G16NE0003).

7.2 Recent Work by Rare Earth Metals Inc. (2009–2011)

In 2009, *Rare Earth Metals Inc.* acquired the patented rights surrounding the Clay-Howells carbonatite body after completing a due diligence program that included re-sampling of historical drill core stored at the Ministry of Northern Development and Mines facility in Timmins, Ontario. Two (2) airborne magnetometer and radiometric surveys were flown over the property (20000006961), one in 2009 by Fugro (plane) and the other in 2010 by Aeroquest (helicopter). These surveys were flown to identify additional magnetite-bearing carbonatite bodies and/or radiometric anomalies with the potential to host rare earth element mineralization.

From January to March 2010, the company conducted a diamond drilling program on the main carbonatite body, completing 5,432.5 m in 18 holes and collecting 1,825 samples (20000007668).

In 2011, a second drilling campaign was completed, consisting of eight holes totaling 2,154.5 m and 235 samples (20000007676).

Data from the 2010 and 2011 drilling programs were used to prepare a NI 43-101 technical report written by Tetra Tech Wardrop (Daigle, 2011, **Figure 4**). The mineral resource estimate for the Clay-Howells Fe-REE deposit, effective September 23, 2011, is as follows (**Table 2**):

Table 2: Resource estimate as per 2011 Ni-43-101 (Daigle, 2011)

Classification	Tonnage (Mt)	Fe ₂ O ₃ (%)	TREO (%)	Cut-off (%)	LREO%	HREO%
Inferred	8.50	44.15	0.73	0.60 TREO	0.66	0.71

The resources estimate was calculated using an Ordinary Kriging interpolation method for 15 rare earth oxides (REOs) and four associated metal oxides (Fe₂O₃, Nb₂O₅, MnO, and ThO₂). TREO, LREO, and HREO represent the sums of individual interpolations of the REOs (Daigle, 2011). Here HREO includes Yttrium.

5 GEOLOGICAL BACKGROUND

Geological background as detailed in the sections below comes entirely from Milne *et al.*, 1977 and Sage, 1988 and subsequent reports. Additional information is provided in the 2011 Ni 43-101 (Daigle, 2011).

5.1 Regional Geology

The Clay-Howells Alkalic Rock Complex is located within the Kapuskasing Subprovince of the Superior Province in the Canadian Shield (**Figure 4**). The intrusion is interpreted as a mushroom-shaped body in vertical cross-section, likely fed by dikes emplaced along faults associated with the Kapuskasing structural zone.

The complex is dominated by pyroxene syenite, which intrudes a sequence of paragneisses and orthogneisses regionally metamorphosed to upper amphibolite to granulite facies, typical of the Kapuskasing Subprovince. Aeromagnetic data suggest that the complex is composite in nature, formed by several pulses of syenitic magma (likely 3). Two main syenite types are recognized: 1) a centrally located coarse-grained, grey green to green syenite and 2) a red brown, xenolithic syenite along the margins, variable in texture and enriched in biotite toward the centre. An age of 1,072 ± 16 Ma was obtained from Rb/Sr whole-rock isotopic datation (Bell and Blenkinsop, 1980).

In the southeastern portion of the complex, a dike-like magnetite-bearing carbonatite intrudes the syenite. The carbonatite body, firstly drilled and outlined by Mattagami Mining Company Ltd, strikes northeast, measures approximately 1,050 m in length, 90 m in width, and dips 60° northwest. It contains 10 to 80% magnetite and is estimated to host ~10 million tonnes of mineralized material (Shklanka, 1968). Additional work conducted by Rare Earth Metals Inc in 2010 and 2011 helped in better defining its geometry.

The silico-carbonatite consists of 0 to 50% biotite, 10 to 80% magnetite, 20 to 55% carbonate, 10 to 20% aegirine-augite, and ~5% apatite (Sage, 1988). Geochemical and mineralogical data indicate enrichment in light Rare Earth Elements (LREEs especially Ce and La), Niobium (Nb), and notable concentrations of Yttrium (Y) and heavy rare earth elements (HREEs). The associated ferro-carbonatite locally evolved into a magnetite-rich calcio carbonatite.

Structural evidence is limited due to poor outcrop exposure, and the syenite shows little deformation of the surrounding gneisses. The carbonatite appears to be late, locally discordant, and unrelated to the emplacement of the syenite. Current interpretations suggest that the carbonatite was

fortuitously intruded into the syenite, with no direct genetic relationship between the two magmatic events (Sage, 1988).

5.2 Property Geology

Argyle's Clay-Howells property mainly sits on rocks belonging to the Clay-Howells Alkalic Rock Complex and overlaps the contact with paragneiss to the south and east. The property doesn't include the Clay-Howells Fe-REE deposit (**Figure 5**).

5.3 Mineralization

The best-known mineralization type to be hosted by the Clay-Howells Alkalic Rock Complex is the Clay-Howells Fe-REE deposit located in the middle of the property but outside of Argyle's claims.

The Clay-Howells Fe-REE deposit hosts a complex assemblage of rare earth element (REE)-bearing minerals. The main REE phases are a Ce-La-Ca silicate and monazite (or monazite-like phosphate minerals). Mineral assemblage of the syenitic units is dominated by magnetite and Mn-bearing magnetite, with lesser amounts of augite, biotite, actinolite, and Fe-rich clays (Daigle, 2011).

Interpretation of the Clay-Howells deposit is complex, reflecting multiple phases of mineralization, either syn-genetic or post-genetic. Two distinct carbonatite units were identified on the drill sections, but the relationships among the other lithologies are more ambiguous due to structural complexity. Two cross-cutting faults, one to the northeast and one to the southwest of the deposit core, disrupt the continuity of both the carbonatite and mineralized syenite units. Additional carbonatite occurrences to the west and northeast were identified, but analytical data are insufficient to distinct domains (Daigle, 2011).

5.4 Known Mineralized Occurrences in the Property

One (1) known mineralized occurrence is located in the south-eastern part of the property close to the theoretical contact between the Clay-Howells Alkalic Complex and hosting gneiss (42G16SE8003). The Chibougamau-Bradley Iron occurrence is defined by drill hole 1957-04 drilled vertically to 310.90 m. It encountered stringers of magnetite in alternating zones of syenite and diorite. Best averaged intersection was 15.76% Fe (magnetic) over 31.20 m (**Figure 5**). No follow-up work was done on that mineralized occurrence.

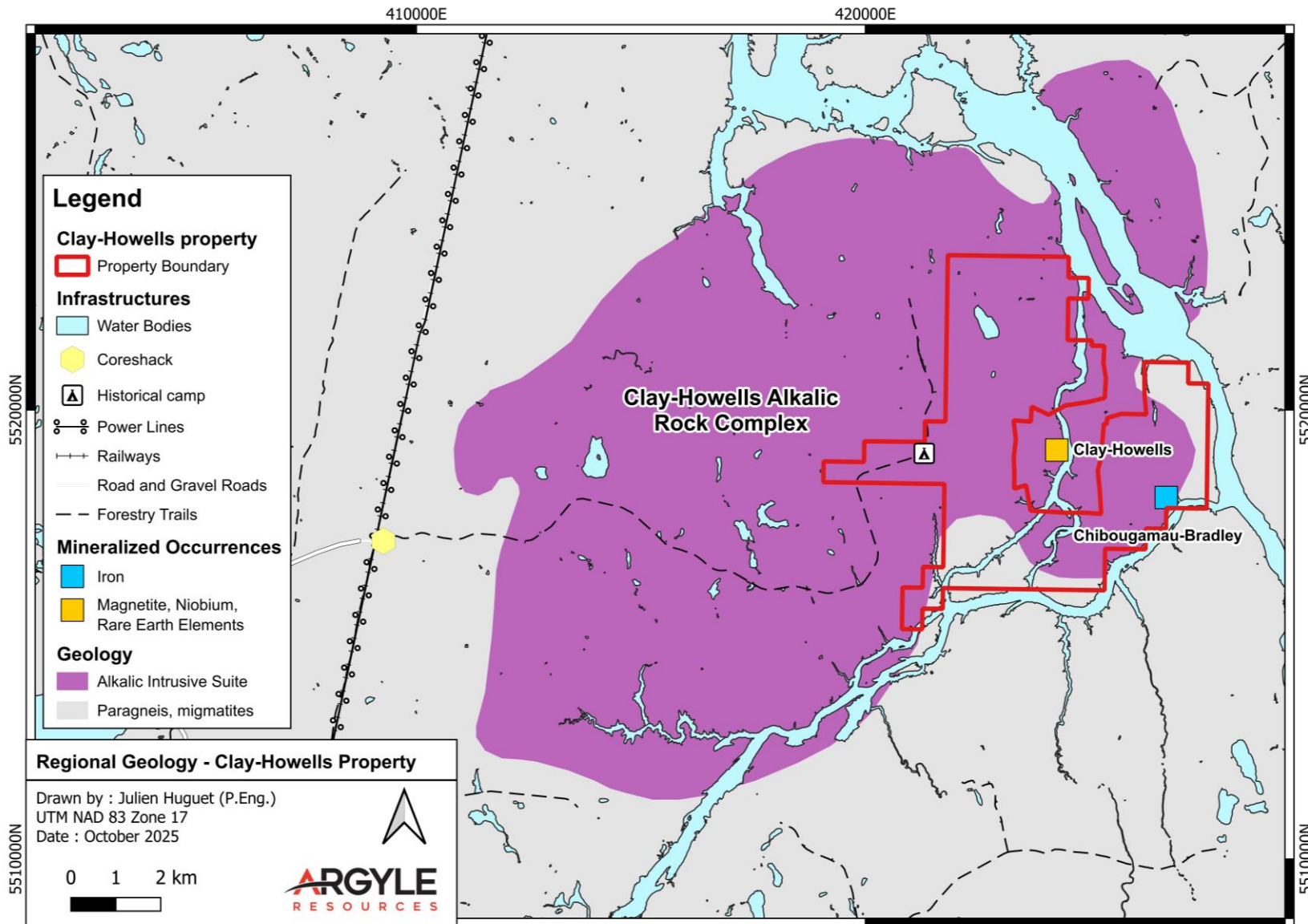


Figure 4: Simplified regional geology of the Clay-Howells Property (Argyle's Resources)

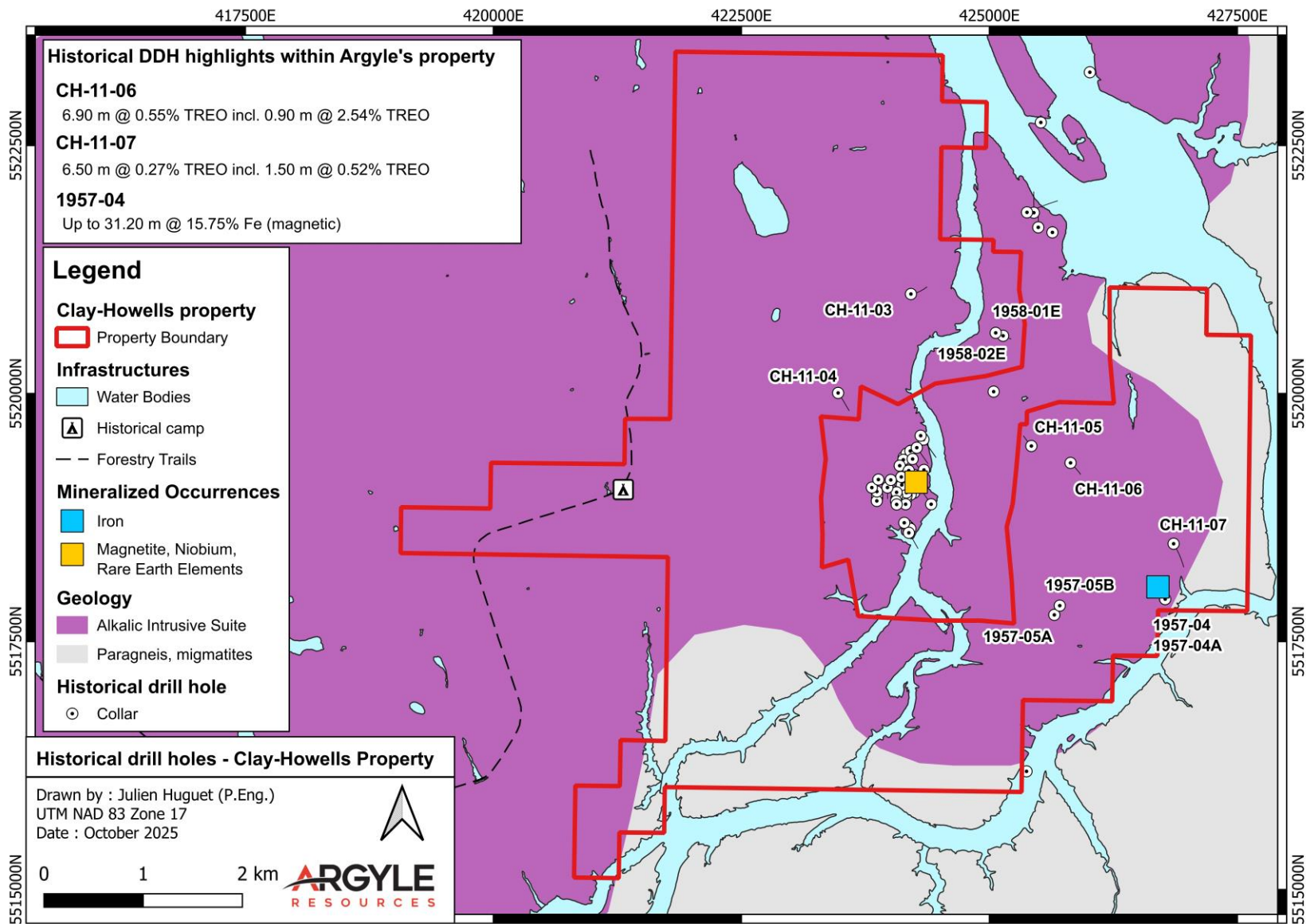


Figure 5: Historical DDH located in or near the Clay-Howells Property

6 WORK DESCRIPTION

Chibougamau Diamond Drilling Ltd. was contracted by *Laurentia Exploration Inc.* to provide a drill rig compatible with a drilling campaign requiring the use of a helicopter for personnel and equipment access. Seven (7) BTW-sized diamond drill holes (core diameter: 48 mm) for a total of 1,983 m were completed in the span of 22 days (**Figure 6, Figure 7**). Drill hole planification was made based on 2VD magnetic anomalies from the 2009-2010 surveys. Coordinates and parameters of these holes are available in **Table 3**. Selected and assayed samples are provided in **Table 4**. Coordinates are given in UTM NAD83 Zone 17N. Operation including mobilization and demobilization spanned from 2025-09-10 to 2025-10-08. Drilling started on 2025-09-14 and ended on 2025-10-05 (22 days). Logging started on 2025-09-15 and ended on 2025-10-06 (22 days). Drilling permit No PR-25-000130 was issued on 2025-09-02.

Table 3: 2025 drill holes coordinates (UTM NAD83 Zone 17) and information

Hole ID	Az	Dip	Length (m)	Drill meterage by claim (m)				Provincial Cell Grid	Easting	Northing	Township
				763276	763277	763278	763279				
CH-25-01	170	-60	300		300			42G16A069	423061	5519095	Clay
CH-25-02	150	-45	222		222			42G16A089	423062	5518568	Clay
CH-25-04	170	-65	225	225				42G16A012 42G16A032	424440	5520204	Clay
CH-25-05	170	-55	300	300				42G16A013 42G16A033	424588	5520314	Clay
CH-25-06	180	-45	351			193	158	42G16A055 42G16A075	425663	5519333	Clay
CH-25-07	180	-45	297			297		42G16A075 42G16A095	425691	5518935	Clay
CH-25-08	180	-45	288			127	161	42G16A056 42G16A076	426038	5519331	Clay
Total drilled per claim (m)				525	522	617	319				

Table 4: Selected and assayed samples from the 2025 drilling campaign

Hole ID	Selected Samples	Assayed Samples	Selected samples by claim				Assayed samples by claim			
			763276	763277	763278	763279	763276	763277	763278	763279
CH-25-01	126	27		126				27		
CH-25-02	102	36		102				36		
CH-25-04	92	35	92				35			
CH-25-05	84	18	84				18			
CH-25-06	136	40			51	85			3	37
CH-25-07	80	13			80				13	
CH-25-08	103	11			62	41				11
			176	228	193	126	53	63	16	48

6.1.1 Drill hole surveying, alignment and deviation measurement

Drill holes were implanted on the field with a Garmin GPSMAP 64s, using the coordinate system UTM NAD83 (Zone 17N). Implantation was done either by Laurentia or by Forage Chibougamau.

Wooden stakes were used to identify the location of the drill hole collars. The drill rig was aligned by the foreman with a Reflex TN-14 gyrocompass because magnetic anomalies that were targeted prevented the use of a compass and dip. Deviation tests were taken with a Reflex EZ-GYROTM, 9 m after the casing and then every 30 m during drilling. Multishots were taken once the drill hole was completed and measurements were taken every 3 m.

6.1.2 Logging and sampling

Core description and sampling were performed by *Laurentia* teams at the mobile coreshack located 18 km west of the property at the junction between Csr 7 Guilfoye Road, the gravel road going up north servicing the Adam Creek Control Dam and Csr 8 Hopkins. The logging procedures introduced by *Laurentia* are consistent with the standard mining industry practices. The software GeoticLog was used as the data management system. The logs are provided in **Appendix II** and sections are provided in **Appendix III**.

A total of 647 drill-core samples (excluding 76 blanks and reference materials) ranging from 0.50 m to 1.50 m and representing 802.95 m of core length were selected. Part of them (164 rock samples and 16 QAQC) were sawed and sent for analysis, based rock description and XRF analysis. This report includes only results of these 164 rock samples. The remaining samples will be sent to a laboratory later.

The sample intervals were determined based on the extent of lithologies, mineralization and other geological features. Samples were identified using a unique numbering system. Samples were sawed in half (longitudinally) and bagged by a technician in Jonquière, then shipped to the laboratory (*Actlabs*). The core boxes were identified with metered Dymo tags and then stored on pallets in Jonquière.

6.1.3 Analytical methods

Samples were sent to *Activation Laboratories Ltd.* (*Actlabs*) in Ancaster to test for rare earth elements with package Code 8 - REE Assay. The section below gives more details about the analytical procedure. Analysis certificates are available in **Appendix IV**.

Samples are prepared and analyzed in a batch system. Each batch contains a method reagent blank, certified reference material and 6% replicates. They are first ground to 95 % -200 mesh then mixed with a flux of lithium metaborate and lithium tetraborate and fused in an induction furnace. The molten melt is immediately poured into a solution of 5% nitric acid containing an internal standard and mixed continuously until completely dissolved. Major elements are run on the Agilent ICPOES 5900 and Trace/REE are run on the Agilent 7800 ICPMS.

6.1.4 QA/QC

A conventional QA/QC sampling protocol was established to test the accuracy and precision of the analysis results. Blanks and standards with known concentrations of elements have been inserted into the sampling sequences. 76 QAQC samples were inserted and represent 10.50% of the sampling sequence. Blanks (40) are made of silica powder. Standards include 23 Oreas 460 and 13 Oreas 463.

As only part of the samples was sent for analysis in priority the QAQC presented in this report includes eight (8) blanks, four (4) Oreas 460 and four (4) Oreas 463. More details on the QA/QC protocol are provided in **Appendix V**.

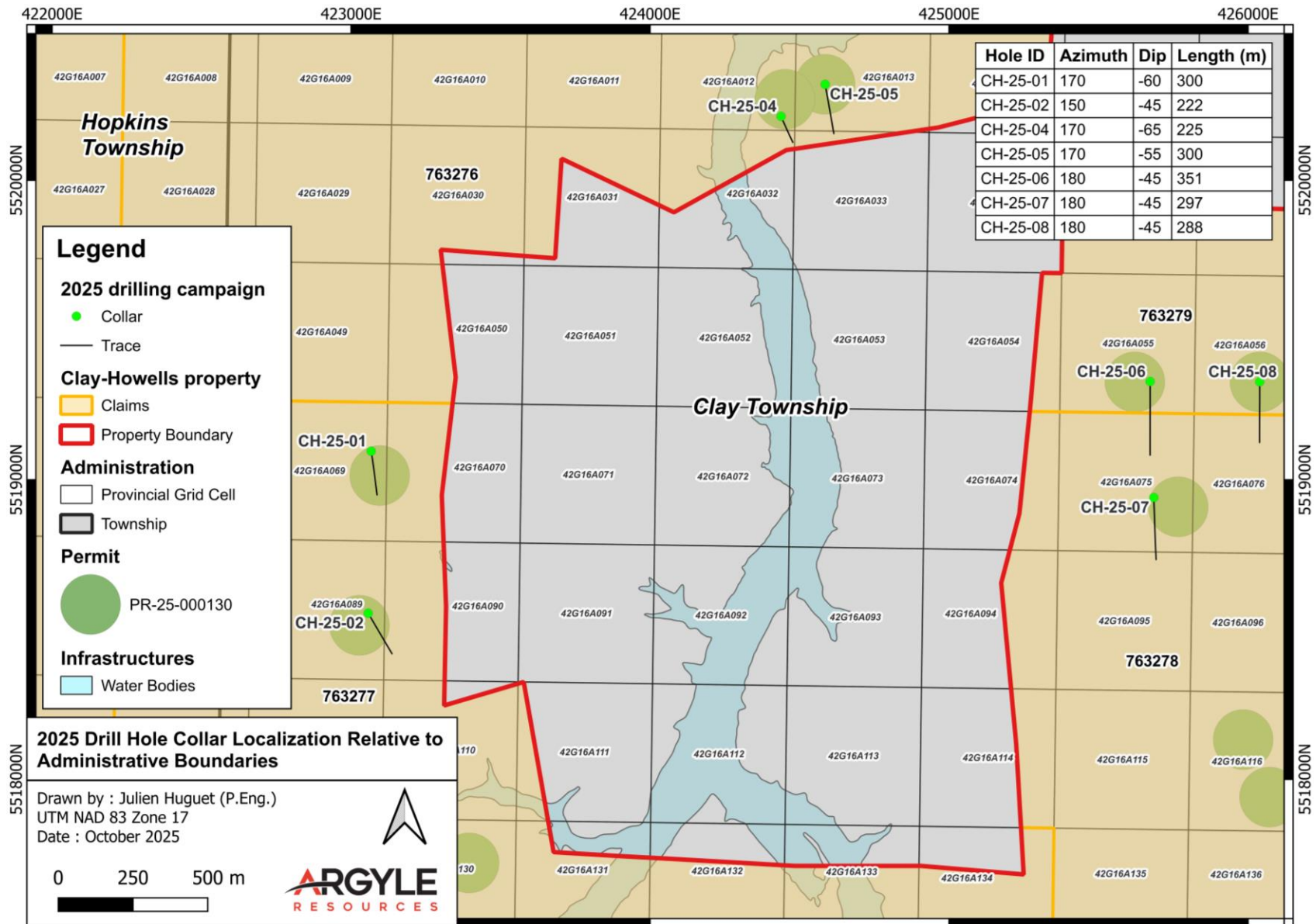


Figure 6: Drill holes collars localization in regard to administrative boundaries

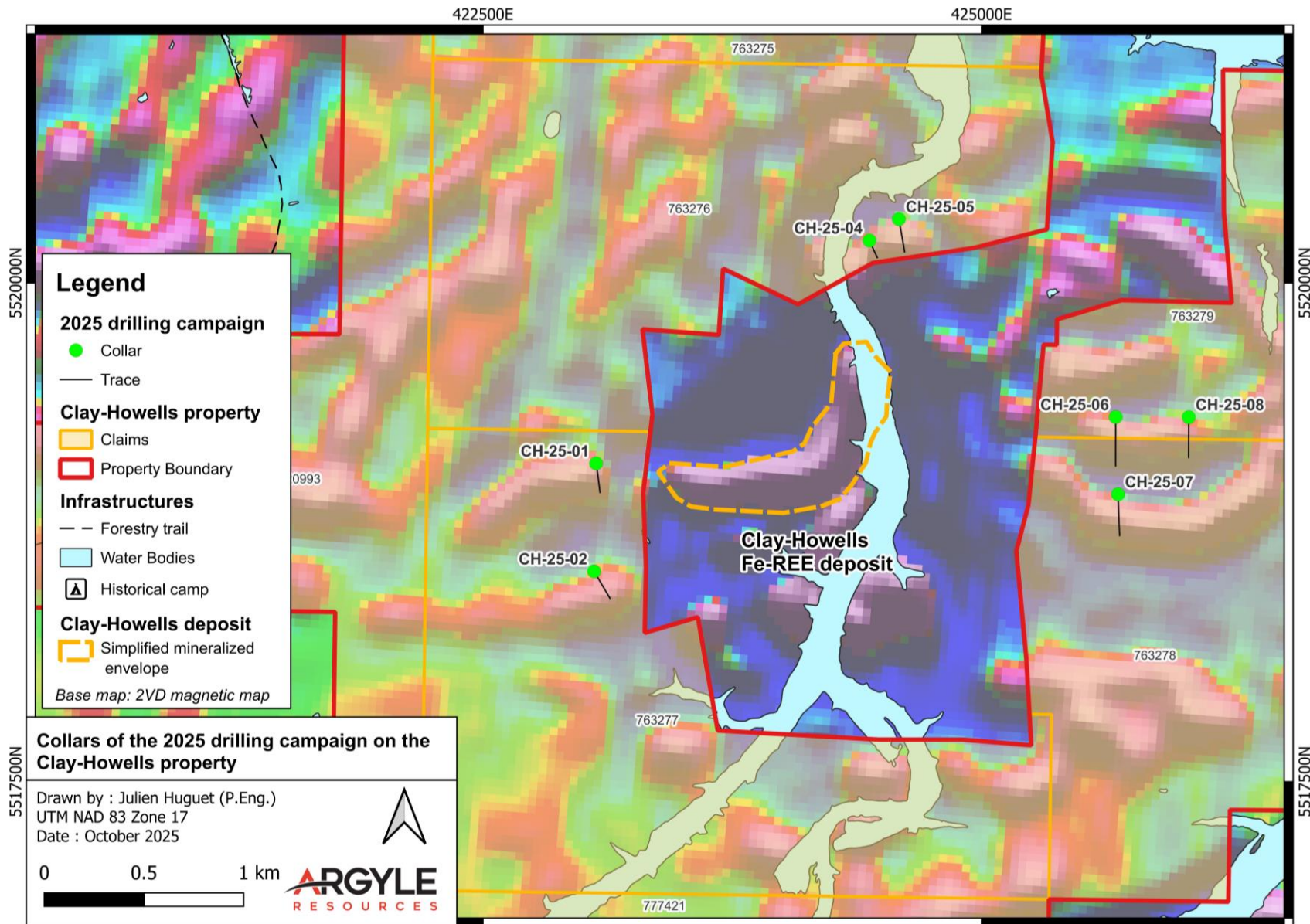


Figure 7: Map of the 2025 drill holes on the Clay-Howells property

7 OBSERVATIONS AND RESULTS

The following sections provide highlight of the drilling campaign based on the results of the 164 samples sent to the laboratory based on their priority that was defined according to rock description and XRF analysis. Short summaries of the encountered rocks and associated mineralized intervals are given. Results of the 164 rock samples sent for analysis are included. Highlights of the drilling campaign are provided in the tables below (**Table 5, Table 6**).

A total of 49 samples returned > 0.17 % TREO (sum of lanthanides). 0.17 % TREO is the showing threshold as defined by the Ministère des ressources naturelles et des Forêts. These include 20 samples > 0.30 % TREO, including 6 samples > 0.50% TREO. Highest grade is 0.76 % TREO.

Table 5: Highlights of drill-core samples sent to assay for REE (>0.17 % TREO)

DDH	Sample	From (m)	To (m)	Length (m)	CeO ₂ (%)	La ₂ O ₃ (%)	Nd ₂ O ₃ (%)	TREO (%)
CH-25-06	L787566	87.90	88.50	0.60	0.35	0.26	0.09	0.76
CH-25-06	L787572	91.00	91.60	0.60	0.36	0.21	0.10	0.74
CH-25-04	L787384	85.25	85.95	0.70	0.33	0.17	0.12	0.69
CH-25-04	L787416	166.50	167.50	1.00	0.28	0.14	0.11	0.61
CH-25-06	L787567	88.50	89.00	0.50	0.26	0.17	0.07	0.54
CH-25-06	L787569	89.50	90.10	0.60	0.25	0.18	0.06	0.52
CH-25-04	L787413	165.00	165.50	0.50	0.21	0.09	0.09	0.45
CH-25-04	L787412	164.25	165.00	0.75	0.20	0.09	0.08	0.43
CH-25-06	L787538	30.00	31.00	1.00	0.20	0.11	0.06	0.42
CH-25-02	L787203	146.00	146.80	0.80	0.19	0.09	0.08	0.41
CH-25-04	L787415	165.50	166.50	1.00	0.18	0.09	0.07	0.40
CH-25-04	L787425	173.00	174.00	1.00	0.18	0.09	0.07	0.39
CH-25-04	L787428	177.00	178.50	1.50	0.18	0.09	0.07	0.38
CH-25-06	L787539	31.00	31.50	0.50	0.18	0.11	0.05	0.38
CH-25-02	L787202	144.95	146.00	1.05	0.17	0.08	0.07	0.37
CH-25-04	L787410	163.5	164.25	0.75	0.17	0.09	0.06	0.37
CH-25-02	L787204	146.80	147.30	0.50	0.14	0.07	0.06	0.31
CH-25-06	L787545	36.00	36.50	0.50	0.15	0.08	0.05	0.31
CH-25-01	L787093	209.00	210.00	1.00	0.15	0.07	0.05	0.31
CH-25-08	L787739	18.25	18.80	0.55	0.13	0.07	0.04	0.30
CH-25-04	L787421	170.65	171.15	0.50	0.14	0.07	0.05	0.29
CH-25-06	L787568	89.00	89.50	0.50	0.14	0.09	0.03	0.29
CH-25-08	L787740	18.80	20.30	1.50	0.13	0.06	0.05	0.27
CH-25-06	L787531	20.00	21.00	1.00	0.13	0.08	0.04	0.27
CH-25-06	L787537	28.50	30.00	1.50	0.12	0.07	0.04	0.25
CH-25-04	L787402	138.65	139.50	0.85	0.11	0.06	0.04	0.25
CH-25-08	L787744	28.00	29.50	1.50	0.11	0.06	0.04	0.24
CH-25-04	L787417	167.50	168.50	1.00	0.12	0.07	0.03	0.24
CH-25-06	L787529	19.50	20.00	0.50	0.11	0.07	0.03	0.24
CH-25-02	L787193	135.00	136.50	1.50	0.11	0.06	0.04	0.24
CH-25-04	L787418	168.50	169.00	0.50	0.12	0.07	0.03	0.23
CH-25-04	L787419	169.00	170.00	1.00	0.11	0.06	0.03	0.22
CH-25-06	L787534	24.00	25.50	1.50	0.10	0.06	0.03	0.21
CH-25-08	L787743	26.50	28.00	1.50	0.10	0.05	0.04	0.21
CH-25-08	L787741	23.50	25.00	1.50	0.10	0.05	0.04	0.21
CH-25-08	L787738	17.75	18.25	0.50	0.10	0.06	0.03	0.21

DDH	Sample	From (m)	To (m)	Length (m)	CeO ₂ (%)	La ₂ O ₃ (%)	Nd ₂ O ₃ (%)	TREO (%)
CH-25-08	L787742	25.00	26.50	1.50	0.10	0.05	0.04	0.21
CH-25-02	L787205	147.30	148.00	0.70	0.10	0.05	0.04	0.21
CH-25-04	L787401	138.00	138.65	0.65	0.09	0.04	0.04	0.20
CH-25-06	L787623	258.00	259.50	1.50	0.10	0.06	0.03	0.20
CH-25-01	L787109	262.50	263.00	0.50	0.09	0.06	0.03	0.20
CH-25-04	L787405	142.50	143.60	1.10	0.09	0.05	0.03	0.20
CH-25-06	L787621	227.70	229.20	1.50	0.08	0.04	0.03	0.18
CH-25-04	L787427	175.50	177.00	1.50	0.08	0.04	0.03	0.18
CH-25-01	L787060	95.30	95.80	0.50	0.09	0.05	0.02	0.18
CH-25-06	L787536	27.00	28.50	1.50	0.08	0.05	0.03	0.18
CH-25-06	L787533	22.50	24.00	1.50	0.08	0.05	0.03	0.18
CH-25-06	L787541	31.50	32.50	1.00	0.08	0.05	0.02	0.17
CH-25-02	L787195	138.00	139.50	1.50	0.08	0.04	0.03	0.17

Table 6: Highlights from drill-core sample composites (REE)

DDH	From (m)	To (m)	Length (m)	CeO ₂ (%)	La ₂ O ₃ (%)	Nd ₂ O ₃ (%)	TREO (%)
CH-25-02	135.00	151.55	16.55	0.08	0.04	0.03	0.16
	135.00	141.35	6.35	0.08	0.04	0.03	0.17
	144.95	148.00	3.05	0.15	0.07	0.06	0.33
CH-25-04	136.00	145.00	9.00	0.06	0.03	0.02	0.14
	163.50	178.5	15.00	0.13	0.07	0.05	0.28
	163.50	171.15	7.65	0.16	0.08	0.06	0.34
CH-25-06	12.00	36.50	24.50	0.08	0.05	0.03	0.17
	87.00	97.50	10.50	0.11	0.07	0.03	0.23
	87.90	91.60	3.70	0.22	0.15	0.05	0.45
CH-25-08	17.75	32.50	14.75	0.07	0.04	0.03	0.16

Most of the encountered lithologies are of syenitic nature. They can be grey to pink, fine to coarse grained and usually weakly to moderately magnetic (3-4% as disseminated up to cm grains/clusters). They are mostly formed of potassic feldspars with up to 15% mafic minerals as disseminated interstitial grains or clusters (centimetres to decimetres). Those clusters are mostly made of amphiboles-pyroxene and more rarely biotite. They can reach 10 cm and are heterogeneously distributed. Titanite is seldom observed as idiomorphic rhombus, millimetric to pluri-millimetric.

Carbonatite laced with magnetite were intercepted in hole CH-25-02 and CH-25-04. They are white, fine to medium-grained, saccharoidal. Their magnetite contents range from 10-15 % as mm to 2-3 mm grains. Some more massive magnetite intervals are locally observed near the edges of the carbonatite. XRF analysis returned notable TREO grade in the parts enriched in magnetite.

Purplish fluorine is a widespread accessory mineral of importance as it highlights zones with REE-bearing minerals that are otherwise not easily recognizable. Fluorine and associated REE-bearing minerals are often found in or close to mafic-rich intervals or clusters mostly made of amphiboles and magnetite.

Magnetite is omnipresent in the observed rocks, most as disseminated 1-5 mm grains or clusters (2-3%). Intercepts of carbonatite often contains magnetite as well. Put together they most likely explain the targeted high magnetic anomalies.

Based on XRF and sample analysis, the mineralization is characterized by an enrichment in light REE especially in Ce, La, and Nd and minor amount of Pr. This is consistent with the fenitization of the host rocks associated with the emplacement of a nearby carbonatite intrusion.

7.1 Hole summaries, mineralized intervals and results

7.1.1 CH-25-01 (300 m)

Hole was cased at 31.30 m in a gray syenitic unit. All rocks encountered are syenitic in nature, but vary in color (gray, pinkish, greenish, and combinations of these colors) and grain size (fine, medium, coarse, and pegmatitic). They are all very weakly to weakly magnetic due to the presence of 1 to 3% isolated grains or disseminated magnetite aggregates measuring several millimeters (**Figure 8, Figure 9**). This explains the high magnetic anomaly that was targeted. They are mainly composed of potassium feldspars with interstitial mafic minerals (biotite, amphibole, and possibly sodium pyroxene) in the form of idiomorphic grains or aggregates/spots. Amphibole and magnetite appear to be spatially associated, as in some places, magnetite is found as rims around or at the core of amphibole. The concentration of these mafic phases influences the color of the rock. Quartz is rarely observed (less than 1% to 2-3 %). In terms of alteration, most rocks appear to be poorly altered (potassic, amphibolized, locally hematized). Some areas appear to be fenitized (Ca, Na alteration), which generally indicates the presence of a carbonatite intrusion nearby.



Figure 8: Pinkish to orangish syenite with magnetite and amphibole crystals. That type of interval gives a higher scintillometer response.



Figure 9: Beige, grey syenite with magnetite crystals at the core or rim around amphibole

Overall, the scintillometer response shows the background (100-120 CPS) and local higher response (150-200 CPS) over interval that look fenitized. XRF analyses indicate a low REE content in magnetite (200-500 ppm Ce, 200-400 ppm La, with lower concentrations of Nd and Pr). Some mafic clusters associated with amphiboles show Ce and La contents of up to 800 ppm. Idiomorphic titanite is observed locally (light brown rhombus) – REE content up to 0.20% Ce and La with 800 ppm Nd and Pr. Local presence 1-2 m (2-3%), up to cm long rhombus axis. Black amphibole or surrounding phases locally contains up to 0.20% Ce and La with minors amounts of Nd and Pr.

Fluorine seems a good marker of REE enrichment as it is found nearby zones with a higher REE background or closely associated to REE-bearing phases.

For instance, 3-4 purplish glassy 2-3 cm fluorine crystals were found at 95.40 m. Alone they contain low REE content according to XRF readings (0.05% Ce, 0.05% La). One contains a 1 cm by 2 mm brownish baguette-shaped crystal that is REE rich. XRF readings returned 2.20% Ce, 1.80% La, 0.60% Nd, 0.20% Pr (**Figure 10**). Sample L787060 (95.30 to 95.80 m) returned 0.18 % TREO over 0.50 m.



Figure 10: CH-25-01 – 95.40 m fluorine (purple) crystals. One contains a 1 cm by 2 mm baguette-shaped crystal that contains REE (2.20% Ce, 1.80% La, 0.20% Pr)

Best results from that hole come from samples L787093 and L787109. Sample L787093 (209.00-210.00 m) returned 0.31% TREO linked to the presence of disseminated fluorite in a pinkish orangish syenite. Sample L787109 (262.50-263.00 m) returned 0.20% TREO linked to the presence of fluorite in a carbonate veinlet hosted in syenitic rock.

7.1.2 CH-25-02 (222 m)

Hole cased at 8.65 m in a syenite unit. Descriptions of the rocks are similar to what was observed in hole CH-25-01. The presence of 1 to 3% magnetite in the form of disseminated grains also explains the targeted high magnetic anomaly. An interval of white equigranular carbonatite is observed between 144.95 and 148.00 m (3.05 m, **Figure 11**), containing 5 to 8% magnetite in the form of finely disseminated grains or aggregates. A fenitization halo is located around the carbonatite (125.20-141.35 m and 147.30-186.00 m) and has a higher scintillometer response.



Figure 11: Carbonatite laced with magnetite intercept in hole CH-25-02

As in hole CH-25-01, fluorine is often observed, mostly as disseminated mm grains or clusters and indicates proximity with REE-rich minerals. Some of these intervals are listed below:

- 17.30 m: Grains of fluorine associated to a 1-2 mm brownish angular mineral, with a radial pattern affecting the surrounding feldspars. XRF readings returned up to 0.12% Ce, 0.10% La and 0.34% Th.
- 28.50 m: Fluorite associated with green amphiboles and some angular brownish minerals as disseminated traces with a radial fracture pattern affecting the surrounding feldspars. XRF readings returned up to 0.22% Ce, 0.18% La, 0.06% Nd.
- 33.00-37.00 m: Zone characterized by a higher Th content. Rock is coarser grained with a local pegmatitic appearance and is pinker (fenite, K-altered, hematitized). Local black irregular bands or clusters composed of various minerals (mm) are found. XRF reading returned up to 0.54% La, 0.76% Ce, 0.23% Nd, 0.10% Rd. Fluorine gives 0.25% Ce, 0.17% La (**Figure 12**). Sample 787143 returned 0.14 % TREO over 0.50 m from 35.20-35.70 m.



Figure 12: Black clusters REE-rich and closely associated fluorine (35.50 m)

Based on assay results, part of the alteration halo around the carbonatite contains a higher REE content background with 0.17 % TREO from 135.00-141.35 m. The carbonatite itself returned 0.33 % TREO over 3.05 m from 144.95-148.00 m. A composite for the whole REE-rich interval returned 0.16% TREO over 16.55 m from 135.00 m to 151.55 m.

7.1.3 CH-25-04 (225 m)

CH-25-04 collared in a syenitic unit at 7.20m then encountered various syenitic units (grain size, color), that contain 1-3 % magnetite as disseminated grains. Overall REE content is very low as per XRF measurements. Scintillometer gives 100-150 CPS which corresponds to the background signal for those rocks. Locally mafic clusters mostly made of green amphibole and magnetite are intercepted (cm to nearly 1 m, such as from 85.25-85.95 m). XRF analysis on that magnetite-rich zone returned up to 0.6% Ce, 0.4% La, 0.3% Nd, 0.2% Pr. Sample L787384 collected from 85.25-85.95 m returned 0.69 % TREO.

Highlight comes from a 5.90 m (core length) thick carbonatite (whitish grey, equigranular) layered with magnetite intercepted from 165.25-171.15 m. Magnetite grains are organized in mm to pluri-mm beds or more massive intervals. XRF analysis on those more massive intervals returned up to 1.2% Ce, 0.65% La, 0.45% Nd and 0.10% Pr (**Figure 13**). Composite from 163.50-171.15 m including the carbonatite interval and upper contact returned 0.34 % TREO including 0.61 % TREO over 1.00m. A larger composite including the carbonatite returned 0.28% TREO over 15.00 m from 163.50-178.50 m.



Figure 13: Magnetite layered carbonatite in hole CH-25-04 (168 m)

7.1.4 CH-25-05 (300 m)

Hole CH-25-05 was drilled to target the same magnetic anomaly drilled by hole CH-25-04. Hole collared at 6.90 m in a syenitic unit (**Figure 14, Figure 15**). From 6.90 m to the end, hole encountered mostly pink to grey syenite always weakly magnetic hence explaining the high magnetic anomaly. Scintillometer counts ranges between 100 and 200 CPS which is the average response for that type of rock. No carbonatite was intercepted, and presence of REE-bearing minerals was scarce with local presence of fluorine. Assay results did not return any value of interest.



Figure 14: Pinkish syenite. Most commonly found unit



Figure 15: Grey syenite. Not as widely encountered as the pink syenite

7.1.5 CH-25-06 (351 m)

Hole CH-25-06 collared at 10.60 m and encountered syenitic rocks that vary in grain size and color throughout the hole. Presence of homogeneously distributed magnetite grains explains the high magnetic anomaly that was targeted. From 10.60 to 36.50 m (**Figure 16, Figure 17**), fluorine is encountered as 1-2% pluri-mm aggregates often associated to mafic patches or reddish-brown carbonate minerals that are REE-rich. XRF readings are as follows:

- 15.20 m: 0.45% Ce, 0.32% La, 0.15% Nd
- 19.50 m: 0.32% Ce, 0.24% La, 0.10% Nd
- 30.3 m: 0.70% Ce, 0.55% La, 0.20% Nd
- 32.90m: 1.20% Ce, 1.00% La, 0.40% Nd

A composite from 12.00-36.50 m (24.50 m) returned 0.17 % TREO including 0.40 % TREO over 1.50 m.

Highlight of the hole comes from an alteration zone (silice, potassic, sodic) from 87.90-91.60 m. XRF readings returned up to 1.00% Ce, 0.70% La, 0.10% Nd (91.50 m, **Figure 18**). Composite over that same interval returned 0.45 % TREO over 3.70 m while a larger one returned 0.23 % TREO over 10.50 m from 87.00 to 97.50 m.

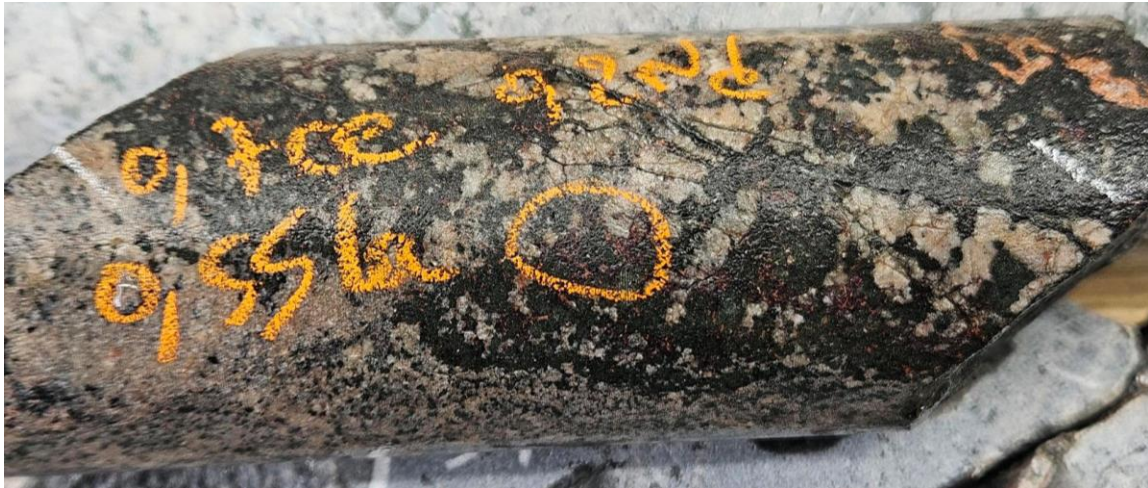


Figure 16: Mafic (amphibole-magnetite) aggregate with dark reddish minerals REE-rich at 30.3m



Figure 17: Mafic (amphibole-magnetite) aggregate with dark reddish minerals REE-rich at 32.90 m



Figure 18: Alteration zone (87.90-91.60 m) – REE-enriched

A fluorine-rich zone of 20 cm is intercepted at 227.30 m (10% fluorine) with punctual XRF value at 0.66% Ce 0.47% La, 0.16% Nd. Sample L787621 (227.70-229.20 m) returned 0.18 % TREO.

7.1.6 CH-25-07 (297 m)

Hole CH-25-07 collared at 13.50 m in monzodioritic to syenitic rocks up to 63.70 m. Then rock composition becomes more gabbroic (leucogabbro, **Figure 19**) up to 254.35 m with minor m to pluri-m syenitic injections. Rock is mostly made of slightly blueish plagioclase, 15% of biotite as centimetric patches, pyroxenes and amphiboles. Accessory minerals are made of apatite, K-feldspar and titanite. From 257.35 m to 297.00 m the rock is of monzonitic to syenitic composition. Overall REE-content is low, as hole did not intercept REE-bearing phases according to XRF analysis. Magnetic anomaly is explained by presence of disseminated magnetite grains throughout the units. The selected samples did not return any values of interest.



Figure 19: Leucogabbro (69.00 m)

7.1.7 CH-25-08 (288 m)

Hole CH-25-08 collared at 14.15 m in a syenitic unit. Syenite or various color and grains size are encountered throughout the hole. Rocks are described as pink-whitish coarse-grained syenite to alkali syenite with orthoclase and microcline. It contains rare fluorite spots. At 18.60 m, some orangish minerals were observed and are probably silicate of Ca-REE returning 1118 ppm La, 1560 ppm Ce, 250 ppm Pr and 750 ppm Nd. A composite from 17.75-32.50 m (14.75 m) returned 0.16% TREO.

8 CONCLUSIONS AND RECOMMENDATIONS

This report describes the 2025 diamond drilling program carried out on the Clay-Howells property for *Argyle Resources Corp.* Seven (7) diamond drill holes were completed using BTW-size core for a total of 1,983 m. Access to the drill sites was achieved by helicopter. The objective was to investigate magnetic highs surrounding a known REE deposit characterized by magnetite-rich carbonatite located outside the property boundaries.

A total of 49 samples returned >0.17% TREO (sum of lanthanides). The 0.17% TREO value corresponds to the showing threshold defined by the Ministère des Ressources naturelles et des Forêts. Among these samples, 20 reported >0.30% TREO, including 6 samples >0.50% TREO. The highest grade obtained was 0.76% TREO.

The main highlights of the campaign come from two (2) magnetite-bearing carbonatite intercepts. The first occurs in hole CH-25-02 from 144.95 m to 148.00 m (3.05 m). This interval returned 0.33% TREO, while a wider composite including fenitized syenitic rocks surrounding the carbonatite returned 0.16% TREO over 16.55 m. The second carbonatite intercept is located in hole CH-25-04 from 165.25 m to 171.15 m (5.90 m) and returned 0.34% TREO (163.50-171.15 m), with a broader composite of 0.28% TREO over 15.00 m.

Additional REE-bearing intervals were identified, although most are associated with discrete occurrences of purplish fluorine, mafic aggregates composed of dark green amphibole and magnetite hosted in syenite, or Ca–Na–Si alteration zones.

Some of these intervals are nevertheless noteworthy. Holes CH-25-06 and CH-25-08 targeted the same magnetic high and both returned interesting composites over decimetre-scale intervals. Hole CH-25-06 returned 0.17% TREO over 24.50 m, including 0.40 % TREO over 1.50 m (fluorine, mafic aggregates, orangish minerals), as well as a second interval of interest within an alteration zone reporting 0.23% TREO over 10.50 m, including 0.45% TREO over 3.70 m. Hole CH-25-08 returned 0.16% TREO over 14.75 m (fluorine and REE-rich phases).

The magnetic highs appear to be explained by the widespread presence of disseminated magnetite and, more rarely, by narrow (<6 m core length) magnetite-rich, equigranular whitish carbonatite units.

Based on these observations and results, Laurentia recommends to:

- 1) Drill along the continuity of the carbonatites found during this campaign toward the known deposit located outside Argyle's property claims;
- 2) Test other anomalies, prioritizing those closest to the Clay-Howells deposit;
- 3) Conduct a radiometric survey over the property to potentially highlight new anomalies;
- 4) Contact the owner of the mining land tenure holding the deposit, as it appears not to have been worked since 2011, a development agreement could be negotiated.

Dated this 18th day of November 2025

Julien Huguet, M.Sc., P.Eng.

Laurentia Exploration Inc.



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Appendix I

List of claims

Tenure Type	Tenure ID	Anniversary date	Area (Ha)	Work required	Holder (percentage)
MCMC	763275	November 30, 2024	451.04	\$ 17,600	(50) PERRY VERN ENGLISH, (50) Gravel Ridge Resources Ltd.
MCMC	763276	November 30, 2024	416.84	\$ 18,400	(50) PERRY VERN ENGLISH, (50) Gravel Ridge Resources Ltd.
MCMC	763277	November 30, 2024	437.74	\$ 19,200	(50) PERRY VERN ENGLISH, (50) Gravel Ridge Resources Ltd.
MCMC	763278	November 30, 2024	436.49	\$ 18,400	(50) PERRY VERN ENGLISH, (50) Gravel Ridge Resources Ltd.
MCMC	763279	November 30, 2024	301.04	\$ 14,400	(50) PERRY VERN ENGLISH, (50) Gravel Ridge Resources Ltd.
MCMC	777421	January 25, 2025	417.10	\$ 16,000	(50) PERRY VERN ENGLISH, (50) Gravel Ridge Resources Ltd.
MCMC	920993	January 24, 2027	416.88	\$ 8,000	(50) PERRY VERN ENGLISH, (50) Gravel Ridge Resources Ltd.
MCMC	920994	January 24, 2027	166.63	\$ 3,200	(50) PERRY VERN ENGLISH, (50) Gravel Ridge Resources Ltd.
SCMC	920995	January 24, 2027	20.85	\$ 400	(50) PERRY VERN ENGLISH, (50) Gravel Ridge Resources Ltd.
SCMC	920996	January 24, 2027	20.83	\$ 400	(50) PERRY VERN ENGLISH, (50) Gravel Ridge Resources Ltd.
SCMC	966295	October 14, 2027	20.85	\$ 400	(100) B Weston

Appendix II

Drill holes logs

Survey:	CH-25-01	Claims title:	763277	Section:	
Contractor:	Chibougamau Drilling	Township:	Clay	Level:	Surface
Author:	Batyste Perrin, M.Sc.A., Julien Huguet, P.Eng;	Range:		Work place:	Clay Howells
		Lot:		Provincial Cell Grid:	42G16A069
		Start date:	2025-09-14	Description date:	2025-09-15
		End date:	2025-09-18		

Collar:

Azimuth:	170.00°	UTM NAD83 Zone 17	
Dip:	-60.00°	East	423061.00
Length:	300.00 (m)	North	5519095.00
		Elevation	206.60 (m)

Down hole survey

Type	Depth	Azimuth	Dip	Type	Depth	Azimuth	Dip
Gyro_multi	3.00	169.82°	-61.12°	Gyro_multi	24.00	171.12°	-60.50°
Gyro_multi	6.00	170.07°	-60.33°	Gyro_multi	27.00	171.30°	-60.55°
Gyro_multi	9.00	170.38°	-59.81°	Gyro_multi	30.00	171.46°	-60.51°
Gyro_multi	12.00	170.72°	-60.23°	Gyro_multi	33.00	171.42°	-60.43°
Gyro_multi	15.00	171.02°	-60.05°	Gyro_multi	36.00	171.52°	-60.43°
Gyro_multi	18.00	170.98°	-60.35°	Gyro_multi	39.00	171.59°	-60.47°
Gyro_multi	21.00	170.88°	-60.38°	.....	.....	.....	.....

Nombre d'échantillons:	113	Nombre d'échantillons roche totale:	0
Nombre d'échantillons QAQC:	13		
Longueur totale échantillonnée:	134.20 (m)		

Description:

1 round, 18 shell. water from nearby swamp casing. 500 m to S.

Core storage: Jonquière (Québec, Canada) at Laurentia Exploration office

Artesian : No

Casing: Left in place. Cap installed, screwed on tube.



Core size: BTW	Cemented: No
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Down hole survey

Type	Depth	Azimuth	Invalid...	Dip	Invalid...
Gyro_multi	42.00	171.65°	No	-60.52°	No
Gyro_multi	45.00	171.75°	No	-60.54°	No
Gyro_multi	48.00	171.78°	No	-60.53°	No
Gyro_multi	51.00	171.65°	No	-60.61°	No
Gyro_multi	54.00	171.86°	No	-60.55°	No
Gyro_multi	57.00	172.05°	No	-60.65°	No
Gyro_multi	60.00	172.02°	No	-60.70°	No
Gyro_multi	63.00	172.02°	No	-60.77°	No
Gyro_multi	66.00	171.98°	No	-60.84°	No
Gyro_multi	69.00	172.11°	No	-60.83°	No
Gyro_multi	72.00	172.15°	No	-60.85°	No
Gyro_multi	75.00	172.16°	No	-60.92°	No
Gyro_multi	78.00	172.10°	No	-60.96°	No
Gyro_multi	81.00	172.03°	No	-61.01°	No
Gyro_multi	84.00	172.06°	No	-61.02°	No
Gyro_multi	87.00	172.07°	No	-61.09°	No
Gyro_multi	90.00	172.08°	No	-61.01°	No
Gyro_multi	93.00	171.89°	No	-60.97°	No
Gyro_multi	96.00	172.01°	No	-61.03°	No
Gyro_multi	99.00	172.05°	No	-61.01°	No
Gyro_multi	102.00	172.16°	No	-60.88°	No
Gyro_multi	105.00	172.21°	No	-60.90°	No
Gyro_multi	108.00	172.18°	No	-60.83°	No
Gyro_multi	111.00	172.34°	No	-60.88°	No
Gyro_multi	114.00	172.52°	No	-60.98°	No
Gyro_multi	117.00	172.29°	No	-60.95°	No
Gyro_multi	120.00	172.33°	No	-60.89°	No
Gyro_multi	123.00	172.41°	No	-60.79°	No
Gyro_multi	126.00	172.56°	No	-60.72°	No
Gyro_multi	129.00	172.67°	No	-60.65°	No
Gyro_multi	132.00	172.85°	No	-60.69°	No
Gyro_multi	135.00	172.95°	No	-60.84°	No
Gyro_multi	138.00	172.90°	No	-60.77°	No
Gyro_multi	141.00	172.86°	No	-60.63°	No
Gyro_multi	144.00	172.99°	No	-60.55°	No
Gyro_multi	147.00	172.79°	No	-60.51°	No
Gyro_multi	150.00	172.85°	No	-60.68°	No

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Down hole survey						
Type	Depth	Azimuth	Invalid...	Dip	Invalid...	
Gyro_multi	153.00	172.88°	No	-60.87°	No	
Gyro_multi	156.00	172.70°	No	-60.80°	No	
Gyro_multi	159.00	172.83°	No	-60.70°	No	
Gyro_multi	162.00	172.81°	No	-60.71°	No	
Gyro_multi	165.00	172.79°	No	-60.90°	No	
Gyro_multi	168.00	172.65°	No	-60.68°	No	
Gyro_multi	171.00	172.78°	No	-60.69°	No	
Gyro_multi	174.00	173.00°	No	-60.75°	No	
Gyro_multi	177.00	172.81°	No	-60.83°	No	
Gyro_multi	180.00	172.74°	No	-60.72°	No	
Gyro_multi	183.00	172.75°	No	-60.71°	No	
Gyro_multi	186.00	172.94°	No	-60.70°	No	
Gyro_multi	189.00	172.67°	No	-60.87°	No	
Gyro_multi	192.00	172.68°	No	-60.87°	No	
Gyro_multi	195.00	172.92°	No	-60.86°	No	
Gyro_multi	198.00	172.70°	No	-60.66°	No	
Gyro_multi	201.00	172.69°	No	-60.57°	No	
Gyro_multi	204.00	172.84°	No	-60.59°	No	
Gyro_multi	207.00	173.06°	No	-60.77°	No	
Gyro_multi	210.00	172.70°	No	-60.66°	No	
Gyro_multi	213.00	172.73°	No	-60.64°	No	
Gyro_multi	216.00	172.89°	No	-60.65°	No	
Gyro_multi	219.00	172.85°	No	-60.79°	No	
Gyro_multi	222.00	172.73°	No	-60.57°	No	
Gyro_multi	225.00	172.84°	No	-60.62°	No	
Gyro_multi	228.00	172.95°	No	-60.82°	No	
Gyro_multi	231.00	172.77°	No	-60.64°	No	
Gyro_multi	234.00	172.74°	No	-60.63°	No	
Gyro_multi	237.00	173.12°	No	-60.87°	No	
Gyro_multi	240.00	172.71°	No	-60.76°	No	
Gyro_multi	243.00	172.80°	No	-60.74°	No	
Gyro_multi	246.00	173.06°	No	-60.84°	No	
Gyro_multi	249.00	172.78°	No	-60.85°	No	
Gyro_multi	252.00	172.75°	No	-60.71°	No	
Gyro_multi	255.00	172.90°	No	-60.75°	No	
Gyro_multi	258.00	172.78°	No	-60.90°	No	
Gyro_multi	261.00	172.70°	No	-60.79°	No	

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Down hole survey

Type	Depth	Azimuth	Invalid...	Dip	Invalid...
Gyro_multi	264.00	172.83°	No	-60.82°	No
Gyro_multi	267.00	173.03°	No	-60.92°	No
Gyro_multi	270.00	172.68°	No	-60.91°	No
Gyro_multi	273.00	172.67°	No	-60.78°	No
Gyro_multi	276.00	172.80°	No	-60.82°	No
Gyro_multi	279.00	172.89°	No	-61.05°	No
Gyro_multi	282.00	172.52°	No	-60.83°	No
Gyro_multi	285.00	172.60°	No	-60.79°	No
Gyro_multi	288.00	172.69°	No	-60.86°	No
Gyro_multi	291.00	172.85°	No	-61.03°	No
Gyro_multi	294.00	172.46°	No	-60.89°	No
Gyro_multi	297.00	172.50°	No	-60.88°	No
Gyro_multi	300.00	173.00°	No	-60.90°	No
Gyro_multi	301.00	173.00°	No	-60.90°	No

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Description		
0.00	31.30	MT Overburden Casing
31.30	41.20	I2D; GF Syenite; Fine-grained Syenite: Dark grey with orange to pinkish interstitial matrix, fine-grained, moderately magnetic. Composed of alkali feldspar (bluish iridescent feldspar). Contains traces of millimetric, regular white carbonate veinlets at 30–40° tca. No scintillometer signal. Lower contact diffuse with coarse-grained pinkish syenite. Low scintillometer response (100–120 CPS).
34.20	35.00	I2D; GG Syenite 45°; Coarse-grained Syenite, orange to pinkish, coarse grained, not magnetic, composed by orange alkali feldspar, 3 % of mafic minerals (amphibole mostly), traces of millimetric sharp magnetite cluster. No scintillometer signal. Upper contact sharp at 45 tca and lower contact sharp with presence of satellite vein, mostly orientated at 40 tca.
37.10	37.60	I2D; GG Syenite 40°; Coarse-grained Syenite, orange to pinkish, coarse grained, not magnetic, composed by orange alkali feldspar, 3-5 % of mafic minerals (amphibole mostly), traces of millimetric sharp magnetite cluster. No scintillometer signal. Upper contact sharp at 45 tca and lower contact sharp with presence of satellite vein, mostly orientated at 40 tca.
39.50	39.90	I2D; GG Syenite 70°; Coarse-grained Syenite, orange to pinkish, coarse grained, not magnetic, composed by orange alkali feldspar, 3-5 % of mafic minerals (amphibole mostly), traces of millimetric sharp magnetite cluster. No scintillometer signal. Upper and lower contact are sharp to diffuse at approximately 70 tca.
41.20	46.30	I2D; GG Syenite 55°; Coarse-grained Syenite: Orange to pinkish with green patches, coarse to very coarse grained, locally magnetic. No HCl reaction except where carbonate patches are observed. K-feldspar background. Contains 15–20% dark green chlorite/amphibole patches, plurimillimetric to centimetric, some with a magnetite core (2–3%). Presence of titanite as idiomorphic crystals up to 1 cm with low REE background (2–3%). This unit appears to be altered by fenitization, producing a mix of orange, red and yellowish parts composed of coarse amphibole–magnetite clusters and idiomorphic titanite (42.20 to 42.50 m). Weak to moderate pervasive and fracture-controlled hematite–potassic alteration. Scintillometer counts up to 300 CPS. Lower contact is sharp and oriented at 55° tca.
41.20	42.20	FK03; HM03 Potassic feldspar 3; Hematization 3 Moderate pervasiv and fractures-controlled hematite-potassic alteration.
41.20	42.20	MG02.5 Magnetite 2.5% Magnetite core (2-3 %).
42.20	42.50	FN03 Fenitization 3

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		Description
		Locally this unit seems to be altered by fenitization giving an mix of orange, red, yellowish part composed by coarse amphibole-magnetite clusters and idiomorph titanite (42,20 to 42,50 m)
42.20	42.50	MG03; Ttn03 Magnetite 3%; Titanite 3% coarse amphibole-magnetite clusters and idiomorph titanite (42,20 to 42,50 m)
42.50	49.10	HM02; FK02; FN03 Hematization 2; Potassic feldspar 2; Fenitization 3 Weak to moderate pervasiv and fractures-controlled hematite-potassic alteration. Moderate fenitization.
42.50	46.30	MG02.5 Magnetite 2.5% magnetite core (2-3 %).
46.30	48.10	I2D; GF Syenite; Fine-grained Syenite: Pink-greyish, fine-grained, with 20–25% millimetric spotted mafic minerals (mostly amphibole, biotite). Poorly magnetic locally. Contains 1–2% magnetite as disseminated grains (mm to plurimm). Green to yellowish spotted millimetric minerals are disseminated and may indicate alteration from 47.80 to 48.10 m, associated with dark red and dark yellow fractures oriented at 45° tca @ 48 m. Low scintillometer background (80–120 CPS). Lower contact diffuse.
46.30	48.10	MG01.5 Magnetite 1.5% 1-2% magnetite as disseminated grains mm to pluri-mm
48.10	49.10	I2D; FN; GG Syenite; Fenite; Coarse-grained Syenite: Brownish-greyish, coarse-grained, composed of a pinkish feldspar matrix overprinted by strong brown to orangish irregular centimetric patches and fractures brecciated with multicolour millimetric clasts. Weak HCl reaction. Not to very weakly magnetic. Contains ~2% millimetric irregular dark-red patches. XRF readings on these minerals give 880 ppm Ce and 640 ppm La. Potassic (2), hematite (2) and fenitic alteration. Lower contact sharp. Higher scintillometer background (300–400 CPS).
49.10	55.40	I2D; FN; GF-GM Syenite; Fenite; Fine- to medium-grained Syenite/Fenite: Reddish-orangish to pale dark greyish (alkali feldspar composition), fine- to medium-grained. Poorly magnetic locally. Contains 1–2% magnetite as disseminated grains (mm to plurimm). Moderate pervasive and fracture-controlled hematite–potassic alteration. Potential fenitization. Low scintillometer background (80–120 CPS).
49.10	55.40	HM03; FK03 Hematization 3; Potassic feldspar 3 Moderate pervasiv and fractures-controlled hematite-potassic alteration.
49.10	55.40	MG01.5 Magnetite 1.5% 1-2% magnetite as disseminated grains mm to pluri-mm
49.90	50.30	I2D; GG

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Description

			<p>Syenite 40°; Coarse-grained Syenite, orange to pinkish, coarse grained, not magnetic, composed by orange alkali feldspar, 1-2 % of mafic minerals (amphibole mostly), traces of millimetric sharp magnetite cluster. No scintillometer signal. Upper contact sharp at 30 tca and lower contact sharp orientated at 55 tca.</p>
55.40	55.90	BR; ZF	
			<p>Breccia 40°; Fault zone Fault breccia: Heterogeneous syenitic fault breccia with angular syenitic fragments hosted in a fine dark-grey to black matrix. No HCl reaction. Strong chlorite near the upper contact and potassic to hematite alteration in the rest of the fault zone. Borders orientated at 40° tca.</p>
55.40	55.90	CL05; HM03; FK03	
			<p>Chloritization 5; Hematization 3; Potassic feldspar 3 Strong chlorite next to the upper contact and moderate potassic to hematite alteration in the rest of the fault part</p>
55.40	55.90	ZF05	
			<p>Fault zone5 40° Heterogeneous, syenitic fault breccia with angular syenitic fragments encased in a fine dark grey matrix. Borders are orientated at 40 tca.</p>
55.90	64.60	I2D; GF-GM	
			<p>Syenite; Fine- to medium-grained Syenite: Pinkish to brown, appears bleached by strong hematite–potassic alteration of feldspar. Very little visible texture; glassy aspect. Not magnetic. Locally 2–3% mafic millimetric patches (mostly black to dark-green amphibole). Strongly fractured interval. Scintillometer reading: 150 CPS.</p>
55.90	64.60	FK05; HM05	
			<p>Potassic feldspar 5; Hematization 5 Strong pervasive hematite-potassic feldspar alteration</p>
55.90	64.80	FA	
			<p>Fractured Moderately to strongly fractured interval.</p>
64.60	71.70	I2D; GM	
			<p>Syenite; Medium-grained Syenite: Dark greyish with orange and reddish hues, heterogeneous appearance, medium-grained, weakly but consistently magnetic. Low scintillometer background (100–115 CPS). Contains 3–4% disseminated millimetric magnetite grains. Weak to moderate pervasive fenitization and weak pervasive hematite. Weak foliation at 45° tca. XRF readings on deep red halos: 0.18% Ce, 0.13% La, 0.12% Nd, 796 ppm Th. Lower contact diffuse. XRF reading on magnetite: up to 900 ppm Ce, 500 ppm La, 400 ppm Nd. XRF on mafic patches (biotite–amphibole–magnetite): up to 810 ppm Ce, 480 ppm La, 400 ppm Nd</p>
64.60	71.70	FN02; HM01	
			<p>Fenitization 2; Hematization 1 Weak to moderate pervasiv fenitization alteration and weak pervasiv hematite.</p>
64.60	71.70	MG03.5	
			<p>Magnetite 3.5% 3-4 % disseminated mm magnetite grain</p>

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Description

71.70	96.30	I2D; FN; GM-GG Syenite; Fenite; Medium- to coarse-grained Syenite: Pink to reddish, medium- to coarse-grained syenite. Fifty percent of the interval consists of 15–20% patches of mafic minerals (amphibole, biotite, magnetite), with a K-feldspar background. Weakly magnetic, with 2–3% disseminated magnetite grains. Weak to moderate pervasive fenitization and hematization. Locally, dark reddish matte minerals return anomalous REE grades, including Nd 610 ppm, Ce 1780 ppm, La 1260 ppm, Nb 1158 ppm and Th 796 ppm at 71.80 m. Another occurrence consists of pluricentimetric purplish vitreous minerals showing dark blue-purplish fluorescence; XRF indicates ~40% Ca (interpreted as fluorite). This fluorite contains an orange-reddish millimetric stick (1 cm × 2 mm) returning: Pr 0.2%, Cr 0.6%, Ce 2.2%, La 1.8%. Fluorite alone yields 500 ppm Ce and 500 ppm La with minor Nd and Pr. Magnetite is slightly enriched (160 ppm Ce and La). Low scintillometer background (100–150 cps). Lower contact sharp at 50° TCA.
71.70	96.30	FN02; HM02 Fenitization 2; Hematization 2 Weak to moderate pervasiv fenitization and hematization alteration
71.70	81.00	MG02.5; Flr00.01 Magnetite 2.5%; Fluorite 0.01% 2-3% disseminated magnetite grains with locally traces of pluri cm purplish fluorite
96.30	104.75	I2D; I3A Syenite; Gabbro Syenite: Interval composed of reddish, medium- to coarse-grained syenite injected by ~25% pluridecimetric, fine- to medium-grained gabbroic dykes. The gabbroic dykes are moderately to strongly magnetic; the syenite is weakly magnetic due to 1–2% disseminated magnetite. Gabbroic intrusions are amphibolitized and biotitized. Weak to moderate pervasive fenitization and hematization. Low scintillometer background (100–150 cps). XRF on black matte patches in some gabbroic intervals returned 0.14% Ce, 0.11% La, 210 ppm Pr. Overall REE content is low. Lower contact sharp at 50° TCA.
96.30	104.75	HM02; FN02 Hematization 2; Fenitization 2 Weak to moderate pervasiv fenitization and hematization alteration
96.30	104.75	MG01.5 Magnetite 1.5% 1-2 % of disseminated magnetite grains
104.75	144.85	I2D; GG Syenite; Coarse-grained Syenite: Greyish to pinkish-orangish, heterogeneous, coarse-grained syenite composed of K-feldspar with 10–15% homogeneously distributed mafic patches (amphibole, possible pyroxene, biotite). Weakly magnetic, with 2–3% disseminated magnetite replacing amphibole. From 140.70 to 144.85 m: ~0.5% mm- to cm-scale pale yellow titanite (?) or pyroxene (?). Weak pervasive fenitization (?) and hematization. Low scintillometer background (100–150 cps). XRF on mafic patches (amphibole, magnetite) returned 0.12% Ce, 580 ppm La, 780 ppm Nd, 750 ppm Nd (check for duplication). Some black amphibole returned up to 400 ppm Ce, 360 ppm La, 190 ppm Nd. Lower contact sharp at 70° TCA.
104.75	144.85	HM01

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Description

			<p>Hematization 1 Weak pervasiv fenitization ? and hematization alteration</p>
104.75	140.70	MG02.5	
			<p>Magnetite 2.5% 2-3 % of disseminated magnetite grains in replacement of amphibole minerals</p>
112.20	112.50	I2D; GF	
			<p>Syenite 60°; Fine-grained Syenite: Dark, grey fine grained, 5 % of mm pinkish felspar minerals, strong hardness, not magnetic, no reaction with HCl, no scintillometer signal, no mineralization and no deformation. Upper and lower contact are sharp and orientated at 60 tca.</p>
139.70	140.70	I2D; GF	
			<p>Syenite 60°; Fine-grained Dark grey, fine grained, strong hardness, not magnetic, no reaction with HCl, no scintillometer signal, no mineralization and no deformation. Upper and lower contact are sharp and orientated at 60 tca.</p>
140.70	144.85	Ttn00.5	
			<p>Titanite 0.5% 2-3 % of disseminated magnetite grains by replacement of amphibole minerals (ghost artefact) and presence of 0,5 % of mm to cm pale yellowish titanite.</p>
144.85	151.20	I2D; GG	
			<p>Syenite; Coarse-grained Syenite: Pinkish to grey, coarse-grained syenite injected by ~20% low-angle gabbroic dykes, medium-grained and weakly magnetic. Low scintillometer background (100–150 cps). Hematization, K-feldspar alteration, amphibolitization and biotitization. Very weak fenitization (?). Lower contact sharp at 65° TCA.</p>
144.85	151.20	HM02; FK02; AM01; BO01	
			<p>Hematization 2; Potassic feldspar 2; Amphibolitization 1; Biotitization 1 Hematization, K-feld alteration, amphibolitisation and biotitisation. Very weak fenite (?).</p>
151.20	159.70	I3A; GM	
			<p>Gabbro 55°; Medium-grained Gabbro: Grey, medium-grained, injected by pluridecimeteric pink syenite dykes at low core angle (~3°). Composed of feldspar, amphibole and biotite, with traces of finely disseminated magnetite giving very weak magnetism. Moderate disseminated biotitization. No scintillometer background. Lower contact sharp at 45° TCA with coarse-grained pinkish syenite.</p>
151.20	159.70	BO03; AM	
			<p>Biotitization 3; Amphibolitization Moderate disseminated biotitization alteration. Amphibolitization.</p>
159.70	211.15	I2D; GG	
			<p>Syenite; Coarse-grained Syenite: Greyish with pinkish background, coarse-grained, composed of K-feldspar and 10–15% homogeneously distributed mafic patches. Mostly weakly magnetic, with 1–2% disseminated magnetite and local 5–10% coarse magnetite associated with coarse amphibole patches, with minor carbonates. Rare magnetite-rich injections. Very weak pervasive fenitization introducing amphibole in the unit. Overall poorly</p>

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Description

			altered. From 194.50 to 196.85 m: moderate alteration by vein-controlled (reddish coarse-grained syenite, plurimic, low angle 30–40° TCA) and percolative K-feldspar alteration. From 209.00 to 209.70 m: syenite composed of coarse- and medium-grained green amphibole clusters with finely disseminated magnetite and a single 2 × 2 mm purplish fluorite grain. Low scintillometer background (100–150 cps). Lower contact diffuse with grey syenite.
159.70	194.50	FN01	
		Fenitization 1	Very weak pervasive fenitization ? K, hematite, amphibole.
159.70	162.75	MG01.5	
		Magnetite 1.5%	1-2 % of disseminated magnetite grains
194.50	196.85	FK03; FN	
		Potassic feldspar 3; Fenitization	The unit is moderately altered by vein-controlled and percolation K-felspar alteration
196.85	209.00	FN01	
		Fenitization 1	Very weak pervasive fenitization ? K, hematite, amphibole.
209.00	209.70	AM03	
		Amphibolitization 3	From 209 to 209,70 m, syenite is composed by coarsed and medium green cluster of amphibole
209.50	209.55	Flr00.01; MG02	
		Fluorite 0.01%; Magnetite 2%	2 % of finely disseminated magnetite and one 2*2 mm purplish fluorite minerals.
209.70	211.15	FN02	
		Fenitization 2	Weak pervasive fenitization ?
211.15	300.00	I2D	
		Syenite	Syenite: Rather homogeneous, mainly grey with local reddish-pinkish intervals, medium-grained, composed of alkaline feldspar (3–5% K, 1% Ca) with 20–25% homogeneously distributed mafic patches (biotite/phlogopite ± amphibole ± magnetite). Mostly weakly magnetic, with 1–2% fine magnetite. Massive, very hard rock, possibly slightly silicified. Low scintillometer background (100–150 cps). Local fluorite-carbonate veinlets at 262.75 m; fluorite contains Ce 0.8%, La 0.8%, Nd 0.2%. Moderately foliated zones at very low angle marked by aligned biotite from 274.85–276.20 m and 277–278 m. EOH.
211.15	300.00	BO03; Si01	
		Biotitization 3; Silicification 1	Moderate disseminated biotitization forming mm patches. Amphibole (?), slight chloritization. Silicification (??).
246.00	247.20	I2D; GG	
		Syenite 50°; Coarse-grained	Pinkish syenite, coarse-grained, composed by K-felspar background and heterogeneously ditributed 10 % of medium to coarse (cm)

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Description		
254.60	257.15	<p>patches and clusters of green amphibole. Weakly to moderately magnetic where magnetite inclusions are present in amphibole crystals. Upper and lower contact are sharp and orientated approximately at 50 tca.</p> <p>I2D; GG</p> <p>Syenite 65°; Coarse-grained</p> <p>Pinkish syenite, coarse-grained, composed by K-felspar background and heterogeneously distributed 10 to 20 % of medium to very coarse (pluri cm) patches and clusters of green amphibole. The size of amphibole patches increases as it approaches the center. Weakly to moderately magnetic where magnetite inclusions are present in amphibole crystals. In this unit the amphibole are included by fine grained magnetite and carbonate. Upper contact sharp at 70 tca and lower contact sharp at 60 tca.</p>
266.10	266.30	<p>I2D; GG</p> <p>Syenite 65°; Coarse-grained</p> <p>Pinkish syenite, coarse-grained, composed by K-felspar background and heterogeneously distributed 10 % of medium to coarse (cm) patches and clusters of green amphibole. Weakly to moderately magnetic where magnetite inclusions are present in amphibole crystals. Upper and lower contact are sharp and orientated approximately at 60-65 tca.</p>
274.25	274.85	<p>I2D; GG</p> <p>Syenite 45°; Coarse-grained</p> <p>Pinkish syenite, coarse-grained, composed by K-felspar background and heterogeneously distributed 5 % of coarse (cm) patches of green amphibole included by mm magnetite (3 %) and carbonate. Weakly to moderately magnetic where magnetite inclusions are present in amphibole crystals. Upper and lower contact are sharp and orientated approximately at 45 tca.</p>
274.25	274.85	<p>MG03</p> <p>Magnetite 3%</p> <p>3 % of mm to cm inclusion of magnetite in amphibole crystals</p>
274.85	276.20	<p>FO03</p> <p>Foliated 3 10°</p> <p>Moderately foliated zone at very low angle, marked by biotite minerals alignment from 274,85 to 276,20 m</p>
277.00	278.00	<p>FO03</p> <p>Foliated 3 10°</p> <p>Moderately foliated zone at very low angle, marked by biotite minerals alignment from 277 to 278 m</p>
278.70	280.85	<p>I2D; GG</p> <p>Syenite 45°; Coarse-grained</p> <p>Pinkish syenite, coarse-grained, composed by K-felspar background and heterogeneously distributed 5 % of coarse (cm) patches of green amphibole included by mm magnetite (3 %) and carbonate. Weakly to moderately magnetic where magnetite inclusions are present in amphibole crystals. Upper and lower contact are sharp and orientated approximately at 45 tca.</p>
278.70	280.85	<p>MG03</p> <p>Magnetite 3%</p> <p>3 % of mm to cm inclusion of magnetite in amphibole crystals</p>
287.15	287.65	<p>I2D; GF</p> <p>Syenite 65°; Fine-grained</p> <p>Beigish pale syenite, fine-grained, composed by white K-felspar xenomorph, sharp and milimetric crystals in felspar background and 5 %</p>

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Description

of fine mm green amphibole spots. Weakly mag. Upper and lower contact are sharp and orientated respectively at 70 and 60 tca.

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Assay - Sample						
From	To	Sample number	TREO (sum lanthanide) (%)	CeO2_Calc (%)	La2O3_Calc (%)	Nd2O3_Calc (%)
31.30	32.00	L787003	err	err	err	err
32.00	33.00	L787004	err	err	err	err
33.00	34.20	L787005	err	err	err	err
34.20	35.00	L787006	err	err	err	err
35.00	36.00	L787007	err	err	err	err
36.00	37.10	L787008	err	err	err	err
37.10	37.60	L787009	err	err	err	err
37.60	39.00	L787010	err	err	err	err
39.00	40.00	L787012	err	err	err	err
40.00	41.20	L787013	0.04	0.017	0.008	0.007
41.20	42.00	L787014	0.06	0.030	0.014	0.011
42.00	43.50	L787015	0.08	0.036	0.016	0.015
43.50	45.00	L787016	0.06	0.026	0.013	0.009
45.00	46.30	L787017	err	err	err	err
46.30	47.10	L787018	err	err	err	err
47.10	48.10	L787019	err	err	err	err
48.10	49.10	L787020	err	err	err	err
49.10	49.80	L787021	err	err	err	err
49.80	50.30	L787022	err	err	err	err
50.30	51.00	L787023	err	err	err	err
51.00	52.50	L787024	err	err	err	err
52.50	54.00	L787025	err	err	err	err
54.00	55.40	L787026	err	err	err	err
55.40	55.90	L787027	err	err	err	err
55.90	57.00	L787028	err	err	err	err
57.00	58.50	L787029	err	err	err	err
58.50	60.00	L787030	err	err	err	err
60.00	61.50	L787031	err	err	err	err
61.50	63.00	L787032	err	err	err	err
63.00	64.00	L787034	err	err	err	err
64.00	64.60	L787035	err	err	err	err
64.60	66.00	L787036	err	err	err	err
66.00	67.50	L787037	err	err	err	err
67.50	69.00	L787038	err	err	err	err
69.00	70.50	L787039	err	err	err	err
70.50	71.70	L787040	err	err	err	err

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Assay - Sample						
From	To	Sample number	TREO (sum lanthanide) (%)	CeO2_Calc (%)	La2O3_Calc (%)	Nd2O3_Calc (%)
71.70	73.00	L787042	err	err	err	err
73.00	74.00	L787043	err	err	err	err
74.00	75.00	L787044	err	err	err	err
75.00	76.50	L787045	err	err	err	err
76.50	78.00	L787046	err	err	err	err
78.00	79.50	L787047	err	err	err	err
79.50	81.00	L787048	err	err	err	err
81.00	82.50	L787049	err	err	err	err
82.50	84.00	L787051	0.07	0.033	0.017	0.012
84.00	85.50	L787052	0.10	0.049	0.027	0.015
85.50	87.00	L787053	0.05	0.024	0.013	0.008
87.00	88.50	L787054	0.05	0.022	0.012	0.008
88.50	90.00	L787055	0.03	0.011	0.006	0.005
90.00	91.50	L787056	0.02	0.009	0.005	0.003
91.50	93.00	L787057	0.02	0.008	0.005	0.003
93.00	94.50	L787058	0.03	0.012	0.007	0.004
94.50	95.30	L787059	0.07	0.034	0.021	0.009
95.30	95.80	L787060	0.18	0.087	0.051	0.022
95.80	96.30	L787062	0.05	0.024	0.013	0.007
96.30	97.00	L787063	0.08	0.034	0.016	0.015
97.00	98.00	L787064	0.03	0.013	0.007	0.006
114.00	115.50	L787065	err	err	err	err
115.50	117.00	L787066	err	err	err	err
135.00	136.50	L787067	err	err	err	err
136.50	138.00	L787068	err	err	err	err
138.00	139.00	L787069	err	err	err	err
139.00	139.70	L787070	err	err	err	err
139.70	140.70	L787071	err	err	err	err
140.70	142.00	L787073	err	err	err	err
142.00	143.00	L787074	err	err	err	err
143.00	144.00	L787075	err	err	err	err
144.00	144.85	L787076	err	err	err	err
144.85	146.00	L787077	err	err	err	err
156.00	157.50	L787078	err	err	err	err
157.50	159.00	L787079	err	err	err	err
159.00	159.70	L787081	0.05	0.023	0.012	0.008

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Assay - Sample						
From	To	Sample number	TREO (sum lanthanide) (%)	CeO2_Calc (%)	La2O3_Calc (%)	Nd2O3_Calc (%)
159.70	160.50	L787082	0.05	0.022	0.012	0.007
160.50	162.00	L787083	0.04	0.016	0.008	0.006
177.00	178.50	L787084	err	err	err	err
178.50	180.00	L787085	err	err	err	err
180.00	181.50	L787086	err	err	err	err
193.00	194.50	L787087	err	err	err	err
194.50	196.00	L787088	err	err	err	err
196.00	196.85	L787089	err	err	err	err
196.85	198.00	L787090	err	err	err	err
208.00	209.00	L787092	0.09	0.041	0.022	0.013
209.00	210.00	L787093	0.31	0.151	0.070	0.050
210.00	211.15	L787094	err	err	err	err
211.15	212.50	L787095	err	err	err	err
212.50	214.00	L787096	err	err	err	err
228.00	229.50	L787097	err	err	err	err
229.50	231.00	L787098	err	err	err	err
231.00	232.50	L787099	err	err	err	err
252.00	253.10	L787100	err	err	err	err
253.10	254.60	L787101	err	err	err	err
254.60	256.00	L787103	err	err	err	err
256.00	257.15	L787104	err	err	err	err
257.15	258.50	L787105	err	err	err	err
258.50	260.00	L787106	err	err	err	err
260.00	261.50	L787107	err	err	err	err
261.50	262.50	L787108	0.08	0.036	0.018	0.015
262.50	263.00	L787109	0.20	0.094	0.060	0.025
263.00	264.00	L787110	0.07	0.033	0.017	0.013
264.00	265.00	L787111	err	err	err	err
273.50	274.25	L787112	err	err	err	err
274.25	274.85	L787114	err	err	err	err
274.85	276.20	L787115	err	err	err	err
276.20	277.00	L787116	err	err	err	err
277.00	278.00	L787117	err	err	err	err
278.00	278.70	L787118	err	err	err	err
278.70	280.00	L787119	err	err	err	err
280.00	280.85	L787120	err	err	err	err

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Assay - Sample

From	To	Sample number	TREO (sum lanthanide) (%)	CeO2_Calc (%)	La2O3_Calc (%)	Nd2O3_Calc (%)
280.85	282.00	L787121	err	err	err	err
294.00	295.50	L787123	err	err	err	err
295.50	297.00	L787124	err	err	err	err
297.00	298.50	L787125	err	err	err	err
298.50	300.00	L787126	err	err	err	err

Survey: CH-25-02	Claims title: 763277	Section:	
Contractor: Chibougamau Drilling	Township: Clay	Level: Surface	
Author: Batyste Perrin, M.Sc.A.; Julien Huguet, P.Eng	Range:	Work place: Clay Howells	
	Lot:	Provincial Grid Cell: 42G16A089	
	Start date: 2025-09-18	Description date: 2025-09-19	
	End date: 2025-09-21		
Collar:			
UTM NAD83 Zone 17			
Azimuth: 150.00°	East	423062.00	
Dip: -45.00°	North	5518568.00	
Length: 222.00 (m)	Elevation	209.30 (m)	
Down hole survey:			
Type	Depth	Azimuth	Dip
Collar	0.00	150.00°	-45.00°
Gyro_multi	3.00	149.89°	-43.66°
Gyro_multi	6.00	149.73°	-43.97°
Gyro_multi	9.00	149.86°	-44.09°
Gyro_multi	12.00	149.93°	-44.64°
Gyro_multi	15.00	149.83°	-45.27°
Gyro_multi	18.00	149.85°	-45.26°
Type	Depth	Azimuth	Dip
Gyro_multi	21.00	149.79°	-45.13°
Gyro_multi	24.00	149.74°	-45.12°
Gyro_multi	27.00	149.78°	-45.07°
Gyro_multi	30.00	149.89°	-45.10°
Gyro_multi	33.00	149.65°	-45.14°
Gyro_multi	36.00	149.79°	-45.18°
.....
Nombre d'échantillons:	91	Nombre d'échantillons roche totale:	8
Nombre d'échantillons QAQC:	11		
Longueur totale échantillonnée:	102.25 (m)		
Description:			
1 round, 18 shell. water from CH-25-01 casing.			
Core storage: Jonquière (Québec, Canada) at Laurentia Exploration office			
Artesian : No			
Casing: Left in place. Cap installed, screwed on tube.			
Core size: BTW	Cemented: No		



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Down hole survey					
Type	Depth	Azimuth	Invalid...	Dip	Invalid...
Gyro_multi	39.00	149.71°	No	-45.22°	No
Gyro_multi	42.00	149.79°	No	-45.14°	No
Gyro_multi	45.00	149.68°	No	-45.12°	No
Gyro_multi	48.00	149.76°	No	-45.13°	No
Gyro_multi	51.00	149.59°	No	-45.22°	No
Gyro_multi	54.00	149.78°	No	-45.25°	No
Gyro_multi	57.00	149.63°	No	-45.14°	No
Gyro_multi	60.00	149.60°	No	-45.14°	No
Gyro_multi	63.00	149.68°	No	-45.18°	No
Gyro_multi	66.00	149.45°	No	-45.15°	No
Gyro_multi	69.00	149.43°	No	-45.32°	No
Gyro_multi	72.00	149.37°	No	-45.21°	No
Gyro_multi	75.00	149.34°	No	-45.15°	No
Gyro_multi	78.00	149.45°	No	-45.18°	No
Gyro_multi	81.00	149.60°	No	-45.19°	No
Gyro_multi	84.00	149.62°	No	-45.16°	No
Gyro_multi	87.00	149.53°	No	-45.12°	No
Gyro_multi	90.00	149.77°	No	-45.27°	No
Gyro_multi	93.00	149.65°	No	-45.34°	No
Gyro_multi	96.00	149.51°	No	-45.34°	No
Gyro_multi	99.00	149.51°	No	-45.28°	No
Gyro_multi	102.00	149.63°	No	-45.31°	No
Gyro_multi	105.00	149.65°	No	-45.29°	No
Gyro_multi	108.00	149.56°	No	-45.23°	No
Gyro_multi	111.00	149.45°	No	-45.21°	No
Gyro_multi	114.00	149.43°	No	-45.27°	No
Gyro_multi	117.00	149.55°	No	-45.35°	No
Gyro_multi	120.00	149.46°	No	-45.22°	No
Gyro_multi	123.00	149.41°	No	-45.03°	No
Gyro_multi	126.00	149.51°	No	-45.19°	No
Gyro_multi	129.00	149.48°	No	-45.27°	No
Gyro_multi	132.00	149.36°	No	-45.16°	No
Gyro_multi	135.00	149.33°	No	-45.19°	No
Gyro_multi	138.00	149.51°	No	-45.35°	No
Gyro_multi	141.00	149.38°	No	-45.35°	No
Gyro_multi	144.00	149.52°	No	-45.28°	No
Gyro_multi	147.00	149.62°	No	-45.34°	No

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Down hole survey

Type	Depth	Azimuth	Invalid...	Dip	Invalid...
Gyro_multi	150.00	149.52°	No	-45.27°	No
Gyro_multi	153.00	149.67°	No	-45.11°	No
Gyro_multi	156.00	149.63°	No	-45.27°	No
Gyro_multi	159.00	149.49°	No	-45.20°	No
Gyro_multi	162.00	149.51°	No	-45.15°	No
Gyro_multi	165.00	149.51°	No	-45.37°	No
Gyro_multi	168.00	149.45°	No	-45.25°	No
Gyro_multi	171.00	149.35°	No	-45.18°	No
Gyro_multi	174.00	149.36°	No	-45.21°	No
Gyro_multi	177.00	149.46°	No	-45.03°	No
Gyro_multi	180.00	149.45°	No	-45.14°	No
Gyro_multi	183.00	149.44°	No	-45.10°	No
Gyro_multi	186.00	149.31°	No	-45.14°	No
Gyro_multi	189.00	149.30°	No	-45.24°	No
Gyro_multi	192.00	149.28°	No	-45.09°	No
Gyro_multi	195.00	149.22°	No	-45.12°	No
Gyro_multi	198.00	149.19°	No	-45.09°	No
Gyro_multi	201.00	149.38°	No	-44.98°	No
Gyro_multi	204.00	149.25°	No	-45.00°	No
Gyro_multi	207.00	149.27°	No	-45.01°	No
Gyro_multi	210.00	149.29°	No	-44.91°	No
Gyro_multi	213.00	149.24°	No	-44.94°	No
Gyro_multi	216.00	149.30°	No	-44.89°	No
Gyro_multi	219.00	149.24°	No	-44.83°	No
Gyro_multi	222.00	149.25°	No	-44.83°	No
Gyro_multi	223.00	149.31°	No	-44.76°	No

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Description		
0.00	8.65	<p>MT</p> <p>Overburden</p> <p>Casing</p>
8.65	63.90	<p>I2D; GG</p> <p>Syenite; Coarse-grained</p> <p>Syenite: Greyish-beige with a pinkish background, locally darker depending on mafic content; coarse-grained, massive, with a vitreous texture. Composed of a K-feldspar background (30% Si, 9–10% Al, 4–5% K, ~1.5% Ca) and 10–15% to 20–25% millimetric to centimetric spotted mafic minerals (amphibole–biotite with magnetite inclusions). Locally weakly magnetic. Strong hardness due to coarse massive feldspar (quartz <1%). Magnetite occurs as 1–2% disseminated grains from mm to plurimm. Poorly altered (slight K-feldspar, Na alteration). Low scintillometer background, with very local Th anomalies up to 250 cps associated with purple fluorite. A small fault is present from 22.90 to 23.00 m. At 17.25 m, a reddish-orange mm-scale mineral returned 380 ppm Nd, 0.34% Th, 0.12% Ce and 0.10% La. From 35.20 to 35.60 m and 35.70 to 36.00 m, texture becomes more homogeneous, losing mafic patches, with a more reddish color (K-feldspar alteration?). About 0.5% disseminated purple fluorite contains 0.46% Ce, 0.30% La, 0.17% Nd with minor other REE. Clusters of amphibole include orange-reddish mm-scale spots returning 0.54% La, 0.76% Ce, 0.10% Rb and 0.23% Nd. These REE minerals often display radial fracture patterns in surrounding feldspar (radioactivity effect?). Strong pervasive K-feldspar alteration (dark red) from 55.40 to 55.65 m. One occurrence of Po–Py–amphibole fracture. Lower contact sharp at 70° TCA.</p>
8.65	35.20	<p>MG01</p> <p>Magnetite 1%</p> <p>1-2 % of magnetite as disseminated grains mm to pluri-mm.</p>
22.90	23.00	<p>ZF03</p> <p>Fault zone3 30°</p> <p>Small fault localized from 22,90 to 23 m orientated at 30 tca.</p>
35.20	35.60	<p>FK03</p> <p>Potassic feldspar 3</p> <p>Locally from 35,20 to 35,60 m, texture changed losing mafic patches, more redish color (K-felpar alteration ?)</p>
35.20	35.60	<p>Fir00.5</p> <p>Fluorite 0.5%</p> <p>Locally from 35,20 to 35,60 m, texture changed losing mafic patches, with 0,5 % of disseminated purple fluorine is composed by 0.46 % Ce, 0.30 % La, 0.17 % Nd with minor amount of other REE and cluster of amphibole included by orange-redish spots (less than mm) composed by 0.54 % La, 0.76 % ce, 0.1 % Rb and 0.23 % Nd.</p>
35.60	45.70	<p>MG01</p> <p>Magnetite 1%</p> <p>1-2 % of magnetite as disseminated grains mm to pluri-mm.</p>
35.70	36.00	<p>FK03</p> <p>Potassic feldspar 3</p> <p>texture changed losing mafic patches, more redish color (K-felpar alteration ?)</p>
55.40	55.65	<p>FK04</p> <p>Potassic feldspar 4</p>

Laurentia Exploration Inc.

Description

63.90	71.15	I2D; GF	Strong pervasiv K-felspar alteration (dark red color) from 55,40 to 55,65 m
			Syenite 70°; Fine-grained
			Syenite: Grey to pale pink, fine-grained, massive texture. Mostly composed of mm to plurimm K-feldspar crystals with 25% submillimetric amphibole spots. Non-magnetic with traces of quartz. Weak foliation at ~65° TCA. Low scintillometer background (100–150 cps). Traces of disseminated and fracture-controlled purple fluorite contain 0.36% Ce, 0.10% Nd and 0.31% La. Lower contact sharp at 70° TCA.
63.90	71.15	FO02	
			Foliated2 65°
			Weakly pervasivly foliated at 65 tca approximatly
63.90	71.15	Flr00.01	
			Fluorite 0.01%
			Traces of disseminated and fractures controlled purple-fluorine containing 0,36 % ce, 0,1 % Nd and 0,31 % La.
71.15	85.80	I2D; GG	
			Syenite; Coarse-grained
			Syenite: Greyish-green, homogeneous, coarse-grained, massive and vitreous. Weakly magnetic due to 1–2% magnetite as disseminated grains and clusters (often up to 5 mm). Composed of whitish to greenish K-feldspar (up to 2–3 cm) and 5–10% irregular plurimm amphibole (up to 1 cm). Contains 2–3% beige-yellow irregular to subrounded minerals, likely replacing amphibole cores. Traces of <1 mm carbonate fractures oriented 20–30° TCA. Low scintillometer background (100–150 cps). Traces of mm Po and fluorite locally disseminated. Lower contact sharp at 40° TCA. A mm-scale titanite cluster returned 0.25% Ce, 0.10% Nd, 0.10% La (XRF).
71.15	85.80	MG01.5	
			Magnetite 1.5%
			5-10 % of irregular millimetric amphibole spots, injected by magnetite (1-2 %
85.80	90.90	I2D; GM-GG	
			Syenite; Medium- to coarse-grained
			Syenite: Pinkish with dark grey pluricentimetric irregular patches; medium- to coarse-grained and heterogeneous. No HCl reaction. Very weak to weak magnetism (1–2% disseminated magnetite). Rock mostly formed of K-feldspar crystals up to 2 cm. Mafic patches consist mainly of biotite with amphibole. Magmatic texture with fine-grained mafic patches (amphibole + biotite) over pluridecimetric zones composing 5–10% of the interval. Comprised of pale pink K-feldspar and 5–10% irregular millimetric amphibole spots. Mafic minerals are mostly finely disseminated biotite with minor amphibole. Low scintillometer background (100–150 cps). Lower contact diffuse and not measurable.
85.80	90.90	BO02	
			Biotitization 2
			Weak disseminated biotitization.
90.90	95.85	I2D; GF	
			Syenite; Fine-grained
			Syenite: Light pinkish, fine-grained, homogeneous, non-magnetic. Composed of a K-feldspar background with 5–10% amphibole-biotite spots. Low scintillometer background (100–150 cps). Biotite fracture set (2–3%) oriented 40–50° TCA. Rock color changes from grey to progressively pinkish approaching the lower contact. Lower contact progressive with coarse-grained syenite.

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Description

95.85	102.75	I2D; GG Syenite; Coarse-grained Syenite: Light pinkish, coarse-grained, heterogeneous, varying from medium-grained bands to pegmatitic injections (very coarse K-feldspar in a K-feldspar matrix with amphibole–biotite interstitial). Mostly non-magnetic. Composed of K-feldspar background and 5–10% amphibole-biotite spots. Local K-feldspar porphyroblasts are present in medium-grained zones; some are more rounded, possibly from thermal erosion. Low scintillometer background (100–150 cps). Lower contact sharp at 60° TCA.
102.75	106.35	I2D; GF-GM Syenite 60°; Fine- to medium-grained Syenite: Dark grey, fine- to medium-grained; primary texture overprinted by pervasive to disseminated moderate biotitization. Mostly non-magnetic. Composed of rounded mm-scale feldspar crystals. Low scintillometer background (100–150 cps). Lower contact sharp at 60° TCA.
102.75	106.35	BO03 Biotitization 3 Pervasiv to disseminated moderate biotitization.
106.35	123.20	I2D; GG Syenite; Coarse-grained Syenite: Greenish, medium-grained, heterogeneous, varying from medium-grained bands to pegmatitic injections (very coarse K-feldspar in a K-feldspar matrix with amphibole–biotite interstitial). Mostly non-magnetic. Composed of K-feldspar background, 1–2% medium quartz grains, and 5–10% amphibole-biotite spots. Local K-feldspar porphyroblasts are present in medium-grained areas; some are rounded (thermal erosion?). Low scintillometer background (100–150 cps). Lower contact sharp and wavy at ~75° TCA.
106.35	123.20	FN03 Fenitization 3 Moderate fenite alteration (contribution of amphibole-biotite and magnetite) bringing by proximal presence of carbonatite dyke.
123.20	125.20	I2D; GF Syenite 65°; Fine-grained Syenite: Light grey to greenish, fine-grained, homogeneous texture with ~3% subrounded mm-scale quartz porphyroblasts. Non-magnetic. Low scintillometer background (100–150 cps). Not mineralized and undeformed. Lower contact sharp at 60° TCA.
125.20	141.35	I2D; GM Syenite; Medium-grained Syenite: Greenish with pinkish patches, medium-grained, heterogeneous texture, alternating amphibolite ± magnetite ± biotite-rich intervals. Mostly weakly to moderately magnetic. Primary syenite texture is obliterated by moderate fenitization (addition of amphibole–biotite–magnetite, locally weak K-feldspar alteration), interpreted as proximal to a carbonatite dyke. Low scintillometer background (100–150 cps). Lower contact sharp at 65° TCA.
125.20	141.35	FN03 Fenitization 3 Primary syenite texture is obliterated by moderate fenite alteration (contribution of amphibole-biotite and magnetite, and locally weak K-feldspar alteration of hosting syenite) bringing by proximal presence of carbonatite dyke
141.35	144.95	I2D; GG

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Description

Syenite 75°; Coarse-grained

Syenite: Light greenish, medium-grained, heterogeneous texture, ranging from medium-grained bands to pegmatitic injections (very coarse K-feldspar in K-feldspar matrix with amphibole-biotite interstitial). Mostly moderately magnetic. Composed of whitish to beige K-feldspar background with 15–20% interstitial amphibole–magnetite spots. Entire interval moderately to strongly altered by pervasive fenitization. From 143.00 to 143.50 m: weak pervasive K-feldspar alteration. Trace titanite minerals occur near the lower contact. Lower contact sharp at 85° TCA.

141.35 143.00 FN04

Fenitization 4

All the interval is moderately to strongly altered by pervasive fenitization. From 143 to 143,50 m, weak pervasive K-feldspar alteration.

143.00 143.50 FN02; FK02

Fenitization 2; Potassic feldspar 2

Weak pervasive K-feldspar alteration and weak fenitization.

143.50 144.95 FN04

Fenitization 4

All the interval is moderately to strongly altered by pervasive fenitization.

144.95 147.30 I4Q; SD

Carbonatite 80°; Saccharoidal

Carbonatite: Whitish to light grey, saccharoidal, equigranular texture composed of ~80% white carbonate and 10–15% finely disseminated magnetite (moderate to strong magnetism). Not deformed, locally poorly bedded. Moderate to strong HCl reaction. No significant radioactivity (<80 cps). No REE mineralization. Lower contact sharp at 80° TCA.

144.95 147.30 MG12.5

Magnetite 12.5%

10-15 % of fine disseminated magnetite

147.30 148.00 I2D; GF

Syenite; Fine-grained

Syenite: Beige to light brown, fine-grained, homogeneous equigranular texture. Composed of beige K-feldspar background with 10–15% submillimetric amphibole spots. Along the lower boundary, moderate percolative carbonatization over ~5 cm. Unit weakly fenitized. Lower contact sharp at 60° TCA.

147.30 147.70 FN02

Fenitization 2

This unit is weakly fenitized

147.70 147.75 CB03

Carbonated 3

Carbonatization is percolated moderately on 5 cm

147.75 148.00 I4Q; SD

Carbonatite 60°; Saccharoidal

Carbonatite, whitish to light greyish, saccharoidal texture, composed by 80 % of white carbonate and 10-15 % of fine disseminated magnetite, giving an strong magnetism of the rock, not deformed. No significant radioactivity signal (<80 CPS). No REE mineralization.

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Description

		Contacts are sharp at 60 tca.
148.00	175.90	I2D; GM-GG Syenite; Medium- to coarse-grained Syenite: Light pink, medium- to coarse-grained, heterogeneous texture with local pegmatitic injections. Mostly weakly magnetic. Mafic mineral bands (amphibole–biotite) are abundant due to moderate to strong fenitization and weak to moderate potassic alteration where primary texture is still visible. Weak foliation at 40–50° TCA. Low scintillometer readings (80–120 cps). Lower contact progressive into non-altered greenish syenite.
148.00	175.90	FN03; FK02 Fenitization 3; Potassic feldspar 2 Mafic minerals bands (amphibole-biotite) are very presents in this unit, causing by moderate to strong fenitization alteration and weak to moderate potassic alteration where primary texture are still present.
148.00	175.90	FO02 Foliated2 45° Weakly foliated at 40-50 tca
151.55	152.10	I1F Aplite 35° Aplitic syenite, light pinkish, aplitic texture, non magnetic, weakly fenitized marking by K-felspar pervasiv alteration and amphibole-biotite disseminated spots orientated at 30-40 tca. Upper contact sharp at 30 tca and lower contact sharp at 40 tca.
175.90	186.15	I2D; GF-GM Syenite; Fine- to medium-grained Syenite: Greyish-green, fine- to medium-grained syenite composed of whitish K-feldspar, beige-yellow minerals, and 10–15% irregular dark green to black amphibole idiomorphic grains or patches with biotite (moderate pervasive fenitization). Magnetism variable from weak to moderate (2–3% disseminated magnetite). Contains 2–3% beige-yellow irregular, angular to subrounded minerals, likely replacing amphibole cores. Low scintillometer background (100–150 cps). Weak local foliation. Lower contact progressive over ~5 cm.
186.15	222.00	I2D; GG Syenite; Coarse-grained Syenite: Homogeneous, greyish–whitish beige with green and pink hues; coarse-grained, massive, vitreous texture. Mainly composed of whitish K-feldspar with 5–10% irregular millimetric amphibole (dark green to black), locally rimmed or cored by magnetite (1–2%), producing weak heterogeneous magnetism. Presence of 3% beige–brown minerals, likely altered amphibole, although cleavage is poorly defined. Some grains show a green amphibole rim, while others appear partially to completely replaced by beige minerals. Low scintillometer background (100–150 cps). Rock is barely altered. 210.65–211.65 m: Pegmatitic pinkish–orangish zone with elevated scintillometer readings (250–300 cps), increased alteration (K, hematite, Na). At 211.20 m, a 3-cm fluorite vein contains ~10% pyrite as plurimm stringers (45° TCA). XRF returns 0.2% Ce and 0.1% La with minor Nd and Pr. EOH at 222 m.

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Assay - Sample						
From	To	Sample number	TREO (sum lanthanide) (%)	CeO2_Calc (%)	La2O3_Calc (%)	Nd2O3_Calc (%)
15.00	16.00	L787129	0.07	0.035	0.018	0.012
16.00	17.00	L787130	0.05	0.025	0.013	0.009
17.00	17.50	L787131	0.08	0.036	0.020	0.011
17.50	18.50	L787132	0.05	0.025	0.013	0.009
18.50	20.00	L787133	0.08	0.037	0.021	0.011
27.00	28.15	L787134	0.05	0.025	0.013	0.009
28.15	28.65	L787135	0.13	0.063	0.034	0.019
28.65	30.00	L787136	0.05	0.025	0.013	0.009
30.00	31.50	L787137	0.05	0.022	0.011	0.008
31.50	33.00	L787138	0.04	0.021	0.011	0.007
33.00	34.00	L787139	0.06	0.027	0.014	0.009
34.00	34.70	L787140	0.04	0.018	0.010	0.006
34.70	35.20	L787142	0.12	0.056	0.031	0.018
35.20	35.70	L787143	0.14	0.067	0.038	0.019
35.70	36.20	L787144	0.08	0.038	0.021	0.012
36.20	37.00	L787145	0.06	0.028	0.015	0.010
37.00	37.90	L787146	0.05	0.023	0.013	0.008
42.50	44.00	L787147	err	err	err	err
44.00	45.00	L787148	err	err	err	err
45.00	45.50	L787149	err	err	err	err
45.50	47.00	L787150	err	err	err	err
47.00	48.50	L787151	err	err	err	err
48.50	49.50	L787153	err	err	err	err
49.50	50.00	L787154	err	err	err	err
50.00	51.00	L787155	err	err	err	err
51.00	52.15	L787156	err	err	err	err
52.15	53.15	L787157	err	err	err	err
53.15	54.65	L787158	err	err	err	err
54.65	55.15	L787159	err	err	err	err
55.15	55.65	L787160	err	err	err	err
55.65	57.00	L787162	err	err	err	err
57.00	58.50	L787163	err	err	err	err
58.50	60.00	L787164	err	err	err	err
60.00	60.50	L787165	err	err	err	err
60.50	62.00	L787166	err	err	err	err
62.00	62.50	L787167	err	err	err	err

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Assay - Sample						
From	To	Sample number	TREO (sum lanthanide) (%)	CeO2_Calc (%)	La2O3_Calc (%)	Nd2O3_Calc (%)
62.50	63.00	L787168	err	err	err	err
63.00	63.90	L787169	err	err	err	err
63.90	65.00	L787170	err	err	err	err
65.00	66.50	L787172	err	err	err	err
66.50	67.40	L787173	err	err	err	err
67.40	67.90	L787174	err	err	err	err
67.90	69.40	L787175	err	err	err	err
84.00	85.00	L787176	err	err	err	err
85.00	85.80	L787177	err	err	err	err
85.80	87.30	L787178	err	err	err	err
87.30	88.80	L787179	err	err	err	err
114.00	115.00	L787181	err	err	err	err
115.00	115.65	L787182	err	err	err	err
115.65	117.00	L787183	err	err	err	err
117.00	118.50	L787184	err	err	err	err
125.20	126.00	L787185	err	err	err	err
126.00	127.50	L787186	err	err	err	err
127.50	129.00	L787187	err	err	err	err
129.00	130.50	L787188	err	err	err	err
130.50	132.00	L787189	err	err	err	err
132.00	133.50	L787190	err	err	err	err
133.50	135.00	L787191	err	err	err	err
135.00	136.50	L787193	0.24	0.113	0.061	0.039
136.50	138.00	L787194	0.15	0.069	0.036	0.025
138.00	139.50	L787195	0.17	0.079	0.042	0.028
139.50	140.60	L787196	0.13	0.063	0.031	0.024
140.60	141.35	L787197	0.16	0.077	0.040	0.027
141.35	142.50	L787198	0.06	0.025	0.014	0.009
142.50	144.00	L787199	0.05	0.021	0.012	0.007
144.00	144.95	L787201	0.08	0.037	0.020	0.013
144.95	146.00	L787202	0.37	0.171	0.078	0.073
146.00	146.80	L787203	0.41	0.193	0.088	0.079
146.80	147.30	L787204	0.31	0.142	0.068	0.059
147.30	148.00	L787205	0.21	0.095	0.047	0.038
148.00	149.00	L787206	0.12	0.054	0.026	0.021
149.00	150.50	L787207	0.07	0.031	0.015	0.011

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Assay - Sample						
From	To	Sample number	TREO (sum lanthanide) (%)	CeO2_Calc (%)	La2O3_Calc (%)	Nd2O3_Calc (%)
150.50	151.55	L787208	0.13	0.059	0.032	0.020
151.55	152.10	L787209	0.03	0.013	0.005	0.006
152.10	153.50	L787211	err	err	err	err
153.50	155.00	L787212	err	err	err	err
155.00	156.50	L787213	err	err	err	err
156.50	158.00	L787214	err	err	err	err
158.00	159.50	L787215	err	err	err	err
159.50	161.00	L787216	err	err	err	err
161.00	162.50	L787217	err	err	err	err
162.50	164.00	L787218	err	err	err	err
164.00	165.50	L787219	err	err	err	err
165.50	167.00	L787220	err	err	err	err
167.00	168.50	L787222	err	err	err	err
209.15	210.65	L787223	err	err	err	err
210.65	211.15	L787224	err	err	err	err
211.15	211.65	L787225	err	err	err	err
211.65	213.00	L787226	err	err	err	err
219.00	220.50	L787227	err	err	err	err
220.50	222.00	L787228	err	err	err	err

Survey: CH-25-04

Claims title: 763276

Section:

Contractor: Forages Chibougamau

Township: Clay

Level: Surface

Author: Batyste Perrin, M.Sc.A.;
Julien Huguet, P.Eng

Range:

Work place: Clay Howells

Lot:

Provincial Cell Grid: 42G16A012

Start date: 2025-09-24

Description date: 2025-09-25

End date: 2025-09-26

Collar

Azimuth: 170.00°
Dip: -65.00°
Length: 225.00 (m)

UTM NAD83 Zone 17

East 424440.00
North 5520204.00
Elevation 208.20 (m)

Down hole survey

Type	Depth	Azimuth	Dip	Type	Depth	Azimuth	Dip
Collar	0.00	170.00°	-65.00°	Gyro_multi	21.00	156.10°	-64.82°
Gyro_multi	3.00	157.20°	-64.94°	Gyro_multi	24.00	156.03°	-64.97°
Gyro_multi	6.00	157.10°	-64.92°	Gyro_multi	27.00	155.86°	-65.04°
Gyro_multi	9.00	157.15°	-64.91°	Gyro_multi	30.00	156.10°	-65.14°
Gyro_multi	12.00	157.06°	-64.90°	Gyro_multi	33.00	156.26°	-65.15°
Gyro_multi	15.00	156.83°	-64.99°	Gyro_multi	36.00	156.50°	-65.03°
Gyro_multi	18.00	156.41°	-64.71°	.....	.....	.....	.....

Nombre d'échantillons: 81
Nombre d'échantillons QAQC: 11
Longueur totale échantillonnée: 97.65 (m)

Nombre d'échantillons roche totale: 8

Description:

1 round, 18" shell, Pumpshak Kapuskasing river 300 m to N.

Core storage: Jonquière (Québec, Canada) at Laurentia Exploration office

Artesian : No

Casing: Left in place. Cap installed, screwed on tube.



Core size: BTW

Cemented: No

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Down hole survey						
Type	Depth	Azimuth	Invalid...	Dip	Invalid...	
Gyro_multi	39.00	156.21°	No	-64.87°	No	
Gyro_multi	42.00	156.14°	No	-64.83°	No	
Gyro_multi	45.00	156.01°	No	-64.90°	No	
Gyro_multi	48.00	155.99°	No	-65.00°	No	
Gyro_multi	51.00	155.99°	No	-65.13°	No	
Gyro_multi	54.00	156.27°	No	-65.04°	No	
Gyro_multi	57.00	156.16°	No	-64.90°	No	
Gyro_multi	60.00	156.12°	No	-64.85°	No	
Gyro_multi	63.00	156.03°	No	-64.98°	No	
Gyro_multi	66.00	155.69°	No	-65.08°	No	
Gyro_multi	69.00	155.78°	No	-65.22°	No	
Gyro_multi	72.00	155.76°	No	-65.16°	No	
Gyro_multi	75.00	155.72°	No	-65.04°	No	
Gyro_multi	78.00	155.66°	No	-64.94°	No	
Gyro_multi	81.00	155.67°	No	-65.03°	No	
Gyro_multi	84.00	155.72°	No	-65.13°	No	
Gyro_multi	87.00	155.80°	No	-65.31°	No	
Gyro_multi	90.00	155.88°	No	-65.25°	No	
Gyro_multi	93.00	155.79°	No	-65.12°	No	
Gyro_multi	96.00	155.78°	No	-65.04°	No	
Gyro_multi	99.00	155.72°	No	-65.10°	No	
Gyro_multi	102.00	155.78°	No	-65.20°	No	
Gyro_multi	105.00	155.86°	No	-65.35°	No	
Gyro_multi	108.00	155.92°	No	-65.27°	No	
Gyro_multi	111.00	155.71°	No	-65.08°	No	
Gyro_multi	114.00	155.70°	No	-64.97°	No	
Gyro_multi	117.00	155.51°	No	-65.07°	No	
Gyro_multi	120.00	155.54°	No	-65.14°	No	
Gyro_multi	123.00	155.49°	No	-65.27°	No	
Gyro_multi	126.00	155.61°	No	-65.20°	No	
Gyro_multi	129.00	155.42°	No	-65.05°	No	
Gyro_multi	132.00	155.45°	No	-65.04°	No	
Gyro_multi	135.00	155.27°	No	-65.16°	No	
Gyro_multi	138.00	155.29°	No	-65.25°	No	
Gyro_multi	141.00	155.38°	No	-65.32°	No	
Gyro_multi	144.00	155.44°	No	-65.23°	No	
Gyro_multi	147.00	155.24°	No	-65.04°	No	

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Down hole survey

Type	Depth	Azimuth	Invalid...	Dip	Invalid...
Gyro_multi	150.00	155.29°	No	-65.00°	No
Gyro_multi	153.00	155.18°	No	-65.11°	No
Gyro_multi	156.00	155.30°	No	-65.28°	No
Gyro_multi	159.00	155.30°	No	-65.39°	No
Gyro_multi	162.00	155.37°	No	-65.30°	No
Gyro_multi	165.00	155.18°	No	-65.10°	No
Gyro_multi	168.00	155.23°	No	-65.06°	No
Gyro_multi	171.00	155.08°	No	-65.14°	No
Gyro_multi	174.00	155.21°	No	-65.25°	No
Gyro_multi	177.00	155.24°	No	-65.31°	No
Gyro_multi	180.00	155.19°	No	-65.23°	No
Gyro_multi	183.00	154.96°	No	-65.01°	No
Gyro_multi	186.00	154.87°	No	-64.99°	No
Gyro_multi	189.00	154.71°	No	-65.05°	No
Gyro_multi	192.00	154.99°	No	-65.11°	No
Gyro_multi	195.00	155.06°	No	-65.16°	No
Gyro_multi	198.00	154.98°	No	-65.12°	No
Gyro_multi	201.00	154.82°	No	-64.92°	No
Gyro_multi	204.00	154.68°	No	-64.93°	No
Gyro_multi	207.00	154.52°	No	-65.03°	No
Gyro_multi	210.00	154.78°	No	-65.10°	No
Gyro_multi	213.00	154.79°	No	-65.14°	No
Gyro_multi	216.00	154.84°	No	-65.08°	No
Gyro_multi	219.00	154.63°	No	-64.93°	No
Gyro_multi	222.00	154.38°	No	-64.88°	No
Gyro_multi	223.00	154.38°	No	-64.88°	No

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Description		
0.00	7.20	<p>MT</p> <p>Overburden</p> <p>Casing</p>
7.20	40.60	<p>I2D; GG</p> <p>Syenite; Coarse-grained</p> <p>Syenite: Greyish in dry core and pinkish-grey in wet core; syenite, coarse-grained, massive, homogeneous. Composed of K-feldspar background with 10–15% mm-scale amphibole patches. Weakly to moderately magnetic due to 1–3% replacement magnetite. Unaltered. Weak foliation at 40–50° TCA. Lower contact sharp at 80° TCA.</p>
7.20	40.60	<p>FO02</p> <p>Foliated2 45°</p> <p>weakly foliated with an coare angle orientated at 40-50 tca</p>
7.20	40.60	<p>MG02</p> <p>Magnetite 2%</p> <p>1-3 % of replacement magnetite</p>
40.60	46.00	<p>I3; GF</p> <p>Mafic intrusive 70°; Fine-grained</p> <p>Mafic intrusive: Black, fine-grained to aphanitic, moderately magnetic with locally strong magnetite bands. Composed of feldspar and mafic minerals (mostly biotite). Geochemistry: 21% Si, 7–8% Al, 10% Fe, 5% Ca, 1.5% Ti, 1.9% K, 0.4% P, 150 ppm Zr. Not deformed. Contains 1–3% fine carbonate veinlets orientated mostly at 30° and 90° TCA. Lower contact sharp at 60° TCA with pinkish syenite.</p>
46.00	52.65	<p>I2D; GG</p> <p>Syenite; Coarse-grained</p> <p>Syenite: Greyish in dry core and pinkish-grey in wet core; syenite, coarse-grained, massive, homogeneous. Composed of K-feldspar background with 10–15% mm amphibole patches. Weakly to moderately magnetic due to 1–3% replacement magnetite. Very weak fracture-controlled carbonatization at 10° TCA. Weak foliation at 40–50° TCA. Lower contact sharp at 60° TCA.</p>
46.00	52.65	<p>CB01</p> <p>Carbonated 1</p> <p>very weakly fractures-controlled carbonatation with an orientation at 10 tca</p>
46.00	52.65	<p>FO02</p> <p>Foliated2 45°</p> <p>weakly foliated with an coare angle orientated at 40-50 tca</p>
52.65	63.80	<p>I2; AP; GF</p> <p>Intermediate intrusive; Aphanitic; Fine-grained</p> <p>Intermediate intrusive: Grey with light reddish bands; aphanitic with vitreous texture to very fine-grained. Locally injected by porphyroblastic zones (mafic matrix with K-feldspar porphyroblasts), oriented at 60° TCA. Matrix composed of quartz–feldspar. Geochemistry: 19–25% Si, 3.6% Al, 5–7% Fe, 3.6% K, 0.35% Ti and 575 ppm Zr. Weak foliation at 50° TCA. Contains 3% finely disseminated pyrite. Weakly magnetic. Potassic alteration from 55.60–56.30 m and 56.40–56.55 m. Traces of hairline carbonate veinlets. Lower contact progressive and diffuse over 5–10 cm into pinkish-grey syenite.</p>
52.65	57.80	<p>FO02</p>

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		Description
		<p>Foliated2 50° weak foliation orientated at 50 tca</p>
52.65	63.80	<p>PY03</p> <p>Pyrite 3% 3 % of finely disseminated Py</p>
55.60	56.30	<p>FK03</p> <p>Potassic feldspar 3 Moderate pervasiv potassic alteration</p>
56.40	56.55	<p>FK03</p> <p>Potassic feldspar 3 Moderate pervasiv potassic alteration</p>
63.80	71.20	<p>I2D; GM</p> <p>Syenite; Medium-grained Syenite: Dark grey with pinkish background; medium-grained, massive, homogeneous. Composed of pinkish K-feldspar mixed with 5–10% finely disseminated magnetite and 15–20% mm amphibole patches. Moderately magnetic. Weak foliation at 60° TCA. The lower boundary is marked by magnetite-rich bands from 70.70 to 71.20 m. Low scintillometer readings. Traces of millimetric carbonate veinlets (orange/reddish carbonates, no REE). Moderate pervasive to interstitial potassic alteration associated with possible fenitization. Lower contact sharp at 60° TCA.</p>
63.80	71.20	<p>FK03; FN03</p> <p>Potassic feldspar 3; Fenitization 3 Moderate pervasiv to interstitial potassic alteration associated with fenitization ?</p>
63.80	71.20	<p>FO01</p> <p>Foliated1 60° weakly foliated with an coare angle orientated at 60 tca.</p>
63.80	71.20	<p>MG07.5</p> <p>Magnetite 7.5% 5-10 % of finely disseminated magnetite</p>
71.20	114.00	<p>I2D; GG</p> <p>Syenite; Coarse-grained Syenite: Pinkish syenite, coarse-grained, massive, homogeneous texture. Composed of pinkish K-feldspar mixed with 10–15% mm- to cm-scale amphibole patches, locally associated with 1–2% replacement magnetite producing weak heterogeneous magnetism. Weak foliation at 60° TCA. Large patches of green amphibole (90%) – magnetite (10%) assemblage occur from 85.25 to 85.95 m, with magnetite containing up to 1% TREE. Low scintillometer signal. Moderate pervasive to interstitial potassic alteration, possibly related to fenitization. Lower contact sharp at 60° TCA.</p>
85.25	85.95	<p>MG10; REE Mineral00.1</p> <p>Magnetite 10%; REE Mineral 0.1% Large patches of green amphibole(90%)-magnetite(10%) assemblage from 85,25 to 85,95 m, with magnetite contain up to 1 % TREE.</p>
100.30	101.15	<p>I3; GF</p>

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Description

114.00	116.85	I3; GF Mafic intrusive 60°; Fine-grained Black, fine grained to aphanitic, not magnetic, composed by felspar and mafic minerals (biotite mostly). Same unit interval than from 40,60 to 46 m. Not deformed. Upper and lower contacts are sharp and respectively orientated at 55 and 70 tca.
116.85	164.25	I2D; GG Mafic intrusive 60°; Fine-grained Mafic intrusive: Black, fine-grained to aphanitic, non-magnetic; composed of feldspar and mafic minerals (mainly biotite). Same unit as the interval from 40.60 to 46.00 m. Not deformed. Geochemistry: Si 29%, Al 8.7%, K 5%, Ti 0.5%, Fe 3.4%, Ca 2%. Upper and lower contacts sharp at 60° TCA. Syenite; Coarse-grained Syenite: Pinkish syenite, coarse-grained, massive, homogeneous texture. Composed of pinkish K-feldspar mixed with 10–15% mm- to cm-scale amphibole patches, locally associated with 4–5% replacement magnetite producing moderate magnetism. Mostly undeformed. Very local hydrothermal breccia at 124.40–124.50 m and 141.15–141.25 m. Low scintillometer background (100–150 cps). Weak fenitization marked by amphibole replacement by magnetite. 130.30–143.50 m: Traces of disseminated Po, rarely forming veins oriented at 50° TCA. 130.30–135.50 m: Weak fracture-controlled carbonatization–chloritization with moderate patchy fenitization. 135.50–138.65 m: Strong pervasive ferrous carbonatization (Ca 14%, Si 8%, Fe 5.7%, Mg 0.5%, Al 0.8%). Pervasive weak fenitization continues to the upper contact of the carbonatite. Lower contact sharp at 50° TCA with carbonatite.
116.85	130.30	FN02 Fenitization 2 Weak fenitization marked by amphibole replacement by magnetite.
116.85	127.15	MG04.5 Magnetite 4.5% 4-5 % of magnetite by replacement
130.30	135.50	CB02; CL02; FN03 Carbonated 2; Chloritization 2; Fenitization 3 Weak fractures-controlled carbonatation-chloritization, plus moderate patchy fenitization
135.50	138.65	CB04 Carbonated 4 The unit is strongly pervasivly altered by ferrous carbonatation (Ca : 14 %, Si : 8 %, Fe : 5,7 %, Mg : 0,5 % and Al : 0,8 %).
138.65	164.25	FN02 Fenitization 2 Pervasiv weak fenitization until upper contact of the carbonatite
156.20	156.90	I2D; GF Syenite 55°; Fine-grained Dark grey, fine grained, moderatly magnetic, not deformed. Traces of carbonates veinlets (white and redish) at 40-50 tca. Upper and lower contacts are sharp and respectively orientated at 45 and 65 tca.
164.25	171.15	I4Q Carbonatite 45°

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Description

			Carbonatite: White to silver-grey carbonatite, fine-grained; foliated at 40–50° TCA, marked by magnetite banding and mineral alignment. Composed of ~50% white carbonate matrix, 30–40% finely disseminated to semi-massive/massive magnetite, and ~3% reddish disseminated carbonates. Strong reaction to HCl. Scintillometer signal low (100–130 cps), consistent with low U–Th–K content. REE are concentrated mainly in the carbonate minerals. XRF returned Sr: 1.6–1.8%;P: 0.5–1.2%;Nd: 0.13%;Ce: 0.3%;La: 0.16–0.23%. Magnetite concentration increases toward the lower part of the unit (167.20–171.15 m), where it becomes massive at the lower boundary. Lower contact sharp at 40° TCA.
164.25	171.15	FO03	
		Foliated 3 45°	
		Moderately foliated at 45 tca	
164.25	171.15	MG35; REE Mineral01	
		Magnetite 35%; REE Mineral 1%	
		30-40 % finely disseminated semi massiv to massiv magnetite. This unit concentrated REE content mostly carbonate associated. The carbonate contains 1,6-1,8 % Sr, 0,5-1,2 % P, 0,13 % Nd, 0,3 % Ce and 0,16-0,23 %	
171.15	189.00	I2D; GG	
		Syenite; Coarse-grained	
		Syenite: Pinkish syenite, coarse-grained, massive, homogeneous. Weak foliation at 35–45° TCA. Composed of pinkish K-feldspar mixed with 10–15% mm- to cm-scale amphibole patches, locally associated with 1–2% magnetite. Pervasive weak fenitization up to 182.50 m. Lower contact sharp at 50° TCA with fine- to medium-grained syenite.	
171.15	182.50	FN02	
		Fenitization 2	
		Pervasive weak fenitization until 182,50 m.	
171.15	189.00	MG01.5	
		Magnetite 1.5%	
		1-2 % of magnetite	
189.00	210.45	I2D; GF-GM	
		Syenite; Fine- to medium-grained	
		Syenite: Pinkish to greyish syenite, fine- to medium-grained, massive, homogeneous. Composed of pinkish K-feldspar mixed with 10–15% mm amphibole spots, associated with 1–3% magnetite giving weak magnetism. Lower contact sharp at 45° TCA.	
189.00	196.00	MG01.5	
		Magnetite 1.5%	
		moderate magnetism causing by 1-2 % of disseminated magnetite	
196.00	210.45	MG02	
		Magnetite 2%	
		1-3 % of magnetite	
210.45	216.40	I2D; GF-GM	
		Syenite; Fine- to medium-grained	
		Syenite: Dark grey syenite, fine- to medium-grained, massive, homogeneous. Composed of dark grey feldspar, amphibole, and minor quartz. Very hard. Moderate pervasive magnetism. Traces of hairline to mm-scale carbonate fractures oriented at 40–50° TCA, with altered host rock	

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Description

216.40	217.55	<p>around fracture margins. Lower contact sharp at 45° TCA with pinkish coarse-grained syenite.</p> <p>I2D; GG</p> <p>Syenite; Coarse-grained</p> <p>Syenite: Pinkish syenite, coarse-grained, massive, homogeneous, with mafic bands from 216.55 to 216.85 m. Weak foliation at 50° TCA. Composed of pinkish K-feldspar mixed with 15–20% mm- to cm-scale amphibole patches, locally associated with 1–2% magnetite. Weak pervasive K-feldspar alteration and amphibole–magnetite patches possibly related to fenitization. Lower contact sharp and crosscut at 30° TCA by fine-grained equigranular syenite.</p>
216.40	217.55	<p>FK02</p> <p>Potassic feldspar 2</p> <p>The presence of weak pervasive K-feldspar alteration</p>
216.40	217.55	<p>FO02</p> <p>Foliated2 50°</p> <p>Weakly foliated at 50 tca</p>
217.55	220.25	<p>I2D</p> <p>Syenite 30°</p> <p>Syenite: Light pinkish syenite, fine-grained, vitreous; texture shifts sharply to porphyroblastic with mm-scale feldspar “swimming” in an aphanitic matrix. Very hard. Non-magnetic. Contains ~1% hairline multicoloured carbonate fractures in all orientations with oxidized margins. Weak fracture-controlled carbonatization. Moderate pervasive potassic alteration. Lower contact sharp at 35° TCA.</p>
217.55	220.25	<p>FK03; CB02</p> <p>Potassic feldspar 3; Carbonated 2</p> <p>Weak fractures-controlled carbonatation. Moderate pervasiv potasic alteration.</p>
220.25	225.00	<p>I2D; GM</p> <p>Syenite; Medium-grained</p> <p>Syenite: Orangish to greyish syenite, mostly fine- to medium-grained with local coarse-grained intervals. Moderately foliated to banded at 50–55° TCA. Composed of orangish K-feldspar mixed with 20% mm- to cm-scale amphibole–magnetite (5%) bands. Traces of carbonate veinlets with percolation halos. Moderate pervasive fenitization. EOH at 225 m.</p>
220.25	225.00	<p>FN03; FK03</p> <p>Fenitization 3; Potassic feldspar 3</p> <p>Moderate pervasiv fenitization alteration ?</p>
220.25	225.00	<p>FO03</p> <p>Foliated3 50°</p> <p>Moderatly foliated at 50-55 tca.</p>
220.25	225.00	<p>MG05</p> <p>Magnetite 5%</p> <p>5 % of disseminated magnetite mostly concentrated in mafic patches or bands.</p>

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Assay - Sample						
From	To	Sample number	TREO (sum lanthanide) (%)	CeO2_Calc (%)	La2O3_Calc (%)	Nd2O3_Calc (%)
7.20	8.00	L787347	err	err	err	err
8.00	9.00	L787348	err	err	err	err
9.00	10.50	L787349	err	err	err	err
10.50	12.00	L787350	err	err	err	err
24.00	25.50	L787352	err	err	err	err
25.50	27.00	L787353	err	err	err	err
27.00	28.50	L787354	err	err	err	err
39.00	40.00	L787355	err	err	err	err
40.00	40.60	L787356	err	err	err	err
40.60	42.00	L787357	err	err	err	err
42.00	43.50	L787358	err	err	err	err
43.50	45.00	L787359	err	err	err	err
45.00	46.00	L787360	err	err	err	err
46.00	47.00	L787361	err	err	err	err
52.65	54.00	L787362	err	err	err	err
54.00	55.50	L787364	err	err	err	err
55.50	56.30	L787365	err	err	err	err
56.30	57.00	L787366	err	err	err	err
57.00	58.50	L787367	err	err	err	err
58.50	60.00	L787368	err	err	err	err
60.00	61.50	L787369	err	err	err	err
61.50	63.00	L787370	err	err	err	err
63.00	63.80	L787371	err	err	err	err
63.80	65.00	L787372	err	err	err	err
65.00	66.00	L787374	err	err	err	err
66.00	67.50	L787375	err	err	err	err
67.50	69.00	L787376	err	err	err	err
69.00	70.00	L787377	err	err	err	err
70.00	71.20	L787378	err	err	err	err
71.20	72.00	L787379	err	err	err	err
72.00	73.50	L787380	err	err	err	err
82.50	84.00	L787382	0.07	0.033	0.017	0.012
84.00	85.25	L787383	0.08	0.036	0.019	0.013
85.25	85.95	L787384	0.69	0.328	0.174	0.118
85.95	87.00	L787385	0.07	0.034	0.018	0.012
87.00	88.50	L787386	0.07	0.030	0.017	0.011

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Assay - Sample						
From	To	Sample number	TREO (sum lanthanide) (%)	CeO2_Calc (%)	La2O3_Calc (%)	Nd2O3_Calc (%)
102.00	103.50	L787387	err	err	err	err
103.50	105.00	L787388	err	err	err	err
105.00	106.50	L787389	err	err	err	err
120.00	121.50	L787391	err	err	err	err
121.50	123.00	L787392	err	err	err	err
123.00	124.50	L787393	err	err	err	err
132.00	133.50	L787394	err	err	err	err
133.50	135.00	L787395	err	err	err	err
135.00	135.50	L787396	err	err	err	err
135.50	136.00	L787397	err	err	err	err
136.00	137.20	L787398	0.11	0.049	0.025	0.019
137.20	138.00	L787399	0.13	0.056	0.029	0.023
138.00	138.65	L787401	0.20	0.090	0.045	0.036
138.65	139.50	L787402	0.25	0.113	0.057	0.043
139.50	141.00	L787403	0.13	0.059	0.030	0.023
141.00	142.50	L787404	0.07	0.033	0.017	0.012
142.50	143.60	L787405	0.20	0.092	0.048	0.034
143.60	145.00	L787406	0.10	0.047	0.023	0.018
159.00	160.50	L787407	0.08	0.037	0.020	0.014
160.50	162.00	L787408	0.07	0.034	0.018	0.013
162.00	163.50	L787409	0.08	0.035	0.019	0.014
163.50	164.25	L787410	0.37	0.173	0.095	0.060
164.25	165.00	L787412	0.43	0.199	0.093	0.081
165.00	165.50	L787413	0.45	0.210	0.093	0.089
165.50	166.50	L787415	0.40	0.184	0.089	0.074
166.50	167.50	L787416	0.61	0.279	0.142	0.112
167.50	168.50	L787417	0.24	0.116	0.074	0.030
168.50	169.00	L787418	0.23	0.115	0.072	0.027
169.00	170.00	L787419	0.22	0.105	0.057	0.033
170.00	170.65	L787420	0.06	0.029	0.017	0.009
170.65	171.15	L787421	0.29	0.141	0.069	0.051
171.15	172.00	L787423	0.07	0.032	0.016	0.012
172.00	173.00	L787424	0.08	0.039	0.019	0.014
173.00	174.00	L787425	0.39	0.184	0.090	0.069
174.00	175.50	L787426	0.12	0.057	0.028	0.022
175.50	177.00	L787427	0.18	0.083	0.040	0.032

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Assay - Sample

From	To	Sample number	TREO (sum lanthanide) (%)	CeO2_Calc (%)	La2O3_Calc (%)	Nd2O3_Calc (%)
177.00	178.50	L787428	0.38	0.181	0.089	0.067
189.00	190.50	L787429	err	err	err	err
190.50	192.00	L787430	err	err	err	err
192.00	193.50	L787431	err	err	err	err
207.00	208.50	L787432	err	err	err	err
208.50	210.00	L787433	err	err	err	err
210.00	211.50	L787434	err	err	err	err
222.00	223.50	L787435	err	err	err	err
223.50	225.00	L787436	err	err	err	err

Survey:	CH-25-05	Claims title:	763276	Section:	
Contractor:	Forages Chibougamau	Township:	Clay	Level:	Surface
Author:	Batyste Perrin, M.Sc.A.; Julien Huguet, P.Eng	Range:		Work place:	Clay Howells
		Lot:		Provincial Cell Grid:	42G16A013
		Start date:	2025-09-26	Description date:	2025-09-27
		End date:	2025-09-28		

Collar

Azimuth:	170.00°	UTM NAD83 Zone 17	
Dip:	-55.00°	East	424588.00
Length:	300.00 (m)	North	5520314.00
		Elevation	209.00 (m)

Down hole survey

Type	Depth	Azimuth	Dip	Type	Depth	Azimuth	Dip
Collar	0.00	170.00°	-55.00°	Gyro_multi	21.00	169.74°	-55.84°
Gyro_multi	3.00	169.71°	-55.54°	Gyro_multi	24.00	169.83°	-55.86°
Gyro_multi	6.00	169.79°	-55.53°	Gyro_multi	27.00	169.93°	-55.91°
Gyro_multi	9.00	169.61°	-55.64°	Gyro_multi	30.00	169.85°	-55.98°
Gyro_multi	12.00	169.67°	-55.68°	Gyro_multi	33.00	169.82°	-56.05°
Gyro_multi	15.00	169.67°	-55.76°	Gyro_multi	36.00	169.79°	-55.97°
Gyro_multi	18.00	169.58°	-55.77°	.....	.....	.....	.....

Nombre d'échantillons:	75	Nombre d'échantillons roche totale:	9
Nombre d'échantillons QAQC:	9		
Longueur totale échantillonnée:	95.50 (m)		

Description:

1 round, 18" shell, Pumpshak Kapuskasing river. 300 m to N.
 Core storage: Jonquière (Québec, Canada) at Laurentia Exploration office
 Artesian : No
 Casing: Left in place. Cap installed, screwed on tube.



Core size: BTW	Cemented: No
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Down hole survey					
Type	Depth	Azimuth	Invalid...	Dip	Invalid...
Gyro_multi	39.00	169.79°	No	-56.04°	No
Gyro_multi	42.00	169.85°	No	-56.10°	No
Gyro_multi	45.00	169.78°	No	-56.11°	No
Gyro_multi	48.00	169.78°	No	-56.14°	No
Gyro_multi	51.00	169.50°	No	-56.14°	No
Gyro_multi	54.00	169.58°	No	-56.17°	No
Gyro_multi	57.00	169.63°	No	-56.24°	No
Gyro_multi	60.00	169.67°	No	-56.28°	No
Gyro_multi	63.00	169.69°	No	-56.31°	No
Gyro_multi	66.00	169.69°	No	-56.36°	No
Gyro_multi	69.00	169.75°	No	-56.37°	No
Gyro_multi	72.00	169.68°	No	-56.44°	No
Gyro_multi	75.00	169.66°	No	-56.46°	No
Gyro_multi	78.00	169.73°	No	-56.49°	No
Gyro_multi	81.00	169.76°	No	-56.51°	No
Gyro_multi	84.00	169.69°	No	-56.60°	No
Gyro_multi	87.00	169.75°	No	-56.54°	No
Gyro_multi	90.00	169.61°	No	-56.53°	No
Gyro_multi	93.00	169.77°	No	-56.48°	No
Gyro_multi	96.00	169.82°	No	-56.55°	No
Gyro_multi	99.00	169.88°	No	-56.57°	No
Gyro_multi	102.00	169.72°	No	-56.61°	No
Gyro_multi	105.00	169.71°	No	-56.61°	No
Gyro_multi	108.00	169.63°	No	-56.50°	No
Gyro_multi	111.00	169.80°	No	-56.51°	No
Gyro_multi	114.00	169.85°	No	-56.61°	No
Gyro_multi	117.00	169.75°	No	-56.67°	No
Gyro_multi	120.00	169.74°	No	-56.59°	No
Gyro_multi	123.00	169.65°	No	-56.51°	No
Gyro_multi	126.00	169.93°	No	-56.59°	No
Gyro_multi	129.00	169.97°	No	-56.73°	No
Gyro_multi	132.00	169.81°	No	-56.67°	No
Gyro_multi	135.00	169.72°	No	-56.56°	No
Gyro_multi	138.00	169.92°	No	-56.60°	No
Gyro_multi	141.00	169.91°	No	-56.58°	No
Gyro_multi	144.00	169.89°	No	-56.66°	No
Gyro_multi	147.00	169.76°	No	-56.59°	No

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Down hole survey					
Type	Depth	Azimuth	Invalid...	Dip	Invalid...
Gyro_multi	150.00	169.78°	No	-56.61°	No
Gyro_multi	153.00	169.88°	No	-56.50°	No
Gyro_multi	156.00	170.01°	No	-56.65°	No
Gyro_multi	159.00	170.05°	No	-56.72°	No
Gyro_multi	162.00	170.00°	No	-56.70°	No
Gyro_multi	165.00	169.90°	No	-56.63°	No
Gyro_multi	168.00	170.06°	No	-56.61°	No
Gyro_multi	171.00	170.11°	No	-56.69°	No
Gyro_multi	174.00	170.17°	No	-56.74°	No
Gyro_multi	177.00	170.05°	No	-56.71°	No
Gyro_multi	180.00	170.01°	No	-56.66°	No
Gyro_multi	183.00	170.16°	No	-56.52°	No
Gyro_multi	186.00	170.42°	No	-56.51°	No
Gyro_multi	189.00	170.31°	No	-56.48°	No
Gyro_multi	192.00	170.09°	No	-56.48°	No
Gyro_multi	195.00	170.28°	No	-56.62°	No
Gyro_multi	198.00	170.19°	No	-56.51°	No
Gyro_multi	201.00	170.04°	No	-56.38°	No
Gyro_multi	204.00	170.20°	No	-56.48°	No
Gyro_multi	207.00	170.30°	No	-56.56°	No
Gyro_multi	210.00	170.21°	No	-56.57°	No
Gyro_multi	213.00	170.11°	No	-56.54°	No
Gyro_multi	216.00	170.17°	No	-56.48°	No
Gyro_multi	219.00	170.29°	No	-56.60°	No
Gyro_multi	222.00	170.39°	No	-56.65°	No
Gyro_multi	225.00	170.21°	No	-56.71°	No
Gyro_multi	228.00	170.03°	No	-56.63°	No
Gyro_multi	231.00	170.27°	No	-56.64°	No
Gyro_multi	234.00	170.21°	No	-56.53°	No
Gyro_multi	237.00	170.05°	No	-56.17°	No
Gyro_multi	240.00	170.27°	No	-56.10°	No
Gyro_multi	243.00	170.22°	No	-56.00°	No
Gyro_multi	246.00	170.00°	No	-55.64°	No
Gyro_multi	249.00	170.24°	No	-55.55°	No
Gyro_multi	252.00	170.17°	No	-55.44°	No
Gyro_multi	255.00	169.97°	No	-55.22°	No
Gyro_multi	258.00	170.19°	No	-55.31°	No

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Down hole survey

Type	Depth	Azimuth	Invalid...	Dip	Invalid...
Gyro_multi	261.00	170.12°	No	-55.52°	No
Gyro_multi	264.00	169.99°	No	-55.53°	No
Gyro_multi	267.00	170.17°	No	-55.63°	No
Gyro_multi	270.00	170.21°	No	-55.55°	No
Gyro_multi	273.00	170.00°	No	-55.44°	No
Gyro_multi	276.00	169.96°	No	-55.51°	No
Gyro_multi	279.00	170.17°	No	-55.63°	No
Gyro_multi	282.00	170.22°	No	-55.54°	No
Gyro_multi	285.00	169.94°	No	-55.42°	No
Gyro_multi	288.00	169.88°	No	-55.52°	No
Gyro_multi	291.00	170.01°	No	-55.60°	No
Gyro_multi	294.00	170.07°	No	-55.56°	No
Gyro_multi	297.00	169.87°	No	-55.44°	No
Gyro_multi	300.00	169.95°	No	-55.52°	No
Gyro_multi	303.00	170.22°	No	-55.62°	No
Gyro_multi	306.00	170.01°	No	-55.53°	No
Gyro_multi	309.00	169.95°	No	-55.34°	No
Gyro_multi	312.00	170.22°	No	-55.31°	No
Gyro_multi	315.00	170.00°	No	-55.05°	No
Gyro_multi	318.00	169.96°	No	-54.93°	No
Gyro_multi	321.00	170.23°	No	-55.19°	No
Gyro_multi	324.00	169.98°	No	-55.27°	No
Gyro_multi	327.00	170.01°	No	-55.33°	No
Gyro_multi	330.00	170.27°	No	-55.15°	No
Gyro_multi	331.00	170.32°	No	-55.10°	No

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Description		
0.00	6.90	MT Overburden Casing
6.90	12.60	I2D; GF Syenite 55°; Fine-grained Syenite: grey, fine-grained, moderately foliated at 55-60 tca. Moderately homogeneously magnetic. Chemical composition with pXRF gives: Si 25%, Fe 5.8%, K 5% and Mg 0.5%. From 10.70 to 10.75 m, three shreds of fluorine-carbonate veinlet present, foliation-controlled and containing significant TREE composition (0.8% Ce, 0.6% La, 0.26% Nd). Weak potassic alteration. Lower contact is sharp and orientated at 60 tca with pink syenite.
6.90	12.60	FK02 Potassic feldspar 2 Weak potassic alteration.
6.90	12.60	FO03 Foliated3 55° Moderately foliated at 55-60 tca
10.70	10.75	Fir05; REE Mineral01 Fluorite 5%; REE Mineral 1% Three shreds of fluorine-carbonate veinlet present, foliation-controlled and containing significant TREE composition (0.8 % Ce, 0.6 % La, 0.26 % Nd)
12.60	49.05	I2D; GG Syenite; Coarse-grained Syenite: Pinkish to grey syenite, coarse-grained, massive, homogeneous texture, composed of K-feldspar background and 5-10% of mm to cm amphibole patches, weakly to moderately magnetic caused by 1-2% of replacement magnetite. From 41.20 m to lower contact, the unit is progressively overprinted by weak to strong dark greenish fenitization alteration. Not deformed. Traces of fine carbonate veinlets at 20-30 tca. Lower contact is progressive with highly altered syenite (fenite? unit).
12.60	48.00	MG01.5 Magnetite 1.5% 1-2 % of replacement magnetite
41.20	49.05	FN04 Fenitization 4 Progressiv strong pervasiv fenitization alteration
49.05	63.50	FN; GM Fenite; Medium-grained Fenite: Dark grey fenite, medium-grained, vitreous, syenite primary texture is overprinted by dark green alteration, moderately magnetic. Chemical composition: Si 28%, Al 8%, Fe 3.5%, K 4.4% and Ti 0.3%. Locally presence of potassic alteration patches. Intense pervasive fenitization. Not deformed. Not mineralized. Lower contact is progressive with pale beige to greyish syenite injected by mafic dykes and enclaves unit.
49.05	63.50	FN05; FK01

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Description

			<p>Fenitization 5; Potassic feldspar 1 Intense pervasiv fenitization. Weak local patchy potassic alteration.</p>
63.50	81.70	I2D; GM-GG	
			<p>Syenite; Medium- to coarse-grained Syenite: Pale beige to grey in wet core syenite with some mafic dykes and enclaves intervals, medium to coarse-grained, moderately magnetic. This unit is injected by fine-grained mafic, pluri-decimetric intervals from 64.20 to 65.40, 66.80 to 67.10, and some enclaves from 67.75 to 67.90 and from 70.50 to 72 m. This unit is also characterized by low core angle (10 tca) carbonates (white, reddish and greenish) veinlets (some with drusy texture) from 65.55 to 69.70 m. Some traces of pyrite clusters and mm bands in the contacts. Traces of fine carbonate veinlets at 20-30 tca. Weak pervasive fenitization. Lower contact is sharp with mafic intrusive at 70 tca.</p>
63.50	65.55	FN03	
			<p>Fenitization 3 Moderate pervasive fenitization.</p>
64.20	65.40	I3; GF	
			<p>Mafic intrusive 70°; Fine-grained Grey, mafic intrusiv, fine grained, massiv, moderatly magnetic, not deformed. Not mineralized and not altered. Contacts are sharp at 70 tca.</p>
65.55	69.70	CB02	
			<p>Carbonated 2 Weak fractures-controlled carbonate alteration.</p>
69.70	81.70	FN02	
			<p>Fenitization 2 Weak pervasive fenitization</p>
81.70	83.20	I3; GF	
			<p>Mafic intrusive 70°; Fine-grained Mafic intrusive: Grey mafic intrusive, fine-grained, moderately foliated at 50-60 tca, moderate to strong magnetic. Not mineralized. Lower contact is sharp at 70 tca.</p>
81.70	93.70	FN02	
			<p>Fenitization 2 This interval is also marked by greyish pervasive to banded alteration.</p>
81.70	83.20	FO03	
			<p>Foliated3 55° moderatly foliated at 50-60 tca</p>
83.20	88.90	I2D; GG	
			<p>Syenite; Coarse-grained Syenite: Greyish to orangish in wet core syenite with 20% of mafic dykes and enclaves intervals, medium to coarse-grained, moderately magnetic. This unit is injected by fine-grained mafic pluri-decimetric intervals from 84.00 to 84.60, 86.00 to 86.35, 87.40 to 87.75 m and some enclaves from 67.75 to 67.90 and from 70.50 to 72 m. This interval is also marked by greyish pervasive to banded alteration. Some traces of pyrite clusters and mm bands in the contacts. Traces of fine carbonate veinlets at 20-30 tca. Lower contact is transitional with non-altered</p>

Laurentia Exploration Inc.

Description

88.90	116.90	<p>pinkish syenite. I2D; GG</p> <p>Syenite; Coarse-grained Syenite: Beigish to light pink, syenite, coarse-grained, massive, homogeneous texture, composed of K-feldspar background and 5-10% of mm to cm amphibole patches, weakly magnetic caused by 1-2% of replacement magnetite. Traces of low core angle carbonate veinlets. Not mineralized and not deformed. From 101.50 m, the unit begins to be progressively altered by weak to moderate pervasive fenitization. This alteration is correlated with the apparition of mafic injections like from 83.20 to 88.90 m. Lower contact is sharp and orientated at 55 tca.</p>
88.90	108.75	<p>MG01.5 Magnetite 1.5% w1-2 % of replacement magnetite.</p>
101.50	116.90	<p>FN03 Fenitization 3 From 101,50 m, the unit beginning to be progressively altered by weak to moderate pervasive fenitization.</p>
116.90	119.30	<p>I3; GF Mafic intrusive 60°; Fine-grained Mafic intrusive: Grey, mafic intrusive, fine-grained, massive, moderately magnetic, foliated at 55-60 tca. Not mineralized and not altered. Contacts are sharp at 55 to 60 tca.</p>
116.90	119.30	<p>FO03 Foliated3 55° foliated at 55-60 tca</p>
119.30	131.05	<p>I2D; I3; GF-GM Syenite; Mafic intrusive; Fine- to medium-grained Syenite: More greyish than orangish in wet core, syenite, with 10-15% of mafic dyke bands and enclaves intervals, coarse-grained, moderately magnetic. This unit looks like a mixture between syenite background and mafic intrusive bands or patches that can be injections of mafic unit intervals like previous intervals. This interval is also marked by greyish pervasive to banded alteration and weak banded potassic alteration. Traces of fine carbonate (white to reddish) veinlets at 20-30 tca with percolation halo in the host rock. Weakly heterogeneous foliation present and orientated at 55-60 tca. Lower contact is transitional with fine-grained pinkish-greyish syenite.</p>
119.30	134.50	<p>FN02; FK02 Fenitization 2; Potassic feldspar 2 This interval is also markeds by greyish pervasive to banded alteration and weak banded potassic alteration</p>
119.30	131.05	<p>FO02 Foliated2 55° Weakly heterogeneous foliation present and orientated at 55-60 tca.</p>
131.05	147.10	<p>I2D; GF Syenite 60°; Fine-grained Syenite: Mixed greyish and pinkish syenite, fine-grained, weakly magnetic. This unit looks like a transitional part between fine-grained and coarse-grained syenite. Composition is 30-40% orangish to pinkish K-feldspar and 40-50% black to dark greenish mafic mm minerals (appears altered). This interval is also marked by greyish pervasive to banded alteration and weak banded potassic alteration. Traces of</p>

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Description

			quartz-feldspar (orangish) veinlets at 30-40 tca, sometimes cross-cut by hairy reddish carbonate fractures at 60 tca. The part from 131 m to lower border looks foliated by magmatic or metamorphic foliation at 60 tca. No presence of REE content. Lower contact is transitional with coarse-grained reddish syenite.
131.05	147.10	FO03	Foliated3 60° Moderate metamorphic to magmatic foliation orientated at 60 tca.
147.10	187.40	I2D; GG	Syenite; Coarse-grained Syenite: Reddish syenite, coarse-grained, massive, homogeneous texture, composed of reddish and bluish-grey K-feldspar background and 5-10% of mm to cm chlorite patches, not magnetic. Geochemical composition: Si 25%, Al 7.8%, K 4.2% and Fe 1.9%. Primary amphiboles have been altered into chlorite. A moderate to strong pervasive potassic alteration affects this unit, causing the reddish color. Traces of low core angle ferrous carbonate veinlets (Ca 16%, Fe 6.6%, no REE). Not mineralized and not deformed. From 147.10 to 152.20 m, the unit is more greyish, with orangish parts, indicating the apparition of potassic alteration, with moderate magnetism associated with pyroxene and magnetite. Beginning of a weak pervasive fenitization. The fenitization, potassic alteration, and chloritization decrease progressively in intensity from 181.80 to 187.40 m, coinciding with the color changing from reddish-orange to pale gray and combined with increasing magnetism. The unit is fractured by ferrous carbonate veinlets often at low core angle (10-20 tca) until 180 m. Lower contact is transitional.
147.10	152.20	FN02; FK02; CB01	Fenitization 2; Potassic feldspar 2; Carbonated 1 Begining of the weak pervasiv fenitization. Apparition of potassic alteration, with moderate magnetism. Very weak carbonatation fractures-controlled.
152.20	181.80	CL03; FK04; FN03	Chloritization 3; Potassic feldspar 4; Fenitization 3 Primary amphiboles have been altered into chlorite. A moderate to strong pervasive potassic alteration affect this unit causing the redish color. Combination of these alteration can be explain by moderate fenitization.
181.80	187.40	FN03; FK02; CL02	Fenitization 3; Potassic feldspar 2; Chloritization 2 The fenitization, potassic alteration and chloritization decrease progressively in intensity from 181,80 to 187,40 m.
187.40	213.00	I2D; GG	Syenite; Coarse-grained Syenite: Dark grey syenite, coarse-grained, massive and vitreous, homogeneous texture, composed of grey to beige translucent feldspar, interstitial mafic pyroxene to pale greenish amphibole. Geochemical composition varying: Si 11-19%, Al 2.7-5.4%, K 3.4-4.7%, Fe 3.1-4.7%, and Ti 0.5%. Not mineralized. No presence of REE content. Moderate magnetism associated with pyroxene and magnetite. This unit is not affected by pervasive fenitization and potassic alteration. Mostly not deformed. From 202 to 205.20 m, the unit begins to be weakly foliated at 40 tca. Magmatic breccia from 205.20 to 213 m with pluri-cm foliated very fine-grained syenite clasts (5%) and K-feldspar porphyroclasts. This structure presents moderate magmatic foliation at 40-45 tca. Lower contact is transitional with greyish-beige to locally pinkish coarse-grained syenite.
202.00	205.20	FO02	Foliated2 40°

Laurentia Exploration Inc.

		Description
205.20	213.00	<p>From 202 to 205,20 m, the unit begin to be weakly foliated at 40 tca BR04 Brecciated4 40° Magmatic breccia present a magmatic foliation at 40-45 tca.</p>
213.00	284.50	<p>I2D; GG Syenite; Coarse-grained Syenite: Dark grey to beige syenite, coarse-grained, alternation or mixture between greyish syenite with vitreous texture intervals and beige to grey massive coarse-grained syenite, composed of grey to beige translucent feldspar, interstitial mafic pyroxene to pale greenish amphibole. Magnetism varying from weak to moderate. Not mineralized. No presence of REE content. Pervasive potassic and patchy amphibole alteration strongly affects interval from 233.75 to 234.20 m. From 251 to 258 m, some pluri-cm grey syenite clasts are present in the beige syenite unit. Traces of cm to mm carbonatite injections orientated at 40-50 tca and containing up to 3% of biotite patches, from 277.60 to 278.25 m. Lower contact is gradual.</p>
220.90	221.60	<p>I3; GF Mafic intrusive 55°; Fine-grained Black, fine grained, not magnetic, composed by fine feldspar matrix and mafic minerals (biotite mostly). Composition : Si : 21 %, Fe : 9.7 %, Al: 7.6 %, K : 2.3 %, Ca : 4.8 % and Ti : 1.8 %. Not deformed. Not mineralized. Upper and lower contacts are sharp and respectively orientated at 50 and 60 tca.</p>
233.75	234.20	<p>AM04; FK04 Amphibolitization 4; Potassic feldspar 4 Pervasive potassic and patchy amphibole alteration are strongly affected interval from 233,75 to 234,20 m</p>
233.75	234.20	<p>FO03 Foliated3 45° Moderate locally foliated associated with alteration zone, with an core angle at 45 tca.</p>
284.50	300.00	<p>I2D; BR Syenite; Brecciated Syenite: Pinkish to grey syenite, alternation of pinkish coarse-grained syenite and grey fine-grained syenite, brecciated intervals. The syenite contains some traces of quartz. Heterogeneously foliated at 60 tca and weakly fractured at 30 tca. Magnetism is moderate. Not mineralized. No presence of REE content. The color indicates weak to moderate pervasive potassic alteration. EOH at 300 m.</p>
284.50	300.00	<p>FK03 Potassic feldspar 3 The color can indicates weak to moderate pervasive potassic alteration</p>
284.50	300.00	<p>FO03 Foliated3 60° Heterogeneously foliated at 60 tca</p>

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Assay - Sample						
From	To	Sample number	TREO (sum lanthanide) (%)	CeO2_Calc (%)	La2O3_Calc (%)	Nd2O3_Calc (%)
9.00	10.00	L787439	err	err	err	err
10.00	10.50	L787440	err	err	err	err
10.50	11.00	L787441	err	err	err	err
11.00	12.00	L787442	err	err	err	err
12.00	12.60	L787443	err	err	err	err
12.60	13.50	L787444	err	err	err	err
13.50	15.00	L787445	err	err	err	err
30.00	31.50	L787446	0.06	0.027	0.016	0.008
31.50	33.00	L787447	0.06	0.027	0.016	0.008
33.00	34.50	L787448	0.06	0.029	0.017	0.009
48.00	49.00	L787450	err	err	err	err
49.00	50.00	L787451	err	err	err	err
50.00	51.00	L787452	err	err	err	err
51.00	52.50	L787453	err	err	err	err
52.50	54.00	L787454	err	err	err	err
54.00	55.50	L787455	err	err	err	err
55.50	57.00	L787456	err	err	err	err
63.00	63.50	L787457	err	err	err	err
63.50	64.20	L787458	err	err	err	err
64.20	65.40	L787459	err	err	err	err
65.40	66.00	L787460	err	err	err	err
66.00	67.00	L787462	err	err	err	err
67.00	68.00	L787463	err	err	err	err
68.00	69.00	L787464	err	err	err	err
69.00	70.50	L787465	err	err	err	err
70.50	72.00	L787466	err	err	err	err
72.00	73.50	L787467	err	err	err	err
89.00	90.50	L787468	err	err	err	err
90.50	92.00	L787469	err	err	err	err
92.00	93.00	L787470	err	err	err	err
105.00	106.50	L787472	0.08	0.038	0.020	0.014
106.50	108.00	L787473	0.07	0.033	0.017	0.012
108.00	109.50	L787474	0.06	0.026	0.014	0.010
123.00	124.50	L787475	err	err	err	err
124.50	126.00	L787476	err	err	err	err
126.00	127.50	L787477	err	err	err	err

Laurentia Exploration Inc.

Assay - Sample						
From	To	Sample number	TREO (sum lanthanide) (%)	CeO2_Calc (%)	La2O3_Calc (%)	Nd2O3_Calc (%)
144.00	145.50	L787478	err	err	err	err
145.50	146.60	L787479	err	err	err	err
146.60	147.10	L787480	err	err	err	err
147.10	148.50	L787481	err	err	err	err
148.50	150.00	L787483	err	err	err	err
150.00	151.00	L787484	err	err	err	err
151.00	152.20	L787485	err	err	err	err
152.20	153.00	L787486	err	err	err	err
153.00	154.50	L787487	0.06	0.029	0.016	0.010
154.50	156.00	L787488	0.06	0.028	0.016	0.009
156.00	157.50	L787489	0.07	0.030	0.017	0.010
157.50	159.00	L787491	0.08	0.037	0.021	0.012
174.00	175.50	L787492	err	err	err	err
175.50	177.00	L787493	err	err	err	err
177.00	178.50	L787494	err	err	err	err
190.50	192.00	L787495	err	err	err	err
192.00	193.50	L787496	err	err	err	err
193.50	195.00	L787497	err	err	err	err
204.00	205.20	L787498	err	err	err	err
205.20	206.00	L787499	err	err	err	err
206.00	207.00	L787501	err	err	err	err
207.00	208.50	L787502	err	err	err	err
208.50	210.00	L787503	err	err	err	err
213.00	214.50	L787504	err	err	err	err
214.50	216.00	L787505	err	err	err	err
216.00	217.50	L787506	err	err	err	err
240.00	241.50	L787507	err	err	err	err
241.50	243.00	L787508	err	err	err	err
243.00	244.50	L787509	err	err	err	err
259.50	261.00	L787511	err	err	err	err
261.00	262.50	L787512	err	err	err	err
262.50	264.00	L787513	err	err	err	err
276.00	277.50	L787514	0.06	0.025	0.013	0.010
277.50	278.25	L787515	0.14	0.063	0.027	0.031
278.25	279.00	L787516	0.06	0.027	0.013	0.010
279.00	280.50	L787517	0.08	0.036	0.018	0.013

Laurentia Exploration Inc.

Assay - Sample

From	To	Sample number	TREO (sum lanthanide) (%)	CeO2_Calc (%)	La2O3_Calc (%)	Nd2O3_Calc (%)
295.50	297.00	L787518	0.04	0.017	0.009	0.006
297.00	298.50	L787519	0.04	0.019	0.009	0.008
298.50	300.00	L787520	0.06	0.028	0.015	0.010

Survey: CH-25-06	Claims title: 763279	Section:					
Contractor: Forages Chibougamau	Township: Clay	Level: Surface					
Author: Batyste Perrin, M.Sc.A.; Julien Huguet, P.Eng;	Range:	Work place: Clay Howells					
	Lot:	Provincial Cell Grid: 42G16A055					
	Start date: 2025-09-28	Description date: 2025-09-29					
	End date: 2025-10-01						
Collar							
UTM NAD83 Zone 17							
Azimuth: 180.00°	East 425663.00						
Dip: -45.00°	North 5519333.00						
Length: 351.00 (m)	Elevation 218.20 (m)						
Down hole survey							
Type	Depth	Azimuth	Dip	Type	Depth	Azimuth	Dip
Collar	0.00	180.00°	-45.00°	Gyro_multi	21.00	180.31°	-45.81°
Gyro_multi	3.00	180.35°	-45.88°	Gyro_multi	24.00	180.11°	-45.92°
Gyro_multi	6.00	180.24°	-45.94°	Gyro_multi	27.00	180.06°	-45.83°
Gyro_multi	9.00	180.19°	-45.90°	Gyro_multi	30.00	180.07°	-45.79°
Gyro_multi	12.00	180.19°	-45.88°	Gyro_multi	33.00	180.01°	-45.69°
Gyro_multi	15.00	180.23°	-45.81°	Gyro_multi	36.00	180.09°	-45.65°
Gyro_multi	18.00	180.26°	-45.78°	.....	.....	.....	.....
Nombre d'échantillons: 123		Nombre d'échantillons roche totale: 10					
Nombre d'échantillons QAQC: 13							
Longueur totale échantillonnée: 155.00 (m)							
Description:							
1 round, 18" shell, Pumpshak Kapuskasing river (1 km water line) to NE							
Core storage: Jonquière (Québec, Canada) at Laurentia Exploration office							
Artesian : No							
Casing: Left in place. Cap installed, screwed on tube.							
Core size: BTW				Cemented: No			



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Down hole survey					
Type	Depth	Azimuth	Invalid...	Dip	Invalid...
Gyro_multi	39.00	180.08°	No	-45.77°	No
Gyro_multi	42.00	179.86°	No	-45.76°	No
Gyro_multi	45.00	179.99°	No	-45.65°	No
Gyro_multi	48.00	180.09°	No	-45.70°	No
Gyro_multi	51.00	180.03°	No	-45.72°	No
Gyro_multi	54.00	179.85°	No	-45.86°	No
Gyro_multi	57.00	179.71°	No	-45.89°	No
Gyro_multi	60.00	179.68°	No	-45.83°	No
Gyro_multi	63.00	179.80°	No	-45.82°	No
Gyro_multi	66.00	179.70°	No	-45.93°	No
Gyro_multi	69.00	179.67°	No	-45.94°	No
Gyro_multi	72.00	179.80°	No	-45.85°	No
Gyro_multi	75.00	180.01°	No	-45.78°	No
Gyro_multi	78.00	180.25°	No	-45.82°	No
Gyro_multi	81.00	180.06°	No	-45.93°	No
Gyro_multi	84.00	180.03°	No	-45.90°	No
Gyro_multi	87.00	180.12°	No	-45.85°	No
Gyro_multi	90.00	180.18°	No	-45.87°	No
Gyro_multi	93.00	180.10°	No	-45.91°	No
Gyro_multi	96.00	180.07°	No	-45.91°	No
Gyro_multi	99.00	179.94°	No	-45.88°	No
Gyro_multi	102.00	179.97°	No	-45.78°	No
Gyro_multi	105.00	179.95°	No	-45.75°	No
Gyro_multi	108.00	180.01°	No	-45.73°	No
Gyro_multi	111.00	180.01°	No	-45.76°	No
Gyro_multi	114.00	179.90°	No	-45.72°	No
Gyro_multi	117.00	179.91°	No	-45.68°	No
Gyro_multi	120.00	179.98°	No	-45.67°	No
Gyro_multi	123.00	180.16°	No	-45.60°	No
Gyro_multi	126.00	180.12°	No	-45.61°	No
Gyro_multi	129.00	180.27°	No	-45.57°	No
Gyro_multi	132.00	180.38°	No	-45.49°	No
Gyro_multi	135.00	180.26°	No	-45.57°	No
Gyro_multi	138.00	180.39°	No	-45.59°	No
Gyro_multi	141.00	180.39°	No	-45.61°	No
Gyro_multi	144.00	180.35°	No	-45.65°	No
Gyro_multi	147.00	180.30°	No	-45.68°	No

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Down hole survey					
Type	Depth	Azimuth	Invalid...	Dip	Invalid...
Gyro_multi	150.00	180.31°	No	-45.68°	No
Gyro_multi	153.00	180.46°	No	-45.67°	No
Gyro_multi	156.00	180.49°	No	-45.61°	No
Gyro_multi	159.00	180.53°	No	-45.66°	No
Gyro_multi	162.00	180.42°	No	-45.61°	No
Gyro_multi	165.00	180.45°	No	-45.66°	No
Gyro_multi	168.00	180.25°	No	-45.65°	No
Gyro_multi	171.00	180.29°	No	-45.66°	No
Gyro_multi	174.00	180.08°	No	-45.63°	No
Gyro_multi	177.00	180.10°	No	-45.61°	No
Gyro_multi	180.00	179.99°	No	-45.57°	No
Gyro_multi	183.00	179.90°	No	-45.54°	No
Gyro_multi	186.00	180.00°	No	-45.55°	No
Gyro_multi	189.00	179.89°	No	-45.56°	No
Gyro_multi	192.00	180.03°	No	-45.51°	No
Gyro_multi	195.00	179.96°	No	-45.53°	No
Gyro_multi	198.00	179.96°	No	-45.60°	No
Gyro_multi	201.00	179.88°	No	-45.62°	No
Gyro_multi	204.00	179.86°	No	-45.58°	No
Gyro_multi	207.00	179.95°	No	-45.57°	No
Gyro_multi	210.00	180.07°	No	-45.46°	No
Gyro_multi	213.00	180.10°	No	-45.46°	No
Gyro_multi	216.00	180.16°	No	-45.42°	No
Gyro_multi	219.00	180.24°	No	-45.41°	No
Gyro_multi	222.00	180.17°	No	-45.47°	No
Gyro_multi	225.00	180.09°	No	-45.49°	No
Gyro_multi	228.00	180.17°	No	-45.47°	No
Gyro_multi	231.00	180.20°	No	-45.46°	No
Gyro_multi	234.00	180.18°	No	-45.37°	No
Gyro_multi	237.00	180.17°	No	-45.38°	No
Gyro_multi	240.00	180.14°	No	-45.43°	No
Gyro_multi	243.00	180.09°	No	-45.42°	No
Gyro_multi	246.00	180.09°	No	-45.41°	No
Gyro_multi	249.00	179.99°	No	-45.40°	No
Gyro_multi	252.00	180.10°	No	-45.40°	No
Gyro_multi	255.00	179.98°	No	-45.32°	No
Gyro_multi	258.00	180.10°	No	-45.32°	No

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Down hole survey

Type	Depth	Azimuth	Invalid...	Dip	Invalid...
Gyro_multi	261.00	180.06°	No	-45.34°	No
Gyro_multi	264.00	180.05°	No	-45.28°	No
Gyro_multi	267.00	180.02°	No	-45.35°	No
Gyro_multi	270.00	179.97°	No	-45.38°	No
Gyro_multi	273.00	179.96°	No	-45.42°	No
Gyro_multi	276.00	179.90°	No	-45.56°	No
Gyro_multi	279.00	179.88°	No	-45.52°	No
Gyro_multi	282.00	179.95°	No	-45.46°	No
Gyro_multi	285.00	180.03°	No	-45.47°	No
Gyro_multi	288.00	180.00°	No	-45.47°	No
Gyro_multi	291.00	179.87°	No	-45.50°	No
Gyro_multi	294.00	179.99°	No	-45.47°	No
Gyro_multi	297.00	179.97°	No	-45.46°	No
Gyro_multi	300.00	179.99°	No	-45.47°	No
Gyro_multi	303.00	180.03°	No	-45.52°	No
Gyro_multi	306.00	180.06°	No	-45.59°	No
Gyro_multi	309.00	180.09°	No	-45.68°	No
Gyro_multi	312.00	180.00°	No	-45.74°	No
Gyro_multi	315.00	180.01°	No	-45.86°	No
Gyro_multi	318.00	180.06°	No	-45.91°	No
Gyro_multi	321.00	180.13°	No	-45.98°	No
Gyro_multi	324.00	180.03°	No	-46.04°	No
Gyro_multi	327.00	179.82°	No	-46.09°	No
Gyro_multi	330.00	179.80°	No	-46.10°	No
Gyro_multi	333.00	179.74°	No	-46.12°	No
Gyro_multi	336.00	179.81°	No	-46.12°	No
Gyro_multi	339.00	179.69°	No	-46.17°	No
Gyro_multi	342.00	179.76°	No	-46.11°	No
Gyro_multi	345.00	179.84°	No	-46.05°	No
Gyro_multi	348.00	179.86°	No	-46.12°	No
Gyro_multi	351.00	179.84°	No	-46.05°	No
Gyro_multi	352.00	179.82°	No	-45.93°	No

Laurentia Exploration Inc.

Description		
0.00	10.80	<p>MT</p> <p>Overburden</p> <p>Casing</p>
10.80	39.15	<p>I2D; GM</p> <p>Syenite; Medium-grained</p> <p>Syenite: Light pinkish syenite, medium-grained, composed of pinkish K-feldspar floating in K-feldspar matrix with 15% of finely disseminated amphibole-magnetite assemblage. These spots begin as cm patches from 32 to 39.15 m with decreasing quantity (5-10%) but associated with stronger magnetism. Locally (from 15 to 15.50 m, 30-31.50 m, 36-36.50 m), some coarse-grained K-feldspar/green amphibole injections/veins are composed of dark purple fluorine injected by orangish fine irregular minerals giving some REE composition by XRF (0.12-0.32% La, 0.17-0.45% Ce and 0.15% Nd, around 0.5-1% TREE). These particular minerals may be bastnäsite. At 32.90 m, one pluri-centimetric greenish amphibole patch contains 5% of hairy-textured and orangish carbonate containing 1.2% Ce, 1% La and 0.4% Nd. Locally, the unit is foliated but not mainly. Pinkish color and disseminated amphibole may indicate potassic and fenite alteration. Weak to moderately magnetic. Lower contact is sharp and orientated at 35 tca.</p>
10.80	39.15	<p>FK02; FN02</p> <p>Potassic feldspar 2; Fenitization 2</p> <p>Pinkish color and disseminated amphibole can be indicating potassic and fenite alteration</p>
10.80	39.15	<p>FA03</p> <p>Fractured 3 45°</p> <p>The rock is moderately fractures by network of fractures orientated at 40-50 tca.</p>
15.00	15.50	<p>Fir02; REE Mineral00.01</p> <p>Fluorite 2%; REE Mineral 0.01%</p> <p>Coarse grained K-feldspar/green amphibole injection/veins are composed by dark purple fluorine injected by orangish fine irregular minerals giving some REE composition (0.12-0.32 % La, 0.17-0.45 % Ce and 0.15 % Nd, around 0.5-1 % TREE).</p>
30.00	31.50	<p>Fir01; REE Mineral00.01</p> <p>Fluorite 1%; REE Mineral 0.01%</p> <p>Coarse grained K-feldspar/green amphibole injection/veins are composed by dark purple fluorine injected by orangish fine irregular minerals giving some REE composition (0.22-0.55 % La, 0.37-0.7 % Ce and 0.1-0.2 % Nd).</p>
32.90	32.95	<p>REE Mineral02</p> <p>REE Mineral 2%</p> <p>At 32.90 m, one pluri centimetric greenish amphibole patche contains 5 % of hairy textured and orangish carbonate containing 1.2 % Ce, 1 % La and 0.4 % Nd. These particular minerals can be bastnäsite</p>
36.00	36.50	<p>Fir01; REE Mineral00.01</p> <p>Fluorite 1%; REE Mineral 0.01%</p> <p>Coarse grained K-feldspar/green amphibole injection/veins are composed by dark purple fluorine injected by orangish fine irregular minerals giving some REE composition (0.16 % La, 0.2 % Ce and 0.1% Nd, around 0.5 % TREE)</p>
39.15	122.50	<p>I2D; GF</p> <p>Syenite; Fine-grained</p> <p>Syenite: Grey syenite, fine-grained, composed of aphanitic to fine-grained beige to pinkish K-feldspar matrix with 15% of finely disseminated</p>

Laurentia Exploration Inc.

Description

amphibole spots. Poorly to weakly magnetic, increasing in depth until 88 m where the unit loses its magnetism. Mainly not deformed. Alteration and deformation zone associated, from 87.90 to 91.60 m. Sheared zone associated with a mix of strong ferrous carbonate, silica and ferro-magnesian alteration, forming flowing and patchy textures. These parts contain 8-15% Si, 18-25% Ca, 3.5-5% Fe, 1.8-4.8% Al and up to 0.5% REE composed of La, Ce and Nd. Especially from 91 to 91.6 m, REE content is higher with locally at the lower border 0.7% La, 0.3% Nd and 1% Ce. Locally from 92 to 93 m, injection of medium-grained, amphibole-rich pinkish syenite 10 cm wide is orientated at 60 tca. Another particular zone from 102 to 118 m, grey syenite is injected by K-feldspar-supported and pegmatitic textured veins, possibly hydrothermal breccia. These veins are at low angle mostly around 20-30 tca, associated with interstitial green amphibole and reddish mineralized phases, sometimes with mm sharp clusters or veinlets of Py. XRFp analysis shows less than 0.1% TREE. Lower contact is transitional with coarse-grained pinkish syenite.

87.90 91.60 CB04; Si04

Carbonated 4; Silicification 4

Sheared zone associated with mix of strong ferrous carbonate, silica and ferro-magnesian alteration, forming flowding texture and patchy texture.

87.90 90.10 C04

Sheared4 40°

Sheared zone associated with strong alteration at 40-45 tca.

87.90 90.10 REE Mineral00.01

REE Mineral 0.01%

These part contain up to 0.5 % REE composed by La, Ce and Nd.

91.00 91.60 C04

Sheared4 65°

Sheared zone associated with strong alteration at 65 tca.

91.00 91.60 REE Mineral00.5

REE Mineral 0.5%

Especially from 91 to 91.6 m, content in REE is higher with locally in the lower border, 0.7 % La, 0.3 % Nd and 1 % Ce

102.00 109.00 FK03

Potassic feldspar 3

Pegmatitic fractures-controlled potassic alteration.

102.00 118.00 BR03

Brecciated3 30°

Grey syenite is injected by K-felspar supported and pegmatitic textured veins can be interpreted like a hydrothermal breccia.

122.50 126.25 I2D; GG

Syenite; Coarse-grained

Syenite: Pinkish syenite, coarse-grained, composed of pinkish K-feldspar matrix with 3% patchy amphibole. Not magnetic. Not deformed and not mineralized. Geochemical composition: Si 29.3%, Al 9.1%, K 5.2%, Fe 2.3%, Ca 1.7%, Ti 0.15%. Lower contact is sharp at 45 tca with chloritized-carbonatized hydrothermal breccia.

126.25 131.70 BR

Breccia 40°

Laurentia Exploration Inc.

Description

			Hydrothermal breccia, green, clast-supported, rounded clasts, clasts are intensely chloritized with carbonate cement. This breccia is mineralized by flooded and semi-massive magnetite and Py-Po, up to 5% Mg and 1-2% Py-Po. Lower contact is sharp and orientated at 65 tca.
126.25	131.70	CL05; CB03	
		Chloritization 5; Carbonated 3	
			Intensely chloritized with carbonate cement (moderate carbonatation)
126.25	131.70	BR05	
		Brecciated 5 45°	
			Hydrothermal breccia, green, clast supported, rounded clasts, clasts are intensely chloritized with carbonate cement.
126.25	131.70	MG05; PO01; PY01	
		Magnetite 5%; Pyrrhotite 1%; Pyrite 1%	
			This breccia is mineralized by flooded and semi massive magnetite and Py-Po, up to 5 % Mg and 1-2 % Py-Po.
131.70	132.50	I2D; GG	
		Syenite; Coarse-grained	
			Syenite: Pinkish syenite, coarse-grained, composed of pinkish K-feldspar matrix with 3% foliated patchy amphibole. Not magnetic. Not deformed and not mineralized. Lower contact is sharp at 60 tca.
132.50	266.70	I2D; GM-GG	
		Syenite; Medium- to coarse-grained	
			Syenite: Greyish with more pinkish parts syenite, medium- to coarse-grained, composed of beige to greyish K-feldspar with 15-20% ferromagnesian minerals. Poorly to weakly magnetic. Moderately to strongly fractured from 150 to 168 m with fracture families orientated at 30 and 50 tca. Locally some intervals weakly altered by potassic alteration from 148.50 to 163.50 m. Lower contact is brecciated with the same pinkish coarse-grained syenite locally cutting the grey syenite.
148.50	163.50	FK02	
		Potassic feldspar 2	
			Locally some interval are weakly altered by potassic alteration from 148.50 to 163,50 m
150.00	168.00	FA03	
		Fractured 3 40°	
			Moderately to strongly fractured from 150 to 168 m with fractures family orientated at 30 and 50 tca
179.30	182.15	I3; GF	
		Mafic intrusive; Fine-grained	
			Mafic intrusiv, grey, very fine grained, not mag, not deformed and not mineralized. Coarse grained syenite enclave fome 181 to 181.10 m. Lower contact is sharp at 65 tca.
214.70	217.00	AM03; FK02	
		Amphibolitization 3; Potassic feldspar 2	
			Moderate amphibolitization with potassic alteration.
227.30	227.50	Flr10; REE Mineral00.5	
		Fluorite 10%; REE Mineral 0.5%	
			10% of disseminated fluorite. Also reddish-white anhedral minerals. Local XRF analysis returns 0,66% Ce, 0,47% La and 0,16% Nd.

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Description

265.00	265.20	<p>REE Mineral00.5; Flr03 REE Mineral 0.5%; Fluorite 3% Amphibole rich veining brecciating the syenite containing 3% fluorite. XRF value : 0.88% Ce, 0.68% La, 0.31% Nd.</p>
266.70	351.00	<p>I2D; GG; MA Syenite; Coarse-grained; Massive Syenite: Coarse-grained massive pinkish syenite. 15% ferromagnesian, mostly amphibole, locally greenish pyroxene with dark amphibole rim and traces of biotite. Local amphibole-rich intervals contain 1-5% fluorite. Traces of apatite. Locally minor amount of white-beige phases as well as orangish anhedral minerals. No reaction to HCl. Locally weakly magnetic. Scattered REE mineralization associated with ferromagnesian-fluorine-rich banding. At 300.1 m, centimetric magnetite blebs. From 346.2 to 346.7 m, mostly made of amphibole/pyroxene with fluorine. Accessory minerals are titanite, apatite and zircon. Some grey medium-grained syenite alternates with the pinkish syenite. EOH 351 m.</p>
272.50	272.70	<p>REE Mineral00.1 REE Mineral 0.1% Reddish mineral returning 0.42% Ce, 0.31% La and 0.13% Nd.</p>
291.65	291.75	<p>REE Mineral00.1; Flr03 REE Mineral 0.1%; Fluorite 3% 5 cm of ferromagnesian vein with fluorine and calcite. XRF value : 0.42% La, 0.29% Nd, 0,59% Ce.</p>
345.00	348.00	<p>Flr04; REE Mineral00.1 Fluorite 4%; REE Mineral 0.1% Interval with 2-4% fluorite, traces of REE minerals, apatite and mostly composed of black amphibole/pyroxene from 346,2 to 346,7 m. XRF value : 1.6% P2O5, 0.1% Ce, 610 ppm La, 190 ppm Pr.</p>

Laurentia Exploration Inc.

Assay - Sample						
From	To	Sample number	TREO (sum lanthanide) (%)	CeO2_Calc (%)	La2O3_Calc (%)	Nd2O3_Calc (%)
12.00	13.50	L787523	0.13	0.064	0.034	0.021
13.50	15.00	L787524	0.08	0.038	0.022	0.012
15.00	15.50	L787525	0.16	0.077	0.044	0.025
15.50	16.50	L787526	0.10	0.048	0.027	0.016
16.50	18.00	L787527	0.09	0.042	0.024	0.014
18.00	19.50	L787528	0.11	0.052	0.031	0.016
19.50	20.00	L787529	0.24	0.113	0.069	0.034
20.00	21.00	L787531	0.27	0.126	0.078	0.037
21.00	22.50	L787532	0.08	0.038	0.021	0.013
22.50	24.00	L787533	0.18	0.084	0.049	0.026
24.00	25.50	L787534	0.21	0.101	0.059	0.030
25.50	27.00	L787535	0.14	0.067	0.039	0.021
27.00	28.50	L787536	0.18	0.083	0.048	0.026
28.50	30.00	L787537	0.25	0.117	0.065	0.037
30.00	31.00	L787538	0.42	0.199	0.112	0.061
31.00	31.50	L787539	0.38	0.179	0.107	0.052
31.50	32.50	L787541	0.17	0.081	0.048	0.025
32.50	33.00	L787542	0.13	0.061	0.035	0.019
33.00	34.50	L787543	0.13	0.063	0.035	0.019
34.50	36.00	L787544	0.14	0.066	0.035	0.021
36.00	36.50	L787545	0.31	0.147	0.080	0.046
36.50	37.50	L787546	err	err	err	err
37.50	38.30	L787547	err	err	err	err
38.30	39.15	L787548	err	err	err	err
39.15	40.50	L787549	err	err	err	err
40.50	42.00	L787550	err	err	err	err
54.00	55.50	L787552	err	err	err	err
55.50	57.00	L787553	err	err	err	err
57.00	58.50	L787554	err	err	err	err
58.50	60.00	L787555	err	err	err	err
69.00	70.50	L787556	err	err	err	err
70.50	72.00	L787557	err	err	err	err
72.00	73.50	L787558	err	err	err	err
73.50	75.00	L787559	err	err	err	err
81.00	82.50	L787561	err	err	err	err
82.50	84.00	L787562	err	err	err	err

Laurentia Exploration Inc.

Assay - Sample						
From	To	Sample number	TREO (sum lanthanide) (%)	CeO2_Calc (%)	La2O3_Calc (%)	Nd2O3_Calc (%)
84.00	85.50	L787563	err	err	err	err
85.50	87.00	L787564	err	err	err	err
87.00	87.90	L787565	0.11	0.051	0.028	0.018
87.90	88.50	L787566	0.76	0.351	0.259	0.086
88.50	89.00	L787567	0.54	0.259	0.172	0.066
89.00	89.50	L787568	0.29	0.139	0.093	0.034
89.50	90.10	L787569	0.52	0.249	0.176	0.058
90.10	91.00	L787571	0.06	0.026	0.018	0.009
91.00	91.60	L787572	0.74	0.359	0.215	0.096
91.60	92.10	L787573	0.09	0.044	0.029	0.012
92.10	93.00	L787574	0.10	0.041	0.027	0.014
93.00	94.50	L787575	0.15	0.069	0.042	0.022
94.50	96.00	L787576	0.12	0.057	0.035	0.018
96.00	97.50	L787577	0.09	0.042	0.020	0.016
102.00	103.50	L787578	err	err	err	err
103.50	105.00	L787579	err	err	err	err
105.00	106.50	L787580	err	err	err	err
106.50	108.00	L787581	err	err	err	err
108.00	109.00	L787582	err	err	err	err
109.00	110.00	L787583	err	err	err	err
120.00	121.00	L787584	err	err	err	err
121.00	122.50	L787585	err	err	err	err
122.50	124.00	L787586	err	err	err	err
124.00	125.50	L787587	err	err	err	err
125.50	126.25	L787588	err	err	err	err
126.25	127.00	L787589	err	err	err	err
127.00	128.00	L787591	err	err	err	err
128.00	129.00	L787592	err	err	err	err
129.00	130.00	L787593	err	err	err	err
130.00	131.00	L787594	err	err	err	err
131.00	131.70	L787595	err	err	err	err
131.70	132.50	L787596	err	err	err	err
132.50	134.00	L787597	err	err	err	err
134.00	135.00	L787598	err	err	err	err
135.00	136.50	L787599	err	err	err	err
136.50	138.00	L787601	err	err	err	err

Laurentia Exploration Inc.

Assay - Sample						
From	To	Sample number	TREO (sum lanthanide) (%)	CeO2_Calc (%)	La2O3_Calc (%)	Nd2O3_Calc (%)
150.00	151.50	L787602	err	err	err	err
151.50	153.00	L787603	err	err	err	err
153.00	154.50	L787604	err	err	err	err
154.50	156.00	L787605	err	err	err	err
171.00	172.50	L787606	err	err	err	err
172.50	174.00	L787607	err	err	err	err
174.00	175.50	L787608	err	err	err	err
175.50	177.00	L787609	err	err	err	err
196.50	198.00	L787610	err	err	err	err
198.00	199.50	L787611	err	err	err	err
199.50	201.00	L787613	err	err	err	err
212.50	214.00	L787614	err	err	err	err
214.00	215.50	L787615	err	err	err	err
215.50	217.00	L787616	err	err	err	err
217.00	218.50	L787617	err	err	err	err
218.50	220.00	L787618	err	err	err	err
225.70	227.20	L787619	err	err	err	err
227.20	227.70	L787620	err	err	err	err
227.70	229.20	L787621	0.18	0.084	0.043	0.031
258.00	259.50	L787623	0.20	0.097	0.057	0.028
259.50	261.00	L787624	err	err	err	err
261.00	262.50	L787625	err	err	err	err
262.50	264.00	L787626	err	err	err	err
264.00	265.00	L787627	err	err	err	err
265.00	265.50	L787628	err	err	err	err
265.50	267.00	L787629	err	err	err	err
267.00	268.50	L787630	err	err	err	err
268.50	270.00	L787631	err	err	err	err
270.00	271.50	L787632	err	err	err	err
271.50	273.00	L787634	err	err	err	err
273.00	274.00	L787635	err	err	err	err
274.00	275.50	L787636	err	err	err	err
290.00	291.50	L787637	err	err	err	err
291.50	292.00	L787638	err	err	err	err
292.00	293.50	L787639	err	err	err	err
298.50	300.00	L787640	err	err	err	err

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Assay - Sample

From	To	Sample number	TREO (sum lanthanide) (%)	CeO2_Calc (%)	La2O3_Calc (%)	Nd2O3_Calc (%)
300.00	300.50	L787642	err	err	err	err
300.50	302.00	L787643	err	err	err	err
302.00	303.50	L787644	err	err	err	err
303.50	305.00	L787645	err	err	err	err
305.00	306.50	L787646	err	err	err	err
310.00	311.50	L787647	err	err	err	err
311.50	313.00	L787648	err	err	err	err
313.00	314.50	L787649	err	err	err	err
314.50	316.00	L787650	err	err	err	err
316.00	317.50	L787651	err	err	err	err
343.50	345.00	L787652	err	err	err	err
345.00	346.00	L787653	err	err	err	err
346.00	347.00	L787654	err	err	err	err
347.00	348.50	L787655	err	err	err	err
348.50	350.00	L787656	err	err	err	err

Survey:	CH-25-07	Claims title:	763278	Section:	
Contractor:	Chibougamau Drilling	Township:	Clay	Level:	Surface
Author:	Frédéric Massei, M.Sc., P. Geo (1882)	Range:		Work place:	Clay Howells
		Lot:		Provincial Cell grid:	42G16A075
		Start date:	2025-10-01	Description date:	2025-10-02
		End date:	2025-10-03		

Collar:

Azimuth:	180.00°	UTM NAD83 Zone 17		
Dip:	-45.00°	East	425691.00	
Length:	297.00 (m)	North	5518935.00	
		Elevation	218.40 (m)	

Down hole survey:

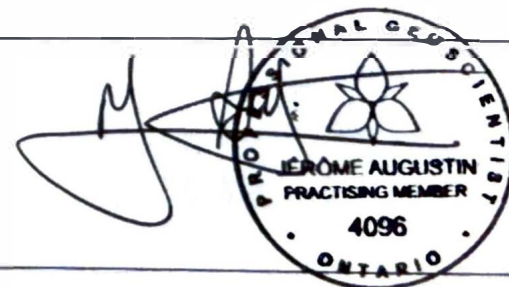
Type	Depth	Azimuth	Dip	Type	Depth	Azimuth	Dip
Collar	0.00	180.00°	-45.00°	Gyro_multi	21.00	177.97°	-46.11°
Gyro_multi	3.00	178.60°	-45.71°	Gyro_multi	24.00	178.00°	-46.08°
Gyro_multi	6.00	178.13°	-45.88°	Gyro_multi	27.00	177.99°	-46.10°
Gyro_multi	9.00	177.93°	-45.89°	Gyro_multi	30.00	177.98°	-46.08°
Gyro_multi	12.00	177.91°	-46.00°	Gyro_multi	33.00	178.02°	-46.06°
Gyro_multi	15.00	177.93°	-46.08°	Gyro_multi	36.00	177.97°	-46.04°
Gyro_multi	18.00	177.93°	-46.11°	-----	-----	-----	-----

Nombre d'échantillons: 71
Nombre d'échantillons QAQC: 9
Longueur totale échantillonnée: 94.70 (m)

Nombre d'échantillons roche totale: 20

Description:

1 round, 18 shell. water from pumpshack near river 1.2 km to NE
 Core storage: Jonquière (Québec, Canada) at Laurentia Exploration office
 Artesian : No
 Casing: Left in place. Cap installed, screwed on tube.



Core size: BTW

Cemented: No

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Down hole survey					
Type	Depth	Azimuth	Invalid...	Dip	Invalid...
Gyro_multi	39.00	178.02°	No	-46.03°	No
Gyro_multi	42.00	178.01°	No	-46.06°	No
Gyro_multi	45.00	178.08°	No	-46.09°	No
Gyro_multi	48.00	178.01°	No	-46.08°	No
Gyro_multi	51.00	178.15°	No	-46.07°	No
Gyro_multi	54.00	178.13°	No	-46.06°	No
Gyro_multi	57.00	178.05°	No	-46.04°	No
Gyro_multi	60.00	178.08°	No	-46.04°	No
Gyro_multi	63.00	178.11°	No	-46.02°	No
Gyro_multi	66.00	178.10°	No	-46.02°	No
Gyro_multi	69.00	178.13°	No	-46.00°	No
Gyro_multi	72.00	178.01°	No	-46.00°	No
Gyro_multi	75.00	178.10°	No	-46.03°	No
Gyro_multi	78.00	178.11°	No	-46.02°	No
Gyro_multi	81.00	178.11°	No	-45.98°	No
Gyro_multi	84.00	178.12°	No	-45.97°	No
Gyro_multi	87.00	178.15°	No	-45.93°	No
Gyro_multi	90.00	178.16°	No	-45.93°	No
Gyro_multi	93.00	178.18°	No	-45.88°	No
Gyro_multi	96.00	178.15°	No	-45.89°	No
Gyro_multi	99.00	178.21°	No	-45.89°	No
Gyro_multi	102.00	178.16°	No	-45.86°	No
Gyro_multi	105.00	178.24°	No	-45.86°	No
Gyro_multi	108.00	178.21°	No	-45.85°	No
Gyro_multi	111.00	178.19°	No	-45.83°	No
Gyro_multi	114.00	178.28°	No	-45.85°	No
Gyro_multi	117.00	178.25°	No	-45.83°	No
Gyro_multi	120.00	178.21°	No	-45.81°	No
Gyro_multi	123.00	178.21°	No	-45.81°	No
Gyro_multi	126.00	178.19°	No	-45.80°	No
Gyro_multi	129.00	178.22°	No	-45.80°	No
Gyro_multi	132.00	178.20°	No	-45.76°	No
Gyro_multi	135.00	178.17°	No	-45.79°	No
Gyro_multi	138.00	178.09°	No	-45.75°	No
Gyro_multi	141.00	178.10°	No	-45.75°	No
Gyro_multi	144.00	178.11°	No	-45.71°	No
Gyro_multi	147.00	178.09°	No	-45.75°	No

Laurentia Exploration Inc.

Down hole survey						
Type	Depth	Azimuth	Invalid...	Dip	Invalid...	
Gyro_multi	150.00	178.10°	No	-45.74°	No	
Gyro_multi	153.00	178.05°	No	-45.71°	No	
Gyro_multi	156.00	178.09°	No	-45.69°	No	
Gyro_multi	159.00	178.06°	No	-45.69°	No	
Gyro_multi	162.00	178.06°	No	-45.79°	No	
Gyro_multi	165.00	177.99°	No	-45.72°	No	
Gyro_multi	168.00	177.95°	No	-45.72°	No	
Gyro_multi	171.00	177.98°	No	-45.73°	No	
Gyro_multi	174.00	177.94°	No	-45.74°	No	
Gyro_multi	177.00	177.97°	No	-45.75°	No	
Gyro_multi	180.00	177.96°	No	-45.73°	No	
Gyro_multi	183.00	177.91°	No	-45.75°	No	
Gyro_multi	186.00	177.93°	No	-45.74°	No	
Gyro_multi	189.00	177.92°	No	-45.74°	No	
Gyro_multi	192.00	177.89°	No	-45.71°	No	
Gyro_multi	195.00	177.87°	No	-45.72°	No	
Gyro_multi	198.00	177.95°	No	-45.72°	No	
Gyro_multi	201.00	177.91°	No	-45.73°	No	
Gyro_multi	204.00	177.93°	No	-45.72°	No	
Gyro_multi	207.00	177.97°	No	-45.72°	No	
Gyro_multi	210.00	177.93°	No	-45.73°	No	
Gyro_multi	213.00	177.99°	No	-45.73°	No	
Gyro_multi	216.00	177.93°	No	-45.76°	No	
Gyro_multi	219.00	177.89°	No	-45.77°	No	
Gyro_multi	222.00	177.82°	No	-45.77°	No	
Gyro_multi	225.00	177.79°	No	-45.78°	No	
Gyro_multi	228.00	177.64°	No	-45.79°	No	
Gyro_multi	231.00	177.57°	No	-45.79°	No	
Gyro_multi	234.00	177.56°	No	-45.79°	No	
Gyro_multi	237.00	177.64°	No	-45.82°	No	
Gyro_multi	240.00	177.40°	No	-45.81°	No	
Gyro_multi	243.00	177.28°	No	-45.75°	No	
Gyro_multi	246.00	177.17°	No	-45.80°	No	
Gyro_multi	249.00	177.22°	No	-45.78°	No	
Gyro_multi	252.00	177.15°	No	-45.79°	No	
Gyro_multi	255.00	177.07°	No	-45.78°	No	
Gyro_multi	258.00	177.03°	No	-45.69°	No	

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Down hole survey

Type	Depth	Azimuth	Invalid...	Dip	Invalid...
Gyro_multi	261.00	176.96°	No	-45.67°	No
Gyro_multi	264.00	177.12°	No	-45.72°	No
Gyro_multi	267.00	176.98°	No	-45.72°	No
Gyro_multi	270.00	177.07°	No	-45.64°	No
Gyro_multi	273.00	177.15°	No	-45.69°	No
Gyro_multi	276.00	177.08°	No	-45.68°	No
Gyro_multi	279.00	177.13°	No	-45.76°	No
Gyro_multi	282.00	176.96°	No	-45.72°	No
Gyro_multi	285.00	177.09°	No	-45.68°	No
Gyro_multi	288.00	177.19°	No	-45.74°	No
Gyro_multi	291.00	177.11°	No	-45.73°	No
Gyro_multi	294.00	177.14°	No	-45.62°	No
Gyro_multi	297.00	176.96°	No	-45.63°	No

Laurentia Exploration Inc.

Description		
0.00	12.00	MT Overburden Overburden.
12.00	21.00	I2F; GM; GG; MA Monzonite; Medium-grained; Coarse-grained; Massive Greyish medium to coarse grained moderately magnetic intermediate rock. The composition is more likely monzonitic. The rock is made of plagioclase, K-feldspar, biotite, pyroxene and amphibole for a total of 25% ferromagnesian. Titanite and apatite are accessory. The lower contact is progressiv.
21.00	44.05	I2D; MA; GM-GG Syenite; Massive; Medium- to coarse-grained Dark pinkish with dark inter-grains medium to coarse grained massive syenite with 30% of ferromagnesian (amphibole, pyroxene and biotite). Weakly magnetic. The unit is heterogeneous with local coarse-grained sections and a varying pourcentage of ferromagnesian that are locally dominant. An interval with 4% fluorine from 24,75 to 25,3 m associated with fine-grained syenitic dark grey injection. From 26 to 26,2 m, 8% of whitish minerals (albite ?) around the pyroxenes. The rim also contain calcite. At 38,2 m, strong carbonatization on 10 cm and abundant ferromagnesian from 38 to 38,8 m. From 39,5 to 42 m, the core is more pink and red and have a more potassic composition. Diffuse lower contact.
24.75	25.30	F1r04 Fluorite 4% An interval with 4% fluorine from 24,75 to 25,3 m associated with fine-grained syenitic dark grey injection.
44.05	59.40	I2F; GM-GG; MA Monzonite; Medium- to coarse-grained; Massive Same rock than from 12 to 21 m. Dark grey color, medium to rarely coarse grained. 15% of light brown anhedral millimetric mineral associated with the dark ferromagnesian, 5% biotite and 2-3% of orange accessory minerals (titanite). Lower contact at 60 CA.
52.20	52.60	I2D; GG Syenite; Coarse-grained 55° Pinkish massive coarse-grained syenite injection.
59.40	63.70	I2D; MA; GG Syenite; Massive; Coarse-grained grey-pink alkali syenite with 12% of light brown pyroxene with dark amphibole rim. The rock is corase-grained, homogeneous, moderately magntetic and massive. Irregular lower contact.
59.40	63.70	BO03 Biotitization 3 15% of biotite centimetric patches.
61.70	61.75	Vn;1 cm;QZ CB;T;50°;; Veine 1 cm Quartz Carbonate Tension 50° 0,5-1 cm silica-calcite veinlet at 50 CA with orangish iron oxides.
63.70	138.80	I3A; GM-GG; MA Gabbro; Medium- to coarse-grained; Massive 35°

Laurentia Exploration Inc.

Description

		Dark grey leucogabbro made of grey slightly blueish plagioclase, 15% of biotite centimetric patches, pyroxenes and amphiboles. Massive, homogeneous and medium to coarse-grained. Strongly magnetic. Rare spotted potassic alteration. Accessory apatite, K-feldspar and titanite. The unit is locally intruded by syenite or monzodiorite. Fractured core from 108 to 110,5 m and from 122,8 to 125,4 m. Lower contact at 35 CA.
107.90	108.15	Vn;2 cm;CC CL;T;15°;; Veine 2 cm Calcite Chlorite Tension 15° Banded white and very dark green vein at 15 CA made of calcite and chlorite.
108.00	110.50	FA02 Fractured2 Weakly fractured core.
108.90	109.40	K03 Potassic 3 Local potassic alteration.
109.50	110.05	Vn;2 cm;CL CC;T;15°;; Veine 2 cm Chlorite Calcite Tension 15° Probably the same vein than from 107,9 to 108,15 m made of chlorite-carbonate.
111.25	112.00	Vn;2 cm;CC CL;T;15°;; Veine 2 cm Calcite Chlorite Tension 15° 2 cm thick calcite-chlorite vein subparallel to the core axis. 3% of a light brown mineral and traces of quartz.
119.00	128.00	K01 Potassic 1 Weak potassic alteration.
123.80	125.40	FA02 Fractured2 Weakly fractured core.
123.90	124.00	Vn;2 cm;CL CC QZ;T;45°;; Veine 2 cm Chlorite Calcite Quartz Tension 45° Chlorite-calcite-quartz vein at 45 CA.
138.80	141.50	I2D; GG; MA Syenite; Coarse-grained; Massive 65° Pink-reddish coarse-grained syenite to alkali syenite containing 15% of ferromagnesian minerals, mostly amphibole, pyroxene and 1-5% biotite locally as rim around amphibole. 1% of millimetric magnetite grains making the rock magnetic. No reaction to HCl. Lower contact is sharp and at 65 CA.
141.50	143.95	I3A; MA; GM Gabbro; Massive; Medium-grained 60° Medium-grained medium to dark grey leuco-gabbro with 5-15% of biotite patches, amphiboles and pyroxenes. Moderately magnetic, massive and varying in ferromagnesian composition. Lower contact is sharp and at 60 CA.
141.85	142.10	I2D; GG; MA

Laurentia Exploration Inc.

Description

		<p>Syenite; Coarse-grained; Massive 70° Coarse-grained syenitic injection. Sheared lower contact at 70 CA.</p>
142.65	142.75	<p>Vn;1 cm;CC;T;35°;; Veine 1 cm Calcite Tension 35° 1 cm thick calcite vein with amphibole crystals, oriented at 35 CA.</p>
143.95	145.30	<p>GM-GG; MA; PO Medium- to coarse-grained; Massive; Porphyritic Medium grey medium to coarse-grained massive homogeneous non-magnetic monzodiorite. It contains 5% of acicular black amphiboles and 5% of fine biotite. Sharp but wavy lower contact globally at 20 CA.</p>
145.30	154.35	<p>I3A; MA; GM-GG Gabbro 70°; Massive; Medium- to coarse-grained Medium-grained medium to dark grey leuco-gabbro with 5-15% of biotite patches, amphiboles and pyroxenes. Moderately magnetic, massive and varying in ferromagnesian composition. Lower contact is sharp and at 70 CA.</p>
152.60	153.00	<p>I2H; MA; PO; GM-GG Monzodiorite; Massive; Porphyritic; Medium- to coarse-grained 70° Medium grey porphyritic injection at 70 CA. Not magnetic.</p>
154.35	160.10	<p>I2H; PO; GM-GG; MA Monzodiorite 15°; Porphyritic; Medium- to coarse-grained; Massive Medium grey medium to coarse-grained massive homogeneous non-magnetic monzodiorite. It contains 5% of acicular black amphiboles and 5% of fine biotite. 3% of chlorite-calcite hairline veinlets with a yellowish halo of sericite-albite alteration. Sharp but wavy lower contact globally at 15 CA.</p>
154.35	160.10	<p>SR02; AB02 Sericitization 2; Albitization 2 3% of chlorite-calcite hairline veinlets with a yellowish halo of sericite-albite alteration.</p>
160.10	184.35	<p>I3A; MA; GM-GG Gabbro; Massive; Medium- to coarse-grained Medium-grained medium to dark grey leuco-gabbro with 5-15% of biotite patches, amphiboles and pyroxenes. Moderately magnetic, massive and varying in ferromagnesian composition. Diffuse lower contact.</p>
184.35	188.70	<p>I2D; GG Syenite; Coarse-grained Whitish-pinkish coarse-grained massive moderately magnetic syenite. 15% of pyroxene/amphibole, generally blackish but locally with a brownish core. No reaction to HCl. Diffuse lower contact around 188,7 m.</p>
186.45	186.75	<p>Vn;0.5 cm;CL;T;25°;; Veine 0.5 cm Chlorite Tension 25° 0,5 cm thick black chloritic vein.</p>
188.70	231.70	<p>I3A; GM-GG; MA Gabbro; Medium- to coarse-grained; Massive 45° Medium-grained medium to dark grey leuco-gabbro with 5-15% of biotite patches, amphiboles and pyroxenes. Moderately magnetic, massive</p>

Laurentia Exploration Inc.

Description

		and varying in ferromagnesian composition. Diffuse lower contact but globally at 45 CA.
209.20	209.55	Vns;3%;CL CC;T;45°;; Veines 3% Chlorite Calcite Tension 45° 2 mm to 1 cm thick calcite-chlorite veinlets at 45 CA.
224.30	225.00	Vn;0.5 cm;CL;T;0°;; Veine 0.5 cm Chlorite Tension 0° Chloritic vein parallel to the core axis.
231.70	235.20	I2D; MA; PO Syenite 80°; Massive; Porphyritic Small interval made of coarse-grained K-feldspar and labradorite showing labradorescence. Feldspars are as porphyroclasts in a dark amphibole-pyroxene-biotite matrix. The rock is strongly magnetic. From 233,65 to 235 m, Strong fenitization and calcite crystals around 234,2 m. The rock is made of grey-blueish labradorite and K-feldspar. Diffuse lower contact but globally around 80 CA.
233.65	235.00	FN03 Fenitization 3 Fenitization marking by intense reddish K-feldspar. Presence of calcite crystals around 234,2 m.
235.20	239.10	I3A; GM-GG; MA Gabbro; Medium- to coarse-grained; Massive Medium-grained medium to dark grey leuco-gabbro with 5-15% of biotite patches, amphiboles and pyroxenes. Moderately magnetic, massive and varying in ferromagnesian composition. Diffuse lower contact.
239.10	248.00	I3A; MA; GM-GG Gabbro; Massive; Medium- to coarse-grained Medium-grained medium to dark grey leuco-gabbro with 5-15% of biotite patches, amphiboles and pyroxenes. Moderately magnetic, massive and varying in ferromagnesian composition. Diffuse lower contact.
239.10	248.00	AB Albitization Strong albitization but varying in intensity, Low K with XRF analysis. It gives to the rock a orangish color.
248.00	257.35	I3A; GM-GG; MA Gabbro; Medium- to coarse-grained; Massive 60° Medium-grained medium to dark grey leuco-gabbro with 5-15% of biotite patches, amphiboles and pyroxenes. Moderately magnetic, massive and varying in ferromagnesian composition. Diffuse lower contact but globally at 60 CA.
257.35	297.00	I2F; AE; GM; MA Monzonite; Altered; Medium-grained; Massive Light-medium grey to orangish intrusive rock with 10% of medium-grained amphibole/pyroxene. 5% biotite. Possibly a monzonite with strong potassic alteration or a syenite. No reaction to HCl. Not magnetic. EOH.
257.35	297.00	K04 Potassic 4 Strong potassic alteration

Laurentia Exploration Inc.

Assay - Sample						
From	To	Sample number	TREO (sum lanthanide) (%)	CeO2_Calc (%)	La2O3_Calc (%)	Nd2O3_Calc (%)
21.50	23.00	L787657	err	err	err	err
23.00	24.50	L787658	err	err	err	err
24.50	25.50	L787659	err	err	err	err
25.50	27.00	L787660	err	err	err	err
27.00	28.50	L787662	err	err	err	err
35.00	36.50	L787663	err	err	err	err
36.50	38.00	L787664	err	err	err	err
38.00	38.50	L787665	err	err	err	err
38.50	40.00	L787666	0.05	0.024	0.012	0.010
40.00	41.50	L787667	0.04	0.019	0.009	0.008
41.50	43.00	L787668	0.05	0.020	0.009	0.009
43.00	44.05	L787669	0.08	0.033	0.014	0.016
44.05	45.55	L787670	err	err	err	err
58.50	60.00	L787672	err	err	err	err
60.00	61.50	L787673	err	err	err	err
61.50	63.00	L787674	err	err	err	err
63.00	63.65	L787675	err	err	err	err
63.65	65.15	L787676	err	err	err	err
65.15	66.65	L787677	err	err	err	err
91.50	93.00	L787679	err	err	err	err
93.00	94.50	L787680	err	err	err	err
94.50	96.00	L787681	err	err	err	err
106.20	107.70	L787682	err	err	err	err
107.70	108.20	L787683	err	err	err	err
108.20	109.20	L787684	err	err	err	err
109.20	110.20	L787686	err	err	err	err
110.20	111.20	L787687	err	err	err	err
111.20	111.70	L787688	err	err	err	err
111.70	113.20	L787689	err	err	err	err
119.80	121.30	L787690	err	err	err	err
121.30	122.80	L787691	err	err	err	err
122.80	124.30	L787692	err	err	err	err
124.30	125.80	L787693	err	err	err	err
151.00	152.50	L787694	err	err	err	err
152.50	153.00	L787695	err	err	err	err
153.00	154.35	L787696	err	err	err	err

Laurentia Exploration Inc.

Assay - Sample						
From	To	Sample number	TREO (sum lanthanide) (%)	CeO2_Calc (%)	La2O3_Calc (%)	Nd2O3_Calc (%)
154.35	155.90	L787698	err	err	err	err
155.90	157.40	L787699	err	err	err	err
157.40	158.90	L787700	err	err	err	err
158.90	160.10	L787701	err	err	err	err
160.10	161.60	L787702	err	err	err	err
175.50	177.00	L787703	err	err	err	err
177.00	178.50	L787704	err	err	err	err
178.50	180.00	L787705	err	err	err	err
193.00	194.50	L787707	err	err	err	err
194.50	196.00	L787708	err	err	err	err
196.00	197.50	L787709	err	err	err	err
207.50	209.00	L787710	err	err	err	err
209.00	209.60	L787711	err	err	err	err
209.60	211.10	L787712	err	err	err	err
230.20	231.70	L787713	err	err	err	err
231.70	232.50	L787714	err	err	err	err
232.50	233.65	L787715	0.08	0.037	0.017	0.018
233.65	234.65	L787717	0.05	0.022	0.012	0.009
234.65	235.20	L787718	0.05	0.020	0.009	0.009
235.20	236.70	L787719	0.08	0.035	0.016	0.016
236.70	238.10	L787720	0.08	0.035	0.016	0.016
238.10	239.10	L787721	err	err	err	err
239.10	240.60	L787722	err	err	err	err
240.60	242.10	L787723	err	err	err	err
242.10	243.60	L787724	err	err	err	err
243.60	245.00	L787725	err	err	err	err
245.00	246.60	L787726	err	err	err	err
246.60	248.00	L787728	err	err	err	err
248.00	249.50	L787729	err	err	err	err
265.50	267.00	L787730	err	err	err	err
267.00	268.50	L787731	err	err	err	err
268.50	270.00	L787732	err	err	err	err
282.00	283.50	L787733	0.04	0.018	0.009	0.007
283.50	285.00	L787734	0.04	0.020	0.010	0.007
285.00	286.50	L787735	0.04	0.019	0.010	0.007

Survey: CH-25-08

Claims title: 763278

Section:

Contractor: Forage Chibougamau

Township: Clay

Level: Surface

Author: Frédéric Massei, M.Sc.,
P. Geo (1882)

Range:

Work place: Clay Howells

Lot:

Provincial Cell Grid: 42G16A056

Start date: 2025-10-03

Description date: 2025-10-06

End date: 2025-10-05

Collar:

Azimuth: 180.00°
Dip: 45.00°
Length: 288.00 (m)

UTM NAD83 Zone 17

East: 426038.00
North: 5519331.00
Elevation: 212.40 (m)

Down hole survey:

Type	Depth	Azimuth	Dip	Type	Depth	Azimuth	Dip
Collar	0.00	180.00°	45.00°	Gyro_multi	21.00	179.74°	-45.33°
Gyro_multi	3.00	179.86°	-45.46°	Gyro_multi	24.00	179.73°	-45.28°
Gyro_multi	6.00	179.87°	-45.15°	Gyro_multi	27.00	179.74°	-45.33°
Gyro_multi	9.00	179.84°	-45.14°	Gyro_multi	30.00	179.85°	-45.32°
Gyro_multi	12.00	179.71°	-45.33°	Gyro_multi	33.00	179.91°	-45.36°
Gyro_multi	15.00	179.73°	-45.33°	Gyro_multi	36.00	179.92°	-45.32°
Gyro_multi	18.00	179.75°	-45.37°				

Nombre d'échantillons: 93
Nombre d'échantillons QAQC: 10
Longueur totale échantillonnée: 123.65 (m)

Nombre d'échantillons roche totale: 20

Description:

1 round, 18 shell. water from pumpshack near river 800 m to the NE.

Core storage: Jonquière (Québec, Canada) at Laurentia Exploration office

Artesian : No

Casing: Left in place. Cap installed, screwed on tube.



Core size: BTW

Cemented: No

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Down hole survey					
Type	Depth	Azimuth	Invalid...	Dip	Invalid...
Gyro_multi	39.00	179.93°	No	-45.35°	No
Gyro_multi	42.00	179.98°	No	-45.32°	No
Gyro_multi	45.00	180.07°	No	-45.30°	No
Gyro_multi	48.00	180.13°	No	-45.31°	No
Gyro_multi	51.00	180.10°	No	-45.32°	No
Gyro_multi	54.00	180.05°	No	-45.37°	No
Gyro_multi	57.00	180.07°	No	-45.45°	No
Gyro_multi	60.00	180.14°	No	-45.46°	No
Gyro_multi	63.00	179.90°	No	-45.47°	No
Gyro_multi	66.00	180.10°	No	-45.48°	No
Gyro_multi	69.00	180.16°	No	-45.59°	No
Gyro_multi	72.00	180.15°	No	-45.55°	No
Gyro_multi	75.00	180.13°	No	-45.53°	No
Gyro_multi	78.00	180.17°	No	-45.66°	No
Gyro_multi	81.00	180.18°	No	-45.68°	No
Gyro_multi	84.00	180.20°	No	-45.67°	No
Gyro_multi	87.00	180.15°	No	-45.66°	No
Gyro_multi	90.00	180.18°	No	-45.67°	No
Gyro_multi	93.00	180.18°	No	-45.70°	No
Gyro_multi	96.00	180.21°	No	-45.72°	No
Gyro_multi	99.00	180.31°	No	-45.68°	No
Gyro_multi	102.00	180.27°	No	-45.71°	No
Gyro_multi	105.00	180.47°	No	-45.75°	No
Gyro_multi	108.00	180.47°	No	-45.72°	No
Gyro_multi	111.00	180.37°	No	-45.72°	No
Gyro_multi	114.00	180.38°	No	-45.75°	No
Gyro_multi	117.00	180.37°	No	-45.83°	No
Gyro_multi	120.00	180.40°	No	-45.80°	No
Gyro_multi	123.00	180.40°	No	-45.82°	No
Gyro_multi	126.00	180.36°	No	-45.80°	No
Gyro_multi	129.00	180.24°	No	-45.82°	No
Gyro_multi	132.00	180.15°	No	-45.89°	No
Gyro_multi	135.00	180.23°	No	-45.94°	No
Gyro_multi	138.00	180.26°	No	-45.89°	No
Gyro_multi	141.00	180.38°	No	-45.88°	No
Gyro_multi	144.00	180.30°	No	-45.91°	No
Gyro_multi	147.00	180.34°	No	-45.91°	No

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Down hole survey					
Type	Depth	Azimuth	Invalid...	Dip	Invalid...
Gyro_multi	150.00	180.31°	No	-45.92°	No
Gyro_multi	153.00	180.37°	No	-45.91°	No
Gyro_multi	156.00	180.34°	No	-45.89°	No
Gyro_multi	159.00	180.35°	No	-45.89°	No
Gyro_multi	162.00	180.32°	No	-45.86°	No
Gyro_multi	165.00	180.35°	No	-45.85°	No
Gyro_multi	168.00	180.51°	No	-45.85°	No
Gyro_multi	171.00	180.30°	No	-45.84°	No
Gyro_multi	174.00	180.25°	No	-45.84°	No
Gyro_multi	177.00	180.34°	No	-45.86°	No
Gyro_multi	180.00	180.27°	No	-45.82°	No
Gyro_multi	183.00	180.20°	No	-45.78°	No
Gyro_multi	186.00	180.16°	No	-45.73°	No
Gyro_multi	189.00	180.16°	No	-45.72°	No
Gyro_multi	192.00	180.15°	No	-45.66°	No
Gyro_multi	195.00	180.26°	No	-45.67°	No
Gyro_multi	198.00	180.18°	No	-45.66°	No
Gyro_multi	201.00	180.09°	No	-45.61°	No
Gyro_multi	204.00	180.09°	No	-45.54°	No
Gyro_multi	207.00	180.19°	No	-45.51°	No
Gyro_multi	210.00	180.21°	No	-45.44°	No
Gyro_multi	213.00	180.15°	No	-45.37°	No
Gyro_multi	216.00	180.06°	No	-45.29°	No
Gyro_multi	219.00	180.22°	No	-45.29°	No
Gyro_multi	222.00	180.07°	No	-45.13°	No
Gyro_multi	225.00	180.23°	No	-45.15°	No
Gyro_multi	228.00	180.25°	No	-45.09°	No
Gyro_multi	231.00	180.03°	No	-45.01°	No
Gyro_multi	234.00	179.95°	No	-44.92°	No
Gyro_multi	237.00	179.98°	No	-44.86°	No
Gyro_multi	240.00	180.12°	No	-44.81°	No
Gyro_multi	243.00	180.13°	No	-44.77°	No
Gyro_multi	246.00	180.14°	No	-44.74°	No
Gyro_multi	249.00	180.07°	No	-44.78°	No
Gyro_multi	252.00	180.02°	No	-44.64°	No
Gyro_multi	255.00	180.00°	No	-44.64°	No
Gyro_multi	258.00	180.00°	No	-44.58°	No

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Down hole survey

Type	Depth	Azimuth	Invalid...	Dip	Invalid...
Gyro_multi	261.00	180.03°	No	-44.53°	No
Gyro_multi	264.00	180.06°	No	-44.53°	No
Gyro_multi	267.00	179.99°	No	-44.66°	No
Gyro_multi	270.00	179.70°	No	-44.64°	No
Gyro_multi	273.00	179.54°	No	-44.55°	No
Gyro_multi	276.00	179.68°	No	-44.48°	No
Gyro_multi	279.00	179.84°	No	-44.44°	No
Gyro_multi	282.00	179.60°	No	-44.41°	No
Gyro_multi	285.00	179.72°	No	-44.29°	No
Gyro_multi	288.00	179.88°	No	-44.15°	No

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Description		
0.00	14.15	<p>MT</p> <p>Overburden</p> <p>15 m of casing.</p>
14.15	17.75	<p>I2D; GM; MA</p> <p>Syenite; Medium-grained; Massive</p> <p>Massive homogeneous medium-grained grey slightly pinkish syenite. No reaction to HCl. Weakly magnetic. Lower contact at 55 CA.</p>
17.75	29.20	<p>I2D; MA; GG</p> <p>Syenite; Massive; Coarse-grained</p> <p>Coarse grained alkali syenite. Whitish pink with 15-20% of dark ferromagnesian (amphibole and pyroxene). Ferromagnesian-rich decimetric pass in the unit. Possible mixing between mafic and intermediate intrusive rocks. Generally not magnetic, No reaction to HCl. From 18,1 to 18,8 m, the rock is porphyroclastic and contains millimetric white minerals (albite ?), and brown to orangish minerals. At 18,6 m, these orangish minerals returning 1118 ppm La, 560 ppm Ce, 250 ppm Pr and 750 ppm Nd with a XRF. Accessory minerals are apatite and locally fluorite. Progressive lower contact.</p>
18.10	18.80	<p>REE Mineral00.5</p> <p>REE Mineral 0.5%</p> <p>Weak presence of orangish minerals (silicate of Ca-REE ?) returning 1118 ppm La, 560 ppm Ce, 250 ppm Pr and 750 ppm Nd with a XRF.</p>
28.10	28.20	<p>Fir01</p> <p>Fluorite 1%</p> <p>1% of fluorite crystals.</p>
29.20	39.00	<p>I2; HK; GM-GG</p> <p>Intermediate intrusive; Heterogeneous; Medium- to coarse-grained 60°</p> <p>Heteogeneous unit made of syenitic pass and very dark magnesian rich pass. Possible mixing between mafic and intermediate rock. Generally not magnetic. Lower contact sharp at 60 CA.</p>
29.60	29.70	<p>Fir01</p> <p>Fluorite 1%</p> <p>1% of fluorite crystals.</p>
39.00	40.70	<p>I3; MA; GM</p> <p>Mafic intrusive; Massive; Medium-grained 80°</p> <p>Dark green intrusive homogeneous medium-grained moderately magnetic rock. Mafic overall composition. Made of amphibole, pyroxene and feldspar. Lower contact is clean and at 80 CA.</p>
40.70	83.85	<p>I2D; MA; GG</p> <p>Syenite; Massive; Coarse-grained</p> <p>Coarse grained alkali syenite. Whitish pink with 15-20% of dark ferromagnesian (amphibole and pyroxene). Similar to the rock from 17,75 to 39 m but now the rock is weakly to moderately magnetic. Frequent coronic texture with dark amphibole rim around greenish pyroxene. From 53,15 to 54,3, the unit contains more amphibole and pyroxene. From 65,5 to 74,6 m, local carbonatization associated with an brownish alteration of the ferromagnesian minerals that locally becomes absent. Some calcite crystals. Apatite, calcite and magnetite are the main accessory minerals. Diffuse lower contact</p>
45.60	45.65	Vn;3 cm;QZ AB AK;;45°;;

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		Description
65.50	74.60	<p>Veine 3 cm Quartz Albite Ankerite 45° 3 cm thick banded silica-albite-ankerite vein at 45 CA. CB02; HM02</p> <p>Carbonated 2; Hematization 2 Local carbonatization associated with an brownish alteration of the ferromagnesian minerals. In the more carbonatized zone, the rock is lighter colored and the ferromagnesian content decreases, especially from 74,2 to 74,6 where the carbonatization is stonger as well as a potassic/hemetite alteration. This alteration is spreading from fractures.</p>
76.20	76.30	<p>Vn;0.5 cm;CC CL QZ;;45°;;</p> <p>Veine 0.5 cm Calcite Chlorite Quartz 45° 0,5 cm thick banded calcite-chlorite-silica vein at 45 CA. Vn;0.5 cm;QZ CC CL;T;45°;;</p>
76.60	76.65	<p>Veine 0.5 cm Quartz Calcite Chlorite Tension 45° 0,5 cm thick banded calcite-chlorite-silica vein at 45 CA.</p>
83.85	95.30	<p>I2; GM-GG; HG; HK</p> <p>Intermediate intrusive; Medium- to coarse-grained; Heterogranular; Heterogeneous 65° Heterogeneous and heterogranular unit. Mix of darkish amphibole-pyroxene rich syenite, coarse-grained alkali syenite and syenite. The different lithologies are decimetric in length. All amphiboles are dark green to black but some are acicular. Pyroxene are greenish, possibly alkali pyroxene. Magnetism is weak to moderate. Local weak HCl reaction in the coarser pass. Lower contact located whn the rock becomes homogeneous again after a coarse-grained syenitic zone oriented at 65 CA.</p>
84.00	84.60	<p>CC03; HM03</p> <p>Calcite 3; Hematization 3 Calcite alteration associated with alteration of the ferromagnesian minerals that becomes brownish (iron alteration).</p>
84.60	95.30	<p>CC01</p> <p>Calcite 1 Weak local HCl reaction due to calcite grains.</p>
95.30	130.45	<p>I2D; HJ; GM-GG</p> <p>Syenite; Homogeneous; Medium- to coarse-grained 70° Very homogeneous medium to coarse-grained pink-reddish and black syenite. This unit is finer-grained than previous syenitic intervals. Weakly magnetic all along. No reaction to HCl. 20% of amphiboles/pyroxene and minor biotite. Amphibole are frequently around the pyroxenes. Lower contact around 70 CA.</p>
125.65	126.80	<p>I2D; GG; MA</p> <p>Syenite 20°; Coarse-grained; Massive Corase-grained grey-pink alkali syenite intrusion within a syenitic unit. Contact are slightly diffuse but easy to see. upper at 70 CA and lower at 20 CA. First 10 cm with 40% of elongated amphibole/pyroxene. Generally not magnetic.</p>
130.45	132.10	<p>I2D; GF; MA; HJ</p> <p>Syenite; Fine-grained; Massive; Homogeneous Fine to medium-grained grey slightly pinkish syenite intrusion. Very weak magnetism. 10% of amphibole, traces of biotite. Diffuse contacts. Lower around 50 CA.</p>

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Description

132.10	152.90	I2D; HJ; MA; GM Syenite; Homogeneous; Massive; Medium-grained Same rock than from 95,3 to 130,45 m. Medium-grained grey-pink homogeneous syenite with 15-20% amphibole/pyroxene. Moderately magnetic. Fine-grained syenite injection from 142 to 142,3 with weak carbonatization and contacts at 20 CA. From 145,6 to 150 m, local veining and fracturing with silica-calcite filling with potassic alteration. Brecciation is stronger from 147,7 to 147,9 m and from 148,2 to 148,3 m. Diffuse lower contact with a coarse-grained phase.
145.65	150.00	Vnl;3%;CL QZ CC;BR;35°;PY00.1; Veinules 3% Chlorite Quartz Calcite Breccia 35° Pyrite 0.1% Interval with 3% of white-grey-black fracture filling and veinlets made of silica, calcite, chlorite and albite. Local presence of euhedral pyrite.
147.70	147.90	BR04 Brecciated4 Strong brecciation with precipitation of grey silica fluid with albitem calcite and pyrite.
148.20	148.30	FA Fractured Fracturation with silica-calcite filling and potassic alteration.
152.90	159.50	I2D; GG; HJ; MA Syenite; Coarse-grained; Homogeneous; Massive coarse-grained pinkish grey alkali syenite with 15% amphibole/pyroxene with locally a greenish-brown core and a dark rim. Locally magnetic where millimetric magnetite grains are present. Contacts are transitionnal.
159.50	167.70	I2D; MA; HJ; GM Syenite; Massive; Homogeneous; Medium-grained 30° Greyish slightly pink medium-grained syenite. Moderately magnetic until 164 m and then the magnetism progressively disappear when the rock becomes clearer. The size of the crystals increases and decreases progressively forming a very coarse phase from 164,5 to 165,4 m. Sharp lower contact at 30 CA.
159.50	168.00	I2D; MA; GO Syenite; Massive; Very coarse-grained The size of the crystals increases and decreases progressively forming a very corase phase from 164,5 to 165,4 m. The rock is mainly made of K-feldspar and very angular amphiboles.
167.70	169.90	I2D; MA; GF Syenite; Massive; Fine-grained Fine-grained grey massive syenite. Moderately magnetic and non-reactive to HCl. It appears locally as an intrusion breccia with medium-grained pinkish syenite brecciating this fine-grained grey syenite. Sharp lower contact at 30 CA.
169.90	189.20	I2D; GM; MA; HJ Syenite; Medium-grained; Massive; Homogeneous Medium-grained greyish locally grey-pinkish syenite. The rock is massive, homogeneous, weakly magnetic and non-reactive to HCl. 15% of ferromagnesian minerals, frequently brown-greenish in the center with a dark rim. From 181 to 182,15 m, three 10-30 cm thick coarse granitic intrusions. Transitionnal lower contact.

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Description

181.00	182.50	I1B; HJ; GG Granite; Homogeneous; Coarse-grained 40° Three 10-30 cm thick beige granitic intrusions in the interval. Quartz is anhedral. 10% ferromagnesian minerals. Contacts between 40 and 60 CA.
189.20	190.85	I2D; GG; MA Syenite; Coarse-grained; Massive Massive coarse-grained pink-reddish and black syenite. Weak ponctual HCl reaction. Not magnetic. 20% of coarse amphibole and 7% of millimetric white-beige minerals, more often in the center of amphiboles. Transitionnal contacts. This unit is a coarser phase of the previous and next unit.
189.20	190.85	CC02; K03 Calcite 2; Potassic 3 Weak HCl reaction due to calcite crystals. Moderate potassic alteration.
190.85	198.70	I2D; MA; PO Syenite; Massive; Porphyritic Medium-grained massive and homogeneous grey to slightly pinkish syenite. Weakly to moderately magnetic. No HCl reaction. Similar to the unit from 169,9 to 189,2 m but with 3% of feldspar centimetric phenocrysts and also more labradorescence from disseminated medium-size feldspar. Lower contact is transitionnal.
192.50	202.20	K01 Potassic 1 Weak potassic alteration.
198.70	202.20	I2D; GG; MA Syenite; Coarse-grained; Massive Massive coarse-grained pink-reddish and black syenite. Weak ponctual HCl reaction. 20% of coarse amphibole. This unit is a coarser syenitic phase. Traces of purple minerals around 199 m which are not fluorite. The dark amphibole rim is around pyroxene and also around magnetite grains. Rock moderately magnetic. Weak potassic alteration. Transitionnal contacts.
202.20	211.80	I2D; MA; GM; PO Syenite; Massive; Medium-grained; Porphyritic Medium-grained massive and homogeneous grey to slightly pinkish syenite. Weakly to moderately magnetic. No HCl reaction. Similar to the unit from 190,85 to 198,7 m. 3% of feldspar centimetric phenocrysts. Pretty rare iridescence of feldspar. From 202,5 to 202,6, intrusion of a very coarse-grained alkali syenite at 40 CA. Lower contact is transitionnal.
211.80	213.55	I2D; GG; HJ; MA; GO Syenite; Coarse-grained; Homogeneous; Massive; Very coarse-grained Massive coarse-grained pink-reddish and black syenite. Weak ponctual HCl reaction. Not magnetic. 15-20% of coarse amphibole. This unit is a coarser syenitic phase. Weak potassic alteration. Diffuse contacts, locally subparallel to the core.
213.55	219.10	I2D; MA; PO; HJ; GM Syenite; Massive; Porphyritic; Homogeneous; Medium-grained Medium-grained massive and homogeneous grey to slightly pinkish syenite. Weakly to moderately magnetic. No HCl reaction. Similar to the unit from 202,2 to 211,8 m. 3% of feldspar centimetric phenocrysts. Pretty rare iridescence of feldspar. Lower contact is transitionnal.

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Description

219.10	229.60	I2D; GM; GG; GO; MA Syenite; Medium-grained; Coarse-grained; Very coarse-grained; Massive Heterogranular and heterogeneous unit made of decimetric syenitic to quartz syenite facies. Facies are : medium-grained homogeneous magnetic grey-reddish porphyritic syenite, 2) coarse to very-coarse grained syenite, 3) coarse-grained syenite with anhedral quartz and calcite and 4) coarse amphibolite. From 222,3 to 222,85 m, a zone of quartz-calcite-chlorite veining with strong potassic alteration. Lower contact is transitionnal.
222.30	222.85	CB01; K04 Carbonated 1; Potassic 4 Strong potassic alteration and weak carbonatization.
222.30	222.85	VnIs;8%;CC CL QZ;BR;35°;; Veinules 8% Calcite Chlorite Quartz Breccia 35° Zone of quartz-calcite-chlorite veining.
229.60	237.80	I2D; GM; HJ; MA Syenite; Medium-grained; Homogeneous; Massive Grey medium-grained massive homogeneous weakly to moderately magnetic and non-reactive to HCl syenite. 1% of coarse-grained syenitic veins. 15% of amphibole/pyroxene. Transitionnal lower contact.
237.80	243.00	I2D; MA; GO Syenite; Massive; Very coarse-grained Interval dominated by coarse to very coarse-grained syenite alternating with medium to coarse-grained syenite. Generally not magnetic. Weak potassic alteration. Contacts within the unit and with the lower unit are transitionnal.
243.00	288.00	I2D; HG; HK; MA Syenite; Heterogranular; Heterogeneous; Massive Syenitic unit made of a mix of greyish fine to medium-grained syenite and pinkish medium to coarse-grained syenite. Both are magnetic and contacts are irregular and transitionnal. 12% of greenish-light brown pyroxene and 51% of dark amphiboles. Minor biotite and magnetite. From 253,7 to 254,35 m, 5-8 cm thick very coarse syenitic vein. EOH.
243.00	288.00	K01 Potassic 1 Weak potassic alteration.
245.75	245.90	SC03 Schistose3 70° Moderate schistosity. The rock is medium-grey.

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Assay - Sample						
From	To	Sample number	TREO (sum lanthanide) (%)	CeO2_Calc (%)	La2O3_Calc (%)	Nd2O3_Calc (%)
16.25	17.75	L787737	0.08	0.039	0.021	0.014
17.75	18.25	L787738	0.21	0.098	0.059	0.027
18.25	18.80	L787739	0.30	0.133	0.074	0.039
18.80	20.30	L787740	0.27	0.125	0.065	0.046
23.50	25.00	L787741	0.21	0.096	0.047	0.038
25.00	26.50	L787742	0.21	0.096	0.050	0.035
26.50	28.00	L787743	0.21	0.097	0.046	0.039
28.00	29.50	L787744	0.24	0.111	0.055	0.044
29.50	31.00	L787745	0.15	0.067	0.032	0.028
31.00	32.50	L787746	0.14	0.062	0.030	0.025
32.50	34.00	L787748	err	err	err	err
34.00	35.50	L787749	err	err	err	err
35.50	37.00	L787750	err	err	err	err
37.00	38.00	L787751	err	err	err	err
38.00	39.00	L787752	err	err	err	err
39.00	40.50	L787753	err	err	err	err
44.00	45.50	L787754	err	err	err	err
45.50	46.00	L787755	err	err	err	err
46.00	47.50	L787757	err	err	err	err
64.00	65.50	L787758	err	err	err	err
65.50	67.00	L787759	err	err	err	err
67.00	68.50	L787760	err	err	err	err
68.50	70.00	L787761	err	err	err	err
70.00	71.50	L787762	err	err	err	err
71.50	73.00	L787763	err	err	err	err
73.00	74.20	L787764	err	err	err	err
74.20	74.70	L787765	err	err	err	err
74.70	76.20	L787766	err	err	err	err
76.20	77.70	L787768	err	err	err	err
82.50	84.00	L787769	err	err	err	err
84.00	84.60	L787770	err	err	err	err
84.60	86.10	L787771	err	err	err	err
86.10	87.60	L787772	err	err	err	err
87.60	89.10	L787773	err	err	err	err
89.10	90.60	L787774	err	err	err	err
90.60	92.10	L787776	err	err	err	err

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Assay - Sample						
From	To	Sample number	TREO (sum lanthanide) (%)	CeO2_Calc (%)	La2O3_Calc (%)	Nd2O3_Calc (%)
92.10	93.60	L787777	err	err	err	err
93.60	94.20	L787778	err	err	err	err
94.20	95.30	L787779	err	err	err	err
95.30	96.80	L787780	err	err	err	err
108.00	109.50	L787781	err	err	err	err
109.50	111.00	L787782	err	err	err	err
111.00	112.50	L787783	err	err	err	err
128.45	128.95	L787784	err	err	err	err
128.95	130.45	L787785	err	err	err	err
130.45	131.95	L787786	err	err	err	err
145.50	146.00	L787787	err	err	err	err
146.00	147.50	L787789	err	err	err	err
147.50	148.00	L787790	err	err	err	err
148.00	149.00	L787791	err	err	err	err
149.00	150.50	L787792	err	err	err	err
154.00	155.00	L787793	err	err	err	err
155.00	156.50	L787794	err	err	err	err
156.50	158.00	L787795	err	err	err	err
158.00	159.50	L787796	err	err	err	err
159.50	161.00	L787798	err	err	err	err
179.50	181.00	L787799	err	err	err	err
181.00	182.50	L787800	err	err	err	err
182.50	184.00	L787801	err	err	err	err
195.80	197.30	L787803	err	err	err	err
197.30	198.80	L787804	err	err	err	err
198.80	200.30	L787805	err	err	err	err
200.30	201.30	L787806	err	err	err	err
201.30	202.20	L787807	err	err	err	err
202.20	203.70	L787808	err	err	err	err
217.60	219.10	L787809	err	err	err	err
219.10	220.60	L787810	err	err	err	err
220.60	222.10	L787811	err	err	err	err
222.10	222.90	L787812	err	err	err	err
222.90	223.60	L787813	err	err	err	err
223.60	225.10	L787814	err	err	err	err
225.10	226.60	L787815	err	err	err	err

Laurentia Exploration Inc.

Assay - Sample						
From	To	Sample number	TREO (sum lanthanide) (%)	CeO2_Calc (%)	La2O3_Calc (%)	Nd2O3_Calc (%)
226.60	228.10	L787816	err	err	err	err
228.10	229.60	L787817	err	err	err	err
229.60	231.10	L787818	err	err	err	err
231.10	231.60	L787819	err	err	err	err
236.30	237.80	L787821	err	err	err	err
237.80	239.30	L787822	err	err	err	err
239.30	240.80	L787823	err	err	err	err
240.80	242.30	L787825	err	err	err	err
242.30	243.00	L787826	err	err	err	err
243.00	244.50	L787827	err	err	err	err
244.50	246.00	L787828	err	err	err	err
246.00	247.50	L787829	err	err	err	err
247.50	249.00	L787830	err	err	err	err
249.00	250.50	L787831	err	err	err	err
250.50	252.00	L787832	err	err	err	err
252.00	253.50	L787833	err	err	err	err
253.50	255.00	L787834	err	err	err	err
255.00	256.50	L787835	err	err	err	err
276.00	277.50	L787837	err	err	err	err
277.50	279.00	L787838	err	err	err	err
279.00	280.50	L787839	err	err	err	err

List of Abbreviations

Al : Aluminum

CA : Core Angle

Cps : Count per second

Ce : Cerium

Cm : Centimeter

Fe : Iron

HCL : Hydrochloric acid

K : Potassium

K-feldspar : Potassic feldspars

La : Lanthanum

M : Meter

Nd : Neodymium

P2O5 : Phosphorus Oxide

Pr : Praseodymium

REE : Rare Earth Elements

Si : Silicium

Tca : To core angle

Th : Thorium

Ti : Titanium

TREE : Total Rare Earth Elements

% : Percent

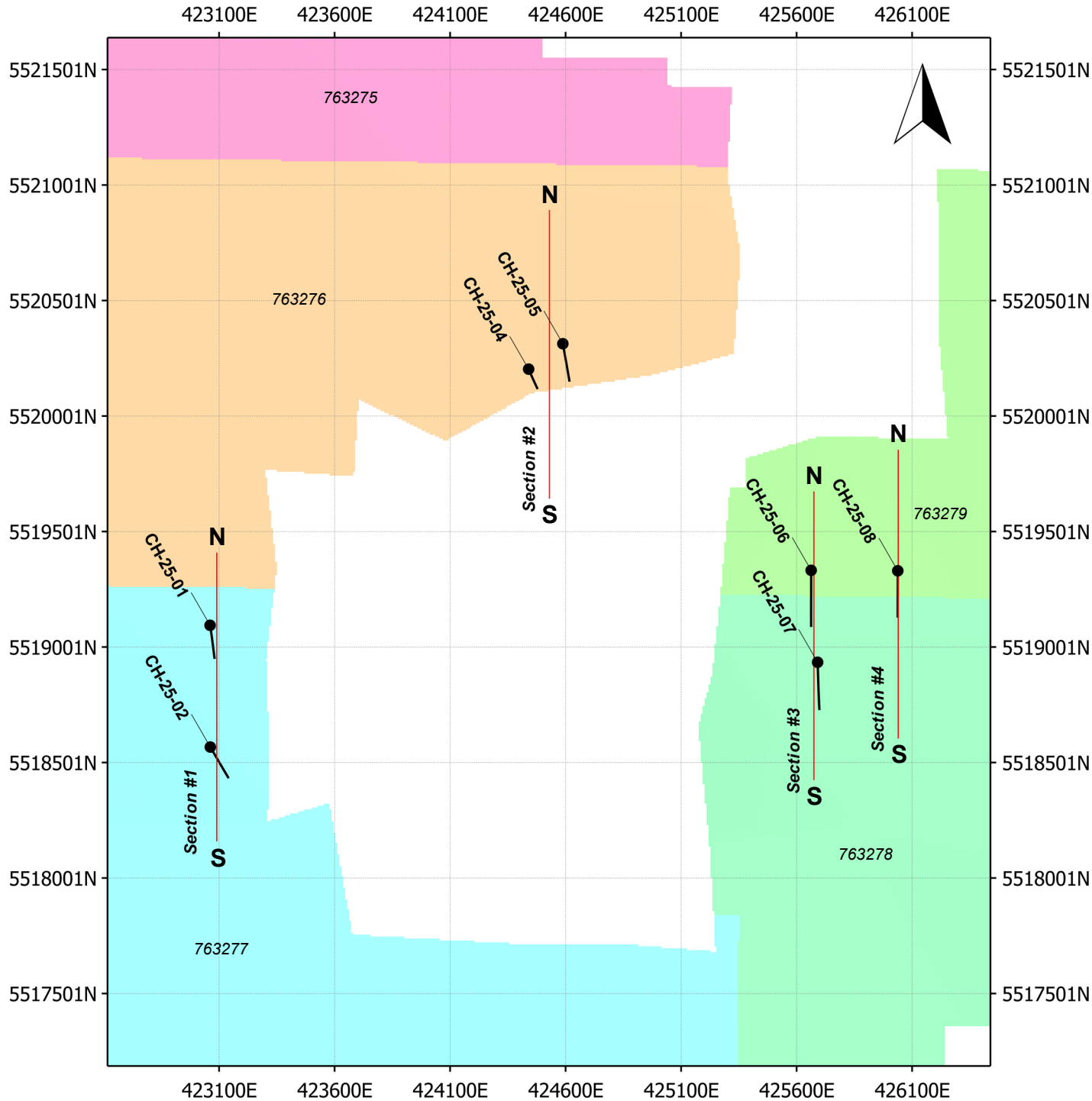
Ca : Calcium

XRF : X-Ray Fluorescence

Appendix III

Drill holes sections

Clay-Howells Property - 2025 Drilling Campaign - Plan view



Legend :

Drillholes :

- Collars
- Traces

Sections :

- Traces

Claims :

- MCMC-763275
- MCMC-763276
- MCMC-763277
- MCMC-763278
- MCMC-763279

Scale: 1:25,000

Location

0m 500m



422617, 5521639

426439, 5521639

Prepared by : G.Vernoux (P.Geo.)

Date : November 2025

Coordinates system : UTM NAD83 - Z17

ARGYLE
RESOURCES

LAURENTIA

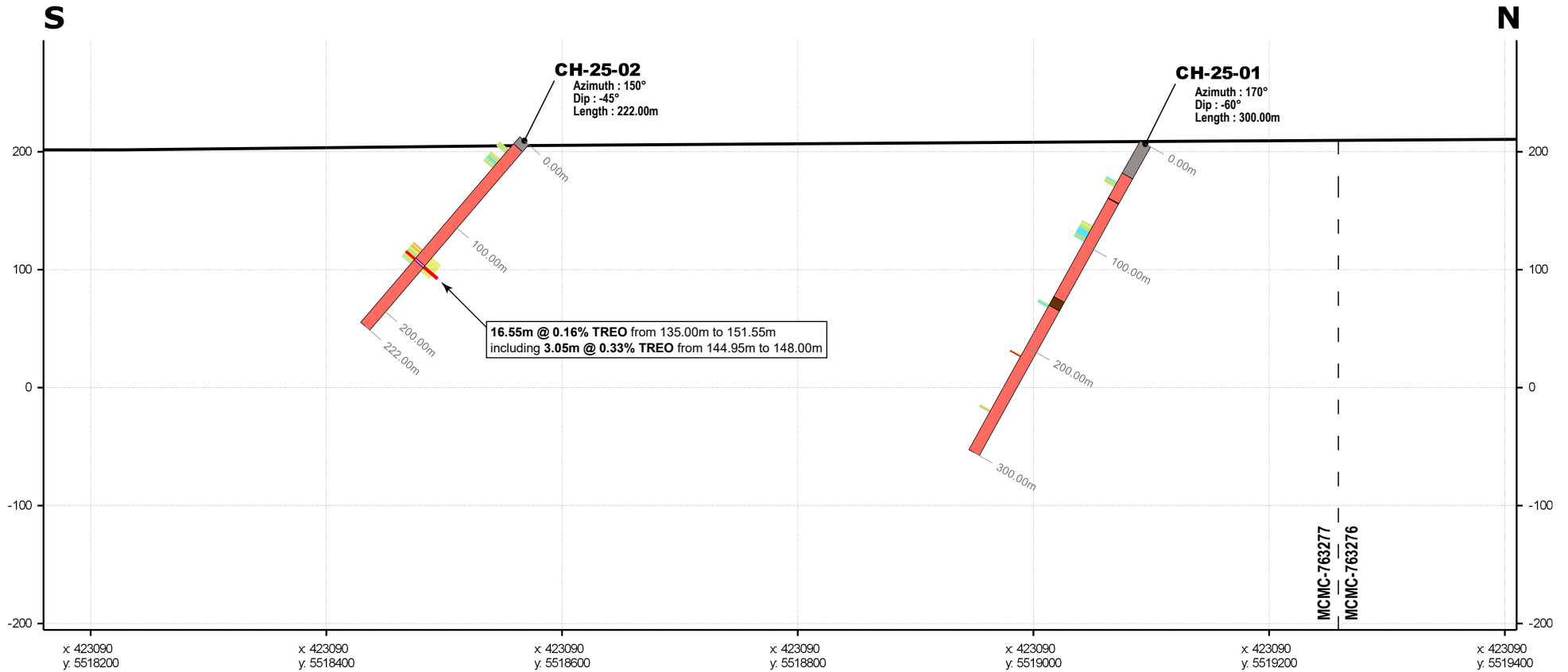


EXPLORATION

Clay-Howells Property, 2025 Drilling Campaign

Section #1

Permit: PR-25-000130



Lithologies

- Breccia Zone
- Carbonatite
- Fenite
- Gabbro
- Intermediate Intrusive
- Mafic Intrusive
- Monzodiorite
- Monzonite
- Overburden
- Syenite

Legend :

TREO Results (%)

- (sum of lanthanides)
- < 0.05
 - < 0.1
 - < 0.17
 - < 0.25
 - < 0.5
 - ≥ 0.5

- Topography
- Claims Border

ARGYLE
RESOURCES

LAURENTIA

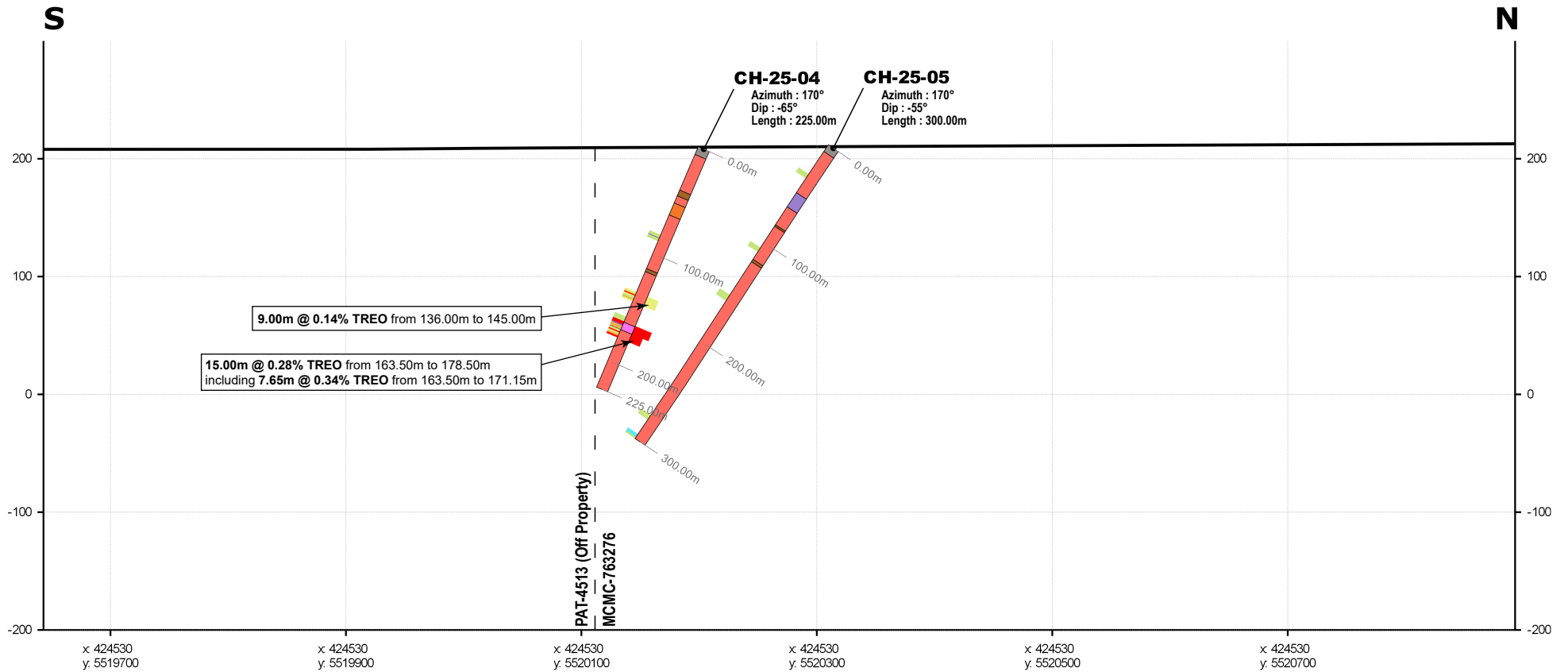



EXPLORATION

Clay-Howells Property, 2025 Drilling Campaign

Section #2

Permit: PR-25-000130

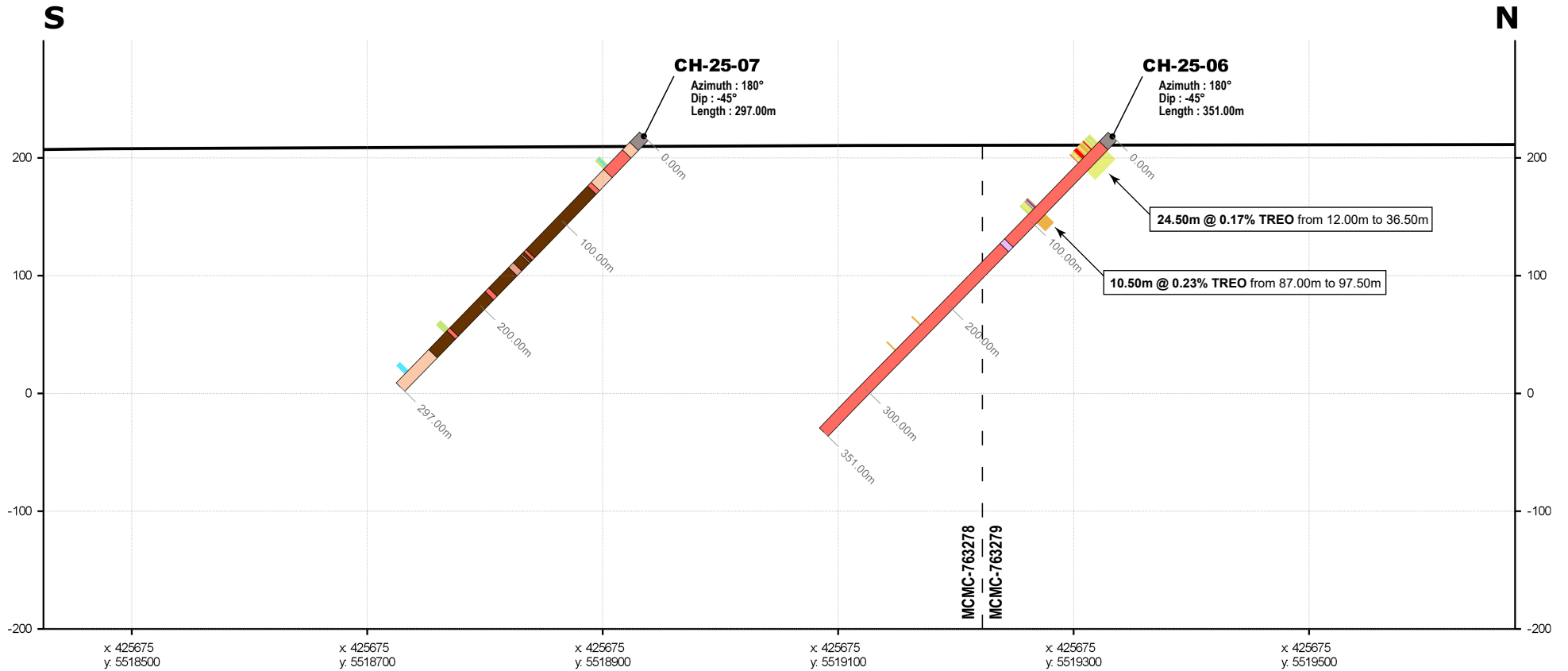


<p>Lithologies</p> <ul style="list-style-type: none"> Breccia Zone Carbonatite Fenite Gabbro Intermediate Intrusive Mafic Intrusive Monzodiorite Monzonite Overburden Syenite 	<p>Legend :</p> <p>TREO Results (%) (sum of lanthanides)</p> <ul style="list-style-type: none"> < 0.05 < 0.1 < 0.17 < 0.25 < 0.5 ≥ 0.5 <p>— Topography - - Claims Border</p>	<p>Scale: 1:5,100</p> <p>0m 200m</p>	<p>ARGYLE RESOURCES</p> <p>LAURENTIA</p> <p></p> <p>EXPLORATION</p>
<p>Prepared by : G.Vernoux (P.Geo.) Date : November 2025 Coordinates system : UTM NAD83 - Z17</p>		<p>Location [90° Dip Section] Looking West</p> <p>S: 424530, 5519643, 300 N: 424530, 5520893, 300</p>	

Clay-Howells Property, 2025 Drilling Campaign

Section #3

Permit: PR-25-000130



Legend :

Lithologies

- Breccia Zone
- Carbonatite
- Fenite
- Gabbro
- Intermediate Intrusive
- Mafic Intrusive
- Monzodiorite
- Monzonite
- Overburden
- Syenite

TREO Results (%) (sum of lanthanides)

- < 0.05
- < 0.1
- < 0.17
- < 0.25
- < 0.5
- ≥ 0.5

- Topography
- Claims Border

Scale: 1:5,100



Prepared by : G.Vernoux (P.Geo.)
Date : November 2025
Coordinates system : UTM NAD83 - Z17

Location
[90° Dip Section]
Looking West

S: 425675, 5518425, 300
N: 425675, 5519675, 300

ARGYLE
RESOURCES

LAURENTIA

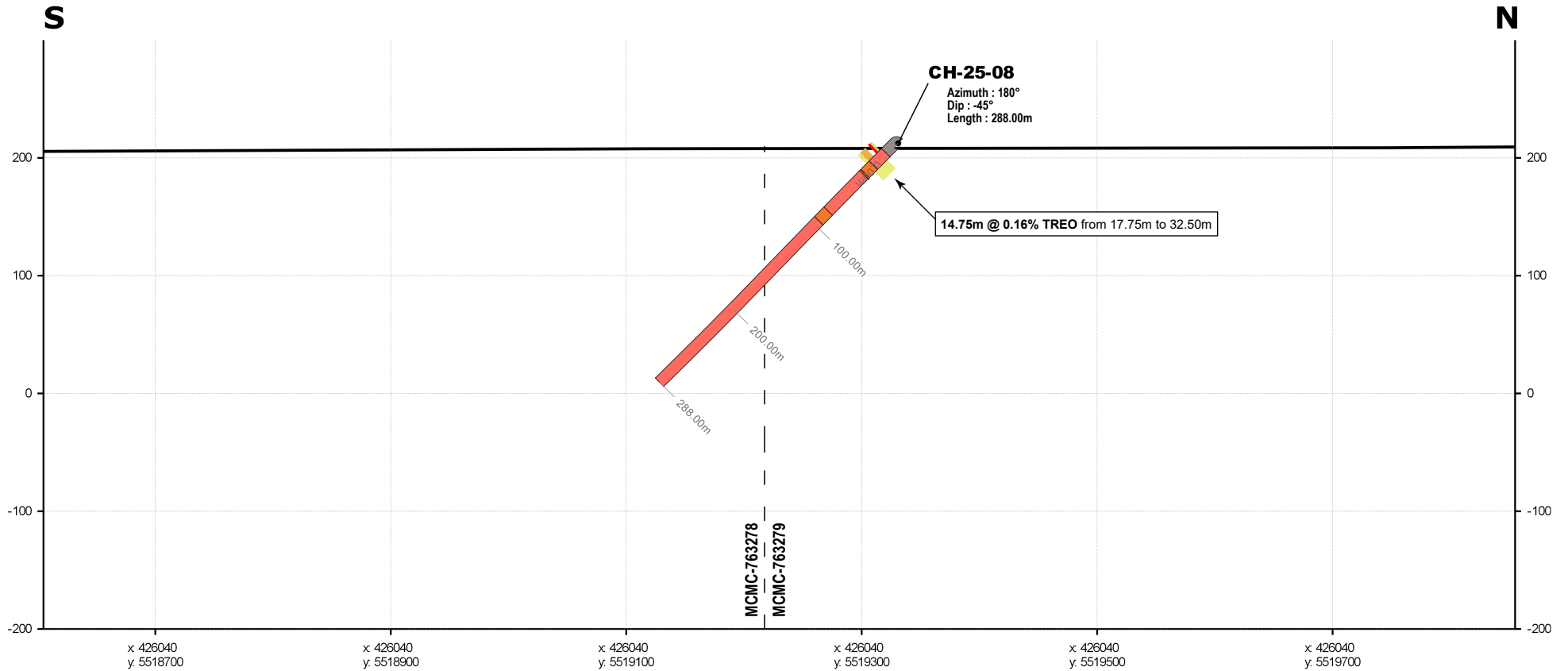



EXPLORATION

Clay-Howells Property, 2025 Drilling Campaign

Section #4

Permit: PR-25-000130



<p>Lithologies</p> <ul style="list-style-type: none"> Breccia Zone Carbonatite Fenite Gabbro Intermediate Intrusive Mafic Intrusive Monzodiorite Monzonite Overburden Syenite 	<p>Legend :</p> <p>TREO Results (%) (sum of lanthanides)</p> <ul style="list-style-type: none"> < 0.05 < 0.1 < 0.17 < 0.25 < 0.5 ≥ 0.5 <p>— Topography - - Claims Border</p>	<p>Scale: 1:5,100</p> <p>0m 200m</p> <p>Prepared by : G.Vernoux (P.Geo.) Date : November 2025 Coordinates system : UTM NAD83 - Z17</p> <p>Location [90° Dip Section] Looking West</p> <p>S: 426040, 5518605, 300 N: 426040, 5519855, 300</p>	<p>ARGYLE RESOURCES</p> <p>LAURENTIA</p>  <p>EXPLORATION</p>
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Appendix IV

Certificate of analysis



Report No.: A25-15089
 Report Date: 05-Nov-25
 Date Submitted: 22-Oct-25
 Your Reference: Clay-Howells

Laurentia Exploration
 3434 rue des generateurs
 Sanguenay Quebec G7X0M1
 Canada

ATTN: Jean-Philippe Arguin

CERTIFICATE OF ANALYSIS

180 Core samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
8-REE Assay Package	QOP WRA/ QOP WRA 4B2 (Major/Trace Elements Fusion ICPOES/ICPMS)	2025-10-27 17:15:06

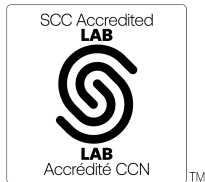
REPORT **A25-15089**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Total includes all elements in % oxide to the left of total. If samples contain >0.3% P2O5, results for Nb, Ta and Zr by lithium metaborate/tetraborate fusion / ICP-MS may be biased low; therefore, we recommend reanalysis for Nb2O5, ZrO2 and Ta2O5 by lithium metaborate/tetraborate fusion / XRF.

Refer to the Scope of Accreditation for information on accredited elements.



CERTIFIED BY:

Elitsa Hrischeva, Ph.D.
 Quality Control Coordinator

ACTIVATION LABORATORIES LTD.
 41 Bittern Street, Ancaster, Ontario, Canada, L9G 4V5
 TELEPHONE +905 648-9611 or +1.888.228.5227 FAX +1.905.648.9613
 E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories

Report: A25-15089

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.005	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	GRAV	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
L787013	57.74	15.89	7.26	0.240	0.77	3.87	5.05	6.02	0.953	0.37	1.59	99.76	13	2	7	< 20	3	< 20	10	90	25	1	< 5
L787014	57.85	17.52	5.52	0.277	0.91	3.59	4.93	6.56	0.239	0.42	2.45	100.3	2	8	< 5	< 20	2	< 20	< 10	80	30	1	< 5
L787015	56.10	16.20	6.95	0.379	1.02	4.40	4.66	6.03	0.794	0.19	2.45	99.17	3	10	7	< 20	3	< 20	< 10	140	29	1	< 5
L787016	59.91	16.79	5.02	0.205	0.71	2.79	5.15	6.83	0.420	0.09	2.56	100.5	2	7	5	< 20	2	< 20	10	90	27	1	< 5
L787050	97.09	0.21	0.54	0.012	0.03	0.58	< 0.01	0.05	0.024	< 0.01	0.54	99.08	< 1	< 1	< 5	< 20	< 1	< 20	20	< 30	< 1	< 1	< 5
L787051	54.51	15.18	8.29	0.208	1.62	3.99	4.29	6.02	1.389	0.51	2.75	98.75	18	2	7	< 20	3	< 20	20	80	20	1	< 5
L787052	57.71	16.00	9.24	0.229	0.86	2.93	5.12	6.08	1.190	0.29	0.86	100.5	14	3	8	< 20	3	< 20	10	140	26	1	< 5
L787053	58.02	16.61	8.30	0.228	0.90	2.97	5.08	6.11	1.127	0.30	0.78	100.4	15	3	7	< 20	3	< 20	20	130	24	1	< 5
L787054	57.29	16.45	8.44	0.217	0.95	3.16	5.03	6.01	1.158	0.44	0.79	99.94	17	2	7	< 20	3	< 20	10	90	22	1	< 5
L787055	55.38	15.93	8.25	0.184	1.06	3.21	4.59	6.12	1.506	0.40	1.63	98.25	19	3	10	< 20	4	< 20	10	70	21	1	< 5
L787056	59.82	18.47	3.87	0.095	0.72	3.28	5.49	5.70	0.625	0.18	1.98	100.2	11	2	8	< 20	3	< 20	< 10	40	21	1	< 5
L787057	59.21	18.15	3.68	0.074	0.45	2.68	5.66	5.87	0.531	0.12	1.47	97.89	9	2	6	< 20	1	< 20	< 10	30	23	1	< 5
L787058	57.69	17.92	3.96	0.093	0.79	2.89	5.76	5.53	0.595	0.16	2.52	97.90	8	3	8	< 20	2	< 20	< 10	40	24	1	< 5
L787059	58.06	17.39	5.15	0.091	0.67	2.16	6.18	5.39	0.526	0.06	2.06	97.74	2	4	7	< 20	4	< 20	10	80	30	1	< 5
L787060	61.53	17.26	4.40	0.091	0.20	1.73	6.25	5.84	0.306	0.04	1.13	98.76	< 1	4	< 5	< 20	1	< 20	< 10	80	33	1	< 5
L787061	50.82	12.80	27.22	0.049	1.18	1.01	0.18	1.50	2.000	0.47	3.25	100.5	30	3	263	370	10	60	40	110	27	2	55
L787062	58.02	17.81	6.11	0.119	0.41	2.92	6.13	4.45	0.717	0.18	0.86	97.75	8	3	11	< 20	2	< 20	< 10	90	25	1	< 5
L787063	51.62	13.11	14.84	0.341	2.34	7.15	4.40	3.28	2.181	0.79	0.71	100.8	28	3	141	< 20	16	< 20	20	150	23	2	< 5
L787064	57.36	17.94	6.18	0.128	0.83	4.30	5.78	4.53	0.950	0.39	1.61	99.99	12	2	31	< 20	6	< 20	< 10	60	22	1	< 5
L787081	50.26	15.38	12.44	0.256	4.04	8.03	4.86	2.00	1.842	0.47	1.20	100.8	26	3	214	40	29	20	40	150	22	1	< 5
L787082	58.72	17.69	6.09	0.204	0.46	3.31	6.32	4.82	0.652	0.12	1.56	99.94	6	5	16	< 20	3	< 20	< 10	110	26	1	< 5
L787083	58.89	17.62	5.60	0.191	0.42	3.09	5.94	5.29	0.499	0.13	0.80	98.48	8	3	6	< 20	2	< 20	< 10	90	25	1	< 5
L787092	59.45	17.36	5.59	0.204	0.44	2.69	6.48	4.89	0.494	0.17	1.09	98.86	7	4	6	< 20	2	< 20	< 10	130	25	1	< 5
L787093	56.77	12.05	10.83	0.648	0.84	8.13	4.98	3.98	0.572	0.94	0.34	100.1	8	9	9	< 20	4	< 20	< 10	210	20	2	< 5
L787108	51.34	15.53	12.29	0.334	2.44	6.90	4.90	2.62	1.920	0.95	0.17	99.41	20	2	87	< 20	17	< 20	20	240	21	1	< 5
L787109	51.55	15.31	10.59	0.313	1.96	8.54	5.06	2.87	1.582	0.87	1.48	100.1	16	7	73	< 20	13	< 20	20	190	22	1	< 5
L787110	53.26	15.66	11.16	0.268	2.29	6.53	4.95	3.10	2.043	0.89	0.29	100.4	19	2	88	< 20	16	< 20	20	200	22	1	< 5
L787128	97.48	0.21	0.44	0.010	0.03	0.46	< 0.01	0.04	0.025	< 0.01	0.35	99.05	< 1	< 1	< 5	< 20	< 1	< 20	< 10	< 30	< 1	< 1	< 5
L787129	61.28	16.13	5.60	0.186	0.31	2.77	5.46	5.62	0.480	0.17	0.40	98.41	9	6	< 5	< 20	1	< 20	10	100	25	2	< 5
L787130	59.92	16.72	5.60	0.172	0.32	2.75	5.67	5.73	0.515	0.12	0.59	98.12	9	3	< 5	< 20	1	< 20	< 10	90	23	1	< 5
L787131	61.99	15.70	4.89	0.172	0.25	3.04	5.39	5.36	0.394	0.12	0.66	97.95	7	6	5	< 20	1	< 20	< 10	80	23	1	< 5
L787132	61.26	16.88	5.60	0.177	0.34	2.88	5.64	5.69	0.481	0.14	0.63	99.70	9	3	< 5	< 20	1	< 20	10	90	24	1	< 5
L787133	65.53	15.45	4.77	0.153	0.25	2.31	5.26	5.56	0.368	0.10	0.59	100.3	6	5	< 5	< 20	2	< 20	< 10	80	23	1	< 5
L787134	60.90	16.51	5.78	0.180	0.34	2.75	5.41	5.65	0.505	0.13	0.73	98.88	10	3	< 5	< 20	1	< 20	< 10	90	23	1	< 5
L787135	59.20	12.69	10.17	0.460	0.40	6.37	4.05	5.28	0.237	0.23	0.42	99.51	6	16	< 5	< 20	2	< 20	< 10	160	26	2	< 5
L787136	60.18	16.53	5.97	0.187	0.38	3.09	5.52	5.66	0.541	0.15	0.81	99.00	10	3	5	< 20	3	< 20	10	100	22	1	< 5
L787137	59.82	16.87	5.91	0.174	0.34	2.70	5.59	5.71	0.520	0.14	0.79	98.58	10	3	6	< 20	1	< 20	< 10	90	23	1	< 5
L787138	60.39	16.49	6.23	0.186	0.36	2.61	5.47	5.67	0.538	0.11	0.71	98.76	10	3	< 5	< 20	2	< 20	10	100	23	1	< 5
L787139	60.68	16.40	6.48	0.206	0.36	2.91	5.52	5.68	0.569	0.13	0.55	99.49	11	3	< 5	< 20	1	< 20	10	100	24	1	< 5
L787140	60.80	17.03	5.25	0.165	0.29	2.36	5.74	5.72	0.444	0.09	0.74	98.62	9	3	< 5	< 20	1	< 20	< 10	90	25	1	< 5
L787141	51.16	12.65	27.25	0.048	1.19	1.02	0.18	1.50	2.023	0.48	3.11	100.6	31	3	260	350	9	60	40	120	24	2	58
L787142	62.42	16.84	4.34	0.186	0.20	2.74	6.09	5.74	0.285	0.10	0.80	99.74	5	7	< 5	< 20	1	< 20	< 10	90	29	1	< 5
L787143	60.32	16.90	5.72	0.172	0.23	2.29	6.26	5.42	0.333	0.33	1.09	99.07	5	11	< 5	< 20	1	< 20	< 10	150	33	1	< 5
L787144	59.09	17.04	6.85	0.212	0.31	2.56	6.00	5.22	0.462	0.11	0.80	98.65	7	8	< 5	< 20	1	< 20	10	140	25	1	< 5
L787145	62.18	16.43	5.93	0.181	0.34	2.58	5.85	5.81	0.510	0.12	0.46	100.4	10	4	< 5	< 20	2	< 20	10	100	25	1	< 5
L787146	60.38	16.28	5.82	0.180	0.31	2.49	5.69	5.66	0.488	0.11	0.45	97.86	10	3	< 5	< 20	2	< 20	10	110	25	1	< 5
L787193	52.10	9.34	14.80	0.563	0.99	13.42	3.20	3.46	0.288	2.80	-0.36	100.6	3	3	16	< 20	5	< 20	10	210	20	2	< 5
L787194	55.08	9.42	14.67	0.622	1.01	11.89	3.56	3.34	0.260	0.95	-0.31	100.5	3	5	16	< 20	5	< 20	< 10	240	19	2	< 5
L787195	55.15	11.30	11.56	0.493	0.87	10.12	3.98	4.04	0.240	1.37	-0.06	99.04	2	3	14	< 20	4	< 20	20	230	21	2	< 5

Results

Activation Laboratories

Report: A25-15089

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.005	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	GRAV	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
L787196	54.40	12.28	10.53	0.567	0.93	10.64	4.42	3.62	0.272	0.66	1.04	99.36	6	7	17	<20	6	<20	20	220	24	2	<5
L787197	54.14	11.61	11.10	0.479	2.17	10.74	4.44	3.20	0.413	1.30	0.92	100.5	14	5	69	180	16	50	50	210	25	1	<5
L787198	61.59	15.13	6.30	0.265	0.34	3.35	6.01	5.77	0.401	0.09	1.28	100.5	10	5	<5	<20	2	<20	10	110	26	1	<5
L787199	60.20	15.84	6.24	0.254	0.27	2.53	6.03	5.41	0.393	0.09	0.73	97.98	9	6	<5	<20	2	<20	20	130	29	1	<5
L787200	27.60	10.87	50.55	0.170	1.71	1.82	0.24	0.12	3.188	1.49	1.58	99.35	73	6	388	600	15	80	80	420	35	3	45
L787201	59.96	14.75	7.20	0.379	0.45	4.97	5.50	5.16	0.422	0.18	0.33	99.31	10	6	11	<20	3	<20	10	160	26	1	<5
L787202	6.73	0.80	9.16	1.349	0.66	44.43	0.20	0.13	0.033	1.71	31.68	96.89	2	2	7	<20	3	<20	<10	170	8	<1	<5
L787203	4.63	0.29	9.42	1.207	0.59	47.57	0.13	0.06	0.017	1.34	34.73	99.98	2	1	<5	<20	3	<20	<10	160	8	<1	<5
L787204	10.40	1.69	8.35	0.767	0.49	42.89	0.60	0.67	0.054	1.41	30.60	97.92	1	3	7	<20	2	<20	20	100	12	<1	<5
L787205	39.86	8.84	6.77	0.551	0.82	22.87	2.93	3.76	0.145	0.87	13.19	100.6	3	7	7	<20	2	<20	<10	100	22	<1	<5
L787206	48.94	13.05	10.34	0.669	1.26	12.14	4.17	3.69	0.244	1.04	4.17	99.72	3	20	25	40	6	<20	40	280	41	2	<5
L787207	58.17	14.04	6.90	0.369	2.16	6.34	4.76	5.14	0.365	0.27	0.60	99.11	9	9	63	140	13	40	10	180	26	1	<5
L787208	58.07	13.95	6.67	0.327	1.51	6.97	4.76	4.89	0.317	0.98	0.56	99.00	9	7	55	90	10	40	40	140	26	1	<5
L787209	73.16	13.14	2.67	0.052	0.25	0.52	5.79	4.00	0.104	<0.01	0.23	99.94	2	15	8	<20	2	<20	<10	110	44	2	<5
L787382	58.70	15.84	7.79	0.257	0.76	3.01	5.66	5.40	0.751	0.22	0.64	99.03	12	4	18	<20	4	<20	<10	140	30	1	<5
L787383	59.71	15.99	7.36	0.257	0.64	3.29	5.64	5.61	0.681	0.30	0.70	100.2	10	3	15	<20	4	<20	<10	110	30	2	<5
L787384	36.42	7.29	28.48	1.410	2.12	15.80	2.20	1.32	0.381	3.72	0.38	99.53	7	8	6	<20	4	<20	<10	290	24	1	<5
L787385	58.69	15.63	6.33	0.244	0.78	3.44	5.89	5.60	0.391	0.26	2.24	99.49	13	4	14	<20	3	<20	10	70	25	1	<5
L787386	57.32	15.74	5.68	0.191	1.01	3.65	5.66	5.59	0.562	0.21	3.28	98.89	11	4	16	<20	3	<20	10	60	26	1	<5
L787398	57.86	12.47	9.27	0.521	0.96	8.77	3.62	5.30	0.359	0.45	0.44	100.0	9	3	7	<20	3	<20	20	140	22	2	<5
L787399	53.45	5.93	13.21	1.160	1.70	19.98	1.75	2.43	0.390	0.44	0.48	100.9	6	3	8	<20	3	<20	<10	190	13	2	<5
L787400	98.13	0.21	0.60	0.015	0.04	0.67	<0.01	0.04	0.024	<0.01	0.53	100.3	<1	<1	<5	<20	<1	<20	10	<30	<1	<1	<5
L787401	51.46	4.77	10.07	1.290	1.43	25.96	1.41	1.96	0.138	1.36	0.76	100.6	3	1	<5	<20	2	<20	<10	130	10	2	<5
L787402	54.87	9.39	13.08	0.583	1.24	12.92	2.82	3.70	0.373	1.76	0.13	100.9	14	4	16	<20	4	<20	<10	190	23	2	<5
L787403	58.67	13.26	8.65	0.388	0.75	7.73	4.09	5.24	0.293	0.76	0.57	100.4	12	3	7	<20	3	<20	<10	140	25	2	<5
L787404	60.90	14.13	7.80	0.306	0.56	5.89	4.33	5.41	0.263	0.31	0.37	100.3	8	6	9	<20	3	<20	<10	130	28	2	<5
L787405	56.96	13.78	8.61	0.334	0.57	6.80	4.16	5.54	0.290	1.22	0.33	98.60	10	3	8	<20	4	<20	30	240	24	2	<5
L787406	57.52	13.59	11.46	0.386	0.71	5.10	4.45	5.12	1.169	0.36	0.38	100.2	17	19	12	<20	4	<20	30	190	26	2	<5
L787407	57.95	15.13	9.03	0.250	1.11	3.69	5.38	4.66	1.148	0.36	0.44	99.15	16	3	29	<20	6	<20	30	170	25	1	<5
L787408	57.38	14.88	9.80	0.285	1.05	4.26	5.32	4.69	1.161	0.39	0.28	99.51	17	3	29	<20	6	<20	10	190	24	1	<5
L787409	58.91	15.23	9.66	0.313	0.62	3.99	5.13	5.43	0.746	0.36	0.24	100.6	16	2	9	<20	3	<20	20	160	25	1	<5
L787410	47.48	11.47	14.61	1.457	1.67	15.04	2.18	3.66	0.242	1.97	0.79	100.6	8	7	6	<20	3	<20	10	210	21	1	<5
L787412	1.23	0.31	39.52	3.224	1.82	29.29	0.08	0.02	0.007	4.62	16.72	96.84	5	<1	9	<20	7	<20	10	270	4	<1	<5
L787413	1.29	0.19	34.89	3.059	1.90	31.46	0.07	<0.01	0.011	3.38	22.15	98.41	6	<1	13	<20	6	<20	<10	220	4	<1	<5
L787414	27.38	10.57	50.44	0.165	1.63	1.74	0.22	0.12	3.059	1.47	1.42	98.20	71	6	370	580	15	80	70	400	34	2	43
L787415	0.71	0.19	32.77	3.054	1.98	32.47	0.06	<0.01	0.006	4.46	21.56	97.27	3	<1	9	<20	6	<20	<10	250	3	<1	<5
L787416	0.71	0.20	29.99	2.542	1.43	34.24	0.06	<0.01	0.008	5.71	22.04	96.94	3	<1	10	<20	4	<20	<10	190	4	<1	<5
L787417	0.58	0.14	55.62	4.296	0.91	22.28	0.01	<0.01	0.005	3.64	12.36	99.83	3	<1	13	<20	7	<20	<10	520	1	<1	<5
L787418	0.41	0.13	60.30	4.487	0.89	18.22	0.03	<0.01	0.003	3.55	9.95	97.97	3	<1	7	<20	8	<20	<10	460	2	<1	<5
L787419	1.19	0.68	77.91	1.707	0.36	10.26	0.04	<0.01	0.717	2.68	2.96	98.50	1	<1	31	<20	10	<20	<10	710	13	<1	<5
L787420	0.54	0.83	80.92	1.364	0.16	9.24	0.03	<0.01	1.132	0.09	4.51	98.82	<1	<1	41	<20	10	<20	<10	820	17	<1	<5
L787421	4.67	0.95	77.22	1.267	0.49	9.05	0.15	<0.01	1.289	2.33	1.03	98.45	3	2	46	<20	9	<20	<10	830	21	1	<5
L787422	98.38	0.22	0.25	0.010	0.03	0.68	0.01	0.04	0.024	<0.01	0.67	100.3	<1	<1	<5	<20	<1	<20	<10	<30	1	<1	<5
L787423	50.98	11.79	15.85	0.938	1.22	8.96	3.12	4.61	0.411	0.26	1.37	99.51	10	7	14	<20	4	<20	<10	270	24	2	<5
L787424	56.43	12.76	10.20	0.768	1.03	8.81	3.92	5.03	0.192	0.28	1.17	100.6	11	6	8	<20	3	<20	<10	190	23	1	<5
L787425	52.25	11.30	10.75	0.715	0.80	12.55	3.33	4.47	0.223	3.18	0.79	100.4	20	5	8	<20	4	<20	20	190	19	2	<5
L787426	58.14	14.54	8.07	0.394	0.49	6.33	4.84	5.25	0.197	0.75	0.81	99.80	13	3	6	<20	5	<20	40	210	25	1	<5
L787427	56.91	13.58	8.20	0.411	0.61	8.19	4.40	4.82	0.221	1.33	0.58	99.26	10	3	10	<20	3	<20	20	130	25	1	<5
L787428	52.74	10.55	10.76	0.564	0.93	12.49	3.71	3.66	0.400	3.26	0.34	99.42	16	4	10	<20	4	<20	20	200	20	2	<5
L787446	60.49	17.24	4.74	0.181	0.47	2.77	6.29	4.81	0.520	0.14	0.49	98.15	7	3	8	<20	2	<20	<10	120	25	1	<5

Results

Activation Laboratories

Report: A25-15089

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.005	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	GRAV	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
L787447	60.34	16.60	4.93	0.191	0.51	2.84	6.22	4.82	0.563	0.13	0.76	97.90	7	3	9	<20	2	<20	<10	100	26	1	<5
L787448	59.83	16.87	4.96	0.199	0.48	2.94	6.19	4.78	0.623	0.16	0.76	97.80	7	2	9	<20	2	<20	10	120	26	1	<5
L787472	56.50	14.00	12.80	0.459	0.94	3.64	4.82	4.85	1.205	0.27	0.43	99.91	23	4	10	<20	3	<20	<10	200	22	2	<5
L787473	57.88	14.75	10.79	0.359	0.92	3.71	5.19	4.55	1.177	0.25	0.22	99.80	22	3	9	<20	3	<20	<10	180	23	1	<5
L787474	58.54	16.16	7.04	0.209	0.73	3.42	5.69	4.54	0.842	0.24	0.37	97.79	16	3	10	<20	3	<20	<10	130	24	1	<5
L787487	58.88	15.88	5.82	0.157	0.77	2.59	5.62	5.35	0.703	0.16	1.78	97.70	9	3	11	<20	2	<20	<10	70	25	1	<5
L787488	56.92	15.50	5.54	0.159	1.60	3.24	5.19	5.40	0.652	0.14	4.89	99.23	7	3	10	<20	2	<20	<10	30	25	1	<5
L787489	55.48	15.28	5.85	0.214	1.93	4.38	5.08	5.30	0.516	0.25	5.78	100.1	7	3	8	<20	2	<20	<10	40	23	1	<5
L787490	99.05	0.21	0.33	0.008	0.03	0.44	0.01	0.04	0.024	<0.01	0.44	100.6	<1	<1	<5	<20	<1	<20	<10	<30	<1	<1	<5
L787491	60.62	16.63	5.19	0.124	0.74	1.99	5.94	5.40	0.671	0.16	2.18	99.63	8	3	11	<20	1	<20	<10	50	26	1	<5
L787514	61.21	16.14	6.44	0.192	0.51	2.71	5.91	5.13	0.719	0.13	0.62	99.72	13	3	6	<20	2	<20	<10	130	26	1	<5
L787515	50.84	13.15	8.63	0.358	1.09	9.51	4.95	4.12	0.821	1.64	5.12	100.2	14	3	11	<20	5	<20	<10	280	23	1	<5
L787516	59.93	15.83	7.17	0.211	0.46	2.88	5.65	5.08	0.844	0.17	0.27	98.51	13	3	9	<20	2	<20	<10	130	25	1	<5
L787517	59.03	15.08	8.55	0.246	0.58	3.19	5.37	4.81	1.086	0.22	0.13	98.30	16	4	12	<20	3	<20	<10	180	25	2	<5
L787518	63.24	16.63	4.84	0.157	0.50	2.24	5.69	5.82	0.382	0.12	0.63	100.2	9	2	5	<20	2	<20	<10	70	27	1	<5
L787519	61.86	15.96	6.33	0.220	0.26	2.30	5.52	5.91	0.367	0.08	0.54	99.37	5	2	<5	<20	1	<20	<10	230	30	1	<5
L787520	60.68	15.83	6.58	0.213	0.57	3.08	5.40	5.58	0.668	0.21	0.47	99.27	14	2	6	<20	2	<20	<10	110	26	1	<5
L787522	26.67	10.79	48.01	0.163	1.61	1.73	0.22	0.12	3.066	1.46	1.51	95.36	73	6	363	550	14	80	70	400	31	3	38
L787523	60.07	15.10	8.19	0.257	0.34	2.64	5.78	5.19	0.646	0.14	0.96	99.31	13	5	6	<20	1	<20	<10	160	28	2	<5
L787524	61.00	16.27	6.90	0.232	0.38	2.89	5.72	5.61	0.543	0.14	0.55	100.3	13	5	<5	<20	1	<20	10	130	28	1	<5
L787525	57.25	15.14	8.34	0.323	0.51	5.50	5.34	4.89	0.713	0.20	1.03	99.22	15	5	9	<20	3	<20	20	200	27	2	<5
L787526	60.13	15.93	7.42	0.261	0.39	3.50	5.65	5.38	0.652	0.15	0.61	100.1	14	4	6	<20	2	<20	<10	150	27	1	<5
L787527	60.18	15.37	7.55	0.249	0.39	3.31	5.61	5.34	0.674	0.14	0.56	99.36	15	4	<5	<20	2	<20	<10	130	27	2	<5
L787528	60.42	15.26	6.34	0.225	0.43	3.38	5.65	5.33	0.526	0.14	0.71	98.42	13	4	6	<20	2	<20	<10	110	26	1	<5
L787529	57.02	14.10	9.25	0.381	0.49	5.53	5.20	4.90	0.747	0.18	0.83	98.61	18	5	<5	<20	2	<20	<10	180	26	2	<5
L787530	98.97	0.21	0.33	0.009	0.03	0.48	0.01	0.04	0.023	<0.01	0.47	100.6	<1	<1	<5	<20	<1	<20	<10	<30	<1	<1	<5
L787531	61.10	15.26	7.67	0.310	0.33	3.28	5.37	5.42	0.621	0.13	0.42	99.90	14	4	<5	<20	1	<20	<10	90	28	2	<5
L787532	60.47	14.94	7.72	0.224	0.46	2.49	5.37	5.41	0.631	0.12	0.52	98.34	14	4	<5	<20	1	<20	<10	90	29	1	<5
L787533	60.34	15.72	7.61	0.245	0.51	2.70	5.71	5.59	0.637	0.16	0.63	99.86	15	4	<5	<20	1	<20	<10	100	28	2	<5
L787534	60.77	15.32	7.81	0.278	0.47	3.12	5.74	5.51	0.640	0.15	0.61	100.4	15	6	<5	<20	2	<20	<10	120	27	2	<5
L787535	60.78	15.37	7.18	0.211	0.76	3.00	5.62	5.54	0.484	0.19	1.43	100.6	13	4	<5	<20	1	<20	<10	80	28	2	<5
L787536	61.66	15.79	6.12	0.223	0.31	3.56	5.86	5.63	0.512	0.20	0.81	100.7	13	5	<5	<20	1	<20	<10	110	29	2	<5
L787537	62.64	14.73	5.40	0.223	0.24	4.24	5.69	5.30	0.309	0.13	1.10	100.0	7	6	<5	<20	1	<20	<10	130	32	2	<5
L787538	61.30	13.52	7.02	0.298	0.44	4.07	5.30	4.85	0.439	0.19	0.87	98.30	9	10	<5	<20	1	<20	<10	150	31	2	<5
L787539	61.24	13.74	7.86	0.310	0.31	3.86	6.21	4.50	0.445	0.14	0.69	99.32	9	11	6	<20	1	<20	<10	280	33	2	<5
L787540	50.44	12.56	27.50	0.048	1.18	1.01	0.17	1.47	1.939	0.46	3.14	99.93	30	3	259	370	10	60	40	120	27	2	55
L787541	62.84	15.27	4.94	0.168	0.26	3.00	6.46	5.10	0.321	0.08	0.94	99.38	5	7	<5	<20	1	<20	10	100	38	2	<5
L787542	62.65	16.23	3.08	0.088	0.21	2.74	6.57	5.14	0.174	0.07	1.11	98.05	3	6	<5	<20	<1	<20	<10	70	40	1	<5
L787543	63.52	16.18	3.06	0.094	0.19	2.70	6.69	5.21	0.103	0.06	1.17	98.96	2	6	<5	<20	<1	<20	<10	80	43	1	<5
L787544	58.93	13.40	6.98	0.275	0.17	5.31	5.92	4.43	0.399	0.06	1.45	97.33	1	6	<5	<20	1	<20	10	220	35	2	<5
L787545	55.11	12.93	7.83	0.323	0.30	9.78	5.79	3.93	0.531	0.39	2.64	99.55	5	7	5	<20	<1	<20	<10	170	32	2	<5
L787565	57.98	13.43	8.30	0.929	0.80	6.96	4.69	4.77	0.637	0.14	0.71	99.34	12	15	<5	<20	2	<20	10	280	27	1	<5
L787566	37.94	9.88	6.02	1.629	0.64	35.75	1.25	0.91	0.462	0.04	3.11	97.63	13	10	<5	<20	1	<20	<10	130	19	1	<5
L787567	43.12	10.75	7.31	1.927	0.40	28.78	2.97	1.64	0.610	0.02	1.58	99.10	17	13	5	<20	1	<20	<10	110	22	1	<5
L787568	44.21	10.70	8.39	2.113	0.64	25.28	2.72	2.49	0.714	0.02	2.26	99.54	18	24	5	<20	1	<20	<10	210	23	1	<5
L787569	43.78	11.83	7.31	1.802	0.53	26.71	3.07	1.99	0.564	0.03	2.10	99.73	15	16	<5	<20	2	<20	<10	180	22	1	<5
L787570	99.12	0.24	0.37	0.011	0.03	0.50	0.03	0.05	0.024	<0.01	0.45	100.8	<1	<1	<5	<20	<1	<20	<10	<30	<1	<1	<5
L787571	56.05	13.58	8.56	0.770	0.72	8.45	3.42	6.40	0.643	0.03	0.60	99.25	15	15	6	<20	1	<20	<10	180	26	2	<5
L787572	44.69	10.27	6.97	1.602	0.89	26.91	2.53	2.14	0.501	0.04	3.42	99.96	14	9	<5	<20	1	<20	<10	180	22	2	<5

Results

Activation Laboratories

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Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.005	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	GRAV	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
L787573	60.03	14.31	6.40	0.515	0.46	4.71	5.09	5.80	0.415	0.07	0.70	98.51	9	11	< 5	< 20	1	< 20	< 10	230	28	1	< 5
L787574	55.94	12.69	9.92	1.213	0.77	8.27	3.81	5.29	0.610	0.14	0.70	99.35	14	17	< 5	< 20	2	< 20	60	610	26	2	< 5
L787575	57.53	15.26	8.02	0.252	0.28	3.75	5.52	5.49	0.542	0.15	0.82	97.63	11	4	< 5	< 20	1	< 20	20	310	31	2	< 5
L787576	56.04	15.28	9.21	0.239	0.43	4.33	5.62	4.74	0.675	0.18	1.14	97.88	13	5	5	< 20	1	< 20	< 10	120	28	2	< 5
L787577	58.08	15.49	9.98	0.226	0.29	2.72	5.93	4.78	0.645	0.11	0.66	98.91	15	3	< 5	< 20	1	< 20	< 10	180	29	2	< 5
L787621	53.75	14.42	11.35	0.278	1.54	6.09	5.07	3.69	1.296	0.73	1.05	99.26	24	6	15	< 20	8	< 20	< 10	150	24	2	< 5
L787622	50.71	12.90	27.16	0.048	1.18	1.01	0.18	1.50	1.992	0.47	3.11	100.3	30	3	264	370	10	60	40	120	27	2	57
L787623	60.57	13.33	7.96	0.274	0.40	2.15	6.66	4.38	0.510	0.03	1.80	98.05	4	10	10	< 20	1	< 20	< 10	110	40	2	< 5
L787666	53.07	13.60	14.13	0.515	0.99	5.11	4.97	4.22	1.637	0.39	0.69	99.32	29	3	9	< 20	5	< 20	< 10	240	20	2	< 5
L787667	53.38	14.15	15.17	0.447	0.95	5.21	4.17	4.68	1.470	0.32	-0.02	99.93	36	2	9	< 20	5	< 20	< 10	270	20	2	< 5
L787668	51.54	12.78	18.63	0.525	1.20	5.97	3.95	3.71	1.960	0.40	-0.13	100.5	45	2	10	< 20	5	< 20	< 10	170	20	2	< 5
L787669	41.21	7.19	33.07	0.860	2.93	7.79	2.09	2.09	4.265	0.83	-1.44	100.9	79	1	18	< 20	14	< 20	10	340	18	2	< 5
L787715	41.24	10.34	23.62	0.514	4.61	8.87	2.69	1.56	3.948	2.58	0.12	100.1	40	1	98	< 20	31	< 20	20	250	19	1	< 5
L787716	97.99	0.21	0.35	0.011	0.04	0.65	0.01	0.04	0.024	< 0.01	0.57	99.90	< 1	< 1	< 5	< 20	< 1	< 20	< 10	< 30	< 1	< 1	< 5
L787717	54.20	15.39	11.62	0.237	1.37	4.12	5.54	3.06	1.873	0.42	0.35	98.19	18	2	27	< 20	8	< 20	< 10	160	25	1	< 5
L787718	49.97	14.50	15.39	0.314	2.91	6.02	4.55	2.08	2.317	1.05	1.08	100.2	25	1	50	< 20	17	< 20	10	180	21	1	< 5
L787719	43.64	11.76	20.47	0.455	4.41	8.24	3.21	1.95	3.294	2.33	-0.18	99.58	35	1	88	< 20	28	< 20	20	220	19	1	< 5
L787720	43.21	12.21	20.63	0.442	4.52	8.31	3.27	1.97	3.489	2.42	-0.13	100.3	34	1	95	< 20	29	< 20	20	220	19	1	< 5
L787733	58.83	16.68	5.89	0.143	0.95	2.76	5.11	6.04	0.992	0.28	0.65	98.32	14	2	7	< 20	5	< 20	< 10	80	21	1	< 5
L787734	59.07	17.43	4.91	0.125	0.76	2.55	5.20	6.16	0.836	0.20	0.90	98.14	11	2	< 5	< 20	4	< 20	< 10	70	21	1	< 5
L787735	61.58	17.33	4.44	0.104	0.68	2.38	5.50	6.30	0.665	0.18	0.87	100.0	9	2	6	< 20	3	< 20	< 10	90	23	1	< 5
L787737	54.58	15.89	9.78	0.252	1.63	4.84	5.23	3.98	1.329	0.54	1.37	99.43	20	3	12	< 20	6	< 20	< 10	130	25	2	< 5
L787738	55.34	10.41	13.76	0.254	2.55	2.81	7.59	2.33	0.299	0.08	4.69	100.1	27	13	17	< 20	4	< 20	< 10	220	38	2	< 5
L787739	56.20	10.19	9.72	0.332	2.27	4.61	4.91	3.81	0.361	0.06	6.45	98.92	7	20	8	< 20	2	< 20	< 10	220	40	2	< 5
L787740	56.46	12.23	9.94	0.403	1.36	5.88	4.87	4.68	0.667	0.62	2.37	99.47	8	9	15	< 20	4	< 20	< 10	210	30	2	< 5
L787741	56.83	13.29	9.46	0.371	1.21	5.93	4.53	5.20	0.539	0.68	0.47	98.51	7	5	17	< 20	6	< 20	< 10	190	26	2	< 5
L787742	55.83	12.76	11.23	0.443	1.47	6.16	4.42	5.15	1.018	0.78	0.41	99.67	8	4	33	< 20	9	< 20	10	240	25	2	< 5
L787743	52.08	11.79	13.26	0.516	2.88	7.05	3.78	4.92	0.765	1.58	0.54	99.15	7	3	50	40	18	30	30	230	21	2	< 5
L787744	55.42	12.05	10.77	0.397	2.20	7.27	4.23	4.70	0.615	1.15	0.46	99.26	11	4	43	50	8	20	10	210	22	2	< 5
L787745	50.66	9.87	19.05	0.661	2.51	7.27	3.45	3.71	0.892	1.02	-0.21	98.89	17	2	37	60	12	20	20	260	17	2	< 5
L787746	52.88	11.45	16.76	0.549	1.69	7.04	4.18	3.86	0.958	1.11	-0.08	100.4	24	3	20	< 20	9	< 20	30	250	20	2	< 5
L787747	26.98	10.62	48.42	0.164	1.64	1.75	0.23	0.12	3.054	1.47	1.52	95.97	74	7	374	540	14	80	60	390	31	2	37

Results

Activation Laboratories

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Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.1	0.1	0.05	0.1	0.1	0.05	0.1	0.1	0.1	0.1
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
L787013	131	289	23	200	93	4	< 0.5	< 0.2	2	1.0	1.7	1064	< 0.4	67.6	138	16.1	62.5	9.9	4.41	6.6	1.0	5.2	1.0
L787014	235	910	27	523	138	4	< 0.5	< 0.2	5	< 0.5	3.5	1458	< 0.4	118	243	26.8	95.3	14.5	2.83	8.4	1.2	6.3	1.1
L787015	245	943	38	706	371	4	< 0.5	< 0.2	9	1.3	4.4	1493	< 0.4	138	295	34.2	127	19.9	3.74	11.3	1.7	9.5	1.6
L787016	268	836	26	624	243	5	< 0.5	< 0.2	8	0.8	2.7	1210	< 0.4	115	212	22.0	76.1	10.7	2.25	6.4	1.0	5.7	1.0
L787050	< 2	21	2	78	2	< 2	< 0.5	< 0.2	< 1	0.9	< 0.5	12	< 0.4	4.4	8.6	1.01	4.3	0.8	0.14	0.5	< 0.1	0.5	< 0.1
L787051	112	239	47	280	133	3	< 0.5	< 0.2	3	0.8	2.5	995	< 0.4	146	272	28.7	105	16.3	6.37	11.3	1.8	10.1	1.8
L787052	198	333	50	448	170	5	< 0.5	< 0.2	5	0.6	1.3	709	< 0.4	232	395	37.6	126	17.6	4.46	11.4	1.7	10.4	1.9
L787053	171	292	30	485	136	4	< 0.5	< 0.2	4	0.7	1.0	717	< 0.4	111	194	19.3	67.8	10.4	4.25	7.4	1.1	6.6	1.2
L787054	109	263	29	169	75	4	< 0.5	< 0.2	2	< 0.5	0.9	878	< 0.4	102	183	18.6	68.5	10.1	4.62	7.2	1.0	5.9	1.1
L787055	85	171	21	91	68	4	< 0.5	< 0.2	2	0.7	0.9	1006	< 0.4	49.4	91.9	10.4	41.8	7.1	5.39	5.2	0.8	4.4	0.8
L787056	75	546	15	102	39	2	< 0.5	< 0.2	1	< 0.5	0.9	1798	< 0.4	43.0	73.4	7.72	28.9	5.0	4.58	3.7	0.5	3.1	0.6
L787057	89	535	14	78	47	2	< 0.5	< 0.2	1	0.5	0.6	1902	< 0.4	38.9	68.6	7.29	26.8	4.4	4.01	3.4	0.5	3.0	0.6
L787058	101	423	21	89	66	2	< 0.5	< 0.2	2	< 0.5	0.9	1804	< 0.4	58.5	99.5	10.2	36.8	5.7	3.64	4.4	0.7	4.1	0.8
L787059	158	406	42	760	142	4	< 0.5	< 0.2	5	< 0.5	1.4	791	< 0.4	175	277	24.8	74.5	10.7	2.43	7.7	1.2	7.7	1.6
L787060	205	323	98	4931	139	5	< 0.5	< 0.2	4	< 0.5	0.6	428	< 0.4	432	709	61.1	185	23.9	2.73	17.2	2.8	17.7	3.6
L787061	73	314	57	477	717	24	< 0.5	0.3	18	3.2	3.6	840	1.4	1350	1850	232	799	103	22.8	44.8	4.8	20.3	2.6
L787062	90	602	34	198	107	3	< 0.5	< 0.2	3	< 0.5	0.5	1814	< 0.4	113	192	18.5	63.5	9.1	4.04	6.9	1.0	6.3	1.2
L787063	59	483	63	1486	98	6	< 0.5	0.2	2	< 0.5	1.2	1253	< 0.4	135	279	32.0	132	22.7	4.73	17.2	2.4	14.0	2.4
L787064	56	787	24	57	32	2	< 0.5	< 0.2	1	< 0.5	< 0.5	2692	< 0.4	57.8	109	12.4	49.2	8.3	4.94	6.3	0.9	4.9	0.9
L787081	51	461	39	235	88	4	< 0.5	< 0.2	4	< 0.5	0.7	877	< 0.4	105	185	18.8	70.1	11.7	3.11	8.8	1.3	7.7	1.5
L787082	131	558	33	423	149	5	< 0.5	< 0.2	5	< 0.5	0.8	1546	< 0.4	105	181	17.6	62.5	9.3	3.49	6.8	1.0	6.4	1.3
L787083	104	521	23	641	71	4	< 0.5	< 0.2	2	< 0.5	0.6	1765	< 0.4	69.9	132	14.2	52.1	8.6	3.81	5.6	0.8	4.6	0.9
L787092	204	800	41	370	151	8	< 0.5	< 0.2	5	< 0.5	1.9	1632	< 0.4	188	334	32.9	113	15.5	3.93	10.1	1.5	8.8	1.5
L787093	172	870	115	761	195	4	< 0.5	< 0.2	12	< 0.5	1.7	1129	< 0.4	597	1230	125	431	57.8	10.2	34.7	4.8	26.3	4.6
L787108	42	776	55	296	151	9	< 0.5	< 0.2	1	< 0.5	0.6	1264	< 0.4	153	294	33.3	126	21.7	4.81	15.4	2.2	11.7	2.1
L787109	67	1003	106	895	192	19	< 0.5	< 0.2	3	< 0.5	1.5	1138	< 0.4	508	769	65.2	215	31.4	6.47	22.0	3.2	18.4	3.5
L787110	48	780	49	469	147	12	< 0.5	< 0.2	1	< 0.5	< 0.5	1462	< 0.4	142	267	28.8	110	18.8	4.84	13.6	1.9	10.6	1.8
L787128	< 2	21	2	134	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	10	< 0.4	4.3	8.3	0.96	3.7	0.6	0.12	0.5	< 0.1	0.5	< 0.1
L787129	151	444	46	325	139	5	< 0.5	< 0.2	3	< 0.5	1.5	1266	< 0.4	154	287	28.9	102	15.8	3.46	10.6	1.6	9.0	1.7
L787130	107	431	32	280	96	5	< 0.5	< 0.2	2	< 0.5	1.1	1456	< 0.4	110	206	21.6	78.1	12.2	3.49	8.1	1.2	7.0	1.2
L787131	156	516	53	267	149	12	< 0.5	< 0.2	3	< 0.5	1.7	1173	< 0.4	169	290	28.3	95.0	14.4	3.23	9.9	1.6	9.1	1.7
L787132	110	430	35	257	105	6	< 0.5	< 0.2	2	< 0.5	1.0	1413	< 0.4	111	206	21.2	76.1	11.7	3.46	8.1	1.2	7.0	1.3
L787133	163	377	41	330	115	5	< 0.5	< 0.2	3	< 0.5	1.8	1022	< 0.4	178	299	28.3	92.1	13.4	2.84	8.7	1.3	7.5	1.4
L787134	113	363	32	267	92	6	< 0.5	< 0.2	2	< 0.5	1.4	1329	< 0.4	111	200	20.6	73.1	10.8	3.23	7.7	1.1	6.4	1.2
L787135	178	387	103	372	173	7	< 0.5	< 0.2	3	< 0.5	3.7	619	< 0.4	291	509	49.2	167	26.2	3.73	18.3	2.9	17.8	3.5
L787136	120	541	33	291	102	5	< 0.5	< 0.2	2	< 0.5	1.7	1431	< 0.4	111	202	21.4	76.1	11.8	3.64	8.0	1.1	6.6	1.2
L787137	112	405	27	265	81	4	< 0.5	< 0.2	2	< 0.5	1.7	1428	< 0.4	96.1	176	18.3	66.5	10.2	3.36	6.8	1.0	5.5	1.0
L787138	108	321	28	295	82	4	< 0.5	< 0.2	2	< 0.5	1.5	1379	< 0.4	90.2	168	17.5	64.3	10.1	3.30	6.9	1.0	5.8	1.1
L787139	125	410	36	353	115	6	< 0.5	< 0.2	2	< 0.5	1.4	1362	< 0.4	122	217	22.1	79.0	12.4	3.53	8.1	1.2	7.1	1.3
L787140	127	342	23	292	81	5	< 0.5	< 0.2	2	0.5	1.8	1363	< 0.4	85.8	148	15.0	53.8	8.1	3.35	5.6	0.8	4.8	0.9
L787141	71	310	57	467	722	23	< 0.5	0.3	18	4.1	3.6	844	1.5	1350	1870	234	810	106	23.0	44.9	4.8	20.1	2.7
L787142	170	441	78	626	200	4	< 0.5	< 0.2	4	< 0.5	1.6	856	< 0.4	262	456	44.1	151	22.0	4.06	15.1	2.3	14.1	2.6
L787143	252	437	98	665	340	3	< 0.5	< 0.2	9	< 0.5	3.8	785	< 0.4	324	544	49.8	161	23.8	3.98	16.5	2.6	16.3	3.2
L787144	210	460	53	417	276	3	< 0.5	< 0.2	7	< 0.5	4.0	946	< 0.4	180	308	29.7	102	15.3	3.12	10.5	1.6	9.5	1.9
L787145	157	315	37	276	74	5	< 0.5	< 0.2	3	< 0.5	1.7	1309	< 0.4	127	224	24.0	87.0	13.9	3.52	9.3	1.3	7.6	1.5
L787146	138	334	29	299	78	9	< 0.5	< 0.2	3	0.5	2.0	1314	< 0.4	107	186	19.7	70.7	11.0	3.31	7.3	1.1	6.1	1.2
L787193	79	1367	85	90	52	5	< 0.5	0.2	2	< 0.5	1.1	977	< 0.4	524	921	96.0	331	48.8	6.80	30.0	4.0	20.5	3.5
L787194	83	915	67	459	53	2	< 0.5	0.2	3	< 0.5	1.0	746	< 0.4	304	562	60.9	215	32.8	4.00	20.6	2.9	15.2	2.8
L787195	93	936	65	201	47	3	< 0.5	0.2	1	0.9	1.2	1098	< 0.4	361	644	68.6	238	34.4	4.34	20.5	2.8	14.8	2.6
L787196	107	2089	56	1329	582	4	0.6	< 0.2	5	< 0.5	2.6	1414	< 0.4	264	515	56.2	202	30.6	5.57	18.2	2.5	13.5	2.4

Results

Activation Laboratories

Report: A25-15089

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	2	4	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.1	0.1	0.05	0.1	0.1	0.05	0.1	0.1	0.1	0.1
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
L787197	73	1680	73	453	278	4	< 0.5	< 0.2	4	< 0.5	1.2	666	< 0.4	344	623	65.6	232	34.8	5.86	22.3	3.1	16.8	3.0
L787198	180	540	30	317	128	13	< 0.5	< 0.2	3	< 0.5	1.2	346	< 0.4	123	207	21.5	73.0	11.2	2.37	7.0	1.0	5.8	1.1
L787199	201	482	26	523	192	6	< 0.5	< 0.2	5	< 0.5	1.9	307	< 0.4	105	169	17.0	56.9	8.6	2.36	5.6	0.9	5.1	1.0
L787200	6	971	170	409	1000	59	1.4	0.9	26	2.5	< 0.5	1191	3.8	5240	6950	1060	3890	573	125	228	21.5	75.0	9.0
L787201	192	817	50	463	226	3	< 0.5	< 0.2	5	< 0.5	2.3	356	< 0.4	168	298	31.7	111	17.3	3.48	11.3	1.8	9.9	1.9
L787202	9	9823	131	97	306	< 2	< 0.5	< 0.2	3	< 0.5	0.7	503	< 0.4	661	1390	163	628	99.0	26.5	57.0	7.6	37.9	6.2
L787203	13	6063	119	58	704	< 2	< 0.5	< 0.2	3	< 0.5	1.0	504	< 0.4	749	1570	177	678	103	26.0	54.9	7.0	34.0	5.3
L787204	43	5001	96	139	610	< 2	< 0.5	< 0.2	3	< 0.5	0.8	1068	< 0.4	581	1160	131	502	77.1	20.1	43.9	5.6	27.8	4.5
L787205	208	2759	71	262	1020	2	< 0.5	< 0.2	6	< 0.5	1.6	1082	< 0.4	399	775	85.9	324	49.3	12.4	28.5	3.7	18.6	3.1
L787206	297	2534	76	1743	1140	< 2	0.8	< 0.2	25	< 0.5	3.6	636	< 0.4	221	439	48.8	178	28.4	6.38	17.9	2.6	15.3	3.1
L787207	269	2092	35	387	218	3	< 0.5	< 0.2	6	< 0.5	4.3	1025	< 0.4	131	250	27.1	96.3	15.3	3.41	10.1	1.4	7.9	1.5
L787208	207	2272	65	377	200	4	< 0.5	< 0.2	5	< 0.5	2.7	844	< 0.4	271	480	50.0	174	26.8	5.82	17.9	2.6	14.2	2.6
L787209	376	126	99	849	290	< 2	< 0.5	< 0.2	13	< 0.5	3.5	90	< 0.4	46.7	104	12.9	49.5	15.4	0.57	15.5	2.8	18.6	3.6
L787382	135	370	38	1096	265	4	0.5	< 0.2	3	< 0.5	1.1	1278	< 0.4	149	270	29.6	107	16.8	3.69	11.2	1.6	8.6	1.6
L787383	165	598	37	425	203	5	< 0.5	< 0.2	3	< 0.5	1.9	1155	< 0.4	160	292	31.8	115	17.7	4.02	11.4	1.6	8.9	1.6
L787384	53	2706	202	463	374	12	< 0.5	0.2	7	< 0.5	1.7	1556	< 0.4	1480	2670	287	1010	135	26.8	74.1	9.4	47.9	8.2
L787385	179	881	32	308	154	5	< 0.5	< 0.2	5	< 0.5	1.6	1769	< 0.4	157	276	28.9	101	14.8	3.66	8.8	1.2	6.8	1.2
L787386	180	748	34	408	185	4	< 0.5	< 0.2	4	< 0.5	1.3	1493	< 0.4	145	244	25.6	91.1	14.2	3.48	8.8	1.2	6.9	1.3
L787398	136	1533	66	468	126	7	< 0.5	< 0.2	2	< 0.5	0.7	1188	< 0.4	215	401	43.9	161	25.9	4.47	17.1	2.5	14.1	2.7
L787399	66	825	132	402	163	7	< 0.5	0.2	3	< 0.5	< 0.5	449	< 0.4	243	454	51.4	194	35.0	5.71	27.1	4.2	26.0	5.3
L787400	< 2	22	2	108	2	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	13	< 0.4	4.7	9.1	1.05	4.0	0.8	0.12	0.5	< 0.1	0.4	0.1
L787401	51	892	178	201	63	3	< 0.5	< 0.2	1	< 0.5	< 0.5	469	< 0.4	381	732	81.7	310	54.6	10.0	41.3	6.2	37.0	7.6
L787402	120	1262	118	136	139	5	< 0.5	0.2	3	< 0.5	0.8	978	< 0.4	487	917	101	372	59.7	9.67	38.4	5.2	27.4	4.9
L787403	137	1654	64	365	103	4	< 0.5	< 0.2	2	< 0.5	0.9	1488	< 0.4	259	482	53.6	195	31.6	5.75	20.1	2.8	14.7	2.8
L787404	217	1811	48	483	142	3	< 0.5	< 0.2	4	< 0.5	2.6	1537	< 0.4	145	268	29.0	105	17.2	3.37	11.5	1.7	10.0	1.9
L787405	129	1627	79	229	83	5	0.5	< 0.2	2	< 0.5	0.7	1417	< 0.4	410	749	80.4	293	44.5	7.16	28.7	3.7	18.9	3.3
L787406	176	1092	84	464	228	10	< 0.5	0.2	7	< 0.5	3.4	1051	< 0.4	198	384	42.5	153	26.6	4.04	18.7	2.9	17.1	3.2
L787407	110	514	46	365	145	10	< 0.5	< 0.2	3	< 0.5	1.1	1941	< 0.4	169	299	32.3	118	18.4	4.71	12.4	1.8	10.2	1.9
L787408	105	824	41	319	137	11	< 0.5	< 0.2	3	< 0.5	0.9	1921	< 0.4	155	276	29.6	108	17.1	4.44	11.4	1.6	8.6	1.6
L787409	126	979	37	195	100	9	< 0.5	< 0.2	2	< 0.5	0.8	1227	< 0.4	159	286	31.6	117	18.3	4.11	11.8	1.6	8.6	1.5
L787410	111	3526	122	287	255	7	< 0.5	< 0.2	5	< 0.5	1.7	977	< 0.4	807	1410	147	516	73.2	16.8	42.6	5.7	28.7	4.9
L787412	2	10210	154	55	393	174	< 0.5	< 0.2	3	< 0.5	< 0.5	404	< 0.4	796	1620	186	692	102	27.0	61.0	8.2	40.8	6.6
L787413	< 2	9672	140	37	542	117	< 0.5	< 0.2	3	< 0.5	< 0.5	554	< 0.4	796	1710	198	767	117	32.5	65.2	8.4	39.6	6.2
L787414	6	936	170	397	919	58	1.3	0.8	23	2.3	< 0.5	1143	3.4	5190	6670	1020	3740	547	118	217	19.9	71.5	8.6
L787415	< 2	9006	151	35	869	136	< 0.5	< 0.2	2	< 0.5	< 0.5	945	< 0.4	757	1500	168	632	94.6	25.2	55.1	7.5	38.0	6.4
L787416	< 2	12660	181	34	621	44	< 0.5	< 0.2	2	< 0.5	< 0.5	1137	< 0.4	1210	2270	254	957	143	36.8	80.1	10.5	51.5	8.4
L787417	< 2	6140	52	41	395	71	< 0.5	0.3	2	< 0.5	< 0.5	260	< 0.4	634	946	86.1	261	30.5	7.57	17.0	2.4	12.6	2.3
L787418	< 2	3782	43	54	344	62	< 0.5	0.4	1	< 0.5	< 0.5	106	< 0.4	616	939	82.5	235	22.7	5.22	11.6	1.7	9.8	1.8
L787419	< 2	1911	54	83	565	66	< 0.5	< 0.2	15	< 0.5	< 0.5	63	< 0.4	486	858	84.6	280	35.7	8.20	20.5	2.7	14.1	2.4
L787420	< 2	2280	17	82	373	91	< 0.5	< 0.2	21	< 0.5	< 0.5	78	< 0.4	141	237	22.8	75.0	9.5	2.41	5.6	0.7	3.8	0.7
L787421	2	1679	78	151	504	81	< 0.5	< 0.2	20	< 0.5	< 0.5	44	< 0.4	585	1150	123	436	59.9	13.4	33.4	4.4	21.2	3.4
L787422	< 2	21	2	103	3	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	10	< 0.4	4.2	8.3	0.97	3.7	0.7	0.15	0.5	< 0.1	0.5	0.1
L787423	150	2054	28	526	137	8	< 0.5	0.2	6	< 0.5	2.9	1413	< 0.4	135	259	28.0	98.7	14.5	3.65	8.6	1.2	6.5	1.2
L787424	135	2056	37	455	112	5	< 0.5	0.2	4	< 0.5	1.8	1548	< 0.4	165	314	34.0	122	18.5	4.35	11.4	1.6	8.5	1.5
L787425	126	2108	153	125	103	5	< 0.5	0.2	2	< 0.5	2.1	1505	< 0.4	764	1500	161	591	90.4	16.6	55.8	7.3	36.1	6.1
L787426	126	2050	58	305	90	4	0.6	< 0.2	1	< 0.5	1.1	1677	< 0.4	237	464	51.0	186	29.0	6.45	18.7	2.6	13.0	2.3
L787427	101	2443	80	280	102	3	< 0.5	< 0.2	1	< 0.5	0.9	1900	< 0.4	342	676	74.6	277	43.5	8.73	27.3	3.7	18.3	3.1
L787428	78	1342	162	221	150	11	< 0.5	0.2	1	< 0.5	0.6	1186	< 0.4	756	1470	157	575	90.4	16.7	56.7	7.6	37.8	6.5
L787446	100	553	26	269	107	8	< 0.5	< 0.2	1	< 0.5	0.9	2030	< 0.4	138	223	21.7	72.8	10.3	4.98	6.3	0.9	5.0	1.0
L787447	102	540	23	310	109	9	< 0.5	< 0.2	1	< 0.5	0.9	2035	< 0.4	137	217	20.9	69.1	9.7	4.94	6.0	0.9	4.7	0.9

Results

Activation Laboratories

Report: A25-15089

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.1	0.1	0.05	0.1	0.1	0.05	0.1	0.1	0.1	0.1
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
L787448	94	559	25	226	114	10	< 0.5	< 0.2	1	< 0.5	0.8	2158	< 0.4	148	235	22.3	73.7	10.3	5.30	6.3	0.9	5.0	0.9
L787472	92	552	40	207	156	16	< 0.5	< 0.2	1	< 0.5	0.6	1521	< 0.4	171	307	32.4	118	17.7	4.26	11.4	1.6	8.4	1.5
L787473	97	559	39	399	151	12	< 0.5	< 0.2	1	< 0.5	0.8	2246	< 0.4	146	265	28.6	101	16.2	4.82	10.3	1.5	8.3	1.5
L787474	86	563	31	305	84	7	< 0.5	< 0.2	1	< 0.5	0.7	3311	< 0.4	119	213	22.8	82.9	12.7	5.56	8.5	1.2	6.3	1.2
L787487	116	470	36	1250	123	13	0.5	< 0.2	2	< 0.5	2.1	1873	< 0.4	140	236	24.5	86.5	13.6	4.81	8.7	1.3	7.0	1.4
L787488	124	445	33	1154	131	4	0.5	< 0.2	2	< 0.5	4.0	1825	< 0.4	138	230	23.2	80.6	12.0	4.55	7.8	1.2	6.6	1.2
L787489	122	548	37	895	111	5	< 0.5	< 0.2	2	< 0.5	3.8	1910	< 0.4	145	245	25.1	86.4	13.1	4.89	8.7	1.2	7.1	1.4
L787490	< 2	20	2	116	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	11	< 0.4	4.1	7.9	0.90	3.6	0.6	0.11	0.5	< 0.1	0.4	< 0.1
L787491	126	434	36	1265	115	4	0.5	< 0.2	2	< 0.5	3.4	1983	< 0.4	177	298	29.9	99.9	14.0	5.19	8.7	1.2	6.9	1.3
L787514	98	588	30	365	125	9	< 0.5	< 0.2	2	< 0.5	< 0.5	2161	< 0.4	112	206	22.4	82.1	12.6	4.13	7.9	1.1	6.0	1.1
L787515	163	2271	45	298	119	5	< 0.5	< 0.2	3	< 0.5	5.7	1906	< 0.4	233	514	64.4	266	40.2	8.76	18.0	2.1	10.1	1.8
L787516	103	577	35	292	110	7	< 0.5	< 0.2	2	< 0.5	< 0.5	2204	< 0.4	115	219	23.8	86.8	13.8	3.99	9.1	1.3	7.2	1.3
L787517	105	584	44	671	179	10	< 0.5	< 0.2	3	< 0.5	< 0.5	2174	< 0.4	155	293	31.6	115	18.5	4.07	11.6	1.7	9.1	1.7
L787518	122	391	18	74	34	5	< 0.5	< 0.2	1	< 0.5	0.5	845	< 0.4	79.8	139	14.5	52.7	7.9	2.31	5.1	0.7	3.9	0.7
L787519	119	402	19	64	22	3	< 0.5	< 0.2	1	< 0.5	< 0.5	704	< 0.4	79.5	155	17.6	66.6	10.5	2.48	6.6	0.9	4.4	0.8
L787520	114	482	28	113	64	8	< 0.5	< 0.2	1	< 0.5	0.6	1425	< 0.4	130	228	24.1	86.5	13.2	3.43	8.2	1.2	6.1	1.1
L787522	6	941	174	493	1130	54	1.3	1.0	27	2.4	< 0.5	1147	3.3	5070	6560	1000	3700	546	118	216	20.2	68.6	8.4
L787523	171	245	65	949	199	10	< 0.5	< 0.2	2	< 0.5	1.1	1152	< 0.4	291	518	52.6	181	26.4	3.79	16.5	2.4	12.7	2.4
L787524	176	693	45	639	89	13	< 0.5	< 0.2	1	< 0.5	1.1	1490	< 0.4	188	310	31.0	107	16.0	3.54	10.7	1.6	8.8	1.7
L787525	157	1232	72	378	113	8	< 0.5	0.2	2	< 0.5	0.9	1552	< 0.4	374	623	61.7	211	29.9	5.79	19.5	2.8	14.8	2.7
L787526	183	929	44	335	92	7	< 0.5	0.2	1	< 0.5	1.1	1545	< 0.4	227	387	38.7	134	19.3	4.12	12.1	1.8	9.4	1.7
L787527	195	690	40	297	67	9	< 0.5	< 0.2	2	< 0.5	1.0	1563	< 0.4	201	343	35.0	123	18.4	4.02	11.7	1.7	8.9	1.6
L787528	202	1287	45	195	42	7	< 0.5	< 0.2	1	< 0.5	0.9	2431	< 0.4	263	423	41.5	141	19.9	4.14	12.4	1.8	9.2	1.7
L787529	169	744	94	325	74	8	< 0.5	0.2	2	< 0.5	1.3	1407	< 0.4	584	923	88.1	292	39.7	7.68	25.1	3.5	19.2	3.5
L787530	< 2	20	2	98	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	12	< 0.4	4.2	8.1	0.92	3.4	0.6	0.12	0.5	< 0.1	0.5	< 0.1
L787531	154	721	93	290	78	10	< 0.5	< 0.2	1	< 0.5	0.9	1454	< 0.4	665	1030	97.4	316	41.9	8.46	26.8	3.7	20.0	3.5
L787532	148	267	52	588	125	9	< 0.5	< 0.2	1	< 0.5	1.1	1148	< 0.4	180	307	31.6	110	17.2	3.81	11.9	1.7	10.0	2.0
L787533	146	428	70	397	108	11	< 0.5	< 0.2	1	< 0.5	0.9	1390	< 0.4	418	680	65.6	220	30.5	6.36	18.6	2.6	14.0	2.6
L787534	152	518	84	502	142	10	< 0.5	< 0.2	2	< 0.5	1.1	1386	< 0.4	505	821	78.2	259	35.8	7.09	21.8	3.1	16.3	3.1
L787535	145	458	72	412	95	16	< 0.5	< 0.2	1	< 0.5	0.7	1234	< 0.4	334	547	53.3	179	25.9	5.05	16.8	2.4	13.3	2.5
L787536	166	618	84	493	121	10	< 0.5	< 0.2	2	< 0.5	0.8	1323	< 0.4	410	676	66.0	223	32.7	5.81	20.9	3.0	16.7	3.1
L787537	191	769	119	883	227	5	< 0.5	< 0.2	4	< 0.5	0.6	993	< 0.4	556	953	94.5	317	46.3	6.90	30.7	4.3	24.3	4.4
L787538	201	841	186	1138	243	9	0.5	0.2	5	< 0.5	1.3	833	< 0.4	951	1620	156	519	74.2	11.9	49.2	6.9	40.6	7.3
L787539	219	719	171	1373	295	15	0.5	0.2	8	< 0.5	0.5	760	< 0.4	915	1460	135	444	65.3	8.81	43.2	6.3	34.7	6.6
L787540	73	303	56	459	671	25	< 0.5	0.3	15	3.6	3.7	823	1.5	1340	1820	235	802	106	22.6	44.2	4.6	19.5	2.7
L787541	238	600	98	1192	233	101	0.5	< 0.2	4	< 0.5	0.5	601	< 0.4	410	658	63.4	211	32.1	3.89	21.5	3.2	17.9	3.5
L787542	212	634	81	692	120	48	< 0.5	< 0.2	2	< 0.5	< 0.5	416	< 0.4	297	494	48.0	162	24.6	2.91	16.6	2.5	14.4	2.7
L787543	220	561	78	1218	133	8	0.5	< 0.2	3	< 0.5	0.5	269	< 0.4	302	510	50.0	165	25.0	2.62	16.8	2.5	13.9	2.7
L787544	177	719	89	4851	236	8	2.6	0.2	3	< 0.5	0.6	321	< 0.4	301	537	54.5	183	26.0	2.57	16.8	2.5	14.7	3.1
L787545	153	696	150	880	196	4	< 0.5	0.3	3	< 0.5	0.7	210	< 0.4	680	1200	118	397	56.3	5.74	35.6	5.0	26.7	5.0
L787565	155	3342	77	867	248	5	0.6	< 0.2	6	< 0.5	0.6	2839	< 0.4	241	413	42.7	151	24.7	5.05	16.9	2.6	14.8	2.9
L787566	23	2222	332	509	183	< 2	< 0.5	0.2	3	< 0.5	< 0.5	1099	< 0.4	2210	2860	238	734	93.9	22.7	57.0	7.6	40.2	7.5
L787567	48	2288	253	656	186	2	0.6	0.2	3	< 0.5	0.5	1063	< 0.4	1470	2110	182	565	73.9	17.3	45.5	6.0	32.0	6.1
L787568	74	3687	108	632	130	2	< 0.5	0.2	3	< 0.5	0.6	1505	< 0.4	791	1130	94.0	289	35.9	8.13	22.1	3.0	16.4	3.2
L787569	65	2659	158	565	156	< 2	< 0.5	0.2	2	< 0.5	0.8	1480	< 0.4	1500	2030	164	496	59.1	13.2	34.2	4.5	23.3	4.3
L787570	< 2	23	2	95	< 1	2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	12	< 0.4	6.0	10.6	1.12	4.3	0.7	0.13	0.6	< 0.1	0.5	< 0.1
L787571	211	2822	53	597	117	< 2	< 0.5	0.2	2	< 0.5	0.8	4119	< 0.4	156	211	21.1	78.0	14.7	3.50	11.0	1.8	10.8	2.1
L787572	62	2461	434	793	287	2	< 0.5	< 0.2	4	< 0.5	0.8	1634	< 0.4	1830	2920	261	827	110	26.0	68.6	9.6	51.6	10.0
L787573	240	2070	39	543	176	5	< 0.5	< 0.2	3	< 0.5	1.1	2168	< 0.4	246	356	32.1	102	14.8	2.61	9.0	1.3	7.3	1.4
L787574	261	2839	87	769	173	6	3.4	0.2	4	< 0.5	1.9	2456	0.8	231	335	32.8	119	22.2	5.05	17.1	2.8	15.6	3.0

Results

Activation Laboratories

Report: A25-15089

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.1	0.1	0.05	0.1	0.1	0.05	0.1	0.1	0.1	0.1
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
L787575	154	782	74	690	137	24	0.5	0.2	6	< 0.5	0.5	1447	< 0.4	355	564	54.9	188	27.9	4.10	18.2	2.7	14.8	2.8
L787576	120	514	81	769	171	4	< 0.5	< 0.2	6	< 0.5	< 0.5	1665	< 0.4	296	461	44.9	155	24.0	4.57	17.4	2.6	15.5	2.9
L787577	117	119	73	736	171	4	< 0.5	< 0.2	4	< 0.5	< 0.5	1527	< 0.4	169	338	37.6	138	23.0	4.32	16.4	2.5	14.5	2.7
L787621	113	724	144	522	146	8	< 0.5	< 0.2	3	< 0.5	1.7	2764	< 0.4	368	681	72.4	264	43.4	6.85	31.5	4.7	26.2	5.0
L787622	74	304	57	474	691	25	< 0.5	0.3	16	4.0	3.6	841	1.5	1320	1800	236	801	107	22.8	44.0	4.7	18.6	2.7
L787623	221	219	86	1223	240	86	0.5	0.2	5	< 0.5	1.6	545	< 0.4	482	787	74.7	241	30.5	2.68	18.1	2.5	14.4	2.8
L787666	125	648	28	233	83	9	< 0.5	0.2	3	< 0.5	1.8	2226	< 0.4	103	198	22.3	84.8	13.3	4.44	8.3	1.1	5.9	1.1
L787667	92	509	28	170	42	5	< 0.5	0.2	1	< 0.5	1.0	2668	< 0.4	80.4	156	18.0	71.3	12.3	4.74	8.0	1.1	5.9	1.1
L787668	69	377	33	173	56	7	< 0.5	0.2	1	< 0.5	0.9	2013	< 0.4	79.8	164	19.8	80.3	13.8	4.23	9.7	1.4	6.9	1.3
L787669	40	257	53	179	104	12	< 0.5	0.3	1	< 0.5	0.7	1413	< 0.4	123	269	33.5	140	24.5	3.68	16.9	2.3	11.9	2.1
L787715	37	703	58	152	98	4	< 0.5	< 0.2	1	< 0.5	0.6	1411	< 0.4	141	300	36.5	152	25.8	6.20	18.3	2.5	12.7	2.2
L787716	< 2	20	3	115	< 1	2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	12	< 0.4	3.6	7.7	0.89	3.4	0.7	0.14	0.5	< 0.1	0.5	0.1
L787717	52	660	28	377	118	9	< 0.5	< 0.2	2	< 0.5	< 0.5	1650	< 0.4	102	183	19.9	76.3	11.7	5.36	8.1	1.1	6.0	1.2
L787718	36	1060	30	112	56	4	< 0.5	< 0.2	1	< 0.5	< 0.5	2079	< 0.4	80.8	160	18.9	76.6	12.8	5.89	9.1	1.3	6.4	1.2
L787719	52	827	52	147	99	3	< 0.5	< 0.2	1	< 0.5	0.7	1560	< 0.4	136	284	34.0	137	23.5	6.36	16.8	2.2	11.7	2.1
L787720	58	847	54	146	99	4	< 0.5	< 0.2	1	< 0.5	0.8	1629	< 0.4	135	281	33.3	134	22.8	6.26	16.1	2.2	11.4	2.0
L787733	95	603	26	235	74	4	< 0.5	< 0.2	1	< 0.5	1.0	3080	< 0.4	77.3	145	15.8	59.4	9.8	5.30	6.8	1.0	5.4	1.0
L787734	92	663	27	221	78	5	< 0.5	< 0.2	1	< 0.5	0.8	3144	< 0.4	88.4	160	17.0	61.0	9.9	5.41	6.6	1.0	5.3	1.0
L787735	103	615	27	268	71	14	< 0.5	< 0.2	1	< 0.5	0.6	2959	< 0.4	85.3	156	16.5	59.7	9.5	5.11	6.4	0.9	5.3	1.1
L787737	106	693	50	437	110	12	< 0.5	< 0.2	2	< 0.5	1.5	3372	< 0.4	178	314	33.2	120	18.2	6.07	12.9	1.8	10.0	1.9
L787738	109	110	132	4400	681	7	1.5	0.3	22	0.7	1.6	144	< 0.4	505	797	73.5	233	30.0	5.57	20.9	3.3	20.8	4.5
L787739	244	120	524	5577	948	5	2.0	0.2	36	0.7	1.3	201	< 0.4	628	1080	103	338	57.9	10.5	55.0	10.4	72.3	16.6
L787740	192	716	208	1589	301	7	0.6	0.2	9	< 0.5	0.9	1061	< 0.4	553	1020	109	394	61.2	9.30	42.0	6.2	35.6	7.1
L787741	164	1095	106	771	224	7	< 0.5	< 0.2	3	< 0.5	1.0	1940	< 0.4	402	784	87.2	328	51.8	7.61	32.2	4.4	23.3	4.2
L787742	147	1030	95	455	239	8	< 0.5	0.2	2	< 0.5	0.7	1329	< 0.4	424	783	84.3	303	46.2	7.14	28.6	3.9	20.8	3.7
L787743	126	792	105	371	193	9	< 0.5	0.2	1	< 0.5	0.8	1162	< 0.4	389	793	89.0	334	52.2	7.91	32.4	4.4	22.9	4.0
L787744	138	800	131	576	166	6	< 0.5	0.2	2	< 0.5	0.9	1798	< 0.4	472	902	100	379	59.8	8.28	39.5	5.5	28.7	5.1
L787745	86	392	82	295	112	7	< 0.5	0.2	1	< 0.5	0.8	1876	< 0.4	272	543	63.0	243	39.3	5.93	25.9	3.5	18.4	3.3
L787746	97	472	75	411	142	8	< 0.5	0.2	2	< 0.5	1.0	2047	< 0.4	256	502	56.9	217	34.5	5.95	22.5	3.1	16.2	3.0
L787747	6	940	174	375	865	54	1.2	0.9	23	2.1	< 0.5	1171	3.1	4830	6480	971	3590	530	116	210	19.4	67.5	8.2

Analyte Symbol	Er	Tm	Yb	Lu	Hf	Ta	W	Tl	Pb	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.05	0.1	0.04	0.2	0.1	1	0.1	5	0.1	0.1
Method Code	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
L787013	2.5	0.37	2.6	0.56	4.0	4.3	1	0.3	12	21.9	1.9
L787014	3.5	0.54	4.3	0.77	10.0	7.5	2	0.4	18	60.4	6.7
L787015	4.9	0.75	6.0	1.09	15.0	27.2	2	0.4	23	60.9	10.4
L787016	3.2	0.52	4.0	0.74	11.7	12.7	2	0.4	21	62.1	10.8
L787050	0.3	< 0.05	0.2	0.04	1.8	< 0.1	< 1	< 0.1	< 5	0.6	0.2
L787051	5.1	0.71	4.2	0.62	7.0	6.3	2	0.3	12	15.4	2.5
L787052	5.5	0.76	4.7	0.70	8.2	8.4	2	0.4	20	37.6	6.0
L787053	3.6	0.51	3.5	0.54	9.4	6.3	2	0.3	22	23.4	4.2
L787054	2.9	0.39	2.6	0.37	3.5	3.3	1	0.3	12	14.1	2.3
L787055	2.3	0.31	2.0	0.31	2.5	2.7	2	0.2	8	7.9	1.4
L787056	1.6	0.21	1.4	0.22	2.3	2.0	1	0.2	9	4.6	1.0
L787057	1.6	0.23	1.6	0.25	2.0	2.6	1	0.2	10	7.0	1.8
L787058	2.4	0.34	2.2	0.32	2.4	3.3	4	0.3	10	12.3	2.1
L787059	4.9	0.77	5.1	0.75	15.8	9.1	2	0.3	23	51.0	9.5
L787060	11.4	1.78	11.9	1.87	81.0	8.2	2	0.4	26	91.0	19.2
L787061	5.7	0.62	3.5	0.48	10.3	13.3	4	0.4	65	110	4.2
L787062	3.4	0.51	3.3	0.48	4.7	5.2	1	0.2	15	25.2	4.6
L787063	6.8	0.91	6.1	0.94	26.0	4.8	2	0.3	13	10.4	2.3
L787064	2.4	0.33	1.9	0.29	1.5	1.5	2	0.2	8	5.6	0.5
L787081	4.1	0.57	3.8	0.58	5.2	4.0	3	0.2	14	13.5	1.7
L787082	3.7	0.55	4.1	0.59	8.1	7.6	3	0.3	19	34.1	4.4
L787083	2.5	0.38	2.7	0.47	10.7	3.2	1	0.2	15	15.2	1.5
L787092	4.4	0.62	4.3	0.59	8.6	6.9	3	0.4	33	37.6	4.4
L787093	13.0	1.92	13.0	2.06	17.2	12.3	2	0.3	24	150	16.0
L787108	5.7	0.78	4.9	0.71	6.4	6.0	1	0.2	17	4.3	0.7
L787109	10.1	1.42	8.8	1.22	15.7	7.3	5	0.2	26	30.8	3.6
L787110	4.9	0.64	4.2	0.64	8.2	5.5	< 1	0.1	21	4.4	0.6
L787128	0.3	< 0.05	0.3	0.04	2.9	< 0.1	< 1	< 0.1	< 5	0.5	0.3
L787129	4.8	0.68	4.9	0.76	6.5	6.1	2	0.4	22	30.0	3.8
L787130	3.4	0.46	3.2	0.49	5.8	4.3	3	0.3	19	12.4	1.7
L787131	5.2	0.76	5.2	0.73	6.3	8.7	3	0.4	23	37.5	8.4
L787132	3.6	0.51	3.4	0.51	5.4	4.7	2	0.4	19	16.7	2.9
L787133	4.2	0.63	4.5	0.66	7.8	6.9	3	0.4	21	32.0	4.9
L787134	3.4	0.48	3.4	0.55	5.8	4.6	7	0.4	19	20.4	3.8
L787135	11.1	1.81	13.5	2.11	12.0	15.8	7	0.6	36	88.5	26.6
L787136	3.5	0.50	3.3	0.55	5.9	4.1	3	0.5	27	15.7	2.2
L787137	2.9	0.42	2.7	0.45	5.5	3.3	2	0.5	22	14.1	2.0
L787138	2.9	0.41	2.8	0.46	6.0	3.6	2	0.4	18	14.1	2.3
L787139	3.8	0.55	3.7	0.56	7.4	4.7	3	0.4	21	20.6	3.4
L787140	2.5	0.37	2.8	0.41	5.7	3.8	3	0.5	24	17.5	2.7
L787141	5.7	0.64	3.6	0.50	10.4	13.3	4	0.4	67	114	4.3
L787142	8.1	1.23	7.8	1.17	13.4	10.8	3	0.4	29	75.8	12.4
L787143	9.9	1.45	9.7	1.37	16.0	18.7	3	0.6	53	96.2	17.9
L787144	5.6	0.83	5.8	0.89	9.5	16.3	2	0.5	33	65.7	15.1
L787145	4.1	0.61	4.0	0.65	6.0	4.5	3	0.5	21	22.7	3.2
L787146	3.3	0.50	3.4	0.56	6.3	4.1	3	0.4	31	17.5	2.9
L787193	9.3	1.25	8.4	1.43	2.5	2.8	1	0.3	23	50.7	8.8
L787194	7.8	1.16	8.5	1.55	9.2	4.7	1	0.3	19	34.6	4.1
L787195	7.3	1.03	7.2	1.31	3.8	6.0	1	0.3	127	43.8	8.0
L787196	6.7	0.96	6.6	1.13	18.5	37.3	2	0.3	45	68.9	24.5

Analyte Symbol	Er	Tm	Yb	Lu	Hf	Ta	W	Tl	Pb	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.05	0.1	0.04	0.2	0.1	1	0.1	5	0.1	0.1
Method Code	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
L787197	8.1	1.07	6.7	1.06	7.5	11.9	2	0.3	25	42.7	6.2
L787198	3.4	0.52	3.8	0.67	6.1	4.9	2	0.5	19	19.3	2.5
L787199	3.1	0.48	3.4	0.56	10.4	8.9	4	0.5	31	29.1	6.0
L787200	16.4	1.62	8.1	0.93	9.0	17.0	3	0.1	137	312	8.4
L787201	5.8	0.90	6.2	0.94	9.2	8.2	1	0.5	25	35.5	4.3
L787202	14.1	1.51	7.7	0.89	2.2	0.6	< 1	< 0.1	25	21.2	2.7
L787203	12.4	1.38	6.6	0.73	1.1	1.1	< 1	< 0.1	24	31.0	2.8
L787204	10.7	1.25	6.7	0.84	2.1	1.2	< 1	0.2	30	27.2	4.8
L787205	7.7	0.96	5.5	0.77	5.3	4.6	< 1	0.6	21	25.9	3.8
L787206	10.4	1.85	14.8	2.42	38.0	24.2	2	0.7	42	92.4	29.6
L787207	4.4	0.69	5.0	0.79	9.6	8.9	2	0.6	26	51.5	4.3
L787208	7.1	0.93	5.7	0.85	8.7	6.4	2	0.5	26	52.6	5.0
L787209	11.0	1.64	10.9	1.57	26.5	24.0	2	0.8	28	70.6	15.9
L787382	4.4	0.65	4.3	0.67	18.1	11.5	2	0.4	26	22.7	5.2
L787383	4.3	0.59	4.0	0.64	8.2	9.3	3	0.5	28	21.9	4.3
L787384	20.6	2.60	15.1	2.10	8.6	10.4	1	0.2	20	107	7.2
L787385	3.5	0.52	3.4	0.57	6.4	6.6	4	0.5	25	21.5	4.5
L787386	3.7	0.56	3.6	0.56	7.8	7.6	5	0.5	26	21.2	4.5
L787398	7.7	1.17	8.4	1.35	9.6	8.9	3	0.4	18	30.0	3.8
L787399	16.7	2.63	18.4	3.03	9.6	12.5	3	0.2	15	33.0	4.7
L787400	0.3	< 0.05	0.3	0.04	2.4	< 0.1	< 1	< 0.1	< 5	0.6	0.2
L787401	22.8	3.45	23.2	3.54	4.2	4.3	2	0.2	14	48.9	6.4
L787402	13.2	1.87	12.4	1.97	3.2	9.5	3	0.4	20	68.8	10.0
L787403	7.6	1.06	7.3	1.20	8.7	8.1	3	0.5	24	34.7	5.2
L787404	5.7	0.91	6.7	1.12	12.7	11.0	3	0.7	29	34.2	5.4
L787405	8.4	1.09	6.9	1.04	5.8	4.3	3	0.6	35	48.0	6.0
L787406	9.1	1.30	8.5	1.28	12.4	11.2	4	0.6	29	31.4	4.5
L787407	5.3	0.76	4.8	0.75	8.1	7.0	6	0.5	33	16.2	2.2
L787408	4.5	0.65	4.2	0.65	6.8	5.6	3	0.6	38	10.7	1.7
L787409	4.0	0.54	3.6	0.61	4.4	3.9	2	0.6	30	12.3	1.7
L787410	12.3	1.61	9.7	1.42	6.4	6.7	2	0.4	30	49.9	5.1
L787412	15.6	1.79	10.2	1.36	0.8	0.2	< 1	< 0.1	13	57.7	0.3
L787413	14.5	1.73	9.7	1.31	0.6	0.1	< 1	< 0.1	24	94.5	0.3
L787414	15.5	1.52	7.6	0.86	8.0	15.6	3	< 0.1	125	291	7.8
L787415	16.0	1.95	11.4	1.46	0.5	0.2	< 1	< 0.1	22	32.1	0.3
L787416	19.6	2.28	12.1	1.53	0.5	0.1	< 1	< 0.1	37	38.8	0.4
L787417	5.8	0.70	3.9	0.56	0.8	0.3	2	< 0.1	7	14.9	0.3
L787418	4.9	0.62	3.7	0.50	0.9	0.2	< 1	< 0.1	6	14.3	0.3
L787419	6.1	0.72	3.8	0.44	1.1	5.2	< 1	< 0.1	8	59.0	0.5
L787420	1.8	0.22	1.4	0.16	1.1	2.9	< 1	< 0.1	7	7.3	0.1
L787421	8.3	0.97	4.9	0.62	2.4	5.4	< 1	< 0.1	8	143	2.4
L787422	0.3	< 0.05	0.3	0.05	2.4	< 0.1	< 1	< 0.1	< 5	0.6	0.4
L787423	3.6	0.59	4.9	0.97	10.1	5.0	< 1	0.4	21	19.8	3.0
L787424	4.4	0.67	5.3	0.99	9.3	4.4	1	0.4	26	19.1	2.7
L787425	15.4	1.99	11.7	1.77	2.8	4.9	< 1	0.4	33	118	14.3
L787426	6.2	0.87	5.9	0.94	5.6	4.8	< 1	0.4	40	42.9	6.7
L787427	8.3	1.09	7.0	1.12	5.4	4.8	1	0.3	25	65.5	6.0
L787428	16.8	2.14	12.9	1.96	3.6	8.2	1	0.3	28	126	10.0
L787446	2.7	0.38	2.6	0.43	5.0	4.2	2	0.3	34	12.1	5.3
L787447	2.5	0.36	2.4	0.41	5.4	3.8	2	0.3	27	12.4	2.7

Analyte Symbol	Er	Tm	Yb	Lu	Hf	Ta	W	Tl	Pb	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.05	0.1	0.04	0.2	0.1	1	0.1	5	0.1	0.1
Method Code	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
L787448	2.7	0.38	2.6	0.41	4.6	3.6	2	0.3	51	13.2	22.3
L787472	4.3	0.62	3.9	0.65	4.3	5.9	4	0.3	20	9.7	1.4
L787473	4.3	0.60	4.2	0.70	7.8	6.9	2	0.3	22	11.9	2.3
L787474	3.4	0.46	2.9	0.49	6.0	4.1	2	0.3	26	8.5	5.0
L787487	3.9	0.57	4.0	0.61	19.9	5.9	4	0.5	26	17.5	3.1
L787488	3.7	0.54	3.5	0.57	17.9	6.1	4	0.4	20	18.0	3.0
L787489	3.9	0.57	3.8	0.59	14.7	5.1	5	0.4	24	18.8	4.4
L787490	0.3	< 0.05	0.2	0.04	2.5	< 0.1	< 1	< 0.1	< 5	0.5	0.3
L787491	3.9	0.54	3.5	0.55	19.2	6.2	4	0.4	22	20.2	3.5
L787514	3.2	0.44	3.0	0.51	7.5	6.3	2	0.3	22	12.4	3.1
L787515	4.7	0.64	4.2	0.68	5.8	5.4	2	0.6	37	18.8	1.2
L787516	3.8	0.53	3.6	0.57	6.1	5.5	2	0.3	20	12.2	1.2
L787517	5.0	0.68	4.8	0.78	13.1	8.9	3	0.3	54	38.3	3.1
L787518	2.0	0.28	2.0	0.34	1.7	1.4	< 1	0.3	14	6.5	0.9
L787519	2.2	0.31	2.2	0.37	1.6	1.0	< 1	0.3	9	6.4	0.6
L787520	3.0	0.43	2.8	0.47	2.7	2.8	2	0.3	18	9.3	1.9
L787522	15.7	1.46	7.4	0.85	10.3	19.1	3	< 0.1	128	300	8.0
L787523	7.2	1.08	7.5	1.21	15.5	9.8	2	0.5	27	25.8	5.9
L787524	4.8	0.73	5.1	0.83	10.9	3.4	< 1	0.7	42	15.0	2.9
L787525	7.4	0.97	6.7	1.08	8.0	3.6	2	0.6	43	33.7	4.0
L787526	4.7	0.68	4.9	0.87	6.9	3.6	1	0.7	33	17.3	2.2
L787527	4.4	0.63	4.5	0.83	6.1	2.7	2	0.7	23	15.5	2.1
L787528	4.7	0.67	4.7	0.82	4.6	2.0	3	0.6	23	21.0	2.8
L787529	9.6	1.34	8.6	1.50	7.4	3.0	2	0.7	26	36.6	4.0
L787530	0.3	< 0.05	0.2	< 0.04	2.3	< 0.1	< 1	< 0.1	< 5	0.5	0.2
L787531	9.3	1.32	8.2	1.33	6.1	3.3	1	0.6	23	41.8	3.7
L787532	5.8	0.88	5.8	1.09	10.6	5.8	2	0.6	21	12.6	3.3
L787533	6.9	0.98	6.5	1.01	7.5	4.3	1	0.5	22	24.8	3.4
L787534	8.3	1.15	7.9	1.21	9.8	6.8	2	0.5	19	31.4	4.0
L787535	7.2	1.01	6.8	1.08	8.0	4.2	8	0.5	17	22.1	3.0
L787536	8.6	1.23	8.0	1.21	9.4	6.0	4	0.5	22	25.1	4.2
L787537	12.2	1.72	11.0	1.69	16.9	12.3	2	0.5	23	52.9	10.0
L787538	20.3	2.83	17.6	2.68	26.1	12.4	2	0.6	33	127	9.1
L787539	18.2	2.56	16.7	2.56	26.6	16.4	2	0.4	18	73.3	10.4
L787540	5.8	0.68	3.8	0.55	10.6	13.4	4	0.4	68	120	4.3
L787541	10.3	1.50	9.9	1.57	21.0	12.8	1	0.4	7	35.9	8.7
L787542	7.5	1.03	6.3	0.94	11.8	6.2	1	0.5	10	25.2	4.5
L787543	7.8	1.07	7.4	1.16	19.8	7.7	2	0.5	10	28.6	6.8
L787544	10.0	1.68	12.9	2.30	69.2	16.8	2	0.5	22	25.3	15.6
L787545	13.8	1.92	12.5	2.03	16.8	11.2	3	0.4	18	47.3	6.7
L787565	8.6	1.31	9.0	1.45	18.8	15.5	1	0.6	38	22.4	5.7
L787566	20.5	2.60	15.2	2.13	10.9	7.5	1	< 0.1	29	25.2	6.2
L787567	16.5	2.17	13.3	1.94	13.9	9.0	2	0.3	25	24.6	6.7
L787568	9.0	1.23	8.1	1.19	13.4	7.9	2	0.3	18	16.0	4.2
L787569	11.6	1.56	9.4	1.33	11.8	7.8	< 1	0.4	18	19.9	5.3
L787570	0.3	< 0.05	0.3	0.05	2.2	< 0.1	< 1	< 0.1	< 5	0.5	0.4
L787571	6.2	0.90	5.9	0.94	12.7	8.9	< 1	0.7	11	5.8	1.2
L787572	28.1	3.80	23.2	3.27	15.0	10.9	1	0.3	25	41.0	12.4
L787573	4.0	0.62	4.3	0.75	12.0	11.0	2	1.2	31	19.8	5.4
L787574	9.1	1.41	9.7	1.56	15.9	11.4	2	2.9	284	20.2	4.4

Analyte Symbol	Er	Tm	Yb	Lu	Hf	Ta	W	Tl	Pb	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.05	0.1	0.04	0.2	0.1	1	0.1	5	0.1	0.1
Method Code	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
L787575	7.8	1.11	7.4	1.18	12.4	8.3	3	1.0	31	27.7	3.2
L787576	8.7	1.27	8.2	1.30	14.6	11.3	3	0.5	20	25.6	3.7
L787577	8.0	1.15	7.6	1.19	13.5	10.7	2	0.4	20	18.2	2.7
L787621	13.4	1.77	10.4	1.48	10.9	8.1	4	0.3	17	39.6	5.3
L787622	5.7	0.65	3.8	0.49	10.8	13.4	4	0.4	69	121	4.2
L787623	8.5	1.35	9.6	1.68	20.4	13.4	2	0.3	10	56.0	7.6
L787666	3.1	0.46	3.0	0.53	5.2	4.1	1	0.3	18	8.7	2.2
L787667	3.0	0.43	2.9	0.51	3.7	2.0	1	0.3	30	8.9	1.4
L787668	3.4	0.48	3.4	0.58	3.6	2.7	1	0.2	13	8.6	1.5
L787669	5.6	0.75	4.9	0.85	4.0	4.7	< 1	0.1	7	7.7	1.1
L787715	5.9	0.75	4.5	0.68	3.4	4.9	< 1	0.1	5	6.2	1.1
L787716	0.3	< 0.05	0.3	0.06	2.4	< 0.1	< 1	< 0.1	< 5	0.6	0.4
L787717	3.0	0.42	2.7	0.47	7.2	5.2	2	0.1	15	16.8	2.0
L787718	2.9	0.39	2.5	0.41	2.5	2.7	< 1	< 0.1	9	6.4	1.0
L787719	5.4	0.67	4.1	0.64	3.3	4.9	< 1	0.1	7	7.7	1.2
L787720	5.2	0.68	4.1	0.61	3.1	5.0	1	0.2	7	7.1	1.1
L787733	2.8	0.38	2.4	0.40	4.5	3.5	1	0.3	16	15.8	1.6
L787734	2.9	0.40	2.6	0.40	4.3	3.7	2	0.3	16	20.5	2.3
L787735	2.8	0.42	2.8	0.43	5.4	3.7	2	0.3	22	17.0	2.7
L787737	5.4	0.75	5.1	0.77	8.2	5.6	3	0.3	19	27.0	3.1
L787738	14.8	2.36	16.4	2.54	73.5	45.2	4	0.2	13	65.1	23.8
L787739	54.3	8.33	53.2	7.48	101	72.5	4	0.3	13	81.0	30.7
L787740	21.0	2.98	18.9	2.89	29.8	22.7	2	0.3	15	58.0	9.0
L787741	11.1	1.52	9.6	1.48	15.7	11.2	2	0.4	28	54.7	6.2
L787742	9.9	1.30	8.3	1.32	10.3	10.2	1	0.3	20	50.7	4.1
L787743	10.6	1.36	8.1	1.24	8.1	7.9	< 1	0.3	25	42.4	3.5
L787744	13.3	1.74	11.0	1.68	11.2	7.7	4	0.3	25	45.0	5.3
L787745	8.5	1.18	7.4	1.24	6.4	5.0	1	0.2	15	27.3	2.7
L787746	7.9	1.10	7.0	1.14	8.7	7.3	1	0.3	21	32.5	4.0
L787747	15.2	1.47	7.2	0.85	7.4	14.3	2	< 0.1	121	295	7.9

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.005	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	GRAV	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
NIST 694 Meas	11.30	1.89	0.76	0.011	0.34	42.82	0.90	0.54	0.116	31.65					1645								
NIST 694 Cert	11.2	1.80	0.790	0.0116	0.330	43.6	0.860	0.510	0.110	30.2					1740								
NCS DC71305 (GBW 07113) Meas	72.10	13.02	3.34	0.144	0.14	0.58	2.50	5.42	0.282	0.04			5	4	< 5								
NCS DC71305 (GBW 07113) Cert	72.8	13.0	3.21	0.140	0.160	0.590	2.57	5.43	0.300	0.0500			5.00	4.00	5.00								
NIST 696 Meas	3.83	54.01	8.68	< 0.005	0.02	0.02		< 0.01	2.616	0.04					392								
NIST 696 Cert	3.79	54.5	8.70	0.004	0.01	0.02		0.009	2.64	0.05					403								
ZW-C Meas																60				960	103		
ZW-C Cert																56.0				1050	99		
NCS DC86316 Meas																							
NCS DC86316 Cert																							
OREAS 101b (Fusion) Meas																	44	< 20	390				
OREAS 101b (Fusion) Cert																	47	9	420				
NCS DC86318 Meas																							
NCS DC86318 Cert																							
USZ-25-2006 /RARE-EARTH ORE CGL 111 Meas																		70		630			
USZ-25-2006 /RARE-EARTH ORE CGL 111 Cert																		70.8		600			
USZ-44-2007 /RARE-EARTH ORE CGL 126 Meas																				550	62		42
USZ-44-2007 /RARE-EARTH ORE CGL 126 Cert																				534	64		43.70
DNC-1a Meas	47.91	18.62	9.88	0.149	10.00	11.49	1.93	0.22	0.484	0.06			31		157								
DNC-1a Cert	47.15	18.34	9.97	0.150	10.13	11.49	1.890	0.234	0.480	0.07			31		148								
BHVO-2 Meas	50.67	13.70	12.42		7.06	11.56	2.26	0.50	2.791	0.28			31		334								
BHVO-2 Cert	49.9	13.5	12.3		7.23	11.4	2.22	0.52	2.73	0.27			32		317								
USZ-42-2006 /RARE-EARTH ORE CGL 124 Meas																				460			217
USZ-42-2006 /RARE-EARTH ORE CGL 124 Cert																				469			224
REE-1 Meas																290	1	20	80				114
REE-1 Cert																277	1.58	24.7	79.7				124
NCS DC 73334 (GBW 07708) Meas																490	508	550	490	540			458

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.005	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	GRAV	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
NCS DC 73334 (GBW 07708) Cert																500	500	500	500	500			500
OREAS 180 (Borate Peroxide Fusion) Meas																8520	239	3190	90		11		
OREAS 180 (Borate Peroxide Fusion) Cert																8686	253	3040	90		12		
OREAS 908 (Borate Peroxide) Meas																	88			260	45		
OREAS 908 (Borate Peroxide) Cert																	93			290	45		
OREAS 752 (Peroxide Fusion) Meas																			40	90	18	6	
OREAS 752 (Peroxide Fusion) Cert																			40	100	18	6	
SY-5 (Fusion ICP) Meas	49.48	13.87		0.127	3.11	7.02	4.03	4.05	1.774	1.94			12	5	138		24		40		22		
SY-5 (Fusion ICP) Cert	50.1	14.35		0.1283	3.235	7.12	4.15	4.170	1.777	2.04			12.37	4.62	131.8		23		40		21.6		
USZ 50-2009/ RARE-EARTH ORE CGL 011 Meas	57.48	16.04	8.04	0.119	3.80	6.94	3.38	1.60	1.313				21		220								
USZ 50-2009/ RARE-EARTH ORE CGL 011 Cert	57.75	15.97	8.10	0.12	3.81	6.99	3.33	1.55	1.34				20.46		213								
L787060 Orig	61.08	17.05	4.38	0.090	0.19	1.73	6.25	5.81	0.306	0.04		98.05	< 1	4	< 5	< 20	1	< 20	< 10	80	33	1	< 5
L787060 Dup	61.98	17.46	4.41	0.092	0.20	1.74	6.25	5.87	0.306	0.04		99.47	1	4	< 5	< 20	1	< 20	< 10	80	33	1	< 5
L787132 Orig	60.44	16.82	5.58	0.176	0.33	2.87	5.61	5.67	0.478	0.13		98.74	9	3	< 5	< 20	1	< 20	10	90	23	2	< 5
L787132 Dup	62.07	16.93	5.62	0.177	0.34	2.88	5.66	5.71	0.484	0.14		100.7	9	3	< 5	< 20	1	< 20	10	100	24	1	< 5
L787196 Orig	54.40	12.28	10.53	0.567	0.93	10.64	4.42	3.62	0.272	0.66	1.04	99.36	6	7	17	< 20	6	< 20	20	220	24	2	< 5
L787196 Split Prep dup	54.97	12.31	10.58	0.576	0.94	10.80	4.37	3.55	0.279	0.72	1.10	100.2	6	7	18	< 20	6	< 20	20	210	24	2	< 5
L787204 Orig	10.37	1.70	8.45	0.769	0.49	42.99	0.60	0.67	0.054	1.43		98.12	1	3	7	< 20	2	< 20	20	100	12	< 1	< 5
L787204 Dup	10.43	1.69	8.25	0.764	0.50	42.80	0.60	0.66	0.054	1.38		97.72	2	3	8	< 20	2	< 20	20	100	12	< 1	< 5
L787404 Orig	60.88	14.16	7.82	0.306	0.56	5.90	4.34	5.41	0.265	0.30		100.3	8	6	10	< 20	3	< 20	< 10	130	27	2	< 5
L787404 Dup	60.92	14.10	7.78	0.305	0.56	5.88	4.33	5.41	0.261	0.31		100.2	8	6	9	< 20	3	< 20	30	130	28	2	< 5
L787447 Orig	60.34	16.60	4.93	0.191	0.51	2.84	6.22	4.82	0.563	0.13	0.76	97.90	7	3	9	< 20	2	< 20	< 10	100	26	1	< 5
L787447 Split Prep dup	60.23	17.09	4.92	0.190	0.52	2.79	6.17	4.83	0.579	0.14	0.80	98.26	7	3	9	< 20	2	< 20	< 10	100	26	1	< 5
L787448 Orig	59.62	17.05	4.97	0.199	0.48	2.94	6.23	4.81	0.631	0.16		97.86	7	2	9	< 20	2	< 20	10	120	26	1	< 5
L787448 Dup	60.04	16.69	4.95	0.200	0.48	2.94	6.15	4.75	0.616	0.17		97.74	7	2	9	< 20	2	< 20	10	120	25	1	< 5
L787523 Orig																< 20	1	< 20	< 10	160	28	2	< 5
L787523 Dup	60.07	15.10	8.19	0.257	0.34	2.64	5.78	5.19	0.646	0.14		99.31	13	5	6	< 20	1	< 20	< 10	160	28	2	< 5
L787569 Orig	44.15	11.96	7.40	1.817	0.53	26.95	3.10	2.01	0.569	0.03		100.6	16	16	< 5	< 20	2	< 20	30	200	22	1	< 5
L787569 Dup	43.42	11.70	7.21	1.788	0.53	26.47	3.05	1.98	0.559	0.03		98.82	15	16	< 5	< 20	1	< 20	< 10	160	22	1	< 5
L787574 Orig	55.94	12.69	9.92	1.213	0.77	8.27	3.81	5.29	0.610	0.14	0.70	99.35	14	17	< 5	< 20	2	< 20	60	610	26	2	< 5
L787574 Split Prep dup	55.62	12.70	9.84	1.206	0.76	8.24	3.79	5.28	0.606	0.14	0.69	98.88	14	18	< 5	< 20	2	< 20	70	600	25	1	< 5

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Cr	Co	Ni	Cu	Zn	Ga	Ge	As
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.005	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	20	1	20	10	30	1	1	5
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	GRAV	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
L787715 Orig	41.42	10.49	23.75	0.516	4.63	8.88	2.73	1.59	3.984	2.56		100.7	40	1	98	< 20	30	< 20	20	250	19	1	< 5
L787715 Dup	41.06	10.20	23.50	0.513	4.58	8.85	2.66	1.54	3.911	2.59		99.52	40	1	97	< 20	31	< 20	20	250	18	1	< 5
L787746 Orig	52.88	11.45	16.76	0.549	1.69	7.04	4.18	3.86	0.958	1.11	-0.08	100.4	24	3	20	< 20	9	< 20	30	250	20	2	< 5
L787746 Split Prep dup	53.43	11.41	16.60	0.544	1.67	6.98	4.17	3.87	0.952	1.10	-0.01	100.7	24	3	19	< 20	9	< 20	30	240	19	2	< 5
L787747 Orig	26.81	10.53	48.18	0.163	1.63	1.74	0.23	0.12	3.040	1.45		95.41	74	7	373	540	14	90	60	400	31	2	37
L787747 Dup	27.14	10.71	48.67	0.164	1.65	1.75	0.23	0.12	3.069	1.49		96.52	75	6	375	530	13	80	60	390	31	2	37
Method Blank	< 0.01	< 0.01	< 0.01	< 0.005	< 0.01	< 0.01	< 0.01	< 0.01	< 0.001	< 0.01		< 0.01	< 1	< 1	< 5	< 20	< 1	< 20	< 10	< 30	< 1	< 1	< 5

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	2	2	4	1		0.5	0.2	1	0.5	0.5	3	0.4	0.1	0.1	0.05	0.1	0.1	0.05	0.1	0.1	0.1	0.1
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
NIST 694 Meas																							
NIST 694 Cert																							
NCS DC71305 (GBW 07113) Meas		43	46	432								499											
NCS DC71305 (GBW 07113) Cert		43.0	43.0	403								506											
NIST 696 Meas				1028																			
NIST 696 Cert				1037																			
ZW-C Meas	8780				215	4			1280	4.3	265			30.0	101	10.0	26.0	7.0		4.8			2.0
ZW-C Cert	8500				198	4.30			1300	4.2	260			30.0	97	9.5	25.0	6.6		4.70			2.0
NCS DC86316 Meas																							
NCS DC86316 Cert																							
OREAS 101b (Fusion) Meas														759	1330	122	375	48.2	7.61		5.2	30.5	6.1
OREAS 101b (Fusion) Cert														789	1331	127	378	48	7.77		5.37	32.1	6.34
NCS DC86318 Meas	382										11.4			1900	404	718	3210	1650	18.5	2240	482	3100	579
NCS DC86318 Cert	369.42										11.88			1960	432	737	3429	1725	18.91	2168	468	3224	560
USZ-25-2006 /RARE-EARTH ORE CGL 111 Meas														18100	29100	2680	8360	849	198				
USZ-25-2006 /RARE-EARTH ORE CGL 111 Cert														19300	29000	2800	8800	900	211.00				
USZ-44-2007 /RARE-EARTH ORE CGL 126 Meas	616								116					446	1070	123	453	125	8.10				
USZ-44-2007 /RARE-EARTH ORE CGL 126 Cert	641								126					434	1000	122	434	120	8.3				
DNC-1a Meas		146	17	36								106											
DNC-1a Cert		144	18.0	38.0								118											
BHVO-2 Meas		392	24	167								134											
BHVO-2 Cert		389	26	172								130											
USZ-42-2006 /RARE-EARTH ORE CGL 124 Meas						36								20600	28200	2360	6430	512	86.0				7.6
USZ-42-2006 /RARE-EARTH ORE CGL 124 Cert						34.40								21100	27600	2300	6500	539	87.22				7.86
REE-1 Meas	1050				3750				482		1.0			1700	4040	448	1500	402	24.5	461	112	881	211
REE-1 Cert	1050				4050				498		1.07			1661	3960	435	1456	381	23.5	433	106	847	208
NCS DC 73334 (GBW 07708) Meas					456	48				45.9			47.6	504	493								
NCS DC 73334					500	50.0				50.0			50.0	500	500								

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.1	0.1	0.05	0.1	0.1	0.05	0.1	0.1	0.1	0.1	
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	
(GBW 07708) Cert																								
OREAS 180 (Borate Peroxide Fusion) Meas	7				2					1.6				4.8	11.5	1.34	5.7	1.4	0.40				0.3	
OREAS 180 (Borate Peroxide Fusion) Cert	6				2					1.5				4.8	11.7	1.45	5.7	1.5	0.43				0.3	
OREAS 908 (Borate Peroxide) Meas	96				15	9			26	5.2	4.8			42.2	38.0	74.0	8.40	31.8	6.8	1.75	5.2	0.8	3.9	0.6
OREAS 908 (Borate Peroxide) Cert	97				14	9			26	5.2	5.0			45.0	38.5	74.0	8.56	32.8	6.5	1.82	5.3	0.7	3.7	0.6
OREAS 752 (Peroxide Fusion) Meas	691				49						69.7			2.0	3.7	0.43	1.5	0.4		0.3	< 0.1	0.4	< 0.1	
OREAS 752 (Peroxide Fusion) Cert	659				54.0000						66.0			1.9	3.5	0.43	1.5	0.4		0.4	0.08	0.4	0.05	
SY-5 (Fusion ICP) Meas	79	2955	53		22	9					0.6	6196		232	470	55.0	211	31.7	7.71	18.1	2.3	11.4	2.0	
SY-5 (Fusion ICP) Cert	76.9	3100	56.3		22.2	8.93					0.612	6480		225	459	55.3	208.1	31.1	7.64	19.8	2.26	11.33	2.04	
USZ 50-2009/ RARE-EARTH ORE CGL 011 Meas		475	22	194								416												
USZ 50-2009/ RARE-EARTH ORE CGL 011 Cert		454	23.62	191								425												
L787060 Orig	203	313	97	4889	132	5	< 0.5	< 0.2	3	< 0.5	0.6	425	< 0.4	422	694	59.5	179	23.4	2.63	16.8	2.7	17.2	3.5	
L787060 Dup	207	332	99	4973	146	5	< 0.5	< 0.2	4	< 0.5	0.6	431	< 0.4	442	723	62.7	191	24.5	2.83	17.5	2.8	18.2	3.8	
L787132 Orig	110	427	35	252	103	6	< 0.5	< 0.2	2	< 0.5	1.0	1408	< 0.4	112	208	21.4	76.5	12.0	3.47	8.3	1.3	6.9	1.3	
L787132 Dup	109	434	35	263	106	5	< 0.5	< 0.2	2	< 0.5	1.1	1419	< 0.4	110	204	21.0	75.6	11.4	3.45	8.0	1.2	7.0	1.3	
L787196 Orig	107	2089	56	1329	582	4	0.6	< 0.2	5	< 0.5	2.6	1414	< 0.4	264	515	56.2	202	30.6	5.57	18.2	2.5	13.5	2.4	
L787196 Split Prep dup	106	2095	60	1282	615	4	0.6	< 0.2	5	< 0.5	2.7	1368	< 0.4	284	552	60.5	216	32.7	5.85	19.7	2.7	14.4	2.6	
L787204 Orig	43	5001	96	138	710	< 2	< 0.5	< 0.2	3	< 0.5	0.8	1070	< 0.4	586	1170	133	507	77.4	20.3	44.0	5.7	27.9	4.5	
L787204 Dup	42	5001	95	141	509	< 2	< 0.5	< 0.2	3	< 0.5	0.8	1067	< 0.4	575	1150	130	497	76.8	19.9	43.8	5.6	27.6	4.4	
L787404 Orig	218	1811	49	477	140	3	< 0.5	< 0.2	4	< 0.5	2.6	1542	< 0.4	145	268	29.0	105	17.1	3.36	11.4	1.7	10.0	1.9	
L787404 Dup	216	1811	48	489	145	3	< 0.5	< 0.2	4	< 0.5	2.6	1531	< 0.4	145	269	29.1	105	17.2	3.38	11.6	1.7	10.1	1.9	
L787447 Orig	102	540	23	310	109	9	< 0.5	< 0.2	1	< 0.5	0.9	2035	< 0.4	137	217	20.9	69.1	9.7	4.94	6.0	0.9	4.7	0.9	
L787447 Split Prep dup	101	552	24	290	107	10	< 0.5	< 0.2	1	< 0.5	0.9	2023	< 0.4	137	218	20.8	68.7	9.5	4.87	6.0	0.9	4.7	0.9	
L787448 Orig	94	566	26	227	108	10	< 0.5	< 0.2	1	< 0.5	0.8	2166	< 0.4	150	235	22.4	74.0	10.3	5.29	6.4	0.9	5.0	0.9	
L787448 Dup	93	551	25	224	119	10	< 0.5	< 0.2	1	< 0.5	0.8	2150	< 0.4	147	235	22.2	73.3	10.4	5.30	6.2	0.9	4.9	0.9	
L787523 Orig	170				195	9	< 0.5	< 0.2	2	< 0.5	1.1		< 0.4	292	522	53.0	182	26.5	3.80	16.4	2.3	12.8	2.4	
L787523 Dup	171	245	65	949	204	10	< 0.5	< 0.2	1	< 0.5	1.1	1152	< 0.4	290	514	52.3	181	26.4	3.77	16.6	2.4	12.5	2.4	
L787569 Orig	65	2688	159	569	153	< 2	< 0.5	0.2	2	< 0.5	0.7	1505	< 0.4	1490	2020	164	495	59.2	13.3	34.1	4.4	23.4	4.2	
L787569 Dup	65	2631	156	560	159	< 2	< 0.5	0.2	2	< 0.5	0.8	1454	< 0.4	1510	2040	164	497	58.9	13.1	34.4	4.5	23.1	4.3	
L787574 Orig	261	2839	87	769	173	6	3.4	0.2	4	< 0.5	1.9	2456	0.8	231	335	32.8	119	22.2	5.05	17.1	2.8	15.6	3.0	
L787574 Split Prep dup	257	2820	88	758	178	6	3.6	0.2	4	< 0.5	2.0	2456	1.0	238	341	33.8	120	22.8	5.03	17.1	2.7	15.5	3.1	
L787715 Orig	36	702	59	151	96	4	< 0.5	< 0.2	1	< 0.5	0.6	1426	< 0.4	139	298	36.3	150	25.8	6.16	18.0	2.5	12.5	2.2	

Analyte Symbol	Rb	Sr	Y	Zr	Nb	Mo	Ag	In	Sn	Sb	Cs	Ba	Bi	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	2	2	2	4	1	2	0.5	0.2	1	0.5	0.5	3	0.4	0.1	0.1	0.05	0.1	0.1	0.05	0.1	0.1	0.1	0.1
Method Code	FUS-MS	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
L787715 Dup	37	705	58	153	100	4	< 0.5	< 0.2	1	< 0.5	0.6	1395	< 0.4	142	302	36.7	154	25.9	6.24	18.7	2.5	12.8	2.3
L787746 Orig	97	472	75	411	142	8	< 0.5	0.2	2	< 0.5	1.0	2047	< 0.4	256	502	56.9	217	34.5	5.95	22.5	3.1	16.2	3.0
L787746 Split Prep dup	96	467	74	412	140	6	< 0.5	0.2	2	< 0.5	1.0	2041	< 0.4	248	492	55.5	212	33.5	5.76	21.9	3.0	15.8	2.9
L787747 Orig	6	926	172	391	923	54	1.2	0.9	23	2.3	< 0.5	1166	3.0	4830	6550	972	3580	530	115	209	19.5	67.4	8.1
L787747 Dup	6	955	175	360	806	53	1.2	0.9	22	1.9	< 0.5	1175	3.1	4820	6420	971	3600	530	116	211	19.4	67.5	8.3
Method Blank	< 2	< 2	< 2	< 4	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	< 3	< 0.4	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1

Analyte Symbol	Er	Tm	Yb	Lu	Hf	Ta	W	Tl	Pb	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.05	0.1	0.04	0.2	0.1	1	0.1	5	0.1	0.1
Method Code	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
NIST 694 Meas											
NIST 694 Cert											
NCS DC71305 (GBW 07113) Meas											
NCS DC71305 (GBW 07113) Cert											
NIST 696 Meas											
NIST 696 Cert											
ZW-C Meas		1.70	14.7	2.32	9.8	81.7	323	31.5		45.8	19.0
ZW-C Cert		1.60	14	2.20	9.7	82	320	34		43	20.0
NCS DC86316 Meas					756		5			203	
NCS DC86316 Cert					712		5.01			202	
OREAS 101b (Fusion) Meas	18.2	2.64	17.1	2.52						36.4	391
OREAS 101b (Fusion) Cert	18.7	2.66	17.6	2.58						37.1	396
NCS DC86318 Meas	1710	262	1730	245						67.9	
NCS DC86318 Cert	1750	271	1844	264						67.0	
USZ-25-2006 /RARE-EARTH ORE CGL 111 Meas			51.4								
USZ-25-2006 /RARE-EARTH ORE CGL 111 Cert			54.5								
USZ-44-2007 /RARE-EARTH ORE CGL 126 Meas			137		396	121				213	57.5
USZ-44-2007 /RARE-EARTH ORE CGL 126 Cert			123		400	123				202	57
DNC-1a Meas											
DNC-1a Cert											
BHVO-2 Meas											
BHVO-2 Cert											
USZ-42-2006 /RARE-EARTH ORE CGL 124 Meas			17.5						1690	982	
USZ-42-2006 /RARE-EARTH ORE CGL 124 Cert			17.85						1600	946	
REE-1 Meas	719	110	695		477						145
REE-1 Cert	701	106	678		479						137
NCS DC 73334 (GBW 07708) Meas			47.5				47		489		
NCS DC 73334			50.0				50.0		500		

Analyte Symbol	Er	Tm	Yb	Lu	Hf	Ta	W	Tl	Pb	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.05	0.1	0.04	0.2	0.1	1	0.1	5	0.1	0.1
Method Code	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
(GBW 07708) Cert											
OREAS 180 (Borate Peroxide Fusion) Meas			0.9					3		3.4	1.1
OREAS 180 (Borate Peroxide Fusion) Cert			1.0					4		3.5	1.2
OREAS 908 (Borate Peroxide) Meas					5.7	1.0		0.6		11.2	3.8
OREAS 908 (Borate Peroxide) Cert					6.1	1.0		0.6		10.9	3.8
OREAS 752 (Peroxide Fusion) Meas	0.1					44.0	5	3.9		1.0	8.6
OREAS 752 (Peroxide Fusion) Cert	0.1					41.0	5.11000 0	3.84000 0		0.97	8.4
SY-5 (Fusion ICP) Meas	5.3	0.73	4.7	0.72		1.0		0.6		26.0	5.4
SY-5 (Fusion ICP) Cert	5.38	0.725	4.64	0.702		1.06		0.614		25.2	5.09
USZ 50-2009/ RARE-EARTH ORE CGL 011 Meas											
USZ 50-2009/ RARE-EARTH ORE CGL 011 Cert											
L787060 Orig	11.1	1.74	11.5	1.83	77.9	7.8	2	0.4	24	88.9	18.5
L787060 Dup	11.7	1.82	12.4	1.91	84.1	8.5	2	0.4	27	93.1	19.8
L787132 Orig	3.7	0.52	3.4	0.52	5.4	4.7	2	0.4	19	17.0	3.0
L787132 Dup	3.5	0.50	3.3	0.50	5.4	4.7	2	0.4	19	16.4	2.9
L787196 Orig	6.7	0.96	6.6	1.13	18.5	37.3	2	0.3	45	68.9	24.5
L787196 Split Prep dup	7.3	1.04	6.9	1.16	18.2	35.9	2	0.3	43	72.8	24.7
L787204 Orig	10.8	1.27	6.7	0.85	2.2	1.3	< 1	0.2	31	27.4	4.8
L787204 Dup	10.5	1.22	6.7	0.82	2.1	1.0	< 1	0.2	30	27.0	4.8
L787404 Orig	5.7	0.90	6.6	1.11	12.3	11.0	3	0.7	28	35.2	5.3
L787404 Dup	5.8	0.92	6.8	1.13	13.0	11.0	3	0.7	30	33.1	5.5
L787447 Orig	2.5	0.36	2.4	0.41	5.4	3.8	2	0.3	27	12.4	2.7
L787447 Split Prep dup	2.5	0.36	2.5	0.40	5.3	3.7	2	0.3	27	12.9	2.6
L787448 Orig	2.8	0.39	2.6	0.41	4.6	3.6	2	0.3	53	13.3	21.6
L787448 Dup	2.6	0.37	2.5	0.41	4.5	3.6	2	0.3	48	13.1	22.9
L787523 Orig	7.1	1.08	7.5	1.21	15.2	9.7	2	0.6	28	25.7	5.8
L787523 Dup	7.3	1.08	7.5	1.21	15.9	9.9	2	0.5	27	25.9	6.0
L787569 Orig	11.6	1.55	9.5	1.31	11.9	7.7	< 1	0.4	23	19.9	5.3
L787569 Dup	11.7	1.57	9.2	1.35	11.8	7.8	< 1	0.4	13	19.9	5.2
L787574 Orig	9.1	1.41	9.7	1.56	15.9	11.4	2	2.9	284	20.2	4.4
L787574 Split Prep dup	9.5	1.42	9.7	1.53	15.8	11.3	1	2.9	279	20.5	4.3
L787715 Orig	5.8	0.72	4.4	0.68	3.4	4.9	< 1	0.1	6	6.2	1.0

Analyte Symbol	Er	Tm	Yb	Lu	Hf	Ta	W	Tl	Pb	Th	U
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.05	0.1	0.04	0.2	0.1	1	0.1	5	0.1	0.1
Method Code	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
L787715 Dup	6.0	0.77	4.5	0.69	3.4	5.0	< 1	0.1	5	6.2	1.1
L787746 Orig	7.9	1.10	7.0	1.14	8.7	7.3	1	0.3	21	32.5	4.0
L787746 Split Prep dup	7.8	1.06	6.9	1.14	8.5	7.0	1	0.3	19	30.9	3.9
L787747 Orig	15.1	1.46	7.2	0.83	7.7	15.2	2	< 0.1	121	293	7.9
L787747 Dup	15.4	1.48	7.3	0.86	7.0	13.3	2	< 0.1	121	297	7.9
Method Blank	< 0.1	< 0.05	< 0.1	< 0.04	< 0.2	< 0.1	< 1	< 0.1	< 5	< 0.1	< 0.1

Appendix V

QAQC

Quality Assurance / Quality Control (QA/QC)

Clay Howells Project

By: Jean-Philippe Arguin, P.Geo (Laurentia Exploration Inc.)

Date: November 20, 2025

Object

This report presents the analysis results of control samples from drilling work carried out on the Clay Howells Project. The analyses were performed by *Activation Laboratories Ltd.* (Actlabs) in Ancaster, Ontario. All samples were analyzed for rare earth elements (REEs) by ICP-OES/MS (8-REE Assay Package). Cerium, La, Nd, and Pr were used for monitoring the analyses.

Insertion rate

A total of 8 blanks and 8 certified reference materials with known grades (OREAS 460 and 463) were inserted among 164 core samples for an insertion rate of 8.89%. REE concentrations were provided from a lithium borate fusion with ICP-MS analysis (ME-MS81). QA/QC insertion rates are detailed in *Table 2*.

Table 1 : Insertion rates of blanks and certified reference materials

Control materials	Number	%*
Blank	8	4.44
OREAS 460	4	2.22
OREAS 463	4	2.22
Total	16	8.89

*Calculated from total rock and control samples

Certified values and standard deviations of certified reference materials

Table 3 shows the certified values and standard deviations of OREAS 460 and 463.

Table 2 : Certified values and standard deviations of CRMs

Certified reference materials	Ce (ppm)		La (ppm)		Nd (ppm)		Pr (ppm)		Y (ppm)	
	CV	1SD	CV	1SD	CV	1SD	CV	1SD	CV	1SD
OREAS 460	1798	72	1369	75	781	47	244	8	60	2.6
OREAS 463	6590	150	4966	139	3682	185	1004	43	180	8

CV, certified value; 1SD, one standard deviation

Blanks

The blank samples have very low REE contents, averaging 8.59 ppm Ce, 4.44 ppm La, 4.30 ppm Nd and 0.98 ppm Pr. No contamination is suspected, and the results are fully compliant with QA/QC requirements.

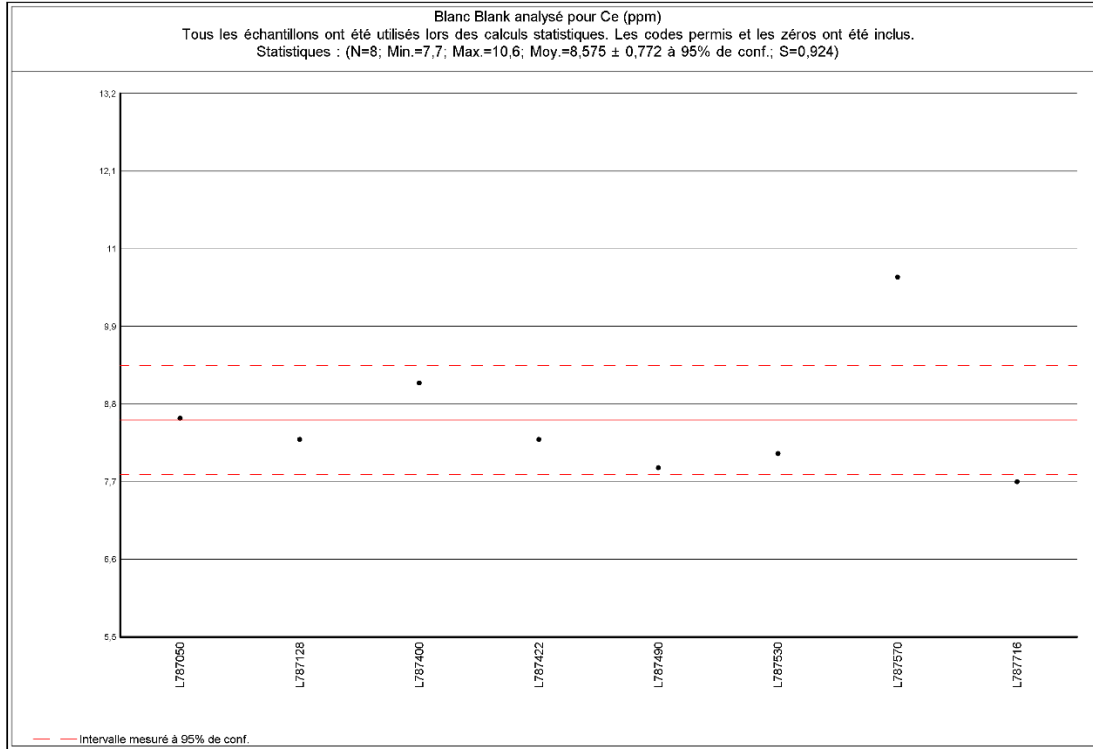


Figure 1 : Ce (ppm) in blanks (n=8)

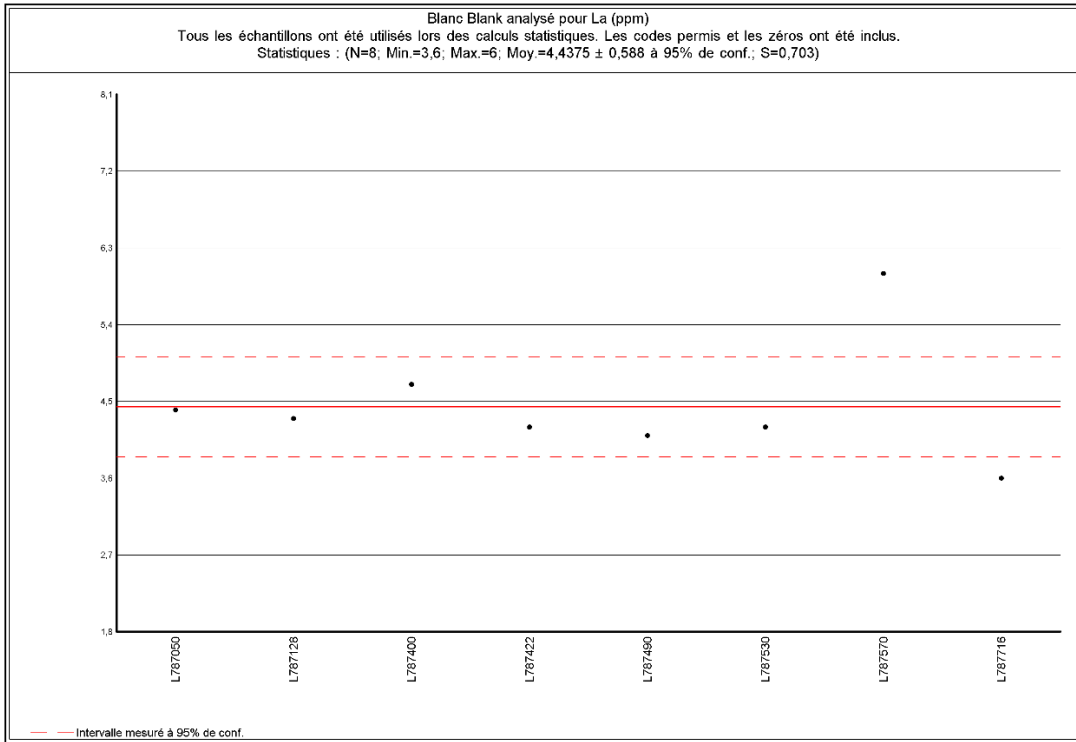


Figure 2 : La (ppm) in blanks (n=8)

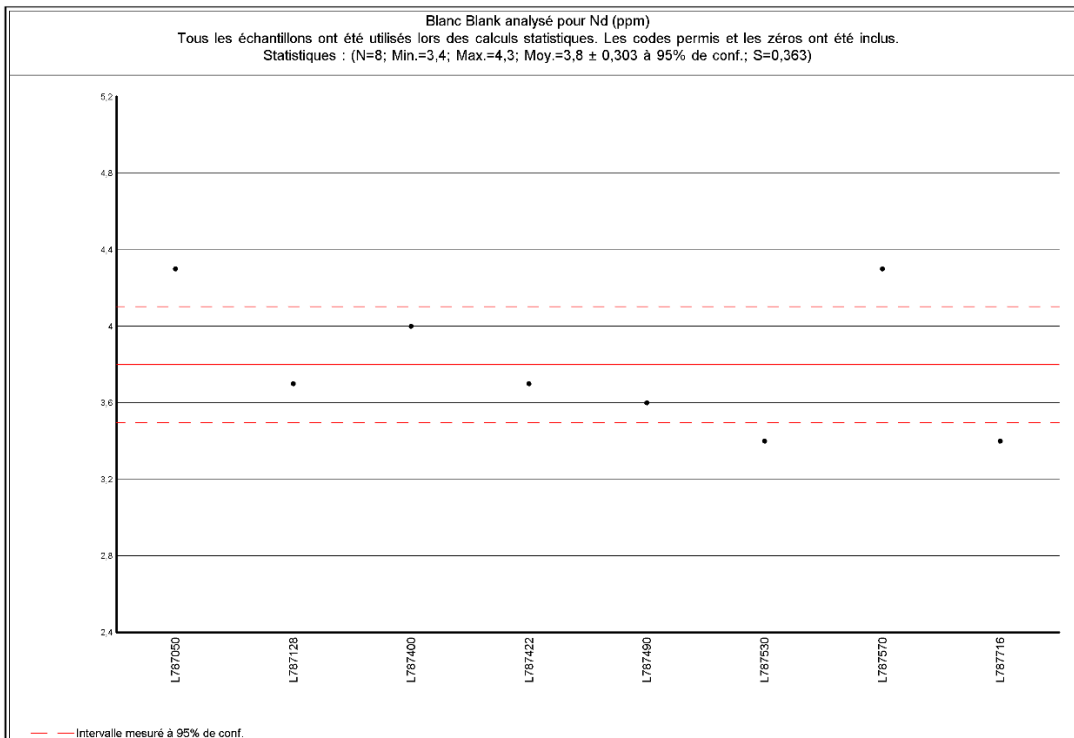


Figure 3 : Nd (ppm) in blanks (n=8)

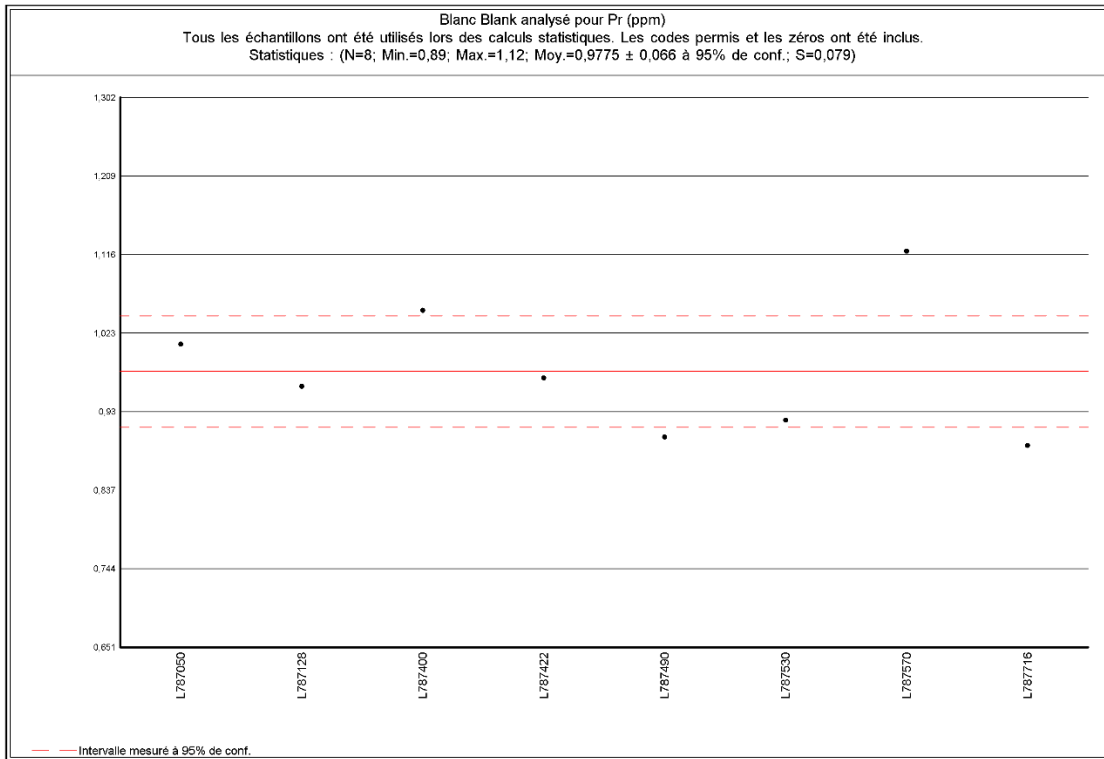


Figure 4 : Pr (ppm) in blanks (n=8)

OREAS 460

All samples of OREAS 460 yielded values that fully complied with QA/QC requirements, with Ce, La, Nd and Pr contents falling within the ranges of 1SD or 2SD.

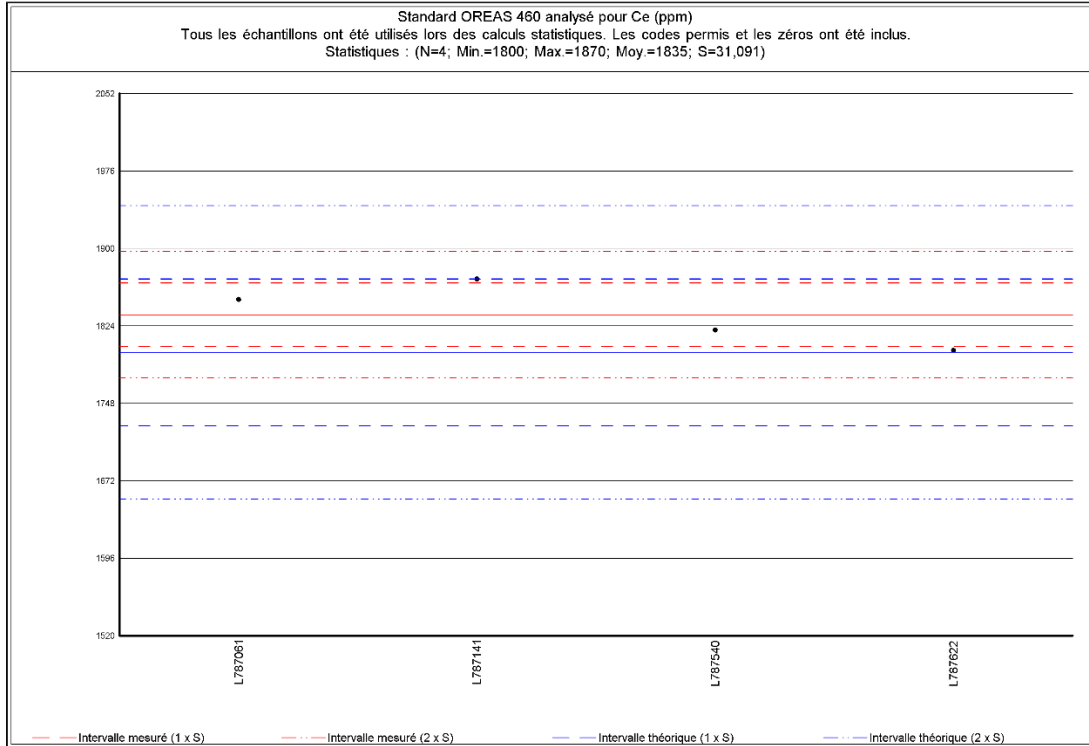


Figure 5 : Ce (ppm) in OREAS 460 (n=4)

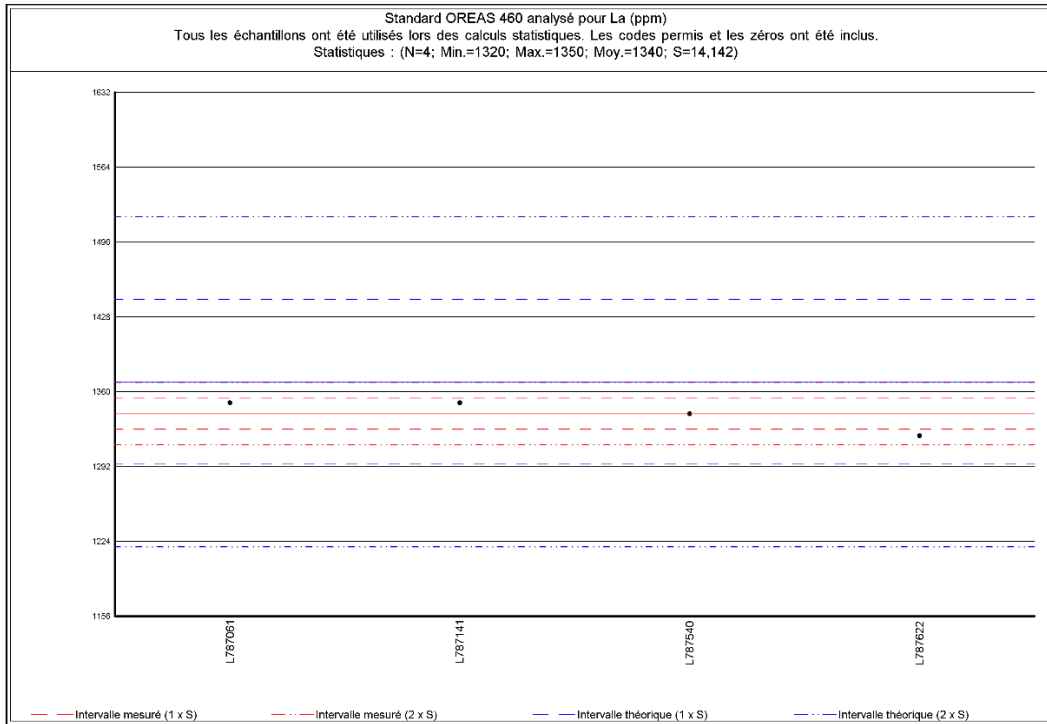


Figure 6 : La (ppm) in OREAS 460 (n=4)

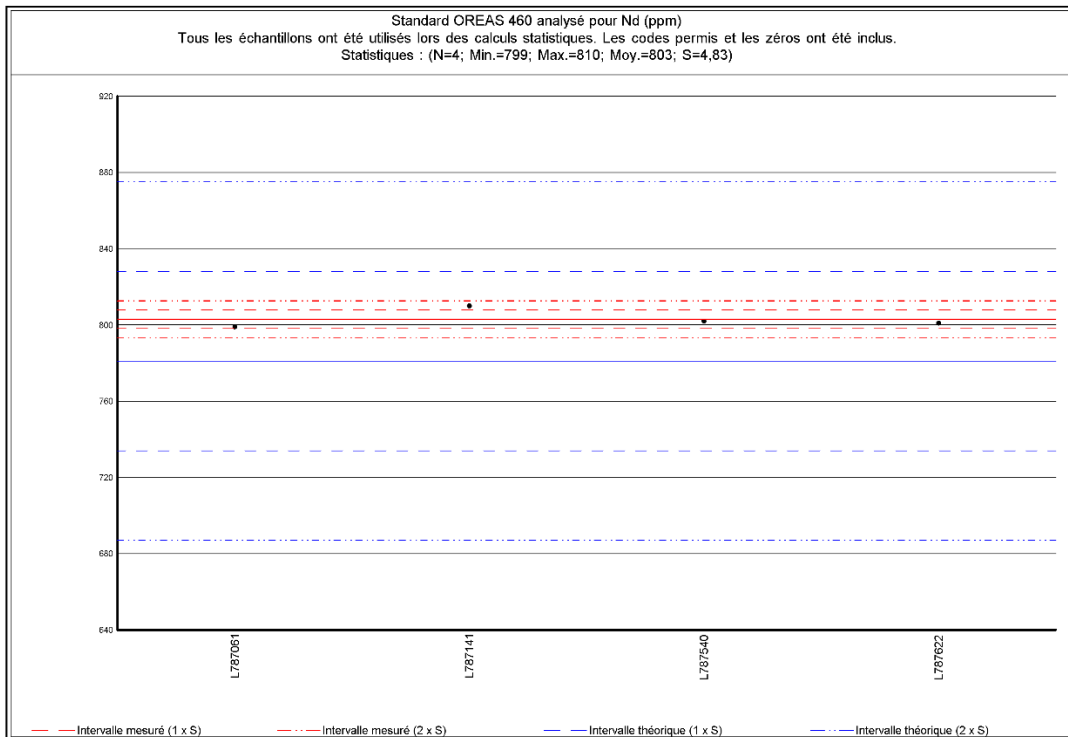


Figure 7 : Nd (ppm) in OREAS 460 (n=4)

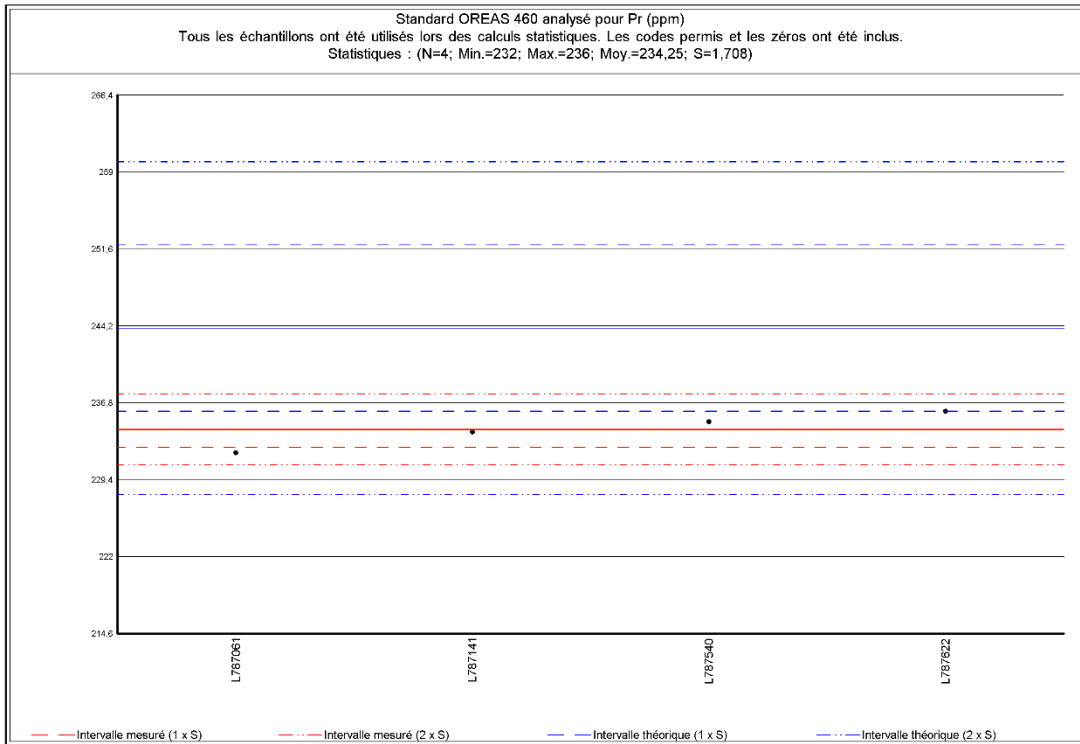


Figure 8 : Pr (ppm) in OREAS 460 (n=4)

OREAS 463

All samples of OREAS 463 yielded values that fully complied with QA/QC requirements, with Ce, La, Nd and Pr contents falling within the ranges of 1SD or 2SD.

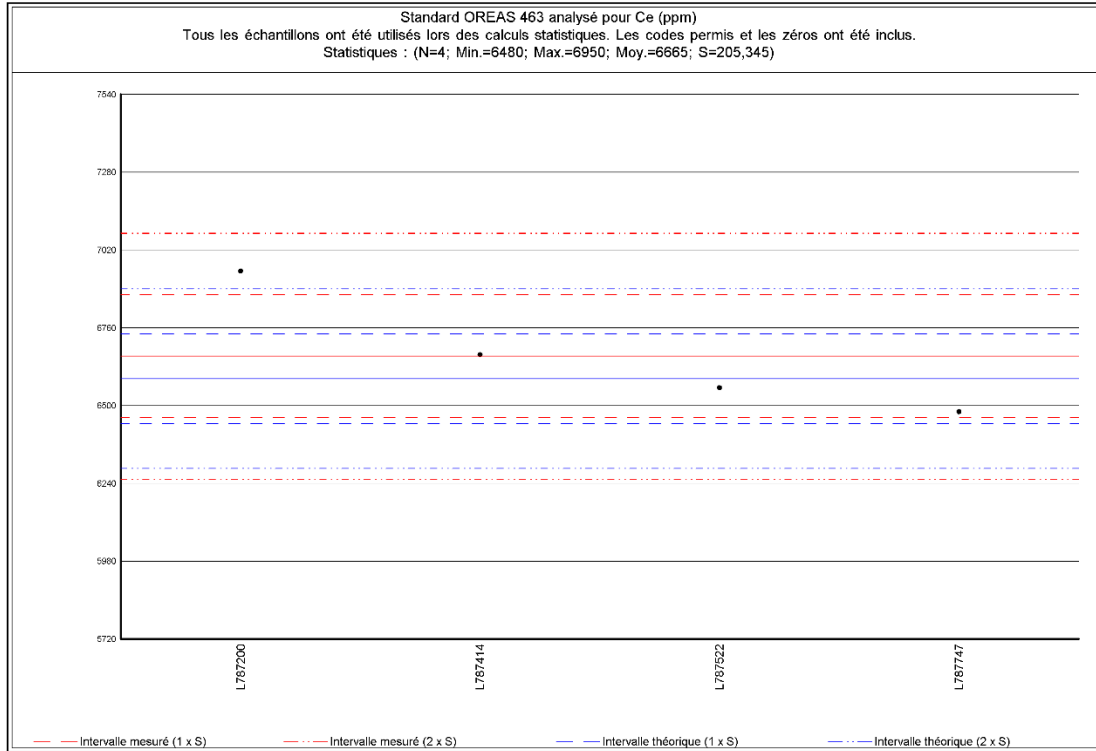


Figure 9 : Ce (ppm) in OREAS 463 (n=4)

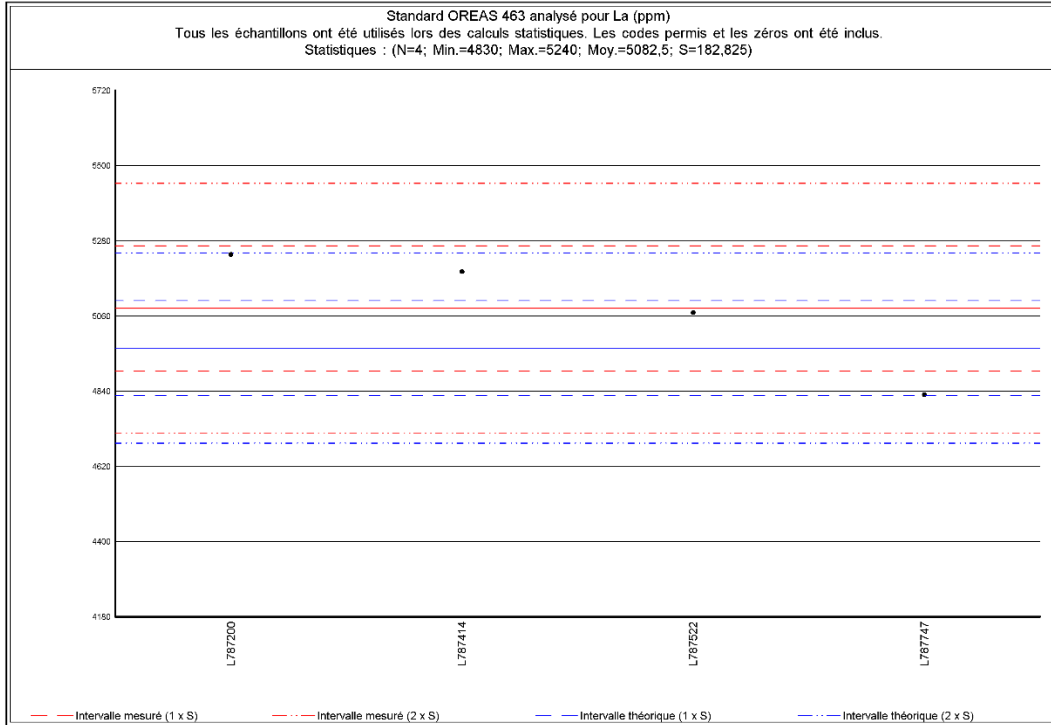


Figure 10 : La (ppm) in OREAS 463 (n=4)

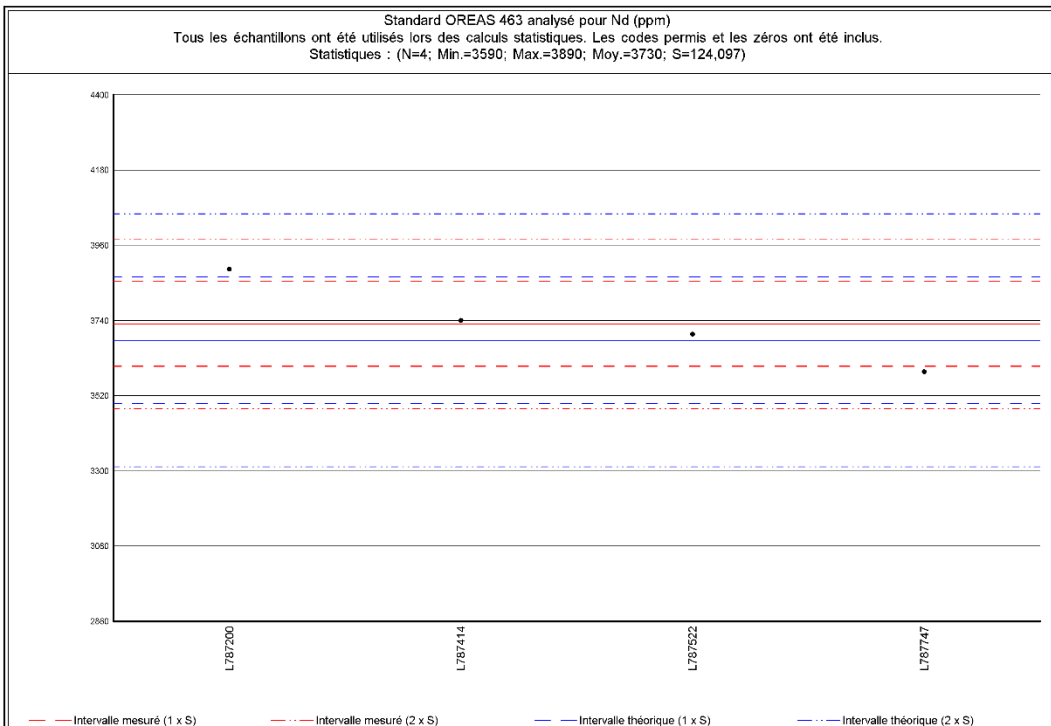


Figure 11 : Nd (ppm) in OREAS 463 (n=4)

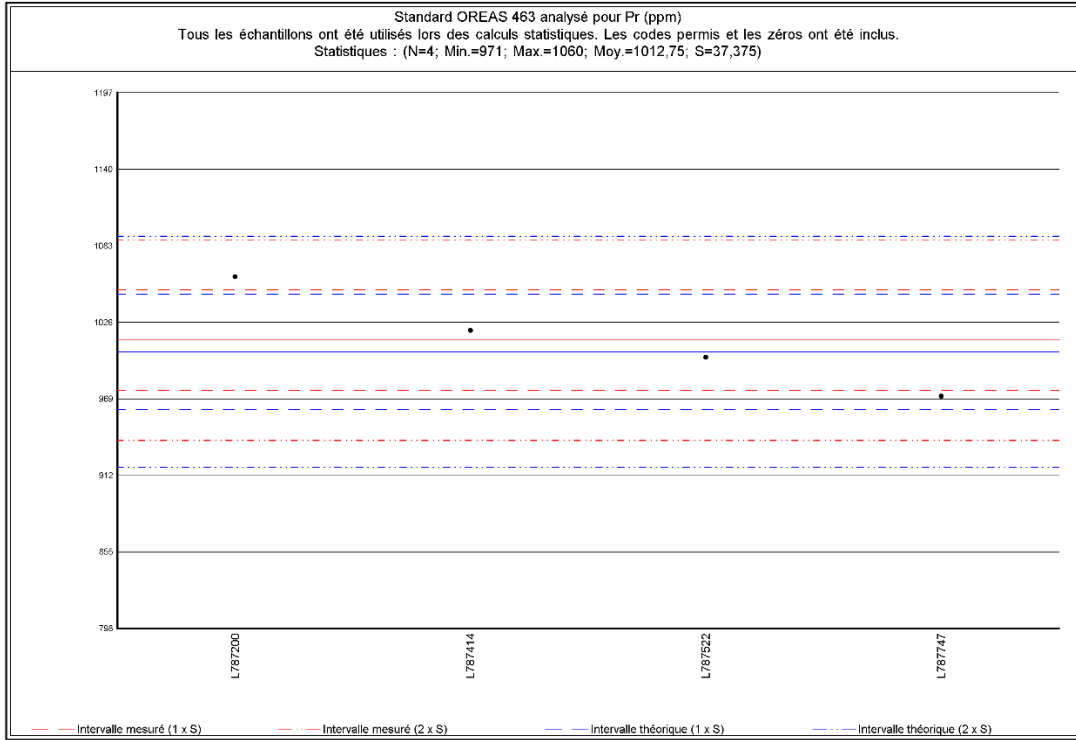


Figure 12 : Pr(ppm) in OREAS 463 (n=4)

Recommendations:

The Ce, La, Nd and Pr values measured in the blanks and certified reference materials from the 2025 drilling campaign are fully compliant with QA/QC requirements. Therefore, we have no specific recommendations to make regarding the results presented in this report.

Dated this 20th day of November 2025

Jean-Philippe Arguin, MSc, P.Ge

OGQ #1913