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Campus Creek Property
52G05 and 52G06
Ignace-area, Northwestern Ontario, Canada
2021 Geological Mapping and Prospecting Report

Grid Metals Corporation

Suite 304
3335 Yonge St.
Toronto, Ontario
M4N 2M1
Phone: 416-955-4773

Date Completed: April 24, 2023

Kai Roberts, G.I.T.
Carey Galeschuk, P. Geo



GridMetals
CORP.

Grid Metals Corporation

Summary page —Campus Creek Property — 2021 Campus Creek Property Assessment Report

Geographical location: South of Trans Canada Hwy #17, east of Ignace, Northwestern Ontario, in Provincial Grid 50K Sheets 52G05 and 52G06.

Claim registration numbers:

635957 – 635976

652851

653354 – 653379

655379 – 655381

671231 – 671278

674458 – 674511

676672 – 676758

681528 – 681617

Early Exploration Number: PR-22-000003

Target Commodity: Lithium-Cesium-Tantalum Pegmatite Dykes

Total number of samples: 420 analysed samples

Value of work reported: \$73,980.93

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Introduction

The Campus Creek Property is an early exploration-stage lithium pegmatite project located near the town of Ignace in Northwestern Ontario owned by Grid Metals Corporation. The company optioned the property from a local prospector in the fall of 2021 after completing two phases of due diligence comprising mapping and prospecting. Subsequently, Grid Metals completed a two-week mapping and prospecting program during 2021 during which 420 samples of granite and granite pegmatite were collected from the western and central parts of the Property.

A total of \$73,980.93 is claimed as part of this assessment report (Appendices B, H).

All UTM coordinates provided in the report are NAD 83, Zone 15.

The assessment report has been completed by Kai Roberts, geologist (G.I.T.) for Grid Metals Corporation under the supervision of Carey Galeschuk, P. Geo, Vice President of Lithium Exploration for Grid Metals Corporation.

The purpose of the work performed was to ascertain the extent and grade of lithium-cesium-pegmatites located on the property. Geologic mapping and work performed by Rob Foy (Foy Geological Services Inc.), Simon Dolega (Bayside Geoscience).

Project Location and Access

The Campus Creek lithium property is located in Northwestern Ontario, 7.5 km south of Ignace in the McNamara Lake Area and Dewan townships and about 250 km northwest of the inland port and regional HUB city of Thunder Bay (Fig. 1) and is situated on Crown Land. The approximate location is 49° 20' to 49° 17' N latitude and -91° 39' to -91° 28' longitude. The Property is located in Provincial Grid 50K Sheets 52G05 and 52G06. It is 15 km long by 5 km wide covering an area of ~7,000 hectares. The northeast corner of the Property touches the Trans Canada Highway, and the CP rail line is located 1.3 km north of this corner.

Access to the Campus Creek Property can be obtained from the Trans Canada Highway #17 by driving southeast from Ignace by pickup truck for 13.5km. The northeast corner of the Property touches the Highway. Multiple logging roads connect to the Trans Canada Highway and pass through the property providing excellent year-round road access. The main pegmatite showing is 11 km from Highway #17.

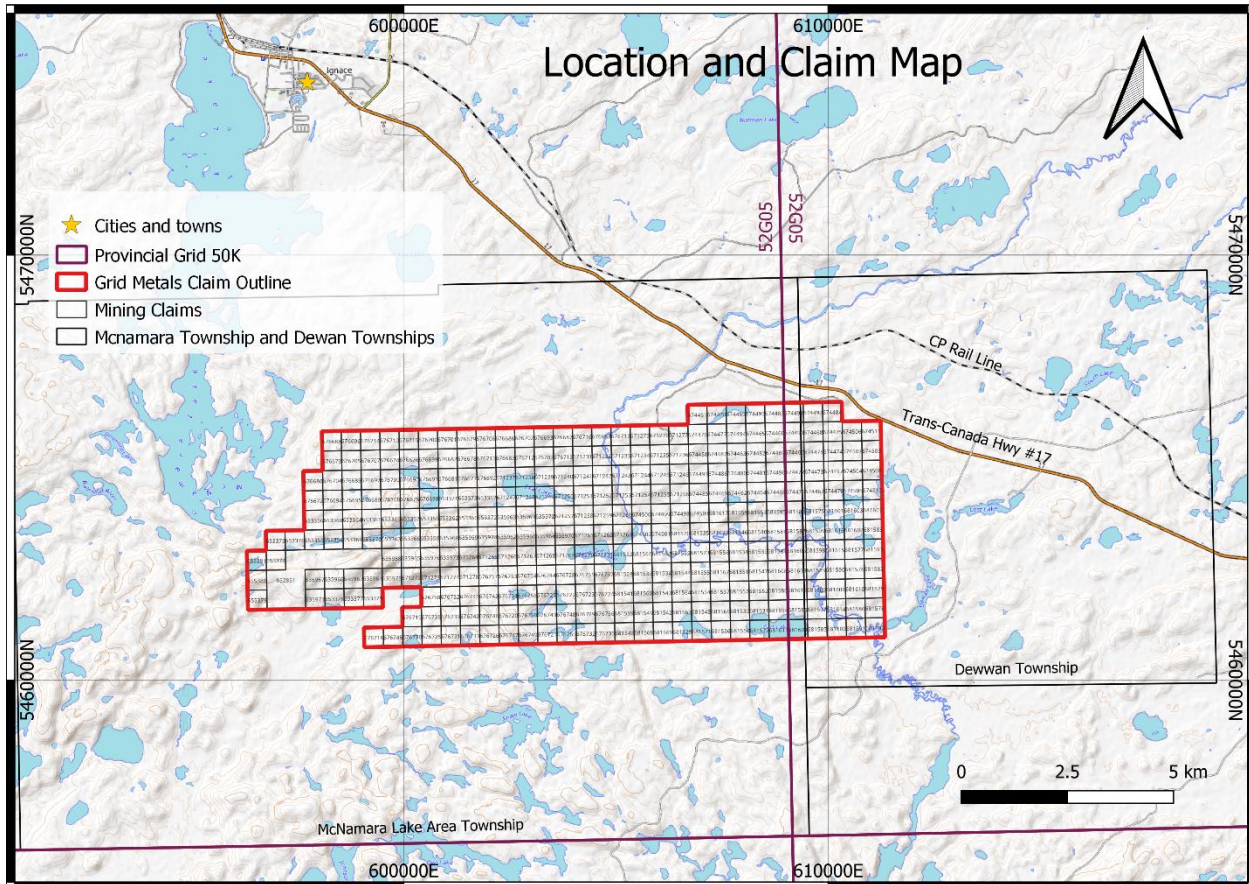


Figure 1: Location and claim map showing Grid Metals' claim outline and the individual claim numbers. The map identifies provincial grid 50K sheets, the McNamara Lake Area, and Dewan Townships, and also shows notable topographic features like lakes, streams, Trans-Canada Hwy #17, and the CP Rail Line.

Claim Status

The property is composed of 329 claims comprising ~7,000 hectares with a physical extent of 15km by 5 km (Fig. 2). Grid Metals completed an option agreement with the vendor to acquire a 100% undivided interest in the property. Claims come due on one of the following: April 28, May 08, August 16, September 14, or October 18, 2023.

Physiography

The area that was explored in 2021 has been clear cut with numerous granite and pegmatitic granite outcrops being exposed. It is a typical Precambrian terrain of undulating elongated outcrops with spruce and birch trees on elevated highs and alders and minor bog in the low regions.

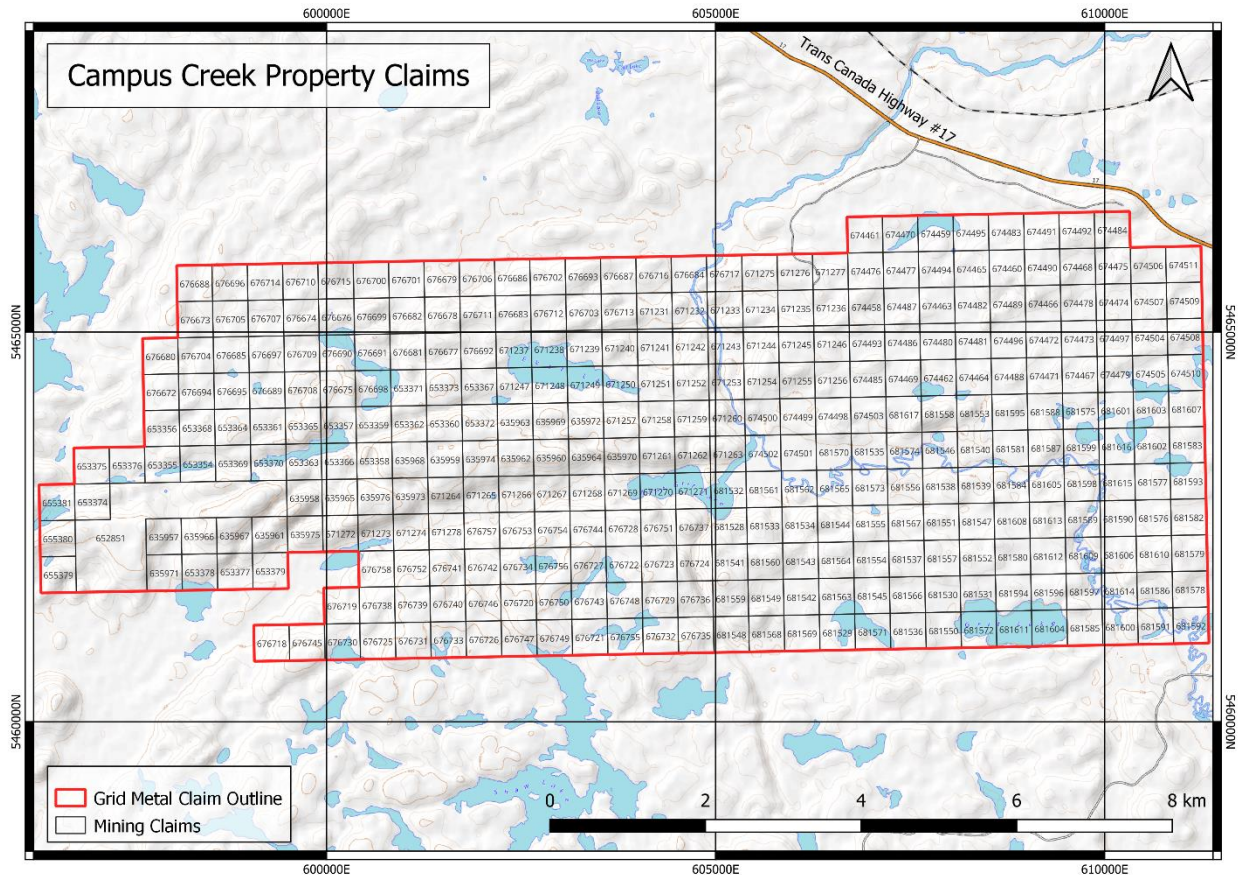


Figure 2: Campus Creek Property claim map showing the location and number of Grid Metals' claims.

Regional Geology

The Campus Creek Property captures a major terrane boundary between the Western Wabigoon Terrane in the northwest, the Winnipeg River Terrane in the northeast and the Marmion Terrane in the south (Fig. 3) (Percival, 2007; Sanborn-Barrie, *et al.*, 2002). The property occurs in the Raleigh Lake Greenstone Belt in the Western Superior Province of the Canadian Shield; in metavolcanic and sedimentary rocks sandwiched between two major biotite granite batholiths: the Indian Lake, and the White Otter Lake Batholiths (Stone, 2010). Regional mapping by the Ontario Geological Survey covers the entire Property and major geological units include late Archean mafic metavolcanics and both clastic and chemical metasediments, basement tonalitic gneisses, and late tectonic granite-granodiorite plutons (Stone, 2010; OGS, 2011). The latter are assumed to be the source of the Campus Creek granite pegmatite occurrences described below.

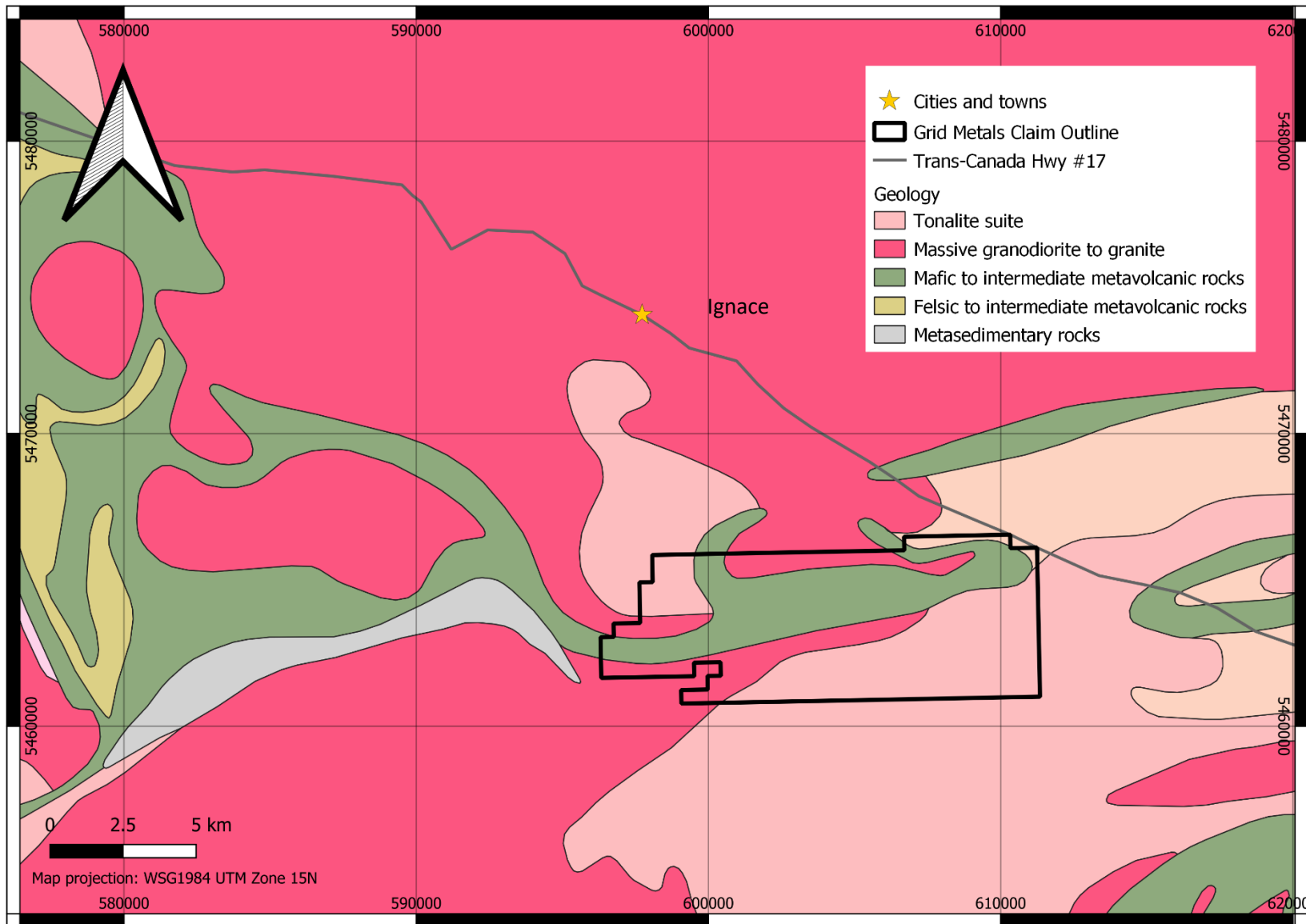


Figure 3: Regional geology map (OGS, 2011) identifying the location of Grid Metals' Campus Creek claims, Ignace, and Trans-Canada Hwy #17.

Property Geology

The Campus Creek property predominantly comprises metavolcanic rocks hosting pegmatitic granite, pegmatite dykes, and sparse outcrops of gabbro and metasedimentary rocks (Fig. 4). Field mapping completed by Rob Foy and Simon Dolega (Foy Geological Services Inc.; Bayside Geoscience) has confirmed the presence of pegmatitic granite, and pegmatite dykes, including the Highstone dyke on the discovery outcrop. The Highstone dyke is reported to have a lateral persistence over 2 km, a width ranging from 25 to ~100m wide, and remains open in both directions striking ENE. Units trending ENE parallel regional structures.

The Highstone Dyke is zoned with an aplitic and garnetiferous border zone; an intermediate spodumene-K-feldspar-quartz, and lesser lepidolite zone; and a core quartz-muscovite-K-feldspar zone. Spodumene is reported to be pale beige-green and 8-30cm long. Lesser light purple quartz lepidolite was noted in fractures as well. Additionally, two less evolved pegmatites were also sampled. For further description, see Dr. Julie Selway's report (Appendix F)

2021 Geological Mapping Program

The Company completed two phases of field due diligence comprising two periods of mapping, prospecting, and sampling. Dr. Julie Selway, an expert on rare metal-enriched pegmatite exploration in Canada, was contracted to help with this sampling and interpretation of the results. Due to positive results from the due diligence mapping, Grid Metals signed a formal Option Agreement with the owner. Subsequently, the company contracted consultants Rob Foy and Simon Dolega to complete a 2-week mapping and prospecting program. Mapping and sampling were focused on the western part of the Property including the main discovery outcrop area. The consultants stayed in Ignace, at the Northwoods Motor Inn, travelling to site each day by truck. Daily, the mapping program consisted of systematically walking traverse lines spaced 150 m apart, sampling pegmatitic granite and pegmatitic dykes when encountered. A new geological map for this area was produced (Fig. 4). Rock grab samples were collected by hammering or chiseling pieces off exposed outcrops or collecting loose material adjacent to outcrops. At each sample location, the UTM coordinates were recorded, and the sample was described (Appendix C).

The summer 2021 mapping program produced 420 samples of granite and granite pegmatite collected from the western and central parts of the property (Fig. 5,6). These samples included 4 rock channels comprising 49 m total (Appendix E). All the samples were analysed at Activation Laboratories in Ancaster, Ontario using predominantly UT-7-Grid and Rx1T(TBAY) analysis packages, with lesser use of the following packages: 8-peroxide ICPMS/ICP, 8-Li sodium peroxide fusion, 8-Nb₂O₅, Ta₂O₅ & ZrO₂ - XRF Option, or the 8-REE assay package.

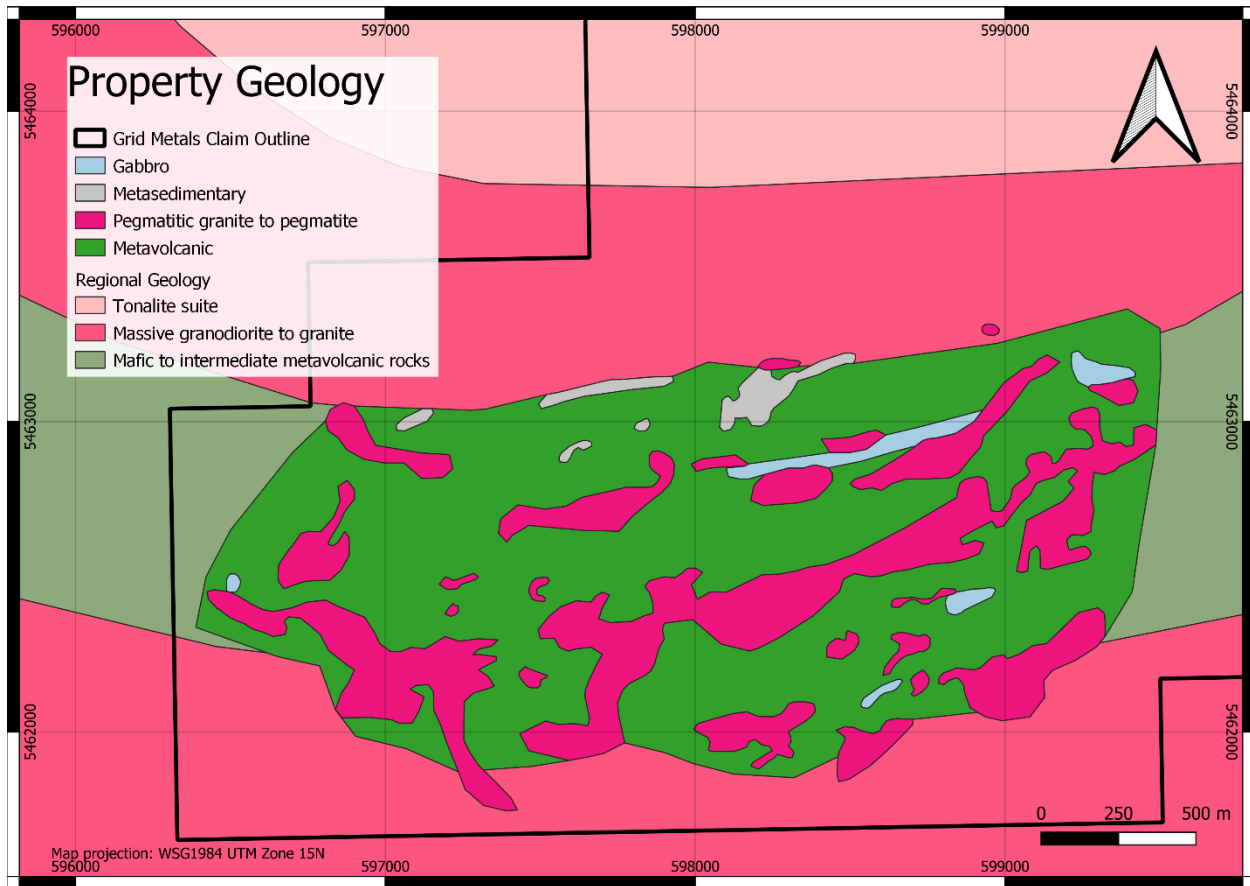


Figure 4: Property geologic map located in the SW corner of the project area. The map was produced from systematically walking traverse lines spaced 150 m apart. Regional geology data supplied from Ontario Geological Survey 2011.



Figure 5: Summer 2021 mapping and sampling program showing the location and Li grade (ppm) of all samples on 1:21000 and 1:450 scale maps and the location of the Highstone dyke. GPS coordinates and descriptions for all grab samples may be found in appendix C, coordinates for channel samples may be found in appendix E, and labelled sample locations may be found in Appendix D. Regional geology data supplied from Ontario Geological Survey 2011.

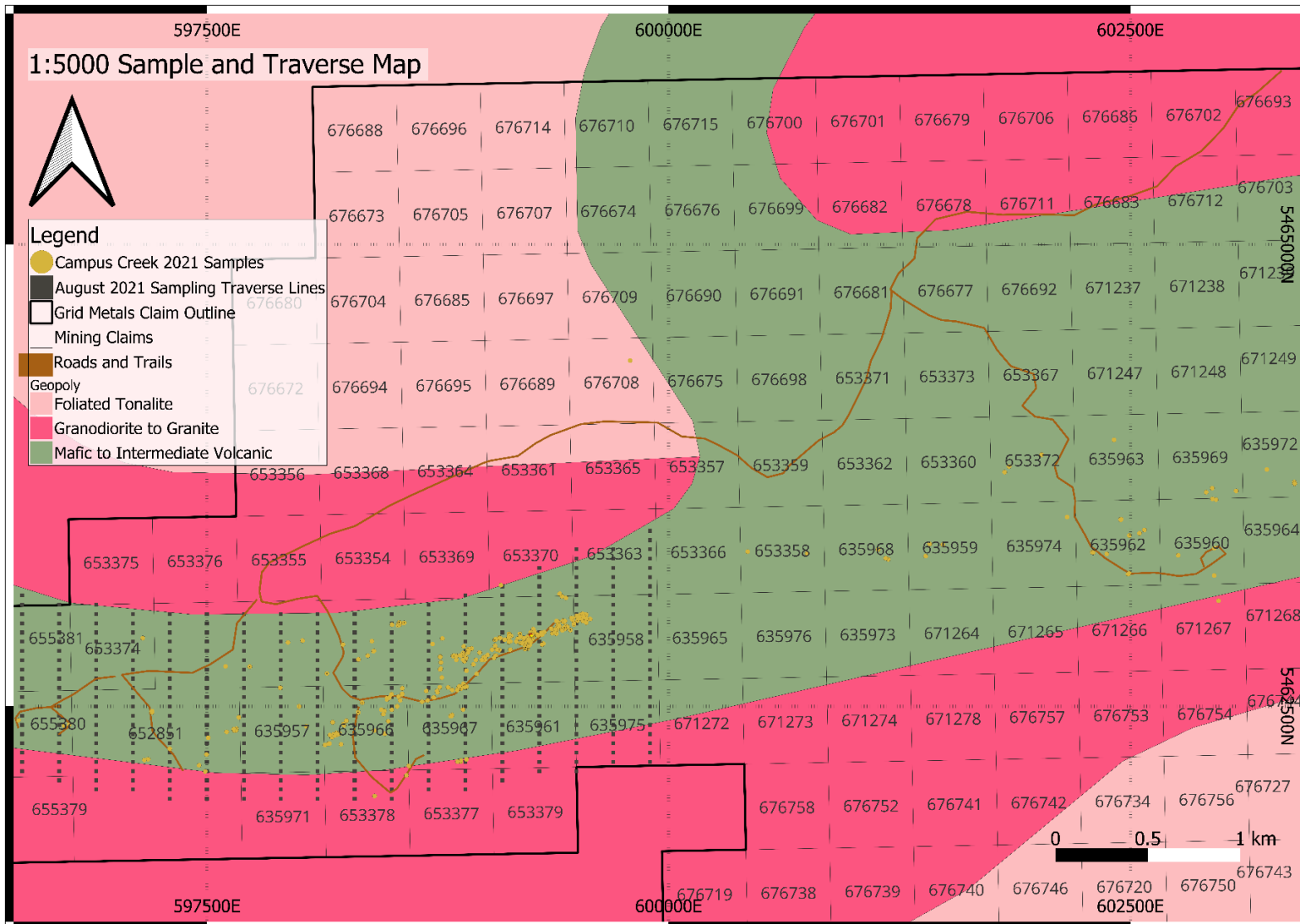


Figure 6: 1:5000 scale map showing all sample locations, as well as the roads and traverses taken to collect all grab samples from the summer 2021 mapping program. Labeled sample locations may be found in Appendix D. The map also shows where the samples are located on Grid Metals' claims. Regional geology data supplied from Ontario Geological Survey 2011.

Interpretation and Recommendation

Surface samples confirm the presence of an evolved lithium-cesium-tantalum (“LCT”) pegmatite system at the Highstone Dyke on the Campus Creek Property. The presence of anomalous Be, in addition to elevated Li, Cs, and Ta values correspond to a highly fractionated pegmatite. Specifically, higher sample grades for Li (Table 1), and Rb values correspond to the presence of spodumene and lepidolite in the dyke while anomalous values of Ta (Table 2) and Sn correspond to Ta-oxide minerals. It is interpreted that the high Cs (Table 3) values are from the presence of pollucite – the main cesium ore mineral at the Tanco Mine in SE Manitoba. Indicator element geochemical data (e.g., K/Rb, K/Cs, Mg/Li) obtained from pegmatite and granite samples around the Highstone Dyke all indicate a common parentage from a highly evolved and fertile (for Li, Cs, Ta) granite intrusion (S-type granite).

Table 1: Campus Creek 2021 Sampling Assays Anomalous Li (>1000ppm)

Sample ID	Lithology	Easting	Northing	Location	Li (ppm)	Cs (ppm)	Rb (ppm)	Ta (ppm)
B419026	Granite Pegmatite	599255	5462885	East	20200	128	319	88.2
B419027	Granite Pegmatite	599257	5462883	East	4270	1110	4080	70.8
B419085	Granite Pegmatite	599257	5462880	East	6970	713	1770	179
B419088	Granite Pegmatite	599255	5462883	East	6600	1680	4130	304
B419089	Granite Pegmatite	599256	5462882	East	3180	822	2550	227
B419103	Granite Pegmatite	599256	5462874	East	1030	163	1050	32.6
B419119	Granite Pegmatite	599258	5462874	Channel 1	3780	1200	3920	127
B419121	Granite Pegmatite	599258	5462874	Channel 1	3610	637	3230	186
B419122	Granite Pegmatite	599258	5462874	Channel 1	4060	550	3080	28.5
B419165	Granite Pegmatite	599257	5462888	East	1410	539	2280	142
B419167	Granite Pegmatite	599257	5462883	East	10300	2650	6040	629
B419193	Granite Pegmatite	599255	5462884	East	19900	1030	1080	204
B419398	Granite Pegmatite	599256	5462883	Channel 4	5730	6320	5660	61.2
B419399	Granite Pegmatite	599256	5462883	Channel 4	5060	24700	3600	204
B419401	Granite Pegmatite	599256	5462883	Channel 4	1270	569	3230	85.7

During the summer program, 49 m of rock channels were cut. Three channels were cut into the Highstone Dyke, and one channel was cut 10 m towards the southeast of the main channel (channel 1) (Fig. 7). Channels 1 and 4 were cut within 0.5 m of each other. They were the only 2 channels to have anomalous lithium values above 1000 ppm, and taken together, these channels show anomalous lithium values over a width of ~5 m. Channel 2 was cut 20 m east of channel 1, and while lithium values were elevated, they were not anomalous. Channel 3, cut 10 m southeast of channel 1 also did not have anomalous lithium values.

Table 2: Campus Creek 2021 Sampling Assays Anomalous Ta (>100ppm)

Sample ID	Lithology	Easting	Northing	Location	Ta (ppm)	Li (ppm)	Cs (ppm)	Rb (ppm)
B419065	Granite Pegmatite	598729	5462548	East	132	23	30	1590
B419085	Granite Pegmatite	599257	5462880	East	179	6970	713	1770
B419088	Granite Pegmatite	599255	5462883	East	304	6600	1680	4130
B419089	Granite Pegmatite	599256	5462882	East	227	3180	822	2550
B419119	Granite Pegmatite	599258	5462874	Channel 1	127	3780	1200	3920
B419121	Granite Pegmatite	599258	5462874	Channel 1	186	3610	637	3230
B419165	Granite Pegmatite	599257	5462888	East	142	1410	539	2280
B419167	Granite Pegmatite	599257	5462883	East	629	10300	2650	6040
B419193	Granite Pegmatite	599255	5462884	East	204	19900	1030	1080
B419194	Granite Pegmatite	599498	5462985	East	188	74	80	1530
B419399	Granite Pegmatite	599256	5462883	Channel 4	204	5060	24700	3600
B419488	Granite Pegmatite	598763	5462769	East	139	240	188	900

Table 3: Campus Creek 2021 Sampling Assays Anomalous Cs (>1000ppm)

Sample ID	Lithology	Easting	Northing	Location	Cs (ppm)	Rb (ppm)	Li (ppm)	Ta (ppm)
B419027	Granite Pegmatite	599257	5462883	East	1110	4080	4270	70.8
B419088	Granite Pegmatite	599255	5462883	East	1680	4130	6600	304
B419119	Granite Pegmatite	599258	5462874	Channel 1	1200	3920	3780	127
B419167	Granite Pegmatite	599257	5462883	East	2650	6040	10300	629
B419193	Granite Pegmatite	599255	5462884	East	1030	1080	19900	204
B419398	Granite Pegmatite	599256	5462883	Channel 4	6320	5660	5730	61.2
B419399	Granite Pegmatite	599256	5462883	Channel 4	24700	3600	5060	204

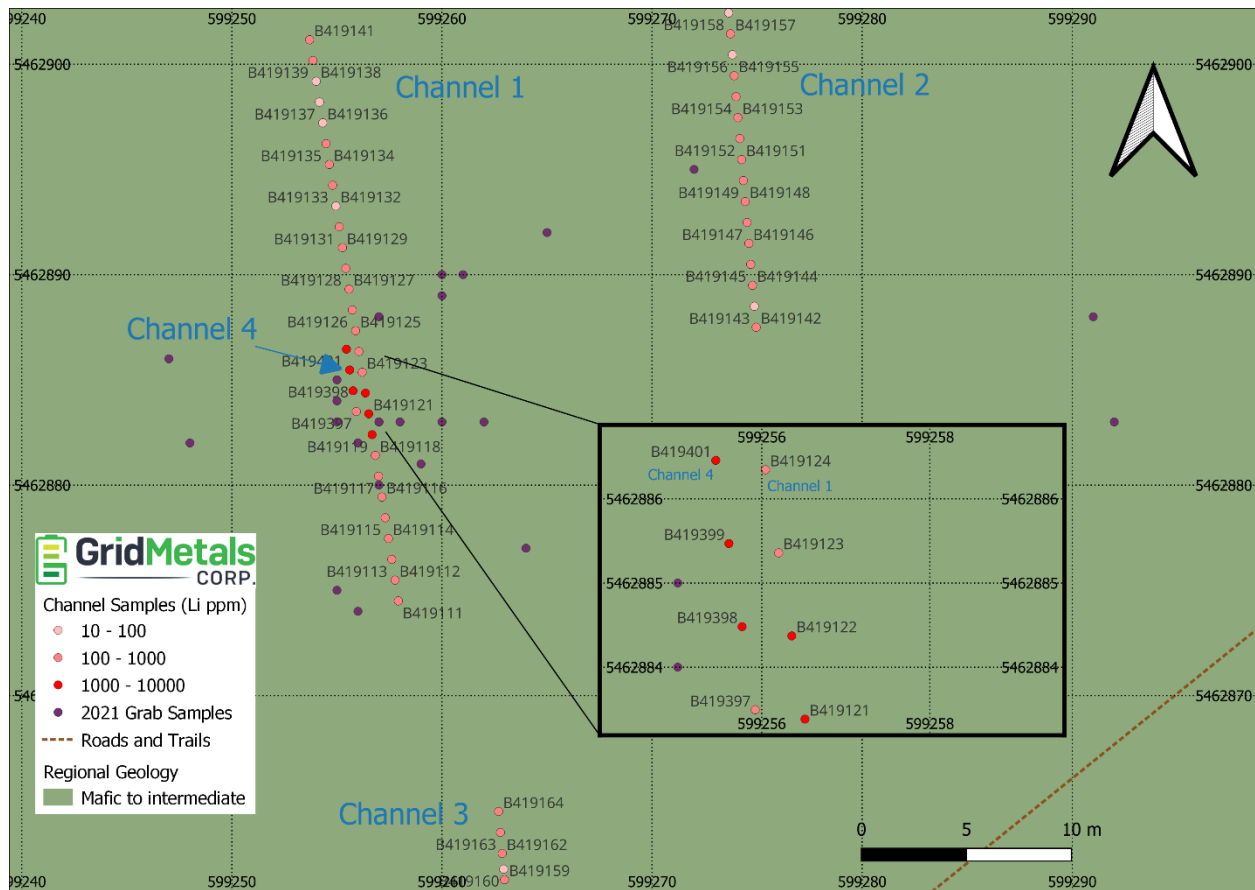


Figure 7: 1:200 scale map identifying the locations of the 4 channels cut into, and proximal to, the Highstone Dyke with inset map at 1:50 scale. The map also identifies anomalous lithium values as red (>1000 ppm) and shows the sample names. Regional geology from the Ontario Geological Survey (2011).

The following work is recommended for the next phase of exploration:

- Exploration drilling to confirm grade-thickness of lithium mineralization in the Highstone Dyke
- Initial mechanized stripping to open up exposures on all major pegmatite occurrences
- Geophysical survey (drone mag) to help define major structures hosting the fertile pegmatites
- Geochemical surveys to detect zoning patterns around covered mineralized pegmatite bodies

Conclusions

The mapping and prospecting program confirmed the presence of a lithium-cesium-tantalum-enriched (LCT-type) pegmatite with up to 4.35% Li₂O (up to 20200 ppm lithium), cesium (24700 ppm) and tantalum (up to 629 ppm) from surface samples at the discovery outcrop area. Program discoveries also included:

- Multiple pegmatite and pegmatitic granite outcrops
- Large, fractionated system with highly favourable indicator metal ratios for LCT-type pegmatites
- Clear association of pegmatite bodies with major regional structures

Field work completed by Rob Foy and Simon Dolega, and assay results received, have determined the Highstone dyke to not be as extensive as previously thought. However, only a small portion of the property

has been explored, and there remains potential for additional LCT-type mineralized pegmatite dykes to be discovered as exploration work advances.

Report Disclaimer

This report was prepared for the purposes of reporting work performed for assessment in accordance with the mining regulations as set forth by the Province of Ontario. All interpretations are based on my best judgement from the available information present at the time of the preparation of the report. Any use or reliance on this information or any part of the report or interpretation by a third party is that party's responsibility. I, or the Grid Metals Corporation or any of its affiliations now or into the future, accept no responsibility or liability for damages or costs, if any, that may result from any actions or decisions undertaken by any individual, company, corporation, or entity, as a result of any information contained within this report.

References

- Ontario Geological Survey. (2011) 1:250 000 scale bedrock geology of Ontario; Ontario Geological Survey, Miscellaneous Release–Data 126 - Revision 1.
- Percival, J.A. (2007) Geology and metallogeny of the Superior Province, Canada, in Goodfellow, W.D., ed., Mineral Deposits of Canada: A Synthesis of Major Deposit-Types, District Metallogeny, the Evolution of Geological Provinces, and Exploration Methods (pp.903-928).
- Sanborn-Barrie, M., Skulski, T., Percival, J.A., Whalen, J.B., Brown, J.L., and McNicoll, V. (2002). Geology and tectonostratigraphic assemblages, western Wabigoon Subprovince, Ontario; geological Survey of Canada, Open File 4255; Ontario Geological Survey, Preliminary Map P.3446, scale 1:250 000
- Stone, D. 2010. Precambrian geology of the central Wabigoon Subprovince area, northwestern Ontario; Ontario Geological Survey, Open File Report 5422, 130p.

Appendices

A. Statement of Qualifications

Author: Kai Roberts, G.I.T.,

947 Valour Rd, Winnipeg, Manitoba

Canada, R3G 3B8

(204)-806-6692

kairoberts5@gmail.com

- 1) I am a graduate of the University of Manitoba (2022) with Bachelor of Sciences degree in Geological Sciences (Hons), and I have practiced my profession since that time.

- 2) I am a Registered Geologist-In-Training with the Association of Professional Engineers and Geoscientists of Manitoba (#43673) since 2023.

- 3) I am currently employed by Grid Metals Corporation (fall 2022—present), I have been employed by 1911 Gold Corporation (summer 2020, summer 2021, and winter 2022—fall 2022), and for the Manitoba Geological Survey (summer2019).

- 4) I have researched and helped conduct a modest range of exploration programs for pegmatitic tantalum-lithium-cesium, magmatic nickel-copper-PGE, and hydrothermal gold.

A handwritten signature in black ink that reads "K. Roberts". The signature is written in a cursive, slightly slanted style.

Kai Roberts, GIT

April 24, 2023

STATEMENT OF QUALIFICATION

I, Carey Rus Galeschuk, am a qualified geologist registered in the Province of Manitoba, Saskatchewan and Ontario. I am a graduate of the University of Saskatchewan where I graduated with a Bachelor of Science degree in Geological Science in 1988. I have worked as an exploration geologist since that time for numerous companies. I am experienced in the exploration of numerous commodity types and am strongly knowledgeable about rare metal pegmatites.

I am registered as a professional geoscientist in the Provinces of Manitoba (#21143G), Saskatchewan (#10243) and Ontario (#734). I am a member of the Prospectors and Developers of Canada.

Currently I am VP of Lithium Exploration for Grid Metals Corp. I have visited the property in which this report is referring to but did not perform any of the field work.

My home address is 235 Ball Cres, Saskatoon, Saskatchewan. My cell number is ((306) 620-7672. My Grid Metals email is cg@gridmetalscorp.com and my personal email is nuterrageoscience@gmail.com.

Regards,



Carey Galeschuk, P.Geo

306-620-7672

cg@gridmetalscorp.com



April 24/2023

B. Summary of Expenses

Summary of Expenses

Summary table for invoices and receipts:

INVOICE	PERSONNEL	MAN DAYS	OFFICE DAYS	FIELD RATE	FIELD RATE W/TAXES	OFFICE RATE	OFFICE RATE W/TAXES	FIELD ACCOM.	PER DIEM	TRAVEL	OTHER	OTHER NOTES	TOTAL
CC EBL 09_2021_GM SEPT INVOICE_RFOY_	Rob Foy									\$2,109.99			\$2,109.99
CC EBL 10_2021_GM OCT INVOICE_RFOY_REVISD	Rob Foy	14.00	1.50	\$11,550.00	\$13,051.50	\$1,237.50	\$1,398.38	\$1,650.43	\$850.00	\$147.50	\$2,100.00	Claims	\$19,197.81
CC 1420_INVOICE_GRIDMETALSCAMPUS CREEK_DEC2021	Simon Dolega		3.25			\$1,950.00	\$2,203.50						\$2,203.50
CC 211506_GM AUGUST INVOICE	Rob Foy										\$3,177.40	August Exp	\$3,177.40
J-J MINERALS INVOICE NO. 199	Julie Selway Jian Xiong	5.25	3.25	\$800	\$904	\$800	\$904					Report	\$7684.00
J-J MINERALS INVOICE NO. 211	Julie Selway	2		\$1,600	\$1,808							Discussions	\$3616.00
A21-17065											\$3,580.97	Samples	\$3,580.97
A21-15539											\$4,457.85	Samples	\$4,457.85
A21-19475											\$889.88	Samples	\$889.88
A21-17062											\$1,459.96	Samples	\$1,459.96
A21-19169											\$1,910.27	Samples	\$1,910.27
A21-18019											\$2,018.75	Samples	\$2,018.75
A21-21176											\$1,145.82	Samples	\$1,145.82
A21-21772											\$2,337.97	Samples	\$2,337.97
A21-21196											\$6,586.21	Samples	\$6,586.21
A21-20115											\$3,621.09	Samples	\$3,621.09
A21-20030											\$1,710.82	Samples	\$1,710.82
A21-18021											\$4,248.24	Samples	\$4,248.24
A21-19612											\$2,024.40	Samples	\$2,024.40
Cost per sample = total cost/total samples = \$73,980.93/420 = \$176.15												Total	\$73,980.93
												Cost/Sample	\$176.15

Summary table for the specific cost spent per claim.

Example Calculation

Cost/claim = # samples/claim * cost/claim

Cost/claim for claim 655380 = 3 * \$176.15

Cost/claim for claim 655380 = \$528.45

CLAIM NUMBER	# SAMPLES/CLAIM	COST/CLAIM
655380	3	\$528.45
653374	1	\$176.15
652851	267	\$47,032.05
635957	3	\$528.45
635966	43	\$7,574.45
653378	2	\$352.30
635967	38	\$6,693.70
635958	22	\$3,875.30
653370	2	\$352.30
676708	1	\$176.15
653358	2	\$352.30
635968	3	\$528.45
635959	4	\$704.60
653372	3	\$528.45
635974	1	\$176.15
635963	1	\$176.15
635962	12	\$2,113.80
635969	3	\$528.45
635960	5	\$880.75
671267	1	\$176.15
635972	3	\$528.45
TOTAL:	420	\$73,980.93

C. Grab Sample Description and GPS Coordinates

SampleID	Easting	Northing	Elevation	Rock Type	Sampling Notes
B419026	599255	5462885	513		At the location of Jason's channel samples from the main showing. At this location the dyke is roughly 100-150m wide with local exposure along the road at roughly 25m wide. Showing is of the Quartz-green musc-blocky white K-spar rich core. Minor aplitic zone close to the channels showing weak sugary texture and bands of very fg red garnets. This possibly represents internal zoning of the pegmatite as the aplitic margin to quartz core. Observed several pale beige-green Spodumene's from 8-30cm close to the channel sample and some faint purplish quartz veinlets which indicate the presence of lepidolite. This is likely where Jason obtained his Li numbers from his assay. No oxides directly observed.
B419027	599257	5462883	513		This sample is taken as a duplication of Jason's channel sample #B419019. Sample hosts few light purplish-grey bands of quartz-lepidolite. Sample largely composed of white very coarse K-spar>Quartz>fg green muscovite occurring in 1-3cm bands. Possible presence of oxides but very fine grained and hard to say for sure. Looks like this channel may have caught the corner of a spodumene grain.
B419028	599468	5462913	497		Moving north through stratigraphy. Stopped at another cliff face. Outcrop is of Mg-Cg, red, K-spar rich granite. Outcrop is massive with no fabric. Roughly 60-70% red-orange K-spar, 20-25% fg quartz and 5% fg biotite in patches. Of note is the presence of 1-2% fg deep red garnets. Is this possibly the parental magma to the more evolved pegmatite dikes? seems to occur to close spatially
B419029	599436	5462926	496		Moving north towards main dyke with main showing. Granite seems to be becoming more evolved as the K-spar is becoming much blockier and coarser grained (2-10cm) and becoming more white in color as opposed to reddish-orange. Quartz rich ""pods or blowouts"" occur which tend to be local to mica rich bands trending at 080/75. This may parallel the outer edge of the dyke. Sample contained roughly 30% fg-mg green musc with white-pink k-spar>quartz making up the remainder. Micas did tend to have a red staining or alt between sheets and as weathering. Outcrop itself did not look the most perspective for lithium as it lacked the Quartz-White Kspar rich core but could run well for Rubidium.
B419030	599225	5462820	513		Sampling one of the dykes just south of the main occurrence on the south side of the access road. The dyke shows a clear contact with metasediments. Metaseds show boudinaged ""felsite"" or leucosome banding throughout, contact with dyke is at 063/76 dip to S. Metaseds are dominantly composed of very fg beige feldspars, fg needles of dark black amphibole and lesser amounts of biotite and patchy garnets. No Holmquistite observed.
B419031	599237	5462813	511		Went to southern most exposure where Jason had grabbed sample B419014. This PEG dyke runs roughly 50-60m with roughly the same width, trending roughly E-W or 070-080 degrees, no contact observed to take dip, likely steep to the south. Very coarse pink-white K-spar occurring in localized patches of cg quartz and green musc. Seems like where he samples is close to one of these patches that are generally set into finer grained mas of kspar-quartz-musc with banded fg-mg reddish purple garnets close by. Remnant very cg blocky white k-spar with quartz intergrowth with Na alt? grain boundaries. Patchy aplitic texture throughout dyke. Sampled fg, green musc and red garnet rich area where local grainsize and quartz increase.
B419032	599223	5462810	519		Same outcrop as previous station but sampled closer to the western extent of the exposure. Dyke seems to largely lack typical zonation. There is a ""Quartz core"" (10m wide) but takes on a wispy and fragmented, patchy habit. Very Cg Quartz with white-pink K-spar and 2-5cm books of strong green musc with far lesser 1% fine grained red garnets.

SampleID	Easting	Northing	Elevation	Rock Type	Sampling Notes
B419033	599195	5462893	523		Small exposure in the middle of the cut. Very Cg smokey quartz (up to 15cm wide) surrounded by white-pink, blocky K-spar set into finer grained albite? With far lesser fg green muscovite. Quartz core roughly trends around 070.
B419034	599083	5462804	525		Moving west along main dyke that hosts the main occurrence on the north side of access trail. Found Quartz-green musc>Kspar rich pod with red and white, garnet rich sugary aplitic margins. Finer grained green mica tends to occur in patches along margins of aplitic garnet rich banding.
B419035	599059	5462860	521		Sampling main dyke in the middle of the cut on the north side of access road. Small exposure with up to 50-60cm finer grained albite-quartz-green muscovite rich patch surrounded by white-pink K-spar-quartz>musc pegmatite. Area sampled tended to have stronger weathering and increased fg green musc-garnets with weak aplitic texture. Sample hosted trace very fg, euhedral to subhedral oxides that showed 1-2mm rusty orange alt halos. Possible Cs-Ta oxides?
B419036	598341	5462520	483		Now on the south side of the access road, opposite of previous station where direct contact between pegmatite and metaseds can be observed. Contact is weakly sinuous in habit with the pegmatite taking on a more granitic texture where in direct contact with sed. Pegmatite hosts metased xenoliths and possible a large ""raft"" but hard to tell due to overburden. Bedding and contact with metaseds measured at 086/90 but is variable with local strike measurements of 070. Pegmatite is composed of Mg-VCg blocky beige K-spar, smoky quartz and biotite blades that reach up to 7cm in length. Note the absence of greenish lithian muscovite near contact paired with granitic texture, is this more related to the parental granite? Sampled a subangular float/boulder possibly hosting Petalite?
B419037	598319	5462469	481		Moving south down access road away from the contact with metaseds at the fork in the road. This is likely a second pegmatite dyke separate from the larger main dyke that the showing is hosted in. Dyke has been deformed with bands of mg green muscovite within fg albite? and very coarse grained white K-spar (looks like microcline) up to 25cm wide. Muscovite may form a lineation as the bands tend to wrap around K-spars which may show possible rotation? Pegmatite itself is composed of roughly 50-60% white K-spar, 20-30% finer grained albite with only 10-20% quartz and muscovite. The quartz tends to be unevenly distributed occurring in patches often with coarser grained green musc. Shearing trends at around 080 degrees which is likely along trend with direction of dyke.
B419038	598150	5462678	470		Definite separate dyke from the main one hosting the occurrence and the furthest west exposure along this set of access trails. Can see both contacts with strongly sheared metaseds, dyke is roughly 25m wide. North contact at 598149mE, 5462691mN, South contact at 598144mE, 5462673mN. Southern contact measured at 066/52 dip to south. Pegmatite description: smaller pegmatite composed of dominantly white K-spar and patchy Q and Cg green muscovite. This dyke also seems like it may have undergone more deformation relative to main dyke hosting occurrence. Dyke seems to lack any sort of zonation with no quartz core or aplitic margins observed.
B419039	598567	5462952	493		Third pegmatitic dyke moving north through stratigraphy from main dyke. Dyke has roughly 25m wide by 100m long in E-W direction. Dyke is in direct contact with metaseds at 074/84 dip to South. This dike does show nice zonation with a quartz rich core and aplitic/sugary textured garnet rich margins. Quartz core composed of massive smokey quartz, blocky white-orange K-spar and 4-8cm long books of green muscovite.

SampleID	Easting	Northing	Elevation	Rock Type	Sampling Notes
B419040	598541	5462955	494		Sample of the host metaseds to previous sampled pegmatite dyke. Sample taken from northern contact with dyke. Very dark grey metaseds composed largely of fg amphibole and biotite with lesser fg beige feldspars. No holmquistite observed. Nonmagnetic
B419041	597601	5462717	487		Smaller granitic/pegmatitic outcrop on far west side of claim group, access from <1km further down the main forest access road. Exposure is roughly 25m by 6m wide in E-W direction. Overall reddish color to the K-spar with only the occasional crystal reaching up to 20cm. Seems like this PEG is less evolved with greenish muscovite only occurring in patches in proximity to quartz-garnet rich pods. Overall it seems like the pegmatites become less evolved the further you move north from main dyke.
B419042	597732	5462715	490		Moved south through old cut and found another pinkish pegmatite dyke measuring roughly 30m wide along cliff face. Here very Cg K-spar and cg books of muscovite become much more common relative to previous outcrop. Quartz tends to occur in blebby pods or as ribbons or infill to 15-20cm blocky pinkish beige K-spars and greenish musc. Dyke includes roughly 2-3% fg-mg deep red garnets.
B419043	597201	5462473	509	PEG	Muscovite books up to 7cm, white feldspars. 7m exposed of dike.
B419044	597299	5462271	498	PEG	Muscovite books up to 10cm, 5m away from metased contact
B419045	596727	5462395	506	PEG	Muscovite books up to 10cm, veins of fine grained green and silver mica, graphic white feldspars. Sample 1m from metased contact
B419046	596755	5462402	503	PEG	Different dyke from previous sample, diss fine green mica, smokey to clear quartz, white feldspars
B419047	596480	5462425	503	PEG	Sugary albite band, disseminated garnets up to 5mm, veins of fine grained green mica, white feldspars
B419048	598580	5462127	470	PEG	3m quartz core, 5m from gabbro contact, possible spodumene in quartz. Looks different
B419049	599092	5463156	480	PEG	Pink feldspars, round oxides, very liken covered outcrop near pond. 10m of dyke exposed, dips into water on both sides
B419051	598558	5462598	507	PEG	Contact with metased, possible oxides. Veins of fine grained green and silver mica, pink feldspars
B419052	598018	5462856	464	PEG	White feldspars, disseminated garnets up to 3mm, muscovite books up to 2cm. 25m dyke.
B419053	599212	5462870	518	PEG	Possible spodumene blade 10cm long, pink in colour, possible petalite beside it. 40m W of main showing. Disseminated fine grained green mica, large crystal sizes
B419054	599138	5462884	524	PEG	Very large crystal sizes, unknown green mineral. Disseminated muscovite books up to 1cm, oxide staining
B419055	599139	5462888	523	PEG	Quartz core, white feldspars, quartz has a purple hue. 2m E of previous sample
B419056	599135	5462883	521	PEG	Possible spodumene blade, 5cm wide dipping down, light pink in colour, blocky white feldspars, disseminated muscovite books up to 2cm, possible oxides. 2m NW of B419054
B419057	599113	5462861	525	PEG	White feldspars, muscovite books up to 5cm, purple hue to quartz, large crystal sizes
B419058	598864	5462597	509	PEG	Muscovite books up to 5cm, blocky white feldspars, disseminated fine grained green mica
B419059	598868	5462604	512	PEG	Sugary albite zone, blocky white feldspars, 4m NE of previous sample
B419061	598749	5462576	513	PEG	Quartz core zone, white feldspars, possible oxides, disseminated garnets up to 5mm, muscovite books up to 5cm, possible petalite?

SampleID	Easting	Northing	Elevation	Rock Type	Sampling Notes
B419062	598772	5462656	512	PEG	Pink feldspars, localized quartz, possible sulphides, near swamp and minimal exposure
B419063	598688	5462583	514	PEG	Blockly white feldspars, disseminated fine grained green mica, disseminated garnets up to 3mm, oxide staining
B419064	598727	5462548	512	PEG	At contact with metased, possible oxides, large crystal sizes
B419065	598729	5462548	514	PEG	Blocky white feldspars, muscovite books up to 3cm, large crystal sizes, disseminated garnets up to 3mm
B419066	598463	5462352	499	PEG	Disseminated muscovite books up to 1cm, white feldspars, possible oxides
B419067	598530	5462500	511	PEG	Disseminated fine grained green mica, pink feldspars, localized quartz, disseminated garnets up to 5mm
B419068	598547	5462533	507	PEG	Muscovite books up to 5cm, possible large oxide, localized quartz, disseminated garnets up to 5mm
B419069	598237	5462835	471	PEG	Pink feldspars, localized quartz, possible spod in quartz, muscovite books up to 5cm
B419071	598393	5462853	474	PEG	Blocky white feldspars, muscovite books up to 8cm, chalky white mineral? localized quartz
B419072	598401	5462798	482	PEG	Big wall exposure, 10m high by 10m wide, various large quartz core zones, white feldspars, muscovite books up to 10cm, veins of fine grained green mica
B419073	598371	5462774	483	PEG	Pink feldspars, muscovite books up to 5cm, fine grain biotite, disseminated garnets up to 5mm
B419074	598255	5462422	477	PEG	White feldspars, seam of muscovite books 4cm wide by 30cm long, localized quartz
B419075	598243	5462397	476	PEG	White feldspar, seams of musc books 1cm wide by 15cm long, diss fine grain green mica, localized quartz
B419076	598201	5462357	472	PEG	Large quartz core, white feldspars, very liken covered area, approx 50m dome like exposure, muscovite books up to 7cm, disseminated garnets up to 5mm. Possible spodumene in quartz
B419077	598177	5462339	466	PEG	Large quartz core, books muscovite up to 5cm, nice exposure near swamp 4m high by 4m wide wall.
B419078	598164	5462299	457	PEG	White feldspar, muscovite books up to 7cm, disseminated garnets up to 4mm, chalky white mineral? Outcrop dips into swamp.
B419079	598139	5462291	455	PEG	White feldspar, disseminated muscovite books up to 1cm, disseminated garnets up to 5mm
B419081	598408	5462015	469	PEG	Pink feldspars, localized quartz, veins of fine grained green mica.
B419082	598534	5462939	491	PEG	Large quartz core approx 3m, white to pink feldspars, possible spodumene blade up to 30cm, black oxides.
B419083	599136	5462893	529		Sample from fracture/shear zone 120-130m west of the Main Dike oriented at 356/88. Rock contain pale pink to white cg-PEG feldspar crystals, grey translucent cg-PEG quartz crystals with fg powdery white inclusions, minor amounts of fg-PEG muscovite, and up to 5% black crystals which might be iron stained oxides. There is also an aphanitic bluish green mineral within the fracture zone which may be a clay?
B419084	599147	5462882	524		Sample 2m east of sample B419083 of PEG granite. Rock composed of pale pink to white PEG feldspar, grey to black, sometimes rusted cg-PEG quartz with milky inclusions, approx 5% fg-PEG green muscovite.
B419085	599257	5462880	514		Sample of lepidolite within the spodumene bearing shear zone just east of channel 1. 50% of sample is silvery/purple fg-cg muscovite with minor amounts of green muscovite. The rest is pale pink to white cg-PEG feldspar, grey to black cg-PEG quartz and possible pale pink spodumene crystal. Shear zone orientation is 007/80.

SampleID	Easting	Northing	Elevation	Rock Type	Sampling Notes
B419086	598160	5462298	462		Sample of granite pegmatite with cg-PEG green muscovite, broad needles of pale pink to white PEG feldspar, Grey to greyish-purple PEG quartz and red mg-cg garnets. Garnets occur as clusters within the unit or as individual crystals on quartz and muscovite grain boundaries. Graphitic texture exhibited between feldspar and quartz.
B419087	598502	5462942	489		Sample of K-altered granite pegmatite with biotite and garnet 750-800m NWW from the Main Dike. Just above this sample is an amphibolite breccia within a mg granite body. Rock is composed of pinkish-white, slightly rusted, fractured PEG feldspar, grey, cg-PEG quartz, 15% black biotite occurring in fractures of feldspar, golden yellow to green muscovite occurring on grain boundaries of quartz and feldspar and 1-5% red mg-cg garnets occurring with biotite in feldspar fractures.
B419088	599255	5462883	482		Sample within the middle of channel 1 where the spodumene bearing shear zone intersects the channel within the Main Dike. Rock is composed of mostly cg-Peg grey quartz, white fg-PEG feldspar, fg-PEG green to silvery muscovite. The sample is slightly rusted.
B419089	599256	5462882	482		Sample within the bottom of channel 1 right below sample B419088 and is still part of the Main Dike. Rock is composed of fg-PEG silvery to green muscovite, white to pale pink cg-PEG feldspar, grey, slightly hematite altered cg-PEG quartz and up to 5% fg red patchy garnet. There is more Feldspar in this sample relative to B419088
B419091	599247	5462886	492		Sample from channel 2 approximately 10m NW from the channel 1, a pegmatite above the Main Dike. Rock is composed of mostly cg-PEG white to red feldspar, cg-Peg grey quartz, very green mg-PEG muscovite. There are black minerals within the unit with oxidized halos, may be oxide minerals. K-alteration is very strong in the bottom of the channel and about half of the sample taken.
B419092	599248	5462882	494		Sample from channel 3 approximated 2m SSE from channel 2, not part of the Main Dike. Rock is composed of blocky white to pale pink, cg-PEG feldspar, fg-PEG grey quartz, bright green muscovite, trace black oxides with iron stained halos and up to 5% fg-mg red garnets. Garnets occur with muscovite and come occur as inclusions within feldspar crystals. Sample is in an area with large blocky grey quartz.
B419093	599265	5462892	500		Sample of the Main Dike, approximately 10-15m away from Channel 1. Just above sample is a fg-mg layered granite/aplite. Rock is composed of cg-Peg light pink to white blocky to needle like/spherical feldspar, grey to black cg-Peg quartz, fg-Peg bright green muscovite, up to 5% black fg-Peg biotite occurring in fractures of feldspar and up to 5% fg-cg red garnet. Garnets are associated in fractures with muscovite and biotite, along quartz grain boundaries and as inclusions within feldspars.
B419094	599260	5462890	509		Sample of the Main Dike, approximately 2-3m away from sample B419093, less than 1m south of the spodumene bearing shear zone. Rock contains PEG white to pale pink feldspar, grey mg-PEG quartz, fg-PEG green muscovite and up to 15% fg-cg red garnets. Garnet occurs as clusters, single crystals with muscovite and quartz and as inclusions within feldspar. The sample is feldspar dominate (40-50%) and slightly rusted. The sample also had a lime green to malachite green weak alteration.

SampleID	Easting	Northing	Elevation	Rock Type	Sampling Notes
B419095	599260	5462883	512		Sample of the Main Dike, lower in stratigraphy, about 2-3m away from channel 1. Rock is composed of pale pink to white cg-Peg feldspar, grey-black mg-Peg quartz, fg-Peg green muscovite, fg-cg fed garnet and possible spodumene? Spodumene crystals is about 10cm in length and is growing on a grain boundary of 40cm long feldspar crystal. Some samples show graphitic texture between feldspar and quartz. Slightly rusted. Garnet, up to 10% occurs as patches, single crystals with quartz and muscovite or as inclusions within feldspar.
B419096	599272	5462895	512		Sample of the Main Dike, approximately 20-25m from channel 1. Rock is composed of mg-PEG quartz core, cg-Peg white to pale pink feldspar, up to 5% fg-PEG brownish green muscovite and up to 5% fg-cg red garnet occurring as inclusions within quartz and feldspar. Weak K-/hem alteration.
B419097	599267	5462918	513		Sample up stratigraphy from the Main Dike, not part of the Main Dike. The rock is a pegmatite granite and there is another pegmatite granite dike above this sample with a sharp contact. The sample is composed of cg-PEG white to pale pink feldspar, grey cg-PEg quartz, fg-PEG green muscovite, 10-15% fg-cg garnet and trace amounts of black fg oxide minerals with fe stained alteration halos. Overall there is a weak-moderate K-/hem alteration. Graphitic texture is observed between quartz and feldspar. contact with metasedimentary country rock is within 1m north of sample.
B419098	599264	5462877	511		Sample down stratigraphy from the Main Dike, not part of the Main Dike. Between this pegmatitic granite and the Main Dike there is a fg aplite dike. Rock is composed of Peg white to pale pink feldspar, grey mg-PEG quartz, fg-cg green muscovite, fg-mg red garnet and possible green beryl? Beryl is cg anhedral and occurs with garnets. Garnets are abundant, 15-20%. Muscovite is mostly fg and occurs with garnet. Graphitic texture is exhibited between PEG Feldspar and mg-cg quartz.
B419099	599312	5462890	508		Sample south of main road, possible continuation of Main Dike. Unit contains up to 40cm wide grey PEG quartz core, PEG white to pale pink feldspar, grey to green fg-PEG muscovite, less than 5% red fg garnets, inclusions of possible black oxides with feldspars and possible fg spodumene.
B419101	599322	5462840	495		Sample south of main road, not part of Main Dike. Unit is divided into the PEG section and matrix. The pegmatitic section contains PEG pink-white, broad needle feldspar with most crystals exhibiting graphitic texture with mg-cg grey quartz. Matrix is composed of mostly fg-cg silvery to green muscovite, mg to cg needle grey quartz and possible spodumene crystal on grain boundaries of feldspar. Matrix to PEG ratio is about 40:60. Most of sample is the PEG feldspar crystals
B419102	599315	5462835	500		Sample near B419101, overall same description as B419101 except the greater abundance (5-10%) of fg red garnet within the matrix. Above the unit there is a fg aplite dike with layering defined mostly by garnet crystals. The PEG is about 2-4m wide with metasedimentary contacts on both sides. Most of sample is of the matrix.
B419103	599256	5462874	516		Sample west of the Main Dike, most likely part of the Main Dike and within the spodumene bearing shear zone. Rock is composed of cg-Peg white feldspar, grey to black mg-PEG quartz, fg-cg green to dark green muscovite, up to 10% black biotite occurring in fractures of the shear zone. There is a creamy mineral within the shear zone that could possibly be spodumene or an alteration product. There si a vug within the shear zone containing a fg-mg purple fluorite. Trace amounts of black mg-cg tourmaline is also associated with the shear zone.

SampleID	Easting	Northing	Elevation	Rock Type	Sampling Notes
B419104	599089	5462870	525		Sample of a shear zone approximately 160-170m west of channel 1. The shear zone is oriented at 026/90. Sample is taken from the shear zone and surrounding pegmatitic granite. Shear zone contains elongated grey mg-cg quartz, mg-PEG white to pale pink feldspar, cg green muscovite and fg red garnet. Outside the shear zone, the unit is mostly PEG feldspar and quartz and fg-mg green muscovite.
B419105	599235	5462858	517		Sample southwest, approximately 30-40m from channel 1, not part of the Main Dike. Weak to moderate K-/hem alteration. Rock is composed of cg-PEG grey elongated broad needles of quartz, cg-PEG elongated broad needles of white- pale pink feldspars, fg-PEG green muscovite and fg-mg red garnet. Possible spodumene? There is a preferred orientation of the broad needles, about 049.
B419106	597897	5462601	467		Sample of Pegmatite with biotite crystals occurring in fractures of large (up to 30cm long) feldspar crystals. Unit is composed of mg-PEG grey quartz, PEG greyish-white to pale pink feldspar, fg-PEG green muscovite, mg-Peg (up to 10cm) black biotite and up to 15% fg-cg red garnet, usually associated with biotite. Graphitic texture is exhibited between quartz and feldspar.
B419107	597999	5462500	470		Sample of pegmatite granite with PEG, ellipsoidal to spherical pinkish-white feldspar crystals, some containing graphitic texture with mg-cg quartz and a matrix composed of fg-mg green muscovite, mg-Peg grey quartz and less than 5% fg red garnet. Possible spodumene?
B419108	598039	5462392	461		Sample of pegmatite granite with graphitic texture exhibited between feldspar and quartz. Rock is composed of PEG white to pale pink feldspar, mg-PEG grey core quartz, fg-Peg green muscovite and 10-15% fg-mg red garnets. Sample is about 40% quartz core and 60% graphitic feldspar with garnets and muscovite.
B419109	598461	5462476	501		Sample of very cg PEG approximately 900m southwest from channel 1. Unit is composed of PEG pinkish-white to white feldspar with inclusions of bluish grey fg-mg quartz. Graphitic texture is exhibited between feldspars and quartz. Fg-PEG green muscovite and 5-10% fg-mg red garnet also occur in the unit. There was a beige-ishgreen elongated mineral that was sampled (possible spodumene).
B419111	599257.9	5462874.5	510		
B419112	599257.8	5462875.5	510		
B419113	599257.6	5462876.5	510		
B419114	599257.5	5462877.5	510		
B419115	599257.3	5462878.4	510		
B419116	599257.1	5462879.4	510		
B419117	599257	5462880.4	510		
B419118	599256.8	5462881.4	510		
B419119	599256.7	5462882.4	510		
B419121	599256.5	5462883.4	510		
B419122	599256.4	5462884.4	510		
B419123	599256.2	5462885.4	510		

SampleID	Easting	Northing	Elevation	Rock Type	Sampling Notes
B419124	599256	5462886.3	510		
B419125	599255.9	5462887.3	510		
B419126	599255.7	5462888.3	510		
B419127	599255.6	5462889.3	510		
B419128	599255.4	5462890.3	510		
B419129	599255.3	5462891.3	510		
B419131	599255.1	5462892.3	510		
B419132	599254.9	5462893.3	510		
B419133	599254.8	5462894.2	510		
B419134	599254.6	5462895.2	510		
B419135	599254.5	5462896.2	510		
B419136	599254.3	5462897.2	510		
B419137	599254.2	5462898.2	510		
B419138	599254	5462899.2	510		
B419139	599253.9	5462900.2	510		
B419141	599253.7	5462901.2	510		
B419142	599275	5462887.5	505		
B419143	599274.9	5462888.5	505		
B419144	599274.8	5462889.5	505		
B419145	599274.7	5462890.5	505		
B419146	599274.6	5462891.5	505		
B419147	599274.5	5462892.5	505		
B419148	599274.4	5462893.5	505		
B419149	599274.3	5462894.5	505		
B419151	599274.3	5462895.5	505		
B419152	599274.2	5462896.5	505		
B419153	599274.1	5462897.5	505		
B419154	599274	5462898.5	505		
B419155	599273.9	5462899.5	505		
B419156	599273.8	5462900.4	505		
B419157	599273.7	5462901.4	505		
B419158	599273.6	5462902.4	505		
B419159	599263	5462861.2	498		

SampleID	Easting	Northing	Elevation	Rock Type	Sampling Notes
B419160	599262.9	5462861.7	498		
B419162	599262.9	5462862.5	498		
B419163	599262.8	5462863.5	498		
B419164	599262.7	5462864.5	498		
B419165	599257	5462888	511	PEG	This sample is 5 m along strike to the E of Channel 1. Numerous tan colour spodumene blades up to 5cm cutting through quartz, fine grained silver mica also present with small green apatite crystals bordering mica
B419166	599257	5462888	511	PEG	This sample is 15cm away from previous sample, it is a small pod of lepidolite 10x10cm in size. Blocky white k-feldspar with fine grained silver mica present
B419167	599257	5462883	509	PEG	This sample is 1m away from Channel 1 along strike to the E, sample is in the middle of a lepidolite pod that measures 1.5mx.08m. The sample is dark purple with some silver mica there is also a few veins of a milky inclusion possibly albite?
B419168	599255	5462875	510	PEG	This sample is 6m along strike to the W of Channel 1, sample is in a sheer zone, small veinlets of bright purple lepidolite are up to 5cm long by .5cm wide. Dark green/blue tourmaline is also present in parallel crystals up to 10cm long by 1cm wide, fine grain silver mica is localized, blocky white k-feldspar and smokey quartz with possible small black oxides in it
B419169	599261	5462890	509	PEG	This sample is 12m along strike to the E of Channel 1, it is in a sheer zone, fine to medium grained garnets are disseminated, silver to green fine grained mica, smokey quartz with possible small black oxides
B419171	598534	5462939	491	PEG	This sample is next to a large quartz core 5mx3m in size, sample is in tan feldspar medium to coarse grained oxides are present, possible tantalite and cassiterite.
B419172	599085	5462870	520	PEG	This sample is in a sheer zone ~150m to the west-northwest from Channel 1. White to light pink k-feldspar, small veinlets of dark purple lepidolite are up to 4cm in length and .5cm wide. Smokey quartz with possible medium grained black oxides
B419173	599084	5462871	520	PEG	This sample is 1m N of previous sample, white to light pink k-feldspar, smokey quartz with books of green muscovite up to 10cm, disseminated fine grained red garnets
B419174	599088	5462870	522	PEG	White k-feldspar with needle like oxides in it, muscovite books up to 10cm, band of fine grained garnets, clear to smokey colour quartz
B419175	599060	5462860	522	PEG	White k-feldspar, books of green muscovite up to 5cm also fine silver mica and round black oxides in feldspar with rusty alteration haloes around them
B419176	599064	5462864	520	PEG	This sample is in a sheer zone, white k-feldspar, fine grained green/silver mica, possible disseminated black needle like oxides
B419177	598695	5462532		PEG	White to pink k-feldspar with possible oxides in fractures, smokey quartz, muscovite books up to 5cm, fine to medium grained red garnets, this sample is 3m away from metased contact
B419178	598320	5462468	481	PEG	White k-feldspar with needle and cubic like black oxides, disseminated fine grained green mica and books of muscovite up to 5cm
B419179	599139	5462887	509	PEG	White to pink k-feldspar, with disseminated fine to medium grained black oxides, quartz is clear to smokey in colour, 1cm books of green muscovite

SampleID	Easting	Northing	Elevation	Rock Type	Sampling Notes
B419181	599139	5462886	522	PEG	Sample is in a sheer zone, green clay like mineral filling fractures, white to pink k-feldspar with small black oxides, smokey quartz
B419182	599220	5462820	512	PEG	Sample is next to a 1x2m quartz core, pink k-feldspar with round black oxides, disseminated yellow muscovite from fine grained into books up to 3cm
B419183	599229	5462819	512	PEG	Pink to white k-feldspar with some graphic texture, cubic black tantalite oxides, fine grained yellow mica
B419184	599235	5462817	510	PEG	Pink to white k-feldspar, muscovite books up to 5cm, small black oxides in feldspar, clear to smokey colour quartz
B419185	599224	5462818	513	PEG	Pink to white k-feldspar, cloudy quartz, yellow muscovite books up to 4cm, disseminated fine grained round black oxides
B419186	599244	5462828	505	PEG	Pink to white k-feldspar with needle like oxides in it, yellow books of muscovite up to 4cm, clear to smokey quartz
B419187	599310	5462892	502	PEG	Pink to white k-feldspar, smokey quartz with albite inclusions, fine graded yellow muscovite up to books of 5cm
B419188	599317	5462897	503	PEG	Pink to white k-feldspar with small black round oxides in it, books of yellow muscovite up to 5cm., clear to smokey quartz
B419189	599327	5462902	493	PEG	Pink k-feldspar with disseminated small round black oxides, disseminated fine grained yellow mica, clear to smokey quartz
B419191	598444	5462482	482	PEG	This sample is to follow up on B419109 ~800m west-southwest of Channel 1, pink k-feldspar with books of muscovite up to 8cm, possible tan colour tip of a spod blade 5cmx1cm and possible white beryl crystal
B419192	598729	5462548	514	PEG	This sample is to follow up on B419065, white k-feldspar, disseminated round and cubic black oxides, disseminated fine to medium grained garnets, localized fine grained yellow mica
B419193	599255	5462884	511	PEG	This sample is 2 m to the E of Channel 1, this sample is in the middle of a 45cm spod blade, lepidolite is present in sample around the spodumene blade, disseminated black oxides on spod fractures
B419194	599498.3	5462985.2	458.535126		
B419195	599422.5	5463095.3	480.384155		
B419196	599410	5463109.7	482.276764		
B419197	599443.6	5463086.4	475.060242		
B419198	599142	5462807	518	PEG	Pink K-feldspar up to 20cmx20cm, black oxides up to .5cm, sample is on edge of 30cmx30cm quartz pod, fine grain silver and yellow muscovite
B419199	599134	5462872	526	PEG	White K-feldspar up to 20cmx20cm, fine grain black oxides in K-feldspar, cubic oxide in quartz .5cmx.5cm, white albite inclusions in quartz, fine grain silver muscovite up to books up 3cm
B419201	598891	5462825	520	PEG	White K-feldspar up to 15cmx15cm, disseminated green muscovite books up to 10cm, albite inclusion in quartz
B419202	598764	5462769	524	PEG	Pink K-feldspar, disseminated yellow muscovite fine grain to books of 5cm, graphic quartz texture in K-feldspar
B419203	598722	5462838	497	PEG	Pink K-feldspar up to 30cmx30cm, disseminated medium grain black oxides, possible triphlyte crystals up to 1cmx5cm could also be tourmaline
B419204	598775	5462868	484	PEG	White to pink K-feldspar, cubic black oxides in K-feldspar, quartz has a blueish hue to it , silver-yellow muscovite books up to 5cm, white albite inclusions in quartz
B419205	598887	5462483	496	PEG	White K-feldspar up to 20cmx20cm, Quartz pods up to 15cmx15cm, strong fe staining on quartz fractures

SampleID	Easting	Northing	Elevation	Rock Type	Sampling Notes
B419206	598321	5462754	478	PEG	This samples is in a red garnet rich zone with fine grain red garnet, yellow muscovite and white albite dominant over K-feldspar
B419207	598455	5462458	505	PEG	This sample is 20m South of B419191, Pink K-feldspar, fine grained yellow muscovite up to books of 3cm, localized fine grain black oxides
B419208	598482	5462420	508	PEG	This sample is ~50m South of previous sample on a separate dyke, white K-feldspar up to 20cmx20cm, quartz pods up to 30cmx30cm, zonation is visible, bands of disseminated books of muscovite up to 5cm, K-feldspar has blueish hue, MV contact 5m to north
B419209	598406	5462370	494	PEG	This sample is in a quartz rich zone with pods up to 45cmx30cm, white blocky K-feldspar up to 25cmx25cm, sample consistsof mainly K-feldspar with a blueish hue to it, green muscovite books up to 5cm
B419211	597939	5462846	476	PEG	Sample is in a granite, on west side of creek at contact with MV, Pink K-feldspar up to 5cmx5cm, fine grain yellow muscovite, white albite inclusions in quartz
B419212	598404	5462800	472	PEG	Sample is at a side exposure with 4m in heigh exposed, white K-feldspar with disseminated round and cubic black oxides, localized fine grain red garnets
B419213	598240	5462405	477	PEG	White K-feldspar up to 20cmx20cm, green muscovite fine grain to books up to 3cm, minor round black oxides, minor fine grain red garnets
B419214	598181	5462414	472	PEG	White K-feldspar up to 20cmx20cm, fine grain silver muscovite to books of 2cm, minor fine grain round black oxides, sample is 2m from MV contact
B419215	598227	5462295	477	PEG	White blocky K-feldspar up to 20cmx20cm, quartz pods up to 15cmx15cm, fine grain green muscovite to books up to 10cm
B419216	598594	5462178	481	MV	Sample in MV 10cm rusty quartz vein, diss fine grain pyrite, moderate fe, moderate chlorite alteration
B419217	598501	5462482	479	PEG	Sample is next to B419194, large quartz core 1mx1m, white K-feldspar up to 30cmx30cm, yellow-silver-green muscovite fine grain to books up to 10cm, sample consists mostly of K-feldspar and muscovite
B419218	599392	5462914	500	PEG	White-pink K-feldspar up to 30cmx30cm, quartz pod 45cmx20cm, green muscovite books up to 5cm, minor fine grain black oxides
B419219	599237	5462877	519	PEG	Sample is 30m west of main showing, quartz pods up to 30cmx30cm, white K-feldspar up to 30cmx30cm, green muscovite fine grain up to books of 10cm, moderate fine grain black oxides
B419221	599217	5462851	518	PEG	Sample is 60m west of main showing, white K-feldspar up to 30cmx30cm, silver-yellow muscovite up to books up 10cm, localized fine grain red garnets
B419222	599199	5462842	519	PEG	Sample is 80m west of main showing, white K-feldspar up to 20cmx20cm, sample consist of mainly K-feldspar with minor amounts fine grain black oxides
B419223	599250	5462845	510	PEG	Same is 30m Southwest of main showing, white K-feldspar up to 30cmx30cm and quartz pods the same size, minor fine grain silver muscovite, sample mostly quartz and K-feldspar
B419224	598998	5462765	522	PEG	This area has poor exposure ~1m white-pink K-feldspar, fine grain green-yellow muscovite, minor amount of quartz, disseminated fine grain red garnets

SampleID	Easting	Northing	Elevation	Rock Type	Sampling Notes
B419225	598870	5462605	503	PEG	Same is in dyke that is south of main dyke, MV contact 5m away, white-light pink K-feldspar up to 15x15cm, sample consists of mainl K-feldspar with minor black needle like and cubic oxides
B419226	599262	5462883	506	PEG	Sample is 8m to west of channel 1, white K-feldspar with minor oxides, green muscovite in books up to 5cm, localized fg red garnets, possible green triphylite crystal .5cmx.5cm
B419227	599259	5462881	509	PEG	Sample is 3m west of channel 1, lower part of sample is disseminated with fine grain red garnets and green muscovite, upper part has mainly white K-feldspar, 2cmx1cm elongated green triphylite crystal
B419228	599236	5462862	511	PEG	Sample is 30m west of channel 1, white K-feldspar with fine to medium grain black oxides, disseminated fine grain red garnets and yellow muscovite
B419229	599238	5462856	512	PEG	Sample is 50m west of channel 1,white K-feldspar, large quartz core 30x30cm, green muscovite up to 5cm, localized fine to medium grain red garnets, white albite inclusions in quartz
B419231	599248	5462833	507	PEG	White K-feldspar with disseminated fine to medium grain black oxides, strong fe around some oxides, disseminated fine grain garnets, white albite inclusions in quartz
B419232	599249	5462845	504	PEG	30cmx30cm white K-feldspar and quartz pods,K-feldspar has faint streaks of purple in fractures, fine grain green muscovite, minor black tourmaline
B419233	599223	5462843	509	PEG	White K-feldspar with moderate fe, K-feldspar has green alteration on fractures, fine grain yellow muscovite 40%, localized fine grain red garnets
B419234	599201	5462843	514	PEG	Sample is 1m away from MV contact or raft, pink K-feldspar with major amount of black tourmaline? Fine grain green muscovite
B419235	599207	5462842	508	PEG	White-tan K-feldspar, sugary albite layer in sample, white albite inclusions in quartz, fine grain red garnets
B419236	599249	5462846	508	PEG	Sample is 25m to south west of channel 1 on south side of road, 30cmx30cm white K-feldspar, fine grain green muscovite on quartz fractures
B419237	599250	5462846	505	PEG	Sample is .5m from previous sample, white K-feldspar with creamy colour inclusions, minor amount fine grain green muscovite
B419238	599252	5462849	509	PEG	Sample is .5m from previous sample, light pink K-feldspar, 20% fine grain green-yellow muscovite
B419239	599249	5462854	507	PEG	Sample is 5m north of previous sample, white-cream K-feldspar, strong fe on fractures, green muscovite fine grain up to books of 4cm
B419241	599393	5462911	497	PEG	30cmx30cm light pink K-feldspar, large quartzs core 30cm with white albite inclusions, fine grain black oxides, green muscovite books up to 2cm
B419242	599391	5462919	525	PEG	White K-feldspar, fine grain green muscovite up to books of 5cm, fg round black oxides in K-feldspar, white albite inclusions in quartz
B419243	598538	5462943	489	PEG	Large quartz core, 3x1m sample is of white K-feldspar on outside of core with books of green muscovite up to 10cm
B419244	598538	5462945	489	PEG	.5m from previous sample, white-pink K-feldspar, fg black oxides, white albite inclusions in quartz
B419245	598537	5462945	480	PEG	.5m from previous sample, pink K-feldspar with needle like black oxides, quartz with white albite inclusions

SampleID	Easting	Northing	Elevation	Rock Type	Sampling Notes
B419246	598542	5462941	490	PEG	3m E of previous sample, pink K-feldspar with needle like black oxides, books of green muscovite and brown biotite with white albite inclusion between them up to 5cm
B419247	598546	5462952	489	PEG	This sample is 25m to the E of previous sample, white K-feldspar, disseminated black tourmaline, fine grain green muscovite, quartz with white albite inclusions
B419248	598566	5462950	491	PEG	This sample is .5m from previous sample, light pink K-feldspar with minor quartz and fg round black oxides
B419249	598568	5462952	491	PEG	This sample is 1m W of previous sample, sample is mostly pink K-feldspar with minor fine grain black oxides, minor fine grain green muscovite
B419251	599258	5462883	510	PEG	Sample is .5m W of channel 1, white K-feldspar with inclusions of a yellow mikly mineral, fine grain silver muscovite, minor black cubic oxides
B419252	599260	5462889	515	PEG	Sample is 7m W of previous sample in a sheer zone or contact between two pegmatite zones, white K-feldspar, black oxides in fractures, minor fine grain silver muscovite
B419253	599065	5462776	524	PEG	Tan K-feldspar with medium grain black oxides, white albite inclusions in quartz, moderate fine grain green muscovite
B419254	599064	5462776	523	PEG	Sample is 1m from previous sample, white-pink K-feldspar, books of silver muscovite up to 2cm, quartz has minor Fe on fractures
B419255	599060	5462772	523	PEG	Sample is 2m from previous sample, pink K-feldspar, books of green muscovite up to 5cm, white albite inclusions in quartz
B419256	599055	5462763	521	PEG	Boulder beside road, could have been dug up from road construction, 1cmx4cm unknown transparent mineral disseminated through sample, moderate black tourmaline
B419257	598205	5462347	467	PEG	Sodic aplite, white albite, green muscovite up to books of 5cm, minor fine grain orange garnets, fine grain round black oxides
B419258	598211	5462350	468	PEG	Sodic aplite, white albite, disseminated fine grain red garnets, fine grain green muscovite
B419259	598214	5462351	471	PEG	Sodic aplite, white albite, disseminated fine grain red garnets, fine grain green muscovite
B419261	598217	5462355	471	PEG	White K-feldspar, fine grain green muscovite up to books of 5cm, fg round black oxides in K-feldspar, white albite inclusions in quartz
B419262	598208	5462351	472	PEG	White k-feldspar, white aplite and albite? Minor fine grain green muscovite, minor round black oxides
B419263	598199	5462351	472	PEG	White K-feldspar, sugary albite, unknown white mineral in quartz 1cmx1cm, green muscovite books up to 1cm
B419264	598202	5462352	472	PEG	White albite and aplite, fine grain green muscovite with chlorite alteration? Fine grain silver muscovite
B419265	598184	5462348	471	PEG	Sample is 15m W of previous sample, white K-feldspar, cloudy quartz with unknown white crystal 5cmx2cm, red-orange fine grain garnets, fine grain green muscovite
B419266	598177	5462333	472	PEG	Sample is 15m W of previous sample, white K-feldspar, green muscovite books up to 4cm, disseminated fine grain red garnets, minor fine grain black cubic oxides
B419267	598191	5462342	472	PEG	White K-feldspar with minor fine grain black oxides, moderate fine grain green muscovite and biotite, moderate fe on fractures in K-feldspar, clear quartz with white albite inclusions
B419268	598175	5462340	475	PEG	White K-feldspar, clear quartz with white albite inclusions, disseminated fine grain red garnets, books of muscovite and bitotie together up to 10cm

SampleID	Easting	Northing	Elevation	Rock Type	Sampling Notes
B419269	598166	5462345	478	PEG	White K-feldspar, disseminated fine to medium grain cubic black oxides, books of muscovite and biotite with white albite between them
B419271	597182	5462214	491	PEG	Outcrop has 30cmx30cm pink K-feldspar crystals, sample consists of pink K-feldspar, fine grain green muscovite and biotite, fine grain black oxides this dyke is 25m wide striking 078
B419272	597162	5462210	497	PEG	Sample is 20m W of previous sample on same dyke, pink k_feldspar with fine grain black oxides, white albite, disseminated fine to medium grain red garnets, moderate fine grain yellow muscovite
B419273	597203	5462468	592	PEG	Pink K-feldspar, fine grain green muscovite up to books of 5cm, white albite inclusions in quartz, moderate fe on quartz fractures
B419274	597203	5462474	507	PEG	Sample is 4m west of previous sample. Pink K-feldspar, minor albite inclusions in quartz, green muscovite in books up to 10cm
B419275	597491	5462148	500	PEG	.5m dyke striking 016 white K-feldspar with minour black tourmaline, green muscovite books up to 5cm
B419276	597458	5462181	498	PEG	3m pegmatite expsoure with no contact visible on either side, white K-feldspar up to 20cmx20cm, localized quartz, green muscovite fine grain to books of 5cm, minor fe on quartz, 1cmx1xcm blueish quartz crystals, fine grain black oxides
B419277	597498	5462240	498	PEG	.5m wide dyke striking 050, fine grain sugary aplite, white K-feldspar with black tourmaline, fine grain yellow muscovite
B419278	597507	5462330	503	PEG	Pink K-feldspar with fine grain black cubic oxides, black tourmaline, fine grain green muscovite
B419279	597607	5462362	505	PEG	30m wide dyke with no visible contact on either side, pink K-feldspar, fine grain green muscovite and biotite
B419281	597673	5462441	510	PEG	25m wide dyke with no visible contact on either side, large quartz core 4mx20m, white K-feldspar up to 20cmx20cm, fine grain cubic black oxides in K-feldspar and minor fe on fractures
B419282	597660	5462379	504	PEG	Sample is 5m E of previous sample, mostly light pink K-feldspar, fine grain green muscovite, white albite inclusions in quartz
B419283	597649	5462372	504	PEG	Sample is 5m E of previous sample, white K-feldspar minor fe on fractures, fine to medium grain yellow muscovite, moderate fine grain red garnets
B419284	597658	5462371	504	PEG	Sample is 8m E of previous sample, microcline perthite with blue hue, disseminated fine grain red garnets, fine grain green muscovite, white albite inclusions in quartz
B419285	597647	5462371	500	PEG	Sample is 5m E of previous sample, on edge of quartz core, white K-feldspar with fine grain round black oxides, fine grain green muscovite, white albite inclusions in quartz, minor fe
B419286	597646	5462377	504	PEG	Sample is 4m N of previous sample, in a fault zone between pegmatite zones, white K-feldspar, strong fe throughout sample, fine grain yellow muscovite, fine grain black oxides
B419287	598999	5462765	524	PEG	Sample is on south side of main dyke 300m SW of main showing, white K-feldspar, fine grain green muscovite and biotite, white albite inclusions in quartz
B419288	599004	5462766	520	PEG	Sample is 6m S of previous sample, pink K-feldspar and white albite, fine grain black oxides in K-feldspar, fine to medium grain green muscovite
B419289	599008	5462762	524	PEG	Sample is 5m SE of previous sample, white albite in a matrix of fine to medium grain silver muscovite 40%, moderate fine to medium grain red garnets

SampleID	Easting	Northing	Elevation	Rock Type	Sampling Notes
B419291	599005	5462752	523	PEG	Sample is 10m SW of previous sample, near granite contact (Outside zone of main dyke) Strong fe, minor biotite and yellow muscovite, white albite inclusions in quartz
B419292	598889	5462622	515	PEG	Sample is .5m away from MV contact northern contact of dyke that is ~40m wide striking 072 , tan K-feldspar, black cubic crystal .5cmx.5cm, possible lithiophilite crystal 1cmx1cm, disseminated fine to medium grain black oxides, strong fe throughout sample
B419293	598895	5462605	507	PEG	Sample is 20m S of previous sample in same dyke, light pink microcline perthite, tan colour mineral in quartz fractures, strong tourmaline on fractures, light purple hue tan colour mineral, moderate fine grain green muscovite
B419294	598903	5462606	504	PEG	Sample is 7m W of previous sample, white K-feldspar with minor fine grain black oxides, books of green muscovite up to 3cm, minor albite in sample, disseminated fine to medium grain red garnets
B419295	598870	5462599	512	PEG	Pink K-feldspar with minor fine grain round black oxides, small inclusions of albite, fine grain green muscovite, graphic quartz texture in K-feldspar
B419296	598876	5462604	512	PEG	Pink K-feldspar with minor albite inclusions and fine grain black oxides, green muscovite books up to 5cm
B419297	598876	5462597	514	PEG	Sample is of a sodic aplite band, disseminated fine grain red-orange gar, green-yellow muscovite and possible black oxides, whole sample has a moderate green alteration
B419298	598870	5462602	517	PEG	White K-feldspar with disseminated fine to medium grain black oxides, white albite inclusions in quartz, moderate fe throughout sample
B419299	598869	5462598	517	PEG	Sample is in a contact between pegmatite zones, 40% fine to medium grain green muscovite with books up to 10cm, white albite inclusions between muscovite books, moderate fe on muscovite books, fine grain black oxides
B419301	598862	5462601	512	PEG	Sample is 2m S of MV contact, pink K-feldspar, fine grain biotite and muscovite, strong fe throughout sample, white albite inclusions in quartz
B419302	598867	5462609	514	MV	Sample is 2m N of previous sample in MV, disseminated fine grain pyrrhotite and pyrite, moderate chlorite alteration, minor silica
B419303	598856	5462589	511	PEG	Pink K-feldspar with graphic quartz texture, disseminated fine grain red garnets, fine grain green muscovite to books up to 3cm, minor fe on K-feldspar fractures
B419304	598665	5462525	510	PEG	2mx2m exposure in dirt beside road, unsure of which dyke or size of dyke, white K-feldspar, fine to medium grain red garnets, fine grain green muscovite, white albite inclusions in quartz
B419305	598897	5462605	513	PEG	This sample is a sample beside B419293, bulk sample, white K-feldspar, tan colour unknown mineral with black tourmaline on fractures, fine grain green muscovite with books up to 5cm
B419306	598906	5462606	519	PEG	Sample is 5m SE of previous sample, white K-feldspar, disseminated fine grain green muscovite, minor fine grain red garnets
B419307	598905	5462693	512	PEG	3m S of previous sample, white K-feldspar, minor amount quartz, minor fine grain green muscovite
B419308	598537	5462553	509	PEG	Pink K-feldspar with white albite inclusions, disseminated fine to medium grain lithiophilite, fine to medium grain yellow muscovite, minor fine grain red garnets
B419309	598556	5462566	505	PEG	White K-feldspar with white albite inclusions, fine grain yellow muscovite to books up to 3cm, minor fine grain biotite

SampleID	Easting	Northing	Elevation	Rock Type	Sampling Notes
B419311	598557	5462568	507	PEG	White K-feldspar with minor fe on fractures and minor fine grain black oxides, fine grain yellow muscovite, white albite inclusions in quartz
B419312	598500	5462566	502	PEG	Boulder grab, similar outcrop near by but limited expsoure, likely broke off during road construction, Pink K-feldsparwith light pink alteration on fractures, disseminated fine to medium grain round and cubic black oxides, fine grain to books of green muscovite up to 5cm
B419313	598477	5462546	495	PEG	White albite and aplite, fine to medium grain red garnets, fine grain black oxides, fine grain green muscovite and biotite
B419314	598475	5462538	490	PEG	Sample is 4m SW from previous sample, white K-feldspar with fine grain black oxides, unknown tan colour mineral inclusions in quartz
B419315	598477	5462546	493	PEG	White K-feldspar and white albite, green muscovite and biotite books up to 5cm, strong fe throughout sample, fine to medium grain red garnets
B419316	598820	5462447	499	PEG	White K-feldspar with graphic quartz texture, moderate fe on fractures, fine to medium grain green muscovite and biotite
B419317	598824	5462452	499	PEG	White K-feldspar, disseminated fine grain biotite, fine grain sodic aplite, moderate fe throughout sample
B419318	598828	5462453	500	PEG	2m E of previous sample, pink K-feldspar, quartz has a purple hue, biotite and green muscovite in books up to 5cm
B419319	598825	5462448	501	PEG	Pink K-feldspar with disseminated fine grain black oxides, dissiminated fine to medium grain red-orange garnets, medium grain biotite and yellow muscovite
B419321	597153	5462870	506	PEG	Sample is in a 70m wide exposure, orange K-feldspar, strong fe, muscovite and biotite medium grain
B419322	600428	5463338	500	PEG	Orange K-feldspar crystals 10cmx10cm, fine grain biotite in sample
B419323	599395	5462959	502	PEG	White K-feldspar with minor fine grain black oxides, books of yellow muscovite up to 4cm
B419324	599400	5462958	499	PEG	White K-feldspar with disseminated fine to medium grain round and cubic black oxides, minor amount of purple lepidolite in fractures, moderate black tourmaline, quartz has a purple hue
B419325	599393	5462962	499	PEG	White K-feldspar, fine grain yellow muscovite to books up to 5cm, white albite inclusions in quartz, localized fine grain red garnets
B419326	599429	5462964	496	PEG	Pink K-feldspar, dark purple quartz with minor white albite inclusions, minor black tourmaline
B419327	599429	5462964	496	PEG	Pink K-feldspar, white albite inclusions in quartz, green muscovite up to books of 5cm, medium grain cubic black oxides, unknown black crystal 3cmx1cm
B419328	599426	5462961	499	PEG	Pink K-feldspar some of it has a dark purple atleration with a green mineral inclusion 2cmx1cm, minor black tourmaline
B419329	599431	5462957	498	PEG	White K-feldspar and white albite, fine grain green muscovite and biotite, moderate fe
B419331	599438	5462962	498	PEG	White K-feldspar and albite, fine to medium grain yellow muscovite and biotite, fine fine grain black oxides
B419332	598906	5462213	471	PEG	Pink K-feldspar up to 30cmx30cm, dark green muscovite 10cmx5cm, disseminated medium grain black oxides
B419333	598875	5462202	469	PEG	Pink K-feldspar with disseminated medium grain round and cubic black oxides, minor dark green muscovite
B419334	598875	5462207	465	PEG	1m SW of previous sample, 2m from MV contact, pink K-feldspar with moderate black tourmaline, quartz has a purple/green hue

SampleID	Easting	Northing	Elevation	Rock Type	Sampling Notes
B419335	598857	5462201	468	PEG	Pink K-feldspar with fine to medium grain black oxides, fine grain green muscovite up to books of 5cm, quartz has a pink albite inclusion
B419336	602493	5463222	495	PEG	1m wide dyke striking 070, zonation visible, white-pink K-feldspar with fine grain black oxides, fine grain green muscovite to books up to 5cm
B419337	602293	5463335	501	PEG	Pink K-feldspar, fine grain silver muscovite, minor black tourmaline, unknown dark green cubic crystal 2cmx2cm
B419338	601484	5463376	518	PEG	10m dyke exposure with no visible contact on either side, zonation visible, pink k-feldspar up to 20cmx20cm, fine grain yellow muscovite
B419339	601414	5463379	510	PEG	20m dyke exposure no contact visible on either side, zonation visible, books of green muscovite up to 10cm, white K-feldspar, unknown tan mineral
B419341	600750	5463328	520	PEG	Pegmatite dyke outcropping with minimal exposure, pink K-feldspar, fine grain silver to yellow muscovite, fine grain black oxides
B419342	601391	5463313	530	PEG	Pink K-feldspar, green to silver muscovite with books up to 5cm, minimal exposure in area, white albite inclusions in quartz
B419343	602447	5463510	503	PEG	Sample in a dyke outcropping in swamp, 20m wide with no contact visible on either side, sample consists of pink K-feldspar, white albite inclusions in quartz, fine grain green muscovite
B419344	602447	5463512	504	PEG	Sample is E of previous sample, large quartz pods, fine grain green muscovite in books up to 5cm, tan color K-feldspar, white alnite inclusions in quartz
B419345	602450	5463512	504	PEG	Sample is 2m E of previous sample, pink K-feldspar with graphic quartz texture, green muscovite in books up to 3cm, white albite inclusions in quartz
B419346	602576	5463455	506	PEG	Sample is in area with multiple cross cutting dykes in MV .5m wide, sample is of white K-feldspar, green alteration in parts of sample, moderate Fe on quartz fractures
B419347	602494	5463425	507	PEG	Sample is in a 20m dyke striking 070, MV contact visible on south side, white K-feldspar, disseminated fine grain red garnets, fine grain green muscovite
B419348	602549	5463437	506	PEG	White K-feldspar, white albite inclusions in quartz, fine grain green muscovite, Fe on K-feldspar fractures
B419349	602371	5463325	492	PEG	10m dyke exposure, pink K-feldspar, green muscovite up to 15cm, white K-feldspar with minor fine grain black oxides
B419351	601133	5463349	535	PEG	Sample is on a topo high with minimal exposure, zonation visible, sample is .5m away from MV contact, strong Fe, white K-feldspar with blue alteration, minor fine grain silver muscovite
B419352	601189	5463296	516	PEG	Wall exposure with visible zonation, bands of sodic aplite, white K-feldspar and white albite, green muscovite books up to 4cm, minor fine grain red garnets
B419353	601175	5463302	525	PEG	This sample is 4m E of previous sample, sample is in a sodic aplite band, fine grain red-orange garnets, fine grain biotite and yellow muscovite
B419354	601413	5463380	501	PEG	Sample is 4m W of B419339, white K-feldspar, white albite inclusions in quartz, green muscovite in books up to 5cm
B419355	602759	5463317	493	PEG	10m dyke exposure with MV contact visible on N side, striking 080, pink K-feldspar with quartz inclusions that have a purple hue, fine to medium grain cubic oxides, localized fine grain red garnets

SampleID	Easting	Northing	Elevation	Rock Type	Sampling Notes
B419356	602954	5463357	504	PEG	5m dyke exposure with no visible contact on either side, white-pink K-feldspar, bands of green muscovite with books up to 4cm, localized fine grain red garnets
B419357	602963	5463619	490	PEG	Large cliff exposure that is aprox 600m long and 8m high, 25m dyke striking 078, white-pink K-feldspar, fine grain green muscovite, moderate fe
B419358	602944	5463623	494	PEG	Separate dyke from previous sample, 35m wide, zonation visible, 45cmx45cm quartz pods, pink K-feldspar with fine grain black oxides, green muscovite books up to 4cm, yellow alteration on K-feldspar fractures
B419359	602910	5463659	494	PEG	Separate dyke from previous sample, 60m wide, zonation visible, quartz rich zone with salmon pink K-feldspar, books of yellow muscovite up to 4cm, white albite inclusions in quartz
B419361	602943	5463681	505		Area has no exposure, dug 10"
B419362	603072	5463666	509	PEG	Sample is of a outcropping dyke 7m wide with no contact visible on either side, pink K-feldspar, fine grain green muscovite, white albite inclusions in quartz, tan colo unknown mineral
B419363	603387	5463714	519	PEG	20m dyke exposure striking 090, pink K-feldspar with graphic quartz intergrowth, zonation visible, green muscovite books up to 5cm, minor white albite
B419364	603389	5463706	496	PEG	Sample is 6m N of previous sample, white-pink K-feldspar, bands of green muscovite books up to 4cm, moderate white albite
B419365	603238	5463782	510	PEG	White K-feldspar, green muscovite fine grain to books up to 3cm, green mineral in with muscovite possible tourmaline, white albite inclusions in quartz
B419366	599791	5464372	496	PEG	Sample is in granitic pegmatite, orange K-feldspar, quartz pod 10cmx10cm, fine grain red garnets
B419367	598766	5462704	513	PEG	White albite with graphic muscovite, green crystal 1cmx1cm possible tourmaline, minor fe throughout sample
B419368	598763	5462700	515	PEG	White K-feldspar with blueish hue, green muscovite books up to 4cm, this sample is 3m S of previous sample
B419369	598833	5462773	512	PEG	Sample consists of all light pink K-feldspar
B419371	598834	5462771	516	PEG	Sample 1m from previous sample, light pink K-feldspar with medium grain black cubic oxides, fine to medium grain red garnets, white albite inclusions in quartz
B419372	598838	5462776	512	PEG	Sample is 7m E from previous sample in same dyke, clear quartz with white albite inclusions, 1cm red garnet, fine grain green muscovite
B419373	598894	5462745	516	PEG	Same dyke as previous sample, fine grain green-silver muscovite, white albite inclusions in quartz
B419374	599198	5462878	521	PEG	This sample is 40m along strike to the E of Channel 1, sample is mostly K-feldspar, 90% with minor quartz
B419375	599371	5462896	503	PEG	Sample is on south side of main dyke, light pink K-feldspar, green muscovite with books up to 5cm, disseminated fine grain red garnets, quartz has a purple hue
B419376	599392	5462894	493	PEG	White K-feldspar, minor sodic albite, minor green muscovite books up to 3cm, minor fe
B419377	599380	5462903	497	PEG	White K-feldspar, fine grain green muscovite up to books of 5cm, fg round black oxides in K-feldspar, white albite inclusions in quartz
B419378	599433	5462918	503	PEG	White K-feldspar, green muscovite books up to 5cm, moderate fe, minor albite incusions in quartz

SampleID	Easting	Northing	Elevation	Rock Type	Sampling Notes
B419379	599443	5462935	492	PEG	White-pink K-feldspar, white albite inclusions in quartz, minor black oxides in K-feldspar
B419381	599452	5462930	486	PEG	Pink K-feldspar with minor black oxides and tourmaline, green muscovite books up to 5cm, minor white albite inclusions in quartz
B419382	599487	5462942	484	PEG	White-pink K-feldspar, yellow muscovite books up to 5cm, white albite inclusions in quartz
B419383	599488	5462949	494	PEG	Pink K-feldspar with minor fine grain round black oxides, small inclusions of albite, fine grain green muscovite, graphic quartz texture in K-feldspar
B419384	599507	5462964	489	PEG	Pink K-feldspar and white albite, disseminated fine grain green muscovite, minor fine grain biotite, white albite inclusions in quartz
B419385	599532	5462973	488	PEG	Pink K-feldspar, tan albite inclusions in quartz, green muscovite books up to 5cm
B419386	599536	5462962	485	PEG	5m S of previous sample, white sodic albite, fine grain red garnets, minor fine grain black oxides
B419387	599509	5462976	492	PEG	White-tan K-feldspar, minor white albite, fine grain green muscovite, sample has a purple alteration to it
B419388	599520	5462983	486	PEG	Light pink K-feldspar, sample on edge of quartz pod, fine grain green muscovite, minor white albite inclusions in quartz
B419389	599520	5462977	486	PEG	Light pink K-feldspar, fine grain green muscovite, minor fe, quartz has a sugary texture, minor albite
B419391	599524	5462996	498	PEG	Pink K-feldspar, moderate white albite, fine grain green muscovite and biotite, unknown chalky mineral
B419392	599535	5463001	482	PEG	White K-feldspar, quartz with albite inclusions, fine grain green muscovite, unknown green mineral .5cmx.5xm crystals
B419393	599545	5462998	482	PEG	Pink K-feldspar with graphic quartz intergrowth, minor fine grain green muscovite, minor white albite
B419394	599554	5462996	475	PEG	Fine grain sugary albite, fine grain green muscovite, fine grain black biotite? Strong fe
B419395	599547	5462983	490	PEG	Pink K-feldspar, fine grain green muscovite and biotite with moderate fe, minor quartz and white albite
B419396	599575	5462973	490	PEG	Pink microcline perthite, green-yellow muscovite books up to 5cm, minor K-feldspar with blueish alteration
B419397	599255.9	5462883.5	512		Channel 4
B419398	599255.8	5462884.5	512		Channel 4
B419399	599255.6	5462885.5	512		Channel 4
B419401	599255.5	5462886.5	512		Channel 4
B419402	599479	5462969	492	PEG	White K-feldspar, cream albite inclusions in quartz, green-yellow muscovite books up to 4cm
B419403	599474	5462979	496	PEG	Nothern end of Highstone dyke, no visible contact, large quartz core, pink K-feldspar up to 30cmx30cm, fine grain green-yellow muscovite, minor fine grain black oxides
B419404	599511	5462982	488	PEG	White K-feldspar, sugary albite, fine grain green-yellow muscovite, minor black tourmaline, white albite inclusions in quartz
B419405	599505	5462991	494	PEG	Zonation visible, white-pink K-feldspar, minor black tourmaline, green muscovite books up to 5cm, white albite inclusions in quartz
B419406	599540	5462981	491	PEG	Sample is mostly white K-feldspar, minor fine grain green muscovite
B419407	599537	5462982	485	PEG	White K-feldspar, books of green muscovite up to 10cm, white albite inclusions in quartz
B419408	599539	5462985	485	PEG	White K-feldspar, fine grain green muscovite, disseminated fine grain red garnets, minor fine grain black oxides
B419409	599555	5462973	494	GRA	Silicified granite, minor fe

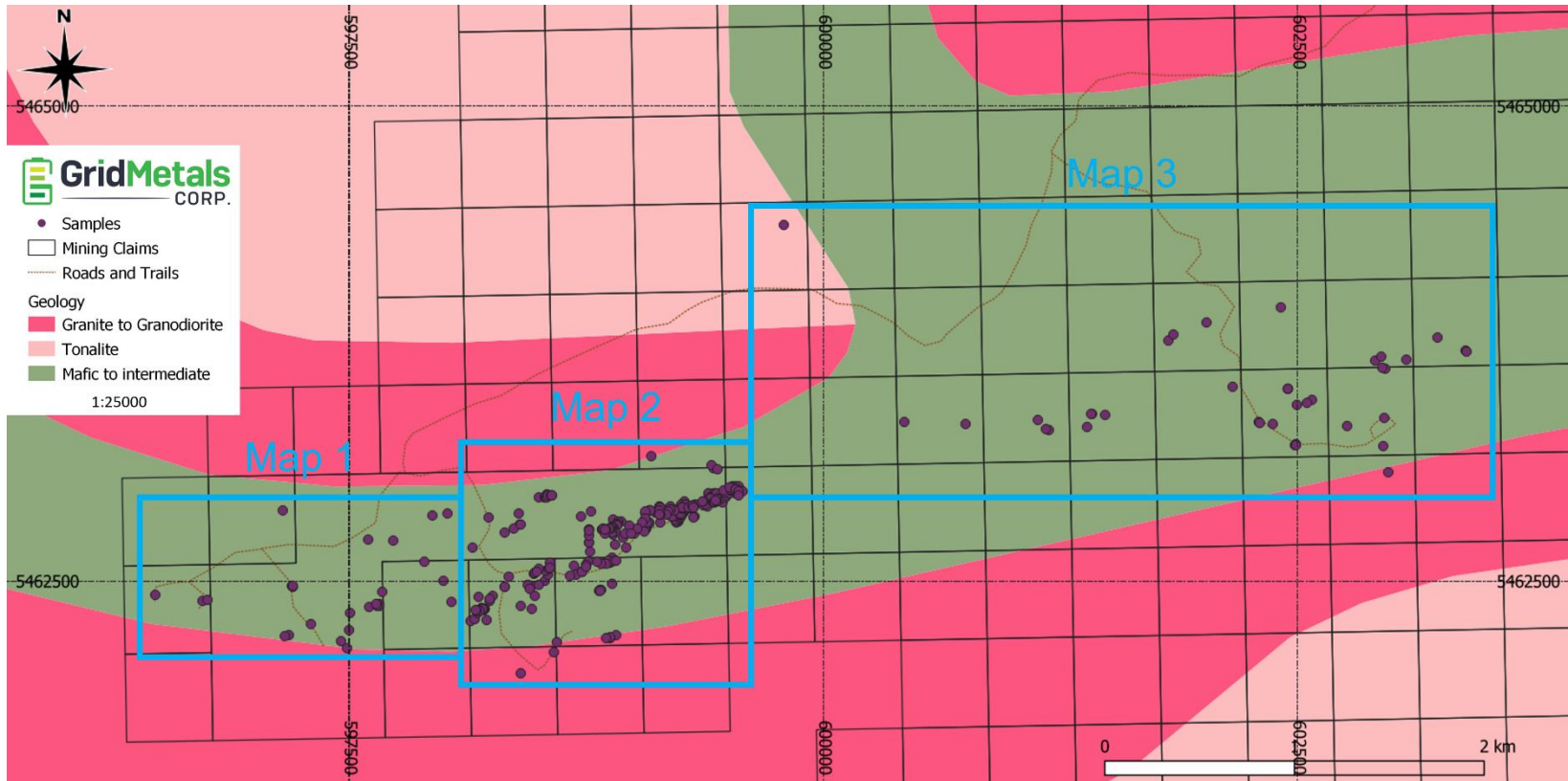
SampleID	Easting	Northing	Elevation	Rock Type	Sampling Notes
B419411	599554	5462953	486	PEG	Southern contact of Highstone dyke, pink- red K-feldspar, minor fine grain yellow muscovite, minor black tourmaline, minor quartz
B419412	599292	5462883	503	PEG	Quartz with cream albite inclusions, green muscovite books up to 3cm, minor fine grain red garnets
B419413	599291	5462888	505	PEG	Tan K-feldspar, green muscovite books up to 4cm, minor quartz with white albite inclusions, minor black tourmaline, minor fine grain red garnets
B419414	599312	5462899	500	PEG	Pink-orange K-feldspar, fine grain yellow muscovite and biotite, minor black tourmaline
B419415	599310	5462898	507	PEG	Pink K-feldspar, minor black tourmaline, green muscovite books up to 4cm, moderate fine grain red garnets, white albite inclusions in quartz
B419416	599315	5462889	504	PEG	Light pink K-feldspar, fine grain green muscovite, white albite inclusions in quartz, minor fine grain black oxides, minor fe
B419417	599315	5462889	504	PEG	1m W of previous sample in muscovite rich zone, 30cm vein of coarse grain muscovite, sample is 70% muscovite, minor white K-feldspar, minor quartz
B419418	599402	5462941	498	MV	Sample is in MV raft in Highstone dyke, moderate chlorite, minor fine grain pyrite and pyrrhotite, strong fe
B419419	599398	5462931	505	PEG	Pegmatite in MV raft, fine grain green muscovite and biotite, moderate fe
B419421	599404	5462929	505	MV	Rusty silicified MV in raft, disseminated fine grain pyrite and pyrrhotite
B419422	599407	5462936	498	PEG	At contact with MV raft, fine grain biotite and tourmaline, minor fe, sample has a blueish alteration
B419423	599422	5462916	497	PEG	Sample is mostly white K-feldspar, minor aplite, moderate fe on white K-feldspar
B419424	599426	5462917	497	PEG	White K-feldspar 90%, minor green muscovite
B419425	599423	5462914	493	PEG	1m S of previous sample, sodic albite zone, fine grain red garnets, fine grain green muscovite, fine grain black oxides
B419426	599425	5462912	502	PEG	3m W of previous sample, white K-feldspar, minor fine grain black oxides, minor fine grain green muscovite, white albite inclusions in quartz
B419427	599439	5462921	499	PEG	White albite, fine grain yellow muscovite and biotite, minor fine grain red garnets, moderate black tourmaline
B419428	599439	5462920	493	PEG	Sample is mostly quartz with white albite inclusions, minor tan K-feldspar, minor fine grain green muscovite
B419429	599434	5462926	496	PEG	White K-feldspar, graphic quartz intergrowth, fine grain green muscovite and biotite, minor black tourmaline
B419431	599370	5462918	501	PEG	Sample is mostly quartz with white albite inclusions, minor white K-feldspar
B419432	599364	5462921	506	PEG	White-cream K-feldspar, quartz with yellow albite incusions, moderate fe on quartz fractures, minor green muscovite
B419433	599217	5462870	517	PEG	White K-feldspar, fine grain green muscovite, minor quartz, minor fe on K-feldspar fractures
B419434	599196	5462876	521	PEG	Light pink K-feldspar, minor cream albite inclusions in quartz
B419435	599182	5462866	521	PEG	Fine grain sugary albite, fine grain green muscovite, fine grain black biotite? Strong fe
B419436	599175	5462851	520	PEG	Microcline perthite, cloudy quartz, 30% green muscovite, minor white albite inclusions in quartz
B419437	599142	5462852	521	PEG	White K-feldspar with graphic quartz intergrowth, minor green muscovite, disseminated black tourmaline, minor fe
B419438	599135	5462848	524	PEG	White K-feldspar, green muscovite books up to 3cm, disseminated fine grain red garnets, minor albite, minor fe
B419439	599135	5462851	523	PEG	Quartz with white albite inclusions, minor fine grain green muscovite, minor pink K-feldspar

SampleID	Easting	Northing	Elevation	Rock Type	Sampling Notes
B419441	599083	5462806	520	PEG	White K-feldspar with minor fine grain black oxides, cream albite inclusions in quartz, minor green muscovite books up to 3cm
B419442	599071	5462808	520	PEG	Microcline perthite, cloudy quartz, 30% green muscovite, minor white albite inclusions in quartz
B419443	599060	5462828	520	PEG	White albite, fine grain silver muscovite, fine grain red garnets, minor black tourmaline
B419444	599044	5462807	522	PEG	White K-feldspar, white albite inclusions in quartz, minor black tourmaline, minor fine grain green muscovite
B419445	599020	5462778	523	PEG	White K-feldspar and white albite, minor black tourmaline, minor fe, minor green muscovite, minor fine grain black oxides
B419446	598977	5462791	522	PEG	White K-feldspar, white albite inclusions in quartz, disseminated fine to medium grain red garnets, green muscovite books up to 4cm
B419447	598933	5462813	514	PEG	White K-feldspar with minor fine grain black oxides, green muscovite books up to 4cm, minor fine grain red garnets
B419448	598919	5462811	514	PEG	White albite in a matrix of coarse grain green muscovite books, minor black tourmaline, minor pink K-feldspar
B419449	598912	5462804	518	PEG	White K-feldspar, disseminated fine grain green muscovite, moderate fine to medium grain black oxides, moderate fe
B419451	598915	5462799	513	PEG	White K-feldspar with quartz inclusions, minor green muscovite, minor fine grain black oxides
B419452	598914	5462790	511	PEG	Pink microcline perthite, green-yellow muscovite books up to 5cm, minor K-feldspar with blueish alteration
B419453	598903	5462764	513	MV	Sample is in MV at contact with dyke, moderate chlorite, strongly silicified, disseminated fine grain sulphides
B419454	598902	5462758	517	PEG	Sample is mostly microcline perthite, minor fine grain green muscovite, minor quartz
B419455	598887	5462753	514	PEG	White K-feldspar, black elongated crystal 1cmx.5c tourmaline? White albite inclusions in quartz, minor fine grain green muscovite
B419456	598850	5462752	514	PEG	White K-feldspar, white albite inclusions in quartz, minor fine grain green muscovite, moderate fe
B419457	598943	5462727	519	PEG	White K-feldspar, moderate black tourmaline, minor albite, minor fine grain biotite
B419458	598957	5462751	516	PEG	Pink K-feldspar with graphic quartz intergrowth, minor fine grain green muscovite, minor white albite
B419459	598989	5462751	523	MV	MV as south side of Highstone dyke, hornblende?
B419461	598961	5462676	508	PEG	White albite, pink K-feldspar, disseminated fine grain green muscovite, disseminated fine grain red garnets
B419462	598893	5462781	516	PEG	White K-feldspar, white albite inclusions in quartz, green muscovite books up to 4cm
B419463	598887	5462789	520	PEG	Pink K-feldspar, fine grain green muscovite, minor white albite, minor fe
B419464	598883	5462780	521	PEG	Pink K-feldspar with minor black oxides and tourmaline, green muscovite books up to 5cm, minor white albite inclusions in quartz
B419465	598875	5462775	509	PEG	Sodic albite zone, fine grain red garnet, fine grain black oxides, fine grain green muscovite
B419466	598872	5462776	513	PEG	Pink K-feldspar, minor quartz, disseminated fine grain to books of 2cm green muscovite, minor fe, minor fine grain black oxides
B419467	598853	5462773	514	PEG	2mx2m quartz core, white K-feldspar and white albite, possible green apatite, fine grain red garnets
B419468	598849	5462771	500	PEG	White K-feldspar with graphic quartz intergrowth, minor green muscovite, disseminated black tourmaline, minor fe
B419469	598828	5462589	511	PEG	White albite, fine grain green muscovite and biotite, disseminated fine grain red garnets
B419471	598806	5462603	511	PEG	White K-feldspar, white albite inclusions in quartz, disseminated fine grain green muscovite

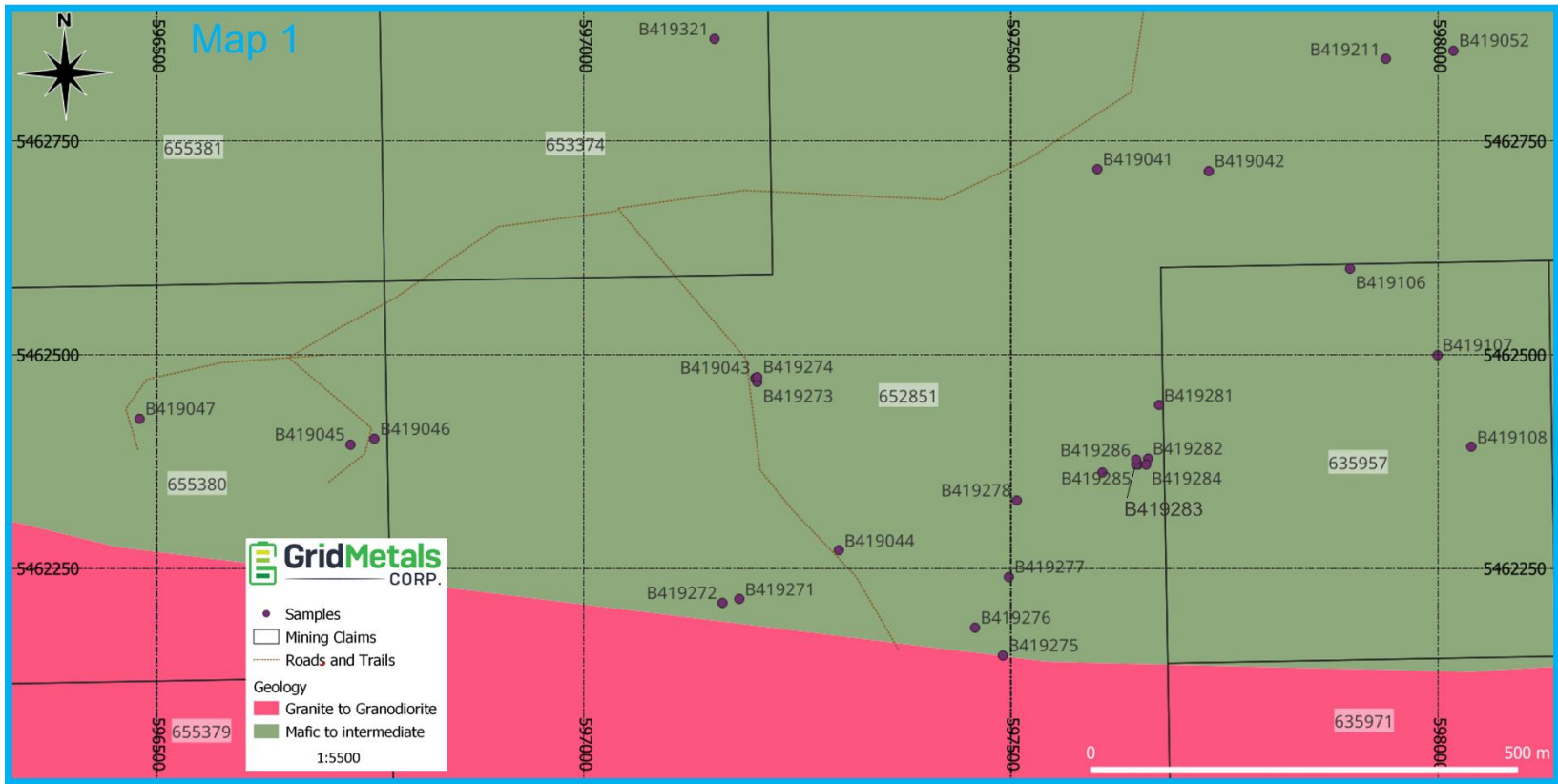
SampleID	Easting	Northing	Elevation	Rock Type	Sampling Notes
B419472	598760	5462604	514	PEG	Pink K-feldspar with minor fine grain black oxides, green muscovite books up to 4cm, white albite inclusions in quartz, minor fe
B419473	598747	5462584	511	PEG	Sodic albite zone, fine grain red garnet, fine grain black oxides, fine grain green muscovite
B419474	598748	5462576	513	PEG	2mx2m Quartz core, white K-feldspar, minor black tourmaline, minor white albite inclusions in quartz
B419475	598488	5462548	494	MV	Sample in MV, hornblende/gabbro coarse grain crystal size
B419476	602953	5463208	470	PEG	Medium grain crystal size, fine grain green muscovite and biotite, minor fe
B419477	602977	5463071	466	PEG	60m wide dyke striking 070, sample is of red K-feldspar, with moderate black tourmaline, minor white albite
B419478	602487	5463216	476	PEG	1m dyke striking 078, Sample is of sodic albite zone, fine grain red garnets, fine grain green muscovite, possible black oxides
B419479	602489	5463217	475	PEG	Sample is in same dyke, white K-feldspar, medium grain black oxides, minor fine grain green muscovite
B419481	602298	5463332	500	PEG	Sodic albite zone, fine grain red garnet, fine grain black oxides, fine grain green muscovite
B419482	601819	5463768	504	PEG	Pink K-feldspar with minor fine grain black oxides, green muscovite books up to 4cm, white albite inclusions in quartz, minor fe
B419483	601843	5463798	517	PEG	Pink K-feldspar, moderate fine grain green muscovite, white albite inclusions in quartz, minor fe
B419484	602019	5463862	501	PEG	Pink K-feldspar with graphic quartz intergrowth, minor fine grain green muscovite, minor white albite
B419485	602157	5463525	501	PEG	Pink K-feldspar, fine grain green muscovite, minor white albite, minor fe
B419486	602411	5463943	489	PEG	1m dyke, white K-feldspar, fine grain green muscovite, minor white albite
B419487	598767	5462738	514	PEG	Follow up to B419202, Pink K-feldspar, possible fine grain tan spodumene blades, brownish alteration on K-feldspar, minor quartz
B419488	598763	5462769	523	PEG	.5m from previous sample, white K-feldspar with fine grain black oxides, silver mica in books up to 2cm (Zinnwaldite?)
B419489	598763	5462767	513	PEG	.5m from previous sample, pink K-feldspar with brownish alteration, green muscovite books up to 4cm, white albite inclusions in quartz

QAQC samples comprising blanks, and standards were removed from this grab sample appendix. However, they were included in the Certificates of Analysis appendix G.

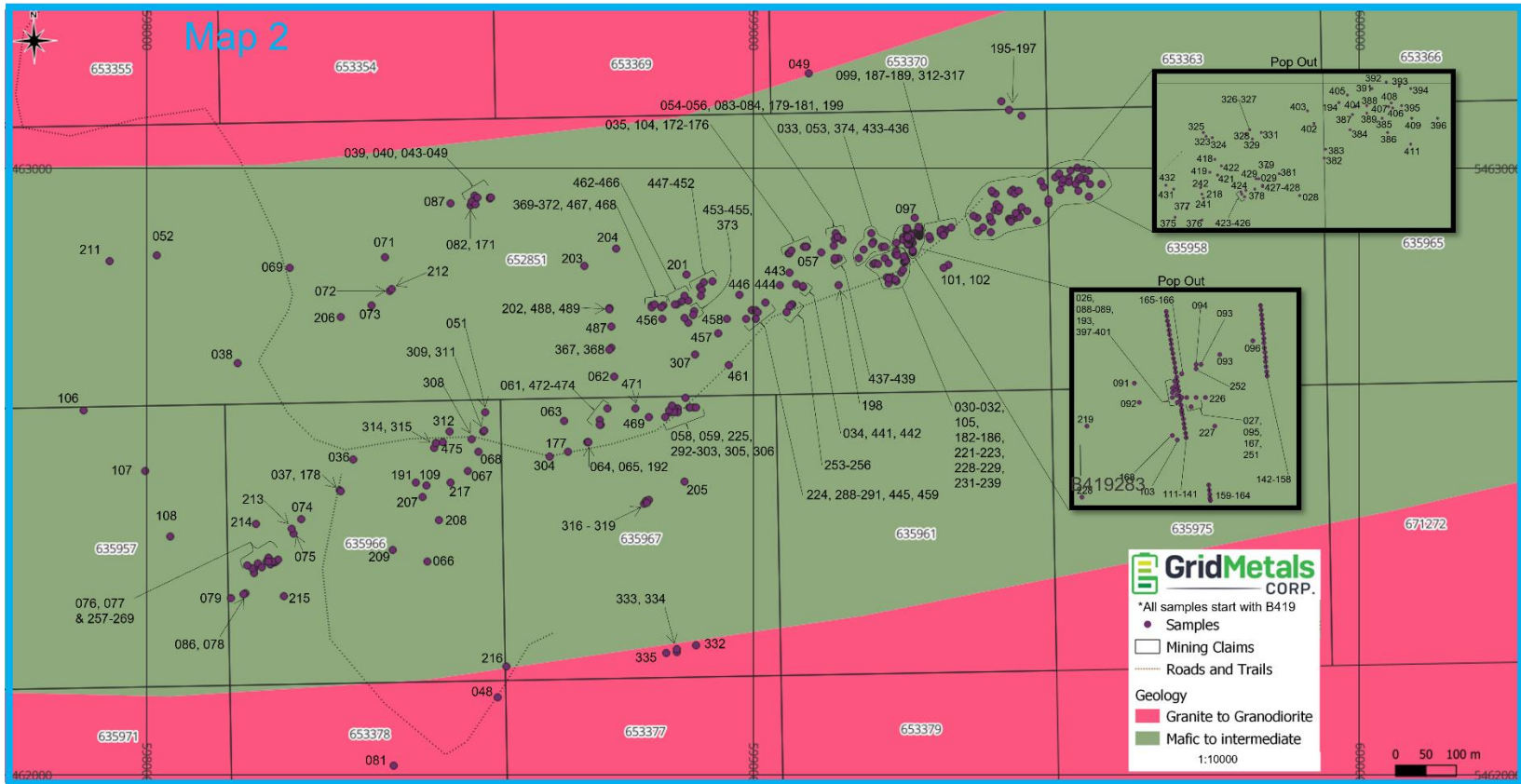
D. Labelled Sample Location Maps



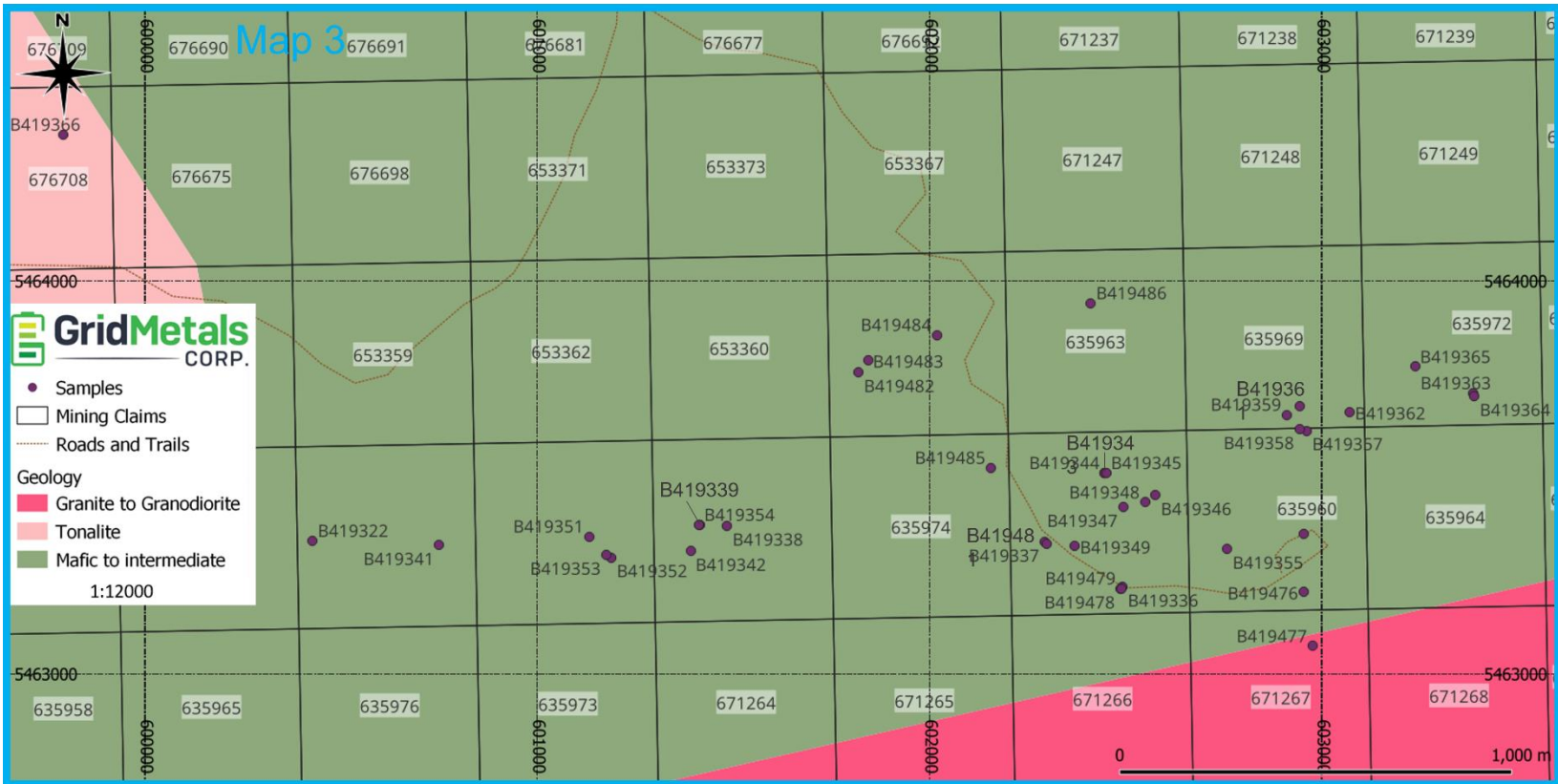
Reference map for the 3 following labelled sample maps. Note UTM coordinates and location in southwest corner of the Campus Creek property. The following maps correspond to their locations (blue) on this map. Base geology from Ontario Geological Survey (2011).



Labelled sample map 1. See top of this appendix for reference to location. Base geology from Ontario Geological Survey (2011).



Labelled sample map 2. See top of this appendix for reference to location. All samples start with B419. Base geology from Ontario Geological Survey (2011).



Labelled sample map 3. See top of this appendix for reference to location. Base geology from Ontario Geological Survey (2011).

E. Rock Channel Grades and GPS Coordinates

Channel 1 (599258E 5462874N to 599255E to 5462898N)

Sample ID	Lithology	From (m)	To (m)	Li (ppm)	Cs (ppm)	Rb (ppm)	Ta (ppm)
B419111	Granite Pegmatite	0	1	102	6.8	439	11.6
B419112	Granite Pegmatite	1	2	281	19.2	1110	7.8
B419113	Granite Pegmatite	2	3	110	14.5	742	10.8
B419114	Granite Pegmatite	3	4	294	17.4	1040	9.7
B419115	Metavolcanic Rock	4	5	567	19.6	230	0.9
B419116	Metavolcanic Rock	5	6	530	7	157	0.5
B419117	Granite Pegmatite	6	7	678	168	979	17.1
B419118	Granite Pegmatite	7	8	526	95.9	434	21.4
B419119	Granite Pegmatite	8	9	3780	1200	3920	127
B419121	Granite Pegmatite	9	10	3610	637	3230	186
B419122	Granite Pegmatite	10	11	4060	550	3080	28.5
B419123	Granite Pegmatite	11	12	554	184	2080	5.7
B419124	Granite Pegmatite	12	13	144	45.2	1350	5.1
B419125	Granite Pegmatite	13	14	112	20.4	1180	7
B419126	Granite Pegmatite	14	15	104	10.9	774	9.3
B419127	Granite Pegmatite	15	16	162	7.7	374	13.1
B419128	Granite Pegmatite	16	17	150	8	393	12.2
B419129	Granite Pegmatite	17	18	107	12	704	9.9
B419131	Granite Pegmatite	18	19	105	11.7	763	7.3
B419132	Granite Pegmatite	19	20	83	10	602	5.6
B419133	Granite Pegmatite	20	21	104	14.4	1070	5.4
B419134	Granite Pegmatite	21	22	109	15.5	1240	5.9
B419135	Granite Pegmatite	22	23	150	12.2	752	8.4
B419136	Granite Pegmatite	23	24	62	8.9	835	15
B419137	Granite Pegmatite	24	25	73	13	1010	9.9
B419138	Granite Pegmatite	25	26	80	12.4	827	11.6
B419139	Granite Pegmatite	26	27	171	10.4	585	6.8
B419141	Granite	27	28	253	13.5	544	4.8

Channel 2 (599275E 5462887N to 599272E to 5462902N)

Sample ID	Lithology	From (m)	To (m)	Li (ppm)	Cs (ppm)	Rb (ppm)	Ta (ppm)
B419142	Granite Pegmatite	0	1	174	16.2	706	13.2
B419143	Granite Pegmatite	1	2	85	18.3	1030	10.8
B419144	Granite Pegmatite	2	3	154	17.8	601	25.4
B419145	Granite Pegmatite	3	4	186	46.9	1320	15.4
B419146	Granite Pegmatite	4	5	185	23.6	1280	8.7
B419147	Granite Pegmatite	5	6	250	24.3	1340	7
B419148	Granite Pegmatite	6	7	485	38.2	1240	11.3
B419149	Granite Pegmatite	7	8	109	10.4	646	13.1
B419151	Granite Pegmatite	8	9	134	8.4	794	7.1
B419152	Granite Pegmatite	9	10	206	9.9	571	16.1
B419153	Granite Pegmatite	10	11	150	9.2	495	11.3
B419154	Granite Pegmatite	11	12	192	12	633	16.9
B419155	Granite Pegmatite	12	13	117	8	457	14.8
B419156	Granite Pegmatite	13	14	99	12.4	878	9.9
B419157	Granite Pegmatite	14	15	239	28.1	1200	12
B419158	Granite Pegmatite	15	16	73	14.9	1180	7.4

Channel 3 (599263E 5462861N to 599262E to 5462866N)

Sample ID	Lithology	From (m)	To (m)	Li (ppm)	Cs (ppm)	Rb (ppm)	Ta (ppm)
B419159	Metavolcanic Rock	0	0.5	143	11.3	155	5.7
B419160	Granite Pegmatite	0.5	1	22	0.3	1.1	0.9
B419162	Granite Pegmatite	1	2	158	9.4	634	11.9
B419163	Granite Pegmatite	2	3	132	14.4	1070	4.1
B419164	Granite Pegmatite	3	4	153	6.4	356	18.7

Channel 4 (599256E 5462883N to 599255E to 5462884N)

Sample ID	Lithology	From (m)	To (m)	Li (ppm)	Cs (ppm)	Rb (ppm)	Ta (ppm)
B419397	Granite Pegmatite	0	1	920	420	1550	25.8
B419398	Granite Pegmatite	1	2	5730	6320	5660	61.2
B419399	Granite Pegmatite	2	3	5060	24700	3600	204
B419401	Granite Pegmatite	3	4	1270	569	3230	85.7

F. Dr. Julie Selway Report

Campus Creek Property Overview

By Julie Selway, Ph.D, P.Geo.

Date: Sept. 24, 2021

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Location

The Campus Creek Property is located 7.5 km south of the Ignace, northwestern Ontario in the McNamara Lake Area and Dewan townships (Figure 1). The Property is located in NTS Sheet 52G05 and 52G06. The Property consists of 239 cell claims and is 15 km long by 5 km wide. The cell claims are in good standing for two years and the next claim due date is Feb. 10, 2023. The claims are held 100% by Jason Wolf.

Access

The Campus Creek Property is located 13.5 km southeast of Ignace along Trans Canada Highway #17. The northeast corner of the Property touches the Highway. Multiple roads off of the Highway pass through the Property for easy access. The CP railway is located 1.3 km north of the northeast corner of the Property. The Main pegmatite showing is 11 km from Highway #17.

History

Historic exploration work consisted of 39 drill holes totalling 14,001.5 ft (=4,267.7 m) in search of base metals in the mafic metavolcanics (Table 1).

Table 1 Summary of Assessment reports on Campus Creek Property/

Assessment Report Number	Year of Report	Year of Work	Company	Type of Work	Work Completed
52G05SE0001	1964	1964	Addicks Dev Co	drilling	3 drill holes, totalling 1089 ft
52G05SE0002	1965	1965	Addicks Dev Co	drilling	5 drill holes, totalling 2559 ft
52G05SE0003	1970	1970	Canadian Nickel Co Ltd	drilling	2 drill holes, totalling 349 ft
52G05SE0004	1964	1964-1965	Addicks Dev Co	drilling	27 drill holes, totalling 7722.5 ft, assays
52G05SE0005	1970	1970	Canadian Nickel Co Ltd	drilling	1 drill hole, total 207 ft
52G05SE0006	1970	1970	Canadian Nickel Co Ltd	drilling	1 drill hole, total 208 ft

Pegmatites were not identified on the Property until Jason Wolf’s discovery in 2021. Here is the discovery story as a direct quote from Jason (Sep. 23, 2021):

“I (Jason) was working with my uncle’s logging company in Aug. 2019 when I first discovered the property, being I was not very familiar with prospecting I would often bring rocks home for my wife and her family to look at. There was no visible spodumene or lepidolite in those rocks I brought home so we just packed the samples away and they sat in our garage.

In the spring of 2021, my wife and I decided it wouldn’t hurt to send away what samples I had collected while I was logging all over NW Ontario. We received the assays of 3 samples from the property in February 2021, we staked 20 claims on Feb 10, 2021 there ended up being some anomalous numbers in them. Once the snow was gone in April, I went back up to the property and ended up finding the “main showing” I sampled, once we got results back we staked some more claims on April 22nd. Which is around when I had reached out to you (Julie).”

On April 22, 2021, Jason e-mailed me and told me that he had an assay with 1510 ppm Li, 2800 ppm Rb, 598 ppm Cs, 27 ppm Sn and 100 ppm Nb and 20 ppm Ta. I told him that this an anomalous and gave him advice on what to look for when exploring for pegmatites. On April 28, 2021, Jason sent me some pictures and I confirmed spodumene in the outcrop picture.

Regional Geology

Campus Creek Property occurs in the Raleigh Lake Greenstone Belt of the Wabigoon Subprovince. The Raleigh Lake Greenstone Belt is sandwiched between two biotite granite batholiths, i.e., Indian Lake and White Otter Lake Batholiths in the Ignace area.

There are several spodumene pegmatites in the Dryden-Ignace region: Mavis Lake, Gullwing-Tot Lakes and Raleigh Lake pegmatites (Figure 1).

Property Geology

Historically, the Campus Creek Property contains two molybdenite occurrences and one discretionary molybdenite occurrence associated with tungsten and niobium. The Property also

contains two low grade zinc-copper mineral occurrences. Molybdenite is known to occur in the Raleigh Lake pegmatite field and the Gullwing-Tot Lakes pegmatite field.

A summary of Jesse Koroscil's sample descriptions and associated assays is given in Appendix 1. The discussion on the property geology below is based on Jesse Koroscil's sampling in Aug. 2021 and discussions with Jason Wolf. Sampling is ongoing, so the understanding of the property geology will evolve over time. The samples collected and assayed after Jesse's will be studied during the data compilation phase.

The Main pegmatite showing is hosted by metasedimentary rocks which are strongly foliated and contain quartz boudins parallel to the foliation (Station CC-JK-003). Small slivers of xenoliths of the host rock are included in the pegmatite dykes.

The Main pegmatite showing is 100-150 m wide to 25 m wide. However, with stripping the size of the pegmatite may increase. The Main pegmatite has an aplitic border zone with bands of fine-grained garnets, an intermediate zone with spodumene-white K-feldspar-quartz, lepidolite pod (1.5 m x 0.8 m wide) and quartz-green muscovite-blocky white K-feldspar rich core. The pale beige to green spodumene crystals range in size from 8 to 30 cm long. Secondary light purple quartz-lepidolite veinlets occurs along fractures in the K-feldspar. The best grab sample assays on the Main pegmatite showing are:

- 4.35 % Li₂O, 88.2 ppm Ta, 86 ppm Sn (sample 419026)
- 0.88 % Li₂O, 4080 ppm Rb, 1110 ppm Cs, 143 ppm Be, 79 ppm Sn, 70.8 ppm Ta (sample 419027)

Grab samples are by nature selective and may not be representative of geological units. Therefore, they should not be relied upon. The elevated Li, Rb and Cs values correspond to the presence of spodumene and lepidolite. The anomalous Ta and Sn correspond to Ta-oxide minerals and the anomalous Be suggests the presence of beryl.

Two other less evolved pegmatites were also identified during Jesse's sampling based on mineralogy, textures and assays.

Sample 419035 is located 200 m west of the Main pegmatite and the exposed outcrop is 50-60 cm in size. This primitive pegmatite contains fine-grained albite-quartz-green muscovite rich patch surrounded by white-pink K-feldspar-quartz > muscovite potassic pegmatite. The outcrop also contains fine-grained green muscovite-garnet aplite with 8.21 % Na₂O. This outcrop is classified as a primitive pegmatite because it has very fine-grained oxides with 1-2 mm rusty orange alteration halos and 104 ppm Nb.

Sample 419039 is located 693 m northwest of Main pegmatite and is about 25 m wide x 100 m long. The primitive pegmatite is oriented E-W and has a contact with metasedimentary host rock at 074°/84° and dips to the south. This is a zoned dyke with a garnet aplite border zone (6.24 % Na₂O) and a quartz-rich core. The quartz core is composed of massive smokey quartz, blocky white-orange K-feldspar and 4-8 cm long books of green muscovite. This outcrop is classified as a primitive pegmatite because it is zoned with a quartz-rich core and its geochemistry (i.e., Nb/Ta and Rb/Cs ratios) indicates moderate level of fractionation. Jason recently sent me a photo of lepidolite along fracture planes in perthitic K-feldspar and Ta-oxide mineral inclusion from samples 419171 and 419172 in the same outcrop as sample 419039. If the Li and Ta assays from samples 419171 and 419172 come back with elevated values, then this pegmatite will be reclassified as fractionated rather than primitive.

The Property has many outcrops of fertile granites, potassic pegmatite (green muscovite-quartz-blocky white K-feldspar) intermingled with garnet aplite (sugary albite). These fertile granites tend to have an E-W strike at 070 to 080° similar to the pegmatite dykes. Green muscovite and garnet are common accessory minerals in all of the granitic rocks on the property indicating the peraluminous composition of the granitic rocks.

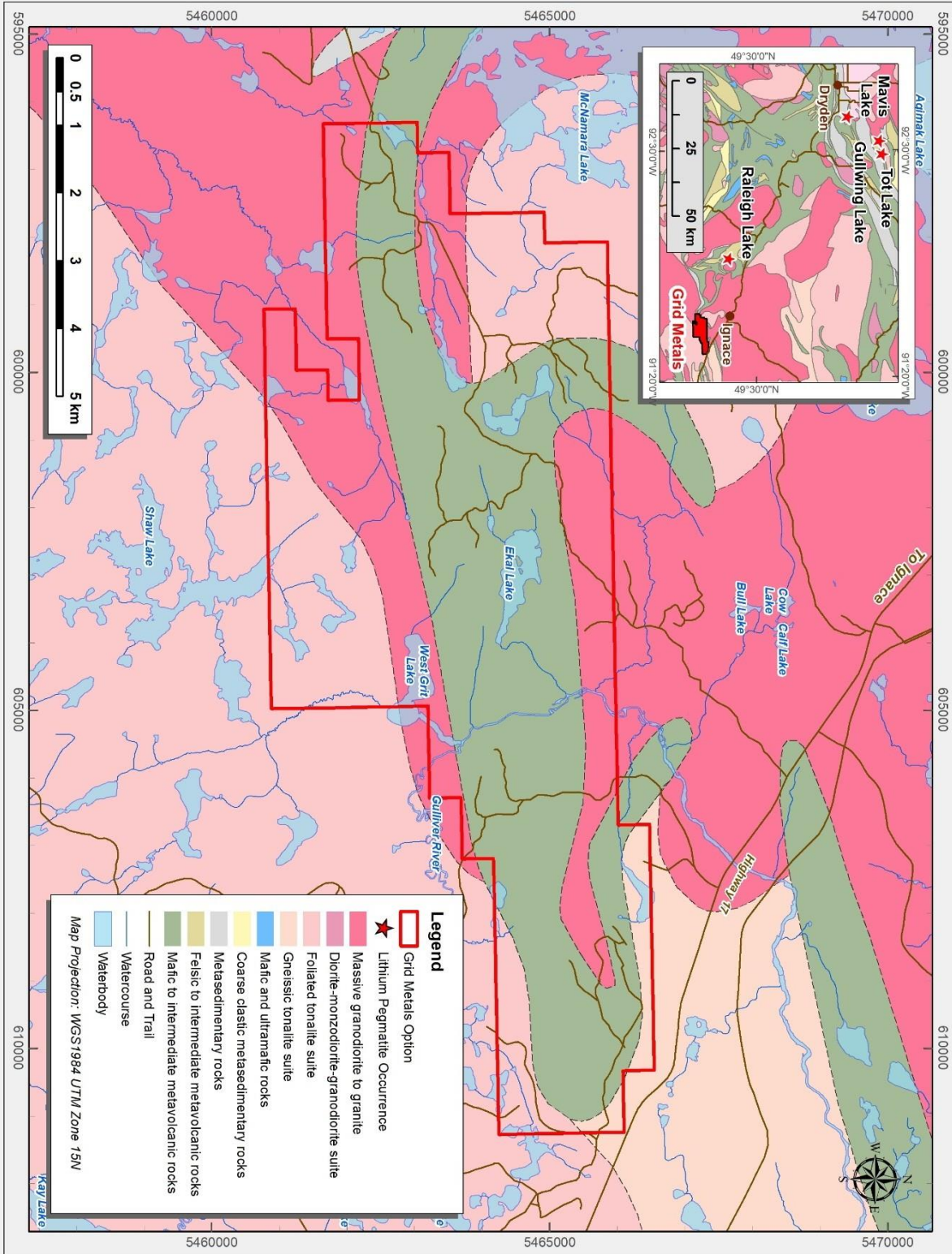


Figure 1 Property geology and regional geology for Campus Creek Property.

International Lithium's Raleigh Lake

International Lithium's Raleigh Lake pegmatites are located 25 km west of Campus Creek and 80 km southeast of the Dryden. The Raleigh Lake pegmatite field is hosted by mafic metavolcanic rocks of the Raleigh Lake Greenstone Belt along the west side of the Raleigh Lake granite stock. The pegmatite field consists of four spodumene-bearing pegmatites: Pegmatite #1, 2, and 3 and Johnson Pegmatite (Breaks, 1993, OGS Miscellaneous Paper 162). Pegmatites #1 and 3 are characterized by slender light green to tan spodumene crystals up to 1.5 by 7.5 cm oriented perpendicular to the pegmatite contacts. Ta-oxides such as manganotantalite, manganocolumbite, ixolite and microlite occur as accessory minerals. Other notable accessory minerals are beryl, molybdenite and garnet. Within 1 m of the pegmatite contact, the mafic metavolcanic host rocks contain significant biotite and holmquistite.

April 19, 2021, International Lithium Corp. announced that they completed their first drill program on the Raleigh Lake Property. The drill program consisted of 8 holes, totalling 1504 m. The drill program focussed on Zone 1 which includes Pegmatite #1 and 3. Assay highlights from this drill program were press released on Jun. 1, 2021:

- 1.72 % Li₂O, 85 ppm Ta, 2829 ppm Rb and 299 ppm Cs over 3.78 m, 29.86-33.64 m, drill hole 21-03, intersects Pegmatite #3
- Including 1.94 % Li₂O, 97 ppm Ta, 2923 ppm Rb and 180 ppm Cs over 3.23m, 29.86-33.09 m, drill hole 21-03
- 1.29 % Li₂O, 118 pm Ta, 2862 ppm Rb, 232 ppm Cs over 3.30 m, 91.25-94.55 m, drill hole RL21-02, intersects Pegmatite #3.

While the lithium grades are good, the Ta, Rb and Cs grade are anomalous, but not ore grade. The Ta, Rb and Cs assays can be used as mineralization indicators in search for lithium. Out of 8 drill holes, only 2 drill holes had decent lithium mineralization. International Lithium concludes the press release with *"The really significant news from these results however is not the lithium but rather the high level of rubidium found at Raleigh Lake together with a lower but still possibly valuable level of caesium."* This is trying to put a positive spin on their assay results. The Rb and Cs are hosted in the K-feldspar at Raleigh Lake and there are lots of pegmatites in Ontario with higher Rb and Cs values than these.

Interpretation and Recommendations

Campus Creek Property hosts Li mineralization as primary spodumene blades and lepidolite pods in the Main pegmatite showing and as secondary lepidolite along fractures in K-feldspar. Campus Creek Property also hosts anomalous Ta and Sn in the Main pegmatite showing. There are three historical molybdenite showings on the Property and molybdenite has been identified in grab samples too. Two less evolved pegmatites have also been identified on the Property. The abundance of fertile granites on the Property suggests that there are additional lithium pegmatites on the Property.

Detailed mapping and sampling of the outcrops on the Property is recommended to get a better understanding of the spatial relationship between the fertile granites and the pegmatite dykes. Areas with anomalous Li, Rb, Cs, Nb and Ta should be followed up by mechanical stripping to expose more outcrop. Typically, pegmatites occur as parallel dyke swarms and are topographic highs. A review of the topographic contours shows that the Main pegmatite showing is on an elongate topographic high striking about 65° (Figure 2). Sample 419039 primitive pegmatite dyke is located on a similar elongate topographic high to the north of the Main pegmatite showing. Two additional parallel elongate

topographic highs striking about 65° are located to the south of the Main pegmatite showing. These four topographic highs should be prospected to search more Li pegmatites. Once additional spodumene occurrences are identified, they should be channel sampled similar to Channel 1 on the Main pegmatite showing.

As granitic melts crystallize incompatible elements like Li, Rb, Cs, Nb, Ta and Be remain in melt. As the granitic melt crystallizes, it becomes enriched in these incompatible elements, so that the last pegmatites to crystallize are the most enriched in these elements. The methodology for grab sampling should include representative samples from each granitic outcrop, so that fractionation indicators like Li, Rb, Cs, Nb, Ta and Be assays and Mg/Li, Rb/Cs and Nb/Ta ratios can be interpreted to give an idea of the direction from the fertile granites with a low degree of fractionation to pegmatites with high fractionation.

Outcrops with spodumene and/or lepidolite should be channel sampled. The methodology for channel sampling is to treat them as horizontal drill holes with one end being the “collar”. The collar and the azimuth of the channel is recorded and the dip is zero. The channel should cut the pegmatite dyke perpendicular to its strike and include 1 m of the host rock on either ends of the channel. The channel is sampled like drill core with 1 m samples of the host rock and 1 m samples within the pegmatite. Ideally, the samples should only include one pegmatite zone if the zonation can be determined. These channel samples can be used as a starting point for a 3D model.

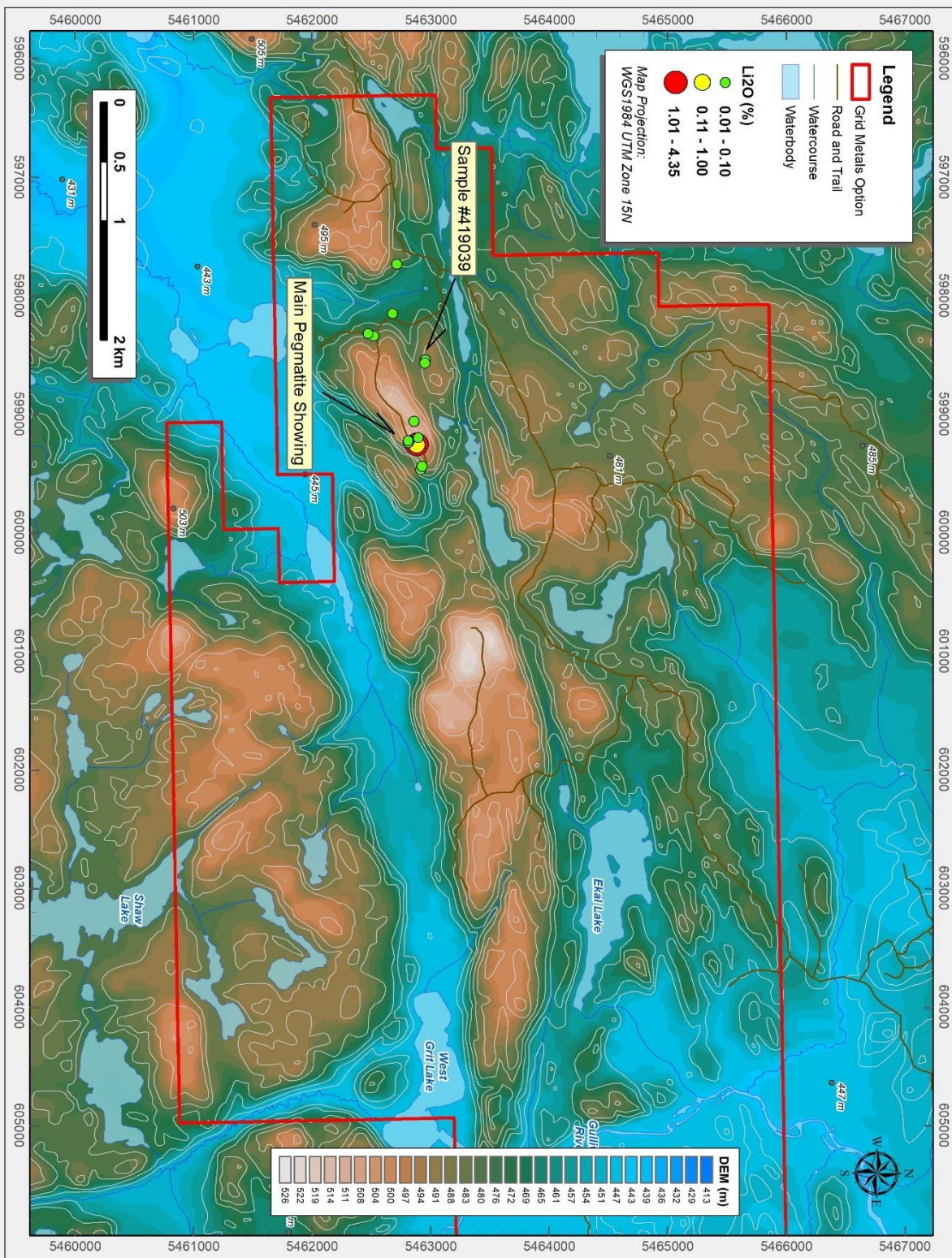


Figure 2 Campus Creek Property with DEM (digital elevation model) background and topographic contours.

Appendix 1 – summary of Jesse’s August 2021 sampling

Campus Creek Property – Jesse’ sampling

Jesse’s sampling on Aug. 12, 2021. Samples submitted to Actlabs Aug. 17 as a rush order. Assays were completed Aug. 27.

Sample 419026 – 4.35 % Li₂O, 88.2 ppm Ta, 86 ppm Sn

- Main showing dyke is 100-150 m wide to 25 m wide. Aplitic border zone with bands of fine-grained red garnets and quartz-green muscovite-blocky white K-feldspar rich core. Several pale beige to green spodumene crystals 8-30 cm long and faint purple quartz veinlets with possible lepidolite also occur in the core zone.
- Close to Jason’s channel sample 149019
- Elevated Ta – Sn correlation, possible wodginite Mn(Sn,Ta)Ta₂O₈ or cassiterite or Sn in Columbite-tantalite. Don’t know for sure until mineralogy work is done.

Sample 419027 – 0.88 % Li₂O, 4080 ppm Rb, 1110 ppm Cs, 79 ppm Sn, 70.8 ppm Ta

- Sample is K-feldspar or muscovite rich as it has 6.13% K₂O and 1.73 % LOI
- Possible beryl as it has 143 ppm Be
- Duplication of Jason’s channel sample 419019
- Sample is largely composed of white very coarse K-spar > Quartz > fg green muscovite occurring in 1-3cm bands.
- Secondary light purple quartz-lepidolite veinlets along fractures in the K-feldspar
- Purple lepidolite pod – source of Rb and Cs in the sample
- Lepidolite pod 1.5 m long by 0.8 m wide
- Jesse noted possible presence of oxides confirmed by elevated Sn-Ta
- Spodumene

Station CC-JK-003

- Strongly foliated and deformed metaseds with bands of garnets and quartz veins parallel to foliation
- Small slivers xenoliths of metaseds occur within the pegmatite dykes

Sample 419028 – 98 ppm Nb, Nb > Ta

- About 200 m east of Main showing pegmatite
- Outcrop near this sample is mg-cg red K-feldspar rich granite composed of 60-70% red-orange K-feldspar, 20-25% fine-grained quartz, 5% fine grained biotite in patches, and 1-2% fine-grained deep red garnets.
- Sample in the bag is aplitic-rich 6.57 % Na₂O
- Orange K-feldspar + biotite – fertile granite, primitive (Mg/Li ratio), possible oxides

Sample 419029

- Close to sample 419028

- Granite is becoming more evolved. K-feldspar is blockier, coarse-grained (2-10 cm) and more white instead of reddish-orange.
- Quartz rich pods local to mica-rich bands trending at 080/75.
- Sample 30% fg-mg green muscovite with white-pink K-feldspar > quartz
- Likely fertile granite – potassic pegmatite

Sample 419030

- Elevated Ca, Fe, Mg, Ti, V and Cr – host rock
- About 75 m south of Main showing pegmatite
- Metaseds with boudinaged felsic banding
- Contact with pegmatite dyke is 063/76 dip to S.
- Metaseds are composed of very fg beige feldspars, fg needles of black amphibole and trace biotite and patchy garnets

Sample 419031

- About 75 m south of Main showing pegmatite, near sample 419030
- Jason's sample 419014
- Pegmatite dyke is 50-60 m long with roughly the same width, trending E-W or 070-080 degrees, probably dipping to S
- Very cg pink-white K-feldspar occurring is localized patches of cg quartz and green muscovite
- Fg-mg reddish purple garnets, very cg blocky white K-feldspar with quartz intergrowths, patchy aplite
- Sample in the bag fg green muscovite and red garnet is aplite-rich 5.17 % Na₂O
- potassic pegmatite with aplite – fertile granite

Sample 419032

- About 75 m south of Main showing pegmatite, near sample 419030 and 419031
- Pegmatite dyke is not zoned
- Quartz core 10 cm wide, patchy
- Very cg quartz with white-pink K-feldspar and 2-5 cm books of green muscovite with 1% fg red garnets
- potassic pegmatite – fertile granite

Sample 419033

- about 60 m west of the pegmatite
- very cg smokey quartz (up to 15 cm wide) surrounded by white-pink blocky K-feldspar in finer grained albite, trace fg green muscovite, quartz core trends 070
- Na₂O = K₂O
- Fertile granite - leucogranite

Station CC-JK-011

- About 175 m southwest of pegmatite

- Quartz – green muscovite > K-feldspar rich pod with red and white garnet rich sugary aplitic margins. Fg green muscovite along margins of aplitic garnet rich banding
- Potassic pegmatite with aplite – fertile granite

Sample 419035 – 104 ppm Nb, Nb > Ta

- About 200 m west of the Main pegmatite
- Aplite-rich with 8.21 % Na₂O, Geochem similar to 419028
- Outcrop is 50-60 cm
- Fg albite-quartz-green muscovite rich patch surrounded by white-pink K-feldspar-quartz > muscovite pegmatite.
- Fg green muscovite-garnets in aplite
- Sample had trace very fg oxides with 1-2 mm rusty orange alteration halos (in photo)
- Fertile granite – potassic pegmatite and aplite, Nb primitive pegmatite

Station CC-JK-13

- Close to sample 419036
- Contact between peg and sheared metaseds.
- Metaseds with narrow boudinage felsic veins
- Metased xenolith in northern contact with granite is strongly sheared and stretched
- Reddish zone within metaseds at least 1 m wide with pyrite-rich bands

Sample 419036

- 984 m west of the Main pegmatite
- Aplite-rich with 6.09 % Na₂O
- Pegmatite hosts metased xenoliths, contact with metaseds is 086/90 but is variable with local strike of 070.
- Pegmatite is composed of mg-very cg blocky beige K-feldspar, smokey quartz, biotite bladed up to 7 cm long, no green muscovite. Trace garnets.
- Sampled subangular float/boulder
- Biotite granite with trace garnets

Sample 419037 – 1160 ppm Rb

- 55 m south of sample 419036
- K-feldspar rich with 7.99 % K₂O
- Second pegmatite dyke which is deformed with bands of mg green

muscovite with fg albite and very cg white K-feldspar up to 25 cm wide.

- Muscovite bands wrap around K-feldspar
- 50-60% white K-feldspar, 20-30% fg albite, 10-20% quartz and muscovite
- Shearing trends around 080 degrees which is parallel to the dyke
- Pictures look like patches of cg white K-feldspar + muscovite surrounded by patches of aplite
- Potassic pegmatite and aplite

Sample 419038 – 1110 ppm Rb

- 270 m north of sample 419037
- K-feldspar rich with 8.29 % K₂O
- Looks similar to sample 419037
- Separate pegmatite dyke
- Can see both contacts with strongly sheared metaseds, dyke is 25 m wide.
- South contact 066/52 dip to south
- Pegmatite dominantly white K-feldspar and patchy quartz and cg green muscovite
- Trace garnets in albite
- No zoning, no quartz core or aplite margin
- Potassic pegmatite

Sample 419039

- 693 m northwest of Main pegmatite
- Aplite-rich with 6.24 % Na₂O
- Third pegmatite dyke north of Main dyke, about 25 m wide x 100 m long, E-W
- Contact with metaseds at 074/84 dip to south
- Zoned dyke with quartz-rich core and garnet aplite margin
- Quartz core composed of massive smokey quartz, blocky white-orange K-feldspar and 4-8 cm long books of green muscovite
- primitive pegmatite dyke, primitive Mg/Li, moderate Nb/Ta, moderate Rb/Cs

Sample 419040

- Next to sample 419039
- Host rock with elevated Fe, Ca, Mg, Cr, V
- Metaseds – fg amphibole and biotite, minor fg beige feldspars, no holmquistite
- Elevated Rb/Cs ratio

Station **CC-JK-019**

- Far west side of claims, west of 419042
- Exposure is 25 m x 6 m wide in E-W
- Overall reddish colour K-feldspar with crystals up to 20 cm
- Peg is less evolved with only patches of green muscovite next to quartz-garnet rich pods

Sample **B419042**

- $\text{Na}_2\text{O} = \text{K}_2\text{O}$, 96.6 ppm Ce, REE elevated
- Pinkish pegmatite dyke, 30 m wide along cliff face.
- Very cg pinkish beige K-feldspar, cg books of green muscovite, quartz blebby pods, 2-3% fg-mg deep red garnets
- Aplite bands in picture
- Potassic pegmatite with aplite

G. Certificates of Analysis

Quality Analysis ...
Technologies



Innovative

Report No.: A21-15539Final2
Report Date: 23-Sep-21
Date Submitted: 17-Aug-21
Your Reference: Campus Creek Pegmatites

Grid Metals Corp.
304-3335 Yonge St
Toronto Ontario M4N
2M1 Canada

ATTN: Dave Peck

CERTIFICATE OF ANALYSIS

17 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
8-Peroxide ICPMS/ICP	QOP Sodium Peroxide (Sodium Peroxide Fusion ICPMS & ICP)	2021-09-23 11:38:34
UT-7	QOP Sodium Peroxide (Sodium Peroxide Fusion ICPOES + ICPMS)	2021-09-20 14:17:14

REPORT A21-15539Final2

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:

CERTIFIED BY:

Emmanuel Eseme , Ph.D.
Quality Control Coordinator



A handwritten signature in black ink, consisting of several overlapping loops and a horizontal line at the end, positioned above a solid horizontal line.

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

LabID: 266

Results

Activation Laboratories Ltd.

Report: A21-15539

Analyte Symbol	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.05	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419026	8.63	< 5	< 10	5	< 3	176	0.08	< 2	1.7	1.0	70	141	5	< 0.3	< 0.1	< 0.1	0.54	62.3	0.2	18.2	< 0.2	< 10	< 0.2
B419027	7.47	< 5	30	< 3	136	4	0.05	< 2	0.8	1.2	70	1180	5	< 0.3	< 0.1	< 0.1	0.34	64.9	0.3	9.8	< 0.2	< 10	< 0.2

Results

Activation Laboratories Ltd.

Report: A21-15539

Analyte Symbol	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	S	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2
B41902 6	0.7	0.8	> 10000	0.02	322	< 1	17.7	< 0.4	< 10	7.0	0.3	342	< 0.01	< 2	< 8	> 30.0	0.2	91.2	4	83.6	< 0.1	6	0.5
B41902 7	4.9	< 0.4	4270	0.01	1060	2	44.1	< 0.4	< 10	21.0	< 0.1	4260	< 0.01	< 2	14	> 30.0	0.1	81.2	5	69.9	< 0.1	10	0.9

Analyte Symbol	Ti	Tl	Tm	U	V	W	Y	Yb	Zn	Li
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30	0.001
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419026	< 0.01	3.0	< 0.1	1.3	< 5	< 0.7	1.4	< 0.1	< 30	1.88
B419027	< 0.01	29.4	< 0.1	1.2	< 5	2.9	2.2	< 0.1	80	

Analyte Symbol	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.05	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
PTM-1a Meas		2130								> 5000			> 10000										
PTM-1a Cert		2200								20500.00			249600.00										
NIST 696 Meas	> 25.0											320											
NIST 696 Cert	28.9											321.0											
DTS-2b Meas	0.22			13			0.04			130	> 10000										< 0.7		
DTS-2b Cert	0.240			16.0			0.090			120	15500										0.700		
Oreas 74a (Fusion) Meas		51								571	1790						13.6						
Oreas 74a (Fusion) Cert		50								581			1240.000				13.7						
Oreas 74a (Fusion) Meas		49								555	1790												
Oreas 74a (Fusion) Cert		50								581			1240.000										
OREAS 101a (Fusion) Meas									1270	50.0			443	32.6	18.6	6.9	11.0		33.0		6.5		
OREAS 101a (Fusion) Cert									1396	48.8			434	33.3	19.5	8.06	11.0		43.4		6.46		
NCS DC86314 Meas												2860											
NCS DC86314 Cert												2830											
NCS DC86314 Meas												2800											
NCS DC86314 Cert												2830											
CZN-4 Meas	0.07	352							2600	93.1			3990										

CZN-4 Cert	0.0715	356.00 00						2604.0 000		93.5		4030.0 00											
CZN-4 Meas		348						2530		89.0		4100											
CZN-4 Cert		356.00 00						2604.0 000		93.5		4030.0 00											
Lithium Tetraborate FX-LT 100 lot#220610 B Meas																							
Lithium Tetraborate FX-LT 100 lot#220610 B Cert																							
OREAS 922 (Peroxide Fusion) Meas	7.90			480		10	0.48		91.3	19.4	140	7.9	2250	5.5	3.7	1.9	5.90	20.7	6.8		1.3	10	0.3
OREAS 922 (Peroxide Fusion) Cert	7.59			481		11	0.49		88.0	20.9	90	7.5	2220	5.75	3.38	1.52	5.71	21.2	6.94		1.20	5.93	0.3
CCU-1e Meas	0.13	1100						72		324			> 10000				> 30.0						
CCU-1e Cert	0.139	1010						74.2		301			229000				30.7						
CCU-1e Meas		1110						74		307			> 10000										
CCU-1e Cert		1010						74.2		301			229000										
OREAS 680 (Peroxide Fusion) Meas	7.33						5.44										11.8						
OREAS 680 (Peroxide Fusion) Meas	7.19						5.80										11.9						

Analyte Symbol	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.05	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
Cert																							
OREAS 139	3.55	338			3	7	1.14	293	54.0	25.5		4.6	292		2.0		11.4	11.0					0.8

(Peroxi- e Fusion) Meas																									
OREAS 139 (Peroxi- e Fusion) Cert	3.70	332			3.17	6.64	1.20	296	49.4	26.0		3.21	274		1.69		11.9	10.2						0.690	
OREAS 139 (Peroxi- e Fusion) Meas		339			3	8		276	55.6	25.4		4.8	298		2.4			12.5						0.8	
OREAS 139 (Peroxi- e Fusion) Cert		332			3.17	6.64		296	49.4	26.0		3.21	274		1.69			10.2						0.690	
OREAS 624 (Peroxi- e Fusion) Meas	4.15	118		1020		23	1.38	128	33.1	257		1.7	> 10000			15.9	26.4							3.7	
OREAS 624 (Peroxi- e Fusion) Cert	4.32	115		1070		21.3	1.49	133	32.9	273		1.32	30800			16.3	22.1							4.14	
OREAS 124 (Peroxi- e Fusion) Meas	4.75			1050	< 3		0.11		53.8		90			3.4	1.8	1.4	1.56	11.2	3.1			0.7	< 10		
OREAS 124 (Peroxi- e Fusion) Cert	4.62			1020	1.83		0.088 0		47.6		51.0			2.82	1.60	1.15	1.56	10.5	3.47			0.580	6.22		
OREAS 124 (Peroxi- e Fusion) Meas				1060	< 3				50.3		80			2.7	1.8	1.8		11.9	3.8			0.4	< 10		
OREAS 124 (Peroxi- e Fusion) Cert				1020	1.83				47.6		51.0			2.82	1.60	1.15		10.5	3.47			0.580	6.22		

AMIS 0346 (Peroxide Fusion) Meas																	> 30.0							
AMIS 0346 (Peroxide Fusion) Cert																	44.3							
NCS DC7352 0 Meas			7			7		< 2		13.2	90		44							7.1				
NCS DC7352 0 Cert			5			7		0.5		12.9	20		46							6.0				
OREAS 148 (Peroxide Fusion) Meas	5.34		66		1030	38	19	0.87		832	130	327	351	7.6	2.1	7.8	3.09	32.3	18.0		1.0	< 10	3.7	
OREAS 148 (Peroxide Fusion) Cert	5.37		59		1010	39	19	0.90		795	69	311	351	6.1	2.0	7.2	3.06	29.2	15.8		0.94	4	4.2	
OREAS 148 (Peroxide Fusion) Meas			65		1010	37	21			843	130	332	350	6.4	2.2	8.1		31.3	18.1		1.0	< 10	4.4	
OREAS 148 (Peroxide Fusion) Cert			59		1010	39	19			795	69	311	351	6.1	2.0	7.2		29.2	15.8		0.9	4	4.2	
B41902 7 Orig	7.50	< 5	30	< 3	137	5	0.05	< 2	0.8	1.0	70	1190	4	< 0.3	< 0.1	< 0.1	0.33	65.8	0.3	9.8	< 0.2	10	< 0.2	
B41902 7 Dup	7.45	< 5	30	6	135	4	0.05	< 2	0.8	1.5	70	1170	6	< 0.3	< 0.1	< 0.1	0.34	63.9	0.2	9.7	< 0.2	< 10	< 0.2	
Method Blank	< 0.01	< 5	< 10	19	< 3	< 2	0.01	< 2	< 0.8	0.8	70	0.5	8	< 0.3	< 0.1	< 0.1	< 0.05	0.3	< 0.1	< 0.7	< 0.2	< 10	< 0.2	
Method Blank	0.01	< 5	< 10	< 3	< 3	< 2	< 0.01	< 2	< 0.8	0.3	50	0.7	< 2	< 0.3	< 0.1	< 0.1	< 0.05	< 0.2	< 0.1	< 0.7	< 0.2	< 10	< 0.2	
Method Blank	< 0.01	< 5	< 10	< 3	< 3	< 2	< 0.01	< 2	< 0.8	< 0.2	50	0.1	4	< 0.3	< 0.1	< 0.1	< 0.05	< 0.2	< 0.1	< 0.7	< 0.2	< 10	< 0.2	

Analyte Symbol	Al	As	B	Ba	Be	Bi	Ca	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Ho	Hf	In
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Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.05	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
Method Blank	< 0.01	< 5	< 10	< 3	< 3	< 2	< 0.01	< 2	< 0.8	< 0.2	50	0.6	< 2	< 0.3	< 0.1	< 0.1	< 0.05	< 0.2	< 0.1	< 0.7	< 0.2	< 10	< 0.2

Analyte Symbol	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	S	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th	
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	0.1	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1	
Method Code	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O2 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O2 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	
PTM-1a Meas									> 10000				23.6											
PTM-1a Cert									474400.00				22.4											
NIST 696 Meas																								
NIST 696 Cert																								
DTS-2b Meas				> 30.0	844				3820	4.8		2.6		< 2		17.4								
DTS-2b Cert				29.8	830				3780	4.00		2.00		0.600		18.4								
Oreas 74a (Fusion) Meas									> 10000				7.21			14.7								
Oreas 74a (Fusion) Cert									32400.00				7.25			15.14								
Oreas 74a (Fusion) Meas									> 10000															
Oreas 74a (Fusion) Cert									32400.00															
OREAS 101a (Fusion) Meas	2.3	830		1.15	943	21		386			118							46.3			5.8		31.9	
OREAS 101a (Fusion) Cert	2.34	816		1.23	964	21.9		403			134							48.8			5.92		36.6	
NCS DC86314 Meas			> 10000									> 5000											155	
NCS DC86314 Cert			18100.00									11400												152
NCS DC86314 Meas			> 10000									> 5000												148
NCS DC86314 Cert			18100.00									11400												152
CZN-4 Meas										1790			> 25.0			75	0.24							
CZN-4 Cert										1861.0 000			33.07			86.7	0.295							

CZN-4 Meas										1840						92							
CZN-4 Cert										1861.0 000						86.7							
Lithium Tetraborate FX-LT 100 lot#220610 B Meas																							
Lithium Tetraborate FX-LT 100 lot#220610 B Cert																							
OREAS 922 (Peroxide Fusion) Meas	2.7	44.1	34	1.61	910		14.8	34.6	60	65.1	11.3	170	0.35			29.8	7.1	13.2	64	1.4	1.0	17.0	
OREAS 922 (Peroxide Fusion) Cert	2.60	45.6	29	1.61	880		15.2	38.9	40	64.0	10.6	167	0.389		30.51	7.31	10.0	58.0	1.3	1.02	17.7		
CCU-1e Meas				0.71	95					> 5000			> 25.0	111							64		
CCU-1e Cert				0.706	96.0					7030			35.3	104							61.8		
CCU-1e Meas					90					> 5000				111							53		
CCU-1e Cert					96.0					7030				104							61.8		
OREAS 680 (Peroxide Fusion) Meas	1.3			3.64									5.16		20.3								
OREAS 680 (Peroxide Fusion) Meas	1.29			3.71									5.14		20.6								

Analyte Symbol	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	S	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2
Cert																							
OREAS 139 (Peroxide Fusion) Meas	3.1	25.7	50	0.47	6450	10				> 5000		143	15.2	65		15.4			487		0.4		7.7

OREAS 139 (Peroxide Fusion) Cert	3.30	23.1	40.4	0.501	6570	11.1				22000		145	16.0 4	63.0		16.3 4			479		0.500		7.54
OREAS 139 (Peroxide Fusion) Meas		27.5	46		6750	7				> 5000		135		60					505		0.4		7.9
OREAS 139 (Peroxide Fusion) Cert		23.1	40.4		6570	11.1				22000		145		63.0					479		0.500		7.54
OREAS 624 (Peroxide Fusion) Meas	0.9	17.2	20	1.23	626	16	7.8	16.8		> 5000	4.2	37.8	13.0	66		19.8			38				4.0
OREAS 624 (Peroxide Fusion) Cert	0.991	17.3	10.3	1.31	660	17.8	5.78	16.8		6120	4.27	33.0	13.2	72.0		20.5			47.6				4.12
OREAS 124 (Peroxide Fusion) Meas	2.7	22.3		0.21	705			20.5			5.7	96.3				> 30.0	5.5				0.5		5.8
OREAS 124 (Peroxide Fusion) Cert	2.62	21.6		0.224	700			20.8			5.39	86.0				38.2	4.21				0.480		5.74
OREAS 124 (Peroxide Fusion) Meas		23.5			683			22.9			6.7	86.7					5.3				0.5		6.0
OREAS 124 (Peroxide Fusion) Cert		21.6			700			20.8			5.39	86.0					4.21				0.480		5.74
AMIS 0346 (Peroxide Fusion)																							

Meas																							
AMIS 0346 (Peroxide Fusion) Cert																							
NCS DC73520 Meas					8850	1510			80	9.9			0.45	< 2				5.0					
NCS DC73520 Cert					9100	1500			50	11			0.44	0.6				4.5					
OREAS 148 (Peroxide Fusion) Meas	1.5	514	4650	0.46	372	8	1501.0	282			88.4	1360		19	> 30.0	33.4	1230	191		2.3		47.2	
OREAS 148 (Peroxide Fusion) Cert	1.5	478	4760	0.47	380	10	1680.0	260			82.0	1360		16	36.0	34.3	1160	209		1.6		51.0	
OREAS 148 (Peroxide Fusion) Meas		519	4840		375	8	1691.9	280			94.3	1330		16		37.0	1180	207		2.1		48.3	
OREAS 148 (Peroxide Fusion) Cert		478	4760		380	10	1680.0	260			82.0	1360		16		34.3	1160	209		1.6		51.0	
B419027 Orig	4.9	< 0.4	4290	0.01	1050	2	45.6	< 0.4	< 10	21.8	< 0.1	4270	< 0.01	< 2	14	> 30.0	0.1	81.9	6	74.7	< 0.1	9	0.9
B419027 Dup	4.9	< 0.4	4260	0.01	1060	2	42.7	< 0.4	< 10	20.1	< 0.1	4260	< 0.01	< 2	14	> 30.0	0.2	80.6	3	65.1	< 0.1	10	0.9
Method Blank	< 0.1	< 0.4	< 3	< 0.01	< 3	5	4.1	< 0.4	70	2.1	< 0.1	0.5	0.01	< 2	< 8	< 0.01	< 0.1	2.0	4	0.6	< 0.1	9	< 0.1
Method Blank	< 0.1	< 0.4	6	< 0.01	< 3	1	4.5	< 0.4	< 10	< 0.8	< 0.1	2.2	< 0.01	< 2	< 8	< 0.01	< 0.1	< 0.5	< 3	0.6	< 0.1	10	< 0.1
Method Blank	< 0.1	< 0.4	< 3	< 0.01	4	< 1	3.1	< 0.4	< 10	2.0	< 0.1	1.7	< 0.01	< 2	< 8	< 0.01	< 0.1	< 0.5	< 3	0.4	< 0.1	< 6	< 0.1

Analyte Symbol	K	La	Li	Mg	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	S	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1

Method Code	FUS-Na2O ₂	FUSMSNa2O ₂	FUSMSNa2O ₂	FUS-Na2O ₂	FUSMSNa2O ₂	FUSMSNa2O ₂	FUSMSNa2O ₂	FUSMSNa2O ₂	FUSMSNa2O ₂	FUSMSNa2O ₂	FUSMSNa2O ₂	FUSMSNa2O ₂	FUS-Na2O ₂	FUSMSNa2O ₂	FUSMSNa2O ₂	FUS-Na2O ₂	FUSMSNa2O ₂	FUSMSNa2O ₂	FUSMSNa2O ₂	FUSMSNa2O ₂	FUSMSNa2O ₂	FUSMSNa2O ₂	FUSMSNa2O ₂
Method Blank	< 0.1	< 0.4	< 3	< 0.01	< 3	< 1	3.6	< 0.4	< 10	1.5	< 0.1	2.2	< 0.01	< 2	< 8	< 0.01	< 0.1	0.7	5	0.5	< 0.1	< 6	< 0.1

Analyte Symbol	Ti	Tl	Tm	U	V	W	Y	Yb	Zn	Li
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30	0.001
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
PTM-1a Meas										
PTM-1a Cert										
NIST 696 Meas						371				
NIST 696 Cert					403.00 00					
DTS-2b Meas						24			50	
DTS-2b Cert						22.0			45.0	
Oreas 74a (Fusion) Meas										
Oreas 74a (Fusion) Cert										
Oreas 74a (Fusion) Meas										
Oreas 74a (Fusion) Cert										
OREAS 101a (Fusion) Meas	0.38		2.7	404	82		166	16.7		
OREAS 101a (Fusion) Cert	0.395		2.90	422	83		183	17.5		
NCS DC86314 Meas						74.0				1.74
NCS DC86314 Cert						79.0				1.81
NCS DC86314 Meas						77.1				
NCS DC86314 Cert						79.0				
CZN-4 Meas									> 10000	
CZN-4 Cert									550700	
CZN-4 Meas									.00	
CZN-4 Cert									> 10000	
									550700.00	

Lithium Tetraborate FX-LT 100 lot#220610B Meas										7.95
Lithium Tetraborate FX-LT 100 lot#220610B Cert										8
OREAS 922 (Peroxide Fusion) Meas	0.44	0.7	0.5	3.5	98		33.3	2.5	320	
OREAS 922 (Peroxide Fusion) Cert	0.439	0.9	0.510	3.6	92.0		31.1	3.17	280	
CCU-1e Meas		2.5							> 10000	
CCU-1e Cert		2.69							30200	
CCU-1e Meas		2.7							> 10000	
CCU-1e Cert		2.69							30200	
OREAS 680 (Peroxide Fusion) Meas	0.52									
OREAS 680 (Peroxide Fusion)	0.523									

Analyte Symbol	Ti	Tl	Tm	U	V	W	Y	Yb	Zn	Li
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30	0.001
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
Cert										
OREAS 139 (Peroxide Fusion) Meas	0.15	35.3		12.5			17.2		> 10000	
OREAS 139 (Peroxide Fusion) Cert	0.157	35.4		12.2			17.1		133600.00	
OREAS 139		35.2		12.2			18.6		> 10000	

(Peroxide Fusion) Meas										
OREAS 139 (Peroxide Fusion) Cert		35.4		12.2			17.1		133600.00	
OREAS 624 (Peroxide Fusion) Meas	0.15	0.9		1.3	30	4.3	17.2	2.1	> 10000	
OREAS 624 (Peroxide Fusion) Cert	0.146	0.940		1.34	43.3	4.58	17.3	1.94	24100	
OREAS 124 (Peroxide Fusion) Meas	0.27		0.3	1850	25		13.3	1.4		
OREAS 124 (Peroxide Fusion) Cert	0.254		0.220	1790	23.3		14.2	1.63		
OREAS 124 (Peroxide Fusion) Meas			0.3	1810	27		12.1	1.7		
OREAS 124 (Peroxide Fusion) Cert			0.220	1790	23.3		14.2	1.63		
AMIS 0346 (Peroxide Fusion) Meas	14.7				2790					
AMIS 0346 (Peroxide Fusion) Cert	15.0				2700					
NCS DC73520 Meas						478			430	
NCS DC73520 Cert						518			370	
OREAS 148 (Peroxide Fusion) Meas	0.35	13.2	0.3	8.1	56	8.1	23.2	1.9	160	0.484

OREAS 148 (Peroxide Fusion) Cert	0.35	12.3	0.2	8.6	56	6.4	19.4	1.4	160	0.476
OREAS 148 (Peroxide Fusion) Meas		12.4	0.2	8.3	57	8.8	19.4	2.0	160	
OREAS 148 (Peroxide Fusion) Cert		12.3	0.2	8.6	56	6.4	19.4	1.4	160	
B419027 Orig	< 0.01	30.3	< 0.1	1.3	< 5	2.3	2.3	< 0.1	80	
B419027 Dup	< 0.01	28.5	< 0.1	1.1	< 5	3.4	2.2	0.1	70	
Method Blank	< 0.01	< 0.1	< 0.1	0.2	< 5	1.6	< 0.1	< 0.1	< 30	
Method Blank	< 0.01	< 0.1	< 0.1	0.2	< 5	0.8	0.1	0.2	< 30	
Method Blank	< 0.01	< 0.1	< 0.1	0.1	< 5	1.0	< 0.1	< 0.1	< 30	
Analyte Symbol	Ti	Tl	Tm	U	V	W	Y	Yb	Zn	Li
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30	0.001
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
Method Blank	< 0.01	< 0.1	< 0.1	0.1	< 5	2.2	0.2	0.1	< 30	



Report No.: A21-17062-Revised
 Report Date: 28-Sep-21
 Date Submitted: 09-Sep-21
 Your Reference: Campus Creek Pegmatites

Grid Metals Corp.
 304-3335 Yonge St
 Toronto Ontario M4N 2M1
 Canada

ATTN: Dave Peck

CERTIFICATE OF ANALYSIS

12 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
UT-7	QOP Sodium Peroxide (Sodium Peroxide Fusion ICPOES + ICPMS)	2021-09-20 14:17:14

REPORT **A21-17062-Revised**

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Notes:



CERTIFIED BY:

Emmanuel Esemé, 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
 LabID: 266



E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	As	B	Ba	Be	Bi	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Ga	Gd	Ge	Ho	Hf	In	La	Li	Mn
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	5	10	3	3	2	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.2	0.1	0.7	0.2	10	0.2	0.4	3	3
Method Code	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2
B419053	< 5	< 10	13	< 3	< 2	< 2	5.3	0.8	50	16.5	6	0.6	0.2	< 0.1	32.7	0.8	3.3	< 0.2	< 10	< 0.2	2.2	46	96
B419054	< 5	1550	8	3	< 2	< 2	9.8	1.1	50	4.1	7	2.5	1.3	< 0.1	30.9	3.5	2.6	0.5	< 10	< 0.2	3.6	40	66
B419056	< 5	< 10	9	< 3	66	< 2	2.8	1.3	50	70.6	7	0.5	< 0.1	< 0.1	36.1	0.5	3.7	< 0.2	< 10	0.2	1.9	19	42
B419085	< 5	30	4	58	23	< 2	1.4	0.6	50	713	7	0.6	0.1	< 0.1	44.8	0.6	13.7	< 0.2	100	< 0.2	< 0.4	6970	686
B419088	< 5	50	4	339	< 2	< 2	1.2	0.2	50	1680	6	< 0.3	< 0.1	< 0.1	61.4	0.4	11.3	< 0.2	10	< 0.2	< 0.4	6600	1390
B419089	< 5	20	< 3	389	8	< 2	2.6	0.3	40	822	6	1.2	0.2	< 0.1	81.8	1.4	7.0	< 0.2	< 10	< 0.2	0.9	3180	860
B419099	< 5	< 10	< 3	< 3	< 2	< 2	11.2	0.2	40	25.8	< 2	1.8	0.6	< 0.1	40.3	2.3	3.0	0.3	< 10	< 0.2	4.3	186	258
B419103	< 5	170	5	6	46	< 2	16.3	0.6	40	163	< 2	4.2	0.9	< 0.1	58.2	5.3	7.1	0.3	< 10	< 0.2	6.0	1030	491
B419107	< 5	< 10	7	< 3	< 2	< 2	4.1	< 0.2	50	16.6	< 2	1.0	0.5	< 0.1	29.7	1.1	2.4	< 0.2	< 10	< 0.2	1.7	67	151
B419109	< 5	< 10	< 3	454	10	< 2	18.8	0.7	50	32.7	< 2	3.3	1.8	< 0.1	47.0	4.0	2.2	0.6	< 10	< 0.2	6.8	156	512
OREAS 148-1	59	20	1010	38	20	2	770	8.8	120	328	360	7.3	2.4	6.2	32.6	17.3	6.9	1.0	< 10	3.5	493	4840	350
BLANK-1	< 5	20	28	< 3	< 2	< 2	4.7	0.4	50	2.2	3	0.7	0.5	0.2	24.2	0.8	< 0.7	< 0.2	< 10	< 0.2	2.3	43	112

Results

Activation Laboratories Ltd.

Report: A21-17062

Analyte Symbol	Mo	Nb	Nd	Ni	Pb	Pr	Rb	S	Sb	Se	Sm	Sn	Sr	Ta	Tb	Te	Th	Tl	Tm	U	V	W	Y
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.1	0.5	3	0.2	0.1	6	0.1		0.1	0.1	5	0.7	0.1
Method Code	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUS-Na2O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2
B419053	< 1	17.8	1.7	30	49.3	0.6	1880	< 0.01	< 2	< 8	0.3	3.6	8	1.4	< 0.1	< 6	0.7		< 0.1	1.5	< 5	0.9	5.1
B419054	3	51.1	4.3	< 10	14.9	1.1	254	< 0.01	< 2	< 8	2.3	3.8	21	7.5	0.4	< 6	3.8		0.3	2.0	< 5	1.8	22.5
B419056	< 1	15.2	2.1	< 10	50.9	0.4	2590	< 0.01	< 2	10	0.4	2.0	6	6.5	< 0.1	14	< 0.1		< 0.1	0.7	< 5	0.9	3.2
B419085	< 1	48.0	0.6	10	8.9	0.1	1770	< 0.01	< 2	< 8	0.5	70.6	5	179	0.1	< 6	1.2		0.1	3.2	< 5	2.0	9.0
B419088	< 1	90.1	0.6	< 10	9.5	< 0.1	4130	< 0.01	< 2	< 8	0.5	114	< 3	304	< 0.1	6	1.0		< 0.1	2.8	< 5	3.9	2.6
B419089	< 1	111.1	< 0.4	< 10	5.1	0.3	2550	< 0.01	< 2	< 8	0.9	87.2	< 3	227	0.2	< 6	0.7		< 0.1	4.3	< 5	3.4	9.5
B419099	< 1	57.0	6.8	< 10	26.3	1.5	1420	< 0.01	< 2	< 8	2.9	7.0	< 3	7.3	0.3	< 6	2.6		0.1	1.5	< 5	1.5	12.4
B419103	< 1	60.1	8.5	10	5.6	2.3	1050	< 0.01	< 2	10	4.5	36.1	6	32.6	0.9	13	4.6		0.1	1.9	< 5	1.7	28.4
B419107	1	29.2	1.4	< 10	27.4	0.5	956	< 0.01	< 2	< 8	0.7	3.8	< 3	5.3	0.2	6	1.6		< 0.1	2.0	< 5	0.8	7.7
B419109	< 1	69.5	9.1	< 10	47.4	2.4	1340	< 0.01	< 2	< 8	3.3	5.2	4	7.1	0.5	< 6	6.2		0.3	3.3	< 5	1.2	24.0
OREAS 148-1	11	1635.5	247	30	26.2	91.5	1410	< 0.01	16	15	31.3	1270	205	20.1	2.1	8	45.7		0.3	8.4	57	8.3	20.8
BLANK-1	1	4.9	1.8	< 10	38.1	0.6	72.0	< 0.01	< 2	< 8	0.7	1.2	49	0.6	< 0.1	< 6	0.5		0.1	0.5	< 5	1.1	4.8

Analyte Symbol	Yb	Zn	Al2O3	CaO	Fe2O3(T)	K2O	MgO	SiO2	TiO2
Unit Symbol	ppm	ppm	%	%	%	%	%	%	%
Lower Limit	0.1	30	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Method Code	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2
B419053	0.3	< 30	16.21	0.17	0.38	9.22	0.02	68.79	< 0.01
B419054	1.8	< 30	11.10	0.16	0.81	1.44	0.46	78.26	0.01
B419056	0.1	< 30	14.79	0.07	0.49	9.49	0.04	69.50	< 0.01
B419085	0.3	40	9.68	0.02	0.71	2.15	< 0.01	76.14	< 0.01
B419088	< 0.1	90	11.69	0.02	0.64	4.10	< 0.01	70.00	< 0.01
B419089	0.1	160	10.85	0.02	1.28	3.43	0.02	76.53	0.02
B419099	0.5	< 30	14.10	0.10	0.75	6.40	0.02	72.14	< 0.01
B419103	0.4	90	11.30	0.15	0.76	1.50	0.01	76.81	0.01
B419107	0.7	< 30	10.60	0.05	0.57	5.30	0.01	75.34	0.01
B419109	2.0	< 30	16.23	0.12	0.82	8.11	0.03	68.02	0.01
OREAS 148-1	1.4	150	9.97	1.02	4.22	1.79	0.72	73.94	0.56
BLANK-1	0.6	< 30	23.59	0.44	0.85	4.53	0.11	57.44	0.02

Analyte Symbol	As	B	Ba	Be	Bi	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Ga	Gd	Ge	Ho	Hf	In	La	Li	Mn
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	5	10	3	3	2	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.2	0.1	0.7	0.2	10	0.2	0.4	3	3
Method Code	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2
PTM-1a Meas	2130							> 5000			> 10000												
PTM-1a Cert	2200							20500.00			249600.00												
NIST 696 Meas									320														
NIST 696 Cert									321.0														
DTS-2b Meas			13					130	> 10000		< 2						< 0.7						844
DTS-2b Cert			16.0					120	15500		3.00						0.700						830
Oreas 74a (Fusion) Meas	51							571	1790		1230												
Oreas 74a (Fusion) Cert	50							581			1240.000												
Oreas 74a (Fusion) Meas	49							555	1790		1250												
Oreas 74a (Fusion) Cert	50							581			1240.000												
OREAS 101a (Fusion) Meas							1270	50.0			443	32.6	18.6	6.9		33.0		6.5			830		943
OREAS 101a (Fusion) Cert							1396	48.8			434	33.3	19.5	8.06		43.4		6.46			816		964
NCS DC8631 4 Meas										2860													> 10000
NCS DC8631 4 Cert										2830													18100.00

NCS DC8631 4 Meas									2800													> 10000	
NCS DC8631 4 Cert									2830													18100.00	
CZN-4 Meas	352					2600		93.1		3990													
CZN-4 Cert	356.00 00					2604.0 000		93.5		4030.0 00													
CZN-4 Meas	348					2530		89.0		4100													
CZN-4 Cert	356.00 00					2604.0 000		93.5		4030.0 00													
OREAS 922 (Peroxi de Fusion) Meas			480		10		91.3	19.4	140	7.9	2250	5.5	3.7	1.9	20.7	6.8		1.3	10	0.3	44.1	34	910
OREAS 922 (Peroxi de Fusion) Cert			481		11		88.0	20.9	90	7.5	2220	5.75	3.38	1.52	21.2	6.94		1.20	5.93	0.3	45.6	29	880
CCU-1e Meas	1100					72		324		> 10000												95	
CCU-1e Cert	1010					74.2		301		229000												96.0	
CCU-1e Meas	1110					74		307		> 10000												90	
CCU-1e Cert	1010					74.2		301		229000												96.0	
OREAS 680 (Peroxi de Fusion) Meas																							
OREAS 680 (Peroxi de Fusion) Cert																							
OREAS 139 (Peroxi de Fusion) Meas	338			3	7	293	54.0	25.5		4.6	292		2.0	11.0					0.8	25.7	50	6450	
OREAS 139	332			3.17	6.64	296	49.4	26.0		3.21	274		1.69	10.2					0.690	23.1	40.4	6570	

(Peroxide Fusion) Cert																							
OREAS 139	339			3	8	276	55.6	25.4		4.8	298		2.4		12.5				0.8	27.5	46	6750	

Analyte Symbol	As	B	Ba	Be	Bi	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Ga	Gd	Ge	Ho	Hf	In	La	Li	Mn
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	5	10	3	3	2	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.2	0.1	0.7	0.2	10	0.2	0.4	3	3
Method Code	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2
(Peroxide Fusion) Meas																							
OREAS 139 (Peroxide Fusion) Cert	332			3.17	6.64	296	49.4	26.0		3.21	274		1.69		10.2					0.690	23.1	40.4	6570
OREAS 624 (Peroxide Fusion) Meas	118		1020		23	128	33.1	257		1.7	> 10000				26.4					3.7	17.2	20	626
OREAS 624 (Peroxide Fusion) Cert	115		1070		21.3	133	32.9	273		1.32	30800				22.1					4.14	17.3	10.3	660
OREAS 124 (Peroxide Fusion) Meas			1050	< 3			53.8		90			3.4	1.8	1.4	11.2	3.1		0.7	< 10		22.3		705
OREAS 124 (Peroxide Fusion) Cert			1020	1.83			47.6		51.0			2.82	1.60	1.15	10.5	3.47		0.580	6.22		21.6		700
OREAS 124 (Peroxide Fusion) Meas			1060	< 3			50.3		80			2.7	1.8	1.8	11.9	3.8		0.4	< 10		23.5		683
OREAS 124			1020	1.83			47.6		51.0			2.82	1.60	1.15	10.5	3.47		0.580	6.22		21.6		700

(Peroxi de Fusion) Cert																							
AMIS 0346 (Peroxi de Fusion) Meas																							
AMIS 0346 (Peroxi de Fusion) Cert																							
NCS DC7352 0 Meas	7				7	< 2		13.2	90		44						7.1						8850
NCS DC7352 0 Cert	5				7	0.5		12.9	20		46						6.0						9100
OREAS 148 (Peroxi de Fusion) Meas	66		1030	38	19			832	130	327	351	7.6	2.1	7.8	32.3	18.0		1.0	< 10	3.7	514	4650	372
OREAS 148 (Peroxi de Fusion) Cert	59		1010	39	19			795	69	311	351	6.1	2.0	7.2	29.2	15.8		0.94	4	4.2	478	4760	380
OREAS 148 (Peroxi de Fusion) Meas	65		1010	37	21			843	130	332	350	6.4	2.2	8.1	31.3	18.1		1.0	< 10	4.4	519	4840	375
OREAS 148 (Peroxi de Fusion) Cert	59		1010	39	19			795	69	311	351	6.1	2.0	7.2	29.2	15.8		0.9	4	4.2	478	4760	380
B41910 9 Orig	< 5	< 10	4	452	10	< 2	17.5	0.7	50	31.5	< 2	3.5	1.6	< 0.1	45.8	3.5	1.6	0.5	< 10	0.3	6.5	156	498
B41910 9 Dup	< 5	< 10	< 3	455	10	< 2	20.0	0.8	50	33.9	10	3.1	2.0	< 0.1	48.2	4.5	2.8	0.7	< 10	< 0.2	7.1	157	526
Method Blank	< 5	< 10	19	< 3	< 2	< 2	< 0.8	0.8	70	0.5	8	< 0.3	< 0.1	< 0.1	0.3	< 0.1	< 0.7	< 0.2	< 10	< 0.2	< 0.4	< 3	< 3
Method Blank	< 5	< 10	< 3	< 3	< 2	< 2	< 0.8	0.3	50	0.7	< 2	< 0.3	< 0.1	< 0.1	< 0.2	< 0.1	< 0.7	< 0.2	< 10	< 0.2	< 0.4	6	< 3
Method Blank	< 5	< 10	< 3	< 3	< 2	< 2	< 0.8	< 0.2	50	0.1	4	< 0.3	< 0.1	< 0.1	< 0.2	< 0.1	< 0.7	< 0.2	< 10	< 0.2	< 0.4	< 3	4
Method Blank	< 5	< 10	< 3	< 3	< 2	< 2	< 0.8	< 0.2	50	0.6	< 2	< 0.3	< 0.1	< 0.1	< 0.2	< 0.1	< 0.7	< 0.2	< 10	< 0.2	< 0.4	< 3	< 3

Analyte Symbol	Mo	Nb	Nd	Ni	Pb	Pr	Rb	S	Sb	Se	Sm	Sn	Sr	Ta	Tb	Te	Th	Tl	Tm	U	V	W	Y
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.1	0.5	3	0.2	0.1	6	0.1	0.1	0.1	0.1	5	0.7	0.1
Method Code	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUS-Na2O 2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2
PTM-1a Meas				> 10000				23.6															
PTM-1a Cert				474400.00				22.4															
NIST 696 Meas																						371	
NIST 696 Cert																						403.00 00	
DTS-2b Meas				3820	4.8		2.6	< 2														24	
DTS-2b Cert				3780	4.00		2.00	0.600														22.0	
Oreas 74a (Fusion) Meas				> 10000				7.21															
Oreas 74a (Fusion) Cert				32400.00				7.25															
Oreas 74a (Fusion) Meas				> 10000																			
Oreas 74a (Fusion) Cert				32400.00																			
OREAS 101a (Fusion) Meas	21		386			118					46.3				5.8		31.9		2.7	404	82		166
OREAS 101a (Fusion) Cert	21.9		403			134					48.8				5.92		36.6		2.90	422	83		183
NCS DC8631 4 Meas							> 5000					155										74.0	
NCS DC8631 4 Cert							11400					152										79.0	

NCS DC8631 4 Meas							> 5000				148										77.1	
NCS DC8631 4 Cert							11400				152										79.0	
CZN-4 Meas					1790						75											
CZN-4 Cert					1861.0 000						86.7											
CZN-4 Meas					1840						92											
CZN-4 Cert					1861.0 000						86.7											
OREAS 922 (Peroxide Fusion) Meas		14.8	34.6	60	65.1	11.3	170	0.35			7.1	13.2	64	1.4	1.0		17.0	0.7	0.5	3.5	98	33.3
OREAS 922 (Peroxide Fusion) Cert		15.2	38.9	40	64.0	10.6	167	0.389			7.31	10.0	58.0	1.3	1.02		17.7	0.9	0.510	3.6	92.0	31.1
CCU-1e Meas					> 5000						111						64		2.5			
CCU-1e Cert					7030						35.3	104					61.8		2.69			
CCU-1e Meas					> 5000						111						53		2.7			
CCU-1e Cert					7030						104						61.8		2.69			
OREAS 680 (Peroxide Fusion) Meas											5.16											
OREAS 680 (Peroxide Fusion) Cert											5.14											
OREAS 139 (Peroxide Fusion) Meas	10				> 5000		143	15.2	65				487		0.4		7.7		35.3		12.5	17.2
OREAS 139	11.1				22000		145	16.04	63.0				479		0.500		7.54		35.4		12.2	17.1

(Peroxide Fusion) Cert																							
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Analyte Symbol	Mo	Nb	Nd	Ni	Pb	Pr	Rb	S	Sb	Se	Sm	Sn	Sr	Ta	Tb	Te	Th	Tl	Tm	U	V	W	Y
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.1	0.5	3	0.2	0.1	6	0.1	0.1	0.1	0.1	5	0.7	0.1
Method Code	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUS- Na2O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2
OREAS 139 (Peroxide Fusion) Meas	7				> 5000		135		60				505		0.4		7.9	35.2		12.2			18.6
OREAS 139 (Peroxide Fusion) Cert	11.1				22000		145		63.0				479		0.500		7.54	35.4		12.2			17.1
OREAS 624 (Peroxide Fusion) Meas	16	7.8	16.8		> 5000	4.2	37.8	13.0	66				38				4.0	0.9		1.3	30	4.3	17.2
OREAS 624 (Peroxide Fusion) Cert	17.8	5.78	16.8		6120	4.27	33.0	13.2	72.0				47.6				4.12	0.940		1.34	43.3	4.58	17.3
OREAS 124 (Peroxide Fusion) Meas			20.5			5.7	96.3				5.5				0.5		5.8		0.3	1850	25		13.3
OREAS 124 (Peroxide Fusion) Cert			20.8			5.39	86.0				4.21				0.480		5.74		0.220	1790	23.3		14.2
OREAS 124 (Peroxide Fusion) Meas			22.9			6.7	86.7				5.3				0.5		6.0		0.3	1810	27		12.1

OREAS 124 (Peroxide Fusion) Cert			20.8			5.39	86.0				4.21				0.480		5.74		0.220	1790	23.3		14.2
AMIS 0346 (Peroxide Fusion) Meas																					2790		
AMIS 0346 (Peroxide Fusion) Cert																					2700		
NCS DC73520 Meas	1510			80	9.9			0.45	< 2		5.0												478
NCS DC73520 Cert	1500			50	11			0.44	0.6		4.5												518
OREAS 148 (Peroxide Fusion) Meas	8	1501.0	282			88.4	1360		19		33.4	1230	191		2.3		47.2	13.2	0.3	8.1	56	8.1	23.2
OREAS 148 (Peroxide Fusion) Cert	10	1680.0	260			82.0	1360		16		34.3	1160	209		1.6		51.0	12.3	0.2	8.6	56	6.4	19.4
OREAS 148 (Peroxide Fusion) Meas	8	1691.9	280			94.3	1330		16		37.0	1180	207		2.1		48.3	12.4	0.2	8.3	57	8.8	19.4
OREAS 148 (Peroxide Fusion) Cert	10	1680.0	260			82.0	1360		16		34.3	1160	209		1.6		51.0	12.3	0.2	8.6	56	6.4	19.4
B419109 Orig	< 1	68.6	8.3	30	49.6	2.3	1340	< 0.01	< 2	< 8	3.1	4.4	4	7.4	0.6	< 6	6.0	7.2	0.4	3.1	< 5	1.1	23.5
B419109 Dup	4	70.3	10.0	< 10	45.3	2.6	1350	< 0.01	< 2	< 8	3.5	5.9	5	6.7	0.5	9	6.5	7.7	0.2	3.5	< 5	1.2	24.5
Method Blank	5	4.1	< 0.4	70	2.1	< 0.1	0.5	0.01	< 2	< 8	< 0.1	2.0	4	0.6	< 0.1	9	< 0.1	< 0.1	< 0.1	0.2	< 5	1.6	< 0.1
Method Blank	1	4.5	< 0.4	< 10	< 0.8	< 0.1	2.2	< 0.01	< 2	< 8	< 0.1	< 0.5	< 3	0.6	< 0.1	10	< 0.1	< 0.1	< 0.1	0.2	< 5	0.8	0.1
Method Blank	< 1	3.1	< 0.4	< 10	2.0	< 0.1	1.7	< 0.01	< 2	< 8	< 0.1	< 0.5	< 3	0.4	< 0.1	< 6	< 0.1	< 0.1	< 0.1	0.1	< 5	1.0	< 0.1

Method Blank	< 1	3.6	< 0.4	< 10	1.5	< 0.1	2.2	< 0.01	< 2	< 8	< 0.1	0.7	5	0.5	< 0.1	< 6	< 0.1	< 0.1	< 0.1	0.1	< 5	2.2	0.2
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Analyte Symbol	Yb	Zn	Al2O3	CaO	Fe2O3(T)	K2O	MgO	SiO2	TiO2
Unit Symbol	ppm	ppm	%	%	%	%	%	%	%
Lower Limit	0.1	30	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Method Code	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2
PTM-1a Meas									
PTM-1a Cert									
NIST 696 Meas									
NIST 696 Cert									
DTS-2b Meas		50							
DTS-2b Cert		45.0							
Oreas 74a (Fusion) Meas			2.21				27.89	33.09	
Oreas 74a (Fusion) Cert			2.21				27.9	32.4	
Oreas 74a (Fusion) Meas									
Oreas 74a (Fusion) Cert									
OREAS 101a (Fusion) Meas	16.7								
OREAS 101a (Fusion) Cert	17.5								
NCS DC86314 Meas									
NCS DC86314 Cert									
NCS DC86314 Meas									
NCS DC86314 Cert									
CZN-4 Meas		> 10000							
CZN-4 Cert		550700							
CZN-4 Meas		.00							
CZN-4 Cert		> 10000							
OREAS 922 (Peroxide Fusion) Meas	2.5	320							
OREAS 922 (Peroxide Fusion) Cert	3.17	280							
CCU-1e Meas		> 10000						3.15	

CCU-1e Cert		30200							3.13
CCU-1e Meas		> 10000							
CCU-1e Cert		30200							
OREAS 680 (Peroxide Fusion) Meas									
OREAS 680 (Peroxide Fusion) Cert									
OREAS 139 (Peroxide Fusion) Meas		> 10000							
OREAS 139 (Peroxide Fusion) Cert		133600 .00							
OREAS 139		> 10000							
Analyte Symbol	Yb	Zn	Al2O3	CaO	Fe2O3	K2O	MgO	SiO2	TiO2
Unit Symbol	ppm	ppm	%	%	%	%	%	%	%
Lower Limit	0.1	30	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Method Code	FUSMSNa2O2	FUSMSNa2O2	FUS- Na2O2	FUS- Na2O2	FUS- Na2O2	FUS- Na2O2	FUS- Na2O2	FUS- Na2O2	FUS- Na2O2
(Peroxide Fusion) Meas									
OREAS 139 (Peroxide Fusion) Cert		133600 .00							
OREAS 624 (Peroxide Fusion) Meas	2.1	> 10000							
OREAS 624 (Peroxide Fusion) Cert	1.94	24100							
OREAS 124 (Peroxide Fusion) Meas	1.4								
OREAS 124 (Peroxide Fusion) Cert	1.63								
OREAS 124 (Peroxide Fusion) Meas	1.7								

OREAS 124 (Peroxide Fusion) Cert	1.63								
AMIS 0346 (Peroxide Fusion) Meas									
AMIS 0346 (Peroxide Fusion) Cert									
NCS DC73520 Meas		430							
NCS DC73520 Cert		370							
OREAS 148 (Peroxide Fusion) Meas	1.9	160							
OREAS 148 (Peroxide Fusion) Cert	1.4	160							
OREAS 148 (Peroxide Fusion) Meas	2.0	160							
OREAS 148 (Peroxide Fusion) Cert	1.4	160							
B419109 Orig	2.3	< 30	16.50	0.12	0.84	8.31	0.02	67.91	0.01
B419109 Dup	1.8	30	15.96	0.13	0.80	7.92	0.03	68.13	0.01
Method Blank	< 0.1	< 30							
Method Blank	0.2	< 30							
Method Blank	< 0.1	< 30							
Method Blank	0.1	< 30							



Report No.: A21-17065-Revised
 Report Date: 28-Sep-21
 Date Submitted: 09-Sep-21
 Your Reference: Campus Creek Pegmatites

Grid Metals Corp.
 304-3335 Yonge St
 Toronto Ontario M4N 2M1
 Canada

ATTN: Dave Peck

CERTIFICATE OF ANALYSIS

58 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
UT-7	QOP Sodium Peroxide (Sodium Peroxide Fusion ICPOES + ICPMS)	2021-09-20 14:17:14

REPORT **A21-17065-Revised**

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Notes:



CERTIFIED BY:

Emmanuel Esemé, 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
 LabID: 266



E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Al2O3	CaO	Fe2O3(T)	K2O	MgO	SiO2	TiO2	As	B	Ba	Be	Bi	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Ga	Gd
Unit Symbol	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5	10	3	3	2	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.2	0.1
Method Code	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419034	11.63	0.12	0.72	4.96	0.02	76.80	< 0.01	< 5	< 10	4	< 3	4	< 2	9.3	< 0.2	70	12.9	4	1.2	0.2	< 0.1	25.4	1.7
B419041	10.56	0.46	1.71	1.91	0.03	77.76	0.01	< 5	< 10	15	4	< 2	< 2	60.9	0.7	100	3.3	< 2	25.1	19.3	< 0.1	31.9	13.1
B419043	5.15	0.02	1.21	0.92	0.03	79.29	0.02	< 5	< 10	< 3	< 3	6	< 2	8.5	0.4	110	5.3	3	1.5	0.8	< 0.1	26.8	1.6
B419044	12.78	0.47	0.93	2.20	0.05	75.86	0.03	< 5	< 10	20	0.5	4	< 2	12.8	< 0.2	80	3.0	2	1.9	1.2	< 0.1	31.6	1.7
B419045	13.35	0.19	0.92	5.53	0.04	73.87	0.03	< 5	< 10	11	4	8	< 2	13.5	0.7	80	16.6	< 2	1.9	0.5	< 0.1	45.0	3.2
B419046	12.40	0.31	0.76	2.13	0.02	75.16	0.02	< 5	< 10	< 3	< 3	< 2	< 2	16.9	0.2	70	6.7	< 2	1.5	0.9	< 0.1	39.0	2.3
B419047	13.68	0.37	1.56	4.55	0.03	70.50	0.02	< 5	< 10	32	< 3	< 2	< 2	50.1	< 0.2	90	10.6	4	14.2	10.2	< 0.1	37.3	9.1
B419048	0.77	0.12	0.98	0.09	0.06	92.49	< 0.01	< 5	< 10	14	3	< 2	< 2	2.4	0.3	150	0.8	3	< 0.3	< 0.1	< 0.1	3.6	0.1
B419049	10.84	0.18	1.15	4.76	0.03	74.22	0.02	< 5	< 10	5	< 3	< 2	< 2	6.2	0.5	80	13.2	7	2.0	0.9	< 0.1	22.9	2.3
B419051	12.51	0.37	0.93	3.96	0.02	75.94	0.01	< 5	< 10	17	4	2	< 2	18.0	< 0.2	60	23.9	< 2	7.5	5.6	< 0.1	25.1	5.4
B419052	14.44	0.12	0.76	4.88	0.02	70.95	0.01	< 5	< 10	12	4	7	< 2	24.2	< 0.2	60	112	< 2	3.7	0.9	< 0.1	47.3	7.1
B419055	14.02	0.02	0.50	8.29	0.01	74.51	< 0.01	33	< 10	14	< 3	< 2	< 2	4.3	< 0.2	120	19.5	10	< 0.3	0.1	< 0.1	28.4	0.4
B419057	12.71	0.10	0.80	4.58	0.04	77.30	0.01	< 5	< 10	5	< 3	5	< 2	12.4	0.4	70	13.8	4	1.4	0.3	< 0.1	35.8	2.5
B419058	13.91	0.20	0.71	3.47	0.02	69.83	< 0.01	< 5	< 10	< 3	7	24	< 2	20.5	< 0.2	70	64.2	2	3.2	1.0	< 0.1	35.9	3.9
B419059	15.85	0.20	1.25	6.15	0.03	67.91	0.01	< 5	< 10	7	< 3	12	< 2	22.1	< 0.2	70	16.7	8	12.6	7.7	< 0.1	33.4	6.3
B419061	8.90	0.13	0.90	2.77	0.02	72.63	< 0.01	< 5	< 10	4	< 3	< 2	< 2	8.0	0.4	80	6.2	2	4.3	1.6	< 0.1	23.3	2.7
B419062	11.22	0.38	0.95	3.66	0.04	73.61	0.03	< 5	< 10	18	< 3	< 2	< 2	4.9	< 0.2	70	3.6	5	3.9	2.5	< 0.1	25.9	3.1
B419063	14.30	0.31	1.01	3.34	0.03	76.94	0.01	< 5	< 10	5	< 3	2	< 2	22.2	0.6	60	4.2	< 2	6.6	3.0	< 0.1	34.1	6.7
B419064	12.82	1.15	0.96	2.42	0.11	68.82	0.05	< 5	< 10	229	< 3	6	< 2	5.2	1.1	70	7.6	4	0.8	0.4	0.4	24.6	0.7
B419065	13.38	< 0.01	0.51	7.89	< 0.01	67.49	< 0.01	< 5	< 10	8	< 3	4	< 2	8.6	< 0.2	70	30.4	< 2	1.5	0.4	< 0.1	28.9	1.8
B419066	10.34	0.12	1.05	5.19	0.02	64.65	0.02	< 5	< 10	9	< 3	4	< 2	4.5	< 0.2	70	6.7	< 2	1.3	0.7	< 0.1	24.2	1.2
B419067	14.28	0.18	1.09	4.40	0.04	67.86	0.02	< 5	< 10	6	< 3	6	< 2	26.5	< 0.2	70	14.6	< 2	4.6	2.0	< 0.1	44.8	6.3
B419068	15.70	0.37	0.97	4.88	0.02	73.30	< 0.01	< 5	< 10	4	< 3	19	< 2	23.0	< 0.2	60	8.3	< 2	7.1	4.2	< 0.1	34.5	5.4
B419069	8.51	0.12	1.00	1.94	0.51	75.66	0.01	< 5	< 10	16	< 3	10	< 2	5.2	0.4	90	6.7	13	2.9	1.5	0.2	18.8	2.2
B419071	14.79	0.14	0.62	7.28	< 0.01	72.89	< 0.01	< 5	< 10	8	< 3	< 2	< 2	4.8	0.4	70	68.2	< 2	1.2	0.5	< 0.1	30.5	1.0
B419072	12.47	0.16	0.63	4.14	0.02	77.58	0.01	< 5	< 10	3	5	2	< 2	5.9	< 0.2	60	57.0	< 2	2.5	0.3	< 0.1	46.5	3.4
B419073	12.51	0.25	1.20	3.10	0.03	76.35	0.03	< 5	< 10	7	< 3	< 2	< 2	13.3	< 0.2	70	12.6	< 2	3.3	1.7	< 0.1	44.7	4.1
B419074	16.45	0.05	0.41	9.84	< 0.01	68.84	< 0.01	< 5	< 10	18	< 3	< 2	< 2	2.4	0.2	80	42.8	< 2	0.4	0.1	< 0.1	33.1	0.5
B419075	15.83	0.07	0.67	9.20	0.01	69.66	0.01	< 5	< 10	< 3	< 3	9	< 2	12.9	< 0.2	50	11.9	< 2	1.2	0.2	< 0.1	32.0	1.1
B419076	1.80	< 0.01	0.86	0.33	< 0.01	76.93	< 0.01	< 5	< 10	< 3	< 3	< 2	< 2	2.6	0.6	100	11.7	< 2	1.2	0.5	< 0.1	11.1	1.4
B419077	10.30	0.06	0.91	5.22	< 0.01	69.04	< 0.01	< 5	< 10	5	< 3	< 2	< 2	6.2	< 0.2	90	25.2	< 2	2.4	1.1	< 0.1	28.5	1.5
B419078	12.99	0.17	0.92	5.54	0.05	79.25	0.03	< 5	< 10	6	< 3	< 2	< 2	11.2	< 0.2	90	39.5	< 2	3.7	1.0	< 0.1	36.5	4.6

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B419079	12.91	0.34	0.84	4.59	0.01	77.56	0.01	< 5	< 10	8	< 3	< 2	< 2	12.5	1.3	110	9.2	< 2	3.1	2.9	< 0.1	26.2	1.8
B419081	13.36	0.29	0.62	8.21	0.01	73.47	0.01	< 5	< 10	195	< 3	< 2	< 2	1.6	< 0.2	70	15.4	< 2	0.3	0.2	0.2	27.5	0.3
B419082	15.64	0.05	0.67	9.43	0.01	70.80	0.01	< 5	< 10	13	< 3	13	< 2	10.7	< 0.2	50	16.6	< 2	2.4	0.4	< 0.1	36.8	3.8
B419083	11.67	0.09	0.81	4.33	0.08	80.14	0.02	< 5	30	21	< 3	< 2	< 2	9.7	2.0	370	8.5	7	3.4	1.5	< 0.1	25.7	4.9
B419084	12.64	0.06	0.60	6.89	0.03	63.31	< 0.01	< 5	< 10	11	< 3	14	< 2	6.0	< 0.2	80	28.9	21	0.7	0.5	< 0.1	29.8	0.9
B419086	12.14	0.19	1.12	3.81	0.03	78.78	0.02	< 5	< 10	< 3	< 3	< 2	< 2	17.8	< 0.2	80	13.6	10	4.9	3.6	< 0.1	40.2	3.8
B419087	18.34	0.70	1.48	1.57	0.06	69.11	0.05	< 5	< 10	15	7	2	< 2	99.9	< 0.2	60	20.6	8	9.7	2.4	< 0.1	55.7	17.5
B419091	15.36	0.36	0.72	2.45	0.03	73.75	0.01	< 5	< 10	< 3	4	322	< 2	13.5	< 0.2	60	11.4	5	1.0	0.2	< 0.1	39.3	1.8
B419092	11.50	0.12	0.96	2.38	0.02	79.49	< 0.01	< 5	< 10	6	< 3	2	< 2	17.3	1.2	80	7.5	< 2	2.9	0.9	< 0.1	45.6	3.5
B419093	14.47	0.14	1.08	4.88	0.03	65.72	0.02	< 5	10	< 3	< 3	17	< 2	11.6	< 0.2	60	12.9	6	0.5	0.1	< 0.1	47.0	1.7
B419094	12.46	0.20	1.01	3.39	0.01	77.77	< 0.01	< 5	< 10	6	< 3	4	< 2	27.2	< 0.2	70	9.5	< 2	8.9	4.7	< 0.1	30.6	6.8
B419095	12.19	0.12	1.00	3.06	0.02	70.44	0.01	18	< 10	5	< 3	2	< 2	19.5	< 0.2	80	13.6	< 2	5.3	2.1	< 0.1	42.9	4.7
B419096	9.01	0.11	0.79	3.50	< 0.01	82.22	< 0.01	< 5	< 10	3	< 3	< 2	< 2	14.5	< 0.2	80	8.4	< 2	2.4	0.6	< 0.1	23.9	3.1
B419097	14.54	0.15	0.83	4.52	0.03	74.09	0.01	< 5	< 10	4	< 3	3	< 2	15.6	< 0.2	60	16.6	< 2	2.6	1.1	< 0.1	46.9	3.4
B419098	16.11	0.18	0.87	6.04	< 0.01	74.40	< 0.01	< 5	< 10	< 3	< 3	29	< 2	12.4	< 0.2	60	21.0	2	6.3	2.4	< 0.1	35.2	3.8
B419101	14.65	0.08	0.47	7.87	< 0.01	72.18	< 0.01	< 5	< 10	6	< 3	6	< 2	5.4	0.6	80	28.8	< 2	0.3	< 0.1	< 0.1	28.8	0.6
B419102	13.02	0.11	1.26	3.92	0.04	79.42	0.02	< 5	< 10	< 3	< 3	17	< 2	25.3	< 0.2	70	13.2	< 2	2.0	0.7	< 0.1	62.5	3.4

Analyte Symbol	Al2O3	CaO	Fe2O3(T)	K2O	MgO	SiO2	TiO2	As	B	Ba	Be	Bi	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Ga	Gd
Unit Symbol	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5	10	3	3	2	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.2	0.1
Method Code	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419104	13.92	0.18	0.56	4.61	0.01	74.68	< 0.01	< 5	< 10	7	< 3	< 2	< 2	9.2	< 0.2	90	53.5	11	1.7	0.6	< 0.1	39.8	2.4
B419105	10.28	0.11	1.30	1.89	0.02	80.05	< 0.01	< 5	< 10	< 3	< 3	3	< 2	14.7	< 0.2	90	6.0	< 2	4.0	0.8	< 0.1	37.1	5.0
B419106	12.71	0.37	0.90	4.29	0.01	78.62	0.01	< 5	< 10	4	< 3	< 2	< 2	11.2	< 0.2	60	12.2	< 2	4.4	3.3	< 0.1	25.0	3.2
B419108	13.30	0.17	0.71	6.40	< 0.01	80.20	< 0.01	< 5	< 10	4	< 3	2	< 2	6.6	< 0.2	80	14.8	< 2	1.7	0.5	< 0.1	26.1	1.5
OREAS 148-1	9.92	1.16	4.31	1.79	0.77	72.33	0.57	65	20	1030	39	21	3	859	6.6	110	331	355	6.0	2.3	7.6	31.9	17.5
BLANK-1	23.78	0.44	0.88	4.54	0.11	59.31	0.02	< 5	10	27	< 3	< 2	< 2	5.2	0.8	40	1.8	< 2	0.8	0.5	0.4	23.6	0.5
OREAS 148-2	9.92	1.22	4.41	1.84	0.75	77.16	0.58	61	20	997	37	20	2	847	6.8	130	332	357	6.8	1.7	7.6	26.5	14.8
BLANK-2	23.07	0.44	0.88	4.53	0.11	58.95	0.02	< 5	20	23	< 3	< 2	< 2	4.8	0.4	50	1.6	16	0.8	0.9	0.3	25.2	1.0
OREAS 148-3	10.18	1.07	4.52	1.87	0.77	66.88	0.58	64	20	983	37	20	< 2	712	5.4	130	316	348	5.9	1.8	6.9	27.5	16.1

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Analyte Symbol	Ge	Ho	Hf	In	La	Li	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	S	Sb	Se	Sm	Sn	Sr	Ta	Tb	Te
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.7	0.2	10	0.2	0.4	3	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.1	0.5	3	0.2	0.1	6
Method Code	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUS-Na2O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2
B419034	2.0	< 0.2	< 10	< 0.2	3.7	63	415	1	28.1	3.8	< 10	19.7	1.5	1000	< 0.01	< 2	< 8	1.4	2.5	4	4.1	0.3	13
B419041	4.3	5.3	< 10	< 0.2	22.4	35	4790	4	42.7	30.2	10	22.0	8.9	315	0.05	< 2	15	11.4	4.6	11	8.2	2.6	8
B419043	1.3	0.3	< 10	< 0.2	4.2	96	267	6	44.8	3.9	< 10	14.4	1.2	241	< 0.01	< 2	< 8	1.0	4.6	< 3	3.1	0.2	6
B419044	1.9	0.4	< 10	< 0.2	5.1	50	355	3	74.4	5.5	< 10	28.3	1.4	282	< 0.01	< 2	< 8	1.7	3.9	24	9.5	0.3	8
B419045	2.9	< 0.2	< 10	< 0.2	5.5	126	78	1	44.5	7.4	< 10	36.7	2.1	1050	< 0.01	< 2	< 8	2.7	7.8	8	8.0	0.3	6
B419046	2.8	0.3	< 10	0.2	7.5	70	292	4	53.2	6.4	< 10	25.3	1.8	353	< 0.01	< 2	< 8	1.7	5.8	5	4.8	0.2	< 6
B419047	3.9	3.1	< 10	< 0.2	19.8	45	3280	5	71.1	26.6	20	35.4	8.1	684	< 0.01	< 2	11	7.2	6.6	19	9.7	1.9	< 6
B419048	2.1	< 0.2	< 10	< 0.2	0.4	11	72	9	6.7	< 0.4	30	3.7	0.1	12.5	< 0.01	< 2	< 8	0.2	< 0.5	24	0.7	< 0.1	< 6
B419049	2.6	0.4	< 10	< 0.2	3.7	45	436	5	35.9	3.6	20	35.5	0.7	794	< 0.01	< 2	< 8	1.4	6.3	5	6.0	0.3	6
B419051	2.1	1.7	< 10	< 0.2	5.8	23	1070	4	32.5	9.5	< 10	28.2	2.9	716	< 0.01	< 2	< 8	2.6	2.1	15	5.0	1.1	9
B419052	3.4	0.4	< 10	< 0.2	9.1	96	277	2	69.0	11.4	< 10	25.7	3.4	1140	< 0.01	< 2	< 8	6.4	14.0	4	15.3	0.9	12
B419055	3.2	< 0.2	< 10	< 0.2	2.0	29	64	8	7.5	1.0	10	44.2	0.3	1720	0.04	< 2	< 8	0.3	1.0	< 3	1.0	< 0.1	< 6
B419057	2.6	0.3	< 10	< 0.2	5.4	47	118	6	85.2	6.9	< 10	20.6	1.9	896	< 0.01	< 2	< 8	3.1	4.8	< 3	9.0	0.3	6
B419058	3.4	0.4	< 10	< 0.2	8.3	78	483	4	50.3	9.1	< 10	21.6	2.6	663	< 0.01	< 2	< 8	4.1	5.3	6	13.2	0.5	< 6
B419059	2.3	2.3	< 10	< 0.2	7.6	36	1310	2	34.4	9.1	< 10	40.2	2.2	902	< 0.01	< 2	21	4.1	2.4	12	5.1	1.4	10
B419061	2.7	0.8	< 10	< 0.2	2.1	16	744	4	61.2	3.8	10	12.9	1.3	471	< 0.01	< 2	< 8	1.4	1.5	< 3	8.7	0.6	7
B419062	1.9	0.7	10	< 0.2	2.2	37	558	4	45.9	2.3	< 10	26.2	0.7	463	0.02	< 2	< 8	2.2	1.5	11	23.8	0.5	8
B419063	3.2	1.3	< 10	< 0.2	7.7	45	858	2	61.8	8.1	< 10	20.5	3.2	503	< 0.01	< 2	< 8	2.8	2.1	4	6.0	0.9	< 6
B419064	1.6	0.2	< 10	< 0.2	2.0	38	248	7	14.7	1.2	< 10	22.6	0.5	399	< 0.01	< 2	< 8	0.5	0.9	126	2.6	0.1	< 6
B419065	3.9	< 0.2	< 10	< 0.2	4.1	23	382	2	123.3	3.2	30	38.0	1.1	1590	< 0.01	< 2	< 8	1.8	4.0	< 3	132	0.4	< 6
B419066	2.3	< 0.2	< 10	< 0.2	2.4	30	247	4	21.2	2.1	< 10	28.8	0.5	634	< 0.01	< 2	< 8	0.8	1.7	4	3.2	0.2	8
B419067	3.1	0.7	< 10	< 0.2	10.8	177	341	4	64.7	13.9	< 10	24.9	3.7	837	< 0.01	< 2	< 8	5.5	6.1	< 3	6.4	1.0	8
B419068	3.0	1.5	< 10	< 0.2	8.6	47	1350	3	52.0	8.6	< 10	31.2	2.7	757	< 0.01	< 2	< 8	4.0	1.9	4	7.3	0.8	< 6

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B419069	1.8	0.5	< 10	< 0.2	2.0	39	235	5	37.9	3.0	< 10	15.1	0.7	299	< 0.01	< 2	< 8	2.1	2.6	8	5.1	0.4	< 6
B419071	2.9	< 0.2	< 10	< 0.2	2.6	36	344	2	43.2	1.9	< 10	36.7	0.4	1330	< 0.01	< 2	< 8	1.4	3.0	4	5.4	0.2	< 6
B419072	4.2	0.3	< 10	< 0.2	3.0	93	139	2	59.4	3.2	< 10	15.2	0.8	1100	< 0.01	< 2	< 8	1.4	13.8	4	23.5	0.5	< 6
B419073	2.3	0.5	< 10	< 0.2	4.5	184	653	2	84.1	7.8	< 10	19.5	1.9	648	< 0.01	< 2	< 8	3.0	9.0	10	8.9	0.5	12
B419074	3.3	< 0.2	< 10	< 0.2	1.9	22	62	5	23.6	< 0.4	< 10	57.2	0.1	1630	< 0.01	< 2	< 8	0.4	2.6	< 3	7.6	< 0.1	< 6
B419075	2.5	0.2	< 10	< 0.2	5.4	107	140	< 1	31.0	5.4	< 10	52.5	1.4	1300	< 0.01	< 2	< 8	1.9	3.2	< 3	2.3	0.3	9
B419076	2.8	< 0.2	< 10	< 0.2	1.0	38	168	5	8.0	1.6	< 10	3.2	0.4	73.5	< 0.01	< 2	< 8	0.9	1.6	< 3	4.5	0.3	< 6
B419077	3.3	0.4	< 10	< 0.2	2.3	49	663	4	31.9	3.4	< 10	29.1	0.8	944	0.03	< 2	< 8	0.9	2.8	< 3	6.1	0.3	< 6
B419078	2.8	0.6	< 10	0.2	4.5	135	147	< 1	65.2	4.7	< 10	31.4	1.4	1020	< 0.01	< 2	< 8	2.1	6.3	5	19.6	0.6	8
B419079	2.3	0.7	< 10	< 0.2	4.8	35	478	2	36.7	4.8	120	35.1	1.4	521	0.01	< 2	< 8	1.8	1.3	10	3.7	0.3	< 6
B419081	1.9	< 0.2	< 10	< 0.2	1.1	9	94	1	8.3	< 0.4	20	23.9	0.1	1070	< 0.01	< 2	11	0.3	0.5	99	1.8	< 0.1	< 6
B419082	3.5	0.3	< 10	< 0.2	5.0	15	93	< 1	43.5	4.5	< 10	54.3	1.1	1620	< 0.01	< 2	< 8	2.4	2.6	12	13.4	0.4	< 6
B419083	1.9	0.5	< 10	< 0.2	3.2	12	98	46	59.6	7.1	50	18.1	1.8	783	< 0.01	< 2	< 8	4.1	2.1	9	9.5	0.6	7
B419084	2.0	< 0.2	< 10	< 0.2	2.2	46	121	3	22.4	3.3	< 10	38.9	0.8	1450	< 0.01	< 2	< 8	1.1	7.6	< 3	8.8	0.1	11
B419086	2.2	1.0	< 10	0.3	7.4	164	758	< 1	55.7	7.3	< 10	19.7	2.3	633	< 0.01	< 2	< 8	2.8	5.9	4	2.7	0.7	10
B419087	3.6	1.2	10	0.3	34.4	79	873	< 1	243.4	46.8	< 10	18.1	13.7	408	< 0.01	< 2	< 8	20.2	18.1	21	63.4	2.0	13
B419091	2.9	< 0.2	< 10	< 0.2	6.5	158	195	2	112.3	5.9	< 10	21.9	1.6	517	< 0.01	< 2	< 8	1.9	4.7	6	20.2	0.2	< 6
B419092	2.1	0.4	< 10	< 0.2	7.3	135	916	5	68.9	9.9	20	10.1	2.7	516	< 0.01	< 2	< 8	3.6	6.1	< 3	6.7	0.5	9
B419093	2.5	< 0.2	< 10	0.2	5.4	287	230	5	48.4	4.8	< 10	22.4	1.6	1020	< 0.01	< 2	< 8	1.8	7.1	4	4.4	< 0.1	< 6
B419094	3.7	1.5	< 10	< 0.2	9.9	109	1800	3	48.5	14.9	< 10	16.8	4.1	671	< 0.01	< 2	< 8	4.4	3.1	5	6.4	1.3	< 6
B419095	2.2	0.9	< 10	< 0.2	6.3	198	1260	3	74.8	8.1	< 10	16.0	3.0	658	< 0.01	< 2	< 8	4.8	6.3	6	11.1	0.9	< 6
B419096	2.2	0.2	< 10	< 0.2	4.8	92	432	5	182.8	7.3	< 10	14.4	2.0	719	0.02	< 2	< 8	3.8	3.8	4	19.0	0.4	11
B419097	3.1	0.5	< 10	< 0.2	5.8	113	560	< 1	63.3	7.4	< 10	18.3	2.4	1180	< 0.01	< 2	< 8	3.2	12.2	< 3	12.1	0.5	< 6
B419098	3.5	1.1	< 10	< 0.2	5.4	107	1360	< 1	29.3	7.3	< 10	25.8	1.8	1190	< 0.01	< 2	12	2.6	3.0	5	4.6	0.8	9
B419101	2.5	< 0.2	< 10	< 0.2	2.8	29	125	< 1	18.3	2.7	30	33.0	0.6	1530	< 0.01	< 2	< 8	0.4	1.4	5	4.3	< 0.1	< 6
B419102	1.8	0.3	< 10	< 0.2	7.8	333	289	< 1	121.7	14.2	< 10	6.0	3.1	947	< 0.01	< 2	< 8	3.3	12.6	8	8.6	0.4	< 6

Analyte Symbol	Ge	Ho	Hf	In	La	Li	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	S	Sb	Se	Sm	Sn	Sr	Ta	Tb	Te
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Results

Activation Laboratories Ltd.

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Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.7	0.2	10	0.2	0.4	3	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.1	0.5	3	0.2	0.1	6
Method Code	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUS-Na2O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2
B419104	2.9	0.2	< 10	< 0.2	3.9	87	168	3	45.7	4.8	60	20.0	1.0	1130	< 0.01	< 2	23	1.3	10.8	4	22.0	0.2	8
B419105	2.8	0.5	< 10	< 0.2	5.6	112	1780	3	166.5	6.9	< 10	7.3	2.4	423	< 0.01	< 2	14	3.7	4.9	< 3	18.4	0.8	< 6
B419106	2.9	0.7	< 10	< 0.2	4.3	33	757	2	41.7	3.8	< 10	32.9	1.2	634	< 0.01	< 2	< 8	1.6	1.4	35	7.7	0.6	< 6
B419108	2.6	0.3	< 10	< 0.2	3.4	53	465	< 1	32.8	2.7	20	34.9	0.9	919	0.01	< 2	30	1.3	1.9	11	7.7	0.1	< 6
OREAS 148-1	7.1	1.0	10	4.0	522	4930	391	10	1604.3	276	30	31.9	98.4	1390	0.02	16	27	39.4	1220	196	21.1	2.0	< 6
BLANK-1	< 0.7	0.2	< 10	< 0.2	3.1	34	109	< 1	3.4	2.1	< 10	5.6	0.6	60.9	< 0.01	< 2	< 8	0.6	0.6	59	0.5	< 0.1	< 6
OREAS 148-2	6.2	1.0	< 10	3.9	522	4780	381	9	1673.1	273	70	24.5	94.0	1320	0.01	18	< 8	31.7	1210	196	20.8	2.1	< 6
BLANK-2	< 0.7	< 0.2	< 10	< 0.2	2.6	36	105	2	3.5	1.7	< 10	7.7	0.5	68.4	< 0.01	< 2	< 8	0.7	0.7	57	0.4	< 0.1	12
OREAS 148-3	5.7	1.0	< 10	3.8	483	4760	357	9	1174.7	233	30	24.1	82.0	1320	0.03	14	< 8	27.4	1170	176	18.8	2.1	< 6

Analyte Symbol	Th	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419034	1.0	6.5	0.1	1.1	< 5	< 0.7	9.3	0.8	< 30
B419041	15.2	1.6	3.6	10.3	< 5	1.7	242	29.1	< 30
B419043	2.0	1.0	0.1	0.7	< 5	< 0.7	8.9	0.8	50
B419044	3.9	1.5	0.2	4.8	< 5	1.6	15.1	2.0	30
B419045	4.3	5.9	< 0.1	1.3	< 5	< 0.7	14.7	0.8	30
B419046	4.9	2.0	0.2	2.9	< 5	0.8	12.7	1.1	50
B419047	18.7	4.0	2.0	7.2	< 5	1.0	135	15.2	30
B419048	0.3	< 0.1	< 0.1	0.2	< 5	< 0.7	0.5	< 0.1	< 30
B419049	2.6	4.5	0.1	2.9	< 5	2.9	11.3	0.7	< 30
B419051	10.0	4.2	1.0	4.1	< 5	< 0.7	58.0	6.8	30
B419052	5.7	6.7	0.1	3.9	< 5	2.4	25.1	0.7	140
B419055	0.4	10.4	< 0.1	0.5	< 5	0.9	2.8	0.2	< 30
B419057	1.5	5.2	< 0.1	1.6	< 5	1.4	9.4	0.5	< 30
B419058	4.0	4.1	0.2	2.4	< 5	< 0.7	22.3	1.2	40
B419059	9.5	5.5	1.0	2.5	< 5	< 0.7	80.5	10.0	< 30
B419061	2.4	3.1	0.3	1.3	< 5	1.8	26.2	1.3	< 30
B419062	10.0	2.1	0.4	3.9	< 5	1.3	33.2	2.6	50
B419063	7.6	2.6	0.6	5.7	< 5	0.7	44.8	3.8	< 30
B419064	9.6	2.1	< 0.1	5.6	< 5	< 0.7	7.7	0.4	< 30
B419065	2.9	9.7	< 0.1	3.8	< 5	0.8	10.9	1.4	< 30
B419066	2.0	3.7	0.1	1.9	< 5	< 0.7	7.1	1.0	30
B419067	9.6	4.8	0.4	4.5	< 5	0.9	36.5	2.1	40
B419068	7.0	4.2	0.8	5.6	< 5	1.2	56.9	5.7	< 30
B419069	3.4	1.9	0.3	4.0	< 5	0.8	15.5	1.4	< 30
B419071	0.9	8.3	< 0.1	1.5	< 5	1.9	7.3	0.7	< 30
B419072	1.9	6.2	< 0.1	1.9	< 5	2.0	16.7	0.6	30
B419073	4.6	3.8	0.2	4.4	< 5	1.5	22.9	1.8	70
B419074	0.4	9.2	< 0.1	0.9	< 5	1.7	2.8	0.2	< 30
B419075	3.2	7.9	0.1	3.2	< 5	< 0.7	6.8	0.4	< 30
B419076	1.4	0.5	< 0.1	0.6	< 5	1.7	10.0	0.3	< 30
B419077	2.0	5.9	0.3	2.5	< 5	1.0	20.4	2.0	< 30
B419078	5.6	6.2	0.2	5.1	< 5	0.8	30.5	1.0	30
B419079	4.5	3.0	0.6	5.3	< 5	< 0.7	23.9	4.1	< 30
B419081	1.4	6.3	< 0.1	1.3	< 5	1.9	3.1	0.4	< 30
B419082	2.7	9.8	< 0.1	2.3	< 5	1.4	13.0	0.4	< 30
B419083	3.7	5.2	0.3	2.4	< 5	2.4	16.6	1.9	< 30
B419084	1.6	8.7	< 0.1	0.9	< 5	1.0	4.5	0.8	< 30
B419086	5.3	3.5	0.5	1.6	< 5	1.3	39.2	4.0	30
B419087	28.1	2.4	0.3	13.8	< 5	2.3	42.0	2.8	60
B419091	2.8	3.1	< 0.1	3.1	< 5	2.2	7.1	0.3	30
B419092	3.2	2.8	0.1	1.1	< 5	0.8	16.1	0.5	150

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B419093	3.5	5.6	< 0.1	0.7	< 5	1.3	3.2	0.4	50
B419094	5.7	3.7	0.6	2.3	< 5	< 0.7	75.1	3.7	70
B419095	4.1	3.9	0.4	6.4	< 5	1.7	31.9	2.4	100
B419096	2.5	3.8	< 0.1	1.5	< 5	1.4	11.1	0.6	70
B419097	3.6	6.8	0.3	1.4	< 5	< 0.7	24.0	1.9	30
B419098	2.5	7.8	0.4	1.9	< 5	1.1	53.2	1.9	70
B419101	0.6	10.0	< 0.1	0.5	< 5	0.8	2.4	0.3	30
B419102	4.9	4.5	0.1	0.9	< 5	2.1	11.9	0.9	60

Analyte Symbol	Th	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419104	2.4	7.0	< 0.1	0.8	< 5	< 0.7	13.0	0.3	30
B419105	2.5	2.5	0.2	0.8	< 5	1.6	25.1	1.1	140
B419106	3.6	3.5	0.6	3.2	< 5	1.0	36.9	5.0	< 30
B419108	1.8	5.6	0.1	1.2	< 5	1.3	15.1	0.8	50
OREAS 148-1	47.7	13.2	0.3	8.3	59	6.9	19.2	1.7	170
BLANK-1	0.7	0.7	0.2	0.4	< 5	< 0.7	5.6	0.4	< 30
OREAS 148-2	50.0	11.9	0.3	8.5	51	7.7	21.0	1.3	150
BLANK-2	0.8	0.6	0.1	0.5	< 5	2.0	6.8	0.8	< 30
OREAS 148-3	45.7	11.6	0.2	8.2	56	6.5	18.0	1.4	180

Analyte Symbol	Al2O3	CaO	Fe2O3(T)	K2O	MgO	SiO2	TiO2	As	B	Ba	Be	Bi	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Ga	Gd					
Unit Symbol	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm					
Lower Limit	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5	10	3	3	2	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.2	0.1					
Method Code	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2					
PTM-1a Meas								2130						> 5000				> 10000										
PTM-1a Cert								2200						20500.00				249600.00										
NIST 696 Meas																320												
NIST 696 Cert																321.0												
DTS-2b Meas										13					130	> 10000							< 2					
DTS-2b Cert										16.0					120	15500							3.00					
Oreas 74a (Fusion) Meas	2.21				27.89	33.09		51							571	1790							1230					
Oreas 74a (Fusion) Cert	2.21				27.9	32.4		50							581								1240.000					
Oreas 74a (Fusion) Meas								49							555	1790							1250					
Oreas 74a (Fusion) Cert								50							581								1240.000					
OREAS 101a (Fusion) Meas														1270	50.0								443	32.6	18.6	6.9		33.0
OREAS 101a (Fusion) Cert														1396	48.8								434	33.3	19.5	8.06		43.4
NCS DC86314 Meas																							2860					
NCS DC86314 Cert																							2830					
NCS DC86314 Meas																							2800					
NCS DC86314																							2830					

Lower Limit	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5	10	3	3	2	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.2	0.1	
Method Code	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	
OREAS 139 (Peroxide Fusion) Meas								339			3	8	276	55.6	25.4		4.8	298			2.4		12.5	
OREAS 139 (Peroxide Fusion) Cert								332			3.17	6.64	296	49.4	26.0		3.21	274			1.69		10.2	
OREAS 624 (Peroxide Fusion) Meas								118		1020		23	128	33.1	257		1.7	> 10000					26.4	
OREAS 624 (Peroxide Fusion) Cert								115		1070		21.3	133	32.9	273		1.32	30800					22.1	
OREAS 124 (Peroxide Fusion) Meas										1050	< 3			53.8		90			3.4	1.8	1.4	11.2	3.1	
OREAS 124 (Peroxide Fusion) Cert										1020	1.83			47.6		51.0			2.82	1.60	1.15	10.5	3.47	
OREAS 124 (Peroxide Fusion) Meas										1060	< 3			50.3		80			2.7	1.8	1.8	11.9	3.8	
OREAS 124 (Peroxide Fusion) Cert										1020	1.83			47.6		51.0			2.82	1.60	1.15	10.5	3.47	
AMIS 0346 (Peroxide Fusion) Meas																								
AMIS 0346 (Peroxide Fusion) Cert																								

NCS DC73520 Meas									7				7	< 2		13.2	90		44						
NCS DC73520 Cert									5				7	0.5		12.9	20		46						
OREAS 148 (Peroxide Fusion) Meas									66		1030	38	19		832	130	327	351	7.6	2.1	7.8	32.3	18.0		
OREAS 148 (Peroxide Fusion) Cert									59		1010	39	19		795	69	311	351	6.1	2.0	7.2	29.2	15.8		
OREAS 148 (Peroxide Fusion) Meas									65		1010	37	21		843	130	332	350	6.4	2.2	8.1	31.3	18.1		
OREAS 148 (Peroxide Fusion) Cert									59		1010	39	19		795	69	311	351	6.1	2.0	7.2	29.2	15.8		
B419058 Orig	13.68	0.17	0.68	3.44	0.02	65.07	< 0.01	< 5	< 10	< 3	7	22	< 2	20.6	< 0.2	70	64.3	2	3.0	1.0	< 0.1	34.5	3.7		
B419058 Dup	14.14	0.24	0.73	3.49	0.02	74.58	< 0.01	< 5	< 10	4	7	26	< 2	20.4	< 0.2	70	64.2	2	3.4	1.1	< 0.1	37.4	4.1		
B419068 Orig	15.47	0.37	0.96	4.86	0.02	72.13	< 0.01	< 5	< 10	4	< 3	19	< 2	23.7	< 0.2	60	8.4	< 2	7.3	4.5	< 0.1	35.3	6.3		
B419068 Dup	15.93	0.37	0.97	4.91	0.02	74.47	< 0.01	< 5	< 10	5	< 3	19	< 2	22.3	< 0.2	70	8.2	< 2	6.8	3.9	< 0.1	33.6	4.5		
B419081 Orig	13.32	0.26	0.62	8.14	0.01	72.64	0.01	< 5	< 10	195	< 3	< 2	< 2	1.6	< 0.2	70	15.4	< 2	0.3	0.2	0.2	27.5	0.3		
B419081 Dup	13.39	0.31	0.62	8.28	0.01	74.29	0.01																		
B419097 Orig	14.18	0.11	0.81	4.37	0.02	72.71	0.01	< 5	< 10	5	< 3	3	< 2	15.2	< 0.2	60	15.9	< 2	2.3	1.0	< 0.1	42.4	3.3		
B419097 Dup	14.90	0.19	0.85	4.66	0.03	75.46	0.01	< 5	< 10	4	< 3	3	< 2	16.1	< 0.2	60	17.3	4	3.0	1.2	< 0.1	51.4	3.5		
B419104 Orig	13.92	0.18	0.56	4.61	0.01	74.68	< 0.01	< 5	< 10	7	< 3	< 2	< 2	9.2	< 0.2	90	53.5	11	1.7	0.6	< 0.1	39.8	2.4		
B419104 Split PREP DUP	13.51	0.16	0.53	4.38	0.02	72.94	< 0.01	< 5	< 10	7	3	< 2	< 2	9.1	< 0.2	60	55.1	< 2	2.0	0.4	< 0.1	37.2	2.3		

Analyte Symbol	Al2O3	CaO	Fe2O3(T)	K2O	MgO	SiO2	TiO2	As	B	Ba	Be	Bi	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Ga	Gd
Unit Symbol	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.01	0.01	0.01	0.01	5	10	3	3	2	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.2	0.1

Method Code	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419105 Orig	10.73	0.13	1.34	1.98	0.02	84.49	< 0.01	< 5	< 10	3	< 3	3	< 2	14.2	0.4	70	5.9	< 2	3.9	0.6	< 0.1	35.4	4.8
B419105 Dup	9.83	0.10	1.25	1.81	0.02	75.61	< 0.01	< 5	< 10	< 3	< 3	3	< 2	15.2	< 0.2	110	6.1	28	4.1	0.9	< 0.1	38.8	5.1
B419108 Orig	13.30	0.17	0.71	6.40	< 0.01	80.20	< 0.01	< 5	< 10	4	< 3	2	< 2	6.6	< 0.2	80	14.8	< 2	1.7	0.5	< 0.1	26.1	1.5
B419108 Split PREP DUP	13.11	0.14	0.63	6.21	< 0.01	79.16	< 0.01	< 5	< 10	< 3	< 3	3	< 2	7.4	< 0.2	60	17.7	< 2	1.8	0.9	< 0.1	33.1	1.3
Method Blank								< 5	< 10	19	< 3	< 2	< 2	< 0.8	0.8	70	0.5	8	< 0.3	< 0.1	< 0.1	0.3	< 0.1
Method Blank								< 5	< 10	< 3	< 3	< 2	< 2	< 0.8	0.3	50	0.7	< 2	< 0.3	< 0.1	< 0.1	< 0.2	< 0.1
Method Blank								< 5	< 10	< 3	< 3	< 2	< 2	< 0.8	< 0.2	50	0.1	4	< 0.3	< 0.1	< 0.1	< 0.2	< 0.1
Method Blank								< 5	< 10	< 3	< 3	< 2	< 2	< 0.8	< 0.2	50	0.6	< 2	< 0.3	< 0.1	< 0.1	< 0.2	< 0.1

Analyte Symbol	Ge	Ho	Hf	In	La	Li	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	S	Sb	Se	Sm	Sn	Sr	Ta	Tb	Te
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.7	0.2	10	0.2	0.4	3	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.1	0.5	3	0.2	0.1	6
Method Code	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUS- Na2O 2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2
PTM-1a Meas											> 10000				23.6								
PTM-1a Cert											474400.00				22.4								
NIST 696 Meas																							
NIST 696 Cert																							
DTS-2b Meas	< 0.7						844				3820	4.8		2.6		< 2							
DTS-2b Cert	0.700						830				3780	4.00		2.00		0.600							
Oreas 74a (Fusion) Meas											> 10000				7.21								
Oreas 74a (Fusion) Cert											32400.00				7.25								
Oreas 74a (Fusion) Meas											> 10000												
Oreas 74a (Fusion) Cert											32400.00												
OREAS 101a (Fusion) Meas		6.5			830		943	21		386			118					46.3				5.8	
OREAS 101a (Fusion) Cert		6.46			816		964	21.9		403			134					48.8				5.92	
NCS DC8631 4 Meas						> 10000								> 5000						155			
NCS DC8631 4 Cert						18100.00								11400						152			

NCS DC8631 4 Meas						> 10000												148			
NCS DC8631 4 Cert						18100.00								11400				152			
CZN-4 Meas											1790			> 25.0			75				
CZN-4 Cert											1861.0 000			33.0 7			86.7				
CZN-4 Meas											1840						92				
CZN-4 Cert											1861.0 000						86.7				
OREAS 922 (Peroxide Fusion) Meas		1.3	10	0.3	44.1	34	910		14.8	34.6	60	65.1	11.3	170	0.35		7.1	13.2	64	1.4	1.0
OREAS 922 (Peroxide Fusion) Cert		1.20	5.93	0.3	45.6	29	880		15.2	38.9	40	64.0	10.6	167	0.389		7.31	10.0	58.0	1.3	1.02
CCU-1e Meas							95					> 5000			> 25.0	111					64
CCU-1e Cert							96.0					7030			35.3	104					61.8
CCU-1e Meas							90					> 5000				111					53
CCU-1e Cert							96.0					7030				104					61.8
OREAS 680 (Peroxide Fusion) Meas															5.16						
OREAS 680 (Peroxide Fusion) Cert															5.14						
OREAS 139 (Peroxide Fusion) Meas				0.8	25.7	50	6450	10				> 5000		143	15.2	65			487		0.4
OREAS 139				0.690	23.1	40.4	6570	11.1				22000		145	16.04	63.0			479		0.500

(Peroxide Fusion) Cert																							
OREAS 139				0.8	27.5	46	6750	7				> 5000		135		60				505		0.4	

Analyte Symbol	Ge	Ho	Hf	In	La	Li	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	S	Sb	Se	Sm	Sn	Sr	Ta	Tb	Te
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.7	0.2	10	0.2	0.4	3	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.1	0.5	3	0.2	0.1	6
Method Code	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2	FUSMSNa2 O2

(Peroxide Fusion) Meas																							
OREAS 139 (Peroxide Fusion) Cert				0.690	23.1	40.4	6570	11.1				22000		145		63.0				479		0.500	
OREAS 624 (Peroxide Fusion) Meas				3.7	17.2	20	626	16	7.8	16.8		> 5000	4.2	37.8	13.0	66				38			
OREAS 624 (Peroxide Fusion) Cert				4.14	17.3	10.3	660	17.8	5.78	16.8		6120	4.27	33.0	13.2	72.0				47.6			
OREAS 124 (Peroxide Fusion) Meas		0.7	< 10		22.3		705			20.5			5.7	96.3				5.5				0.5	
OREAS 124 (Peroxide Fusion) Cert		0.580	6.22		21.6		700			20.8			5.39	86.0				4.21				0.480	
OREAS 124 (Peroxide Fusion) Meas		0.4	< 10		23.5		683			22.9			6.7	86.7				5.3				0.5	

OREAS 124 (Peroxide Fusion) Cert		0.580	6.22		21.6		700			20.8			5.39	86.0				4.21				0.480	
AMIS 0346 (Peroxide Fusion) Meas																							
AMIS 0346 (Peroxide Fusion) Cert																							
NCS DC73520 Meas	7.1						8850	1510		80	9.9			0.45	< 2			5.0					
NCS DC73520 Cert	6.0						9100	1500		50	11			0.44	0.6			4.5					
OREAS 148 (Peroxide Fusion) Meas		1.0	< 10	3.7	514	4650	372	8	1501.0	282			88.4	1360		19		33.4	1230	191		2.3	
OREAS 148 (Peroxide Fusion) Cert		0.94	4	4.2	478	4760	380	10	1680.0	260			82.0	1360		16		34.3	1160	209		1.6	
OREAS 148 (Peroxide Fusion) Meas		1.0	< 10	4.4	519	4840	375	8	1691.9	280			94.3	1330		16		37.0	1180	207		2.1	
OREAS 148 (Peroxide Fusion) Cert		0.9	4	4.2	478	4760	380	10	1680.0	260			82.0	1360		16		34.3	1160	209		1.6	
B419058 Orig	3.5	0.3	< 10	< 0.2	8.5	78	477	2	42.2	8.0	10	22.7	2.6	670	< 0.01	< 2	< 8	3.7	5.2	7	11.3	0.4	< 6
B419058 Dup	3.3	0.5	< 10	< 0.2	8.1	78	489	6	58.3	10.2	< 10	20.4	2.6	657	0.01	< 2	< 8	4.5	5.4	6	15.1	0.5	6
B419068 Orig	3.0	1.6	< 10	< 0.2	8.5	46	1380	3	52.9	9.2	< 10	31.7	2.7	750	< 0.01	< 2	< 8	4.4	1.8	5	7.7	0.8	< 6
B419068 Dup	3.0	1.3	< 10	< 0.2	8.6	48	1330	2	51.2	8.0	< 10	30.7	2.7	765	< 0.01	< 2	11	3.6	2.0	4	7.0	0.9	6
B419081 Orig	1.9	< 0.2	< 10	< 0.2	1.1	9	94	1	8.3	< 0.4	20	23.9	0.1	1070	< 0.01	< 2	11	0.3	0.5	99	1.8	< 0.1	< 6

Analyte Symbol	Th	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
PTM-1a Meas									
PTM-1a Cert									
NIST 696 Meas					371				
NIST 696 Cert					403.00 00				
DTS-2b Meas					24				50
DTS-2b Cert					22.0				45.0
Oreas 74a (Fusion) Meas									
Oreas 74a (Fusion) Cert									
Oreas 74a (Fusion) Meas									
Oreas 74a (Fusion) Cert									
OREAS 101a (Fusion) Meas	31.9		2.7	404	82		166	16.7	
OREAS 101a (Fusion) Cert	36.6		2.90	422	83		183	17.5	
NCS DC86314 Meas						74.0			
NCS DC86314 Cert						79.0			
NCS DC86314 Meas						77.1			
NCS DC86314 Cert						79.0			

CZN-4 Meas									> 10000
CZN-4 Cert									550700
CZN-4 Meas									> 10000
CZN-4 Cert									550700 .00
OREAS 922 (Peroxide Fusion) Meas	17.0	0.7	0.5	3.5	98	33.3	2.5	320	
OREAS 922 (Peroxide Fusion) Cert	17.7	0.9	0.510	3.6	92.0	31.1	3.17	280	
CCU-1e Meas		2.5							> 10000
CCU-1e Cert		2.69							30200
CCU-1e Meas		2.7							> 10000
CCU-1e Cert		2.69							30200
OREAS 680 (Peroxide Fusion) Meas									
OREAS 680 (Peroxide Fusion) Cert									
OREAS 139 (Peroxide Fusion) Meas	7.7	35.3		12.5		17.2			> 10000
OREAS 139 (Peroxide Fusion) Cert	7.54	35.4		12.2		17.1			133600 .00
OREAS 139	7.9	35.2		12.2		18.6			> 10000

Analyte Symbol	Th	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2

(Peroxide Fusion) Meas									
OREAS 139 (Peroxide Fusion) Cert	7.54	35.4		12.2			17.1		133600.00
OREAS 624 (Peroxide Fusion) Meas	4.0	0.9		1.3	30	4.3	17.2	2.1	> 10000
OREAS 624 (Peroxide Fusion) Cert	4.12	0.940		1.34	43.3	4.58	17.3	1.94	24100
OREAS 124 (Peroxide Fusion) Meas	5.8		0.3	1850	25		13.3	1.4	
OREAS 124 (Peroxide Fusion) Cert	5.74		0.220	1790	23.3		14.2	1.63	
OREAS 124 (Peroxide Fusion) Meas	6.0		0.3	1810	27		12.1	1.7	
OREAS 124 (Peroxide Fusion) Cert	5.74		0.220	1790	23.3		14.2	1.63	
AMIS 0346 (Peroxide Fusion) Meas					2790				
AMIS 0346 (Peroxide Fusion) Cert					2700				
NCS DC73520 Meas						478			430
NCS DC73520 Cert						518			370
OREAS 148 (Peroxide Fusion) Meas	47.2	13.2	0.3	8.1	56	8.1	23.2	1.9	160

OREAS 148 (Peroxide Fusion) Cert	51.0	12.3	0.2	8.6	56	6.4	19.4	1.4	160
OREAS 148 (Peroxide Fusion) Meas	48.3	12.4	0.2	8.3	57	8.8	19.4	2.0	160
OREAS 148 (Peroxide Fusion) Cert	51.0	12.3	0.2	8.6	56	6.4	19.4	1.4	160
B419058 Orig	3.6	3.8	0.2	2.3	< 5	< 0.7	20.6	1.2	40
B419058 Dup	4.4	4.3	0.1	2.5	< 5	0.9	24.0	1.1	40
B419068 Orig	6.8	4.2	0.9	5.3	< 5	1.0	56.8	6.1	< 30
B419068 Dup	7.1	4.2	0.7	5.9	< 5	1.5	57.0	5.3	40
B419081 Orig	1.4	6.3	< 0.1	1.3	< 5	1.9	3.1	0.4	< 30
B419081 Dup									
B419097 Orig	3.4	6.6	0.3	1.4	< 5	< 0.7	22.9	2.1	30
B419097 Dup	3.8	7.0	0.2	1.4	< 5	0.7	25.1	1.7	40
B419104 Orig	2.4	7.0	< 0.1	0.8	< 5	< 0.7	13.0	0.3	30
B419104 Split PREP DUP	2.4	6.7	< 0.1	0.9	< 5	2.1	10.9	0.3	< 30
B419105 Orig	2.5	2.5	0.2	0.9	< 5	1.7	24.7	1.1	120
Analyte Symbol	Th	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.1	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419105 Dup	2.5	2.5	0.2	0.8	< 5	1.6	25.5	1.2	170
B419108 Orig	1.8	5.6	0.1	1.2	< 5	1.3	15.1	0.8	50
B419108 Split PREP DUP	2.1	5.7	0.2	1.2	< 5	0.8	14.6	0.7	40

QC**Activation Laboratories Ltd.****Report: A21-17065**

Method Blank	< 0.1	< 0.1	< 0.1	0.2	< 5	1.6	< 0.1	< 0.1	< 30
Method Blank	< 0.1	< 0.1	< 0.1	0.2	< 5	0.8	0.1	0.2	< 30
Method Blank	< 0.1	< 0.1	< 0.1	0.1	< 5	1.0	< 0.1	< 0.1	< 30
Method Blank	< 0.1	< 0.1	< 0.1	0.1	< 5	2.2	0.2	0.1	< 30



Report No.: A21-18019
 Report Date: 04-Oct-21
 Date Submitted: 27-Sep-21
 Your Reference: Campus Creek Pegmatites

Grid Metals Corp.
 304-3335 Yonge St
 Toronto Ontario M4N 2M1
 Canada

ATTN: Dave Peck

CERTIFICATE OF ANALYSIS

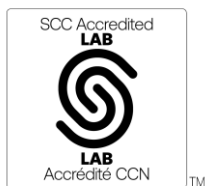
15 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
UT-7-Grid	QOP Sodium Peroxide (Sodium Peroxide Fusion ICPOES + ICPMS)	2021-09-30 15:18:49

REPORT A21-18019

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Notes:



CERTIFIED BY:

Emmanuel Esemé, 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
 LabID: 266 E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Li	Rb	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3 (T)	Ga	Gd	Ge	Ho
Unit Symbol	%	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	0.001	0.001	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2
Method Code	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419117			14.16	< 5	30	37	5	11	0.37	< 2	48.2	5.9	80	168	21	15.1	6.4	< 0.1	1.54	34.5	8.9	5.2	2.2
B419118			10.71	< 5	70	< 3	7	6	0.16	< 2	27.8	3.3	120	95.9	6	3.4	1.6	< 0.1	0.87	35.5	4.2	3.9	0.5
B419119			14.37	< 5	50	4	425	9	0.23	< 2	6.0	2.7	110	1200	11	2.0	0.2	< 0.1	0.73	61.4	4.7	9.0	< 0.2
B419120	1.04		16.18	9	10	19	114	2	0.01	< 2	< 0.8	1.1	60	74.7	17	< 0.3	0.1	< 0.1	1.22	19.2	< 0.1	7.5	< 0.2
B419121			11.84	< 5	10	7	52	13	< 0.01	< 2	2.2	1.0	70	637	9	< 0.3	< 0.1	< 0.1	0.59	34.8	0.4	14.0	< 0.2
B419122			12.55	< 5	40	5	4	60	< 0.01	< 2	2.2	1.0	80	550	2	< 0.3	< 0.1	< 0.1	0.89	56.4	0.4	13.0	< 0.2
B419165			11.28	< 5	20	4	4	12	< 0.01	< 2	2.0	0.3	70	539	9	0.4	< 0.1	< 0.1	0.63	52.5	0.8	8.6	< 0.2
B419166			16.15	< 5	20	4	3	3	0.01	< 2	0.8	0.8	60	479	3	0.5	< 0.1	< 0.1	0.41	44.0	0.6	7.0	< 0.2
B419167	1.03	0.604	16.52	< 5	80	< 3	94	7	0.14	< 2	4.9	2.4	110	2650	5	2.0	0.1	< 0.1	0.60	110	3.5	12.1	< 0.2
B419168			13.33	< 5	480	9	108	46	0.22	< 2	3.4	0.8	60	228	< 2	1.3	0.1	< 0.1	0.69	43.1	1.7	8.2	< 0.2
B419172			14.68	< 5	< 10	8	4	6	0.29	< 2	13.4	0.6	70	30.8	5	3.5	0.7	< 0.1	0.54	46.9	4.6	5.3	0.4
B419190			0.24	< 5	< 10	5	< 3	< 2	0.02	< 2	1.9	1.1	60	0.8	4	< 0.3	0.2	< 0.1	0.48	0.5	0.1	1.1	< 0.2
B419191			15.20	< 5	< 10	3	378	9	0.13	< 2	87.6	0.9	80	101	3	16.1	6.0	< 0.1	1.27	54.9	12.9	6.1	2.4
B419192			14.70	< 5	< 10	6	4	14	0.13	< 2	29.3	< 0.2	50	31.1	< 2	12.2	7.3	< 0.1	1.13	40.7	7.2	4.1	2.3
B419193	1.99		18.85	< 5	50	9	1000	< 2	0.20	< 2	6.1	0.4	70	1030	19	2.7	0.4	< 0.1	0.73	76.1	4.9	18.1	< 0.2

Results

Activation Laboratories Ltd.

Report: A21-18019

Analyte Symbol	Hf	In	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb
Unit Symbol	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	0.2	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1
Method Code	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419117	< 10	< 0.2	4.14	18.1	678	0.06	3060	6	100.1	27.3	60	24.1	6.5	979	74.89	< 2	15	> 30.0	8.6	8.6	36	17.1	2.2
B419118	< 10	< 0.2	1.40	8.9	526	0.01	821	9	148.4	14.4	30	9.0	3.9	434	74.27	< 2	20	> 30.0	4.9	9.1	8	21.4	0.7
B419119	< 10	< 0.2	5.93	1.8	3780	< 0.01	1070	5	65.1	5.1	30	18.1	0.6	3920	74.87	< 2	< 8	> 30.0	4.2	74.1	13	127	0.9
B419120	< 10	< 0.2	2.28	0.4	> 10000	0.01	794	6	34.4	0.5	10	11.7	0.2	610	73.03	< 2	10	> 30.0	0.1	134	25	22.6	< 0.1
B419121	< 10	< 0.2	6.04	1.0	3610	< 0.01	345	7	31.7	0.6	< 10	25.5	0.1	3230	76.16	< 2	15	> 30.0	0.4	33.6	11	186	< 0.1
B419122	< 10	< 0.2	5.85	0.8	4060	0.01	412	4	30.5	0.9	< 10	28.1	0.4	3080	76.21	< 2	< 8	> 30.0	0.6	53.8	11	28.5	< 0.1
B419165	< 10	< 0.2	4.44	0.6	1410	< 0.01	505	< 1	32.0	1.1	< 10	12.7	0.3	2280	76.04	< 2	20	> 30.0	0.9	39.9	9	142	0.1
B419166	< 10	< 0.2	9.78	< 0.4	548	< 0.01	291	1	28.6	0.5	< 10	28.9	0.1	4390	69.69	< 2	30	> 30.0	0.4	21.2	10	44.9	0.1
B419167	< 10	< 0.2	6.10	1.3	> 10000	< 0.01	2420	4	133.1	2.4	100	4.5	0.6	> 5000	72.08	< 2	10	> 30.0	3.2	176	18	629	0.6
B419168	< 10	< 0.2	5.69	1.0	667	< 0.01	402	3	41.2	1.8	10	19.8	0.4	2570	73.60	< 2	25	> 30.0	1.3	21.3	12	61.6	0.3
B419172	< 10	< 0.2	1.36	5.6	74	< 0.01	407	3	71.3	7.1	< 10	11.0	1.7	466	75.59	< 2	15	> 30.0	4.3	11.3	13	41.0	0.7
B419190	< 10	< 0.2	< 0.01	0.9	25	< 0.01	65	3	4.2	1.5	20	1.5	0.2	3.0	87.80	< 2	10	> 30.0	0.1	0.6	10	0.7	< 0.1
B419191	< 10	< 0.2	6.45	30.9	212	0.01	1770	5	108.1	45.2	10	39.5	12.5	1450	73.19	< 2	25	> 30.0	15.4	12.2	8	29.0	2.5
B419192	< 10	< 0.2	5.05	12.2	59	0.01	1940	3	64.1	15.5	< 10	30.7	4.0	1020	74.19	< 2	29	> 30.0	6.4	6.9	9	17.8	1.6
B419193	10	< 0.2	1.37	2.3	> 10000	0.01	696	4	39.3	4.9	10	4.4	0.8	1080	70.93	< 2	10	> 30.0	5.1	161	10	204	0.9

Analyte Symbol	Te	Th	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	6	0.1	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419117	12	12.6	0.03	6.3	1.1	3.9	< 5	2.9	99.2	8.4	140
B419118	< 6	6.1	< 0.01	2.3	0.2	17.5	< 5	1.4	20.4	1.5	80
B419119	7	4.0	< 0.01	24.6	< 0.1	3.4	< 5	1.6	19.2	0.3	130
B419120	< 6	0.3	< 0.01	3.7	< 0.1	6.2	< 5	6.3	0.4	0.3	90
B419121	11	1.0	< 0.01	26.5	< 0.1	2.4	< 5	2.1	1.9	0.2	30
B419122	7	0.7	< 0.01	22.2	< 0.1	0.7	< 5	4.5	0.7	0.2	90
B419165	9	2.9	< 0.01	14.2	< 0.1	3.2	< 5	1.4	4.9	0.2	80
B419166	7	0.4	< 0.01	30.0	< 0.1	1.0	< 5	1.5	1.9	< 0.1	30
B419167	11	3.4	< 0.01	31.0	< 0.1	7.0	< 5	7.1	12.5	0.6	160
B419168	< 6	1.7	< 0.01	17.9	< 0.1	2.6	< 5	1.3	6.6	0.3	90
B419172	< 6	5.7	< 0.01	2.7	0.1	5.0	< 5	0.9	24.4	0.7	< 30
B419190	< 6	0.6	0.04	< 0.1	< 0.1	0.3	< 5	< 0.7	0.7	0.3	< 30
B419191	8	31.5	0.01	8.2	1.1	24.9	< 5	1.6	103	7.6	90
B419192	7	10.1	< 0.01	6.1	1.2	7.5	< 5	< 0.7	74.1	9.4	30
B419193	< 6	2.0	< 0.01	6.9	< 0.1	1.2	< 5	< 0.7	21.6	0.5	60

Analyte Symbol	Li	Rb	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3	Ga	Gd	Ge	Ho
Unit Symbol	%	%	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Lower Limit	0.001	0.001	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2
Method Code	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
PTM-1a Meas				2120								> 5000			> 10000								
PTM-1a Cert				2200								20500.00			249600.00								
NIST 696 Meas			54.70						< 0.01				330						8.40				
NIST 696 Cert			54.5						0.018				321.0						8.70				
DTS-2b Meas			0.42			12			0.02			137	> 10000			< 2							1.1
DTS-2b Cert			0.450			16.0			0.120			120	15500			3.00							0.700
Oreas 74a (Fusion) Meas			2.15	52								554	1780			1190							
Oreas 74a (Fusion) Cert			2.21	50								581				1240.000							
NCS DC86315 Meas			14.91						0.52										0.59				
NCS DC86315 Cert			14.5						0.71										0.68				
NCS DC86314 Meas	1.74	1.18	24.56						0.02						3090				0.26				
NCS DC86314 Cert	1.81	1.14	24.5						0.063						2830				0.30				
CZN-4 Meas				365						2700		92.8				4030							
CZN-4 Cert				356.0000						2604.0000		93.5				4030.000							
Lithium Tetraborate FX-LT 100 lot#220610 B Meas	8.12				> 10000																		
Lithium Tetraborate FX-LT	8				255700																		

Meas																							
OREAS 124 (Peroxide Fusion) Cert					1020	1.83				47.6	51.0			2.82	1.60	1.15		10.5	3.47		0.580		
AMIS 0346 (Peroxide Fusion) Meas																							
AMIS 0346 (Peroxide Fusion) Cert																							
NCS DC73520 Meas			5.25						17.91														
NCS DC73520 Cert			5.20						18.13														
OREAS 148 (Peroxide Fusion) Meas																							
OREAS 148 (Peroxide Fusion) Cert																							
B419172 Orig			14.69	< 5	< 10	10	4	6	0.29	< 2	13.1	0.8	70	30.6	5	3.4	0.9	< 0.1	0.54	48.7	3.9	5.1	0.4
B419172 Dup			14.67	< 5	< 10	7	5	6	0.29	< 2	13.8	0.4	70	31.0	6	3.5	0.6	< 0.1	0.54	45.1	5.4	5.6	0.3
B419193 Orig	1.99	0.108	18.85	< 5	50	9	1000	< 2	0.20	< 2	6.1	0.4	70	1030	19	2.7	0.4	< 0.1	0.73	76.1	4.9	18.1	< 0.2
B419193 Split PREP DUP	2.10	0.114	19.24	< 5	40	10	1020	< 2	0.25	< 2	6.9	0.2	70	1050	19	3.2	0.5	< 0.1	0.73	79.2	4.5	17.7	0.3
Method Blank			< 0.01						< 0.01										< 0.01				
Method Blank			< 0.01	< 5	10	3	< 3	< 2	< 0.01	< 2	< 0.8	0.9	50	0.4	3	< 0.3	< 0.1	< 0.1	< 0.01	< 0.2	< 0.1	< 0.7	< 0.2
Method Blank			< 0.01	< 5	< 10	< 3	< 3	< 2	< 0.01	< 2	< 0.8	1.4	50	< 0.1	5	< 0.3	< 0.1	< 0.1	< 0.01	< 0.2	< 0.1	< 0.7	< 0.2
Method Blank			< 0.01	< 5	< 10	< 3	< 3	< 2	< 0.01	< 2	< 0.8	0.8	60	0.4	< 2	< 0.3	< 0.1	< 0.1	< 0.01	< 0.2	< 0.1	< 0.7	< 0.2

Analyte Symbol	Hf	In	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb
Unit Symbol	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
Lower Limit	10	0.2	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1
Method Code	FUSMSNa2O 2	FUSMSNa2O 2	FUS- Na2O2	FUSMSNa2O 2	FUSMSNa2O 2	FUS- Na2O2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS- Na2O2	FUSMSNa2O 2	FUSMSNa2O 2	FUS- Na2O2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2
PTM-1a Meas											> 10000												
PTM-1a Cert											474400.00												
NIST 696 Meas			< 0.01			< 0.01									3.70								
NIST 696 Cert			0.0090 3			0.012 3									3.79								
DTS-2b Meas						52.13	816				3980	7.2		1.3	39.70	< 2			18.6				
DTS-2b Cert						49.4	830				3780	4.00		2.00	39.4	0.600			18.4				
Oreas 74a (Fusion) Meas						27.01					> 10000				31.13				14.6				
Oreas 74a (Fusion) Cert						27.9					32400.00				32.4				15.1 4				
NCS DC86315 Meas			4.18			0.07									70.51								
NCS DC86315 Cert			4.11			0.093									72.3 4								
NCS DC86314 Meas			7.90		> 10000	< 0.01								> 5000	54.76					151			
NCS DC86314 Cert			7.75		18100.00	0.027								11400	53.9 2					152			
CZN-4 Meas												1840						78	0.27				
CZN-4 Cert												1861.0 000						86.7	0.29 5				
Lithium Tetraborate FX-LT 100 lot#220610 B Meas					> 10000																		
Lithium Tetraborate FX-LT					82100																		

OREAS 124 (Peroxide Fusion) Cert	6.22			21.6			700			20.8			5.39	86.0				38.2	4.21				0.480
AMIS 0346 (Peroxide Fusion) Meas																							
AMIS 0346 (Peroxide Fusion) Cert																							
NCS DC73520 Meas			0.70			4.22									58.17								
NCS DC73520 Cert			0.66			4.37									57.47								
OREAS 148 (Peroxide Fusion) Meas																		> 30.0					
OREAS 148 (Peroxide Fusion) Cert																		36.0					
B419172 Orig	< 10	< 0.2	1.36	6.1	76	< 0.01	415	4	72.4	6.5	10	10.1	1.6	480	75.50	< 2	20	> 30.0	4.4	10.7	14	41.0	0.7
B419172 Dup	10	< 0.2	1.37	5.2	72	< 0.01	398	3	70.3	7.8	< 10	12.0	1.8	452	75.69	< 2	10	> 30.0	4.2	11.8	12	41.0	0.7
B419193 Orig	10	< 0.2	1.37	2.3	> 10000	0.01	696	4	39.3	4.9	10	4.4	0.8	1080	70.93	< 2	10	> 30.0	5.1	161	10	204	0.9
B419193 Split PREP DUP	20	< 0.2	1.44	2.6	> 10000	0.02	747	3	38.4	4.3	< 10	5.4	1.3	1140	73.08	< 2	< 8	> 30.0	3.9	153	11	175	0.9
Method Blank			0.03			< 0.01									< 0.01			< 0.01					
Method Blank	10	< 0.2	0.03	< 0.4	< 3	< 0.01	< 3	2	4.4	< 0.4	30	4.1	< 0.1	2.0	< 0.01	< 2	< 8	< 0.01	< 0.1	< 0.5	11	1.5	< 0.1
Method Blank	< 10	< 0.2	< 0.01	< 0.4	7	< 0.01	< 3	3	4.0	< 0.4	< 10	4.0	< 0.1	1.8	< 0.01	< 2	20	< 0.01	< 0.1	1.0	13	1.1	< 0.1
Method Blank	< 10	< 0.2	< 0.01	< 0.4	< 3	0.02	4	< 1	3.4	< 0.4	10	2.1	< 0.1	2.5	0.02	< 2	< 8	< 0.01	< 0.1	0.5	12	0.6	< 0.1

Analyte Symbol	Te	Th	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
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Unit Symbol	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	6	0.1	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
PTM-1a Meas											
PTM-1a Cert											
NIST 696 Meas			2.58				402				
NIST 696 Cert			2.64				403.00 00				
DTS-2b Meas							18				60
DTS-2b Cert							22.0				45.0
Oreas 74a (Fusion) Meas											
Oreas 74a (Fusion) Cert											
NCS DC86315 Meas			0.04								
NCS DC86315 Cert			0.039								
NCS DC86314 Meas			0.03					87.1			
NCS DC86314 Cert			0.029					79.0			
CZN-4 Meas											> 10000
CZN-4 Cert											550700.00
Lithium Tetraborate FX-LT 100 lot#220610B Meas											
Lithium Tetraborate FX-LT 100 lot#220610B Cert											
OREAS 922 (Peroxide Fusion) Meas		19.5		0.9	0.6	3.8	104		32.2	3.1	320
OREAS 922 (Peroxide Fusion) Cert		17.7		0.9	0.510	3.6	92.0		31.1	3.17	280

CCU-1e Meas	75			2.5							> 10000
CCU-1e Cert	61.8			2.69							30200
OREAS 680 (Peroxide Fusion) Meas		6.9			1.6	228		18.5	1.8		2390
OREAS 680 (Peroxide Fusion) Cert		6.73			1.55	224		16.2	1.52		2320
OREAS 139 (Peroxide Fusion) Meas		8.1		34.7	11.6			14.2			> 10000
OREAS 139 (Peroxide Fusion) Cert		7.54		35.4	12.2			17.1			133600 .00
OREAS 624 (Peroxide Fusion) Meas		4.6		1.0	1.4	34	9.4	19.6	2.5		> 10000
OREAS 624 (Peroxide Fusion) Cert		4.12		0.940	1.34	43.3	4.58	17.3	1.94		24100
OREAS 124		5.7			0.3	1790	25	13.1	2.0		
Analyte Symbol	Te	Th	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	6	0.1	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
(Peroxide Fusion) Meas											
OREAS 124 (Peroxide Fusion) Cert		5.74			0.220	1790	23.3		14.2	1.63	
AMIS 0346 (Peroxide Fusion) Meas							2960				
AMIS 0346 (Peroxide Fusion) Cert							2700				
NCS DC73520 Meas											
NCS DC73520 Cert											

OREAS 148 (Peroxide Fusion) Meas												
OREAS 148 (Peroxide Fusion) Cert												
B419172 Orig	8	5.7	< 0.01	2.5	0.1	5.0	< 5	1.1	28.0	0.7	< 30	
B419172 Dup	< 6	5.7	< 0.01	2.9	0.1	4.9	< 5	0.7	20.7	0.8	< 30	
B419193 Orig	< 6	2.0	< 0.01	6.9	< 0.1	1.2	< 5	< 0.7	21.6	0.5	60	
B419193 Split PREP DUP	< 6	2.4	< 0.01	6.1	< 0.1	1.0	< 5	0.9	21.4	0.1	60	
Method Blank			< 0.01									
Method Blank	8	< 0.1	< 0.01	< 0.1	< 0.1	0.1	< 5	2.9	< 0.1	0.1	< 30	
Method Blank	< 6	< 0.1	< 0.01	< 0.1	< 0.1	0.1	< 5	0.9	0.2	< 0.1	< 30	
Method Blank	8	< 0.1	< 0.01	< 0.1	< 0.1	0.2	< 5	< 0.7	0.1	0.2	< 30	



Report No.: A21-18021
 Report Date: 21-Oct-21
 Date Submitted: 27-Sep-21
 Your Reference: Campus Creek Pegmatites

Grid Metals Corp.
 304-3335 Yonge St
 Toronto Ontario M4N 2M1
 Canada

ATTN: Dave Peck

CERTIFICATE OF ANALYSIS

69 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
UT-7-Grid	QOP Sodium Peroxide (Sodium Peroxide Fusion ICPOES + ICPMS)	2021-10-13 16:40:57

REPORT A21-18021

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Notes:



CERTIFIED BY:

Emmanuel Esemé, 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
 LabID: 266 E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3 (T)	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419110	9.75	44	30	1990	34	13	2.13	< 2	1190	8.2	130	243	317	9.9	3.3	10.9	4.64	26.6	22.4	6.1	1.5	10	2.7
B419111	14.76	< 5	40	29	< 3	41	0.72	< 2	47.1	0.6	70	6.8	13	9.6	3.6	< 0.1	0.75	40.9	10.3	2.9	1.4	< 10	< 0.2
B419112	12.91	< 5	50	28	3	45	0.62	< 2	10.7	0.3	80	19.2	17	0.9	0.2	< 0.1	0.59	55.6	2.0	2.3	< 0.2	< 10	0.3
B419113	15.27	< 5	50	6	< 3	19	0.72	< 2	53.3	2.2	70	14.5	7	6.6	1.9	< 0.1	0.83	34.0	11.7	3.3	0.7	< 10	< 0.2
B419114	13.62	< 5	20	14	< 3	44	0.60	< 2	10.9	2.2	80	17.4	5	1.2	0.2	< 0.1	0.80	49.7	1.7	2.4	< 0.2	< 10	< 0.2
B419115	16.26	< 5	30	526	< 3	< 2	3.27	< 2	15.9	2.6	70	19.6	33	0.8	0.4	0.6	1.80	20.2	1.4	1.3	< 0.2	< 10	< 0.2
B419116	16.22	< 5	30	711	< 3	< 2	3.13	< 2	22.8	3.1	60	7.0	25	0.9	0.6	0.8	1.68	19.9	1.2	< 0.7	< 0.2	< 10	< 0.2
B419123	14.51	5	40	27	4	30	0.10	< 2	4.1	2.7	150	184	41	0.6	0.2	< 0.1	0.71	62.9	1.0	3.1	< 0.2	< 10	< 0.2
B419124	14.88	< 5	20	5	< 3	242	0.26	< 2	13.8	0.7	80	45.2	7	2.5	0.9	< 0.1	0.59	29.9	2.7	2.4	0.5	< 10	< 0.2
B419125	14.48	< 5	< 10	4	< 3	22	0.14	< 2	17.4	1.9	60	20.4	11	3.9	2.2	< 0.1	0.60	27.1	2.5	1.9	0.5	< 10	< 0.2
B419126	10.09	< 5	< 10	< 3	< 3	6	0.05	< 2	13.7	0.7	70	10.9	8	3.4	1.9	< 0.1	0.81	24.4	3.8	2.3	0.5	< 10	< 0.2
B419127	12.90	< 5	10	5	3	19	0.52	< 2	25.3	1.1	60	7.7	< 2	5.6	3.1	< 0.1	1.07	33.7	5.3	3.3	1.0	< 10	< 0.2
B419128	13.50	< 5	10	7	< 3	19	0.79	< 2	29.2	1.4	60	8.0	6	4.8	3.6	< 0.1	1.02	32.6	6.4	2.2	1.2	< 10	0.2
B419129	13.48	< 5	< 10	10	< 3	72	0.85	< 2	20.2	0.8	80	12.0	7	4.8	1.9	< 0.1	0.90	33.5	3.8	2.3	0.7	< 10	< 0.2
B419130	0.28	< 5	10	24	< 3	< 2	< 0.01	< 2	2.1	1.3	60	0.3	13	< 0.3	< 0.1	< 0.1	0.49	0.4	< 0.1	0.9	< 0.2	< 10	< 0.2
B419131	14.27	< 5	< 10	21	< 3	38	0.39	< 2	13.9	0.6	70	11.7	19	3.1	1.7	< 0.1	0.89	23.2	2.4	2.3	0.5	< 10	< 0.2
B419132	14.14	< 5	< 10	< 3	< 3	135	0.37	< 2	14.6	0.3	60	10.0	20	2.5	1.2	< 0.1	0.73	26.2	2.4	2.4	0.3	< 10	< 0.2
B419133	13.74	< 5	< 10	21	< 3	46	0.18	< 2	11.3	0.6	70	14.4	20	1.0	0.5	< 0.1	0.72	31.0	1.5	2.2	< 0.2	< 10	< 0.2
B419134	14.96	< 5	< 10	10	< 3	31	0.20	< 2	7.4	< 0.2	60	15.5	15	0.9	0.4	< 0.1	0.82	28.4	1.1	2.8	< 0.2	< 10	< 0.2
B419135	13.40	< 5	10	392	< 3	35	0.44	< 2	31.5	0.6	60	12.2	13	1.6	0.5	0.2	1.13	24.5	3.3	2.0	0.2	< 10	< 0.2
B419136	14.19	< 5	< 10	34	< 3	4	0.43	< 2	25.4	0.9	80	8.9	17	7.7	4.0	< 0.1	0.96	24.1	4.4	2.8	1.2	< 10	< 0.2
B419137	14.20	< 5	< 10	26	< 3	10	0.38	< 2	16.7	1.0	120	13.0	20	4.1	2.0	< 0.1	1.05	26.4	3.6	2.3	0.4	< 10	< 0.2
B419138	13.81	< 5	20	41	3	5	0.39	< 2	15.5	0.9	60	12.4	36	4.4	2.5	< 0.1	0.91	32.6	4.8	2.4	0.8	< 10	< 0.2

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B41913 9	13.45	< 5	< 10	613	3	4	0.82	< 2	40.6	1.3	60	10.4	22	2.3	1.2	0.3	1.37	26.3	3.0	1.7	0.4	< 10	< 0.2
B41914 0	9.71	47	40	2000	33	13	1.66	< 2	1200	6.6	130	251	303	10.1	2.8	11.0	4.65	16.2	25.0	5.6	1.2	< 10	3.0
B41914 1	14.22	< 5	< 10	1200	4	3	1.14	< 2	63.7	1.5	80	13.5	27	1.9	0.6	0.9	1.64	20.7	2.0	1.1	< 0.2	< 10	< 0.2
B41914 2	15.16	< 5	20	20	4	29	0.40	< 2	35.7	0.5	60	16.2	27	7.1	3.6	< 0.1	0.99	41.5	6.5	2.7	1.2	< 10	< 0.2
B41914 3	15.73	< 5	< 10	25	< 3	158	0.27	< 2	26.9	0.5	60	18.3	29	4.6	2.4	< 0.1	0.82	29.2	5.2	2.2	0.9	< 10	< 0.2
B41914 4	13.90	< 5	< 10	< 3	9	113	0.27	< 2	25.1	1.4	70	17.8	25	10.2	2.8	< 0.1	1.24	42.7	8.6	3.7	1.3	< 10	< 0.2
B41914 5	14.05	< 5	< 10	7	< 3	7	0.19	< 2	8.4	1.0	60	46.9	9	1.9	0.5	< 0.1	0.84	48.4	1.5	2.9	0.3	< 10	< 0.2
B41914 6	14.17	< 5	< 10	< 3	< 3	< 2	0.16	< 2	14.3	1.5	70	23.6	4	1.4	0.5	< 0.1	0.77	34.4	1.8	2.6	0.3	< 10	< 0.2
B41914 7	15.19	< 5	< 10	16	< 3	< 2	0.29	< 2	10.9	0.8	80	24.3	45	0.8	0.3	< 0.1	1.38	36.7	1.4	2.1	< 0.2	< 10	< 0.2
B41914 8	14.81	< 5	< 10	12	< 3	46	0.22	< 2	13.8	1.3	100	38.2	196	1.0	0.3	< 0.1	4.88	39.2	1.9	2.9	< 0.2	< 10	< 0.2
B41914 9	14.41	< 5	< 10	22	< 3	10	0.39	< 2	23.3	0.8	70	10.4	32	4.0	1.8	< 0.1	0.86	35.9	3.9	2.7	0.5	< 10	< 0.2
B41915 0	16.55	7	30	31	123	3	0.20	< 2	0.9	2.3	130	68.4	43	< 0.3	< 0.1	< 0.1	1.24	17.8	0.2	6.2	< 0.2	< 10	< 0.2
B41915 1	12.34	< 5	< 10	< 3	< 3	3	0.18	< 2	19.9	0.5	80	8.4	13	4.1	1.7	< 0.1	0.88	37.0	5.2	2.7	0.6	< 10	< 0.2
B41915 2	13.71	< 5	< 10	< 3	< 3	11	0.37	< 2	13.3	0.9	60	9.9	8	3.4	1.7	< 0.1	1.16	37.5	3.2	2.6	0.5	< 10	< 0.2
B41915 3	13.97	< 5	< 10	< 3	< 3	40	0.43	< 2	17.8	0.5	80	9.2	7	4.0	1.6	< 0.1	1.04	27.5	3.2	2.4	0.8	< 10	< 0.2
B41915 4	11.64	< 5	< 10	4	< 3	< 2	0.31	< 2	12.8	0.2	80	12.0	9	4.8	2.2	< 0.1	1.39	29.2	3.2	3.0	0.7	< 10	< 0.2
B41915 5	13.71	< 5	< 10	8	< 3	6	0.41	< 2	21.8	< 0.2	60	8.0	< 2	4.1	2.6	< 0.1	0.90	38.6	4.6	1.9	0.9	< 10	< 0.2
B41915 6	14.75	< 5	< 10	< 3	< 3	30	0.32	< 2	10.9	1.5	80	12.4	14	3.3	1.5	< 0.1	0.99	28.3	2.4	2.8	0.6	10	< 0.2
B41915 7	14.39	< 5	< 10	5	< 3	8	0.21	< 2	15.6	0.5	90	28.1	41	1.5	0.5	< 0.1	1.92	36.3	1.4	2.2	< 0.2	< 10	0.3
B41915 8	16.04	< 5	< 10	7	< 3	11	0.21	< 2	29.2	0.3	70	14.9	20	2.9	1.4	< 0.1	0.94	31.8	4.1	2.8	0.5	< 10	< 0.2
B41915 9	3.60	< 5	< 10	7	< 3	2	2.01	< 2	8.3	3.8	110	11.3	104	1.5	1.1	0.1	14.85	9.0	2.2	2.3	0.2	< 10	< 0.2
B41916 0	0.25	5	< 10	4	< 3	< 2	0.02	< 2	2.0	0.5	70	0.3	14	< 0.3	0.2	< 0.1	0.49	0.5	0.1	1.1	< 0.2	< 10	< 0.2
B41916 1	9.74	6	< 10	< 3	< 3	4	0.15	< 2	25.4	0.5	50	3.2	7	14.5	4.8	< 0.1	1.60	21.2	10.4	2.9	2.3	< 10	< 0.2
B41916 2	15.58	7	< 10	< 3	4	10	0.41	< 2	19.3	0.8	110	9.4	15	1.5	0.6	< 0.1	1.03	32.9	2.8	2.2	0.3	< 10	< 0.2
B41916 3	11.92	< 5	< 10	< 3	< 3	10	0.10	< 2	4.6	0.9	90	14.4	11	0.6	< 0.1	< 0.1	0.67	32.5	0.7	2.3	< 0.2	< 10	< 0.2
B41916 4	8.48	9	< 10	< 3	< 3	21	0.26	< 2	17.0	1.3	90	6.4	20	1.6	0.8	< 0.1	0.85	26.6	1.8	1.9	0.2	< 10	0.3

Analyte Symbol	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3 (T)	Ga	Gd	Ge	Ho	Hf	In
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Results

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Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419169	15.46	7	20	13	31	47	0.11	< 2	16.2	0.6	60	46.1	20	3.2	0.7	< 0.1	0.68	46.3	5.8	4.4	0.4	< 10	< 0.2
B419170	9.53	49	30	1890	35	13	1.67	< 2	1160	6.2	130	254	307	10.8	3.1	11.3	4.73	24.5	21.7	6.6	1.5	< 10	2.7
B419171	13.94	< 5	< 10	8	< 3	5	0.05	< 2	3.4	0.5	90	16.1	6	0.8	0.1	< 0.1	0.55	29.7	1.0	3.2	< 0.2	< 10	< 0.2
B419173	14.94	< 5	< 10	4	< 3	< 2	0.05	< 2	5.4	1.5	60	48.9	13	< 0.3	0.3	< 0.1	0.72	30.8	< 0.1	2.4	< 0.2	< 10	< 0.2
B419174	15.43	< 5	< 10	< 3	5	26	0.31	< 2	25.4	0.7	80	10.4	< 2	4.7	1.0	< 0.1	1.00	55.1	5.4	2.4	0.8	< 10	0.3
B419175	18.85	5	< 10	< 3	7	3	0.56	< 2	15.2	0.3	70	43.8	5	2.3	0.2	< 0.1	1.46	53.1	2.8	3.5	0.2	< 10	0.3
B419176	16.48	8	< 10	< 3	5	2	0.15	< 2	17.8	0.4	60	5.3	4	4.0	1.1	< 0.1	0.47	45.8	4.0	3.8	0.3	< 10	< 0.2
B419177	13.03	7	10	< 3	4	5	0.08	< 2	77.9	0.6	70	99.1	< 2	30.9	14.8	< 0.1	1.61	37.4	20.5	4.2	5.7	10	< 0.2
B419178	13.66	< 5	< 10	< 3	< 3	5	0.22	< 2	28.8	0.6	80	7.4	< 2	2.9	1.3	< 0.1	0.89	48.5	4.4	2.5	0.5	< 10	< 0.2
B419179	12.06	10	< 10	14	< 3	< 2	0.12	< 2	7.3	1.3	90	11.7	14	1.1	0.6	< 0.1	0.46	19.5	1.4	1.9	< 0.2	< 10	< 0.2
B419180	16.94	12	20	43	125	2	0.19	< 2	1.0	1.4	70	67.5	33	< 0.3	< 0.1	< 0.1	1.22	17.1	0.1	6.5	< 0.2	< 10	< 0.2
B419181	13.33	7	660	14	< 3	13	0.15	< 2	13.3	0.6	70	10.6	19	5.9	2.5	< 0.1	0.60	33.0	6.0	1.6	0.7	< 10	< 0.2
B419182	8.57	< 5	< 10	< 3	< 3	4	0.20	< 2	8.0	0.5	90	4.1	4	1.1	0.3	< 0.1	0.68	36.5	1.1	2.0	0.2	< 10	< 0.2
B419183	16.83	7	< 10	4	< 3	5	0.22	< 2	8.8	1.0	70	9.8	8	0.8	0.1	< 0.1	0.40	23.4	1.1	2.3	< 0.2	< 10	< 0.2
B419184	13.27	7	< 10	6	3	< 2	0.02	< 2	6.4	5.5	70	39.9	76	0.9	0.2	< 0.1	0.72	40.9	0.9	2.5	< 0.2	< 10	< 0.2
B419185	15.35	< 5	< 10	8	< 3	< 2	0.35	< 2	20.1	1.1	60	8.9	6	5.0	1.2	< 0.1	0.63	31.9	3.4	2.3	0.5	< 10	< 0.2
B419186	11.45	< 5	< 10	15	< 3	3	0.15	< 2	11.9	0.6	80	10.4	4	1.0	0.1	< 0.1	0.44	27.7	2.1	2.9	< 0.2	< 10	< 0.2
B419187	13.48	< 5	< 10	< 3	< 3	3	0.14	< 2	8.3	0.9	80	18.7	< 2	1.4	0.7	< 0.1	0.61	30.5	2.2	2.5	< 0.2	< 10	< 0.2
B419188	13.27	< 5	< 10	< 3	< 3	6	0.22	< 2	16.7	0.8	80	6.6	7	3.4	1.8	< 0.1	0.70	36.1	3.5	3.0	0.6	< 10	< 0.2
B419189	8.08	< 5	20	17	< 3	13	0.09	< 2	10.5	0.5	80	4.9	21	3.1	1.0	< 0.1	0.79	24.8	3.1	2.1	0.4	10	< 0.2

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Analyte Symbol	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2
B419110	2.16	731	2150	0.98	369	10	1154.9	416	60	41.5	128	1220	73.04	10	54	> 30.0	43.9	759	278	18.7	3.1	7	96.9
B419111	1.98	16.9	102	0.13	1540	4	103.3	24.8	20	23.1	6.5	439	65.90	< 2	32	> 30.0	9.1	4.1	28	11.6	1.5	10	9.0
B419112	3.49	4.4	281	0.13	366	5	80.6	6.3	20	24.4	1.4	1110	65.63	< 2	23	> 30.0	1.9	13.1	32	7.8	0.3	11	1.9
B419113	3.81	18.0	110	0.13	1190	< 1	75.8	33.8	40	28.2	7.5	742	70.51	< 2	< 8	> 30.0	12.4	4.6	30	10.8	1.3	24	9.5
B419114	4.87	4.3	294	0.15	366	3	82.6	7.1	30	27.1	1.3	1040	73.36	< 2	< 8	> 30.0	1.8	13.6	33	9.7	0.3	< 6	2.0
B419115	1.35	8.0	567	0.64	232	6	9.6	7.0	< 10	12.0	1.9	230	69.07	< 2	28	> 30.0	1.8	3.4	386	0.9	0.2	6	1.6
B419116	1.39	11.5	530	0.57	182	4	6.2	9.6	20	16.4	2.4	157	67.55	< 2	28	> 30.0	1.6	2.5	410	0.5	0.2	8	3.0
B419123	7.22	2.0	554	0.02	183	9	44.1	2.7	50	35.9	0.6	2080	64.24	< 2	33	> 30.0	0.8	20.6	16	5.7	< 0.1	10	1.2
B419124	7.55	6.7	144	0.02	390	4	27.0	7.2	40	48.2	1.7	1350	63.28	< 2	< 8	29.6	1.4	3.8	15	5.1	0.4	12	5.0
B419125	6.57	7.3	112	0.01	641	2	42.5	9.1	20	42.6	2.3	1180	62.82	< 2	< 8	29.4	3.9	4.5	12	7.0	0.6	14	7.3
B419126	4.07	6.1	104	0.01	848	2	57.4	6.7	20	35.7	1.7	774	59.10	< 2	20	27.6	2.8	4.5	10	9.3	0.6	22	5.0
B419127	1.56	11.1	162	0.05	801	2	93.6	13.3	20	27.9	3.3	374	69.84	< 2	< 8	> 30.0	3.1	4.9	17	13.1	0.9	17	11.2
B419128	1.82	13.3	150	0.13	767	< 1	82.2	12.0	10	46.4	4.0	393	66.71	< 2	< 8	> 30.0	5.0	4.2	22	12.2	0.9	7	12.8
B419129	3.67	9.8	107	0.13	517	3	61.0	7.1	30	50.8	3.1	704	66.43	< 2	20	> 30.0	2.1	3.5	30	9.9	0.7	7	7.9
B419130	< 0.01	0.9	24	< 0.01	73	2	3.5	0.8	30	15.7	0.2	1.5	69.99	< 2	22	> 30.0	< 0.1	0.7	19	0.4	< 0.1	< 6	0.7
B419131	4.18	6.5	105	0.03	397	4	48.6	5.4	30	42.0	1.6	763	67.77	< 2	< 8	> 30.0	1.9	3.1	16	7.3	0.5	< 6	5.1
B419132	3.40	7.6	83	0.01	297	3	39.7	5.6	20	38.4	1.5	602	67.77	< 2	10	> 30.0	1.3	3.1	12	5.6	0.4	< 6	4.8
B419133	5.79	5.5	104	0.02	464	12	32.6	4.5	20	36.0	1.1	1070	67.64	< 2	13	> 30.0	1.4	5.3	12	5.4	0.2	< 6	2.3
B419134	7.38	4.0	109	0.02	255	44	36.8	3.0	10	47.1	0.7	1240	71.30	< 2	13	> 30.0	1.2	6.3	12	5.9	0.2	< 6	1.8
B419135	4.33	15.2	150	0.07	430	34	42.6	11.1	10	28.5	3.5	752	72.82	< 2	< 8	> 30.0	3.1	3.4	88	8.4	0.4	10	8.0
B419136	5.15	9.8	62	0.03	900	5	66.2	12.9	40	41.3	3.6	835	71.36	< 2	< 8	> 30.0	5.8	3.6	24	15.0	1.2	14	12.2
B419137	4.86	7.2	73	0.03	507	5	57.5	8.1	50	38.3	2.1	1010	71.54	< 2	< 8	> 30.0	2.7	4.9	16	9.9	0.6	< 6	7.2
B419138	4.10	6.3	80	0.03	471	7	57.7	7.5	20	34.0	2.4	827	70.34	< 2	35	> 30.0	3.4	5.4	19	11.6	0.9	< 6	8.0

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B419139	3.47	20.7	171	0.15	519	536	33.1	15.3	20	25.4	4.2	585	71.08	< 2	< 8	> 30.0	3.2	3.7	145	6.8	0.4	10	10.7
B419140	2.10	751	2050	0.86	403	11	1035.1	409	40	34.8	130	1250	73.54	12	30	> 30.0	49.2	761	288	16.9	3.3	7	87.2
B419141	4.73	35.7	253	0.25	447	233	25.2	20.5	20	33.0	6.7	544	70.55	< 2	20	> 30.0	3.5	2.9	265	4.8	0.3	< 6	17.3
B419142	3.32	14.6	174	0.02	846	5	78.7	19.0	10	38.0	4.5	706	70.60	< 2	15	> 30.0	5.8	5.7	16	13.2	1.1	11	12.5
B419143	6.01	11.0	85	0.02	695	1580	77.2	14.5	20	37.6	3.4	1030	69.02	< 2	< 8	> 30.0	3.7	5.4	12	10.8	0.9	12	9.3
B419144	2.62	9.6	154	0.03	2140	7	85.5	13.1	30	23.2	3.7	601	71.16	< 2	< 8	> 30.0	5.1	10.5	15	25.4	2.0	< 6	7.5
B419145	4.85	3.2	186	0.02	331	2	48.2	4.1	20	27.4	0.9	1320	70.12	< 2	14	> 30.0	1.2	16.4	15	15.4	0.4	< 6	2.4
B419146	6.76	6.7	185	0.02	326	3	41.9	7.8	30	41.9	1.8	1280	71.65	< 2	14	> 30.0	1.1	8.1	14	8.7	0.4	22	3.5
B419147	6.87	5.4	250	0.03	334	10	45.5	3.4	40	47.6	1.5	1340	70.38	< 2	20	> 30.0	3.6	8.3	20	7.0	0.2	20	2.9
B419148	6.08	6.6	485	0.05	602	25	93.5	6.4	30	37.4	1.7	1240	66.68	< 2	< 8	> 30.0	1.2	12.0	15	11.3	0.3	15	3.9
B419149	3.51	15.0	109	0.02	552	6	58.1	11.4	30	32.0	2.5	646	71.95	< 2	14	> 30.0	4.0	3.5	15	13.1	0.6	< 6	7.9
B419150	3.13	< 0.4	8970	0.02	776	8	34.1	< 0.4	60	12.1	0.1	642	68.59	< 2	15	> 30.0	0.2	134	38	20.2	< 0.1	< 6	0.3
B419151	4.02	8.5	134	0.01	978	2	53.9	11.7	30	25.1	2.8	794	72.02	< 2	14	> 30.0	3.3	6.5	15	7.1	0.7	< 6	4.8
B419152	2.75	6.3	206	0.03	400	2	94.2	5.5	30	31.2	1.5	571	71.83	< 2	< 8	> 30.0	2.2	8.2	12	16.1	0.5	< 6	5.7
B419153	2.28	9.2	150	0.02	384	3	78.8	7.9	30	29.1	2.0	495	70.04	< 2	< 8	> 30.0	3.2	3.3	15	11.3	0.5	< 6	6.9
B419154	2.77	6.2	192	0.03	722	4	97.8	6.6	20	25.9	2.1	633	74.97	< 2	14	> 30.0	2.1	5.2	18	16.9	0.6	12	6.5
B419155	2.27	9.3	117	0.02	665	2	76.5	11.0	20	25.9	2.5	457	67.23	< 2	27	> 30.0	4.1	4.8	18	14.8	0.7	< 6	7.8
B419156	4.87	5.9	99	0.02	519	12	56.0	5.2	30	38.7	1.0	878	73.23	< 2	34	> 30.0	1.4	2.8	15	9.9	0.5	17	4.5
B419157	6.07	8.2	239	0.03	217	21	69.4	7.8	30	38.8	1.6	1200	70.65	< 2	14	> 30.0	2.0	19.4	12	12.0	0.3	< 6	4.6
B419158	6.74	18.8	73	0.02	850	8	42.6	7.0	40	49.5	2.2	1180	69.35	< 2	14	> 30.0	2.7	3.2	13	7.4	0.5	7	4.2
B419159	0.30	4.5	143	1.90	4980	14	25.2	4.4	30	10.6	1.3	155	73.34	< 2	< 8	> 30.0	1.2	3.5	24	5.7	0.3	< 6	0.7
B419160	< 0.01	1.3	22	< 0.01	64	2	3.9	1.5	30	7.3	0.2	1.1	88.66	< 2	< 8	> 30.0	0.2	0.6	11	0.9	< 0.1	7	0.6
B419161	0.27	9.0	67	0.03	2950	15	51.2	17.0	10	12.3	3.2	98.5	54.17	< 2	41	25.3	6.8	2.4	9	6.0	2.2	< 6	4.9
B419162	3.52	6.8	158	0.02	392	3	81.2	9.2	250	31.7	2.2	634	73.15	< 2	< 8	> 30.0	1.9	4.7	16	11.9	0.2	< 6	4.9
B419163	6.01	2.4	132	0.02	221	11	35.9	2.0	20	32.2	0.4	1070	74.15	< 2	< 8	> 30.0	0.3	6.4	15	4.1	0.1	10	1.2
B419164	1.45	7.2	153	0.02	484	5	139.5	10.2	30	19.7	2.3	356	75.54	< 2	< 8	> 30.0	4.0	7.6	20	18.7	0.4	9	5.3

Analyte Symbol	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
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Results

Activation Laboratories Ltd.

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Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2
B419169	1.48	5.7	280	0.01	502	6	75.2	7.1	10	9.7	2.2	621	72.52	< 2	51	> 30.0	4.6	19.6	10	57.8	1.0	6	4.2
B419170	2.08	696	2170	0.87	403	8	1109.6	419	60	37.8	127	1160	74.18	13	14	> 30.0	46.5	759	277	18.6	2.9	< 6	95.2
B419171	9.31	2.7	27	< 0.01	62	5	35.9	1.1	30	61.3	0.3	1420	69.28	< 2	14	> 30.0	0.2	2.4	23	13.0	0.1	< 6	0.7
B419173	8.24	2.8	107	0.03	161	2	25.0	1.9	20	45.6	0.7	1680	69.48	< 2	< 8	> 30.0	0.6	10.4	15	5.9	< 0.1	< 6	1.1
B419174	1.28	9.8	228	0.02	649	7	131.4	12.3	30	16.0	3.3	418	71.44	< 2	14	> 30.0	4.5	12.2	11	22.7	0.8	7	7.3
B419175	1.35	6.7	481	0.05	640	5	93.8	6.3	20	16.8	2.0	516	68.96	< 2	< 8	> 30.0	2.6	13.3	16	12.7	0.4	< 6	2.7
B419176	0.31	5.9	63	0.03	217	< 1	75.1	9.3	30	15.5	2.6	149	65.57	< 2	14	> 30.0	5.7	10.7	19	40.6	1.1	< 6	5.9
B419177	3.18	29.8	241	0.02	4260	4	199.3	43.1	10	26.8	11.0	788	74.67	< 2	14	> 30.0	15.1	13.1	12	46.2	4.3	7	21.5
B419178	5.14	10.4	171	0.03	161	3	63.5	16.9	30	33.4	3.9	795	75.07	< 2	< 8	> 30.0	5.2	7.1	15	5.5	0.6	< 6	10.5
B419179	6.95	3.0	18	0.01	60	4	16.6	3.9	60	49.8	1.0	1160	76.20	< 2	14	> 30.0	1.6	1.5	18	3.7	0.3	< 6	2.0
B419180	3.15	< 0.4	8850	0.02	747	5	33.7	< 0.4	20	12.1	< 0.1	645	70.51	< 2	34	> 30.0	< 0.1	134	35	19.7	< 0.1	6	0.4
B419181	3.54	4.9	40	0.24	121	4	66.6	10.2	< 10	22.2	2.0	600	72.59	< 2	< 8	> 30.0	3.4	3.6	17	11.8	0.9	8	6.0
B419182	1.61	3.0	106	0.02	218	5	168.0	5.5	20	12.5	1.2	379	86.40	< 2	14	> 30.0	1.0	4.4	13	22.6	0.1	7	2.1
B419183	7.59	4.9	23	< 0.01	125	2	23.9	5.1	40	33.9	1.3	1160	68.71	< 2	< 8	> 30.0	1.7	2.7	13	3.5	0.2	< 6	1.4
B419184	5.62	3.0	133	0.02	177	4	37.9	3.2	150	32.2	0.6	1120	74.84	< 2	14	> 30.0	1.3	7.8	6	5.9	0.2	< 6	0.8
B419185	2.83	7.5	47	0.02	774	2	37.2	10.5	30	18.8	3.2	491	69.90	< 2	14	> 30.0	3.0	3.5	14	4.5	0.7	< 6	3.6
B419186	3.18	4.5	33	0.02	101	3	31.6	7.5	30	19.9	1.9	576	78.39	< 2	21	> 30.0	2.2	2.2	15	4.7	0.1	< 6	2.6
B419187	6.00	3.7	155	0.02	154	4	93.4	3.8	50	30.9	0.9	1010	72.68	< 2	< 8	> 30.0	1.2	5.1	12	15.4	0.3	< 6	2.0
B419188	2.95	7.3	132	0.02	769	5	90.7	7.6	30	21.4	2.4	593	71.58	< 2	< 8	> 30.0	3.3	4.8	16	10.6	0.5	< 6	2.7
B419189	1.30	3.5	111	< 0.01	820	5	85.6	5.7	20	10.9	1.2	315	78.64	< 2	20	> 30.0	2.3	4.2	13	9.0	0.6	< 6	2.0

Analyte Symbol	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419110	0.78	11.2	0.5	16.5	68	6.2	27.9	2.1	160
B419111	< 0.01	2.6	0.6	2.2	21	7.1	75.3	3.8	70
B419112	< 0.01	6.0	< 0.1	1.3	33	7.4	5.1	0.2	80
B419113	< 0.01	4.4	0.2	1.5	< 5	1.7	38.1	2.4	30
B419114	0.02	6.3	< 0.1	1.3	6	2.0	4.9	0.3	70
B419115	0.19	1.8	< 0.1	1.4	46	4.7	6.0	0.5	60
B419116	0.21	1.0	< 0.1	0.9	48	4.6	4.3	0.4	90
B419123	0.02	13.2	< 0.1	1.3	35	5.3	3.7	0.2	90
B419124	< 0.01	8.5	0.2	3.0	< 5	3.9	21.2	1.9	60
B419125	< 0.01	7.5	0.3	4.4	7	2.1	22.0	2.0	40
B419126	< 0.01	5.4	0.3	2.1	7	2.3	25.8	1.7	80
B419127	0.02	2.1	0.7	7.9	< 5	2.1	35.1	4.3	100
B419128	0.02	2.5	0.7	8.6	< 5	1.8	40.8	4.4	100
B419129	0.01	4.2	0.4	7.5	< 5	1.2	19.2	2.9	80
B419130	0.04	< 0.1	< 0.1	0.3	< 5	2.6	1.2	< 0.1	< 30
B419131	0.01	4.8	0.3	3.4	< 5	2.1	16.9	1.8	60
B419132	< 0.01	4.1	0.2	2.5	< 5	1.7	12.4	1.6	60
B419133	< 0.01	7.0	< 0.1	1.1	< 5	2.2	7.2	0.5	40
B419134	0.01	8.4	< 0.1	1.5	< 5	1.8	6.0	0.7	50
B419135	0.04	5.0	0.1	4.0	38	1.4	11.9	1.2	50
B419136	0.02	4.9	0.6	7.3	< 5	3.0	46.5	5.7	70
B419137	0.02	4.8	0.3	3.2	< 5	2.2	22.8	2.3	50
B419138	0.02	5.1	0.4	3.4	38	3.7	30.2	3.3	50
B419139	0.08	3.7	0.2	4.1	13	2.6	18.6	1.4	50
B419140	0.79	11.7	0.4	16.2	94	9.5	33.8	2.0	150
B419141	0.13	3.5	0.1	5.3	18	1.9	11.4	1.0	70
B419142	0.02	4.4	0.7	10.3	40	4.5	49.9	5.1	100
B419143	< 0.01	7.1	0.6	11.4	38	1.8	33.6	3.4	50
B419144	0.01	3.8	0.4	7.5	< 5	1.7	83.6	3.9	210
B419145	0.01	7.8	0.1	4.2	< 5	2.7	14.2	0.9	90
B419146	0.01	8.7	< 0.1	2.1	< 5	3.3	12.7	0.5	70
B419147	0.02	8.4	< 0.1	2.9	< 5	2.7	6.4	0.3	110
B419148	0.03	10.4	< 0.1	4.0	36	3.1	10.5	0.7	320
B419149	0.01	4.0	0.3	7.5	< 5	1.6	24.4	2.1	100

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B419150	< 0.01	3.9	< 0.1	6.3	39	9.9	1.5	0.2	100
B419151	< 0.01	4.9	0.2	2.5	< 5	1.8	28.8	1.6	60
B419152	0.03	3.5	0.3	7.6	< 5	2.7	18.3	2.0	110
B419153	0.02	3.4	0.3	7.4	< 5	2.5	19.5	2.4	80
B419154	0.03	3.8	0.4	21.6	< 5	1.6	31.6	2.8	110
B419155	0.02	3.1	0.4	6.7	< 5	1.7	34.7	2.8	80
B419156	0.01	5.3	0.3	3.4	< 5	1.7	22.6	2.5	90
B419157	0.02	6.9	0.1	1.7	6	1.7	7.6	0.3	110
B419158	< 0.01	7.8	0.3	1.6	< 5	1.9	27.8	1.9	150
B419159	< 0.01	1.3	0.1	3.5	8	2.9	13.8	1.1	290
B419160	0.04	< 0.1	< 0.1	0.2	< 5	2.1	1.1	0.2	30
B419161	< 0.01	0.6	0.7	4.3	< 5	3.0	87.5	3.2	110
B419162	0.02	3.8	< 0.1	2.4	< 5	2.2	8.3	0.4	60
B419163	0.01	7.6	< 0.1	2.0	< 5	3.3	3.1	0.3	30
B419164	0.01	2.0	0.2	9.3	< 5	3.1	12.1	1.4	50

Analyte Symbol	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419169	0.01	3.3	0.1	2.0	35	4.9	32.0	0.4	50
B419170	0.81	10.7	0.4	15.9	65	9.1	32.6	2.0	220
B419171	< 0.01	8.5	< 0.1	1.6	< 5	3.0	4.1	0.2	60
B419173	0.02	11.7	< 0.1	3.3	< 5	1.8	3.3	0.2	40
B419174	0.01	1.9	0.6	3.0	7	6.6	29.6	2.9	60
B419175	0.04	2.9	< 0.1	0.5	< 5	4.8	10.4	0.6	350
B419176	< 0.01	0.7	0.2	3.0	< 5	1.4	26.8	1.7	130
B419177	0.01	4.5	3.0	12.6	< 5	2.2	259	19.2	380
B419178	0.02	4.5	0.2	3.9	< 5	2.7	15.3	1.1	90
B419179	< 0.01	7.6	< 0.1	1.5	6	3.7	6.9	0.7	< 30
B419180	< 0.01	3.7	< 0.1	6.1	42	8.6	0.9	0.2	130
B419181	0.01	3.9	0.3	5.0	44	1.6	30.6	3.1	50
B419182	< 0.01	1.9	< 0.1	0.7	< 5	2.6	7.2	0.4	80
B419183	< 0.01	7.4	< 0.1	1.7	< 5	1.3	4.3	0.5	30
B419184	0.01	6.7	< 0.1	0.6	< 5	1.9	2.7	0.3	40
B419185	< 0.01	3.1	0.2	2.6	< 5	2.8	24.3	1.6	50

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B419186	< 0.01	3.3	< 0.1	1.2	6	1.1	5.3	0.6	30
B419187	< 0.01	6.6	0.1	2.9	< 5	2.0	8.3	0.4	40
B419188	< 0.01	4.0	0.3	0.9	< 5	2.0	26.4	1.6	150
B419189	< 0.01	1.7	0.2	1.2	45	4.5	20.3	1.1	120

Analyte Symbol	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3 (T)	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
PTM-1a Meas		2230								> 5000			> 10000										
PTM-1a Cert		2200								20500.00			249600.00										
PTM-1a Meas		2090								> 5000			> 10000										
PTM-1a Cert		2200								20500.00			249600.00										
NIST 696 Meas	53.86						< 0.01				340						8.44						
NIST 696 Cert	54.5						0.018				321.0						8.70						
DTS-2b Meas	0.42						0.08																
DTS-2b Cert	0.450						0.120																
Oreas 74a (Fusion) Meas	2.33	57								563	1820		1190										
Oreas 74a (Fusion) Cert	2.21	50								581			1240.00										
Oreas 74a (Fusion) Meas		51								571	1840		1200										
Oreas 74a (Fusion) Cert		50								581			1240.00										
OREAS 101a (Fusion) Meas									1410	49.3			426	34.5	18.0	8.2			32.3		6.8		
OREAS 101a (Fusion) Cert									1396	48.8			434	33.3	19.5	8.06			43.4		6.46		
NCS DC8631 5 Meas	14.97						0.49										0.59						



B419178 Dup	13.65	< 5	< 10	< 3	< 3	5	0.23	< 2	31.7	0.4	80	7.7	< 2	2.7	1.0	< 0.1	0.90	48.4	4.3	1.9	0.4	< 10	< 0.2
B419187 Orig	13.56	< 5	< 10	< 3	< 3	2	0.10	< 2	8.7	0.8	70	19.0	< 2	1.4	0.5	< 0.1	0.60	28.3	2.1	2.7	< 0.2	< 10	< 0.2
B419187 Dup	13.39	< 5	< 10	< 3	< 3	3	0.17	< 2	7.9	1.0	90	18.4	< 2	1.3	0.9	< 0.1	0.62	32.7	2.4	2.3	< 0.2	< 10	< 0.2
B419189 Orig	8.08	< 5	20	17	< 3	13	0.09	< 2	10.5	0.5	80	4.9	21	3.1	1.0	< 0.1	0.79	24.8	3.1	2.1	0.4	10	< 0.2

Analyte Symbol	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3 (T)	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419189 Split PREP DUP	8.08	< 5	< 10	14	< 3	15	0.09	< 2	10.6	0.7	80	5.1	20	3.2	1.1	< 0.1	0.84	29.1	3.3	2.1	0.4	< 10	< 0.2
Method Blank	< 0.01	< 5	40	25	< 3	< 2	< 0.01	< 2	< 0.8	0.5	50	0.2	8	< 0.3	< 0.1	< 0.1	< 0.01	0.3	< 0.1	< 0.7	< 0.2	< 10	< 0.2
Method Blank	< 0.01	< 5	20	12	< 3	< 2	< 0.01	< 2	< 0.8	1.2	60	0.6	12	< 0.3	< 0.1	< 0.1	< 0.01	< 0.2	< 0.1	< 0.7	< 0.2	< 10	< 0.2
Method Blank	< 0.01	9	10	18	< 3	< 2	< 0.01	< 2	< 0.8	1.4	60	0.3	19	< 0.3	< 0.1	< 0.1	< 0.01	< 0.2	< 0.1	< 0.7	< 0.2	< 10	< 0.2
Method Blank		8	< 10	< 3	< 3	< 2		< 2	< 0.8	1.5	60	0.4	5	< 0.3	< 0.1	< 0.1		< 0.2	< 0.1	< 0.7	< 0.2	< 10	< 0.2
Method Blank	< 0.01	< 5	20	15	< 3	< 2	< 0.01	< 2	< 0.8	0.4	50	0.3	14	< 0.3	< 0.1	< 0.1	0.03	< 0.2	< 0.1	< 0.7	< 0.2	< 10	< 0.2
Method Blank		< 5	< 10	< 3	< 3	< 2		< 2	< 0.8	0.3	60	0.1	4	< 0.3	< 0.1	< 0.1		0.3	< 0.1	< 0.7	< 0.2	< 10	< 0.2

Analyte Symbol	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
PTM-1a Meas									> 10000														
PTM-1a Cert									474400.00														
PTM-1a Meas									> 10000														
PTM-1a Cert									474400.00														
NIST 696 Meas	< 0.01			< 0.01									3.68										
NIST 696 Cert	0.0090			0.012									3.79										
DTS-2b Meas				51.25									40.09			18.7							
DTS-2b Cert				49.4									39.4			18.4							
Oreas 74a (Fusion) Meas				27.78					> 10000				33.74			15.8							
Oreas 74a (Fusion) Cert				27.9					32400.00				32.4			15.1							
Oreas 74a (Fusion) Meas									> 10000														
Oreas 74a (Fusion) Cert									32400.00														
OREAS 101a (Fusion) Meas		798			924	22		436			142						48.6				6.4		37.0
OREAS 101a (Fusion) Cert		816			964	21.9		403			134						48.8				5.92		36.6
NCS DC8631 5 Meas	3.98			0.07									70.00										
NCS DC8631 5 Cert	4.11			0.093									72.3										

NCS DC8631 4 Meas	8.42			0.02							54.35									
NCS DC8631 4 Cert	7.75			0.027							53.9 2									
CZN-4 Meas								1860					99	0.27						
CZN-4 Cert								1861.0 000					86.7	0.29 5						
CZN-4 Meas								1780					138							
CZN-4 Cert								1861.0 000					86.7							
OREAS 922 (Peroxide Fusion) Meas														27.0						
OREAS 922 (Peroxide Fusion) Cert														30.51						
OREAS 621 (Peroxide Fusion) Meas														28.5						
OREAS 621 (Peroxide Fusion) Cert														28.1						
CCU-1e Meas					115			> 5000		3.19	112									58
CCU-1e Cert					96.0			7030		3.13	104									61.8
OREAS 680 (Peroxide Fusion) Meas														20.3						
OREAS 680 (Peroxide Fusion) Cert														20.6						

Analyte Symbol	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2
OREAS 139 (Peroxide Fusion) Meas		24.6	45		6520	10				> 5000		133		62		16.1			469		0.6		7.7
OREAS 139 (Peroxide Fusion) Cert		23.1	40.4		6570	11.1				22000		145		63.0		16.34			479		0.500		7.54
OREAS 624 (Peroxide Fusion) Meas		16.5	31		687	17	7.4	16.4		> 5000	3.8	38.1		64		20.2			58				4.0
OREAS 624 (Peroxide Fusion) Cert		17.3	10.3		660	17.8	5.78	16.8		6120	4.27	33.0		72.0		20.5			47.6				4.12
OREAS 124 (Peroxide Fusion) Meas																> 30.0							
OREAS 124 (Peroxide Fusion) Cert																38.2							
AMIS 0346 (Peroxide Fusion) Meas																							
AMIS 0346 (Peroxide Fusion) Cert																							

NCS DC7352 0 Meas	0.51			4.09	8390	1570			60	13.6			53.28	< 2				4.7					
NCS DC7352 0 Cert	0.66			4.37	9100	1500			50	10.5			57.47	0.6				4.5					
OREAS 148 (Peroxide Fusion) Meas		486	4470		341	11	1679.7	290			88.8	1360		16	> 30.0	34.8	1180	186		2.2		48.3	
OREAS 148 (Peroxide Fusion) Cert		478	4760		380	10	1680.0	260			82.0	1360		16	36.0	34.3	1160	209		1.6		51.0	
B419116 Orig	1.37	11.6	526	0.64	185	4	5.9	9.3	20	13.0	2.5	155	67.58	< 2	42	> 30.0	1.4	2.4	423	0.5	0.2	6	2.9
B419116 Dup	1.41	11.5	534	0.51	180	4	6.5	9.8	10	19.8	2.4	159	67.51	< 2	14	> 30.0	1.8	2.7	397	0.6	0.2	10	3.0
B419130 Orig	< 0.01	0.9	30	0.13	89	4	3.8	0.8	40	10.5	0.3	1.5	62.82	< 2	19	29.4	< 0.1	0.8	32	0.5	< 0.1	9	0.6
B419130 Dup	< 0.01	1.1	28	< 0.01	76	4	3.2	1.3	20	8.9	0.2	1.4	77.16	< 2	24	> 30.0	< 0.1	0.7	14	0.3	< 0.1	8	0.7
B419130 Orig		0.9	24		82	2	3.8	1.0	40	17.2	0.2	2.2		< 2	39		0.2	1.4	26	1.1	< 0.1	7	0.7
B419130 Dup		0.9	25		64	2	3.3	0.6	40	14.2	0.3	1.9		< 2	20		0.3	6.4	13	0.8	< 0.1	< 6	0.7
B419144 Orig	2.66	9.8	156	0.03	2130	7	86.7	12.1	30	21.5	3.9	589	72.74	< 2	< 8	> 30.0	4.5	10.7	16	25.7	2.0	< 6	7.1
B419144 Dup	2.58	9.3	153	0.02	2150	8	84.2	14.1	30	24.9	3.4	614	69.58	< 2	< 8	> 30.0	5.6	10.4	14	25.1	2.0	7	7.9
B419152 Orig	2.74	5.8	205	0.03	399	1	91.7	5.4	20	30.5	1.3	571	70.68	< 2	< 8	> 30.0	1.9	8.1	11	15.7	0.5	10	5.8
B419152 Dup	2.76	6.8	208	0.03	400	2	96.7	5.5	30	31.9	1.7	572	72.98	< 2	< 8	> 30.0	2.4	8.2	14	16.4	0.5	< 6	5.6
B419169 Orig	1.48	5.7	280	0.01	502	6	75.2	7.1	10	9.7	2.2	621	72.52	< 2	51	> 30.0	4.6	19.6	10	57.8	1.0	6	4.2
B419169 Split PREP DUP	1.42	7.6	295	0.01	500	6	76.5	11.0	30	10.4	3.0	712	73.30	< 2	< 8	> 30.0	5.5	21.8	15	56.2	1.2	< 6	4.9
B419169 Split PREP DUP	1.42	7.6	295	0.01	500	6	76.5	11.0	30	10.4	3.0	712	73.30	< 2	< 8	> 30.0	5.5	21.8	15	56.2	1.2	< 6	4.9
B419178 Orig	5.11	9.8	174	0.02	156	4	64.5	16.9	40	35.2	3.5	795	76.11	< 2	< 8	> 30.0	4.6	8.0	15	5.6	0.6	< 6	10.3
B419178 Dup	5.17	11.0	168	0.03	165	2	62.4	16.8	30	31.6	4.2	795	74.03	< 2	< 8	> 30.0	5.7	6.3	15	5.4	0.6	< 6	10.7
B419187 Orig	6.06	3.5	155	0.02	141	3	91.0	4.0	20	31.7	1.0	1020	75.22	< 2	< 8	> 30.0	0.9	5.0	9	15.6	0.3	10	2.0
B419187 Dup	5.93	3.8	154	0.02	166	4	95.8	3.5	90	30.1	0.8	1010	70.13	< 2	14	> 30.0	1.5	5.2	14	15.2	0.3	< 6	2.1

B419189 Orig	1.30	3.5	111	< 0.01	820	5	85.6	5.7	20	10.9	1.2	315	78.64	< 2	20	> 30.0	2.3	4.2	13	9.0	0.6	< 6	2.0
B419189 Split PREP DUP	1.33	3.6	119	< 0.01	953	7	70.8	5.2	20	9.1	1.3	342	76.31	< 2	34	> 30.0	1.8	3.3	12	8.0	0.6	< 6	2.1

Analyte Symbol	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2
Method Blank	< 0.01	< 0.4	16	< 0.01	6	3	4.8	< 0.4	10	5.3	< 0.1	0.8	< 0.01	< 2	32	< 0.01	< 0.1	< 0.5	29	0.3	< 0.1	8	0.1
Method Blank	0.04	< 0.4	12	< 0.01	14	3	4.6	< 0.4	20	3.8	< 0.1	0.6	< 0.01	< 2	10	< 0.01	< 0.1	< 0.5	11	0.4	< 0.1	< 6	< 0.1
Method Blank	< 0.01	< 0.4	17	0.01	8	4	3.5	< 0.4	20	< 0.8	< 0.1	1.3	< 0.01	< 2	15	< 0.01	< 0.1	< 0.5	12	0.2	< 0.1	9	< 0.1
Method Blank		< 0.4	8		8	4	4.8	< 0.4	30	6.3	< 0.1	2.5		< 2	< 8		< 0.1	< 0.5	9	0.9	< 0.1	9	< 0.1
Method Blank	< 0.01	< 0.4	17	< 0.01	5	3	< 2.4	< 0.4	10	2.9	< 0.1	0.8	< 0.01	< 2	24	< 0.01	< 0.1	1.0	11	< 0.2	< 0.1	< 6	< 0.1
Method Blank		< 0.4	11		5	4	2.9	0.6	20	6.6	0.1	1.4		< 2	< 8		< 0.1	1.1	14	0.7	< 0.1	< 6	< 0.1

Analyte Symbol	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
PTM-1a Meas									
PTM-1a Cert									
PTM-1a Meas									
PTM-1a Cert									
NIST 696 Meas	2.55					370			
NIST 696 Cert	2.64				403.00 00				
DTS-2b Meas									
DTS-2b Cert									
Oreas 74a (Fusion) Meas									
Oreas 74a (Fusion) Cert									
Oreas 74a (Fusion) Meas									
Oreas 74a (Fusion) Cert									
OREAS 101a (Fusion) Meas			3.0	411	72		175	17.3	
OREAS 101a (Fusion) Cert			2.90	422	83		183	17.5	
NCS DC86315 Meas	0.04								
NCS DC86315 Cert	0.039								

NCS DC86314 Meas	0.03								
NCS DC86314 Cert	0.029								
CZN-4 Meas									> 10000
CZN-4 Cert									550700
CZN-4 Meas									.00
CZN-4 Cert									> 10000
CZN-4 Meas									550700 .00
OREAS 922 (Peroxide Fusion) Meas									
OREAS 922 (Peroxide Fusion) Cert									
OREAS 621 (Peroxide Fusion) Meas									
OREAS 621 (Peroxide Fusion) Cert									
CCU-1e Meas		2.7							> 10000
CCU-1e Cert		2.69							30200
OREAS 680 (Peroxide Fusion) Meas									
OREAS 680 (Peroxide Fusion) Cert									
OREAS 139		35.2		11.8			15.0		> 10000

Analyte Symbol	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30

Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
(Peroxide Fusion) Meas									
OREAS 139 (Peroxide Fusion) Cert		35.4		12.2			17.1		133600.00
OREAS 624 (Peroxide Fusion) Meas		1.1		1.4	35	6.7	16.4	1.9	> 10000
OREAS 624 (Peroxide Fusion) Cert		0.940		1.34	43.3	4.58	17.3	1.94	24100
OREAS 124 (Peroxide Fusion) Meas									
OREAS 124 (Peroxide Fusion) Cert									
AMIS 0346 (Peroxide Fusion) Meas					2810				
AMIS 0346 (Peroxide Fusion) Cert					2700				
NCS DC73520 Meas						506			390
NCS DC73520 Cert						518			370
OREAS 148 (Peroxide Fusion) Meas		11.4	0.3	8.5	56	8.6	20.2	1.6	190
OREAS 148 (Peroxide Fusion) Cert		12.3	0.2	8.6	56	6.4	19.4	1.4	160
B419116 Orig	0.22	1.1	< 0.1	0.9	49	4.8	4.8	0.6	100

B419116 Dup	0.21	1.0	< 0.1	1.0	47	4.5	3.9	0.3	90
B419130 Orig	0.04	< 0.1	< 0.1	0.3	37	5.4	1.3	0.3	< 30
B419130 Dup	0.04	< 0.1	< 0.1	0.2	38	5.0	1.1	0.3	< 30
B419130 Orig		0.1	< 0.1	0.4	< 5	2.8	1.2	< 0.1	< 30
B419130 Dup		< 0.1	< 0.1	0.3	8	2.3	1.4	< 0.1	50
B419144 Orig	0.01	4.0	0.3	7.4	< 5	1.2	82.5	4.5	190
B419144 Dup	0.01	3.7	0.5	7.6	6	2.3	84.7	3.3	230
B419152 Orig	0.03	3.5	0.3	7.6	< 5	2.8	18.4	1.7	100
B419152 Dup	0.03	3.6	0.3	7.7	< 5	2.6	18.1	2.2	130
B419169 Orig	0.01	3.3	0.1	2.0	35	4.9	32.0	0.4	50
B419169 Split PREP DUP	0.01	4.1	< 0.1	2.4	44	5.0	41.5	1.0	70
B419169 Split PREP DUP	0.01	4.1	< 0.1	2.4	44	5.0	41.5	1.0	70
B419178 Orig	0.02	4.4	0.2	3.9	6	2.7	14.7	0.7	110
B419178 Dup	0.02	4.6	0.2	3.9	< 5	2.6	15.9	1.5	80
B419187 Orig	< 0.01	6.8	0.1	2.8	< 5	2.6	8.5	0.5	30
B419187 Dup	< 0.01	6.4	0.1	2.9	6	1.4	8.2	0.2	60
B419189 Orig	< 0.01	1.7	0.2	1.2	45	4.5	20.3	1.1	120
B419189 Split PREP DUP	< 0.01	2.0	0.2	1.4	46	3.7	23.4	1.3	120
Method Blank	≤ 0.01	< 0.1	< 0.1	0.2	9	6.5	< 0.1	< 0.1	< 30
Analyte Symbol	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS- Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
Method Blank	< 0.01	< 0.1	< 0.1	0.1	28	3.7	0.1	0.2	< 30
Method Blank	< 0.01	< 0.1	< 0.1	0.1	29	4.2	0.1	0.1	< 30

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Method Blank		< 0.1	< 0.1	0.1	< 5	1.2	< 0.1	< 0.1	< 30
Method Blank	< 0.01	< 0.1	< 0.1	< 0.1	33	4.5	< 0.1	< 0.1	30
Method Blank		< 0.1	< 0.1	0.1	< 5	1.6	< 0.1	< 0.1	30



Report No.: A21-19169
 Report Date: 09-Nov-21
 Date Submitted: 12-Oct-21
 Your Reference: Campus Creek Pegmatites

Grid Metals Corp.
 304-3335 Yonge St
 Toronto Ontario M4N 2M1
 Canada

ATTN: Dave Peck

CERTIFICATE OF ANALYSIS

31 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
UT-7-Grid	QOP Sodium Peroxide (Sodium Peroxide Fusion ICPOES + ICPMS)	2021-11-04 16:39:46

REPORT A21-19169

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Notes:



CERTIFIED BY:

Emmanuel Esemé, 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
 LabID: 266 E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3 (T)	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419070	0.24	< 5	< 10	7	< 3	< 2	< 0.01	< 2	2.5	1.2	70	0.7	8	< 0.3	0.1	< 0.1	0.52	0.9	0.2	0.8	< 0.2	< 10	< 0.2
B419194	11.12	< 5	< 10	6	< 3	9	< 0.01	< 2	2.7	0.4	60	79.9	12	0.8	< 0.1	< 0.1	0.57	30.9	0.9	4.5	< 0.2	< 10	< 0.2
B419195	11.97	< 5	< 10	6	3	3	0.09	< 2	19.2	0.6	70	15.8	< 2	1.0	0.5	< 0.1	1.13	49.9	3.6	2.6	< 0.2	< 10	< 0.2
B419196	13.81	< 5	< 10	11	< 3	2	0.13	< 2	4.0	0.5	60	23.8	< 2	< 0.3	< 0.1	< 0.1	0.47	27.6	0.5	2.8	< 0.2	< 10	< 0.2
B419197	0.18	< 5	< 10	6	< 3	< 2	0.37	< 2	< 0.8	1.9	100	0.4	11	< 0.3	< 0.1	< 0.1	1.15	1.1	< 0.1	< 0.7	< 0.2	< 10	< 0.2
B419198	7.90	< 5	< 10	4	< 3	6	< 0.01	< 2	5.3	0.3	60	6.9	5	0.9	0.1	< 0.1	0.61	24.0	1.0	2.8	< 0.2	< 10	< 0.2
B419199	4.82	< 5	< 10	4	< 3	44	< 0.01	< 2	6.1	1.1	120	2.8	4	1.1	0.4	< 0.1	0.71	12.7	1.9	2.4	< 0.2	< 10	< 0.2
B419201	9.77	< 5	< 10	< 3	< 3	< 2	< 0.01	< 2	2.0	0.9	60	38.9	4	0.5	0.1	< 0.1	1.02	54.2	0.2	2.8	< 0.2	< 10	0.3
B419202	14.16	< 5	20	3	5	< 2	0.02	< 2	22.4	0.6	50	378	< 2	2.1	0.6	< 0.1	0.95	70.2	4.5	4.6	< 0.2	< 10	< 0.2
B419203	14.51	< 5	< 10	17	4	4	0.16	< 2	38.4	1.4	40	6.6	6	10.9	3.1	< 0.1	1.40	44.3	7.9	3.5	1.9	20	< 0.2
B419204	13.35	< 5	30	19	5	3	0.18	< 2	9.2	0.5	50	23.1	5	3.7	1.4	< 0.1	1.05	44.8	4.2	3.6	0.5	20	< 0.2
B419205	5.44	< 5	< 10	18	< 3	< 2	0.13	< 2	2.0	1.0	110	4.6	4	< 0.3	< 0.1	< 0.1	0.75	14.0	0.2	1.4	< 0.2	< 10	< 0.2
B419206	14.17	< 5	< 10	12	4	< 2	0.05	< 2	46.2	1.7	280	13.7	4	11.6	3.4	< 0.1	1.48	68.1	11.2	3.5	1.7	< 10	0.2
B419207	13.45	< 5	10	4	< 3	2	0.10	< 2	4.9	0.5	60	35.0	4	1.6	0.5	< 0.1	0.56	39.4	1.5	4.0	0.2	< 10	< 0.2
B419208	14.63	< 5	< 10	6	< 3	5	0.14	< 2	38.2	< 0.2	70	11.7	< 2	5.2	3.5	< 0.1	0.90	48.6	5.5	2.9	1.1	< 10	< 0.2
B419209	14.15	< 5	< 10	5	< 3	2	< 0.01	< 2	8.2	0.6	< 30	10.3	< 2	2.1	1.0	< 0.1	0.57	35.3	2.0	2.6	0.4	< 10	< 0.2
B419210	9.36	42	30	2010	35	12	1.56	2	1180	8.3	100	238	300	10.2	3.3	10.0	4.60	21.3	17.0	6.4	1.5	10	2.5
B419211	14.25	< 5	< 10	294	3	< 2	0.60	< 2	37.1	0.9	70	10.3	< 2	4.3	2.9	0.5	1.15	31.8	3.2	2.0	0.8	< 10	< 0.2
B419212	15.12	< 5	10	15	4	< 2	0.36	< 2	8.2	2.1	60	2.5	9	21.6	11.6	< 0.1	1.92	36.1	10.1	3.0	4.7	20	< 0.2
B419213	12.53	< 5	< 10	3	< 3	4	0.08	< 2	20.1	0.5	50	12.3	< 2	8.2	5.5	< 0.1	1.00	31.2	4.6	3.7	1.9	< 10	< 0.2
B419214	13.92	< 5	< 10	10	3	4	0.26	< 2	36.5	< 0.2	50	10.1	9	5.4	3.0	< 0.1	0.88	40.2	4.9	2.6	1.1	< 10	< 0.2
B419215	15.25	< 5	< 10	7	< 3	< 2	< 0.01	< 2	4.3	0.3	40	10.6	< 2	1.2	0.4	< 0.1	0.47	35.4	1.0	2.4	< 0.2	< 10	< 0.2

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B41921 6	8.30	< 5	< 10	32	< 3	< 2	11.17	< 2	2.5	23.1	270	2.4	65	1.3	1.2	0.3	8.00	10.6	0.6	2.2	0.4	< 10	< 0.2
B41921 7	5.17	< 5	< 10	4	< 3	< 2	< 0.01	< 2	2.8	0.3	60	14.7	< 2	0.7	0.1	< 0.1	0.56	17.1	0.6	3.0	< 0.2	< 10	< 0.2
B41921 8	18.78	< 5	< 10	9	< 3	< 2	0.06	< 2	13.7	0.3	40	22.6	8	1.2	0.3	< 0.1	0.40	36.3	2.0	3.3	< 0.2	< 10	< 0.2
B41922 0	16.55	6	10	16	120	2	0.16	< 2	< 0.8	0.8	60	63.3	21	< 0.3	< 0.1	< 0.1	1.26	18.6	< 0.1	6.4	< 0.2	< 10	< 0.2
B41922 1	14.57	< 5	< 10	6	< 3	6	0.03	< 2	13.8	0.7	50	14.1	3	< 0.3	0.1	< 0.1	0.87	54.4	1.5	2.7	< 0.2	< 10	0.2
B41922 2	15.64	< 5	< 10	7	< 3	3	0.05	< 2	2.7	1.1	70	21.6	6	0.4	< 0.1	< 0.1	0.33	28.9	0.3	2.4	< 0.2	10	< 0.2
B41922 3	12.36	< 5	< 10	< 3	< 3	< 2	0.02	< 2	1.1	0.4	50	12.8	< 2	< 0.3	< 0.1	< 0.1	0.39	22.2	< 0.1	2.7	< 0.2	< 10	< 0.2
B41922 4	9.03	< 5	< 10	4	< 3	9	0.10	< 2	12.0	0.3	60	9.0	2	1.2	0.4	< 0.1	0.84	29.0	2.4	2.6	< 0.2	10	< 0.2
B41922 5	11.95	< 5	< 10	< 3	< 3	< 2	0.03	< 2	1.4	0.9	50	18.1	5	< 0.3	0.2	< 0.1	0.54	19.3	0.3	3.5	< 0.2	< 10	< 0.2

Analyte Symbol	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2
B41907 0	< 0.01	1.0	17	< 0.01	67	3	3.6	0.4	50	4.6	0.3	1.3	99.84	< 2	11	> 30.0	0.2	0.8	11	0.4	< 0.1	< 6	0.7
B41919 4	5.37	1.3	74	< 0.01	125	11	89.4	0.9	< 10	26.3	0.3	1530	77.76	< 2	11	> 30.0	1.2	9.5	9	188	0.2	9	2.2
B41919 5	3.65	8.1	276	0.04	179	7	78.1	10.1	< 10	13.5	3.1	824	82.29	< 2	23	> 30.0	5.3	18.2	10	6.8	0.4	< 6	4.9
B41919 6	7.79	2.0	49	0.01	62	4	18.8	2.3	< 10	41.9	0.4	1420	79.05	< 2	11	> 30.0	1.1	3.4	16	3.3	< 0.1	16	0.5
B41919 7	0.02	< 0.4	6	0.23	153	7	3.9	< 0.4	20	2.7	< 0.1	5.3	96.63	< 2	< 8	> 30.0	0.2	< 0.5	16	0.6	< 0.1	14	< 0.1
B41919 8	4.06	2.0	26	< 0.01	221	7	15.1	2.6	< 10	15.0	0.8	777	82.15	< 2	< 8	> 30.0	1.3	1.9	6	1.4	0.1	< 6	0.9
B41919 9	1.52	2.6	21	0.02	152	9	23.1	3.4	< 10	11.2	0.9	283	89.35	< 2	< 8	> 30.0	1.8	2.2	10	3.8	0.2	< 6	1.0
B41920 1	3.80	0.9	242	0.03	148	4	68.2	1.2	< 10	22.7	0.2	1140	82.13	< 2	11	> 30.0	0.4	27.6	10	13.0	< 0.1	8	0.6
B41920 2	5.18	7.3	408	0.02	430	6	81.2	14.2	< 10	27.6	3.8	1790	72.27	< 2	< 8	> 30.0	6.3	35.6	11	32.2	0.6	< 6	6.1
B41920 3	1.62	16.5	51	0.31	2130	4	71.2	22.2	< 10	24.4	4.8	260	73.33	< 2	57	> 30.0	8.3	33.1	21	46.7	1.5	6	8.0
B41920 4	2.73	4.0	69	0.06	1350	6	74.8	3.3	< 10	20.7	1.2	619	75.22	< 2	23	> 30.0	2.6	13.8	19	25.9	0.5	7	2.0
B41920 5	2.27	0.7	4	< 0.01	51	10	11.7	0.8	20	20.2	0.2	363	87.24	< 2	< 8	> 30.0	< 0.1	0.8	11	1.9	< 0.1	< 6	0.8
B41920 6	1.65	16.0	286	0.04	1990	30	113.6	25.5	< 10	18.4	6.5	557	72.78	< 2	28	> 30.0	11.1	17.2	5	11.0	1.8	6	9.4

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B419207	7.56	2.2	78	0.01	192	5	38.7	2.6	20	51.4	0.7	1450	77.61	< 2	< 8	> 30.0	1.0	5.9	13	14.6	0.2	< 6	1.7
B419208	6.10	14.1	130	0.02	727	8	80.0	19.9	< 10	35.6	5.5	1030	75.00	< 2	< 8	> 30.0	6.8	6.6	14	8.0	0.9	8	12.3
B419209	6.08	3.7	42	< 0.01	320	6	51.6	2.3	< 10	42.8	1.0	1060	68.09	< 2	< 8	> 30.0	1.5	4.4	7	5.9	0.4	< 6	2.8
B419210	1.99	734	2370	0.88	394	10	1185.7	395	30	30.3	127	1250	75.24	12	< 8	> 30.0	52.9	750	264	18.0	2.7	8	101
B419211	4.20	19.5	87	0.11	647	5	37.0	14.0	10	34.2	4.2	623	71.91	< 2	23	> 30.0	2.9	3.5	90	5.4	0.6	6	13.5
B419212	1.50	2.7	35	0.22	5250	< 1	39.6	3.6	20	21.7	1.5	180	75.37	< 2	23	> 30.0	2.9	2.9	29	6.8	2.9	6	2.9
B419213	4.34	8.7	32	< 0.01	1530	5	54.0	10.6	< 10	38.5	2.9	718	73.97	< 2	< 8	> 30.0	2.8	1.9	8	7.0	0.9	< 6	10.1
B419214	2.75	14.2	46	0.02	684	6	86.0	20.7	< 10	32.4	5.3	456	73.68	11	11	> 30.0	6.6	2.8	20	12.6	0.8	10	16.5
B419215	8.24	1.9	41	< 0.01	232	5	24.0	2.5	< 10	49.9	0.6	1290	74.22	< 2	< 8	> 30.0	0.7	5.0	8	3.9	0.2	7	1.2
B419216	0.08	1.1	31	4.86	1680	7	3.8	2.2	40	6.2	0.3	12.5	65.95	< 2	< 8	> 30.0	0.9	1.4	50	0.5	0.2	6	0.1
B419217	0.96	0.8	56	< 0.01	99	6	30.0	1.5	< 10	11.6	0.4	293	84.94	< 2	18	> 30.0	1.1	3.2	8	9.0	0.2	< 6	0.8
B419218	10.70	6.4	34	< 0.01	378	7	7.4	7.1	< 10	39.4	2.2	1860	68.36	< 2	18	> 30.0	2.8	4.2	14	0.9	0.3	16	3.3
B419220	2.47	< 0.4	10000	0.02	733	6	34.9	< 0.4	20	13.5	0.1	601	71.24	< 2	< 8	> 30.0	0.4	130	35	17.4	< 0.1	10	0.3
B419221	5.01	6.7	208	0.03	247	3	62.5	7.0	< 10	30.7	1.7	1070	72.26	< 2	18	> 30.0	2.5	9.3	9	5.4	0.2	< 6	3.1
B419222	9.73	1.7	16	0.01	68	< 1	23.5	0.9	30	40.0	0.4	1660	72.20	< 2	< 8	> 30.0	0.8	1.5	10	3.8	< 0.1	26	0.4
B419223	7.57	1.1	28	< 0.01	45	4	7.1	< 0.4	< 10	35.3	< 0.1	1330	78.14	< 2	< 8	> 30.0	< 0.1	1.5	15	0.7	< 0.1	< 6	< 0.1
B419224	2.75	4.8	75	0.01	334	5	57.7	6.7	< 10	16.1	1.6	555	81.11	< 2	< 8	> 30.0	2.1	4.0	9	5.7	0.3	7	2.7
B419225	7.47	0.6	15	< 0.01	68	3	13.5	0.8	20	35.3	0.1	1410	80.41	< 2	< 8	> 30.0	0.3	1.2	15	6.4	< 0.1	9	0.4

Analyte Symbol	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419070	0.04	< 0.1	< 0.1	0.3	< 5	2.4	1.6	0.3	< 30
B419194	< 0.01	10.4	< 0.1	1.0	7	2.5	4.9	0.3	< 30
B419195	0.02	4.0	< 0.1	0.8	< 5	2.1	6.3	0.1	60
B419196	< 0.01	8.8	< 0.1	0.5	< 5	< 0.7	1.3	< 0.1	< 30
B419197	< 0.01	< 0.1	< 0.1	0.2	9	< 0.7	0.2	0.2	< 30

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B419198	< 0.01	4.9	< 0.1	0.2	< 5	< 0.7	3.4	< 0.1	40
B419199	< 0.01	1.7	< 0.1	0.8	< 5	3.1	7.5	0.2	< 30
B419201	0.03	6.4	< 0.1	0.6	6	2.5	3.1	0.2	70
B419202	0.02	11.3	< 0.1	3.9	< 5	2.6	19.1	0.5	120
B419203	< 0.01	1.5	0.5	3.0	< 5	10.3	84.1	5.7	80
B419204	< 0.01	3.1	0.1	1.4	5	< 0.7	29.1	0.5	50
B419205	0.01	2.3	< 0.1	0.7	< 5	< 0.7	0.9	< 0.1	< 30
B419206	0.02	2.4	0.4	2.6	< 5	5.0	86.4	3.0	390
B419207	< 0.01	9.6	0.1	2.1	< 5	2.3	14.7	0.5	30
B419208	0.01	6.3	0.6	3.4	< 5	1.9	39.6	3.7	40
B419209	< 0.01	6.3	0.1	2.5	< 5	1.1	10.7	1.2	< 30
B419210	0.80	11.3	0.5	16.5	64	5.7	25.5	1.8	150
B419211	0.08	3.7	0.4	5.6	8	< 0.7	30.2	3.2	40
B419212	0.01	1.0	1.7	2.3	< 5	2.8	216	12.7	< 30
B419213	< 0.01	4.3	0.9	5.5	< 5	2.1	78.6	7.0	< 30
B419214	0.01	2.7	0.4	5.0	< 5	21.8	38.0	3.4	60
B419215	< 0.01	8.3	< 0.1	1.0	< 5	1.4	7.7	0.7	< 30
B419216	0.30	0.1	0.3	0.2	145	3.9	12.3	2.5	40
B419217	< 0.01	2.1	< 0.1	0.6	< 5	2.4	2.5	0.2	< 30
B419218	< 0.01	12.4	< 0.1	0.9	< 5	44.6	6.1	0.2	30
B419220	< 0.01	3.6	< 0.1	6.0	< 5	7.1	0.8	< 0.1	70
B419221	0.01	6.4	< 0.1	0.4	< 5	5.5	3.5	0.2	50
B419222	< 0.01	10.8	< 0.1	1.5	< 5	0.8	0.8	0.2	< 30
B419223	< 0.01	8.7	< 0.1	0.2	< 5	1.5	0.4	< 0.1	< 30
B419224	0.02	3.1	0.1	0.7	< 5	2.5	7.3	0.2	50
B419225	< 0.01	7.9	< 0.1	0.7	< 5	1.6	0.4	< 0.1	< 30

Analyte Symbol	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3 (T)	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
PTM-1a Meas		2100								> 5000			> 10000										
PTM-1a Cert		2200								20500.00			249600.00										
NIST 696 Meas	52.73						0.02										8.04						
NIST 696 Cert	54.5						0.018										8.70						
Oreas 74a (Fusion) Meas	2.21	52								585	1690		1200										
Oreas 74a (Fusion) Cert	2.21	50								581			1240.00										
Oreas 74a (Fusion) Meas		52								556	1790		1190										
Oreas 74a (Fusion) Cert		50								581			1240.00										
OREAS 101a (Fusion) Meas									1280	44.7			423	31.7	18.4	6.9			29.2			6.5	
OREAS 101a (Fusion) Cert									1396	48.8			434	33.3	19.5	8.06			43.4			6.46	
NCS DC86315 Meas	14.71						0.75										0.60						
NCS DC86315 Cert	14.5						0.71										0.68						
NCS DC86314 Meas	24.67						0.10					2830					0.26						
NCS DC86314 Cert	24.5						0.063					2830					0.30						
CZN-4 Meas		349						2570		102			4150										
CZN-4 Cert		356.00						2604.00		93.5			4030.00										

Analyte Symbol	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
PTM-1a Meas									
PTM-1a Cert									
NIST 696 Meas	2.46								
NIST 696 Cert	2.64								
Oreas 74a (Fusion) Meas									
Oreas 74a (Fusion) Cert									
Oreas 74a (Fusion) Meas									
Oreas 74a (Fusion) Cert									
OREAS 101a (Fusion) Meas			2.5	417	81		178	20.0	
OREAS 101a (Fusion) Cert			2.90	422	83		183	17.5	
NCS DC86315 Meas	0.04								
NCS DC86315 Cert	0.039								
NCS DC86314 Meas	0.03					76.9			
NCS DC86314 Cert	0.029					79.0			
CZN-4 Meas									> 10000
CZN-4 Cert									550700 .00
Lithium Tetraborate FX-LT 100 lot#220610B Meas									

Lithium Tetraborate FX-LT 100 lot#220610B Cert									
OREAS 922 (Peroxide Fusion) Meas		0.8	0.5	3.5	89		32.9	2.7	280
OREAS 922 (Peroxide Fusion) Cert		0.9	0.510	3.6	92.0		31.1	3.17	280
OREAS 621 (Peroxide Fusion) Meas		1.7		3.3	36	6.2	14.5	1.1	> 10000
OREAS 621 (Peroxide Fusion) Cert		2.0		3.0	36.3	2.6	13.9	1.03	52200
CCU-1e Meas		2.8							> 10000
CCU-1e Cert		2.69							30200
OREAS 680 (Peroxide Fusion) Meas				1.5	237		14.9	2.1	2540
OREAS 680 (Peroxide Fusion) Cert				1.55	224		16.2	1.52	2320
OREAS 139 (Peroxide Fusion)									
Analyte Symbol	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
Meas									
OREAS 139 (Peroxide Fusion) Cert									
OREAS 624 (Peroxide Fusion) Meas		0.9		1.3	35	6.0	16.3	1.7	> 10000
OREAS 624 (Peroxide Fusion) Cert		0.940		1.34	43.3	4.58	17.3	1.94	24100

OREAS 124 (Peroxide Fusion) Meas			0.2	1790	25		14.6	1.5	
OREAS 124 (Peroxide Fusion) Cert			0.220	1790	23.3		14.2	1.63	
AMIS 0346 (Peroxide Fusion) Meas					2830				
AMIS 0346 (Peroxide Fusion) Cert					2700				
NCS DC73520 Meas									
NCS DC73520 Cert									
OREAS 148 (Peroxide Fusion) Meas									
OREAS 148 (Peroxide Fusion) Cert									
B419199 Orig	< 0.01	1.6	< 0.1	0.8	< 5	4.0	7.6	0.2	30
B419199 Dup	< 0.01	1.8	< 0.1	0.9	< 5	2.2	7.4	0.2	< 30
B419208 Orig	0.01	6.0	0.6	3.4	6	2.2	38.2	3.8	40
B419208 Dup	0.01	6.5	0.6	3.4	< 5	1.6	41.0	3.6	50
B419223 Orig	< 0.01	8.6	< 0.1	0.2	5	0.7	0.5	0.1	< 30
B419223 Dup	< 0.01	8.8	< 0.1	0.2	< 5	2.3	0.3	< 0.1	< 30
B419225 Orig	< 0.01	7.9	< 0.1	0.7	< 5	1.6	0.4	< 0.1	< 30
B419225 Split PREP DUP	< 0.01	7.8	< 0.1	0.7	< 5	1.9	1.2	0.3	< 30
Method Blank	< 0.01								
Method Blank	< 0.01	< 0.1	< 0.1	0.1	< 5	1.4	< 0.1	< 0.1	< 30
Method Blank	< 0.01								



Report No.: A21-19475
Report Date: 28-Oct-21
Date Submitted: 15-Oct-21
Your Reference: Campus Creek Pegmatites

Grid Metals Corp.
304-3335 Yonge St
Toronto Ontario M4N 2M1
Canada

ATTN: Dave Peck

CERTIFICATE OF ANALYSIS

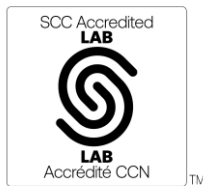
10 Rock samples were submitted for analysis.

Table with 2 columns: Analytical package requested (UT-7-Grid, QOP Sodium Peroxide...) and Testing Date (2021-10-27 07:56:11)

REPORT A21-19475

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Notes:



Emmanuel Esemé, 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
LabID: 266 E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Handwritten signature

Results

Activation Laboratories Ltd.

Report: A21-19475

Analyte Symbol	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3 (T)	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419050	0.23	< 5	< 10	5	< 3	< 2	< 0.01	< 2	2.0	0.7	60	0.3	10	0.3	0.2	< 0.1	0.50	0.2	0.2	0.9	< 0.2	< 10	< 0.2
B419060	9.79	51	30	1970	32	13	1.62	< 2	1190	7.5	150	242	303	10.2	2.7	11.0	4.74	22.4	24.2	7.2	1.3	< 10	2.3
B419080	16.28	10	20	18	117	2	0.04	2	0.8	0.7	50	63.6	22	< 0.3	< 0.1	< 0.1	1.24	18.0	0.4	5.5	< 0.2	< 10	< 0.2
B419264	12.82	< 5	< 10	9	5	< 2	0.11	< 2	4.6	0.6	80	63.5	< 2	1.3	0.2	< 0.1	0.48	31.7	0.7	3.5	< 0.2	< 10	< 0.2
B419232	5.93	< 5	< 10	< 3	< 3	2	0.05	< 2	2.1	1.4	70	9.3	10	< 0.3	< 0.1	< 0.1	0.69	10.2	0.9	1.9	< 0.2	< 10	< 0.2
B419234	17.65	< 5	< 10	32	< 3	< 2	0.14	< 2	21.0	1.3	60	37.6	11	6.3	2.0	0.1	1.08	41.1	5.9	2.8	1.0	< 10	< 0.2
B419246	9.93	< 5	< 10	12	< 3	27	0.11	< 2	22.1	0.8	60	13.8	13	2.8	1.0	< 0.1	1.27	32.9	2.8	2.2	0.4	< 10	0.2
B419258	13.30	< 5	< 10	4	6	< 2	0.28	< 2	47.9	0.6	70	43.0	10	7.5	3.6	< 0.1	0.62	36.3	9.4	2.8	1.2	< 10	< 0.2
B419259	15.82	< 5	< 10	6	4	40	0.29	< 2	58.0	0.4	60	47.7	5	11.0	2.9	< 0.1	0.54	42.7	12.8	3.4	1.5	< 10	< 0.2
B419262	14.05	< 5	< 10	8	4	7	0.07	< 2	5.8	0.6	60	53.3	4	1.3	0.3	< 0.1	0.47	33.5	1.9	2.9	0.2	< 10	< 0.2

Results

Activation Laboratories Ltd.

Report: A21-19475

Analyte Symbol	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419050	< 0.01	0.8	21	< 0.01	62	2	4.3	0.7	10	6.1	0.2	2.0	84.66	< 2	26	> 30.0	0.3	0.7	13	0.4	< 0.1	< 6	0.6
B419060	2.15	717	2290	0.91	426	9	1255.8	407	60	32.9	118	1200	78.69	13	42	> 30.0	48.6	725	338	18.1	3.2	10	97.8
B419080	2.36	0.4	9950	0.02	757	3	42.7	< 0.4	20	13.3	< 0.1	619	72.23	< 2	16	> 30.0	0.1	166	29	21.3	< 0.1	< 6	0.4
B419264	6.27	1.8	88	0.02	110	4	31.3	1.6	40	40.2	0.8	1080	76.15	< 2	< 8	> 30.0	0.7	5.7	18	8.5	0.2	< 6	2.2
B419232	3.42	0.9	88	0.02	160	3	28.1	1.2	20	18.7	0.3	593	87.73	< 2	16	> 30.0	0.2	1.9	12	4.0	< 0.1	7	0.1
B419234	6.09	7.0	34	0.31	250	3	106.3	10.6	20	30.8	2.9	1070	77.76	< 2	21	> 30.0	5.4	9.4	17	20.1	1.2	7	8.5
B419246	3.76	8.5	88	0.05	442	3	61.4	11.2	< 10	39.0	2.8	691	79.16	< 2	11	> 30.0	4.0	11.1	15	10.5	0.5	10	6.8
B419258	3.00	18.6	73	0.01	606	3	113.0	24.2	30	30.7	5.9	529	77.68	< 2	11	> 30.0	9.4	5.2	14	22.8	1.6	15	20.5
B419259	4.90	20.9	111	0.02	161	3	194.9	30.1	10	50.1	7.4	887	72.74	< 2	< 8	> 30.0	11.3	6.9	17	31.0	2.0	< 6	25.9
B419262	6.26	2.7	58	0.01	177	< 1	33.0	1.4	30	45.3	0.5	1080	73.86	< 2	< 8	> 30.0	0.7	3.5	11	11.2	0.3	9	3.0

Analyte Symbol	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419050	0.04	< 0.1	< 0.1	0.3	5	2.4	1.2	0.2	< 30
B419060	0.82	11.7	0.4	17.0	78	7.9	21.5	2.7	140
B419080	< 0.01	4.0	< 0.1	6.5	< 5	6.6	0.5	0.2	70
B419264	< 0.01	8.2	< 0.1	2.3	< 5	1.5	6.3	0.3	30
B419232	< 0.01	3.9	< 0.1	1.7	< 5	3.4	0.7	0.2	< 30
B419234	0.03	7.4	0.4	5.1	< 5	2.5	37.3	2.3	60
B419246	0.04	5.0	0.2	3.2	< 5	3.4	15.3	1.1	110
B419258	< 0.01	3.1	0.5	14.1	< 5	4.3	47.3	2.5	70
B419259	0.01	5.2	0.5	18.4	< 5	3.8	52.2	2.1	80
B419262	< 0.01	8.0	< 0.1	2.3	< 5	3.0	7.1	0.4	< 30

Analyte Symbol	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3 (T)	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
PTM-1a Meas		2170								> 5000			> 10000										
PTM-1a Cert		2200								20500.00			249600.00										
NIST 696 Meas	53.65						< 0.01				340						8.28						
NIST 696 Cert	54.5						0.018				321.0						8.70						
DTS-2b Meas	0.41						0.07																
DTS-2b Cert	0.450						0.120																
Oreas 74a (Fusion) Meas	2.22	51								572	1840		1210										
Oreas 74a (Fusion) Cert	2.21	50								581			1240.000										
NCS DC86315 Meas	14.83						0.69										0.62						
NCS DC86315 Cert	14.58						0.71										0.68						
NCS DC86314 Meas	24.67						0.01					2790					0.26						
NCS DC86314 Cert	24.53						0.063					2830					0.30						
CZN-4 Meas		348						2530		98.6			3880										
CZN-4 Cert		356.0000						2604.0000		93.5			4030.000										
Lithium Tetraborate FX-LT 100 lot#220610 B Meas			> 10000																				
Lithium Tetraborate FX-LT			255700																				

Meas																					
OREAS 624 (Peroxide Fusion) Cert	115		1070	21.3		133	32.9	273		1.32	30800					22.1					4.14
OREAS 624 (Peroxide Fusion) Meas	116		1070	21		130	32.7	270		1.4	> 10000					22.0					3.5
OREAS 624 (Peroxide Fusion) Cert	115		1070	21.3		133	32.9	273		1.32	30800					22.1					4.14
OREAS 124 (Peroxide Fusion) Meas			1040	< 3			47.9		80			2.7	1.8	1.6		9.8	3.3			0.6	< 10
OREAS 124 (Peroxide Fusion) Cert			1020	1.83			47.6		51.0			2.82	1.60	1.15		10.5	3.47			0.580	6.22
AMIS 0346 (Peroxide Fusion) Meas																					
AMIS 0346 (Peroxide Fusion) Cert																					
NCS DC73520 Meas	5.18					18.36															
NCS DC73520 Cert	5.20					18.13															
OREAS 148 (Peroxide Fusion) Meas																					

OREAS 148 (Peroxide Fusion) Cert																								
B41924 6 Orig	10.02	< 5	< 10	20	< 3	26	0.16	< 2	23.0	1.1	70	15.1	14	2.7	0.9	< 0.1	1.27	29.9	3.0	2.4	0.4	< 10	0.3	
B41924 6 Dup	9.85	< 5	< 10	4	< 3	28	0.05	< 2	21.2	0.5	60	12.5	12	3.0	1.1	< 0.1	1.26	35.9	2.6	2.0	0.4	10	0.2	
Method Blank	< 0.01	< 5	< 10	< 3	< 3	< 2	< 0.01	< 2	< 0.8	0.2	50	0.2	9	< 0.3	< 0.1	< 0.1	< 0.01	< 0.2	< 0.1	< 0.7	< 0.2	< 10	< 0.2	
Method Blank	< 0.01	< 5	< 10	< 3	< 3	< 2	< 0.01	< 2	< 0.8	0.2	30	< 0.1	4	< 0.3	< 0.1	< 0.1	< 0.01	< 0.2	< 0.1	< 0.7	< 0.2	< 10	< 0.2	
Method Blank	< 0.01	< 5	< 10	< 3	< 3	< 2	< 0.01	< 2	< 0.8	< 0.2	40	0.2	< 2	< 0.3	< 0.1	< 0.1	< 0.01	< 0.2	< 0.1	< 0.7	< 0.2	< 10	< 0.2	
Method Blank	< 0.01						< 0.01										< 0.01							

Analyte Symbol	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS-Na2O2	FUSMSNaO2	FUSMSNaO2	FUS-Na2O2	FUSMSNaO2	FUSMSNaO2	FUSMSNaO2	FUSMSNaO2	FUSMSNaO2	FUSMSNaO2	FUSMSNaO2	FUSMSNaO2	FUS-Na2O2	FUSMSNaO2	FUSMSNaO2	FUS-Na2O2	FUSMSNaO2	FUSMSNaO2	FUSMSNaO2	FUSMSNaO2	FUSMSNaO2	FUSMSNaO2	FUSMSNaO2
PTM-1a Meas									> 10000														
PTM-1a Cert									474400.00														
NIST 696 Meas	0.03			0.01									3.65										
NIST 696 Cert	0.0090			0.012									3.79										
DTS-2b Meas				51.81									39.89			18.6							
DTS-2b Cert				49.4									39.4			18.4							
Oreas 74a (Fusion) Meas				27.35					> 10000				31.20			14.6							
Oreas 74a (Fusion) Cert				27.9					32400.00				32.4			15.1							
NCS DC86315 Meas	4.13			0.09									72.56			4							
NCS DC86315 Cert	4.11			0.093									72.3			4							
NCS DC86314 Meas	7.86		> 10000	0.02								> 5000	54.25					147					

NCS DC86314 Cert	7.75	18100.00	0.027						11400	53.9				152				
CZN-4 Meas								1740				114	0.26					
CZN-4 Cert								1861.0 000				86.7	0.29					
Lithium Tetraborate FX-LT 100 lot#220610 B Meas		> 10000																
Lithium Tetraborate FX-LT 100 lot#220610 B Cert		82100																
OREAS 922 (Peroxide Fusion) Meas													30.0					
OREAS 922 (Peroxide Fusion) Cert													30.51					
CCU-1e Meas				107				> 5000	3.03	116								75
CCU-1e Cert				96.0				7030	3.13	104								61.8
OREAS 680 (Peroxide Fusion) Meas													20.6					
OREAS 680 (Peroxide Fusion) Cert													20.6					
OREAS 139 (Peroxide Fusion) Meas		25.8	38	6730	14			> 5000	142	73		16.0		528		0.5		8.3
OREAS 139 (Peroxide Fusion) Cert		23.1	40.4	6570	11.1			22000	145	63.0		16.34		479		0.500		7.54
OREAS 139 (Peroxide Fusion) Meas		30.0	44	7400	11			> 5000	166	70				614		0.7		8.1
OREAS 139 (Peroxide Fusion)		23.1	40.4	6570	11.1			22000	145	63.0				479		0.500		7.54

Cert																							
OREAS 624		17.1	12		656	18	7.3	15.5		> 5000	4.4	38.1		70		19.4			47				3.9

Analyte Symbol	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2
(Peroxide Fusion) Meas																							
OREAS 624 (Peroxide Fusion) Cert		17.3	10.3		660	17.8	5.78	16.8		6120	4.27	33.0		72.0		20.5			47.6				4.12
OREAS 624 (Peroxide Fusion) Meas		17.2	11		675	15	8.0	14.8		> 5000	3.7	37.0		71					49				4.0
OREAS 624 (Peroxide Fusion) Cert		17.3	10.3		660	17.8	5.78	16.8		6120	4.27	33.0		72.0					47.6				4.12
OREAS 124 (Peroxide Fusion) Meas		21.8			705			23.5			5.6	80.8				> 30.0	4.8					0.4	6.4
OREAS 124 (Peroxide Fusion) Cert		21.6			700			20.8			5.39	86.0				38.2	4.21					0.480	5.74
AMIS 0346 (Peroxide Fusion) Meas																							
AMIS 0346																							

Oreas 74a (Fusion) Cert								
NCS DC86315 Meas	0.04							
NCS DC86315 Cert	0.039							
NCS DC86314 Meas	0.03				74.8			
NCS DC86314 Cert	0.029				79.0			
CZN-4 Meas								> 10000
CZN-4 Cert								550700.00
Lithium Tetraborate FX-LT 100 lot#220610B Meas								
Lithium Tetraborate FX-LT 100 lot#220610B Cert								
OREAS 922 (Peroxide Fusion) Meas								
OREAS 922 (Peroxide Fusion) Cert								
CCU-1e Meas		2.5						> 10000
CCU-1e Cert		2.69						30200
OREAS 680 (Peroxide Fusion) Meas								
OREAS 680 (Peroxide Fusion) Cert								
OREAS 139 (Peroxide Fusion) Meas		37.6		12.5		18.4		> 10000
OREAS 139 (Peroxide Fusion) Cert		35.4		12.2		17.1		133600.00

OREAS 139 (Peroxide Fusion) Meas		40.0		12.6			19.5		> 10000
OREAS 139 (Peroxide Fusion) Cert		35.4		12.2			17.1		133600.00
OREAS 624		0.7		1.3	35	6.9	17.3	2.2	> 10000
Analyte Symbol	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
(Peroxide Fusion) Meas									
OREAS 624 (Peroxide Fusion) Cert		0.940		1.34	43.3	4.58	17.3	1.94	24100
OREAS 624 (Peroxide Fusion) Meas		1.1		1.4	32	6.2	17.1	2.2	> 10000
OREAS 624 (Peroxide Fusion) Cert		0.940		1.34	43.3	4.58	17.3	1.94	24100
OREAS 124 (Peroxide Fusion) Meas			0.2	1790	28		13.6	1.9	
OREAS 124 (Peroxide Fusion) Cert			0.220	1790	23.3		14.2	1.63	
AMIS 0346 (Peroxide Fusion) Meas					3040				
AMIS 0346 (Peroxide Fusion) Cert					2700				
NCS DC73520 Meas									
NCS DC73520 Cert									
OREAS 148 (Peroxide Fusion) Meas									

OREAS 148 (Peroxide Fusion) Cert									
B419246 Orig	0.04	5.6	0.2	3.4	< 5	2.6	17.1	1.2	120
B419246 Dup	0.04	4.3	0.1	3.0	< 5	4.1	13.6	0.9	90
Method Blank	< 0.01	< 0.1	< 0.1	0.1	< 5	< 0.7	< 0.1	< 0.1	< 30
Method Blank	< 0.01	< 0.1	< 0.1	0.1	< 5	1.2	< 0.1	< 0.1	< 30
Method Blank	< 0.01	< 0.1	< 0.1	0.1	< 5	0.9	< 0.1	< 0.1	< 30
Method Blank	< 0.01								



Report No.: A21-19612
Report Date: 25-Nov-21
Date Submitted: 18-Oct-21
Your Reference: Campus Creek Pegmatites

Grid Metals Corp.
304-3335 Yonge St
Toronto Ontario M4N 2M1
Canada

ATTN: Dave Peck

CERTIFICATE OF ANALYSIS

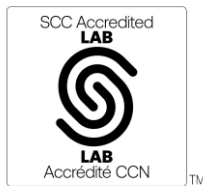
33 Rock samples were submitted for analysis.

Table with 2 columns: Analytical package requested (UT-7-Grid, QOP Sodium Peroxide...) and Testing Date (2021-11-19 10:41:21)

REPORT A21-19612

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Notes:



Emmanuel Esemé, 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
LabID: 266 E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Handwritten signature of Emmanuel Esemé

Results

Activation Laboratories Ltd.

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Analyte Symbol	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3 (T)	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419219	15.13	< 5	< 10	59	< 3	3	< 0.01	< 2	14.8	2.1	90	18.7	17	0.7	0.2	< 0.1	0.72	42.1	1.8	3.5	< 0.2	< 10	< 0.2
B419226	12.18	< 5	30	39	3	2	0.29	< 2	29.8	3.7	170	10.7	37	4.6	1.4	< 0.1	1.12	40.6	4.4	3.1	0.5	< 10	< 0.2
B419227	14.18	< 5	30	18	4	8	0.20	< 2	28.4	0.9	60	6.9	10	15.2	8.1	< 0.1	1.55	34.7	9.0	4.6	3.3	< 10	< 0.2
B419228	12.21	< 5	< 10	18	< 3	7	0.16	< 2	24.6	4.4	260	7.5	21	7.0	4.2	< 0.1	1.57	49.5	4.7	3.9	1.4	10	0.2
B419229	5.44	< 5	< 10	14	< 3	< 2	0.09	< 2	10.2	4.1	120	5.6	44	0.8	0.4	< 0.1	0.93	25.2	1.4	1.9	< 0.2	10	< 0.2
B419230	0.24	< 5	20	6	< 3	< 2	0.09	< 2	2.7	1.5	90	0.4	19	< 0.3	0.4	< 0.1	0.47	< 0.2	< 0.1	< 0.7	< 0.2	< 10	< 0.2
B419231	10.86	< 5	< 10	19	< 3	4	0.33	< 2	30.6	1.7	120	4.2	12	13.5	8.9	< 0.1	1.28	21.8	7.6	4.7	2.9	< 10	< 0.2
B419233	19.67	< 5	20	9	6	8	0.28	< 2	31.7	8.0	110	53.7	33	9.6	4.3	< 0.1	2.78	109	5.9	3.8	1.7	20	0.6
B419235	13.62	< 5	< 10	16	< 3	4	0.24	< 2	39.9	2.1	90	12.4	19	15.9	12.0	< 0.1	1.69	33.4	9.6	5.6	4.0	< 10	< 0.2
B419236	10.88	< 5	< 10	8	3	2	0.01	< 2	8.2	1.6	90	29.9	10	2.7	0.7	< 0.1	0.95	63.5	2.8	3.4	0.3	< 10	0.2
B419237	16.94	< 5	< 10	7	< 3	3	0.06	< 2	2.3	1.9	110	17.2	18	< 0.3	0.1	< 0.1	0.33	27.2	< 0.1	3.2	< 0.2	< 10	< 0.2
B419238	13.99	< 5	< 10	6	< 3	< 2	0.06	< 2	11.8	1.4	130	14.4	16	0.9	0.2	< 0.1	1.04	61.4	1.6	5.1	< 0.2	< 10	0.3
B419239	13.13	< 5	< 10	8	< 3	54	0.36	< 2	17.4	1.3	80	8.5	11	4.5	2.1	< 0.1	0.92	27.0	2.6	3.4	0.8	10	< 0.2
B419240	9.57	43	20	1890	33	14	1.26	2	913	8.5	160	256	320	6.9	2.1	7.4	4.67	26.0	18.9	7.3	1.2	10	2.4
B419241	15.34	< 5	< 10	11	< 3	3	0.06	< 2	2.7	2.6	90	25.3	28	< 0.3	< 0.1	< 0.1	0.60	24.8	0.4	2.9	< 0.2	10	< 0.2
B419242	14.03	< 5	< 10	8	< 3	< 2	0.30	< 2	11.7	3.7	110	15.6	21	2.6	1.0	< 0.1	1.01	36.4	2.2	4.2	0.4	< 10	< 0.2
B419243	13.50	9	< 10	9	5	< 2	0.26	< 2	99.8	2.3	100	45.2	21	5.7	1.2	< 0.1	2.81	53.9	12.5	4.0	0.5	< 10	0.4
B419244	9.41	< 5	< 10	5	3	< 2	0.16	< 2	9.1	2.9	130	5.3	13	1.6	0.5	< 0.1	1.01	27.1	2.7	3.8	< 0.2	< 10	< 0.2
B419245	14.54	7	< 10	20	< 3	3	0.09	< 2	15.6	7.5	90	11.3	46	0.6	< 0.1	< 0.1	0.69	30.4	1.2	3.5	< 0.2	20	< 0.2
B419247	11.95	< 5	< 10	10	5	4	0.20	< 2	32.8	4.3	120	10.1	25	8.8	5.1	< 0.1	1.78	26.6	6.0	4.9	1.7	10	< 0.2
B419248	15.31	< 5	< 10	20	< 3	< 2	0.11	< 2	4.4	4.0	120	18.1	16	0.7	0.3	< 0.1	0.56	27.2	0.8	3.3	0.3	10	< 0.2
B419249	17.89	< 5	< 10	12	< 3	< 2	0.09	< 2	2.9	4.8	110	19.4	22	0.3	0.2	< 0.1	0.55	32.7	< 0.1	3.9	< 0.2	10	< 0.2

Results

Activation Laboratories Ltd.

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B419250	15.92	10	30	21	113	3	0.18	< 2	< 0.8	4.1	110	64.0	37	< 0.3	< 0.1	< 0.1	1.24	13.9	0.2	7.4	< 0.2	20	< 0.2
B419251	14.20	< 5	30	12	4	4	0.07	< 2	14.5	1.0	90	431	10	3.3	0.5	< 0.1	0.70	38.2	2.7	5.0	0.2	< 10	< 0.2
B419252	15.91	< 5	< 10	7	62	4	0.12	< 2	8.5	0.7	80	103	11	2.7	0.4	< 0.1	0.92	60.0	3.4	7.9	0.3	< 10	< 0.2
B419253	16.26	8	20	9	11	4	0.05	< 2	4.8	108	6950	419	195	2.1	0.9	< 0.1	3.70	42.8	2.1	5.4	0.4	10	< 0.2
B419254	13.98	< 5	< 10	< 3	5	5	0.07	< 2	45.3	1.2	120	79.0	18	5.7	1.3	< 0.1	1.66	72.5	9.3	7.2	0.6	< 10	< 0.2
B419255	15.21	< 5	< 10	11	< 3	< 2	0.02	< 2	4.6	2.0	80	29.8	18	0.5	0.3	< 0.1	0.88	54.3	0.4	5.2	< 0.2	20	0.6
B419256	17.92	17	80	1200	6	< 2	3.96	< 2	269	9.9	80	6.3	38	4.2	1.6	2.6	4.82	22.2	8.2	1.8	0.8	10	< 0.2
B419257	13.96	< 5	10	7	6	11	0.16	< 2	23.3	1.1	80	85.7	16	6.1	3.2	< 0.1	1.13	49.8	5.4	4.3	1.1	< 10	0.3
B419260	0.22	< 5	< 10	6	< 3	< 2	0.01	< 2	1.8	2.0	80	< 0.1	17	< 0.3	< 0.1	< 0.1	0.44	< 0.2	< 0.1	1.3	< 0.2	< 10	< 0.2
B419261	15.14	< 5	10	9	< 3	4	0.28	< 2	62.2	1.0	60	30.1	11	13.2	8.8	< 0.1	1.23	37.7	9.5	3.3	3.3	< 10	0.3
B419263	14.59	< 5	20	9	5	10	0.44	< 2	23.5	1.2	60	33.8	12	4.0	2.1	< 0.1	0.93	44.0	4.0	3.5	0.9	< 10	0.2

Analyte Symbol	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419219	6.76	8.0	133	0.02	241	3	67.1	6.9	60	36.3	1.7	1390	65.91	< 2	< 8	> 30.0	2.4	5.6	14	9.5	0.2	10	4.0
B419226	2.10	11.4	185	0.02	887	19	267.7	13.1	120	19.5	4.2	520	70.34	< 2	31	> 30.0	6.1	5.4	14	36.5	0.9	< 6	8.0
B419227	1.00	13.7	117	0.02	3680	13	43.7	16.4	20	16.0	3.5	258	67.89	< 2	< 8	> 30.0	4.8	3.4	9	5.2	2.3	< 6	12.7
B419228	2.36	10.9	190	0.03	1930	25	124.2	13.7	130	27.9	3.6	568	72.86	< 2	26	> 30.0	4.4	7.8	17	17.5	1.0	10	9.8
B419229	1.30	4.3	158	0.02	301	13	41.1	6.0	110	22.1	1.3	358	79.06	< 2	15	> 30.0	1.9	8.3	13	4.7	0.2	< 6	2.6
B419230	< 0.01	1.6	23	< 0.01	81	5	6.0	1.0	60	8.0	0.3	5.4	85.01	< 2	< 8	> 30.0	0.2	1.5	15	0.8	< 0.1	10	0.8
B419231	2.24	10.9	44	0.02	2260	14	112.8	14.8	80	30.9	3.7	398	76.83	< 2	22	> 30.0	4.6	2.8	19	17.1	2.4	< 6	8.6
B419233	3.84	11.3	478	0.11	2530	13	142.5	14.8	480	19.5	4.1	1170	64.95	< 2	< 8	> 30.0	5.2	26.3	13	12.3	1.3	< 6	9.7
B419235	2.83	15.0	30	0.02	4000	11	69.1	18.2	50	34.1	4.8	558	72.88	< 2	< 8	> 30.0	7.0	2.4	14	11.8	2.1	< 6	15.4
B419236	3.91	3.2	248	0.03	383	13	75.2	4.7	50	13.9	1.1	1070	73.37	< 2	< 8	> 30.0	1.4	17.8	14	14.7	0.5	< 6	2.9
B419237	10.14	1.7	29	< 0.01	88	14	33.8	1.6	50	48.0	0.4	1830	62.51	< 2	< 8	29.2	0.5	2.2	15	6.1	< 0.1	< 6	0.3

Results

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B419238	5.33	6.1	259	0.03	261	14	75.4	5.0	60	33.2	1.4	1220	69.36	< 2	16	> 30.0	2.8	11.8	8	5.2	0.2	< 6	2.3
B419239	3.84	8.7	68	0.02	664	11	106.3	8.1	40	30.7	2.2	737	74.14	< 2	11	> 30.0	3.2	4.7	21	17.0	0.7	< 6	5.6
B419240	2.03	702	2290	0.87	373	6	1082.0	314	90	36.8	90.3	1220	75.08	12	16	> 30.0	35.7	744	263	17.6	1.9	21	86.5
B419241	9.41	1.6	33	< 0.01	156	6	23.8	0.9	60	49.2	0.3	1580	74.17	< 2	21	> 30.0	0.2	1.9	14	4.7	< 0.1	16	0.3
B419242	4.45	5.1	168	0.02	727	12	72.3	5.1	110	32.8	1.4	897	68.51	< 2	42	> 30.0	1.7	5.7	17	8.5	0.4	< 6	3.1
B419243	1.81	42.5	296	0.13	825	15	240.0	59.5	70	36.0	13.9	686	79.15	< 2	< 8	> 30.0	18.1	29.2	14	44.6	1.9	< 6	30.0
B419244	1.21	4.0	21	0.02	255	17	60.7	3.7	80	21.2	0.9	234	75.38	< 2	< 8	> 30.0	1.8	3.1	14	19.8	0.3	< 6	2.6
B419245	8.88	12.2	14	0.03	192	< 1	22.4	2.7	190	68.7	0.7	1390	72.55	< 2	< 8	> 30.0	1.2	2.5	22	7.1	0.1	22	3.1
B419247	1.46	16.4	56	0.03	2330	11	48.0	16.0	130	27.4	4.2	279	81.01	< 2	< 8	> 30.0	4.2	3.1	16	8.1	1.4	8	10.5
B419248	8.82	1.9	13	< 0.01	157	10	52.9	1.6	90	67.2	0.3	1460	77.50	< 2	16	> 30.0	0.8	2.7	15	12.4	0.2	10	1.0
B419249	11.26	1.9	19	< 0.01	163	10	15.1	1.0	120	90.1	0.3	1760	70.58	< 2	10	> 30.0	< 0.1	2.3	14	1.7	< 0.1	< 6	0.4
B419250	2.31	0.7	9500	0.02	797	10	45.0	< 0.4	100	32.3	< 0.1	624	71.01	< 2	12	> 30.0	< 0.1	136	35	24.7	< 0.1	7	0.4
B419251	5.57	5.3	709	0.02	547	1	50.3	7.6	80	33.4	1.7	1800	73.58	< 2	< 8	> 30.0	2.7	10.7	11	8.7	0.4	< 6	3.8
B419252	3.86	2.6	636	< 0.01	593	9	71.9	4.1	30	17.8	1.0	1760	79.36	< 2	21	> 30.0	2.6	34.3	10	58.2	0.6	11	3.0
B419253	7.35	2.5	520	0.01	1230	994	51.5	3.5	1830	36.8	0.6	2390	69.67	< 2	< 8	> 30.0	2.1	17.3	16	17.7	0.5	11	1.3
B419254	2.10	18.1	762	0.02	510	12	112.4	21.9	50	25.7	5.5	968	80.91	< 2	21	> 30.0	11.1	30.4	10	39.8	1.3	< 6	9.4
B419255	6.87	2.8	248	0.04	137	11	55.4	2.1	50	39.1	0.4	1350	75.57	< 2	16	> 30.0	< 0.1	11.6	15	5.9	0.1	8	1.0
B419256	6.01	144	77	1.64	923	12	33.0	92.4	40	59.9	21.8	194	57.23	< 2	11	26.8	14.0	2.0	1220	2.0	1.1	< 6	38.6
B419257	1.16	10.3	220	0.02	911	10	75.8	11.5	30	26.6	2.4	450	79.72	< 2	< 8	> 30.0	5.3	15.8	11	24.4	1.0	< 6	10.1
B419260	< 0.01	1.0	22	< 0.01	71	11	3.5	1.0	40	11.1	0.3	2.2	91.57	< 2	< 8	> 30.0	0.2	< 0.5	13	0.4	< 0.1	< 6	0.6
B419261	4.96	22.7	84	0.02	2010	3	84.9	29.6	30	41.0	8.5	811	75.97	< 2	12	> 30.0	8.7	4.8	15	9.6	1.9	< 6	27.2
B419263	1.18	7.8	100	0.03	537	4	83.4	10.2	30	22.9	2.8	284	71.67	< 2	19	> 30.0	4.4	6.0	14	15.7	0.9	< 6	9.7

Analyte Symbol	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2

Results

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B419219	< 0.01	7.7	<0.1	6.0	<5	1.1	2.8	0.2	40
B419226	< 0.01	3.3	0.3	30.2	<5	2.0	23.5	2.0	90
B419227	< 0.01	1.6	1.4	17.3	<5	<0.7	114	10.8	50
B419228	0.01	2.8	0.5	3.7	<5	2.8	42.6	4.0	200
B419229	< 0.01	1.9	<0.1	1.7	<5	0.9	5.1	0.5	70
B419230	0.04	0.2	<0.1	1.3	<5	<0.7	1.4	0.6	70
B419231	< 0.01	2.9	1.3	10.9	<5	<0.7	123	10.3	50
B419233	0.02	5.6	0.8	4.4	<5	2.6	80.6	7.2	470
B419235	< 0.01	3.6	2.2	6.3	<5	1.1	158	16.8	50
B419236	0.02	6.3	<0.1	5.0	<5	0.9	21.8	0.7	70
B419237	< 0.01	12.2	<0.1	2.4	<5	0.9	1.4	0.1	30
B419238	0.01	7.5	0.1	1.0	<5	1.9	4.5	0.1	50
B419239	< 0.01	4.7	0.5	5.4	<5	0.8	33.6	4.1	50
B419240	0.77	11.5	0.3	14.8	66	5.3	25.8	1.3	160
B419241	< 0.01	11.1	<0.1	1.7	<5	<0.7	2.3	0.3	<30
B419242	< 0.01	5.7	0.1	2.0	<5	<0.7	17.2	0.8	30
B419243	0.08	4.3	0.2	9.3	<5	1.6	26.4	0.9	190
B419244	< 0.01	1.6	<0.1	2.0	<5	1.4	9.4	0.5	30
B419245	< 0.01	9.6	<0.1	1.3	<5	1.1	2.8	0.3	80
B419247	< 0.01	1.7	0.6	3.3	<5	1.0	84.0	4.3	30
B419248	< 0.01	10.4	<0.1	3.1	<5	1.1	7.3	0.1	<30
B419249	< 0.01	11.6	<0.1	0.8	<5	0.7	1.8	0.2	<30
B419250	< 0.01	3.7	<0.1	7.3	<5	6.0	0.8	<0.1	110
B419251	< 0.01	13.5	0.1	5.1	<5	<0.7	14.6	0.8	140
B419252	< 0.01	12.6	<0.1	2.7	<5	0.8	17.9	0.6	110
B419253	< 0.01	17.9	0.1	1.6	37	39.5	20.9	0.8	60
B419254	0.01	5.5	0.2	2.1	<5	1.1	52.5	1.7	170
B419255	0.02	7.9	<0.1	0.5	<5	1.3	6.0	<0.1	70
B419256	0.52	1.3	0.2	6.2	66	1.7	17.0	1.2	100
B419257	0.02	2.2	0.5	7.7	<5	8.3	47.7	3.1	100
B419260	0.04	<0.1	<0.1	0.3	<5	<0.7	1.2	0.2	<30
B419261	0.01	4.6	1.5	10.1	<5	1.1	94.2	10.9	100
B419263	0.02	1.5	0.4	5.9	<5	<0.7	33.6	2.4	80

Analyte Symbol	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3 (T)	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
PTM-1a Meas		2180								> 5000			> 10000										
PTM-1a Cert		2200								20500.00			249600.00										
DTS-2b Meas	0.38						0.02																
DTS-2b Cert	0.450						0.120																
Oreas 74a (Fusion) Meas	2.17	49								540	1900		1180										
Oreas 74a (Fusion) Cert	2.21	50								581			1240.00										
MP-1b Meas		> 10000					977	3.37	529				1800.00										563
MP-1b Cert		23000.00					954.00	3.456	527.00				30700										565.00 00
NCS DC8631 5 Meas	15.37						0.69										0.65						
NCS DC8631 5 Cert	14.5						0.71										0.68						
NCS DC8631 4 Meas	25.60						0.13										0.22						
NCS DC8631 4 Cert	24.5						0.06										0.30						
CZN-4 Meas		373								2300			4010										
CZN-4 Cert		356.00 00								2604.0 000			4030.0 00										
OREAS 922 (Peroxide Fusion) Meas																							

OREAS 922 (Peroxide Fusion) Cert																					
OREAS 621 (Peroxide Fusion) Meas	77		2490	< 3	4		284	54.7	28.4	100	4.1	3710					29.1				1.5
OREAS 621 (Peroxide Fusion) Cert	85		2610	2	4		295	52.0	31.4	50	3.6	3680					26.5				1.9
CCU-1e Meas	1160						68		318			> 10000									
CCU-1e Cert	1010						74.2		301			229000									
OREAS 680 (Peroxide Fusion) Meas	115		617		< 2		9	39.8	318	2250	4.4	9140	3.0	1.6	1.5		18.2	3.3		0.6	
OREAS 680 (Peroxide Fusion) Cert	120		649		1.66		8.18	38.7	334	2140	3.94	9040	3.07	1.74	1.30		16.5	3.77		0.580	
OREAS 139 (Peroxide Fusion) Meas	336			3	8		288	54.6	25.6		3.0	281		1.5			10.7				0.7
OREAS 139 (Peroxide Fusion) Cert	332			3.17	6.64		296	49.4	26.0		3.21	274		1.69			10.2				0.690
OREAS 624 (Peroxide Fusion) Meas																					
OREAS 624 (Peroxide Fusion) Cert																					

Analyte Symbol	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3 (T)	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
AMIS 0346																							
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
(Peroxide Fusion) Meas																							
AMIS 0346 (Peroxide Fusion) Cert																							
NCS DC73520 Meas	5.03						18.82																
NCS DC73520 Cert	5.20						18.13																
OREAS 148 (Peroxide Fusion) Meas		63		998	38	20			731		130	314	343	6.9	1.8	6.9		26.1	14.1		0.9	10	3.6
OREAS 148 (Peroxide Fusion) Cert		59		1010	39	19			795		69	311	351	6.1	2.0	7.2		29.2	15.8		0.9	4	4.2
B419219 Orig	14.82	< 5	< 10	58	< 3	3	< 0.01	< 2	13.7	2.3	90	18.7	9	0.7	0.1	< 0.1	0.73	39.0	1.8	3.6	< 0.2	< 10	< 0.2
B419219 Dup	15.44	< 5	< 10	59	< 3	3	0.06	< 2	15.9	1.9	90	18.8	25	0.7	0.2	< 0.1	0.71	45.3	1.7	3.5	< 0.2	< 10	< 0.2
B419235 Orig	13.96	< 5	< 10	15	< 3	4	0.29	< 2	41.1	2.6	110	11.2	18	16.3	11.4	< 0.1	1.75	33.2	9.3	5.5	4.0	< 10	< 0.2
B419235 Dup	13.28	< 5	< 10	17	< 3	3	0.19	< 2	38.6	1.6	80	13.7	20	15.6	12.6	< 0.1	1.62	33.6	9.9	5.6	3.9	< 10	< 0.2
B419250 Orig	16.04	10	30	21	114	3	0.13	< 2	1.0	4.0	130	63.7	45	0.4	< 0.1	< 0.1	1.29	13.3	0.2	7.5	< 0.2	20	< 0.2
B419250 Dup	15.80	10	30	20	113	3	0.24	2	< 0.8	4.2	90	64.3	30	< 0.3	0.2	< 0.1	1.19	14.5	0.2	7.3	< 0.2	10	< 0.2
B419260 Orig	0.23	< 5	< 10	7	< 3	< 2	0.01	< 2	1.6	2.2	60	0.5	17	< 0.3	< 0.1	< 0.1	0.44	0.7	0.2	1.4	< 0.2	10	< 0.2
B419260 Dup	0.21	< 5	< 10	4	< 3	< 2	0.02	< 2	1.9	1.8	100	< 0.1	17	< 0.3	0.1	< 0.1	0.45	< 0.2	< 0.1	1.1	< 0.2	< 10	< 0.2

B41926 1 Orig	14.71	6	10	11	3	4	0.32	< 2	65.2	1.0	60	30.1	18	13.7	9.3	< 0.1	1.19	40.7	10.2	3.0	3.4	< 10	0.3
B41926 1 Dup	15.57	< 5	10	8	< 3	4	0.24	< 2	59.2	0.9	50	30.0	4	12.6	8.4	< 0.1	1.26	34.6	8.8	3.5	3.3	< 10	0.3
B41926 3 Orig	14.59	< 5	20	9	5	10	0.44	< 2	23.5	1.2	60	33.8	12	4.0	2.1	< 0.1	0.93	44.0	4.0	3.5	0.9	< 10	0.2
B41926 3 Split PREP DUP	14.07	< 5	20	5	5	10	0.39	< 2	20.1	4.9	80	36.0	28	4.2	2.2	0.1	0.96	39.1	4.7	3.0	0.7	< 10	0.3
Method Blank	< 0.01						< 0.01										0.18						
Method Blank	0.02						0.04										0.05						
Method Blank	< 0.01						< 0.01										< 0.01						

Analyte Symbol	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS- Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS- Na2O2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS- Na2O2	FUSMSNa2O 2	FUSMSNa2O 2	FUS- Na2O2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2
PTM-1a Meas									> 10000														
PTM-1a Cert									474400 .00														
DTS-2b Meas				49.06									36.53			17.1							
DTS-2b Cert				49.4									39.4			18.4							
Oreas 74a (Fusion) Meas				27.81					> 10000				32.21			15.1							
Oreas 74a (Fusion) Cert				27.9					32400.00				32.4			15.1							
MP-1b Meas						256				> 5000			35.06			16.4		> 10000					
MP-1b Cert						285				20900			35.91			16.7		16100					
NCS DC8631 5 Meas	3.93			0.09									75.10										
NCS DC8631 5 Cert	4.11			0.09									72.3										

NCS DC8631 4 Meas	7.95			0.02							56.57									
NCS DC8631 4 Cert	7.75			0.02 7							53.9 2									
CZN-4 Meas								1830					120	0.25						
CZN-4 Cert								1861.0 000					86.7	0.29 5						
OREAS 922 (Peroxide Fusion) Meas														> 30.0						
OREAS 922 (Peroxide Fusion) Cert														30.51						
OREAS 621 (Peroxide Fusion) Meas		28.5			585	22	10.5	21.8	> 5000	5.7	87.6		129	27.3			101		9.0	
OREAS 621 (Peroxide Fusion) Cert		26.1			554	14	10.4	24.2	13300	6.64	89.0		146	28.1			101		8.6	
CCU-1e Meas					104				> 5000			3.14	119						75	
CCU-1e Cert					96.0				7030			3.13	104						61.8	
OREAS 680 (Peroxide Fusion) Meas		20.0	16		1240		7.5	21.9	> 10000	2610	5.0	74.3		21	19.9	3.7		424	0.6	6.7
OREAS 680 (Peroxide Fusion) Cert		18.6	14.5		1240		5.09	20.8	21500	2580	4.99	76.0		19.7	20.6	4.26		420	0.550	6.73
OREAS 139 (Peroxide Fusion) Meas		25.6	40		6560	12			> 5000			145		60	16.6			481	0.4	7.9

OREAS 139 (Peroxide Fusion) Cert		23.1	40.4		6570	11.1				22000		145		63.0				479		0.500		7.54
OREAS 624 (Peroxide Fusion) Meas																						19.2
OREAS 624 (Peroxide Fusion) Cert																						20.5
AMIS 0346 (Peroxide Fusion) Meas																						

Analyte Symbol	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
AMIS 0346 (Peroxide Fusion) Cert																							
NCS DC73520 Meas	0.61			4.08									56.15										
NCS DC73520 Cert	0.66			4.37									57.47										
OREAS 148 (Peroxide Fusion) Meas		486	4470		370	11	1654.1	236			77.3	1380		16		> 30.0	32.7	1190	182		2.1		51.7
OREAS 148		478	4760		380	10	1680.0	260			82.0	1360		16		36.0	34.3	1160	209		1.6		51.0

(Fusion) Meas									
Oreas 74a (Fusion) Cert									
MP-1b Meas					1130				> 10000
MP-1b Cert					1100.0 00				167000
NCS DC86315 Meas	0.04								
NCS DC86315 Cert	0.039								
NCS DC86314 Meas	0.03								
NCS DC86314 Cert	0.029								
CZN-4 Meas									> 10000 550700 .00
CZN-4 Cert									
OREAS 922 (Peroxide Fusion) Meas									
OREAS 922 (Peroxide Fusion) Cert									
OREAS 621 (Peroxide Fusion) Meas		2.3		3.0	33	2.8	12.5	1.2	> 10000
OREAS 621 (Peroxide Fusion) Cert		2.0		3.0	36.3	2.6	13.9	1.03	52200
CCU-1e Meas		2.8							> 10000
CCU-1e Cert		2.69							30200
OREAS 680 (Peroxide Fusion) Meas				1.7	232		15.1	1.3	2550
OREAS 680 (Peroxide Fusion)				1.55	224		16.2	1.52	2320

Cert									
OREAS 139 (Peroxide Fusion) Meas		33.8		13.7			13.1		> 10000
OREAS 139 (Peroxide Fusion) Cert		35.4		12.2			17.1		133600.00
OREAS 624 (Peroxide Fusion) Meas									
OREAS 624 (Peroxide Fusion) Cert									
AMIS 0346 (Peroxide Fusion) Meas					2760				
Analyte Symbol	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS- Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
AMIS 0346 (Peroxide Fusion) Cert					2700				
NCS DC73520 Meas									
NCS DC73520 Cert									
OREAS 148 (Peroxide Fusion) Meas		11.4	0.2	8.3	55	7.3	15.6	1.4	160
OREAS 148 (Peroxide Fusion) Cert		12.3	0.2	8.6	56	6.4	19.4	1.4	160

QC

Activation Laboratories Ltd.

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B419219 Orig	< 0.01	7.2	< 0.1	5.9	< 5	1.4	2.6	0.2	30
B419219 Dup	< 0.01	8.1	< 0.1	6.1	< 5	0.7	3.0	0.2	40
B419235 Orig	< 0.01	3.6	2.4	6.6	< 5	1.2	162	16.7	40
B419235 Dup	< 0.01	3.5	2.0	6.1	< 5	1.0	155	16.9	60
B419250 Orig	< 0.01	3.7	< 0.1	7.7	< 5	5.8	0.5	< 0.1	100
B419250 Dup	< 0.01	3.7	< 0.1	7.0	< 5	6.2	1.0	< 0.1	110
B419260 Orig	0.04	< 0.1	< 0.1	0.3	< 5	< 0.7	1.1	0.2	< 30
B419260 Dup	0.03	< 0.1	< 0.1	0.3	< 5	< 0.7	1.2	0.1	< 30
B419261 Orig	0.01	4.6	1.6	10.0	< 5	1.2	98.5	11.6	90
B419261 Dup	0.01	4.5	1.4	10.2	< 5	1.1	89.9	10.2	100
B419263 Orig	0.02	1.5	0.4	5.9	< 5	< 0.7	33.6	2.4	80
B419263 Split PREP DUP	0.02	1.3	0.4	5.3	< 5	1.2	33.2	2.7	70
Method Blank	< 0.01								
Method Blank	< 0.01								
Method Blank	< 0.01								



Report No.: A21-20030
Report Date: 02-Nov-21
Date Submitted: 22-Oct-21
Your Reference: Campus Creek Pegmatites

Grid Metals Corp.
304-3335 Yonge St
Toronto Ontario M4N 2M1
Canada

ATTN: Dave Peck

CERTIFICATE OF ANALYSIS

14 Rock samples were submitted for analysis.

Table with 2 columns: Analytical package(s) requested and Testing Date. Row 1: UT-7-Grid, QOP Sodium Peroxide (Sodium Peroxide Fusion ICPOES + ICPMS), 2021-10-28 17:34:24

REPORT A21-20030

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Notes:



Emmanuel Esemé, 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
LabID: 266 E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

CERTIFIED BY:

Handwritten signature

Analyte Symbol	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3 (T)	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419285	9.99	< 5	< 10	21	< 3	107	0.24	< 2	6.4	0.7	100	7.1	60	0.6	0.2	< 0.1	1.00	23.3	0.2	3.3	< 0.2	< 10	< 0.2
B419292	10.68	< 5	< 10	6	< 3	3	0.20	< 2	2.2	0.6	60	24.6	14	2.9	0.6	< 0.1	0.92	38.1	2.1	4.9	0.4	20	< 0.2
B419293	15.90	< 5	< 10	5	< 3	< 2	0.19	< 2	10.1	0.6	50	20.3	32	0.9	0.3	< 0.1	0.57	31.5	0.7	3.3	< 0.2	< 10	< 0.2
B419312	14.25	< 5	< 10	13	< 3	< 2	0.26	< 2	17.3	1.1	80	15.5	< 2	4.2	1.2	< 0.1	1.24	47.2	3.0	3.8	0.6	< 10	< 0.2
B419314	15.04	< 5	< 10	6	< 3	< 2	0.39	< 2	27.1	1.5	90	17.3	6	3.9	1.4	< 0.1	0.78	37.5	2.2	3.4	0.9	< 10	< 0.2
B419324	13.13	< 5	< 10	12	< 3	< 2	0.32	< 2	10.2	0.9	70	10.4	7	4.1	2.3	< 0.1	0.95	25.7	2.6	3.2	0.7	< 10	< 0.2
B419324 A	17.13	6	10	21	119	3	0.28	3	1.3	2.4	120	71.6	27	< 0.3	< 0.1	< 0.1	1.32	15.4	< 0.1	7.5	< 0.2	< 10	< 0.2
B419326	17.53	6	< 10	9	< 3	16	0.21	< 2	12.2	1.8	70	35.8	14	2.2	0.2	< 0.1	2.53	56.8	3.2	4.0	< 0.2	< 10	0.3
B419328	14.08	< 5	< 10	7	< 3	11	0.19	< 2	0.9	< 0.2	70	34.4	5	< 0.3	< 0.1	< 0.1	0.57	26.1	< 0.1	3.4	< 0.2	< 10	< 0.2
B419332	15.19	< 5	< 10	12	3	< 2	0.22	< 2	1.3	0.4	70	26.5	< 2	0.9	0.4	0.1	1.13	64.7	1.0	3.2	< 0.2	< 10	0.2
B419333	17.66	< 5	< 10	27	4	6	0.45	< 2	8.7	0.3	60	12.6	10	3.7	0.9	< 0.1	0.92	51.0	2.0	3.8	0.5	< 10	< 0.2
B419334	13.87	< 5	< 10	27	< 3	< 2	0.17	< 2	0.9	< 0.2	60	43.3	5	< 0.3	< 0.1	< 0.1	0.58	28.4	< 0.1	3.7	< 0.2	< 10	< 0.2
B419335	10.29	< 5	< 10	12	< 3	< 2	0.23	< 2	3.3	3.1	140	24.9	6	2.1	1.9	< 0.1	1.50	35.8	2.6	3.6	0.3	< 10	0.2
B419335 A	0.23	< 5	< 10	6	< 3	< 2	0.10	< 2	1.9	0.9	60	0.4	19	< 0.3	0.1	< 0.1	0.49	0.5	< 0.1	0.9	< 0.2	< 10	< 0.2

Results

Activation Laboratories Ltd.

Report: A21-20030

Analyte Symbol	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2
B419285	5.70	3.7	21	0.02	84	5	23.3	4.5	50	42.7	0.9	771	82.99	< 2	34	> 30.0	1.0	2.1	20	4.9	0.2	17	2.3
B419292	4.26	1.3	9	< 0.01	527	6	22.2	0.7	< 10	23.7	0.3	784	83.18	< 2	29	> 30.0	0.6	2.0	14	15.1	0.6	< 6	2.8
B419293	9.57	4.0	20	< 0.01	194	3	19.2	6.0	< 10	58.2	1.2	1740	62.65	< 2	< 8	29.3	1.5	2.6	20	4.1	0.3	7	2.0
B419312	4.72	6.3	50	0.05	913	4	74.4	8.7	20	25.0	2.0	914	78.03	< 2	< 8	> 30.0	3.5	13.4	16	8.0	0.8	< 6	3.4
B419314	5.68	9.3	14	< 0.01	647	6	42.6	13.2	60	44.0	2.9	862	81.89	< 2	< 8	> 30.0	2.8	2.3	17	5.0	0.6	< 6	8.3
B419324	6.15	3.9	57	0.02	673	4	82.6	4.0	20	27.9	1.0	1130	84.22	< 2	12	> 30.0	2.5	2.3	16	14.8	0.5	11	4.1
B419324 A	2.76	0.8	7310	0.02	725	5	44.2	0.6	60	19.3	0.1	647	79.00	< 2	< 8	> 30.0	< 0.1	152	38	20.9	< 0.1	7	0.3
B419326	9.34	5.2	358	0.08	667	2	241.3	6.3	< 10	48.4	1.4	2050	76.62	< 2	< 8	> 30.0	2.8	20.9	17	78.0	0.4	< 6	4.6
B419328	9.17	0.9	27	< 0.01	41	3	6.5	0.8	< 10	63.4	< 0.1	2060	78.19	< 2	< 8	> 30.0	< 0.1	2.1	16	2.6	< 0.1	< 6	< 0.1
B419332	7.42	0.8	33	0.04	244	2	44.2	0.6	10	50.0	0.1	1290	80.68	< 2	28	> 30.0	< 0.1	27.6	12	10.6	0.2	7	0.1
B419333	4.62	3.7	16	0.08	257	2	25.0	2.8	10	43.2	0.8	638	71.29	< 2	< 8	> 30.0	1.7	6.5	24	10.6	0.6	7	4.2
B419334	10.18	< 0.4	7	0.01	50	2	5.9	< 0.4	< 10	58.6	< 0.1	1420	80.91	< 2	27	> 30.0	0.2	1.5	26	2.8	< 0.1	< 6	0.2
B419335	3.49	1.5	43	0.04	1490	7	27.5	1.7	160	21.5	0.6	609	89.32	< 2	34	> 30.0	3.5	18.6	23	18.4	0.8	< 6	1.0
B419335 A	0.09	1.1	19	< 0.01	67	3	< 2.4	1.3	20	13.3	0.2	2.4	86.99	< 2	< 8	> 30.0	< 0.1	1.0	15	0.4	< 0.1	12	0.7

Analyte Symbol	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419285	< 0.01	3.9	< 0.1	1.3	8	2.3	6.6	0.2	60
B419292	< 0.01	4.7	0.1	2.9	< 5	2.9	23.3	0.8	40
B419293	< 0.01	11.8	< 0.1	2.0	< 5	1.2	7.9	0.5	< 30
B419312	0.01	5.4	0.2	2.0	< 5	2.3	27.5	1.5	50
B419314	< 0.01	5.3	0.4	1.2	< 5	1.2	24.6	2.8	< 30
B419324	< 0.01	6.7	0.3	7.4	< 5	2.4	28.5	2.8	80
B419324A	< 0.01	3.8	< 0.1	6.2	< 5	9.7	0.9	< 0.1	100
B419326	0.08	11.7	< 0.1	1.2	8	3.5	11.4	0.6	80
B419328	< 0.01	13.3	< 0.1	0.6	6	< 0.7	0.8	< 0.1	60
B419332	0.02	7.0	< 0.1	0.4	6	0.8	6.1	< 0.1	60
B419333	0.02	4.4	0.2	2.3	7	2.9	27.4	1.3	30
B419334	< 0.01	8.2	< 0.1	0.5	6	1.9	0.9	< 0.1	40
B419335	0.02	3.0	0.2	0.5	< 5	1.0	22.0	1.1	30
B419335A	0.04	< 0.1	< 0.1	0.2	< 5	< 0.7	0.7	0.3	< 30

Analyte Symbol	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3 (T)	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
PTM-1a Meas		2170								> 5000			> 10000										
PTM-1a Cert		2200								20500.00			249600.00										
PTM-1a Meas		2090								> 5000			> 10000										
PTM-1a Cert		2200								20500.00			249600.00										
NIST 696 Meas	53.02						0.03				340						8.29						
NIST 696 Cert	54.5						0.018				321.0						8.70						
Oreas 74a (Fusion) Meas	2.29	48								581	1890		1320										
Oreas 74a (Fusion) Cert	2.21	50								581			1240.00										
Oreas 74a (Fusion) Meas		51								554	1820		1320										
Oreas 74a (Fusion) Cert		50								581			1240.00										
NCS DC8631 5 Meas	14.53						0.77										0.62						
NCS DC8631 5 Cert	14.5						0.71										0.68						
NCS DC8631 4 Meas	24.59						0.12										0.26						
NCS DC8631 4 Cert	24.5						0.063										0.30						
CZN-4 Meas		361						2630		97.4			4370										

CZN-4 Cert		356.00 00					2604.0 000	93.5			4030.0 00												
CZN-4 Meas		353					2610	97.9			4170												
CZN-4 Cert		356.00 00					2604.0 000	93.5			4030.0 00												
OREAS 183 (Fusion ICP) Meas	1.57						0.68																
OREAS 183 (Fusion ICP) Cert	1.60						0.720																
OREAS 922 (Peroxid e Fusion) Meas				514		12		89.1	25.0	140	9.8	2500	5.7	2.7	1.3		21.1	6.9		0.9	< 10	0.3	
OREAS 922 (Peroxid e Fusion) Cert				481		11		88.0	20.9	90	7.5	2220	5.75	3.38	1.52		21.2	6.94		1.20	5.93	0.3	
OREAS 621 (Peroxid e Fusion) Meas		84		2590	< 3	4		302	53.7	29.1	130	3.7	3960				21.2					2.2	
OREAS 621 (Peroxid e Fusion) Cert		85		2610	2	4		295	52.0	31.4	49	3.6	3680				26.5					1.9	
CCU-1e Meas		1130						74		318			> 10000										
CCU-1e Cert		1010						74.2		301			229000										
OREAS 680 (Peroxid e Fusion) Meas																							
OREAS 680 (Peroxid e Fusion) Cert																							

OREAS 139		324			4	6		277	47.3	25.8		3.0	298		1.4			8.6				0.8	
Analyte Symbol	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3 (T)	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
(Peroxide Fusion) Meas																							
OREAS 139 (Peroxide Fusion) Cert		332			3.17	6.64		296	49.4	26.0		3.21	274		1.69			10.2					0.690
OREAS 624 (Peroxide Fusion) Meas		121		1060		20		133	32.6	283		1.8	> 10000					23.5					3.8
OREAS 624 (Peroxide Fusion) Cert		115		1070		21.3		133	32.9	273		1.32	30800					22.1					4.14
OREAS 124 (Peroxide Fusion) Meas																							
OREAS 124 (Peroxide Fusion) Cert																							
AMIS 0346 (Peroxide Fusion) Meas																							
AMIS 0346 (Peroxide Fusion) Cert																							
NCS DC73520 Meas	5.15						17.80																
NCS DC73520 Cert	5.20						18.13																

OREAS 148 (Peroxide Fusion) Meas																								
OREAS 148 (Peroxide Fusion) Cert																								
B419312 Orig	14.18	< 5	< 10	14	< 3	< 2	0.24	< 2	17.5	0.9	80	14.9	5	4.3	1.3	< 0.1	1.25	44.8	2.9	3.8	0.6	< 10	0.2	
B419312 Dup	14.32	< 5	< 10	13	< 3	< 2	0.28	< 2	17.1	1.3	80	16.2	< 2	4.2	1.1	< 0.1	1.24	49.5	3.1	3.8	0.7	< 10	< 0.2	
B419334 Orig	13.23	< 5	< 10	28	< 3	< 2	0.19	< 2	0.9	< 0.2	60	45.9	6	< 0.3	0.1	< 0.1	0.54	30.3	0.2	3.9	< 0.2	< 10	< 0.2	
B419334 Dup	14.52	< 5	< 10	26	< 3	< 2	0.16	< 2	0.9	1.7	50	40.7	3	< 0.3	< 0.1	< 0.1	0.61	26.6	< 0.1	3.6	< 0.2	< 10	< 0.2	
B419335 A Orig	0.23	< 5	< 10	6	< 3	< 2	0.11	< 2	2.1	0.9	70	0.5	11	< 0.3	0.1	< 0.1	0.50	0.4	< 0.1	0.7	< 0.2	< 10	< 0.2	
B419335 A Dup	0.23	< 5	< 10	5	< 3	< 2	0.09	< 2	1.8	0.9	60	0.4	27	< 0.3	0.1	< 0.1	0.47	0.6	< 0.1	1.1	< 0.2	< 10	< 0.2	
Method Blank	< 0.01						0.03										< 0.01							
Method Blank	< 0.01	< 5	< 10	3	< 3	< 2	0.06	< 2	< 0.8	0.9	60	0.2	< 2	< 0.3	< 0.1	< 0.1	< 0.01	< 0.2	< 0.1	< 0.7	< 0.2	< 10	< 0.2	

Analyte Symbol	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
PTM-1a Meas									> 10000														
PTM-1a Cert									474400 .00														
PTM-1a Meas									> 10000														
PTM-1a Cert									474400 .00														
NIST 696 Meas	0.09			0.01									3.86										
NIST 696 Cert	0.0090			0.012									3.79										
Oreas 74a (Fusion) Meas				28.47					> 10000				34.78			16.3							
Oreas 74a (Fusion) Cert				27.9					32400 .00				32.4			15.14							

Oreas 74a (Fusion) Meas									32400.00											
Oreas 74a (Fusion) Cert																				
NCS DC8631 5 Meas	4.30			0.08									74.73							
NCS DC8631 5 Cert	4.11			0.093									72.3							
NCS DC8631 4 Meas	7.94			0.02									56.74							
NCS DC8631 4 Cert	7.75			0.027									53.9							
CZN-4 Meas									1750				118	0.27						
CZN-4 Cert									1861.0 000				86.7	0.29						
CZN-4 Meas									1810				82							
CZN-4 Cert									1861.0 000				86.7							
OREAS 183 (Fusion ICP) Meas				26.54									44.83							
OREAS 183 (Fusion ICP) Cert				27.43									44.1							
OREAS 922 (Peroxide Fusion) Meas		46.9	32		877	20.6	41.2	50	69.8	10.6	182			7.3	12.8	67	1.9	1.0		18.0
OREAS 922 (Peroxide Fusion) Cert		45.6	29		880	15.2	38.9	40	64.0	10.6	167			7.31	10.0	58.0	1.3	1.02		17.7
OREAS 621		26.9			550	16	12.4	24.5	> 5000	5.8	82.5		151	28.7		100				9.1

(Peroxide Fusion) Meas																								
OREAS 621 (Peroxide Fusion) Cert		26.1			554	14	10.4	24.2		13300	6.64	89.0		146		28.1			101					8.6
CCU-1e Meas					102					> 5000			3.38	122									49	
CCU-1e Cert					96.0					7030			3.13	104									61.8	
OREAS 680 (Peroxide Fusion) Meas																21.0								
OREAS 680 (Peroxide Fusion) Cert																20.6								
OREAS 139 (Peroxide Fusion)		23.1	42		6300	13				> 5000		146		64		16.9			454			0.4		8.3

Analyte Symbol	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th	
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1	
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
Meas																								
OREAS 139 (Peroxide Fusion) Cert		23.1	40.4		6570	11.1				22000		145		63.0		16.34			479		0.500		7.54	
OREAS 624 (Peroxide Fusion) Meas		17.5	14		629	17	7.3	15.7		> 5000	3.7	34.9		72		19.8			49				3.7	
OREAS 624 (Peroxide Fusion) Cert		17.3	10.3		660	17.8	5.78	16.8		6120	4.27	33.0		72.0		20.5			47.6				4.12	

Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
PTM-1a Meas									
PTM-1a Cert									
PTM-1a Meas									
PTM-1a Cert									
NIST 696 Meas	2.48				405				
NIST 696 Cert	2.64				403.00 00				
Oreas 74a (Fusion) Meas									
Oreas 74a (Fusion) Cert									
Oreas 74a (Fusion) Meas									
Oreas 74a (Fusion) Cert									
NCS DC86315 Meas	0.04								
NCS DC86315 Cert	0.039								
NCS DC86314 Meas	0.03								
NCS DC86314 Cert	0.029								
CZN-4 Meas									> 10000
CZN-4 Cert									550700
CZN-4 Meas									> 10000
CZN-4 Cert									550700 .00
OREAS 183 (Fusion ICP) Meas	0.02								
OREAS 183 (Fusion ICP) Cert	0.020								

OREAS 922 (Peroxide Fusion) Meas		0.7	0.6	3.6	95		32.1	3.2	320
OREAS 922 (Peroxide Fusion) Cert		0.9	0.510	3.6	92.0		31.1	3.17	280
OREAS 621 (Peroxide Fusion) Meas		1.8		3.0	41	5.2	14.0	1.8	> 10000
OREAS 621 (Peroxide Fusion) Cert		2.0		3.0	36.3	2.6	13.9	1.03	52200
CCU-1e Meas		2.6							> 10000
CCU-1e Cert		2.69							30200
OREAS 680 (Peroxide Fusion) Meas									
OREAS 680 (Peroxide Fusion) Cert									
OREAS 139 (Peroxide Fusion) Meas		33.3		12.7			14.9		> 10000
Analyte Symbol	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
OREAS 139 (Peroxide Fusion) Cert		35.4		12.2			17.1		133600 .00
OREAS 624 (Peroxide Fusion) Meas		0.8		1.3	32	5.6	15.9	1.9	> 10000

OREAS 624 (Peroxide Fusion) Cert		0.940		1.34	43.3	4.58	17.3	1.94	24100
OREAS 124 (Peroxide Fusion) Meas									
OREAS 124 (Peroxide Fusion) Cert									
AMIS 0346 (Peroxide Fusion) Meas					3000				
AMIS 0346 (Peroxide Fusion) Cert					2700				
NCS DC73520 Meas									
NCS DC73520 Cert									
OREAS 148 (Peroxide Fusion) Meas									
OREAS 148 (Peroxide Fusion) Cert									
B419312 Orig	0.01	5.5	0.3	2.1	< 5	2.1	27.7	1.4	50
B419312 Dup	0.01	5.3	0.2	2.0	< 5	2.6	27.3	1.5	50
B419334 Orig	< 0.01	8.0	< 0.1	0.6	6	2.1	0.9	< 0.1	40
B419334 Dup	< 0.01	8.4	< 0.1	0.5	6	1.7	1.0	< 0.1	40
B419335A Orig	0.04	< 0.1	< 0.1	0.2	< 5	1.1	0.5	0.3	< 30
B419335A Dup	0.04	< 0.1	< 0.1	0.2	< 5	< 0.7	1.0	0.2	< 30
Method Blank	< 0.01								
Method Blank	< 0.01	< 0.1	< 0.1	< 0.1	< 5	0.7	< 0.1	< 0.1	< 30



Report No.: A21-20115
 Report Date: 16-Dec-21
 Date Submitted: 25-Oct-21
 Your Reference: Campus Creek Pegmatites

Grid Metals Corp.
 304-3335 Yonge St
 Toronto Ontario M4N 2M1
 Canada

ATTN: Dave Peck

CERTIFICATE OF ANALYSIS

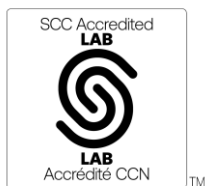
59 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
UT-7-Grid	QOP Sodium Peroxide (Sodium Peroxide Fusion ICPOES + ICPMS)	2021-11-23 14:08:35

REPORT A21-20115

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:



CERTIFIED BY:

Emmanuel Esemé, 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
 LabID: 266 E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Results

Activation Laboratories Ltd.

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Analyte Symbol	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3 (T)	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419265	13.49	8	30	5	<3	4	0.14	<2	72.0	2.9	110	11.7	17	41.9	33.3	<0.1	2.63	26.0	15.4	3.6	9.5	<10	<0.2
B419266	12.52	<5	30	<3	<3	<2	0.12	<2	19.1	0.9	50	10.8	43	2.4	1.5	<0.1	1.15	32.3	2.7	2.4	0.5	10	<0.2
B419267	12.12	<5	30	8	<3	15	<0.01	<2	4.0	1.8	70	16.3	10	0.8	0.4	<0.1	1.02	31.5	1.1	2.6	<0.2	10	<0.2
B419268	10.93	<5	30	7	<3	<2	0.08	<2	25.9	2.9	110	23.7	52	4.2	1.7	<0.1	1.96	37.3	4.1	2.9	0.7	<10	0.3
B419269	13.92	<5	30	7	4	<2	0.22	<2	46.9	2.0	70	45.4	10	11.2	2.8	<0.1	1.88	58.8	14.2	2.5	1.3	20	0.5
B419270	9.66	40	50	1810	31	12	1.30	<2	950	7.9	150	243	322	7.7	2.3	8.8	5.01	20.4	18.3	5.3	1.0	<10	3.0
B419271	14.51	<5	<10	37	<3	27	<0.01	<2	3.3	2.3	70	11.8	11	0.4	0.3	<0.1	0.55	23.5	0.6	2.3	<0.2	<10	<0.2
B419272	14.84	<5	30	8	4	2	0.34	<2	18.2	2.0	40	7.9	20	17.3	14.8	<0.1	1.72	27.4	5.2	3.1	4.0	10	<0.2
B419273	6.55	<5	30	3	<3	50	<0.01	<2	1.1	1.0	80	18.4	8	<0.3	0.2	<0.1	0.70	19.3	0.2	2.5	<0.2	10	<0.2
B419274	13.92	<5	30	<3	3	<2	0.10	<2	45.6	2.4	110	11.8	7	7.3	2.6	<0.1	1.33	62.7	7.6	2.7	1.0	10	0.5
B419275	2.94	<5	30	9	<3	<2	<0.01	<2	<0.8	1.0	90	3.1	16	<0.3	<0.1	0.1	0.85	8.3	0.3	2.1	<0.2	<10	<0.2
B419276	12.54	<5	30	6	<3	2	<0.01	<2	2.8	1.2	50	6.8	7	0.9	0.3	<0.1	0.73	23.4	0.6	2.0	<0.2	<10	<0.2
B419277	11.34	10	<10	78	<3	<2	0.54	<2	9.1	3.9	110	8.5	16	3.0	0.9	<0.1	1.03	24.8	2.2	2.6	0.3	<10	<0.2
B419278	11.90	<5	30	27	<3	<2	0.21	<2	10.1	1.1	100	8.1	7	1.4	0.8	<0.1	0.78	23.3	1.0	1.4	0.3	10	<0.2
B419279	12.59	<5	30	40	<3	<2	0.10	<2	4.3	2.1	90	15.8	10	1.3	0.7	<0.1	0.75	20.4	1.2	1.8	<0.2	<10	<0.2
B419280	18.08	6	40	18	110	2	0.08	<2	<0.8	1.4	70	61.5	20	<0.3	<0.1	<0.1	1.46	17.3	<0.1	5.6	<0.2	<10	<0.2
B419281	13.37	<5	30	15	<3	<2	0.04	<2	3.5	0.8	60	14.3	<2	0.9	0.4	<0.1	0.49	25.9	1.1	2.3	<0.2	<10	<0.2
B419282	8.87	<5	30	18	<3	<2	<0.01	<2	2.8	1.4	60	9.8	5	<0.3	<0.1	<0.1	0.63	20.8	0.6	2.3	<0.2	<10	<0.2
B419283	14.05	<5	30	8	<3	<2	0.18	<2	31.5	2.3	120	7.9	2	3.0	1.1	<0.1	1.28	56.9	4.5	2.5	0.5	10	0.3
B419284	9.84	<5	30	14	<3	<2	0.07	<2	4.7	2.4	120	8.3	6	0.6	0.4	<0.1	0.67	21.5	0.7	2.4	<0.2	<10	<0.2
B419286	13.17	<5	20	22	<3	87	0.08	<2	3.9	1.1	100	7.3	13	1.2	0.6	<0.1	0.72	23.0	0.8	1.7	<0.2	<10	<0.2
B419287	12.00	<5	30	5	<3	14	0.11	<2	18.5	3.1	70	7.4	11	1.5	0.4	<0.1	1.18	29.0	1.5	2.0	<0.2	<10	<0.2
B419288	15.44	<5	30	4	<3	2	0.02	<2	14.9	0.8	60	14.3	10	1.4	0.3	<0.1	1.26	63.7	2.1	2.7	<0.2	<10	0.5

Results

Activation Laboratories Ltd.

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B419289	12.20	< 5	30	4	6	17	0.09	< 2	62.0	1.1	70	57.0	10	14.4	8.2	< 0.1	2.40	82.4	11.4	5.3	2.4	20	0.4
B419290	0.23	< 5	30	< 3	< 3	< 2	< 0.01	< 2	1.9	0.9	< 30	0.2	10	< 0.3	0.1	< 0.1	0.50	0.9	0.2	1.1	< 0.2	< 10	< 0.2
B419291	12.19	< 5	30	43	< 3	< 2	0.23	< 2	13.8	2.5	50	6.4	64	4.6	0.8	< 0.1	1.18	27.8	4.9	2.1	0.4	< 10	< 0.2
B419294	14.72	< 5	30	< 3	4	8	0.15	< 2	36.9	0.7	60	18.5	8	7.6	4.7	< 0.1	1.07	35.9	5.6	2.9	1.8	< 10	< 0.2
B419295	14.46	< 5	30	4	< 3	< 2	< 0.01	< 2	4.2	1.1	40	31.9	5	0.7	0.2	< 0.1	0.42	27.0	0.8	2.2	< 0.2	< 10	< 0.2
B419296	17.09	< 5	30	8	< 3	< 2	< 0.01	< 2	7.8	0.8	40	23.8	5	< 0.3	< 0.1	< 0.1	0.37	35.9	0.8	2.3	< 0.2	< 10	< 0.2
B419297	15.31	< 5	30	< 3	< 3	< 2	0.10	< 2	31.4	0.9	50	12.0	6	9.9	2.7	< 0.1	1.31	47.0	6.7	3.7	1.4	< 10	< 0.2
B419298	15.20	< 5	< 10	6	< 3	19	0.17	< 2	19.0	1.1	40	7.3	7	2.8	1.3	< 0.1	1.00	31.8	3.5	2.1	0.6	< 10	0.2
B419299	14.76	< 5	40	< 3	5	2	0.14	< 2	15.9	0.5	40	63.4	< 2	2.9	0.8	< 0.1	1.27	59.5	3.3	3.5	< 0.2	< 10	0.4
B419300	8.81	44	60	1790	31	13	1.42	< 2	988	7.1	100	254	275	8.1	2.5	9.2	4.57	15.1	21.8	4.6	0.9	< 10	3.5
B419301	11.94	< 5	30	4	< 3	< 2	0.02	< 2	16.4	1.3	40	16.6	35	3.3	1.1	< 0.1	0.89	29.6	3.4	2.3	0.5	< 10	< 0.2
B419302	13.31	< 5	40	89	< 3	< 2	13.78	< 2	9.3	63.8	250	1.9	825	3.3	2.8	0.6	17.72	20.5	4.0	2.3	0.7	< 10	0.2
B419303	13.55	< 5	30	4	< 3	< 2	< 0.01	< 2	27.2	0.8	170	33.9	8	4.7	2.2	< 0.1	0.75	31.3	3.8	2.4	0.8	< 10	< 0.2
B419304	14.29	< 5	< 10	< 3	< 3	3	< 0.01	< 2	18.6	1.3	40	29.8	20	7.2	2.7	< 0.1	0.82	26.8	4.0	2.9	1.1	< 10	< 0.2
B419305	15.98	< 5	30	8	3	3	0.02	< 2	16.8	0.6	40	22.5	14	2.5	1.1	< 0.1	0.81	43.4	3.5	3.2	0.3	< 10	< 0.2
B419306	14.90	< 5	30	5	4	2	0.09	< 2	26.6	1.1	70	11.9	15	3.6	0.6	< 0.1	1.11	56.2	4.9	2.9	0.3	< 10	< 0.2
B419307	16.12	5	30	4	< 3	< 2	< 0.01	< 2	36.2	0.2	40	35.1	4	1.4	0.5	< 0.1	0.58	35.9	5.5	2.8	< 0.2	< 10	< 0.2
B419308	14.53	< 5	30	7	3	< 2	< 0.01	< 2	13.4	0.4	40	18.5	24	6.6	4.1	< 0.1	1.20	41.4	4.8	2.3	1.3	< 10	< 0.2
B419309	16.12	< 5	30	7	< 3	< 2	< 0.01	< 2	7.7	0.3	< 30	12.5	4	0.9	0.3	< 0.1	0.68	46.0	1.9	2.3	< 0.2	< 10	< 0.2
B419310	16.64	6	40	18	119	2	0.06	< 2	< 0.8	1.3	40	67.8	15	< 0.3	< 0.1	< 0.1	1.28	17.0	0.2	6.6	< 0.2	< 10	< 0.2
B419311	13.42	< 5	30	7	< 3	4	0.01	< 2	9.5	0.9	50	21.2	8	1.1	0.3	< 0.1	0.52	36.8	2.3	2.8	< 0.2	< 10	< 0.2
B419313	15.21	< 5	30	22	4	< 2	0.26	< 2	23.4	1.5	50	5.6	18	4.6	1.5	< 0.1	0.94	42.8	3.4	3.0	0.8	< 10	< 0.2
B419315	13.90	< 5	20	4	< 3	< 2	0.04	< 2	16.5	0.8	40	27.7	8	3.0	0.9	< 0.1	0.76	37.1	4.1	3.3	0.5	< 10	< 0.2
B419316	11.84	< 5	30	14	4	26	0.43	< 2	15.2	0.8	60	16.4	10	5.0	2.6	< 0.1	0.99	40.6	4.1	2.2	1.1	< 10	< 0.2
B419317	12.83	< 5	30	98	< 3	< 2	0.08	< 2	3.5	0.3	50	12.6	7	1.3	0.8	< 0.1	0.74	23.8	0.9	1.2	< 0.2	< 10	< 0.2
B419318	13.09	< 5	30	33	< 3	< 2	0.31	< 2	13.8	1.6	60	26.5	19	4.5	1.8	< 0.1	1.14	42.0	5.0	2.9	0.4	< 10	< 0.2

Analyte Symbol	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3 (T)	Ga	Gd	Ge	Ho	Hf	In
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Results

Activation Laboratories Ltd.

Report: A21-20115

Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419319	12.67	< 5	30	6	4	16	0.66	< 2	12.8	0.7	50	18.5	13	5.4	3.4	< 0.1	0.98	31.6	3.7	2.1	1.1	< 10	< 0.2
B419320	0.23	< 5	30	8	< 3	< 2	< 0.01	< 2	2.8	1.0	50	3.4	18	< 0.3	< 0.1	< 0.1	0.48	0.4	0.3	0.9	< 0.2	< 10	< 0.2
B419321	8.33	< 5	30	5	< 3	< 2	0.39	< 2	6.4	1.0	60	3.8	9	1.2	0.8	< 0.1	1.02	16.5	0.7	1.7	< 0.2	< 10	< 0.2
B419322	13.77	< 5	30	138	< 3	< 2	0.27	< 2	13.0	< 0.2	50	8.9	14	3.1	0.9	0.3	0.83	41.3	3.9	2.5	0.4	< 10	< 0.2
B419323	16.78	< 5	30	9	< 3	< 2	0.21	< 2	28.5	0.7	60	52.8	33	2.7	1.1	< 0.1	0.91	54.1	3.7	2.6	0.4	< 10	< 0.2
B419325	13.96	< 5	< 10	4	4	< 2	0.17	< 2	19.2	0.9	80	22.8	14	1.9	1.0	< 0.1	1.28	61.6	3.2	2.8	0.4	< 10	0.3
B419327	16.47	< 5	20	3	< 3	< 2	0.07	< 2	0.9	0.5	110	37.9	6	0.4	< 0.1	< 0.1	0.35	33.6	0.4	3.0	< 0.2	< 10	< 0.2
B419329	13.99	< 5	< 10	6	3	41	0.38	< 2	19.0	1.4	50	14.3	16	3.6	2.2	< 0.1	0.81	28.1	4.3	2.8	0.5	< 10	< 0.2
B419330	9.09	47	10	1860	31	12	1.27	< 2	1020	7.2	120	221	292	7.1	2.1	7.9	4.67	24.6	21.9	6.7	1.1	< 10	3.2
B419331	14.19	< 5	< 10	< 3	4	58	0.27	< 2	14.0	0.4	50	14.1	12	2.5	1.1	< 0.1	0.94	41.0	2.6	2.9	0.4	< 10	< 0.2

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Analyte Symbol	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2
B419265	4.93	28.0	61	0.06	6960	7	37.2	43.8	60	49.2	10.6	744	69.57	< 2	25	> 30.0	10.6	2.2	9	3.9	4.2	< 6	27.9
B419266	3.87	7.6	84	0.02	655	< 1	58.6	9.3	20	36.3	2.5	680	72.32	< 2	10	> 30.0	3.5	4.5	13	4.6	0.4	< 6	6.5
B419267	6.68	1.4	84	0.02	186	3	24.3	1.3	30	59.6	0.4	1140	72.16	< 2	26	> 30.0	0.6	3.7	10	2.9	0.1	< 6	1.2
B419268	2.58	9.8	207	0.05	933	6	101.8	13.1	70	39.4	3.3	550	74.14	< 2	10	> 30.0	4.5	6.8	10	11.1	0.7	10	11.9
B419269	1.37	17.0	260	0.06	295	< 1	252.9	24.9	10	26.4	6.1	477	70.44	< 2	16	> 30.0	8.8	15.3	12	32.0	2.1	< 6	34.7
B419270	1.99	628	2110	0.94	395	16	1021.0	313	60	39.5	93.4	1190	74.48	10	16	> 30.0	37.3	728	259	13.6	2.2	< 6	88.6
B419271	8.54	1.9	25	0.01	125	5	8.8	1.6	40	59.9	0.6	1160	73.38	< 2	< 8	> 30.0	< 0.1	2.8	20	1.1	< 0.1	< 6	2.1
B419272	3.73	7.5	33	0.03	3760	2	32.2	7.4	20	41.6	1.9	509	72.91	< 2	21	> 30.0	3.3	1.7	14	5.6	1.4	< 6	13.8
B419273	3.78	0.7	55	0.01	94	3	10.0	0.7	20	26.0	< 0.1	773	86.82	< 2	< 8	> 30.0	0.2	5.2	8	1.4	< 0.1	< 6	0.1
B419274	4.27	16.1	126	0.05	849	8	114.2	25.3	40	28.4	6.1	910	71.16	< 2	16	> 30.0	7.7	11.2	14	9.6	1.1	< 6	14.0
B419275	1.58	0.5	18	0.01	81	3	13.2	< 0.4	20	11.5	0.1	270	85.30	< 2	< 8	> 30.0	< 0.1	1.4	11	1.6	< 0.1	< 6	0.4
B419276	6.11	1.7	17	0.03	234	2	25.7	0.9	< 10	39.8	0.2	873	79.39	< 2	10	> 30.0	0.7	2.1	13	2.3	0.3	< 6	0.9
B419277	3.85	4.1	25	0.05	815	9	17.2	3.1	60	62.8	1.0	448	86.01	< 2	< 8	> 30.0	1.5	3.1	49	4.2	0.4	< 6	6.5
B419278	6.40	5.4	18	0.04	304	4	12.0	5.8	40	42.0	1.3	723	75.62	< 2	< 8	> 30.0	1.5	0.5	29	1.6	0.2	12	8.7
B419279	6.62	2.1	14	0.02	345	5	16.4	2.1	40	52.7	0.4	936	73.79	< 2	< 8	> 30.0	0.7	1.6	16	2.4	0.2	< 6	1.9
B419280	2.59	0.5	9570	0.03	714	4	36.3	< 0.4	30	18.6	0.1	627	81.32	< 2	< 8	> 30.0	< 0.1	138	35	18.0	0.1	< 6	0.3
B419281	7.04	1.8	28	0.01	68	< 1	12.1	1.6	10	46.7	0.1	1090	69.17	< 2	11	> 30.0	0.5	2.1	21	1.6	0.1	< 6	0.9
B419282	5.14	0.7	32	0.01	68	3	12.2	1.9	60	42.0	0.4	844	77.94	< 2	< 8	> 30.0	0.5	1.8	15	1.5	< 0.1	< 6	0.8
B419283	3.56	13.6	130	0.06	808	8	80.8	14.9	60	28.1	3.6	708	72.79	< 2	< 8	> 30.0	4.9	9.4	14	7.1	0.6	< 6	11.3
B419284	4.46	2.7	23	0.01	239	8	11.0	3.8	110	32.8	0.8	1030	65.10	< 2	< 8	> 30.0	1.6	1.9	22	2.4	0.1	< 6	3.1
B419286	7.46	1.7	11	0.02	168	3	11.1	1.0	40	58.0	0.4	992	75.94	< 2	< 8	> 30.0	0.4	1.4	11	1.8	0.2	< 6	2.3
B419287	3.10	6.4	69	0.03	515	3	116.8	7.9	60	19.6	1.9	609	81.98	< 2	< 8	> 30.0	2.7	4.2	9	11.2	0.4	< 6	3.0
B419288	4.86	6.9	185	0.04	236	< 1	72.3	8.0	20	33.7	2.1	1140	71.45	< 2	< 8	> 30.0	1.4	12.3	11	4.1	0.2	< 6	4.4

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B419289	2.03	23.9	240	0.04	3240	< 1	162.2	33.7	10	21.1	8.4	984	74.18	< 2	< 8	> 30.0	13.2	43.9	15	39.4	2.1	8	15.4
B419290	< 0.01	0.8	16	< 0.01	59	< 1	2.5	0.9	< 10	10.6	0.2	2.3	96.87	< 2	< 8	> 30.0	0.2	< 0.5	7	0.2	< 0.1	< 6	0.6
B419291	4.79	4.0	47	0.09	918	< 1	46.6	4.8	< 10	34.4	1.6	626	76.31	< 2	< 8	> 30.0	4.0	2.3	35	8.0	0.7	6	4.8
B419294	4.50	16.2	55	0.03	1520	4	61.7	18.2	20	34.2	4.6	811	65.65	< 2	< 8	> 30.0	6.0	2.6	13	7.1	1.1	< 6	9.6
B419295	8.93	2.9	18	< 0.01	97	< 1	12.0	2.4	< 10	48.1	0.6	1520	68.45	< 2	22	> 30.0	0.4	1.5	10	1.6	0.1	6	0.7
B419296	9.23	2.4	21	0.01	82	< 1	16.8	2.5	< 10	48.4	0.8	1690	66.22	< 2	< 8	> 30.0	1.1	1.9	12	2.8	< 0.1	< 6	1.1
B419297	2.14	12.5	86	0.03	2160	< 1	55.7	16.6	< 10	25.1	3.7	425	77.59	< 2	29	> 30.0	5.6	3.1	12	4.5	1.2	8	5.1
B419298	2.51	7.7	94	0.03	625	6	98.0	9.5	10	21.4	2.2	462	80.80	< 2	< 8	> 30.0	3.8	6.4	9	8.8	0.4	11	4.9
B419299	2.82	6.1	297	0.05	345	< 1	85.0	7.8	< 10	11.5	2.3	847	79.83	< 2	< 8	> 30.0	3.0	14.0	11	15.4	0.5	< 6	4.9
B419300	1.84	654	2180	0.87	374	6	1036.1	337	40	32.6	105	1240	68.30	10	12	> 30.0	35.0	716	263	13.8	2.2	< 6	90.6
B419301	4.12	4.5	51	0.04	271	< 1	64.5	7.9	< 10	46.5	1.7	810	64.74	< 2	23	> 30.0	4.0	2.2	12	5.1	0.6	6	11.1
B419302	0.77	3.9	143	4.28	4020	2	4.4	6.8	150	8.0	1.4	99.1	42.17	< 2	11	19.7	2.4	3.5	95	0.2	0.5	< 6	0.3
B419303	6.76	11.1	62	0.01	798	6	61.1	14.1	< 10	43.4	3.3	1330	66.54	< 2	< 8	> 30.0	3.6	3.7	12	6.2	0.5	< 6	8.8
B419304	7.49	7.5	63	< 0.01	1030	5	31.6	8.7	< 10	40.3	2.3	1250	70.32	< 2	14	> 30.0	4.3	2.9	8	3.5	0.8	< 6	5.3
B419305	6.78	6.4	68	0.02	532	< 1	51.2	7.7	< 10	37.4	2.1	1280	74.32	< 2	< 8	> 30.0	3.6	4.6	14	10.1	0.5	< 6	4.9
B419306	2.46	10.0	137	0.03	686	1	56.4	13.5	10	20.3	3.6	530	76.40	< 2	< 8	> 30.0	3.6	5.7	9	5.8	0.7	6	5.7
B419307	8.65	13.4	64	0.01	154	< 1	37.5	19.9	< 10	45.3	5.0	1670	74.46	< 2	< 8	> 30.0	7.8	3.7	15	4.9	0.5	< 6	12.3
B419308	5.67	5.3	70	0.03	1590	< 1	68.9	8.8	< 10	38.3	1.7	1070	70.78	< 2	< 8	> 30.0	2.9	4.7	9	8.9	1.0	< 6	4.9
B419309	6.97	3.1	58	0.02	63	< 1	41.0	2.8	< 10	36.8	0.9	1140	78.62	< 2	17	> 30.0	0.5	3.6	7	6.0	0.2	< 6	2.6
B419310	2.42	< 0.4	9270	0.02	680	< 1	32.5	< 0.4	10	11.8	0.1	617	72.53	< 2	< 8	> 30.0	< 0.1	130	39	16.7	< 0.1	10	0.3
B419311	7.13	3.9	48	0.01	71	< 1	39.5	4.1	< 10	40.2	1.3	1360	72.81	< 2	< 8	> 30.0	1.2	1.8	11	5.3	0.2	< 6	4.0
B419313	2.50	7.9	11	< 0.01	1590	< 1	44.2	12.5	< 10	22.5	3.0	416	73.53	< 2	< 8	> 30.0	5.0	0.7	33	7.5	0.6	< 6	5.0
B419315	5.42	7.4	50	0.02	373	< 1	59.2	9.6	< 10	35.6	2.4	1110	71.84	< 2	23	> 30.0	3.9	5.2	10	7.0	0.8	< 6	4.7
B419316	3.34	5.0	41	0.04	770	< 1	66.6	6.8	10	36.2	1.8	690	76.07	< 2	< 8	> 30.0	3.2	3.1	20	13.7	0.8	< 6	10.4
B419317	7.27	1.2	27	0.05	158	< 1	17.3	1.1	< 10	53.1	0.2	716	72.04	< 2	< 8	> 30.0	0.6	1.6	41	2.0	0.2	< 6	5.7
B419318	6.06	5.4	54	0.08	226	3	64.4	6.8	20	44.8	1.6	1060	74.81	< 2	17	> 30.0	3.6	4.6	27	11.4	0.9	10	9.5

Analyte Symbol	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
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Results

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Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419319	2.31	4.9	37	0.05	869	< 1	42.3	5.4	< 10	32.0	1.4	484	81.88	< 2	17	> 30.0	2.5	2.4	28	7.0	0.8	< 6	10.1
B419320	< 0.01	1.1	31	0.01	67	< 1	4.2	1.0	10	9.0	0.3	6.4	96.04	< 2	12	> 30.0	< 0.1	0.5	9	0.2	< 0.1	10	0.8
B419321	0.53	3.3	28	0.03	250	< 1	34.7	1.9	20	13.4	0.6	88.4	85.60	< 2	12	> 30.0	0.6	2.0	9	3.5	0.1	6	1.5
B419322	4.66	4.1	13	0.01	764	< 1	72.0	6.4	< 10	28.2	1.7	810	74.75	< 2	< 8	> 30.0	2.9	3.0	50	18.7	0.6	< 6	6.8
B419323	6.86	9.8	227	0.06	877	< 1	62.8	16.5	20	45.0	3.9	1520	70.66	< 2	< 8	> 30.0	4.7	10.0	20	9.6	0.5	10	6.5
B419325	4.09	6.7	381	0.05	655	5	56.5	8.5	20	13.8	2.3	1410	72.75	< 2	< 8	> 30.0	4.0	30.0	13	8.3	0.4	11	3.2
B419327	10.42	0.6	20	0.01	25	2	8.4	0.4	20	46.5	0.1	2280	72.18	< 2	18	> 30.0	< 0.1	0.6	14	2.0	< 0.1	< 6	0.2
B419329	4.00	7.0	113	0.04	441	6	105.5	9.9	10	36.8	1.9	858	76.67	< 2	< 8	> 30.0	4.1	3.1	20	16.3	0.6	8	5.9
B419330	1.92	642	1970	0.88	392	9	1123.1	312	90	33.8	104	1170	76.90	10	40	> 30.0	38.4	702	268	16.1	2.6	< 6	87.8
B419331	2.62	6.0	108	0.03	343	3	58.5	6.2	< 10	26.8	1.7	631	73.89	< 2	< 8	> 30.0	1.7	7.3	8	11.3	0.5	< 6	4.3

Analyte Symbol	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419265	< 0.01	5.2	5.8	10.8	< 5	< 0.7	337	50.7	70
B419266	< 0.01	4.1	< 0.1	3.3	< 5	< 0.7	19.2	1.6	60
B419267	0.01	7.3	< 0.1	1.6	< 5	< 0.7	7.5	< 0.1	220
B419268	0.04	3.7	0.3	8.7	< 5	1.3	27.9	2.1	320
B419269	0.06	2.4	0.3	27.4	< 5	1.3	55.6	1.5	190
B419270	0.85	10.7	0.2	13.9	60	5.5	21.5	1.6	140
B419271	< 0.01	7.0	< 0.1	1.9	< 5	2.0	2.6	0.5	< 30
B419272	< 0.01	2.8	2.4	23.7	< 5	< 0.7	155	23.6	40
B419273	< 0.01	5.0	< 0.1	1.0	< 5	1.9	1.7	0.3	80
B419274	0.03	4.9	0.4	4.1	< 5	1.2	54.6	3.2	60
B419275	< 0.01	1.4	< 0.1	0.3	< 5	< 0.7	0.3	< 0.1	50
B419276	< 0.01	5.3	< 0.1	0.7	< 5	< 0.7	5.9	0.2	< 30
B419277	< 0.01	2.6	0.2	3.3	< 5	2.2	19.3	1.3	130
B419278	0.02	3.6	0.1	1.9	< 5	< 0.7	10.7	0.6	< 30
B419279	< 0.01	5.3	< 0.1	1.2	< 5	< 0.7	5.6	0.5	50
B419280	< 0.01	4.0	< 0.1	6.1	< 5	6.3	0.9	0.2	110
B419281	< 0.01	6.6	< 0.1	0.8	< 5	< 0.7	11.3	0.3	30
B419282	< 0.01	5.1	< 0.1	0.3	< 5	< 0.7	2.2	0.3	30
B419283	0.03	3.2	0.2	3.0	< 5	1.5	25.8	1.6	60
B419284	< 0.01	6.4	< 0.1	2.0	< 5	< 0.7	4.6	0.4	30
B419286	< 0.01	6.0	< 0.1	3.4	< 5	< 0.7	8.1	1.1	30
B419287	0.02	3.7	< 0.1	1.3	< 5	< 0.7	9.8	0.7	80
B419288	0.02	5.6	< 0.1	0.8	< 5	2.3	6.8	0.4	80
B419289	0.02	4.1	1.2	4.4	< 5	2.2	134	8.9	150
B419290	0.04	< 0.1	< 0.1	0.2	< 5	< 0.7	0.6	0.3	< 30
B419291	0.01	2.9	< 0.1	2.6	< 5	1.1	23.8	0.9	60
B419294	< 0.01	4.8	0.7	4.7	< 5	< 0.7	75.7	5.8	50
B419295	< 0.01	9.1	< 0.1	0.6	< 5	< 0.7	1.7	0.3	50

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B419296	< 0.01	10.6	< 0.1	0.7	< 5	< 0.7	2.6	0.2	40
B419297	< 0.01	2.4	0.3	1.3	< 5	< 0.7	77.2	1.6	110
B419298	< 0.01	2.5	0.1	4.3	< 5	2.3	22.1	0.9	90
B419299	0.02	4.2	< 0.1	3.1	< 5	1.0	14.6	0.7	120
B419300	0.78	10.8	0.3	16.2	61	5.7	23.0	1.7	140
B419301	< 0.01	4.6	0.3	4.0	< 5	< 0.7	16.1	1.7	60
B419302	0.83	0.7	0.3	0.2	303	< 0.7	21.9	2.6	230
B419303	< 0.01	8.7	0.4	4.7	< 5	< 0.7	42.4	2.6	50
B419304	< 0.01	7.4	0.6	3.2	< 5	2.5	44.7	4.4	< 30
B419305	< 0.01	7.3	< 0.1	8.8	< 5	< 0.7	19.2	0.5	90
B419306	0.01	2.4	< 0.1	2.9	< 5	1.3	17.9	0.7	80
B419307	< 0.01	10.1	< 0.1	5.5	< 5	1.0	9.2	0.3	140
B419308	0.01	6.4	0.5	5.4	< 5	< 0.7	55.3	4.6	60
B419309	0.01	6.9	< 0.1	1.7	< 5	< 0.7	5.1	0.3	30
B419310	< 0.01	4.1	< 0.1	5.6	< 5	4.9	0.6	0.1	110
B419311	< 0.01	8.2	< 0.1	2.2	< 5	< 0.7	6.4	0.2	60
B419313	< 0.01	2.6	0.3	2.0	< 5	< 0.7	31.4	1.9	30
B419315	0.02	6.4	< 0.1	3.4	< 5	< 0.7	18.3	0.7	50
B419316	0.02	4.2	0.4	17.1	< 5	1.4	34.7	3.3	50
B419317	0.03	4.3	< 0.1	1.7	< 5	< 0.7	7.5	0.6	60
B419318	0.04	7.0	0.1	10.9	< 5	2.3	30.2	1.2	70

Analyte Symbol	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419319	0.02	2.9	0.4	11.0	< 5	< 0.7	40.7	3.9	50
B419320	0.03	< 0.1	< 0.1	0.4	< 5	< 0.7	1.5	0.2	30
B419321	0.02	0.7	0.1	3.1	< 5	< 0.7	6.6	1.3	30
B419322	< 0.01	5.3	0.2	6.7	< 5	1.0	27.7	1.8	30
B419323	0.01	10.3	0.2	6.5	< 5	0.7	22.4	1.3	80
B419325	0.02	6.9	0.2	1.5	< 5	2.6	20.3	1.8	80
B419327	< 0.01	16.5	< 0.1	0.3	< 5	< 0.7	1.1	< 0.1	30
B419329	0.02	5.1	0.4	4.8	< 5	1.1	23.8	3.2	70
B419330	0.79	11.0	0.2	15.1	60	4.6	23.7	1.7	130

Results**Activation Laboratories Ltd.****Report: A21-20115**

B419331	0.01	3.8	0.2	1.8	< 5	1.0	20.4	1.1	60
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Analyte Symbol	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3 (T)	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
PTM-1a Meas		2120								> 5000			> 10000										
PTM-1a Cert		2200								20500.00			249600.00										
NIST 696 Meas	56.09						< 0.01				330						8.37						
NIST 696 Cert	54.5						0.018				321.0						8.70						
Oreas 74a (Fusion) Meas	2.18	50								530	1720		1080										
Oreas 74a (Fusion) Cert	2.21	50								581			1240.000										
Oreas 74a (Fusion) Meas		45								536	1750		1110										
Oreas 74a (Fusion) Cert		50								581			1240.000										
OREAS 101a (Fusion) Meas									1460	49.0			456	32.8	16.8	9.2			40.7		6.4		
OREAS 101a (Fusion) Cert									1396	48.8			434	33.3	19.5	8.06			43.4		6.46		
NCS DC8631 5 Meas	14.84						0.67										0.60						
NCS DC8631 5 Cert	14.5						0.71										0.68						
NCS DC8631 4 Meas	23.93						< 0.01					2610					0.26						
NCS DC8631 4	24.5						0.063					2830					0.30						



(Peroxide Fusion) Meas																								
OREAS 680 (Peroxide Fusion)		120		649		1.66		8.18	38.7	334	2140	3.94	9040	3.07	1.74	1.30		16.5	3.77			0.580		

Analyte Symbol	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3 (T)	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
Cert																							
OREAS 680 (Peroxide Fusion) Meas																							
OREAS 680 (Peroxide Fusion) Cert																							
OREAS 139 (Peroxide Fusion) Meas		330			< 3	7		278	47.8	24.8		3.2	280		1.2			10.0					0.6
OREAS 139 (Peroxide Fusion) Cert		332			3.17	6.64		296	49.4	26.0		3.21	274		1.69			10.2					0.690
OREAS 139 (Peroxide Fusion) Meas																							
OREAS 139 (Peroxide Fusion) Cert																							



OREAS 624 (Peroxide Fusion) Meas																						
OREAS 624 (Peroxide Fusion) Cert																						
OREAS 624 (Peroxide Fusion) Meas																						
OREAS 624 (Peroxide Fusion) Cert																						
OREAS 124 (Peroxide Fusion) Meas																						
OREAS 124 (Peroxide Fusion) Cert																						
AMIS 0346 (Peroxide Fusion) Meas																						
AMIS 0346 (Peroxide Fusion) Cert																						
NCS DC7352 0 Meas	5.16						19.38															
NCS DC7352 0 Cert	5.20						18.13															
OREAS 148																						



B41933 1 Orig	14.19	< 5	< 10	< 3	4	58	0.27	< 2	14.0	0.4	50	14.1	12	2.5	1.1	< 0.1	0.94	41.0	2.6	2.9	0.4	< 10	< 0.2
B41933 1 Split PREP DUP	14.00	< 5	< 10	5	3	63	0.35	< 2	15.1	0.5	70	12.0	15	3.3	1.1	< 0.1	0.92	39.6	2.9	4.1	0.4	< 10	< 0.2
B41933 1 Orig	14.22	< 5	< 10	3	4	58	0.34	< 2	13.8	0.4	60	13.0	12	2.9	1.4	< 0.1	0.94	44.2	3.0	3.0	0.4	< 10	< 0.2
B41933 1 Dup	14.15	< 5	< 10	< 3	4	59	0.21	< 2	14.2	0.4	40	15.1	12	2.1	0.7	< 0.1	0.95	37.7	2.3	2.8	0.4	< 10	< 0.2
Method Blank	< 0.01						< 0.01										0.02						
Method Blank	< 0.01						< 0.01										< 0.01						
Method Blank	0.08	< 5	30	3	< 3	< 2	< 0.01	< 2	< 0.8	< 0.2	< 30	< 0.1	5	< 0.3	< 0.1	< 0.1	< 0.01	0.4	< 0.1	< 0.7	< 0.2	< 10	< 0.2
Method Blank	0.16	< 5	30	< 3	< 3	< 2	0.02	< 2	< 0.8	0.6	40	0.1	10	< 0.3	< 0.1	< 0.1	< 0.01	< 0.2	< 0.1	< 0.7	< 0.2	< 10	< 0.2
Method Blank	0.17	< 5	< 10	< 3	< 3	< 2	< 0.01	< 2	< 0.8	0.2	40	< 0.1	9	< 0.3	< 0.1	< 0.1	< 0.01	< 0.2	< 0.1	< 0.7	< 0.2	< 10	< 0.2

Analyte Symbol	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
PTM-1a Meas									> 10000														
PTM-1a Cert									474400.00														
NIST 696 Meas	0.03			0.02									3.63										
NIST 696 Cert	0.0090			0.012									3.79										
Oreas 74a (Fusion) Meas				28.71					> 10000				32.53			15.2							
Oreas 74a (Fusion) Cert				27.9					32400.00				32.4			15.1							
Oreas 74a (Fusion) Meas									> 10000														
Oreas 74a (Fusion) Cert									32400.00														
OREAS 101a (Fusion) Meas		822			952	25		411			132						47.0				6.3		35.6
OREAS 101a (Fusion) Cert		816			964	21.9		403			134						48.8				5.92		36.6
NCS DC8631 5 Meas	3.99			0.09									71.95										
NCS DC8631 5 Cert	4.11			0.093									72.3										
NCS DC8631 4 Meas	7.56		> 10000	0.02								> 5000	55.26					144					
NCS DC8631 4 Cert	7.75		18100.00	0.027								11400	53.9					152					

NCS DC8631 4 Meas	7.78			0.02								52.40								
NCS DC8631 4 Cert	7.75			0.027								53.9 2								
CZN-4 Meas								1920						59	0.28					
CZN-4 Cert								1861.0 000						86.7	0.29 5					
OREAS 183 (Fusion ICP) Meas				26.86								40.58								
OREAS 183 (Fusion ICP) Cert				27.43								44.1 3								
OREAS 922 (Peroxid e Fusion) Meas														29.5						
OREAS 922 (Peroxid e Fusion) Cert														30.51						
OREAS 621 (Peroxid e Fusion) Meas														28.3						
OREAS 621 (Peroxid e Fusion) Cert														28.1						
CCU-1e Meas					82							3.20	107							66
CCU-1e Cert					96.0					7030		3.13	104							61.8
OREAS 680 (Peroxid e Fusion) Meas		16.4	11		1210		7.5	21.6 > 10000	2370	4.9	76.6		19	20.5	3.7		405		0.5	6.3

OREAS 680 (Peroxide Fusion) Cert		18.6	14.5		1240		5.09	20.8	21500	2580	4.99	76.0		19.7		20.6	4.26		420		0.550		6.73
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Analyte Symbol	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
OREAS 680 (Peroxide Fusion) Meas																19.1							
OREAS 680 (Peroxide Fusion) Cert																20.6							
OREAS 139 (Peroxide Fusion) Meas		21.2	35		6500	11				> 5000		139		55		16.2			485		0.4		8.1
OREAS 139 (Peroxide Fusion) Cert		23.1	40.4		6570	11.1				22000		145		63.0		16.34			479		0.500		7.54
OREAS 139 (Peroxide Fusion) Meas																16.7							
OREAS 139 (Peroxide Fusion) Cert																16.34							
OREAS 624 (Peroxide Fusion)																20.3							

B41933 1 Orig	2.68	6.0	108	0.03	334	2	56.7	6.5	20	26.7	1.8	631	74.98	< 2	17	> 30.0	1.9	7.3	11	11.1	0.5	< 6	4.4
B41933 1 Dup	2.57	6.1	108	0.03	351	3	60.4	5.9	< 10	26.8	1.7	630	72.81	< 2	< 8	> 30.0	1.6	7.3	4	11.4	0.5	< 6	4.2
Method Blank	< 0.01			< 0.01									< 0.01			< 0.01							
Method Blank	< 0.01			< 0.01									< 0.01			< 0.01							
Method Blank	0.01	< 0.4	4	< 0.01	< 3	< 1	8.8	< 0.4	< 10	0.9	< 0.1	3.7	< 0.01	< 2	< 8	< 0.01	< 0.1	< 0.5	12	< 0.2	< 0.1	12	< 0.1
Method Blank	0.03	< 0.4	< 3	< 0.01	5	1	6.4	< 0.4	10	2.8	< 0.1	3.1	< 0.01	< 2	< 8	< 0.01	< 0.1	< 0.5	12	0.5	< 0.1	6	< 0.1
Method Blank	< 0.01	< 0.4	< 3	< 0.01	3	< 1	2.8	< 0.4	10	6.3	< 0.1	1.3	0.02	< 2	< 8	0.01	< 0.1	0.9	4	< 0.2	< 0.1	< 6	< 0.1

Analyte Symbol	TiO2	Ti	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
PTM-1a Meas									
PTM-1a Cert									
NIST 696 Meas	2.48				400				
NIST 696 Cert	2.64				403.00 00				
Oreas 74a (Fusion) Meas									
Oreas 74a (Fusion) Cert									
Oreas 74a (Fusion) Meas									
Oreas 74a (Fusion) Cert									
OREAS 101a (Fusion) Meas			2.6	433	85		188	17.8	
OREAS 101a (Fusion) Cert			2.90	422	83		183	17.5	
NCS DC86315 Meas	0.04								
NCS DC86315 Cert	0.039								
NCS DC86314 Meas	0.03					71.2			
NCS DC86314 Cert	0.029					79.0			
NCS DC86314 Meas	0.02								

NCS DC86314 Cert	0.029								
CZN-4 Meas								> 10000	
CZN-4 Cert								550700 .00	
OREAS 183 (Fusion ICP) Meas	0.02								
OREAS 183 (Fusion ICP) Cert	0.020								
OREAS 922 (Peroxide Fusion) Meas									
OREAS 922 (Peroxide Fusion) Cert									
OREAS 621 (Peroxide Fusion) Meas									
OREAS 621 (Peroxide Fusion) Cert									
CCU-1e Meas		2.8						> 10000	
CCU-1e Cert		2.69						30200	
OREAS 680 (Peroxide Fusion) Meas			1.6	221		14.9	1.9	2330	
OREAS 680 (Peroxide Fusion) Cert			1.55	224		16.2	1.52	2320	

Analyte Symbol	TiO2	Ti	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
OREAS 680 (Peroxide Fusion) Meas									
OREAS 680 (Peroxide Fusion) Cert									
OREAS 139 (Peroxide Fusion) Meas		34.4		11.3			13.7		> 10000
OREAS 139 (Peroxide Fusion) Cert		35.4		12.2			17.1		133600.00
OREAS 139 (Peroxide Fusion) Meas									
OREAS 139 (Peroxide Fusion) Cert									
OREAS 624 (Peroxide Fusion) Meas									
OREAS 624 (Peroxide Fusion) Cert									
OREAS 624 (Peroxide Fusion) Meas									
OREAS 624 (Peroxide Fusion) Cert									
OREAS 124 (Peroxide Fusion)									

Meas									
OREAS 124 (Peroxide Fusion) Cert									
AMIS 0346 (Peroxide Fusion) Meas					3580				
AMIS 0346 (Peroxide Fusion) Cert					2700				
NCS DC73520 Meas									
NCS DC73520 Cert									
OREAS 148 (Peroxide Fusion) Meas									
OREAS 148 (Peroxide Fusion) Cert									
B419271 Orig	< 0.01	7.4	< 0.1	2.0	< 5	2.6	2.2	0.2	< 30
B419271 Dup	< 0.01	6.5	< 0.1	1.9	< 5	1.4	2.9	0.7	< 30
B419279 Orig	< 0.01	5.5	< 0.1	1.3	< 5	< 0.7	5.8	0.6	40
B419279 Dup	< 0.01	5.1	< 0.1	1.1	< 5	< 0.7	5.5	0.4	70
B419296 Orig	< 0.01	10.8	< 0.1	0.8	< 5	< 0.7	2.9	0.2	40
B419296 Dup	< 0.01	10.4	< 0.1	0.7	< 5	1.5	2.4	0.2	30
Analyte Symbol	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS- Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419304 Orig	< 0.01	7.6	0.6	3.1	< 5	0.8	37.9	3.6	< 30

B419304 Dup	< 0.01	7.1	0.7	3.3	< 5	4.3	51.4	5.3	40
B419316 Orig	0.02	4.2	0.4	17.0	< 5	0.7	33.4	3.2	50
B419316 Dup	0.02	4.1	0.4	17.1	< 5	2.1	36.0	3.4	60
B419319 Orig	0.02	2.9	0.4	11.0	< 5	< 0.7	40.7	3.9	50
B419319 Split PREP DUP	0.02	3.5	0.6	10.9	< 5	1.0	43.2	4.5	50
B419325 Orig	0.02	6.9	0.2	1.4	< 5	2.2	21.3	1.6	90
B419325 Dup	0.02	6.8	0.2	1.6	< 5	3.0	19.3	2.0	70
B419330 Orig	0.79	10.8	0.2	15.5	61	3.9	23.8	1.2	140
B419330 Dup	0.80	11.2	0.3	14.8	59	5.2	23.6	2.1	120
B419331 Orig	0.01	3.8	0.2	1.8	< 5	1.0	20.4	1.1	60
B419331 Split PREP DUP	0.01	3.2	0.3	2.0	< 5	1.6	25.2	1.0	70
B419331 Orig	0.01	3.5	0.2	1.8	< 5	1.0	21.0	1.1	50
B419331 Dup	0.01	4.1	0.2	1.7	< 5	0.9	19.8	1.0	60
Method Blank	< 0.01								
Method Blank	< 0.01								
Method Blank	< 0.01	< 0.1	< 0.1	0.2	< 5	4.3	< 0.1	0.2	< 30
Method Blank	< 0.01	< 0.1	< 0.1	0.3	< 5	< 0.7	0.2	< 0.1	< 30
Method Blank	< 0.01	< 0.1	< 0.1	0.2	< 5	1.0	< 0.1	0.1	< 30



Report No.: A21-21176
 Report Date: 23-Nov-21
 Date Submitted: 10-Nov-21
 Your Reference: Campus Creek Pegmatites

Grid Metals Corp.
 304-3335 Yonge St
 Toronto Ontario M4N 2M1
 Canada

ATTN: Dave Peck

CERTIFICATE OF ANALYSIS

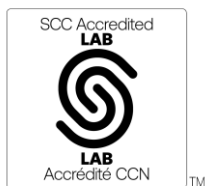
9 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
UT-7-Grid	QOP Sodium Peroxide (Sodium Peroxide Fusion ICPOES + ICPMS)	2021-11-17 12:07:20

REPORT A21-21176

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Notes:



CERTIFIED BY:

Emmanuel Esemé, 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
 LabID: 266 E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3 (T)	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419397	13.11	< 5	110	10	69	7	0.10	< 2	20.1	0.3	60	420	11	3.9	1.2	< 0.1	1.12	45.0	3.3	3.9	0.4	< 10	< 0.2
B419398	19.36	6	80	4	6	< 2	0.10	< 2	< 0.8	6.0	410	> 5000	29	< 0.3	< 0.1	< 0.1	0.91	68.0	< 0.1	13.5	< 0.2	< 10	< 0.2
B419398 A	0.21	< 5	< 10	8	< 3	< 2	0.07	< 2	1.9	0.6	50	3.7	17	< 0.3	< 0.1	< 0.1	0.43	0.5	< 0.1	< 0.7	< 0.2	< 10	< 0.2
B419399	13.38	< 5	50	8	5	3	0.17	< 2	4.6	0.3	60	> 5000	26	1.5	< 0.1	< 0.1	0.88	57.9	3.1	11.3	< 0.2	< 10	< 0.2
B419401	13.12	< 5	20	4	6	< 2	0.06	< 2	4.8	2.0	50	569	11	0.6	< 0.1	< 0.1	1.44	58.0	1.2	6.9	< 0.2	< 10	< 0.2
B419487	16.13	< 5	10	5	4	3	0.10	< 2	2.8	0.2	50	536	12	1.6	0.3	< 0.1	0.62	53.6	2.3	11.6	< 0.2	< 10	< 0.2
B419487 A	15.38	6	40	22	108	2	0.16	< 2	0.8	0.5	60	68.7	27	< 0.3	< 0.1	< 0.1	1.15	16.4	0.3	5.5	< 0.2	< 10	< 0.2
B419488	11.79	< 5	10	4	5	24	0.09	< 2	16.0	0.2	70	188	9	2.1	0.9	< 0.1	0.94	54.3	3.3	5.8	0.2	< 10	< 0.2
B419489	12.42	< 5	< 10	5	3	5	0.12	< 2	22.1	0.6	80	142	< 2	4.0	1.1	< 0.1	1.37	47.6	6.1	4.1	0.3	< 10	< 0.2

Results

Activation Laboratories Ltd.

Report: A21-21176

Analyte Symbol	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2
B419397	4.84	8.0	920	0.02	927	2	89.9	11.9	20	34.8	2.9	1550	67.02	< 2	< 8	> 30.0	4.5	18.9	6	25.8	0.6	< 6	4.8
B419398	9.41	< 0.4	5730	0.02	1250	40	39.1	< 0.4	60	51.7	< 0.1	> 5000	61.05	< 2	12	28.5	0.3	87.9	15	61.2	< 0.1	< 6	< 0.1
B419398 A	0.03	1.4	18	< 0.01	54	< 1	7.7	0.9	20	20.3	0.4	5.1	85.95	< 2	18	> 30.0	0.2	1.0	11	0.4	< 0.1	9	0.7
B419399	5.05	1.5	5060	< 0.01	775	2	56.7	3.8	20	16.1	0.6	3600	65.80	< 2	< 8	> 30.0	3.3	80.1	8	204	0.4	< 6	0.6
B419401	6.22	1.8	1270	< 0.01	435	2	74.9	2.6	40	28.6	0.7	3230	69.62	< 2	< 8	> 30.0	1.3	51.3	7	85.7	0.1	< 6	1.1
B419487	8.09	1.5	51	< 0.01	79	< 1	29.5	1.5	10	31.2	0.4	2830	66.10	< 2	12	> 30.0	0.7	7.6	9	91.5	0.3	< 6	1.2
B419487 A	2.35	< 0.4	9130	0.02	665	2	37.2	< 0.4	20	9.7	< 0.1	605	71.04	< 2	< 8	> 30.0	< 0.1	131	39	19.1	< 0.1	< 6	0.3
B419488	2.32	7.3	240	< 0.01	316	3	168.5	9.2	30	17.8	2.1	900	71.04	< 2	25	> 30.0	5.0	23.1	12	139	0.5	< 6	6.0
B419489	5.34	8.1	284	0.02	253	2	99.2	12.0	20	25.4	3.0	1510	76.15	< 2	< 8	> 30.0	4.8	21.3	10	31.2	0.8	< 6	6.8

Analyte Symbol	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419397	< 0.01	9.7	0.2	3.0	< 5	4.1	16.8	1.2	200
B419398	< 0.01	40.3	< 0.1	0.9	< 5	5.0	< 0.1	< 0.1	150
B419398A	0.03	< 0.1	< 0.1	0.7	< 5	1.5	1.3	0.3	80
B419399	< 0.01	26.4	< 0.1	2.0	< 5	2.3	7.6	0.2	80
B419401	0.01	23.0	< 0.1	1.8	< 5	3.5	2.9	< 0.1	150
B419487	< 0.01	17.9	< 0.1	3.7	< 5	< 0.7	14.2	0.4	< 30
B419487A	< 0.01	3.6	< 0.1	6.1	< 5	4.6	0.7	0.1	110
B419488	< 0.01	5.2	0.1	9.6	< 5	2.4	19.9	0.6	90
B419489	0.02	9.1	0.1	2.3	< 5	1.8	28.6	0.8	100

Analyte Symbol	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3 (T)	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
PTM-1a Meas		2090								> 5000			> 10000										
PTM-1a Cert		2200								20500.00			249600.00										
CD-1 Meas		7060																					
CD-1 Cert		6600																					
NIST 696 Meas	49.14						0.04				330						7.67						
NIST 696 Cert	54.5						0.018				321.0						8.70						
GBW 07238 (NCS DC 70006) Meas	3.29						31.64										20.48						
GBW 07238 (NCS DC 70006) Cert	3.46						31.4										21.3						
Oreas 74a (Fusion) Meas	2.12	48								531	1650		1080										
Oreas 74a (Fusion) Cert	2.21	50								581	1800.00		1240.00										
MP-1b Meas		> 10000				955	3.26	563					> 10000										582
MP-1b Cert		23000.00				954.00	3.456	527.00					30700										565.00 00
OREAS 101b (Fusion) Meas									1320	53.2			441	37.0	20.8	8.5		39.3			6.9		
OREAS 101b (Fusion) Cert									1331	47.0			416	32.1	18.7	7.77		41			6.34		
NCS DC86315 Meas	14.12						0.72										0.55						

NCS DC86315 Cert	14.5						0.71										0.68					
NCS DC86314 Meas	22.55						0.07					3040					0.21					
NCS DC86314 Cert	24.5						0.063					2830					0.30					
CZN-4 Meas		346						2630		96.0			3900									
CZN-4 Cert		356.00 00						2604.0 000		93.5			4030.0 00									
Lithium Tetraborate FX-LT 100 lot#220610 B Meas			> 10000																			
Lithium Tetraborate FX-LT 100 lot#220610 B Cert			255700																			
OREAS 922 (Peroxide Fusion) Meas			453		12			91.7	18.6	120	8.5	2170	6.1	2.9	1.5		18.5	6.1		1.0	< 10	0.4
OREAS 922 (Peroxide Fusion) Cert			481		11			88.0	20.9	90	7.5	2220	5.75	3.38	1.52		21.2	6.94		1.20	5.93	0.3
OREAS 621 (Peroxide Fusion) Meas																						
OREAS 621 (Peroxide Fusion) Cert																						
CCU-1e Meas		1010						71		300			> 10000									
CCU-1e Cert		1010						74.2		301			229000									
OREAS 680																						

Analyte Symbol	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3 (T)	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2	10	0.2

Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
(Peroxide Fusion) Meas																						
OREAS 680 (Peroxide Fusion) Cert																						
OREAS 139 (Peroxide Fusion) Meas		310			< 3	7		265	48.0	31.4		3.6	259		1.9		12.7					0.7
OREAS 139 (Peroxide Fusion) Cert		332			3.17	6.64		296	49.4	26.0		3.21	274		1.69		10.2					0.690
OREAS 624 (Peroxide Fusion) Meas		119		1090		22		127	33.0	299		1.8	> 10000				24.8					3.4
OREAS 624 (Peroxide Fusion) Cert		115		1070		21.3		133	32.9	273		1.32	30800				22.1					4.14
OREAS 124 (Peroxide Fusion) Meas																						
OREAS 124 (Peroxide Fusion) Cert																						
AMIS 0346 (Peroxide Fusion) Meas																						
AMIS 0346 (Peroxide Fusion) Cert																						
NCS DC73520 Meas	5.14	7				7	19.19	< 2		14.2	60		52								5.5	
NCS DC73520 Cert	5.20	5				7	18.13	0.5		12.9	20		46								6.0	

OREAS 148 (Peroxide Fusion) Meas																								
OREAS 148 (Peroxide Fusion) Cert																								
B419487 A Orig	15.58	5	40	18	110	2	0.16	< 2	0.8	0.6	60	71.4	28	< 0.3	< 0.1	< 0.1	1.17	16.5	0.4	5.5	< 0.2	< 10	< 0.2	
B419487 A Dup	15.17	6	40	25	107	3	0.15	< 2	0.8	0.5	50	66.1	25	< 0.3	< 0.1	< 0.1	1.13	16.3	0.1	5.4	< 0.2	< 10	< 0.2	
B419489 Orig	12.61	< 5	10	5	4	5	0.15	< 2	21.6	0.5	60	142	4	3.5	1.1	< 0.1	1.39	50.0	6.1	4.0	0.3	< 10	< 0.2	
B419489 Dup	12.22	< 5	< 10	5	3	5	0.10	< 2	22.7	0.8	90	142	< 2	4.5	1.1	< 0.1	1.35	45.3	6.1	4.1	0.4	< 10	< 0.2	
Method Blank	< 0.01						0.07										0.21							
Method Blank	< 0.01						< 0.01										< 0.01							
Method Blank	< 0.01						< 0.01										< 0.01							

Analyte Symbol	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
PTM-1a Meas									> 10000														
PTM-1a Cert									474400.00														
CD-1 Meas														> 5000									
CD-1 Cert														35700									
NIST 696 Meas	0.06			< 0.01									3.39										
NIST 696 Cert	0.0090			0.012									3.79										
GBW 07238 (NCS DC 70006) Meas	0.08			0.83									34.15			16.0							
GBW 07238 (NCS DC)	0.046			0.860									34.1			15.9							

OREAS 922 (Peroxide Fusion) Meas		45.0	30		860		17.0	39.8	40	70.6	11.0	159				29.7	6.8	10.5	67	1.4	1.0		18.0
OREAS 922 (Peroxide Fusion) Cert		45.6	29		880		15.2	38.9	40	64.0	10.6	167				30.51	7.31	10.0	58.0	1.3	1.02		17.7
OREAS 621 (Peroxide Fusion) Meas																28.6							
OREAS 621 (Peroxide Fusion) Cert																28.1							
CCU-1e Meas					96					> 5000		3.03	107										59
CCU-1e Cert					96.0					7030		3.13	104										61.8
OREAS 680 (Peroxide Fusion) Meas																19.8							

Analyte Symbol	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2
OREAS 680 (Peroxide Fusion) Cert																20.6							
OREAS 139 (Peroxide Fusion) Meas		24.1	40		5860	10				> 5000		140		55		15.8			521		0.7		7.4
OREAS 139 (Peroxide Fusion) Cert		23.1	40.4		6570	11.1				22000		145		63.0		16.3 4			479		0.500		7.54
OREAS 624 (Peroxide Fusion) Meas		16.0	8		607	16	6.5	15.1		> 5000	3.8	38.2		71		19.8			53				4.3
OREAS 624 (Peroxide Fusion)		17.3	10.3		660	17.8	5.78	16.8		6120	4.27	33.0		72.0		20.5			47.6				4.12

Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
PTM-1a Meas									
PTM-1a Cert									
CD-1 Meas									
CD-1 Cert									
NIST 696 Meas	2.31				404				
NIST 696 Cert	2.64				403.00 00				
GBW	0.13								
07238 (NCS DC 70006) Meas	0.130								
07238 (NCS DC 70006) Cert									
Oreas 74a (Fusion) Meas									
Oreas 74a (Fusion) Cert									
MP-1b Meas					1140				> 10000
MP-1b Cert					1100.0 00				167000
OREAS 101b (Fusion) Meas			3.3	384	75		182	17.5	
OREAS 101b (Fusion) Cert			2.66	396	80		178	17.6	
NCS DC86315 Meas	0.04								
NCS DC86315 Cert	0.039								
NCS DC86314 Meas	0.03					73.0			
NCS DC86314 Cert	0.029					79.0			
CZN-4 Meas									> 10000
CZN-4 Cert									550700.00

Lithium Tetraborate FX-LT 100 lot#220610B Meas									
Lithium Tetraborate FX-LT 100 lot#220610B Cert									
OREAS 922 (Peroxide Fusion) Meas		1.0	0.4	3.4	96		28.6	2.5	290
OREAS 922 (Peroxide Fusion) Cert		0.88	0.510	3.6	92.0		31.1	3.17	280
OREAS 621 (Peroxide Fusion) Meas									
OREAS 621 (Peroxide Fusion) Cert									
CCU-1e Meas		2.7							> 10000
CCU-1e Cert		2.69							30200
OREAS 680 (Peroxide Fusion)									
Analyte Symbol	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
Meas									
OREAS 680 (Peroxide Fusion) Cert									
OREAS 139 (Peroxide Fusion) Meas		33.8		12.1			16.5		> 10000
OREAS 139 (Peroxide Fusion) Cert		35.4		12.2			17.1		133600.00
OREAS 624 (Peroxide Fusion)		1.1		1.3	32	5.5	16.9	2.8	> 10000

Meas									
OREAS 624 (Peroxide Fusion) Cert		0.940		1.34	43.3	4.58	17.3	1.94	24100
OREAS 124 (Peroxide Fusion) Meas									
OREAS 124 (Peroxide Fusion) Cert									
AMIS 0346 (Peroxide Fusion) Meas					2910				
AMIS 0346 (Peroxide Fusion) Cert					2700				
NCS DC73520 Meas						495			380
NCS DC73520 Cert						518			370
OREAS 148 (Peroxide Fusion) Meas									
OREAS 148 (Peroxide Fusion) Cert									
B419487A Orig	< 0.01	3.4	< 0.1	6.2	< 5	4.6	0.9	0.2	120
B419487A Dup	< 0.01	3.7	< 0.1	6.1	< 5	4.7	0.4	0.1	100
B419489 Orig	0.02	8.4	0.1	2.4	< 5	2.6	29.2	0.7	100
B419489 Dup	0.02	9.9	0.1	2.2	< 5	1.1	28.0	0.9	100
Method Blank	< 0.01								
Method Blank	< 0.01								
Method Blank	< 0.01								

Quality Analysis ...



Innovative Technologies

Report No.: A21-21196
Report Date: 04-Jan-22
Date Submitted: 11-Nov-21
Your Reference: Campus Creek Pegmatites

Grid Metals Corp.
304-3335 Yonge St,
Toronto Ontario M4N 2M1
Canada

ATTN: Dave Peck

CERTIFICATE OF ANALYSIS

107 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
UT-7-Grid	QOP Sodium Peroxide (Sodium Peroxide Fusion ICPOES + ICPMS)	2021-12-15 12:45:31

REPORT A21-21196

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Notes:



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
LabID: 266 E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

A handwritten signature in black ink, appearing to be "Elitsa Hrischeva".

Analyte Symbol	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3 (T)	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419376	14.35	23	10	6	<3	<2	0.18	<2	21.1	0.6	60	16.7	17	4.9	1.5	<0.1	0.85	27.1	4.6	4.0	0.8	<10	<0.2
B419377	15.93	8	10	<3	<3	<2	0.07	<2	8.6	1.9	40	23.3	15	5.3	1.0	<0.1	0.71	32.2	3.7	3.8	0.5	<10	<0.2
B419378	8.46	10	<10	6	<3	15	0.21	<2	8.6	1.0	90	2.5	11	0.3	<0.1	<0.1	0.85	27.2	2.1	3.2	<0.2	<10	<0.2
B419379	12.52	12	<10	7	<3	4	0.11	<2	3.2	2.0	60	8.9	16	0.6	0.4	<0.1	0.68	26.1	0.6	3.3	<0.2	<10	<0.2
B419380	0.22	7	<10	6	<3	<2	<0.01	<2	2.3	0.7	50	0.4	13	0.4	<0.1	<0.1	0.48	0.9	<0.1	1.5	<0.2	<10	<0.2
B419381	14.00	<5	<10	5	<3	7	0.20	<2	10.6	0.7	50	9.1	5	0.9	0.4	<0.1	0.77	30.0	0.7	2.9	<0.2	<10	<0.2
B419382	13.53	<5	<10	5	<3	8	0.12	<2	7.0	0.8	70	6.8	11	0.8	<0.1	<0.1	0.57	33.9	0.8	2.7	<0.2	<10	<0.2
B419383	11.37	<5	<10	5	<3	4	0.11	<2	2.6	0.5	130	6.0	12	0.6	<0.1	<0.1	0.43	16.4	0.3	2.1	<0.2	<10	<0.2
B419384	12.55	<5	<10	7	<3	18	0.20	<2	9.3	1.2	60	12.5	14	1.1	0.4	<0.1	0.73	30.8	1.8	3.5	<0.2	<10	<0.2
B419385	13.45	<5	<10	5	<3	9	0.30	<2	8.7	0.9	60	8.9	13	0.4	<0.1	<0.1	0.68	29.0	0.8	3.1	<0.2	<10	<0.2
B419386	13.59	<5	<10	5	<3	70	0.36	<2	24.6	0.3	50	5.4	17	5.2	2.7	<0.1	0.76	23.5	5.0	3.2	0.9	<10	<0.2
B419387	14.97	18	<10	13	<3	3	0.09	<2	4.6	6.0	50	10.8	20	0.4	0.1	<0.1	0.34	21.4	0.4	3.6	<0.2	<10	<0.2
B419388	10.65	9	<10	5	<3	<2	0.04	<2	2.3	0.6	70	9.0	10	<0.3	0.1	<0.1	0.54	16.0	0.6	2.4	<0.2	<10	<0.2
B419389	4.51	9	<10	20	<3	7	0.12	<2	5.1	1.5	70	4.7	27	0.4	<0.1	<0.1	0.50	10.7	0.9	2.8	<0.2	<10	<0.2
B419390	9.30	45	30	1980	33	14	1.50	<2	1110	8.2	110	221	306	8.6	2.8	9.9	4.62	21.5	19.4	6.4	1.4	<10	2.8
B419391	10.54	7	<10	6	<3	7	0.11	<2	3.8	1.2	60	12.3	10	0.3	<0.1	<0.1	0.79	24.0	0.6	3.1	<0.2	<10	<0.2
B419392	12.52	<5	<10	6	<3	33	0.30	<2	8.5	0.7	60	4.5	11	1.7	0.6	<0.1	0.70	30.9	1.4	2.7	0.3	<10	<0.2
B419393	14.14	5	<10	3	<3	3	0.09	<2	5.6	0.3	50	22.7	11	0.6	<0.1	<0.1	0.43	16.1	0.9	3.0	<0.2	<10	<0.2
B419394	14.38	<5	10	9	<3	95	0.33	<2	59.4	<0.2	50	6.5	12	6.9	2.7	<0.1	1.16	49.4	9.9	3.3	1.3	<10	0.4
B419395	13.50	7	<10	8	<3	19	0.08	<2	14.6	0.7	60	31.9	14	2.2	0.4	<0.1	0.78	32.7	2.7	3.3	0.2	<10	<0.2
B419396	16.71	<5	<10	7	<3	<2	0.09	<2	3.5	1.0	50	20.9	10	1.4	0.3	<0.1	0.38	41.8	1.9	3.9	<0.2	<10	<0.2
B419400	15.58	19	20	21	115	3	0.23	3	0.8	7.6	80	57.9	41	<0.3	<0.1	<0.1	1.19	12.4	0.1	7.1	<0.2	<10	<0.2
B419402	13.29	<5	30	8	<3	29	0.18	<2	9.0	1.0	70	11.2	10	0.3	0.2	<0.1	0.68	34.5	1.1	3.1	<0.2	<10	<0.2

Results

Activation Laboratories Ltd.

Report: A21-21196



B41940 3	11.12	< 5	< 10	7	< 3	3	0.25	< 2	6.3	0.9	70	8.8	10	< 0.3	0.3	< 0.1	0.52	24.3	0.7	3.6	< 0.2	< 10	0.2
B41940 4	13.34	< 5	< 10	6	< 3	19	0.23	< 2	11.0	< 0.2	60	6.2	6	2.5	0.8	< 0.1	0.69	29.6	2.0	3.0	0.2	< 10	< 0.2
B41940 5	10.26	< 5	< 10	5	< 3	8	0.29	< 2	6.7	0.6	80	5.6	11	0.6	< 0.1	< 0.1	0.66	31.4	0.8	2.8	< 0.2	< 10	< 0.2
B41940 6	15.29	< 5	< 10	3	< 3	8	0.24	< 2	6.7	0.2	70	8.9	3	1.0	< 0.1	< 0.1	0.48	24.4	1.2	2.3	0.2	< 10	< 0.2
B41940 7	6.53	< 5	< 10	11	< 3	8	0.25	< 2	8.0	0.7	70	2.2	4	1.0	0.6	< 0.1	0.46	16.4	1.2	1.6	< 0.2	< 10	< 0.2
B41940 8	17.96	< 5	< 10	5	< 3	< 2	0.23	< 2	7.3	0.6	60	15.4	6	1.8	0.4	< 0.1	0.61	36.9	2.0	2.6	0.3	< 10	< 0.2
B41940 9	13.52	< 5	< 10	8	< 3	< 2	0.63	< 2	11.0	< 0.2	50	7.3	< 2	5.6	4.0	0.1	0.74	23.2	2.1	1.9	1.2	10	< 0.2
B41941 0	0.23	< 5	< 10	6	< 3	< 2	0.04	< 2	2.0	< 0.2	70	0.1	6	< 0.3	< 0.1	< 0.1	0.49	0.2	< 0.1	< 0.7	< 0.2	< 10	< 0.2
B41941 1	15.63	48	< 10	9	< 3	< 2	0.13	< 2	2.4	0.5	60	59.4	19	0.4	< 0.1	< 0.1	0.42	32.3	0.1	2.6	< 0.2	< 10	< 0.2
B41941 2	9.26	< 5	< 10	25	< 3	< 2	0.21	< 2	5.9	0.6	70	2.0	9	1.5	0.3	< 0.1	0.59	31.0	1.2	2.7	< 0.2	< 10	< 0.2
B41941 3	14.26	< 5	< 10	< 3	< 3	< 2	0.12	< 2	4.7	0.3	60	10.8	26	1.7	0.4	< 0.1	0.51	26.7	1.3	3.4	0.2	< 10	< 0.2
B41941 4	13.31	< 5	< 10	< 3	< 3	10	0.25	< 2	11.9	0.7	60	13.5	17	4.0	1.2	< 0.1	0.98	33.5	4.9	2.9	0.5	< 10	< 0.2
B41941 5	10.25	< 5	< 10	3	< 3	2	0.23	< 2	11.0	0.2	80	8.4	18	2.7	0.7	< 0.1	0.65	21.0	2.7	3.1	0.2	< 10	< 0.2
B41941 6	14.88	< 5	< 10	< 3	< 3	< 2	0.21	< 2	10.3	< 0.2	70	23.2	10	2.0	0.4	< 0.1	0.53	35.0	2.4	2.6	0.3	< 10	< 0.2
B41941 7	20.37	< 5	< 10	< 3	6	< 2	0.15	< 2	12.1	0.5	50	18.3	12	0.7	< 0.1	< 0.1	1.64	113	1.4	2.5	< 0.2	< 10	0.2
B41941 8	15.25	< 5	< 10	56	4	2	16.54	< 2	7.0	38.7	270	3.0	56	2.5	1.8	0.5	10.36	16.7	2.5	3.2	0.7	10	< 0.2
B41941 9	13.30	< 5	< 10	573	3	< 2	0.85	< 2	25.0	0.8	40	7.0	17	1.4	1.2	0.6	1.00	19.3	1.7	1.4	0.2	< 10	< 0.2
B41942 0	9.21	41	20	2000	35	14	1.64	< 2	1220	5.9	120	234	314	9.4	3.0	10.4	4.63	20.8	19.2	6.5	1.5	10	3.6
B41942 1	1.46	< 5	< 10	12	< 3	< 2	5.29	< 2	3.9	4.3	60	1.0	22	1.4	0.8	0.3	18.13	3.6	1.1	4.0	0.3	< 10	0.3
B41942 2	14.40	< 5	< 10	232	5	6	1.56	< 2	5.9	1.2	60	4.2	17	1.8	1.0	< 0.1	0.68	26.8	1.1	3.6	0.5	< 10	< 0.2
B41942 3	10.85	< 5	< 10	6	< 3	6	0.13	< 2	5.9	0.2	60	8.6	3	0.4	0.2	< 0.1	0.46	19.4	0.6	2.1	< 0.2	< 10	< 0.2
B41942 4	15.03	< 5	< 10	11	< 3	< 2	0.12	< 2	1.8	< 0.2	50	13.7	9	< 0.3	< 0.1	< 0.1	0.26	23.4	< 0.1	3.3	< 0.2	< 10	< 0.2
B41942 5	14.12	< 5	< 10	4	< 3	6	0.34	< 2	24.9	1.0	50	6.6	16	6.3	3.0	< 0.1	1.13	35.3	6.1	3.6	1.2	< 10	0.4
B41942 6	10.42	< 5	< 10	< 3	< 3	< 2	0.08	< 2	3.0	< 0.2	60	8.1	14	1.6	0.7	< 0.1	0.57	19.5	1.8	1.9	0.3	< 10	< 0.2
B41942 7	13.98	< 5	< 10	3	< 3	40	0.27	< 2	13.2	< 0.2	60	10.8	9	1.0	0.3	< 0.1	0.82	38.9	1.4	3.4	0.4	10	< 0.2
B41942 8	4.75	< 5	< 10	3	< 3	101	0.13	< 2	2.2	0.6	80	4.1	8	0.4	0.2	< 0.1	0.43	6.9	0.3	2.0	< 0.2	< 10	< 0.2

Analyte Symbol	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3 (T)	Ga	Gd	Ge	Ho	Hf	In
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Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419429	14.20	< 5	< 10	4	< 3	17	0.45	< 2	14.3	1.4	60	6.6	10	1.2	0.2	< 0.1	0.69	33.6	2.1	2.9	< 0.2	< 10	< 0.2
B419430	15.70	14	20	23	113	3	0.21	< 2	< 0.8	1.2	60	61.9	27	< 0.3	< 0.1	< 0.1	1.23	13.8	0.2	8.3	< 0.2	< 10	< 0.2
B419431	10.13	< 5	< 10	4	< 3	5	0.15	< 2	3.7	< 0.2	70	7.1	5	0.6	0.2	< 0.1	0.50	24.1	0.5	2.8	< 0.2	< 10	< 0.2
B419432	7.46	< 5	< 10	< 3	< 3	< 2	0.11	< 2	4.2	0.9	90	7.4	25	1.7	0.8	< 0.1	0.61	17.9	2.1	2.7	0.3	10	< 0.2
B419433	13.67	< 5	< 10	< 3	3	12	0.38	< 2	19.1	1.0	70	6.3	9	1.9	1.3	< 0.1	1.05	53.4	1.4	3.5	< 0.2	< 10	0.3
B419434	8.87	< 5	< 10	< 3	< 3	< 2	0.19	< 2	5.2	0.5	70	8.3	5	0.5	< 0.1	< 0.1	0.42	16.9	0.5	2.1	< 0.2	< 10	< 0.2
B419435	12.97	< 5	< 10	7	< 3	20	0.39	< 2	30.6	< 0.2	50	1.4	9	4.5	2.5	< 0.1	0.57	30.6	4.4	2.6	0.9	< 10	< 0.2
B419436	11.93	< 5	< 10	6	< 3	< 2	0.03	< 2	4.9	0.9	90	10.1	7	< 0.3	< 0.1	< 0.1	1.22	79.0	0.5	2.5	< 0.2	10	1.1
B419437	14.63	< 5	10	10	< 3	8	0.25	< 2	24.7	1.6	60	16.7	15	17.9	8.0	< 0.1	2.15	30.3	10.7	3.6	2.9	< 10	< 0.2
B419438	12.41	< 5	< 10	< 3	< 3	5	0.24	< 2	31.9	0.5	70	8.8	10	17.5	7.0	< 0.1	1.24	35.3	10.3	3.6	2.6	< 10	0.2
B419439	10.49	< 5	< 10	< 3	3	7	0.26	< 2	12.8	0.4	60	5.4	4	5.3	1.2	< 0.1	0.78	22.4	4.1	3.2	0.7	< 10	< 0.2
B419440	0.23	< 5	< 10	8	< 3	< 2	0.08	< 2	2.1	1.2	50	< 0.1	11	0.3	< 0.1	< 0.1	0.50	< 0.2	0.1	0.7	< 0.2	< 10	< 0.2
B419441	10.19	< 5	< 10	3	< 3	16	0.13	< 2	9.9	0.5	70	9.5	9	1.0	0.1	< 0.1	0.43	28.4	1.5	3.0	< 0.2	< 10	< 0.2
B419442	13.97	6	10	7	< 3	25	0.26	< 2	63.0	1.0	60	7.4	11	14.1	9.6	< 0.1	1.34	47.9	11.4	5.0	3.9	< 10	0.3
B419443	11.89	< 5	< 10	< 3	< 3	103	0.25	< 2	47.9	2.9	60	6.6	26	15.0	5.7	< 0.1	1.37	40.4	11.6	4.5	2.3	< 10	< 0.2
B419444	10.11	9	< 10	5	< 3	< 2	0.22	< 2	6.9	< 0.2	60	7.9	6	0.6	0.2	< 0.1	0.34	23.3	1.4	2.1	< 0.2	< 10	< 0.2
B419445	13.78	11	< 10	13	4	< 2	0.14	< 2	7.2	0.9	50	59.2	19	0.7	0.4	< 0.1	0.52	31.7	0.8	2.6	< 0.2	< 10	< 0.2
B419446	11.24	7	10	7	3	6	0.20	< 2	11.7	0.9	40	15.3	24	1.8	0.7	< 0.1	0.62	44.7	2.4	3.1	0.3	< 10	< 0.2
B419447	14.66	< 5	< 10	8	3	< 2	0.27	< 2	21.4	1.3	70	15.8	11	3.4	1.1	< 0.1	0.70	50.3	4.1	4.9	0.5	< 10	< 0.2
B419448	14.29	6	< 10	7	< 3	< 2	0.29	< 2	8.0	0.6	50	14.7	12	3.8	2.4	< 0.1	0.91	47.6	4.2	3.5	0.7	< 10	0.3
B419449	14.33	5	< 10	7	< 3	4	0.25	< 2	3.6	< 0.2	60	8.6	12	0.4	0.2	< 0.1	0.62	43.6	0.8	2.6	< 0.2	< 10	< 0.2
B419450	9.15	39	30	1960	33	13	1.62	< 2	1220	6.8	110	237	319	8.2	2.1	10.6	4.61	15.8	22.6	6.0	1.3	< 10	2.9
B419451	15.34	< 5	< 10	< 3	< 3	7	0.15	< 2	2.7	6.2	370	10.4	44	< 0.3	< 0.1	< 0.1	0.59	31.9	0.4	3.4	< 0.2	< 10	< 0.2
B419452	14.73	6	< 10	8	< 3	< 2	0.15	< 2	5.1	0.6	100	13.3	40	1.2	0.4	< 0.1	0.39	30.1	0.9	2.7	< 0.2	< 10	< 0.2

Results

Activation Laboratories Ltd.

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B41945 3	2.62	< 5	< 10	< 3	5	< 2	5.35	< 2	2.1	3.1	90	0.4	67	1.0	0.9	0.2	7.80	5.8	0.9	6.6	< 0.2	< 10	< 0.2
B41945 4	17.37	< 5	< 10	4	< 3	< 2	< 0.01	< 2	3.2	1.2	50	20.2	18	0.6	0.2	< 0.1	0.31	27.0	0.4	2.4	< 0.2	< 10	< 0.2
B41945 5	13.71	6	< 10	4	< 3	< 2	0.12	< 2	6.0	< 0.2	50	7.8	12	1.8	0.9	< 0.1	0.57	29.6	1.8	2.1	0.3	< 10	< 0.2
B41945 6	11.50	< 5	20	15	< 3	7	0.15	< 2	8.3	1.0	80	4.9	12	0.7	0.3	< 0.1	0.68	25.4	0.8	2.0	< 0.2	< 10	< 0.2
B41945 7	11.69	< 5	< 10	9	< 3	< 2	0.19	< 2	12.6	0.4	70	5.5	4	4.1	1.9	< 0.1	0.78	33.0	3.3	2.3	0.4	< 10	< 0.2
B41945 8	15.29	< 5	10	36	< 3	22	0.12	< 2	11.7	< 0.2	50	8.9	6	2.7	1.2	< 0.1	0.51	31.7	3.0	2.2	0.5	< 10	< 0.2
B41945 9	11.28	< 5	< 10	241	8	< 2	13.63	< 2	78.4	60.7	1380	3.6	21	2.7	1.3	1.6	12.46	13.0	3.2	2.7	0.6	< 10	< 0.2
B41946 0	16.73	7	10	17	114	2	0.12	< 2	< 0.8	0.3	70	62.0	23	< 0.3	< 0.1	< 0.1	1.26	13.1	0.1	5.0	< 0.2	< 10	< 0.2
B41946 1	15.46	< 5	< 10	< 3	< 3	4	0.15	< 2	41.7	0.7	50	23.1	15	4.5	1.4	< 0.1	0.87	47.3	5.8	2.7	0.7	10	< 0.2
B41946 2	6.25	< 5	< 10	3	< 3	< 2	0.07	< 2	4.2	0.7	70	3.4	6	0.5	0.5	< 0.1	0.51	19.9	1.5	1.4	< 0.2	< 10	< 0.2
B41946 3	15.21	< 5	< 10	4	< 3	< 2	0.30	< 2	33.7	0.5	50	5.2	13	5.8	3.1	< 0.1	0.74	36.2	7.9	2.2	1.1	< 10	< 0.2
B41946 4	14.04	< 5	< 10	< 3	< 3	< 2	0.06	< 2	9.7	0.3	40	8.8	3	1.1	0.6	< 0.1	0.41	23.4	2.0	1.8	< 0.2	< 10	< 0.2
B41946 5	14.86	< 5	< 10	3	3	9	0.25	< 2	60.0	1.0	70	1.8	6	93.8	41.8	< 0.1	4.80	37.3	48.7	6.2	15.1	10	< 0.2
B41946 6	15.18	< 5	< 10	27	< 3	18	0.24	< 2	42.4	0.6	50	5.5	6	3.1	1.0	< 0.1	1.14	61.7	4.5	2.1	0.4	< 10	0.4
B41946 7	8.62	< 5	< 10	< 3	< 3	3	< 0.01	< 2	3.1	1.0	60	9.8	6	1.0	0.4	< 0.1	0.70	18.1	0.8	3.0	0.2	< 10	< 0.2
B41946 8	7.80	< 5	< 10	5	< 3	9	0.22	< 2	6.9	< 0.2	70	5.1	11	0.6	0.3	< 0.1	1.59	33.3	0.4	1.9	< 0.2	< 10	< 0.2
B41946 9	13.88	< 5	< 10	3	< 3	2	0.19	< 2	12.0	< 0.2	40	21.4	8	2.4	1.1	< 0.1	0.53	20.2	2.3	2.8	0.5	< 10	< 0.2
B41947 0	0.21	< 5	< 10	5	< 3	< 2	< 0.01	< 2	2.2	0.7	50	0.4	9	< 0.3	< 0.1	< 0.1	0.46	0.6	< 0.1	1.2	< 0.2	< 10	< 0.2
B41947 1	10.27	< 5	< 10	< 3	< 3	< 2	0.15	< 2	16.6	0.8	60	6.7	17	2.3	1.1	< 0.1	0.84	29.4	2.3	2.4	0.5	10	< 0.2
B41947 2	9.72	< 5	< 10	6	< 3	4	0.02	< 2	8.8	0.4	70	14.8	13	1.4	0.9	< 0.1	0.61	22.7	2.5	2.5	0.5	< 10	< 0.2
B41947 3	13.90	< 5	< 10	< 3	< 3	< 2	< 0.01	< 2	9.4	0.4	50	21.9	13	2.0	1.2	< 0.1	0.47	25.4	1.8	2.6	0.3	< 10	< 0.2
B41947 4	7.74	< 5	< 10	4	< 3	< 2	0.03	< 2	6.5	0.6	100	7.5	23	2.4	1.1	< 0.1	0.43	18.0	1.9	2.7	0.5	< 10	< 0.2
B41947 5	10.46	< 5	< 10	1830	< 3	< 2	10.23	< 2	59.5	50.0	760	13.8	25	3.5	1.1	2.8	8.40	18.1	7.4	2.9	0.7	< 10	< 0.2
B41947 6	14.00	< 5	< 10	12	7	< 2	1.42	< 2	24.6	0.3	70	5.4	14	2.6	0.5	0.1	0.71	44.2	4.6	4.7	0.4	< 10	< 0.2
B41947 7	13.71	< 5	< 10	12	< 3	< 2	0.17	< 2	19.6	0.5	50	8.3	16	2.8	1.5	< 0.1	0.63	33.4	2.7	3.0	0.5	< 10	< 0.2

Analyte Symbol	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3 (T)	Ga	Gd	Ge	Ho	Hf	In
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Results

Activation Laboratories Ltd.

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Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419478	10.80	< 5	< 10	3	3	< 2	0.25	< 2	169	< 0.2	60	0.8	8	131	79.6	< 0.1	5.18	35.8	59.9	14.1	27.9	20	0.2
B419479	13.13	< 5	< 10	13	5	< 2	0.23	< 2	69.2	< 0.2	60	4.2	17	31.8	18.9	< 0.1	2.44	54.2	15.8	6.3	6.5	20	< 0.2
B419480	9.06	42	30	1830	34	13	1.62	< 2	1190	5.5	110	218	297	9.1	2.7	9.5	4.60	18.1	24.2	6.3	1.2	< 10	3.4
B419481	14.27	< 5	10	< 3	4	< 2	0.24	< 2	112	0.5	40	3.0	11	28.0	18.6	< 0.1	3.29	34.4	17.7	6.9	6.0	10	< 0.2
B419482	14.46	< 5	< 10	5	< 3	< 2	0.01	< 2	2.1	0.8	70	109	14	0.5	0.1	< 0.1	0.48	35.6	0.2	2.7	< 0.2	< 10	< 0.2
B419483	9.64	< 5	< 10	15	< 3	< 2	0.04	< 2	20.7	1.7	90	8.6	8	2.4	0.5	< 0.1	0.73	30.7	3.1	4.0	0.4	< 10	< 0.2
B419484	11.25	< 5	< 10	24	< 3	< 2	0.13	< 2	3.5	0.5	60	25.3	13	0.6	0.4	< 0.1	0.71	31.5	0.9	3.3	< 0.2	< 10	< 0.2
B419485	16.73	< 5	< 10	< 3	< 3	< 2	0.22	< 2	14.1	0.4	40	9.9	7	1.0	0.6	< 0.1	1.13	75.8	1.4	2.2	< 0.2	< 10	0.6
B419486	7.98	< 5	< 10	45	< 3	< 2	2.42	< 2	2.4	< 0.2	80	1.4	4	< 0.3	0.6	0.1	0.41	9.8	0.6	0.9	< 0.2	< 10	< 0.2

Results

Activation Laboratories Ltd.

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Analyte Symbol	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419376	5.93	7.6	98	0.01	1680	3	26.6	11.2	40	25.6	2.8	1180	73.66	< 2	< 8	> 30.0	5.8	4.6	15	3.5	1.0	< 6	5.6
B419377	5.90	3.8	130	0.01	1300	3	100.6	5.1	20	22.4	1.2	1070	72.08	< 2	< 8	> 30.0	1.5	8.8	12	11.7	0.6	9	1.4
B419378	1.12	3.7	103	0.03	126	6	50.7	4.3	40	8.4	1.1	284	84.87	< 2	< 8	> 30.0	1.2	5.8	15	4.0	0.1	16	2.0
B419379	7.33	1.7	52	0.02	193	4	32.7	1.4	30	38.9	0.3	1300	75.73	< 2	< 8	> 30.0	1.1	4.7	15	4.6	0.1	< 6	0.7
B419380	< 0.01	1.2	24	< 0.01	60	2	3.1	1.2	30	4.5	0.3	4.1	95.42	< 2	< 8	> 30.0	0.5	1.7	11	0.5	< 0.1	< 6	0.7
B419381	6.08	4.7	110	0.03	231	3	75.9	3.6	< 10	29.6	1.0	1240	73.57	< 2	8	> 30.0	0.8	5.9	17	8.4	0.1	< 6	2.8
B419382	6.17	3.2	61	0.02	280	3	61.2	3.5	30	28.7	0.9	1150	73.61	< 2	< 8	> 30.0	1.3	5.5	13	6.0	0.1	< 6	1.3
B419383	6.27	1.8	35	0.01	99	47	17.1	0.9	20	30.5	0.3	1100	77.09	< 2	< 8	> 30.0	0.5	1.3	19	2.3	< 0.1	< 6	0.5
B419384	4.57	3.9	140	0.04	230	4	40.9	5.1	10	24.9	1.3	898	74.62	< 2	< 8	> 30.0	1.6	6.7	13	3.9	0.2	12	2.1
B419385	3.00	4.0	96	0.02	139	3	41.9	3.5	20	21.1	0.9	617	75.30	< 2	< 8	> 30.0	1.4	4.7	10	3.7	< 0.1	< 6	0.6
B419386	2.59	13.0	71	0.02	496	5	56.3	11.6	< 10	27.1	2.9	496	74.22	< 2	16	> 30.0	4.3	3.5	12	11.1	0.8	< 6	8.3
B419387	9.51	3.0	36	0.01	82	7	20.7	2.2	< 10	49.1	0.4	1660	73.12	< 2	< 8	> 30.0	0.4	3.3	20	3.3	< 0.1	< 6	0.9
B419388	6.54	0.9	51	0.01	60	4	18.3	0.6	30	58.0	0.2	1160	76.91	< 2	< 8	> 30.0	< 0.1	3.6	12	1.9	< 0.1	20	0.4
B419389	1.44	2.1	64	0.02	119	2	44.4	1.7	10	27.8	0.7	259	88.30	< 2	< 8	> 30.0	1.4	2.2	10	8.6	0.1	< 6	1.0
B419390	2.03	693	2070	0.86	378	10	1183.7	355	30	40.6	110	1190	75.79	11	< 8	> 30.0	42.5	748	284	17.6	2.5	< 6	96.6
B419391	3.42	2.2	138	0.03	204	2	66.4	1.5	< 10	24.1	0.3	674	79.26	< 2	< 8	> 30.0	0.5	3.5	14	7.2	< 0.1	< 6	0.3
B419392	1.15	3.1	98	0.04	263	3	47.7	4.1	10	16.2	1.2	232	77.22	< 2	< 8	> 30.0	1.0	5.6	14	5.5	0.2	< 6	2.0
B419393	8.40	2.4	48	0.01	97	< 1	25.2	2.4	< 10	35.3	0.5	1470	74.31	< 2	< 8	> 30.0	0.4	2.9	14	3.9	0.1	16	0.8
B419394	2.21	22.6	225	0.06	406	< 1	110.8	27.8	20	21.5	7.7	582	75.46	< 2	25	> 30.0	13.4	10.8	16	14.8	1.7	< 6	10.7
B419395	6.55	6.1	114	0.03	283	2	80.8	8.3	10	40.4	1.5	1390	73.96	< 2	< 8	> 30.0	2.8	6.2	10	16.2	0.6	< 6	5.4
B419396	8.93	2.1	51	0.02	58	1	47.9	1.8	< 10	50.5	0.7	1990	71.81	< 2	42	> 30.0	1.5	5.9	16	13.5	0.3	11	1.0
B419400	2.41	< 0.4	7860	0.02	751	23	38.9	< 0.4	30	14.5	< 0.1	599	72.73	< 2	< 8	> 30.0	0.3	128	35	20.5	< 0.1	< 6	0.4
B419402	6.73	3.4	88	0.03	148	2	95.1	4.0	30	36.0	1.2	1350	71.88	< 2	< 8	> 30.0	0.7	7.1	17	13.8	0.2	< 6	2.1

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B419403	4.62	3.6	33	0.01	82	4	34.1	3.3	40	25.4	0.7	864	73.11	< 2	< 8	> 30.0	0.6	3.2	11	5.0	< 0.1	< 6	0.9
B419404	5.82	4.5	42	0.03	354	2	58.2	4.1	20	28.1	1.3	1020	73.05	< 2	25	> 30.0	2.3	3.6	18	8.6	0.5	9	3.9
B419405	2.40	3.4	86	0.03	147	3	51.2	3.2	30	15.0	0.8	542	75.59	< 2	< 8	> 30.0	1.0	7.3	23	4.5	< 0.1	< 6	1.1
B419406	8.07	3.1	32	< 0.01	226	3	17.8	2.6	20	39.4	0.6	1410	69.98	< 2	< 8	> 30.0	0.8	1.8	17	2.2	0.2	9	1.7
B419407	1.19	2.5	61	0.01	139	4	25.3	3.8	20	8.1	1.1	220	74.01	< 2	< 8	> 30.0	1.0	1.7	18	2.9	0.2	< 6	1.8
B419408	10.21	3.2	151	0.02	294	2	57.4	2.9	20	45.3	0.8	1770	66.23	< 2	< 8	> 30.0	1.4	5.7	17	7.2	0.4	< 6	2.2
B419409	4.24	4.8	43	0.03	824	< 1	41.8	5.0	< 10	31.0	1.7	732	72.41	< 2	< 8	> 30.0	1.4	1.4	17	5.7	0.5	< 6	14.4
B419410	0.03	0.8	14	0.01	55	3	3.3	1.1	20	< 0.8	0.3	3.1	79.89	< 2	16	> 30.0	0.2	< 0.5	12	0.2	< 0.1	< 6	0.8
B419411	9.82	1.5	46	< 0.01	66	< 1	17.8	0.8	10	50.6	0.2	2160	68.77	< 2	31	> 30.0	0.4	4.0	15	6.0	< 0.1	< 6	0.3
B419412	0.81	2.2	101	0.02	393	5	27.6	2.4	20	7.8	0.7	227	76.30	< 2	17	> 30.0	0.9	6.0	13	1.6	< 0.1	< 6	1.0
B419413	7.26	2.6	51	0.01	372	3	15.8	2.7	20	33.9	0.4	1380	70.64	< 2	< 8	> 30.0	0.8	3.6	14	1.5	0.3	7	0.9
B419414	3.18	4.3	103	0.02	1310	< 1	120.7	5.3	20	19.1	1.3	732	76.70	< 2	< 8	> 30.0	2.7	4.2	20	20.7	0.8	< 6	2.0
B419415	2.82	4.3	50	0.01	605	4	42.0	7.0	30	13.8	1.3	527	76.03	< 2	16	> 30.0	2.2	4.4	19	5.4	0.5	< 6	1.6
B419416	6.14	3.7	96	< 0.01	539	3	53.2	4.6	70	32.1	1.3	1200	70.27	< 2	16	> 30.0	2.0	4.8	15	8.1	0.4	< 6	1.6
B419417	4.71	3.4	436	0.07	365	4	156.3	4.8	< 10	9.5	1.0	1350	64.67	< 2	17	> 30.0	1.9	28.0	11	18.2	0.2	< 6	1.5
B419418	0.39	2.7	108	5.77	2490	3	5.6	8.3	130	4.0	1.4	21.2	49.54	< 2	< 8	23.2	1.9	4.0	120	0.7	0.4	7	0.3
B419419	5.74	11.2	37	0.09	129	3	11.7	8.3	10	33.3	2.3	745	71.80	< 2	67	> 30.0	2.3	8.9	128	1.6	0.3	< 6	11.3
B419420	1.99	734	1790	0.86	377	8	1197.4	398	50	31.4	119	1190	75.57	13	76	> 30.0	57.3	749	276	19.2	3.0	< 6	101
B419421	0.11	1.7	28	4.31	6500	1	4.9	2.8	10	2.9	0.4	6.3	68.61	< 2	8	> 30.0	0.4	3.5	46	0.5	0.2	< 6	0.3
B419422	3.12	2.7	26	0.07	491	4	21.1	2.4	< 10	22.8	0.7	427	72.58	< 2	< 8	> 30.0	1.3	0.6	54	4.0	0.3	< 6	4.0
B419423	6.35	2.9	48	0.01	68	2	12.5	2.4	10	26.5	0.7	1070	59.22	< 2	17	27.7	1.0	3.6	12	1.5	0.1	< 6	2.0
B419424	9.54	1.5	30	< 0.01	27	2	4.4	0.7	< 10	49.7	0.2	1550	66.06	< 2	18	> 30.0	< 0.1	0.6	24	0.8	< 0.1	< 6	< 0.1
B419425	3.27	8.6	108	0.03	2030	3	51.1	12.4	< 10	24.6	2.9	636	73.14	< 2	17	> 30.0	5.1	3.1	14	5.7	1.2	11	5.8
B419426	6.00	1.5	65	0.01	588	4	342.2	1.8	< 10	31.2	0.5	1020	71.58	< 2	< 8	> 30.0	1.4	2.4	15	36.9	0.3	< 6	0.5
B419427	5.19	4.9	97	0.04	255	3	62.5	5.9	20	31.1	1.1	984	72.74	< 2	8	> 30.0	2.1	7.3	16	11.6	0.3	< 6	5.1
B419428	2.24	1.3	36	0.02	90	3	16.3	1.3	10	13.2	0.3	391	74.34	< 2	17	> 30.0	0.6	1.9	18	2.3	< 0.1	9	0.3

Analyte Symbol	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
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Results

Activation Laboratories Ltd.

Report: A21-21196

Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419429	2.64	5.9	91	0.04	131	2	62.9	7.0	10	23.0	1.7	512	73.80	< 2	< 8	> 30.0	1.4	4.9	19	8.7	0.1	< 6	2.5
B419430	2.40	< 0.4	7720	0.02	757	4	38.3	< 0.4	10	10.8	0.1	599	73.17	< 2	< 8	> 30.0	< 0.1	135	38	21.0	< 0.1	< 6	0.3
B419431	4.55	1.8	80	0.01	143	4	49.9	< 0.4	10	23.6	0.2	777	71.07	< 2	< 8	> 30.0	0.7	3.1	13	6.1	< 0.1	< 6	0.5
B419432	3.68	1.5	73	0.01	590	5	16.2	1.6	20	16.6	0.4	674	69.69	< 2	8	> 30.0	0.4	5.4	15	1.5	0.5	< 6	0.9
B419433	1.88	7.5	169	0.05	293	5	73.6	8.2	30	9.5	2.0	525	75.02	< 2	< 8	> 30.0	1.9	11.8	16	6.2	0.3	9	6.6
B419434	4.40	1.9	35	< 0.01	90	4	20.1	1.6	20	17.8	0.3	737	75.24	< 2	< 8	> 30.0	0.5	6.2	19	2.5	0.1	< 6	0.8
B419435	0.69	13.7	19	0.03	60	3	87.6	16.3	20	12.7	4.1	81.6	70.61	< 2	< 8	> 30.0	5.1	2.8	21	12.4	0.9	< 6	12.2
B419436	4.50	1.9	278	0.07	143	7	125.7	2.9	20	18.8	0.8	1180	74.21	< 2	9	> 30.0	0.8	18.4	15	11.5	< 0.1	7	2.1
B419437	6.48	9.0	46	0.19	1870	2	63.4	13.9	30	32.9	3.1	1150	73.01	< 2	< 8	> 30.0	5.5	1.5	16	6.5	2.8	< 6	9.0
B419438	2.78	11.3	78	0.03	2530	2	89.7	19.2	60	15.5	4.4	605	74.65	< 2	18	> 30.0	8.5	7.9	21	9.3	2.1	< 6	6.6
B419439	1.52	3.7	26	0.01	1170	3	30.7	6.1	20	9.7	1.6	268	76.38	< 2	9	> 30.0	2.0	1.5	17	3.7	1.1	< 6	2.7
B419440	0.03	1.0	24	0.01	87	3	3.2	0.9	10	2.6	0.1	2.4	78.52	< 2	27	> 30.0	< 0.1	1.4	14	< 0.2	< 0.1	< 6	0.8
B419441	4.30	4.0	57	0.01	219	2	34.6	5.3	< 10	20.7	1.3	841	70.01	< 2	9	> 30.0	1.2	3.8	20	4.4	0.2	< 6	1.6
B419442	3.77	24.2	141	0.04	2760	< 1	97.7	30.4	20	22.7	7.8	782	72.88	< 2	9	> 30.0	12.3	9.0	11	15.7	2.3	< 6	18.7
B419443	1.98	15.4	165	0.02	2740	3	106.3	25.3	40	20.7	5.9	484	76.82	< 2	18	> 30.0	11.9	6.1	14	10.3	2.7	< 6	9.8
B419444	3.89	2.9	28	< 0.01	127	5	127.5	2.9	50	20.5	1.1	723	65.94	< 2	< 8	> 30.0	1.6	1.1	21	12.7	0.2	< 6	1.3
B419445	6.44	3.0	25	0.03	86	2	36.0	3.1	70	42.8	0.8	1180	72.00	< 2	17	> 30.0	1.5	2.6	14	8.0	0.2	< 6	2.0
B419446	1.74	4.1	148	0.02	449	2	59.8	6.7	20	18.5	1.2	466	73.13	< 2	< 8	> 30.0	4.2	7.9	14	8.5	0.3	11	2.3
B419447	4.44	8.2	124	0.02	631	2	57.1	9.7	20	23.1	2.7	958	74.39	< 2	< 8	> 30.0	4.5	9.9	19	11.6	0.9	< 6	3.9
B419448	6.20	3.1	193	0.04	324	3	69.2	2.9	20	35.0	1.1	1270	74.09	< 2	< 8	> 30.0	2.4	10.6	18	9.9	0.6	< 6	6.9
B419449	5.00	1.3	66	0.03	82	2	50.2	1.6	30	21.8	0.5	887	72.16	< 2	< 8	> 30.0	1.3	8.4	13	4.2	< 0.1	< 6	1.0
B419450	1.95	704	1830	0.88	375	7	1162.8	390	30	47.5	117	1230	75.08	12	17	> 30.0	52.2	753	283	17.9	3.3	< 6	101
B419451	8.73	1.6	19	< 0.01	90	42	15.5	1.4	130	33.8	0.3	1540	70.13	< 2	18	> 30.0	0.6	1.6	21	2.9	< 0.1	14	0.2
B419452	9.06	2.2	21	0.01	126	7	26.7	2.6	20	49.6	0.6	1600	69.94	< 2	< 8	> 30.0	1.2	3.1	19	5.3	0.2	11	0.8
B419453	0.04	1.1	15	0.63	6680	4	6.3	1.0	40	2.8	0.2	3.7	78.27	< 2	< 8	> 30.0	< 0.1	3.2	20	1.3	< 0.1	< 6	< 0.1

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B419454	11.32	2.2	6	< 0.01	144	2	9.3	2.0	< 10	58.1	0.2	1880	69.81	< 2	9	> 30.0	< 0.1	1.2	15	1.4	0.2	< 6	0.4
B419455	5.28	2.2	16	0.02	412	2	503.8	3.3	< 10	42.8	0.6	879	78.67	< 2	< 8	> 30.0	1.7	4.5	12	58.4	0.3	< 6	1.1
B419456	5.11	3.6	20	0.07	209	3	32.9	5.0	10	42.2	0.9	775	82.82	< 2	< 8	> 30.0	1.5	2.2	17	3.8	0.2	< 6	1.2
B419457	4.04	4.2	16	0.03	661	2	25.1	6.1	30	23.9	1.7	625	82.83	< 2	< 8	> 30.0	1.6	1.3	13	5.2	0.5	< 6	4.3
B419458	8.31	4.6	25	< 0.01	619	2	39.0	4.8	10	50.0	1.0	1310	75.90	< 2	< 8	> 30.0	3.1	0.5	16	6.0	0.5	< 6	2.7
B419459	0.85	31.4	284	12.95	1650	1	12.7	41.2	260	4.5	9.3	60.3	49.25	< 2	< 8	23.0	7.1	13.0	752	0.6	0.6	< 6	2.4
B419460	2.45	< 0.4	8920	0.02	731	5	35.8	0.5	20	12.0	< 0.1	618	77.22	< 2	17	> 30.0	0.3	143	29	20.2	< 0.1	11	0.3
B419461	5.84	12.6	168	0.05	854	< 1	65.0	22.0	40	25.0	4.5	1100	78.60	< 2	9	> 30.0	8.0	8.4	12	9.2	0.9	< 6	5.2
B419462	2.01	2.2	50	0.02	163	2	37.5	1.4	< 10	11.0	0.5	421	82.33	< 2	< 8	> 30.0	0.9	4.3	13	5.3	0.2	< 6	0.7
B419463	5.44	8.7	57	0.03	701	< 1	67.2	16.2	< 10	31.5	4.1	842	75.42	< 2	8	> 30.0	7.0	3.5	10	7.7	1.1	9	11.1
B419464	7.51	4.2	47	0.01	224	< 1	54.6	4.3	< 10	36.3	1.5	1260	75.55	< 2	9	> 30.0	2.4	2.7	13	8.9	0.3	< 6	2.1
B419465	0.31	20.5	70	0.03	> 10000	5	104.4	34.3	30	17.2	7.5	67.8	76.57	< 2	17	> 30.0	17.1	2.4	15	10.8	13.1	< 6	20.1
B419466	2.54	14.0	212	0.05	332	< 1	92.4	17.8	< 10	68.4	4.5	641	77.65	< 2	17	> 30.0	6.2	14.5	13	9.8	0.6	< 6	11.6
B419467	4.84	2.0	40	0.01	637	< 1	6.4	0.9	< 10	22.6	0.3	833	78.48	< 2	< 8	> 30.0	0.8	3.3	17	0.8	0.2	< 6	0.6
B419468	0.57	3.4	85	0.07	475	3	57.4	2.1	10	8.1	0.5	160	76.73	< 2	< 8	> 30.0	1.1	5.1	14	9.2	0.2	< 6	0.7
B419469	7.81	3.9	64	0.01	212	3	42.0	4.5	< 10	47.4	1.4	1340	73.31	< 2	< 8	> 30.0	1.2	2.1	16	6.4	0.5	7	4.6
B419470	< 0.01	0.9	19	0.01	64	2	3.0	< 0.4	10	1.3	0.2	3.4	82.44	< 2	< 8	> 30.0	0.3	< 0.5	14	0.2	< 0.1	< 6	0.5
B419471	1.48	7.5	115	0.04	324	3	75.5	6.9	40	15.0	2.1	352	75.89	< 2	< 8	> 30.0	3.8	6.3	12	6.6	0.3	< 6	4.3
B419472	4.41	3.8	25	0.04	198	4	33.5	4.6	10	24.3	1.2	831	49.99	< 2	< 8	23.4	1.8	4.7	18	8.5	0.3	< 6	2.3
B419473	7.28	4.3	46	0.01	114	4	22.4	3.6	10	43.9	1.1	1340	70.91	< 2	17	> 30.0	1.9	2.4	15	3.8	0.3	< 6	3.6
B419474	3.88	2.6	26	0.01	384	7	18.3	4.9	10	20.4	1.0	681	80.05	< 2	< 8	> 30.0	0.7	0.9	11	4.7	0.4	7	1.2
B419475	2.68	17.2	401	11.39	1200	< 1	7.7	36.9	190	10.4	6.8	276	48.57	< 2	< 8	22.7	6.2	4.9	1080	0.8	0.8	7	6.8
B419476	0.31	8.7	40	0.08	303	4	73.0	14.0	20	23.4	3.0	83.5	74.16	< 2	< 8	> 30.0	5.5	15.8	56	18.9	0.6	< 6	5.0
B419477	3.81	6.5	15	0.02	833	2	42.3	10.5	< 10	28.0	2.4	730	66.89	< 2	< 8	> 30.0	3.3	4.6	18	7.9	0.5	< 6	6.2
B419478	0.17	55.3	72	0.06	> 10000	2	71.8	84.4	< 10	8.5	22.7	36.1	69.26	< 2	< 8	> 30.0	33.0	9.1	21	11.6	17.0	< 6	58.3

Analyte Symbol	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1

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Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419479	0.62	22.5	41	0.05	> 10000	3	71.0	36.4	20	6.0	9.7	247	70.42	< 2	9	> 30.0	13.0	14.5	25	21.8	4.2	< 6	20.4
B419480	1.93	678	1790	0.87	380	9	1158.2	378	20	26.8	118	1160	75.15	10	9	> 30.0	51.4	731	284	18.2	2.8	7	96.8
B419481	0.23	41.5	58	0.03	> 10000	6	148.5	54.9	< 10	26.8	12.8	81.3	66.95	< 2	< 8	> 30.0	17.0	5.5	14	24.3	4.4	< 6	46.1
B419482	7.34	1.7	38	0.01	144	3	12.9	0.7	80	54.2	0.3	1820	65.36	< 2	< 8	> 30.0	0.7	5.6	12	3.1	< 0.1	< 6	0.6
B419483	4.40	7.4	83	0.03	114	4	39.9	10.5	90	19.1	2.9	1090	64.77	< 2	< 8	> 30.0	4.9	17.5	19	10.3	0.4	< 6	3.4
B419484	4.58	1.6	67	0.03	115	2	29.4	1.6	10	23.6	0.4	1010	74.32	< 2	22	> 30.0	0.7	10.7	29	5.2	< 0.1	< 6	1.0
B419485	3.45	5.7	272	0.09	250	2	80.3	7.4	< 10	16.7	1.7	1020	73.23	< 2	25	> 30.0	1.3	25.5	11	6.7	0.2	< 6	2.4
B419486	0.44	0.7	10	0.09	59	6	4.2	1.6	< 10	1.0	0.2	40.7	89.06	< 2	< 8	> 30.0	0.5	< 0.5	94	0.7	< 0.1	< 6	3.6

Analyte Symbol	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419376	< 0.01	7.6	0.2	6.0	< 5	2.3	39.4	1.6	30
B419377	< 0.01	6.4	0.2	0.9	< 5	1.8	30.0	1.2	50
B419378	0.01	1.3	< 0.1	1.2	< 5	1.5	2.5	< 0.1	80
B419379	0.01	7.7	< 0.1	0.6	< 5	1.0	3.4	0.3	40
B419380	0.04	< 0.1	< 0.1	0.3	< 5	0.9	0.6	0.2	< 30
B419381	0.02	6.9	< 0.1	1.1	< 5	1.3	4.0	0.5	30
B419382	< 0.01	6.6	< 0.1	0.5	< 5	1.2	4.3	< 0.1	30
B419383	< 0.01	6.6	< 0.1	0.5	< 5	1.0	2.5	0.6	30
B419384	0.01	4.8	< 0.1	0.6	< 5	< 0.7	4.8	0.4	< 30
B419385	< 0.01	3.6	< 0.1	0.4	< 5	1.2	2.0	0.2	30
B419386	< 0.01	2.9	0.5	4.7	< 5	0.9	33.3	4.3	< 30
B419387	< 0.01	10.2	< 0.1	0.3	< 5	< 0.7	1.8	0.3	50
B419388	< 0.01	8.2	< 0.1	0.2	< 5	8.8	0.8	0.2	40
B419389	< 0.01	1.8	< 0.1	0.4	< 5	4.0	1.6	0.1	< 30
B419390	0.80	10.4	0.3	16.3	58	5.6	28.4	1.5	150
B419391	0.01	4.0	< 0.1	0.2	< 5	1.6	2.3	0.1	40
B419392	< 0.01	1.1	0.1	1.1	< 5	< 0.7	8.2	1.0	30
B419393	< 0.01	9.3	< 0.1	0.4	< 5	< 0.7	1.5	0.2	< 30
B419394	0.02	2.8	0.6	5.2	< 5	1.3	50.3	3.9	90
B419395	0.01	9.1	< 0.1	4.1	< 5	1.0	13.0	0.9	80
B419396	< 0.01	12.9	< 0.1	1.1	< 5	< 0.7	13.8	0.3	< 30
B419400	< 0.01	3.7	< 0.1	6.0	< 5	6.7	0.4	< 0.1	110
B419402	0.02	7.9	< 0.1	1.0	< 5	1.2	4.5	0.5	40
B419403	< 0.01	5.2	< 0.1	0.3	< 5	< 0.7	4.4	0.3	30
B419404	< 0.01	6.5	0.1	4.9	< 5	0.8	17.0	1.0	30
B419405	0.01	2.7	< 0.1	0.3	< 5	0.9	4.1	0.3	30
B419406	< 0.01	8.5	< 0.1	1.1	< 5	< 0.7	8.4	0.3	< 30
B419407	< 0.01	1.2	< 0.1	1.7	< 5	< 0.7	10.3	0.2	30

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B419408	< 0.01	10.6	< 0.1	1.4	< 5	< 0.7	10.7	0.3	< 30
B419409	0.02	5.1	0.6	15.2	< 5	0.7	55.0	5.4	30
B419410	0.04	< 0.1	< 0.1	0.3	< 5	< 0.7	0.6	< 0.1	< 30
B419411	< 0.01	14.3	< 0.1	0.4	< 5	1.0	1.3	< 0.1	< 30
B419412	< 0.01	1.1	< 0.1	0.8	< 5	1.9	9.8	0.6	30
B419413	< 0.01	8.5	< 0.1	0.6	< 5	2.0	13.5	0.8	< 30
B419414	< 0.01	3.8	< 0.1	1.6	< 5	2.1	25.3	1.3	50
B419415	< 0.01	3.6	< 0.1	0.9	< 5	1.3	14.3	0.7	< 30
B419416	< 0.01	7.4	< 0.1	1.5	< 5	< 0.7	12.4	0.3	40
B419417	0.03	6.7	< 0.1	1.0	< 5	1.8	2.7	0.4	110
B419418	0.79	0.1	0.4	0.3	268	0.7	21.8	2.6	130
B419419	0.05	4.3	0.1	3.8	< 5	< 0.7	9.1	0.8	< 30
B419420	0.79	12.5	0.3	16.2	69	6.4	31.2	1.7	160
B419421	0.06	< 0.1	0.2	0.3	20	1.3	9.9	1.0	270
B419422	0.02	2.6	0.2	4.7	< 5	< 0.7	16.2	1.1	< 30
B419423	< 0.01	6.3	< 0.1	1.2	< 5	< 0.7	1.7	< 0.1	< 30
B419424	< 0.01	10.8	< 0.1	0.3	< 5	2.7	< 0.1	0.2	< 30
B419425	< 0.01	3.5	0.5	1.8	< 5	1.8	53.7	3.9	120
B419426	< 0.01	6.8	< 0.1	3.5	< 5	2.7	11.5	0.6	50
B419427	0.01	6.2	0.2	2.2	< 5	1.4	11.2	0.8	60
B419428	< 0.01	2.0	< 0.1	0.9	< 5	1.4	2.3	0.4	< 30

Analyte Symbol	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419429	0.02	2.7	< 0.1	1.9	< 5	< 0.7	4.9	0.6	30
B419430	< 0.01	3.6	< 0.1	6.2	5	5.9	1.1	< 0.1	80
B419431	< 0.01	4.9	< 0.1	0.7	< 5	1.8	2.1	0.4	30
B419432	< 0.01	4.2	< 0.1	0.7	< 5	0.9	10.7	0.6	40
B419433	0.02	2.6	0.1	1.5	< 5	1.0	10.7	0.4	80
B419434	< 0.01	4.5	< 0.1	0.2	< 5	< 0.7	1.3	0.5	< 30
B419435	0.01	0.5	0.4	4.3	< 5	< 0.7	26.4	3.2	< 30

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B419436	0.03	5.3	<0.1	0.4	<5	1.3	1.5	0.2	130
B419437	<0.01	7.7	1.2	1.4	<5	2.2	169	8.2	70
B419438	0.01	3.2	0.9	1.5	<5	1.4	146	4.9	130
B419439	<0.01	1.5	0.2	0.9	<5	3.7	39.7	1.3	40
B419440	0.04	<0.1	<0.1	0.3	<5	<0.7	0.8	<0.1	50
B419441	<0.01	6.0	<0.1	1.3	<5	<0.7	5.0	0.3	30
B419442	0.02	4.5	1.8	4.1	<5	<0.7	160	14.1	90
B419443	0.01	2.4	1.0	2.0	<5	2.5	133	5.9	280
B419444	<0.01	4.3	<0.1	0.9	<5	2.4	6.6	0.2	<30
B419445	0.01	7.3	<0.1	0.7	<5	<0.7	5.9	0.6	40
B419446	<0.01	2.2	0.1	0.8	<5	2.4	21.8	1.8	120
B419447	0.01	6.0	0.2	0.8	<5	3.0	31.3	1.3	90
B419448	0.02	7.8	0.5	3.8	<5	1.6	33.0	2.0	80
B419449	<0.01	5.5	<0.1	0.8	<5	1.5	4.0	0.3	40
B419450	0.79	10.8	0.3	16.5	65	5.3	32.8	1.8	140
B419451	<0.01	10.1	<0.1	0.5	<5	14.8	0.5	0.1	<30
B419452	<0.01	9.6	<0.1	0.7	5	1.4	4.9	0.4	30
B419453	0.03	<0.1	<0.1	0.2	27	<0.7	9.2	1.4	80
B419454	<0.01	12.1	<0.1	0.3	<5	2.9	5.7	0.4	<30
B419455	<0.01	5.1	0.2	1.5	<5	4.5	14.9	1.6	40
B419456	0.01	4.5	<0.1	0.6	<5	<0.7	5.7	0.4	<30
B419457	0.02	3.1	0.3	2.2	<5	<0.7	25.5	2.2	30
B419458	<0.01	7.5	0.2	5.2	<5	1.2	20.9	1.3	<30
B419459	0.72	0.4	0.2	0.4	221	<0.7	14.7	1.4	110
B419460	<0.01	3.6	<0.1	5.9	6	7.7	0.8	0.1	90
B419461	0.01	5.8	0.2	0.8	<5	2.3	30.2	1.5	40
B419462	<0.01	2.3	<0.1	1.0	<5	1.3	5.4	0.3	<30
B419463	0.01	4.9	0.5	5.1	<5	1.4	39.1	4.3	60
B419464	<0.01	7.2	0.1	3.6	<5	0.8	7.2	0.3	60
B419465	<0.01	0.3	6.6	17.3	<5	<0.7	684	42.6	80
B419466	0.02	2.6	0.3	2.7	<5	1.0	15.4	1.3	340
B419467	<0.01	5.5	0.1	0.3	<5	<0.7	14.4	0.8	180
B419468	0.05	0.9	<0.1	0.8	<5	<0.7	5.5	0.3	150
B419469	<0.01	8.8	0.1	2.1	<5	2.1	16.1	1.8	30
B419470	0.04	<0.1	<0.1	0.2	<5	<0.7	1.0	<0.1	<30
B419471	0.02	1.8	0.2	1.6	<5	0.9	14.5	1.1	50
B419472	<0.01	5.2	0.1	3.0	<5	<0.7	12.8	1.4	<30

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B419473	< 0.01	8.1	0.1	2.4	< 5	< 0.7	11.4	0.7	50
B419474	< 0.01	3.9	0.1	0.6	< 5	1.1	19.7	1.0	30
B419475	0.82	1.8	0.1	1.7	200	2.3	17.6	1.0	120
B419476	0.02	0.3	< 0.1	8.7	< 5	1.4	15.6	0.6	50
B419477	0.02	4.5	0.3	1.6	< 5	< 0.7	28.7	2.0	< 30
B419478	0.02	0.2	13.6	7.6	< 5	< 0.7	> 1000	115	110

Analyte Symbol	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419479	0.02	1.0	3.3	5.6	< 5	< 0.7	402	23.5	80
B419480	0.78	10.8	0.2	16.1	64	4.8	29.6	1.7	120
B419481	< 0.01	0.4	2.9	17.7	< 5	< 0.7	344	25.2	80
B419482	< 0.01	12.4	< 0.1	0.5	< 5	1.1	3.2	0.3	< 30
B419483	< 0.01	5.8	< 0.1	0.9	< 5	0.8	17.3	0.6	< 30
B419484	0.01	5.6	< 0.1	1.1	< 5	< 0.7	5.0	0.4	< 30
B419485	0.05	4.8	< 0.1	0.5	< 5	< 0.7	7.4	0.5	80
B419486	0.02	0.2	< 0.1	1.5	< 5	< 0.7	4.4	0.3	< 30

Analyte Symbol	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3 (T)	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
PTM-1a Meas		2070								> 5000			> 10000										
PTM-1a Cert		2200								20500.00			249600.00										
PTM-1a Meas		2110								> 5000			> 10000										
PTM-1a Cert		2200								20500.00			249600.00										
NIST 696 Meas	51.10						< 0.01				340						8.12						
NIST 696 Cert	54.5						0.018				321.0						8.70						
NIST 696 Meas											340												
NIST 696 Cert											321.0												
Oreas 74a (Fusion) Meas	2.20	59								517	1740		1170										
Oreas 74a (Fusion) Cert	2.21	50								581			1240.00										
Oreas 74a (Fusion) Meas		46								518	1780		1190										
Oreas 74a (Fusion) Cert		50								581			1240.00										
OREAS 101a (Fusion) Meas									1400	46.7			413	32.6	18.5	7.9			36.5		6.5		
OREAS 101a (Fusion) Cert									1396	48.8			434	33.3	19.5	8.06			43.4		6.46		
NCS DC8631 5 Meas	13.52						0.41										0.61						



NCS DC8631 5 Cert	14.5					0.71														0.68
NCS DC8631 4 Meas	24.27					0.13														0.27
NCS DC8631 4 Cert	24.5					0.063														0.30
CZN-4 Meas		340					2420		93.3			4030								
CZN-4 Cert		356.00 00					2604.0 000		93.5			4030.0 00								
CZN-4 Meas		356					2800		103			4160								
CZN-4 Cert		356.00 00					2604.0 000		93.5			4030.0 00								
OREAS 183 (Fusion ICP) Meas	1.61					0.57			206											
OREAS 183 (Fusion ICP) Cert	1.60					0.720			222											
OREAS 183 (Fusion ICP) Meas	1.51					0.67														
OREAS 183 (Fusion ICP) Cert	1.60					0.720														
OREAS 922 (Peroxid e Fusion) Meas																				
OREAS 922 (Peroxid e Fusion) Cert																				



OREAS 621 (Peroxide Fusion) Meas		79		2630	< 3	4		272	55.3	29.2	80	4.2	3610					28.3					1.5
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Analyte Symbol	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3 (T)	Ga	Gd	Ge	Ho	Hf	In	
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2	10	0.2	
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	
OREAS 621 (Peroxide Fusion) Cert		85		2610	2	4		295	52.0	31.4	50	3.6	3680					26.5					1.9	
CCU-1e Meas		1070						69		302			> 10000											
CCU-1e Cert		1010						74.2		301			229000											
CCU-1e Meas		1050						73		288			> 10000											
CCU-1e Cert		1010						74.2		301			229000											
OREAS 680 (Peroxide Fusion) Meas																								
OREAS 680 (Peroxide Fusion) Cert																								
OREAS 139 (Peroxide Fusion) Meas		319			3	8		287	51.6	27.5		3.3	297		1.7			10.7					0.8	
OREAS 139 (Peroxide Fusion) Cert		332			3.17	6.64		296	49.4	26.0		3.21	274		1.69			10.2					0.690	



OREAS 624 (Peroxide Fusion) Meas		118		1030		21		136	32.5	276		0.9	> 10000					25.7				3.6
OREAS 624 (Peroxide Fusion) Cert		115		1070		21.3		133	32.9	273		1.32	30800					22.1				4.14
OREAS 124 (Peroxide Fusion) Meas				1080		< 3			46.1		80			3.3	1.6	1.8		11.2	4.6		0.7	< 10
OREAS 124 (Peroxide Fusion) Cert				1020		1.83			47.6		51.0			2.82	1.60	1.15		10.5	3.47		0.580	6.22
AMIS 0346 (Peroxide Fusion) Meas																						
AMIS 0346 (Peroxide Fusion) Cert																						
AMIS 0346 (Peroxide Fusion) Meas																						
AMIS 0346 (Peroxide Fusion) Cert																						
AMIS 0346 (Peroxide Fusion) Meas																						
AMIS 0346																						



B419426 Orig	10.46	< 5	< 10	16	< 3	< 2	0.07	< 2	3.2	< 0.2	60	7.6	10	1.6	0.7	< 0.1	0.57	19.2	2.0	1.7	0.3	< 10	< 0.2
B419426 Dup	10.37	< 5	< 10	< 3	< 3	< 2	0.08	< 2	2.8	0.6	70	8.6	17	1.7	0.7	< 0.1	0.58	19.9	1.7	2.1	0.3	< 10	< 0.2
B419429 Orig	14.20	< 5	< 10	4	< 3	17	0.45	< 2	14.3	1.4	60	6.6	10	1.2	0.2	< 0.1	0.69	33.6	2.1	2.9	< 0.2	< 10	< 0.2
B419429 Split PREP DUP	14.20	< 5	< 10	6	< 3	21	0.43	< 2	16.4	0.8	60	8.0	11	1.1	0.4	< 0.1	0.76	37.7	2.1	2.4	0.2	30	< 0.2
B419437 Orig	14.63	5	10	12	< 3	8	0.23	< 2	24.8	1.1	70	17.3	20	18.1	8.0	< 0.1	3.28	27.5	10.1	4.3	2.8	< 10	< 0.2
B419437 Dup	14.62	< 5	10	8	< 3	8	0.28	< 2	24.6	2.1	60	16.1	10	17.8	7.9	< 0.1	1.02	33.1	11.3	2.9	3.1	< 10	< 0.2
B419453 Orig	2.62	8	< 10	4	5	< 2	5.36	< 2	1.9	2.9	90	0.5	66	0.8	1.1	0.2	7.80	5.7	0.8	7.2	< 0.2	< 10	< 0.2
B419453 Dup	2.61	< 5	< 10	< 3	5	< 2	5.34	< 2	2.2	3.2	90	0.4	68	1.1	0.8	0.2	7.80	5.9	1.0	6.1	< 0.2	< 10	0.2
B419456 Orig	11.46	< 5	10	13	< 3	6	0.15	< 2	8.0	1.5	70	4.1	16	0.8	0.3	< 0.1	0.68	25.9	1.0	1.7	< 0.2	< 10	< 0.2
B419456 Dup	11.55	< 5	40	17	< 3	7	0.15	< 2	8.6	0.5	90	5.7	9	0.7	0.2	< 0.1	0.68	25.0	0.6	2.3	< 0.2	< 10	< 0.2
B419470 Orig	0.20	< 5	< 10	3	< 3	< 2	< 0.01	< 2	2.1	0.7	50	0.2	8	< 0.3	< 0.1	< 0.1	0.44	0.9	< 0.1	1.6	< 0.2	< 10	< 0.2
B419470 Dup	0.23	< 5	< 10	8	< 3	< 2	0.05	< 2	2.2	0.7	50	0.6	11	< 0.3	0.2	< 0.1	0.48	0.2	0.6	0.8	< 0.2	< 10	< 0.2
B419477 Orig	13.56	< 5	< 10	9	3	< 2	0.11	< 2	17.7	0.8	50	7.8	15	2.0	1.0	< 0.1	0.61	32.4	2.3	3.5	0.4	< 10	< 0.2
B419477 Dup	13.86	< 5	< 10	15	< 3	< 2	0.23	< 2	21.4	0.2	50	8.9	17	3.5	1.9	< 0.1	0.64	34.4	3.1	2.6	0.6	10	< 0.2
B419479 Orig	13.13	< 5	< 10	13	5	< 2	0.23	< 2	69.2	< 0.2	60	4.2	17	31.8	18.9	< 0.1	2.44	54.2	15.8	6.3	6.5	20	< 0.2
B419479 Split PREP DUP	13.48	< 5	< 10	14	5	< 2	0.25	< 2	72.0	0.9	50	4.6	14	34.4	18.3	< 0.1	2.45	56.9	16.7	7.7	6.5	20	< 0.2
B419484 Orig	11.27	< 5	< 10	15	< 3	< 2	0.16	< 2	3.9	0.3	70	24.9	11	0.7	0.5	< 0.1	0.71	31.0	1.0	2.8	< 0.2	< 10	< 0.2
B419484 Dup	11.23	< 5	< 10	34	< 3	< 2	0.09	< 2	3.1	0.7	60	25.7	15	0.5	0.2	< 0.1	0.71	32.0	0.8	3.8	< 0.2	< 10	< 0.2
B419485 Orig	16.90	< 5	< 10	< 3	< 3	< 2	0.26	< 2	12.8	0.5	50	10.8	6	1.0	0.6	< 0.1	1.13	73.7	1.1	1.9	< 0.2	< 10	0.6
B419485 Dup	16.57	< 5	< 10	< 3	3	< 2	0.18	< 2	15.3	0.4	40	9.1	8	1.1	0.7	< 0.1	1.13	77.9	1.7	2.5	< 0.2	< 10	0.7
B419486 Orig	7.98	< 5	< 10	45	< 3	< 2	2.42	< 2	2.4	< 0.2	80	1.4	4	< 0.3	0.6	0.1	0.41	9.8	0.6	0.9	< 0.2	< 10	< 0.2
B419486 Split PREP DUP	8.81	13	< 10	49	< 3	< 2	2.65	< 2	3.1	1.4	70	1.9	14	0.7	0.2	0.2	0.44	12.7	0.5	1.3	< 0.2	< 10	< 0.2
Method Blank	< 0.01						< 0.01										< 0.01						
Method Blank	< 0.01	< 5	< 10	< 3	< 3	< 2	0.03	< 2	< 0.8	1.4	60	0.3	< 2	< 0.3	< 0.1	< 0.1	< 0.01	0.3	< 0.1	< 0.7	< 0.2	< 10	< 0.2
Method Blank	< 0.01	< 5	< 10	4	< 3	< 2	< 0.01	< 2	< 0.8	0.7	50	0.7	6	< 0.3	< 0.1	< 0.1	0.02	< 0.2	< 0.1	< 0.7	< 0.2	< 10	< 0.2



Method Blank	< 0.01	6	< 10	< 3	< 3	< 2	0.05	< 2	< 0.8	< 0.2	100	0.4	10	< 0.3	0.1	< 0.1	0.01	< 0.2	< 0.1	< 0.7	< 0.2	< 10	< 0.2
Method Blank	< 0.01	< 5	< 10	< 3	< 3	< 2	< 0.01	< 2	< 0.8	0.9	30	0.6	6	< 0.3	< 0.1	< 0.1	< 0.01	0.4	< 0.1	< 0.7	< 0.2	< 10	< 0.2
Method Blank	< 0.01	< 5	< 10	< 3	< 3	< 2	< 0.01	< 2	< 0.8	0.8	50	< 0.1	5	< 0.3	< 0.1	< 0.1	< 0.01	0.3	< 0.1	< 0.7	< 0.2	< 10	< 0.2
Method Blank	< 0.01						< 0.01										< 0.01						

Analyte Symbol	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
PTM-1a Meas									> 10000														
PTM-1a Cert									474400.00														
PTM-1a Meas									> 10000														
PTM-1a Cert									474400.00														
NIST 696 Meas	0.02			0.01									3.61										
NIST 696 Cert	0.0090			0.012									3.79										
NIST 696 Meas																							
NIST 696 Cert																							
Oreas 74a (Fusion) Meas				26.96					> 10000				32.54			15.2							
Oreas 74a (Fusion) Cert				27.9					32400.00				32.4			15.1							
Oreas 74a (Fusion) Meas									> 10000														
Oreas 74a (Fusion) Cert									32400.00														
OREAS 101a (Fusion) Meas		810			972	23		387			126						50.8				6.4		34.7
OREAS 101a (Fusion) Cert		816			964	21.9		403			134						48.8				5.92		36.6
NCS DC8631 5 Meas	3.73			0.08									68.86										
NCS DC8631 5 Cert	4.11			0.093									72.3										

NCS DC8631 4 Meas	7.70			0.02								54.87								
NCS DC8631 4 Cert	7.75			0.027								53.9 2								
CZN-4 Meas								1920						140	0.28					
CZN-4 Cert								1861.0 000						86.7	0.29 5					
CZN-4 Meas								1850						62						
CZN-4 Cert								1861.0 000						86.7						
OREAS 183 (Fusion ICP) Meas				27.67				> 10000				44.70								
OREAS 183 (Fusion ICP) Cert				27.43				9830.0 00				44.1 3								
OREAS 183 (Fusion ICP) Meas				26.64								40.53								
OREAS 183 (Fusion ICP) Cert				27.43								44.1 3								
OREAS 922 (Peroxid e Fusion) Meas														> 30.0						
OREAS 922 (Peroxid e Fusion) Cert														30.51						
OREAS 621 (Peroxid e Fusion) Meas		28.7			531	21	10.8	21.9	> 5000	6.2	92.1	145		29.1			103			8.9

OREAS 621		26.1			554	14	10.4	24.2		13300	6.64	89.0		146		28.1			101				8.6
Analyte Symbol	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUS-Na2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2	FUSMSNa2O 2
(Peroxide Fusion) Cert																							
CCU-1e Meas					105					> 5000			3.18	116									63
CCU-1e Cert					96.0					7030			3.13	104									61.8
CCU-1e Meas					92					> 5000				115									68
CCU-1e Cert					96.0					7030				104									61.8
OREAS 680 (Peroxide Fusion) Meas																21.8							
OREAS 680 (Peroxide Fusion) Cert																20.6							
OREAS 139 (Peroxide Fusion) Meas		25.8	50		6310	10				> 5000		143		64		15.9			495		0.7		8.3
OREAS 139 (Peroxide Fusion) Cert		23.1	40.4		6570	11.1				22000		145		63.0		16.34			479		0.500		7.54
OREAS 624 (Peroxide Fusion) Meas		15.3	8		674	16	6.4	16.5		> 5000	3.8	33.2		72		19.4			43				4.1
OREAS 624		17.3	10.3		660	17.8	5.78	16.8		6120	4.27	33.0		72.0		20.5			47.6				4.12

(Peroxide Fusion) Cert																					
OREAS 124 (Peroxide Fusion) Meas	20.5		682		20.1		5.1	87.6		3.9						0.7				5.4	
OREAS 124 (Peroxide Fusion) Cert	21.6		700		20.8		5.39	86.0		4.21						0.480				5.74	
AMIS 0346 (Peroxide Fusion) Meas																					
AMIS 0346 (Peroxide Fusion) Cert																					
AMIS 0346 (Peroxide Fusion) Meas																					
AMIS 0346 (Peroxide Fusion) Cert																					
AMIS 0346 (Peroxide Fusion) Meas																					
AMIS 0346 (Peroxide Fusion) Cert																					
AMIS 0346 (Peroxide Fusion) Meas																					
AMIS 0346 (Peroxide Fusion) Cert																					
OREAS 148 (Peroxide Fusion) Meas																					> 30.0

B41943 7 Dup	6.53	9.2	37	0.19	1830	2	62.8	14.3	20	29.6	3.3	1140	73.02	<2	<8	> 30.0	5.3	1.3	13	6.4	2.8	<6	8.8
B41945 3 Orig	0.05	1.0	15	0.64	6560	2	6.5	0.7	30	2.2	0.2	2.8	79.08	<2	<8	> 30.0	<0.1	2.4	24	1.3	<0.1	<6	0.1
B41945 3 Dup	0.03	1.2	15	0.63	6800	5	6.2	1.3	50	3.3	0.2	4.5	77.47	<2	18	> 30.0	0.6	4.0	17	1.3	0.1	18	<0.1
B41945 6 Orig	5.11	3.4	19	0.07	196	3	33.6	4.3	20	46.4	0.8	777	83.36	<2	17	> 30.0	1.5	3.1	16	3.9	0.2	9	1.0
B41945 6 Dup	5.11	3.8	20	0.07	222	3	32.1	5.7	10	38.0	0.9	774	82.29	<2	<8	> 30.0	1.4	1.2	19	3.7	0.1	<6	1.3
B41947 0 Orig	< 0.01	1.0	19	0.01	60	3	2.8	1.1	10	1.2	0.1	3.5	79.27	<2	<8	> 30.0	0.3	0.9	10	0.3	<0.1	7	0.5
B41947 0 Dup	0.03	0.7	19	0.01	68	1	3.1	<0.4	10	1.3	0.2	3.3	85.61	<2	16	> 30.0	0.3	<0.5	18	0.2	<0.1	<6	0.4
B41947 7 Orig	3.77	7.0	15	0.02	857	2	42.1	9.7	<10	29.6	2.2	734	69.92	<2	<8	> 30.0	3.1	4.6	18	7.9	0.4	<6	5.8
B41947 7 Dup	3.85	6.1	15	0.02	810	3	42.5	11.4	20	26.3	2.6	726	63.85	<2	35	> 29.9	3.5	4.6	17	7.8	0.7	<6	6.5
B41947 9 Orig	0.62	22.5	41	0.05	> 10000	3	71.0	36.4	20	6.0	9.7	247	70.42	<2	9	> 30.0	13.0	14.5	25	21.8	4.2	<6	20.4
B41947 9 Split PREP DUP	0.66	26.3	41	0.05	> 10000	2	84.3	35.9	20	7.0	10.0	241	71.49	<2	18	> 30.0	14.5	15.0	24	26.3	4.7	7	20.1
B41948 4 Orig	4.55	1.7	67	0.03	123	2	29.6	1.5	10	22.1	0.4	999	72.09	<2	27	> 30.0	0.4	10.5	29	5.2	<0.1	<6	0.9
B41948 4 Dup	4.61	1.5	68	0.03	108	1	29.3	1.6	10	25.1	0.5	1020	76.55	<2	18	> 30.0	1.0	10.8	29	5.1	0.2	<6	1.0
B41948 5 Orig	3.54	5.8	252	0.08	245	2	79.6	6.8	<10	15.6	1.6	1020	72.92	<2	34	> 30.0	1.3	24.5	11	6.3	0.2	<6	2.3
B41948 5 Dup	3.37	5.6	292	0.09	255	2	80.9	8.0	<10	17.7	1.8	1030	73.54	<2	16	> 30.0	1.3	26.5	12	7.2	0.2	<6	2.6
B41948 6 Orig	0.44	0.7	10	0.09	59	6	4.2	1.6	<10	1.0	0.2	40.7	89.06	<2	<8	> 30.0	0.5	<0.5	94	0.7	<0.1	<6	3.6
B41948 6 Split PREP DUP	0.49	1.0	14	0.10	58	8	5.2	1.7	20	6.8	0.2	39.4	87.06	<2	27	> 30.0	0.3	0.7	104	0.8	<0.1	<6	4.3
Method Blank	< 0.01			< 0.01									< 0.01			< 0.01							
Method Blank	0.04	<0.4	<3	< 0.01	5	<1	3.5	<0.4	20	4.0	<0.1	3.2	< 0.01	<2	<8	< 0.01	<0.1	1.1	15	<0.2	<0.1	<6	<0.1
Method Blank	0.03	<0.4	5	< 0.01	4	1	3.9	<0.4	20	7.0	<0.1	2.0	< 0.01	<2	32	< 0.01	<0.1	0.6	11	0.2	<0.1	12	<0.1
Method Blank	0.05	<0.4	9	< 0.01	9	<1	4.8	<0.4	20	4.0	<0.1	3.1	< 0.01	<2	18	< 0.01	0.2	<0.5	21	0.4	<0.1	14	<0.1
Method Blank	< 0.01	<0.4	9	< 0.01	8	1	2.7	<0.4	<10	<0.8	<0.1	1.4	< 0.01	<2	17	< 0.01	<0.1	1.2	9	0.6	<0.1	<6	<0.1
Method Blank	< 0.01	<0.4	7	< 0.01	5	1	3.1	<0.4	<10	1.6	<0.1	2.2	< 0.01	<2	18	< 0.01	<0.1	1.0	10	0.2	<0.1	15	<0.1
Method Blank	< 0.01			< 0.01									< 0.01			< 0.01							

Analyte Symbol	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm

Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
PTM-1a Meas									
PTM-1a Cert									
PTM-1a Meas									
PTM-1a Cert									
NIST 696 Meas	2.42					387			
NIST 696 Cert	2.64				403.00 00				
NIST 696 Meas						385			
NIST 696 Cert					403.00 00				
Oreas 74a (Fusion) Meas									
Oreas 74a (Fusion) Cert									
Oreas 74a (Fusion) Meas									
Oreas 74a (Fusion) Cert									
OREAS 101a (Fusion) Meas			2.6	408	77		208	19.5	
OREAS 101a (Fusion) Cert			2.90	422	83		183	17.5	
NCS DC86315 Meas	0.04								
NCS DC86315 Cert	0.039								
NCS DC86314 Meas	0.03								
NCS DC86314 Cert	0.029								

CZN-4 Meas									> 10000
CZN-4 Cert									550700
CZN-4 Meas									> 10000
CZN-4 Cert									550700 .00
OREAS 183 (Fusion ICP) Meas	0.02								100
OREAS 183 (Fusion ICP) Cert									82
OREAS 183 (Fusion ICP) Meas	0.02								
OREAS 183 (Fusion ICP) Cert									
OREAS 922 (Peroxide Fusion) Meas									
OREAS 922 (Peroxide Fusion) Cert									
OREAS 621 (Peroxide Fusion) Meas		2.1		2.9	35	3.4	12.9	0.9	> 10000
OREAS 621		2.0		3.0	36.3	2.6	13.9	1.03	52200

Analyte Symbol	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
(Peroxide Fusion) Cert									
CCU-1e Meas		2.5							> 10000

CCU-1e Cert		2.69							30200
CCU-1e Meas		2.7							> 10000
CCU-1e Cert		2.69							30200
OREAS 680 (Peroxide Fusion) Meas									
OREAS 680 (Peroxide Fusion) Cert									
OREAS 139 (Peroxide Fusion) Meas		36.1		13.1			18.5		> 10000
OREAS 139 (Peroxide Fusion) Cert		35.4		12.2			17.1		133600.00
OREAS 624 (Peroxide Fusion) Meas		0.9		1.3	33	5.3	14.9	1.5	> 10000
OREAS 624 (Peroxide Fusion) Cert		0.940		1.34	43.3	4.58	17.3	1.94	24100
OREAS 124 (Peroxide Fusion) Meas			0.3	1720	29		16.2	2.0	
OREAS 124 (Peroxide Fusion) Cert			0.220	1790	23.3		14.2	1.63	
AMIS 0346 (Peroxide Fusion) Meas					2800				
AMIS 0346 (Peroxide Fusion) Cert					2700				
AMIS 0346					2760				

(Peroxide Fusion) Meas									
AMIS 0346 (Peroxide Fusion) Cert					2700				
AMIS 0346 (Peroxide Fusion) Meas					2830				
AMIS 0346 (Peroxide Fusion) Cert					2700				
OREAS 148 (Peroxide Fusion) Meas									
OREAS 148 (Peroxide Fusion) Cert									
OREAS 148 (Peroxide Fusion) Meas									
OREAS 148 (Peroxide Fusion)									
Analyte Symbol	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
Cert									
B419382 Orig	< 0.01	6.8	< 0.1	0.5	< 5	1.5	4.7	< 0.1	30
B419382 Dup	< 0.01	6.5	< 0.1	0.6	< 5	0.9	3.9	0.5	30
B419390 Orig	0.79	10.2	0.2	16.3	59	5.4	29.8	1.0	170
B419390 Dup	0.80	10.6	0.3	16.3	57	5.7	26.9	2.0	120
B419408 Orig	< 0.01	11.0	0.1	1.3	< 5	1.3	10.2	0.4	< 30

B419408 Dup	< 0.01	10.3	< 0.1	1.4	< 5	< 0.7	11.3	0.2	< 30
B419416 Orig	< 0.01	7.3	< 0.1	1.4	< 5	1.1	11.6	0.2	40
B419416 Dup	< 0.01	7.5	< 0.1	1.6	< 5	< 0.7	13.3	0.4	30
B419426 Orig	< 0.01	7.1	< 0.1	3.6	< 5	3.7	11.3	0.7	60
B419426 Dup	< 0.01	6.6	0.1	3.4	< 5	1.8	11.7	0.6	50
B419429 Orig	0.02	2.7	< 0.1	1.9	< 5	< 0.7	4.9	0.6	30
B419429 Split PREP DUP	0.02	2.8	< 0.1	2.1	< 5	< 0.7	5.3	0.2	30
B419437 Orig	< 0.01	7.7	1.3	1.4	< 5	3.1	173	8.6	80
B419437 Dup	< 0.01	7.6	1.1	1.4	< 5	1.3	166	7.8	60
B419453 Orig	0.03	< 0.1	0.1	0.2	27	< 0.7	9.2	1.4	90
B419453 Dup	0.03	< 0.1	< 0.1	0.3	28	< 0.7	9.2	1.4	70
B419456 Orig	0.01	4.3	< 0.1	0.7	7	1.3	6.3	0.6	30
B419456 Dup	0.01	4.6	< 0.1	0.6	< 5	< 0.7	5.2	0.2	< 30
B419470 Orig	0.03	< 0.1	< 0.1	0.3	< 5	1.0	0.8	< 0.1	< 30
B419470 Dup	0.04	< 0.1	< 0.1	0.2	6	< 0.7	1.1	< 0.1	< 30
B419477 Orig	0.02	4.6	0.2	1.7	< 5	1.2	24.4	2.2	30
B419477 Dup	0.02	4.4	0.4	1.6	< 5	< 0.7	33.0	1.7	< 30
B419479 Orig	0.02	1.0	3.3	5.6	< 5	< 0.7	402	23.5	80
B419479 Split PREP DUP	0.02	1.0	3.1	5.5	< 5	< 0.7	408	27.1	90
B419484 Orig	0.01	5.8	< 0.1	1.1	< 5	< 0.7	6.0	0.5	< 30
B419484 Dup	0.01	5.3	< 0.1	1.1	< 5	0.9	3.9	0.3	30
B419485 Orig	0.05	4.9	< 0.1	0.5	< 5	< 0.7	7.3	0.6	80
B419485 Dup	0.05	4.7	< 0.1	0.6	< 5	1.3	7.4	0.4	90
B419486 Orig	0.02	0.2	< 0.1	1.5	< 5	< 0.7	4.4	0.3	< 30
B419486 Split PREP DUP	0.02	0.2	< 0.1	1.8	6	1.9	4.8	0.6	30
Method Blank	< 0.01								

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Method Blank	< 0.01	< 0.1	< 0.1	< 0.1	< 5	1.2	< 0.1	0.2	< 30
Method Blank	< 0.01	< 0.1	< 0.1	< 0.1	< 5	0.9	< 0.1	0.2	30
Method Blank	< 0.01	< 0.1	< 0.1	0.2	< 5	< 0.7	< 0.1	0.1	< 30
Method Blank	< 0.01	< 0.1	< 0.1	< 0.1	< 5	< 0.7	< 0.1	< 0.1	30
Method Blank	< 0.01	< 0.1	< 0.1	0.1	< 5	< 0.7	< 0.1	< 0.1	< 30
Method Blank	< 0.01								



Report No.: A21-21772
 Report Date: 09-Dec-21
 Date Submitted: 22-Nov-21
 Your Reference: Campus Creek Pegmatites

Grid Metals Corp.
 304-3335 Yonge St
 Toronto Ontario M4N 2M1
 Canada

ATTN: Carey Galeschuk

CERTIFICATE OF ANALYSIS

38 Rock samples were submitted for analysis.

The following analytical package(s) were requested:		Testing Date:
UT-7-Grid	QOP Sodium Peroxide (Sodium Peroxide Fusion ICPOES + ICPMS)	2021-11-30 08:57:15

REPORT A21-21772

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Notes:



CERTIFIED BY:

Emmanuel Esemé, 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
 LabID: 266 E-MAIL Ancaster@actlabs.com ACTLABS GROUP WEBSITE www.actlabs.com

Analyte Symbol	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3 (T)	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419336	15.32	< 5	< 10	31	6	18	0.30	< 2	66.4	0.3	60	71.0	33	3.8	0.5	< 0.1	0.58	72.6	14.5	5.8	0.3	20	< 0.2
B419337	17.91	< 5	< 10	8	< 3	< 2	0.14	< 2	3.5	0.8	50	20.2	13	< 0.3	< 0.1	< 0.1	0.18	51.4	0.5	3.2	< 0.2	< 10	0.2
B419338	15.71	< 5	< 10	8	< 3	23	0.21	< 2	6.1	< 0.2	60	25.3	21	3.7	1.1	< 0.1	0.24	40.7	1.5	3.6	0.6	< 10	< 0.2
B419339	15.42	< 5	< 10	12	< 3	< 2	0.21	< 2	69.2	1.3	50	9.6	12	1.9	0.3	< 0.1	0.33	51.2	6.2	3.6	< 0.2	< 10	< 0.2
B419340	16.61	8	10	21	119	4	0.26	< 2	0.9	3.4	80	57.1	41	< 0.3	< 0.1	< 0.1	1.18	13.7	0.2	6.1	< 0.2	< 10	< 0.2
B419341	11.66	< 5	< 10	15	< 3	< 2	0.28	< 2	10.4	0.5	60	8.5	21	1.5	0.2	< 0.1	0.64	50.6	1.3	2.0	< 0.2	< 10	< 0.2
B419342	11.76	< 5	< 10	6	< 3	< 2	0.10	< 2	1.6	< 0.2	60	43.1	16	< 0.3	< 0.1	< 0.1	0.33	45.8	0.2	3.9	< 0.2	< 10	< 0.2
B419343	13.37	< 5	< 10	7	4	17	0.13	< 2	10.4	< 0.2	50	20.3	21	2.0	0.9	< 0.1	1.11	86.0	3.0	3.5	0.3	< 10	0.4
B419344	7.91	< 5	< 10	5	< 3	11	0.12	< 2	26.7	0.9	70	14.0	13	2.4	0.7	< 0.1	0.79	35.3	4.0	3.3	0.3	< 10	0.3
B419345	14.47	< 5	< 10	8	< 3	10	0.10	< 2	7.7	1.3	60	27.2	14	0.7	0.1	< 0.1	0.26	33.9	0.9	3.4	< 0.2	< 10	< 0.2
B419346	14.99	< 5	< 10	13	3	< 2	0.36	< 2	10.6	0.6	70	16.6	22	10.8	3.6	< 0.1	0.65	34.9	8.6	3.1	1.6	< 10	< 0.2
B419347	13.83	< 5	< 10	5	< 3	< 2	0.16	< 2	21.2	0.6	60	34.2	15	8.5	3.7	< 0.1	0.55	44.3	4.9	3.6	1.1	20	< 0.2
B419348	17.70	< 5	< 10	39	< 3	< 2	0.05	< 2	1.3	< 0.2	50	46.6	18	< 0.3	< 0.1	< 0.1	0.04	46.8	0.1	4.2	< 0.2	< 10	< 0.2
B419349	17.47	< 5	< 10	8	4	< 2	0.08	< 2	15.3	< 0.2	70	23.9	14	< 0.3	< 0.1	< 0.1	1.68	163	1.6	2.9	< 0.2	< 10	1.3
B419350	0.22	< 5	< 10	8	< 3	< 2	0.08	< 2	2.2	2.2	60	0.4	21	< 0.3	0.2	< 0.1	0.40	1.0	0.5	1.1	< 0.2	< 10	< 0.2
B419351	13.03	< 5	< 10	17	< 3	29	0.15	< 2	2.2	< 0.2	50	27.4	15	< 0.3	0.2	< 0.1	0.61	38.0	0.7	4.3	< 0.2	10	< 0.2
B419352	14.86	< 5	< 10	6	4	2	0.15	< 2	12.3	< 0.2	50	45.2	9	1.8	0.8	< 0.1	0.95	66.6	1.9	4.0	0.3	< 10	0.4
B419353	13.81	< 5	< 10	29	< 3	191	0.54	< 2	132	0.9	60	4.7	18	78.5	32.9	< 0.1	3.46	41.8	36.4	6.7	12.8	10	< 0.2
B419354	7.82	< 5	< 10	4	< 3	< 2	0.19	< 2	11.6	0.3	60	5.9	17	1.2	0.5	< 0.1	0.73	37.2	2.2	2.5	< 0.2	20	0.2
B419355	16.45	< 5	< 10	14	3	< 2	0.31	< 2	22.2	< 0.2	60	12.5	20	3.8	1.3	< 0.1	0.72	40.7	3.8	3.9	0.6	10	< 0.2
B419356	14.82	< 5	< 10	9	< 3	< 2	0.28	< 2	62.7	< 0.2	70	12.5	31	7.1	2.7	< 0.1	1.01	39.7	9.2	4.0	1.0	20	0.2
B419357	13.38	< 5	< 10	12	4	7	0.31	< 2	24.4	1.2	90	8.6	16	3.7	2.1	< 0.1	0.92	44.8	2.8	2.8	0.6	10	< 0.2

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B419358	13.49	< 5	< 10	24	< 3	< 2	0.21	< 2	6.8	0.4	60	11.7	11	1.6	0.6	< 0.1	0.52	41.9	0.8	3.0	< 0.2	10	< 0.2
B419359	15.58	< 5	< 10	22	< 3	< 2	0.24	< 2	8.4	0.5	50	20.2	13	2.7	0.7	< 0.1	0.53	43.8	2.3	3.8	0.4	10	< 0.2
B419360	9.10	44	10	1960	29	13	1.61	< 2	1170	7.4	120	230	311	9.9	2.8	9.9	4.62	19.6	20.6	6.7	1.3	< 10	3.0
B419361	13.90	< 5	< 10	23	< 3	< 2	0.08	< 2	11.5	< 0.2	50	20.2	9	1.7	0.9	< 0.1	0.53	47.0	1.8	3.2	0.3	< 10	0.3
B419362	14.08	< 5	< 10	< 3	4	< 2	0.31	< 2	21.1	0.3	70	9.0	19	2.5	1.0	< 0.1	1.13	52.1	2.3	3.1	0.3	< 10	< 0.2
B419363	12.62	< 5	< 10	5	< 3	< 2	0.14	< 2	9.5	0.3	50	21.7	10	1.5	0.9	< 0.1	0.57	39.9	2.0	3.4	< 0.2	20	0.2
B419364	14.23	< 5	< 10	5	< 3	< 2	0.10	< 2	5.2	0.3	60	66.1	7	1.0	0.3	< 0.1	0.93	45.1	0.7	3.6	< 0.2	< 10	0.3
B419365	13.10	< 5	< 10	< 3	< 3	< 2	0.12	< 2	36.4	< 0.2	60	9.6	11	4.8	2.0	< 0.1	1.10	60.0	4.8	3.5	0.5	< 10	0.3
B419366	12.44	< 5	< 10	288	6	< 2	1.35	< 2	17.3	0.2	50	5.6	11	0.9	0.4	0.3	0.71	35.6	1.6	1.6	< 0.2	< 10	< 0.2
B419367	12.73	< 5	20	6	< 3	< 2	0.19	< 2	7.1	0.2	60	40.5	8	2.3	0.5	< 0.1	0.79	47.0	1.2	2.1	0.2	< 10	0.2
B419368	11.97	< 5	< 10	5	< 3	< 2	0.21	< 2	10.0	< 0.2	60	8.2	6	1.1	0.2	< 0.1	0.52	31.6	0.5	2.6	< 0.2	< 10	< 0.2
B419369	18.18	< 5	< 10	5	< 3	< 2	0.08	< 2	1.8	0.7	50	21.5	48	< 0.3	< 0.1	< 0.1	0.17	33.5	0.2	3.2	< 0.2	< 10	< 0.2
B419370	16.04	6	10	20	117	2	0.17	4	0.9	0.9	70	64.6	33	< 0.3	< 0.1	< 0.1	1.15	16.7	< 0.1	6.3	< 0.2	< 10	< 0.2
B419371	14.69	< 5	< 10	< 3	< 3	3	0.34	< 2	27.2	0.4	40	10.5	17	4.3	1.8	< 0.1	1.08	59.3	5.2	3.1	0.6	< 10	0.3
B419372	10.17	< 5	< 10	4	< 3	< 2	0.14	< 2	6.5	0.6	60	5.9	21	4.3	1.2	< 0.1	0.89	27.0	4.0	3.1	0.5	< 10	< 0.2
B419373	14.84	< 5	< 10	76	3	7	0.39	< 2	20.2	2.8	130	7.1	31	2.2	0.6	0.3	1.18	75.6	3.8	2.5	0.4	10	0.4

Analyte Symbol	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419336	2.44	18.1	105	0.05	262	3	95.5	42.8	20	21.9	10.1	994	78.39	< 2	< 8	> 30.0	17.9	25.9	26	66.3	1.1	< 6	12.4
B419337	10.54	1.9	40	0.02	97	1	15.3	1.9	20	52.8	0.7	2280	69.19	< 2	24	> 30.0	0.2	6.6	16	1.7	< 0.1	< 6	0.6
B419338	8.93	2.7	47	0.01	415	3	35.6	2.0	20	57.4	0.4	1950	74.17	< 2	18	> 30.0	1.4	3.3	16	8.0	0.4	< 6	1.9
B419339	4.67	23.4	51	0.02	67	3	24.1	43.1	10	29.5	10.0	1030	73.80	< 2	18	> 30.0	9.5	6.0	17	4.5	0.4	< 6	20.3
B419340	2.59	0.4	9480	0.03	755	4	39.5	< 0.4	40	24.2	0.1	589	76.46	< 2	< 8	> 30.0	< 0.1	140	42	20.5	< 0.1	< 6	0.3
B419341	3.06	4.0	65	0.08	246	4	65.9	5.9	20	26.1	1.6	716	83.88	< 2	< 8	> 30.0	1.9	10.9	19	10.9	0.2	< 6	3.5

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B41934 2	7.14	0.8	68	0.01	59	2	43.3	0.6	20	30.9	0.2	1920	72.56	< 2	< 8	> 30.0	< 0.1	8.5	16	18.5	< 0.1	6	0.6
B41934 3	3.76	4.0	377	0.08	228	4	94.4	5.4	20	17.5	1.6	1350	78.46	< 2	< 8	> 30.0	1.7	33.1	18	11.3	0.3	12	3.0
B41934 4	3.74	8.1	199	0.04	142	3	232.8	16.7	30	24.0	3.3	1020	86.16	< 2	< 8	> 30.0	5.7	17.8	18	43.2	0.5	< 6	7.2
B41934 5	8.83	4.6	64	0.01	80	< 1	23.7	1.9	40	41.4	0.4	2120	71.14	< 2	< 8	> 30.0	0.8	6.6	16	4.7	0.1	< 6	0.8
B41934 6	6.88	2.9	14	< 0.01	2470	3	33.8	11.8	40	20.9	2.0	1280	71.91	< 2	< 8	> 30.0	6.9	0.9	13	12.8	1.4	< 6	10.6
B41934 7	6.57	7.3	91	0.02	1370	< 1	50.7	13.9	30	43.8	3.4	1570	78.65	< 2	< 8	> 30.0	3.5	6.9	17	11.0	1.0	< 6	3.9
B41934 8	11.35	1.0	24	< 0.01	16	3	5.9	0.5	10	76.0	0.1	2890	68.82	< 2	< 8	> 30.0	< 0.1	5.7	19	1.6	< 0.1	< 6	0.1
B41934 9	5.71	5.2	569	0.18	253	< 1	176.9	8.2	20	23.3	1.9	2000	73.16	< 2	< 8	> 30.0	1.7	58.9	12	16.3	< 0.1	< 6	4.2
B41935 0	< 0.01	1.2	32	< 0.01	69	4	4.0	0.8	40	12.9	0.1	2.3	90.94	< 2	< 8	> 30.0	< 0.1	2.3	16	0.9	< 0.1	< 6	0.7
B41935 1	7.41	1.0	14	< 0.01	125	2	30.1	0.5	20	50.3	0.2	1810	74.39	< 2	< 8	> 30.0	0.2	1.4	20	12.6	< 0.1	< 6	0.4
B41935 2	4.81	4.3	227	0.04	659	2	74.1	7.1	20	24.5	1.4	1220	77.02	< 2	< 8	> 30.0	2.3	14.7	15	13.2	0.3	< 6	2.4
B41935 3	0.55	43.7	72	0.04	> 10000	3	192.6	70.8	10	24.4	18.7	127	74.18	< 2	31	> 30.0	24.1	3.4	19	24.4	8.9	< 6	43.9
B41935 4	1.22	3.8	113	0.04	263	3	47.5	7.2	20	10.9	1.4	379	89.31	< 2	18	> 30.0	1.9	8.7	11	7.6	0.2	10	3.2
B41935 5	5.61	6.5	21	0.01	944	1	39.2	9.9	40	37.7	2.5	1130	71.49	< 2	< 8	> 30.0	2.9	3.4	16	7.6	0.4	< 6	6.8
B41935 6	5.16	23.2	36	0.02	1400	< 1	110.1	39.2	40	34.7	9.5	1170	75.49	< 2	25	> 30.0	9.2	7.1	27	21.7	0.9	14	12.8
B41935 7	2.56	7.5	83	0.06	460	8	61.6	12.4	10	20.2	3.6	653	80.80	< 2	24	> 30.0	2.9	10.4	20	11.6	0.7	< 6	10.5
B41935 8	4.62	2.9	39	0.04	183	2	45.4	2.8	20	29.7	0.9	1030	75.22	< 2	24	> 30.0	0.5	7.5	20	8.9	0.2	< 6	1.7
B41935 9	5.38	3.3	31	0.02	193	< 1	96.2	4.2	20	38.2	1.6	1270	73.23	< 2	< 8	> 30.0	2.1	4.6	19	48.9	0.5	< 6	4.2
B41936 0	1.92	695	1850	0.93	417	8	1104.4	372	40	34.6	125	1200	74.62	11	52	> 30.0	47.3	749	287	17.1	2.9	< 6	93.4
B41936 1	7.61	5.8	126	0.03	179	2	39.0	7.7	20	43.0	1.3	1890	72.85	< 2	< 8	> 30.0	2.0	9.3	10	6.3	0.3	6	3.2
B41936 2	2.40	8.6	177	0.04	408	3	65.3	9.6	30	23.9	2.5	720	82.40	< 2	< 8	> 30.0	3.2	17.8	12	11.5	0.4	6	4.6
B41936 3	6.08	4.3	146	0.03	140	3	40.5	4.9	20	36.5	1.2	1360	77.38	< 2	18	> 30.0	1.4	17.5	14	6.0	0.2	< 6	3.1
B41936 4	7.64	2.4	194	0.03	192	2	41.5	3.3	10	41.7	0.9	1950	73.43	< 2	< 8	> 30.0	0.7	24.5	15	5.6	< 0.1	< 6	1.9
B41936 5	2.62	10.9	184	0.05	1170	2	117.3	23.2	40	16.5	5.0	838	78.68	< 2	19	> 30.0	5.9	27.9	13	17.3	0.7	6	10.3
B41936 6	2.34	8.0	8	0.09	198	1	34.8	7.1	< 10	18.6	2.2	285	77.51	< 2	< 8	> 30.0	0.6	3.6	71	8.6	0.1	< 6	4.2
B41936 7	4.33	2.8	105	0.02	371	3	67.2	3.7	10	18.9	0.7	903	77.30	< 2	< 8	> 30.0	1.2	7.3	16	12.0	0.4	< 6	1.9
B41936 8	5.53	3.7	12	< 0.01	228	2	181.8	5.3	20	27.9	1.1	974	77.61	< 2	< 8	> 30.0	1.4	2.8	13	23.0	0.2	< 6	2.6
B41936 9	12.33	1.9	13	< 0.01	43	< 1	5.1	0.5	20	75.7	0.1	2080	66.11	< 2	< 8	> 30.0	< 0.1	1.1	15	0.5	< 0.1	8	0.4

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B419370	2.44	< 0.4	9540	0.02	711	4	34.1	< 0.4	50	11.2	< 0.1	619	72.49	< 2	< 8	> 30.0	< 0.1	130	37	19.9	< 0.1	< 6	0.4
B419371	2.12	9.6	205	0.05	627	4	103.5	15.0	< 10	17.0	2.9	576	75.71	< 2	12	> 30.0	5.4	12.8	12	14.7	0.7	6	11.7
B419372	3.34	2.1	44	0.02	988	4	21.8	3.2	20	24.5	0.8	616	82.82	< 2	< 8	> 30.0	1.7	2.5	12	3.5	0.7	< 6	1.7
B419373	3.09	6.6	205	0.17	615	86	93.9	11.6	40	32.6	2.7	758	76.99	< 2	< 8	> 30.0	3.1	15.9	50	13.5	0.5	12	4.4

Analyte Symbol	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
B419336	0.02	4.9	< 0.1	6.2	< 5	< 0.7	24.2	0.5	150
B419337	< 0.01	12.9	< 0.1	0.3	< 5	< 0.7	2.5	0.2	650
B419338	< 0.01	11.5	0.3	2.0	5	< 0.7	29.4	1.6	< 30
B419339	< 0.01	6.0	< 0.1	1.2	< 5	0.9	7.8	0.5	< 30
B419340	< 0.01	3.8	< 0.1	6.6	5	7.0	0.5	0.2	100
B419341	0.02	3.8	< 0.1	1.7	6	1.4	8.5	0.9	60
B419342	< 0.01	10.4	< 0.1	0.5	< 5	< 0.7	2.0	< 0.1	50
B419343	0.03	5.8	< 0.1	1.0	8	< 0.7	8.9	0.3	100
B419344	0.02	5.8	< 0.1	1.4	< 5	1.9	16.4	1.1	80
B419345	< 0.01	12.6	< 0.1	0.5	5	< 0.7	4.0	0.1	< 30
B419346	< 0.01	7.4	0.8	6.8	< 5	< 0.7	78.4	7.0	< 30
B419347	< 0.01	9.2	0.7	3.2	< 5	< 0.7	60.0	6.2	50
B419348	< 0.01	17.0	< 0.1	0.3	5	< 0.7	0.6	< 0.1	30
B419349	0.10	8.7	< 0.1	0.5	12	6.1	2.2	0.4	150
B419350	0.04	0.2	< 0.1	0.3	6	1.1	0.8	< 0.1	< 30
B419351	< 0.01	10.1	< 0.1	0.8	< 5	< 0.7	4.9	0.2	< 30
B419352	0.02	6.9	0.1	9.4	5	< 0.7	21.0	0.7	290
B419353	0.02	0.4	5.1	23.3	6	< 0.7	622	39.0	300
B419354	0.02	1.6	< 0.1	0.8	< 5	< 0.7	13.9	0.3	60
B419355	< 0.01	5.4	0.2	1.2	< 5	< 0.7	31.8	2.4	30
B419356	< 0.01	6.3	0.5	3.4	6	1.0	72.5	4.5	60
B419357	0.02	3.5	0.4	4.2	< 5	1.0	31.9	2.5	50
B419358	0.01	5.2	< 0.1	1.4	7	< 0.7	9.0	0.7	< 30

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B419359	< 0.01	6.4	0.1	4.7	< 5	< 0.7	21.5	1.1	30
B419360	0.81	11.2	0.4	15.4	65	6.6	28.9	1.9	160
B419361	< 0.01	10.0	< 0.1	1.2	< 5	< 0.7	14.4	0.6	40
B419362	0.02	2.9	0.1	2.7	5	< 0.7	17.4	0.5	70
B419363	0.01	7.2	0.2	1.1	< 5	< 0.7	13.4	1.0	40
B419364	0.02	10.3	< 0.1	0.7	< 5	< 0.7	5.4	0.3	50
B419365	0.03	3.6	0.2	4.3	6	< 0.7	38.3	2.9	90
B419366	0.03	1.4	< 0.1	1.2	7	2.1	5.1	0.4	30
B419367	0.01	4.2	0.1	1.6	< 5	< 0.7	11.4	0.7	80
B419368	< 0.01	4.4	< 0.1	1.8	6	< 0.7	7.6	0.5	< 30
B419369	< 0.01	11.4	< 0.1	0.4	< 5	< 0.7	0.6	< 0.1	< 30
B419370	< 0.01	3.2	< 0.1	6.7	< 5	5.2	0.7	0.1	90
B419371	0.02	2.3	0.2	4.4	< 5	0.9	27.9	1.6	80
B419372	< 0.01	3.3	0.2	1.7	< 5	< 0.7	20.1	0.9	< 30
B419373	0.08	2.8	0.1	1.6	25	2.3	13.6	0.8	60

Analyte Symbol	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3 (T)	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
PTM-1a Meas		2190								> 5000			> 10000										
PTM-1a Cert		2200								20500.00			249600.00										
PTM-1a Meas		2200								> 5000			> 10000										
PTM-1a Cert		2200								20500.00			249600.00										
NIST 696 Meas	52.50						0.02				320						8.31						
NIST 696 Cert	54.5						0.018				321.0						8.70						
Oreas 74a (Fusion) Meas	2.22	51								574	1810		1160										
Oreas 74a (Fusion) Cert	2.21	50								581			1240.000										
OREAS 101a (Fusion) Meas									1430	47.0			434	33.3	19.2	7.2			35.3		6.4		
OREAS 101a (Fusion) Cert									1396	48.8			434	33.3	19.5	8.06			43.4		6.46		
OREAS 101a (Fusion) Meas									1320	50.1			457	35.4	18.8	7.8			34.3		6.6		
OREAS 101a (Fusion) Cert									1396	48.8			434	33.3	19.5	8.06			43.4		6.46		
NCS DC8631 5 Meas	14.56						0.77										0.56						
NCS DC8631 5 Cert	14.5						0.71										0.68						

NCS DC8631 4 Meas	24.13					0.04					2860				0.15					
NCS DC8631 4 Cert	24.5					0.063					2830				0.30					
CZN-4 Meas		359					2710		102			4090								
CZN-4 Cert		356.00 00					2604.0 000		93.5			4030.0 00								
OREAS 922 (Peroxid e Fusion) Meas																				
OREAS 922 (Peroxid e Fusion) Cert																				
CCU-1e Meas		1090					80		320			> 10000								
CCU-1e Cert		1010					74.2		301			229000								
OREAS 680 (Peroxid e Fusion) Meas																				
OREAS 680 (Peroxid e Fusion) Cert																				
OREAS 680 (Peroxid e Fusion) Meas																				
OREAS 680 (Peroxid e Fusion) Cert																				
OREAS 139 (Peroxid e Fusion) Meas		338			< 3	6	276	44.9	28.3		3.6	288		1.8		11.4				0.6

OREAS 139 (Peroxide Fusion)		332			3.17	6.64		296	49.4	26.0		3.21	274		1.69			10.2				0.690
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Analyte Symbol	Al2O3	As	B	Ba	Be	Bi	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Fe2O3 (T)	Ga	Gd	Ge	Ho	Hf	In
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	5	10	3	3	2	0.01	2	0.8	0.2	30	0.1	2	0.3	0.1	0.1	0.01	0.2	0.1	0.7	0.2	10	0.2
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
Cert																							
OREAS 624 (Peroxide Fusion) Meas		113		1060		21		123	31.1	280		1.4	> 10000					20.6					5.1
OREAS 624 (Peroxide Fusion) Cert		115		1070		21.3		133	32.9	273		1.32	30800					22.1					4.14
AMIS 0346 (Peroxide Fusion) Meas																							
AMIS 0346 (Peroxide Fusion) Cert																							
AMIS 0346 (Peroxide Fusion) Meas																							
AMIS 0346 (Peroxide Fusion) Cert																							
OREAS 148 (Peroxide Fusion)																							

Meas																								
OREAS 148 (Peroxide Fusion) Cert																								
OREAS 148 (Peroxide Fusion) Meas																								
OREAS 148 (Peroxide Fusion) Cert																								
B41934 2 Orig	11.54	< 5	< 10	6	< 3	< 2	0.07	< 2	1.6	0.2	50	41.3	19	0.4	< 0.1	< 0.1	0.34	46.4	0.2	3.7	< 0.2	< 10	< 0.2	
B41934 2 Dup	11.98	< 5	< 10	6	< 3	< 2	0.12	< 2	1.5	< 0.2	60	44.8	13	< 0.3	< 0.1	< 0.1	0.33	45.1	0.2	4.0	< 0.2	< 10	< 0.2	
B41935 0 Orig	0.22	< 5	< 10	8	< 3	< 2	0.09	< 2	1.9	2.3	60	0.3	20	< 0.3	0.2	< 0.1	0.40	0.5	0.4	1.1	< 0.2	< 10	0.2	
B41935 0 Dup	0.21	< 5	< 10	8	< 3	< 2	0.07	< 2	2.5	2.0	60	0.5	22	< 0.3	0.2	< 0.1	0.40	1.5	0.5	1.1	< 0.2	< 10	< 0.2	
B41936 0 Orig	9.06	45	10	1950	28	13	1.63	< 2	1150	7.7	140	228	306	9.2	2.8	10.5	4.58	17.8	20.5	7.0	1.2	< 10	2.9	
B41936 0 Dup	9.15	43	10	1970	30	13	1.60	< 2	1180	7.1	110	232	316	10.7	2.9	9.3	4.67	21.4	20.7	6.4	1.3	< 10	3.1	
B41936 4 Orig	14.42	< 5	< 10	5	< 3	< 2	0.09	< 2	5.4	0.2	60	66.7	3	0.9	0.4	< 0.1	0.94	44.3	0.6	3.8	< 0.2	< 10	0.3	
B41936 4 Dup	14.05	< 5	< 10	6	< 3	< 2	0.11	< 2	5.0	0.4	60	65.5	11	1.0	0.2	< 0.1	0.92	45.8	0.7	3.5	< 0.2	< 10	0.3	
B41937 0 Orig	16.10	5	10	22	116	3	0.19	4	0.9	0.3	60	65.4	32	< 0.3	< 0.1	< 0.1	1.13	16.2	< 0.1	6.4	< 0.2	< 10	< 0.2	
B41937 0 Dup	15.98	6	10	17	118	2	0.16	3	0.9	1.4	80	63.8	34	< 0.3	< 0.1	< 0.1	1.16	17.3	0.2	6.1	< 0.2	< 10	< 0.2	
B41937 2 Orig	10.18	< 5	< 10	4	< 3	< 2	0.16	< 2	6.6	0.7	60	6.1	27	4.6	1.2	< 0.1	0.90	28.4	3.4	3.1	0.6	< 10	< 0.2	
B41937 2 Dup	10.16	< 5	< 10	5	< 3	< 2	0.12	< 2	6.4	0.4	50	5.7	16	4.0	1.1	< 0.1	0.89	25.7	4.7	3.1	0.5	< 10	< 0.2	
B41937 3 Orig	14.84	< 5	< 10	76	3	7	0.39	< 2	20.2	2.8	130	7.1	31	2.2	0.6	0.3	1.18	75.6	3.8	2.5	0.4	10	0.4	
B41937 3 Split PREP DUP	15.00	< 5	< 10	60	3	7	0.49	< 2	17.6	3.4	130	7.9	17	2.4	0.9	0.3	1.18	77.8	3.1	2.4	0.3	< 10	0.3	
Method Blank	< 0.01	< 5	< 10	< 3	< 3	< 2	< 0.01	< 2	< 0.8	1.4	60	0.4	12	< 0.3	< 0.1	< 0.1	< 0.01	< 0.2	< 0.1	< 0.7	< 0.2	< 10	< 0.2	
Method Blank		< 5	< 10	< 3	< 3	< 2		< 2	< 0.8	< 0.2	40	0.5	17	< 0.3	< 0.1	< 0.1		0.6	< 0.1	< 0.7	< 0.2	< 10	< 0.2	
Method Blank	0.01						0.06										< 0.01							
Method Blank	< 0.01						< 0.01										< 0.01							

Analyte Symbol	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
PTM-1a Meas									> 10000														
PTM-1a Cert									474400.00														
PTM-1a Meas									> 10000														
PTM-1a Cert									474400.00														
NIST 696 Meas	< 0.01			0.01									3.67										
NIST 696 Cert	0.0090			0.012									3.79										
Oreas 74a (Fusion) Meas				28.61					> 10000				32.78			15.3							
Oreas 74a (Fusion) Cert				27.9					32400.00				32.4			15.1							
OREAS 101a (Fusion) Meas		787			996	18		387			131						48.2				5.9		35.0
OREAS 101a (Fusion) Cert		816			964	21.9		403			134						48.8				5.92		36.6
OREAS 101a (Fusion) Meas		771			998	20		433			139						48.3				5.8		35.1
OREAS 101a (Fusion) Cert		816			964	21.9		403			134						48.8				5.92		36.6
NCS DC8631 5 Meas	4.07			0.08									72.38										
NCS DC8631 5 Cert	4.11			0.093									72.3										
NCS DC8631 4 Meas	7.60		> 10000	0.02								> 5000	53.30					150					

NCS DC86314 Cert	7.75	18100.00	0.027						11400	53.9				152					
CZN-4 Meas								1800				112	0.27						
CZN-4 Cert								1861.0000				86.7	0.29						
OREAS 922 (Peroxide Fusion) Meas													> 30.0						
OREAS 922 (Peroxide Fusion) Cert													30.51						
CCU-1e Meas				102				> 5000		3.17	120								71
CCU-1e Cert				96.0				7030		3.13	104								61.8
OREAS 680 (Peroxide Fusion) Meas													20.3						
OREAS 680 (Peroxide Fusion) Cert													20.6						
OREAS 680 (Peroxide Fusion) Meas													20.4						
OREAS 680 (Peroxide Fusion) Cert													20.6						
OREAS 139 (Peroxide Fusion) Meas		22.7	39		6700	12		> 5000		151	60		17.1			497		0.5	8.1
OREAS 139		23.1	40.4		6570	11.1		22000		145	63.0		16.34			479		0.500	7.54

(Peroxide Fusion) Cert																							
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Analyte Symbol	K2O	La	Li	MgO	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	SiO2	Sb	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th
Unit Symbol	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.4	3	0.01	3	1	2.4	0.4	10	0.8	0.1	0.4	0.01	2	8	0.01	0.1	0.5	3	0.2	0.1	6	0.1
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
OREAS 624 (Peroxide Fusion) Meas		15.9	13		675	17	7.0	16.8		> 5000	3.5	36.3		67		20.1			59				4.2
OREAS 624 (Peroxide Fusion) Cert		17.3	10.3		660	17.8	5.78	16.8		6120	4.27	33.0		72.0		20.5			47.6				4.12
AMIS 0346 (Peroxide Fusion) Meas																							
AMIS 0346 (Peroxide Fusion) Cert																							
AMIS 0346 (Peroxide Fusion) Meas																							
AMIS 0346 (Peroxide Fusion) Cert																							
OREAS 148 (Peroxide Fusion) Meas																> 30.0							

Analyte Symbol	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS-Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2
PTM-1a Meas									
PTM-1a Cert									
PTM-1a Meas									
PTM-1a Cert									
NIST 696 Meas	2.48					393			
NIST 696 Cert	2.64				403.00 00				
Oreas 74a (Fusion) Meas									
Oreas 74a (Fusion) Cert									
OREAS 101a (Fusion) Meas			2.6	408	80		181	17.0	
OREAS 101a (Fusion) Cert			2.90	422	83		183	17.5	
OREAS 101a (Fusion) Meas			2.7	433	81		156	19.9	
OREAS 101a (Fusion) Cert			2.90	422	83		183	17.5	
NCS DC86315 Meas	0.04								
NCS DC86315 Cert	0.039								
NCS DC86314 Meas	0.03					71.0			
NCS DC86314 Cert	0.029					79.0			
CZN-4 Meas									

CZN-4 Cert									> 10000 550700 .00
OREAS 922 (Peroxide Fusion) Meas									
OREAS 922 (Peroxide Fusion) Cert									
CCU-1e Meas		2.3							> 10000
CCU-1e Cert		2.69							30200
OREAS 680 (Peroxide Fusion) Meas									
OREAS 680 (Peroxide Fusion) Cert									
OREAS 680 (Peroxide Fusion) Meas									
OREAS 680 (Peroxide Fusion) Cert									
OREAS 139 (Peroxide Fusion) Meas		34.2		11.6			15.3		> 10000
OREAS 139 (Peroxide Fusion) Cert		35.4		12.2			17.1		133600 .00
OREAS 624		1.0		1.3	34	4.5	14.1	1.7	> 10000
Analyte Symbol	TiO2	Tl	Tm	U	V	W	Y	Yb	Zn
Unit Symbol	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.1	0.1	0.1	5	0.7	0.1	0.1	30
Method Code	FUS- Na2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2	FUSMSNa2O2

(Peroxide Fusion) Meas									
OREAS 624 (Peroxide Fusion) Cert		0.940		1.34	43.3	4.58	17.3	1.94	24100
AMIS 0346 (Peroxide Fusion) Meas					2710				
AMIS 0346 (Peroxide Fusion) Cert					2700				
AMIS 0346 (Peroxide Fusion) Meas					2810				
AMIS 0346 (Peroxide Fusion) Cert					2700				
OREAS 148 (Peroxide Fusion) Meas									
OREAS 148 (Peroxide Fusion) Cert									
OREAS 148 (Peroxide Fusion) Meas									
OREAS 148 (Peroxide Fusion) Cert									
B419342 Orig	< 0.01	10.8	< 0.1	0.5	< 5	1.7	2.0	< 0.1	70
B419342 Dup	< 0.01	10.0	< 0.1	0.5	< 5	< 0.7	1.9	0.1	30
B419350 Orig	0.04	0.2	< 0.1	0.3	5	0.9	0.5	0.3	40
B419350 Dup	0.04	0.1	< 0.1	0.3	6	1.3	1.2	< 0.1	< 30
B419360 Orig	0.80	10.9	0.4	15.1	67	4.2	27.1	2.2	170

QC

Activation Laboratories Ltd.

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B419360 Dup	0.81	11.4	0.3	15.7	64	9.1	30.7	1.6	150
B419364 Orig	0.02	10.1	< 0.1	0.6	< 5	< 0.7	5.0	0.3	50
B419364 Dup	0.02	10.4	< 0.1	0.8	< 5	< 0.7	5.7	0.4	50
B419370 Orig	< 0.01	3.4	< 0.1	6.6	< 5	5.1	0.7	0.1	90
B419370 Dup	< 0.01	2.9	< 0.1	6.7	6	5.3	0.8	0.1	100
B419372 Orig	< 0.01	3.2	0.2	1.7	< 5	< 0.7	20.6	0.5	30
B419372 Dup	< 0.01	3.4	0.2	1.8	< 5	< 0.7	19.7	1.3	< 30
B419373 Orig	0.08	2.8	0.1	1.6	25	2.3	13.6	0.8	60
B419373 Split PREP DUP	0.08	3.1	0.1	1.5	29	2.2	12.2	0.6	50
Method Blank	< 0.01	< 0.1	< 0.1	0.1	< 5	< 0.7	< 0.1	< 0.1	< 30
Method Blank		< 0.1	< 0.1	0.2	< 5	< 0.7	< 0.1	< 0.1	< 30
Method Blank	< 0.01								
Method Blank	< 0.01								

H. Receipts and Invoices