ASX Announcement

23 February 2024

EXPLORATION UPDATE FOR DALMAS AND HIVER PROJECTS

Lightning Minerals (L1M or the Company) has received initial results from its reconnaissance works at the Dalmas and Hiver Lithium projects in Quebec, Canada. The Dalmas and Hiver projects lie within the James Bay region and the La Grande geological sub province, approximately 150km to the east of Patriot Battery Metals' (ASX: PMT) Corvette lithium project and 45km to the east of Winsome Resources' (ASX: WR1) Adina lithium project. The Hiver project is comprised of sixty two (62) claims covering an area of 31 km^2 and the Dalmas project with ninety two (92) claims for a total area of 47 km^2.

HIGHLIGHTS

- **Field reconnaissance programs are now complete with all analytical work returned for 32 samples**
- **Multiple pegmatites to form the basis of future exploration**
- **Planning of the next stage of exploration underway for the resumption of field activities during the Canadian summer**

As outlined in ASX announcement 3 November 2023, 163 of the 165 multispectral targets that were identified have been visited at the company's Dalmas and Hiver projects, with 111 targets at Dalmas and 52 targets at Hiver. From these targets, 32 samples were collected for geochemical analysis. Results are presented in Appendix 2. The completion of these early-stage exploration works can now be used to guide future exploration with numerous strategies currently being investigated.

Lightning Minerals' Managing Director Alex Biggs said, "It was important to complete stage one reconnaissance works prior to the Canadian winter. Results still demonstrate the potential for lithium mineralisation and have provided further opportunities and ideas for ongoing exploration. Current results will give us a greater understanding of how we can unlock the potential of Dalmas and Hiver which are located in one of the world's premier lithium provinces. This program was designed to be a quick first pass reconnaissance of Dalmas and Hiver to identify extent of surface mineralisation and allow us to develop strategies for sub cropping structures should they exist. Consider this work as an incremental step in gaining an understanding of what will be the most appropriate path forwards to identifying the potential at Dalmas and Hiver and we believe that the underlying geology represents significant opportunity".

RECONNAISSANCE FIELDWORK RESULTS

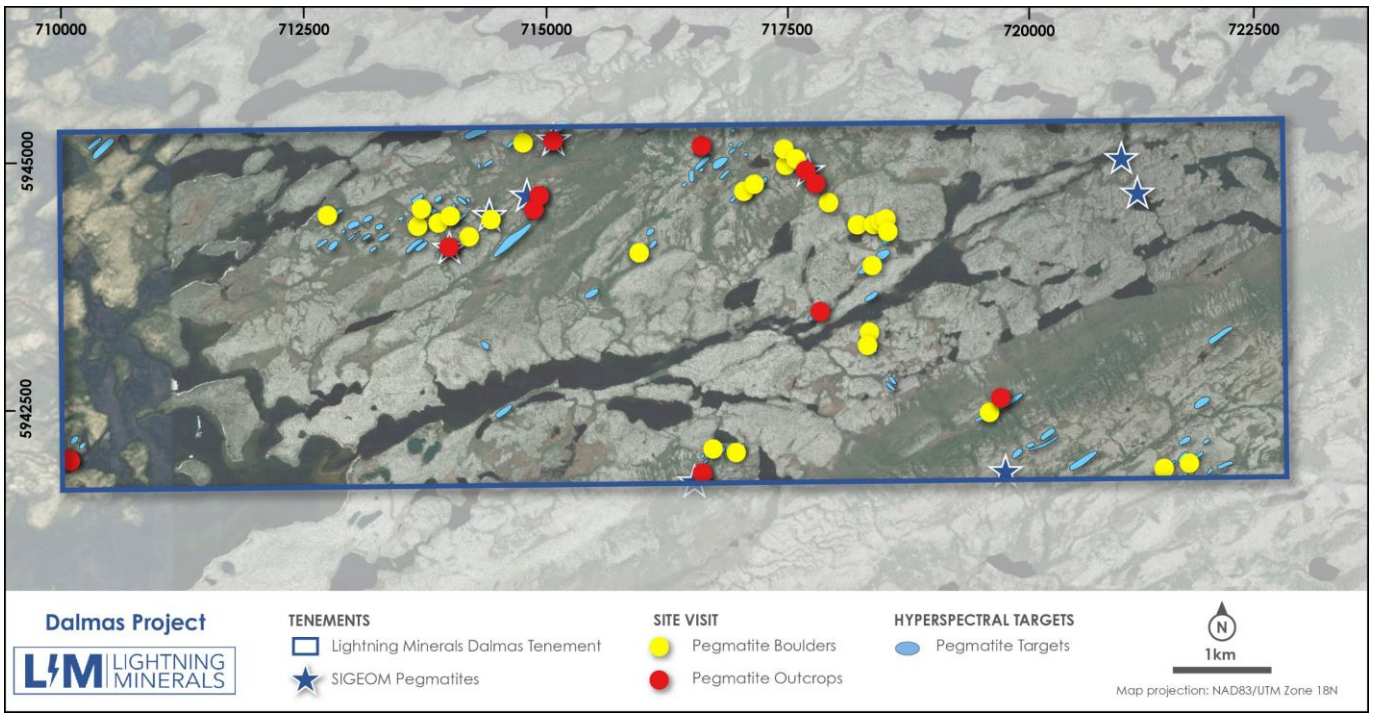
Geological service provider IOS Services Géoscientifiques of Quebec, Canada were commissioned to undertake the reconnaissance fieldwork program during October 2023. The program was designed to inspect target locations identified in the previous multispectral interpretations (ASX Announcement 08 August 2023) are shown in Figures 1 and 2. The reconnaissance program was designed to be a first pass with a view to determining future works and whether mineralisation exists clearly at surface or if exploration requires more advanced targeting techniques to uncover sub cropping potential.

Note 1: **The presence of pegmatitic lithologies does not necessarily indicate the presence of lithium, tantalum or caesium mineralisation. Only laboratory chemical assays can determine the presence and grade of any mineralisation.**

Field geologists focused on the prospectivity for hard rock pegmatite hosted lithium-caesium-tantalum deposits, and as such sampled outcropping pegmatites and mobile boulders for a total of 32 samples.

At Hiver, one outcrop of pegmatite was documented and sampled, in addition 11 boulders of pegmatite/paragneiss were recorded across the multispectral target areas. The pegmatites are generally described as quartz, plagioclase, and biotite dominant with occasional feldspar and magnetite crystals present. Dalmas sites of interest included 11 outcropping pegmatites as well 6 sites reported as pegmatitic granite/granodiorite. The Dalmas pegmatites are comprised of quartz, plagioclase, and biotite, with occasional K-feldspars, amphiboles, and pyrite. A full list of geological descriptions for both insitu pegmatites and mobile boulders is available within Appendix 2 – Table 4.

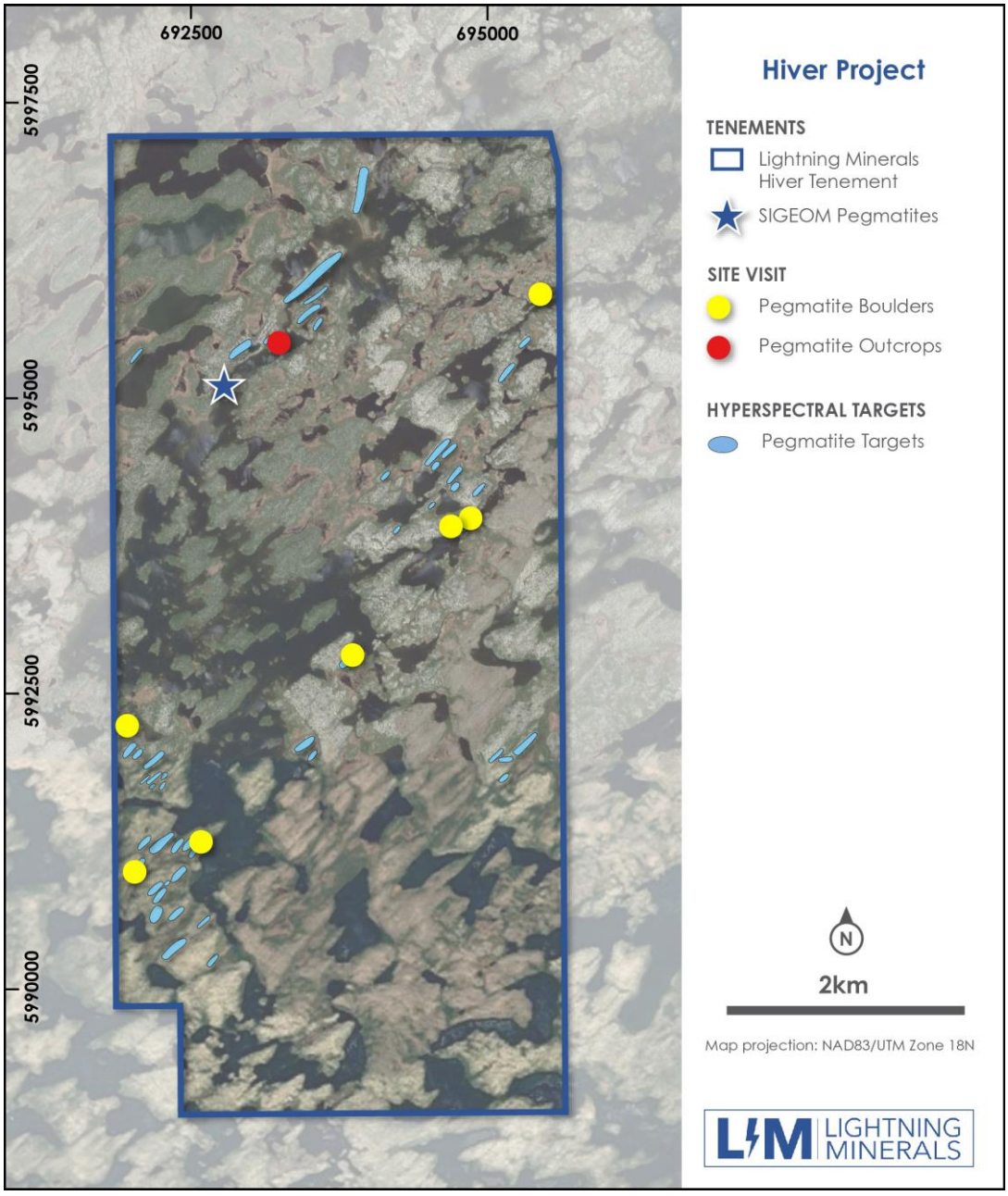
Figure 1: Pegmatite outcrop and boulders mapped within the Dalmas Project (NAD 83/UTM Z18N)



The samples were submitted to 'Actlabs' in Ancaster Ontario for analysis. All samples were analysed by Sodium Peroxide Fusion with the Actlabs Ultratrace 7 package as well as assayed for gold. Handheld XRF measurements of potassium and rubidium were collected on large feldspar crystals within pegmatite samples to provide qualitative elemental compositions for fractionation analysis.

Peak results from the Actlabs whole rock laboratory analysis include 33ppm lithium, 7.3ppm caesium and 3.6ppm tantalum. Full results are presented in Appendix 2.

Figure 2: Pegmatite outcrop and boulders mapped within the Hiver Project (NAD 83/UTM Z18N)

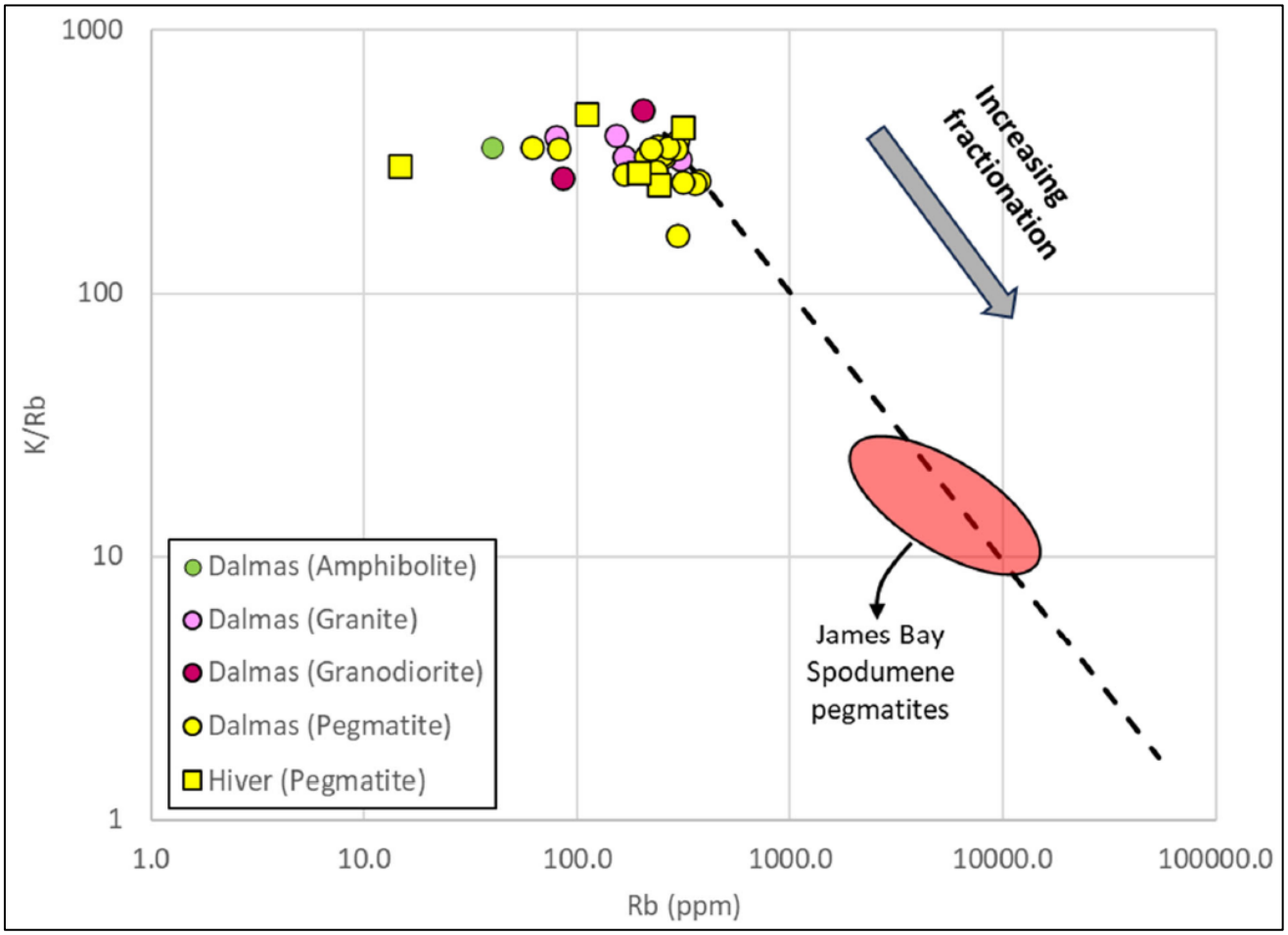


Handheld XRF analysis of feldspars within field samples reported potassium/rubidium (K/Rb) ratio values peaking at 166.7 for Dalmas sample 159990065. As a general guide K/Rb ratios are considered indicative of fractionated pegmatites as ratios move below 50, dependant on the overall whole rock chemistry. Sample 159990065 from the Dalmas project is further along the desired fractionation trend but remains distinctly separate from analogue analysis from mineralised pegmatite samples within the region as shown by Figure 3 below.

Handheld XRF results are presented in Appendix 2.

***Note 2*: Handheld XRF measurements inherently have numerous issues and limitations, results must be handled with caution. Determinations by handheld XRF are considered semi-quantitative at best, as such XRF data has only been used to calculate Potassium and Rubidium ratios within feldspar crystals for geological fractionation analysis. Certified laboratory analysis of whole rock geochemistry for each sample is also available in Appendix 2 – Tables 5 and 6**

Figure 3: Handheld XRF results for feldspar minerals within field samples.



While the reconnaissance program has not identified mineralised pegmatites in the first pass of field visitation, the geology within the projects remains prospective.

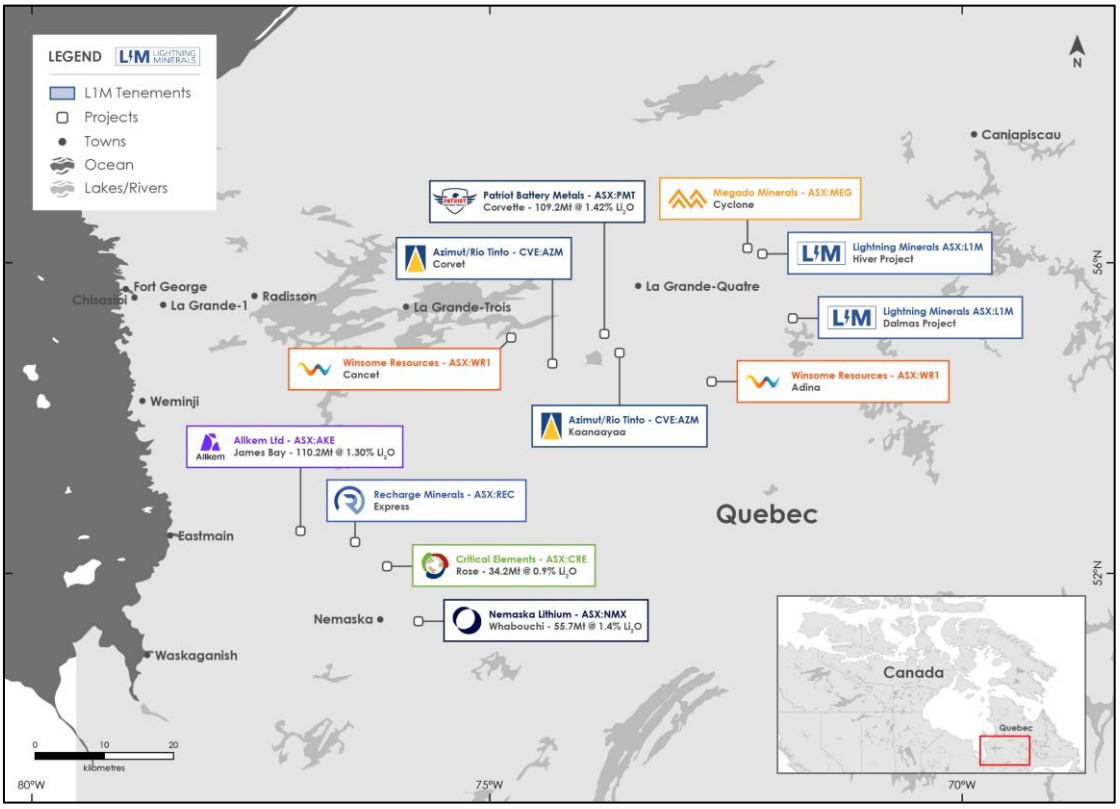
The next stages of the exploration strategy are currently being assessed, including potential collection of high-resolution Light Detection and Ranging topographic data collection (LIDAR) to aid in the identification of further outcropping pegmatites. Various tillite sampling programs across both project areas are also being considered to investigate dispersion of tantalum as an exploration tool. The collection of high resolution aeromagnetic geophysical data to uncover geological structures is also being considered for the resumption of field activities during the Canadian summer.

ABOUT THE PROJECTS AND QUEBEC AS A SIGNIFICANT LITHIUM REGION

Quebec is quickly becoming one of the world's leading lithium regions, particularly the James Bay district which hosts multiple large scale lithium projects including:

- Patriot Battery Metals' (ASX: PMT) Corvette lithium project[1] consisting of 109.2Mt @ 1.42% Li20 Inferred
- Nemaska Lithium's (TSX: NMX) Whabouchi lithium project[2] with 55.7Mt @ 1.4% Li_20 consisting of 38.5Mt @ 1.45% Li_20 Measured and Indicated and 17.2Mt @ 1.29% Li_20 Inferred
- Critical Elements' (TSX.V: CRE) Rose lithium project[3] with 34.2Mt @ 0.9% Li_20 consisting of 31.5Mt @ 0.91% Li_20 Indicated and 2.7Mt @ 0.77% Li_20 Inferred
- Sayona Mining's (ASX: SYA) Moblan lithium project[4] with 51.4Mt @ 1.30% Li_20 Measured, Indicated and Inferred
- Allkem's (ASX: AKE) James Bay lithium project[5] with 54.3Mt @ 1.30% Li_20 Indicated and 55.9Mt @ 1.29% Li_20 Inferred
- Winsome Resources' (ASX: WR1)[6] Adina project with 58.5mt @ 1.12% Inferred

Figure 4: Dalmas and Hiver project locations, James Bay, Quebec



REFERENCES

[1]Patriot Battery Metals (PMT) ASX Announcement 31 July 2023
[2]Nemaska Lithium's TSX Announcement 09 August 2019
[3]Critical Element's TSX.V Announcement 27 July 2022
[4]Sayona Mining's ASX Announcement 17 April 2023
[5]Allkem's ASX Announcement 11 August 2023
[6]Winsome Resources (WR1) ASX Announcement 11 December 2023

This announcement has been approved for release by the Board of Directors.
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ABOUT LIGHTNING MINERALS

Lightning Minerals is a mineral exploration company, listed on the Australian Stock Exchange (ASX:L1M) and focused on the exploration of critical minerals and lithium at its tenements across Western Australia. The Company's flagship Dundas project is located in the prolific Dundas region of Western Australia. The Company also owns the Dalmas and Hiver lithium projects in Quebec, Canada, another significant and evolving lithium region globally as well as other projects in Western Australia which include Mt Jewell, Mt Bartle and Mailman Hill which are prospective for base metals and critical minerals.

FORWARD LOOKING STATEMENTS

Information included in this release constitutes forward-looking statements. Often, but not always, forward looking statements can generally be identified by the use of forward-looking words such as "may", "will", "expect", "intend", "plan", "estimate", "anticipate", "continue", and "guidance", or other similar words and may include, without limitation, statements regarding plans, strategies and objectives of management, anticipated production or construction commencement dates and expected costs or production outputs.

Forward looking statements inherently involve known and unknown risks, uncertainties and other factors that may cause the Company's actual results, performance and achievements to differ materially from any future results, performance or achievements. Relevant factors may include, but are not limited to, changes in commodity prices, foreign exchange fluctuations and general economic conditions, increased costs and demand for production inputs, the speculative nature of exploration and project development, including the risks of obtaining necessary licences and permits and diminishing quantities or grades of reserves, political and social risks, changes to the regulatory framework within which the Company operates or may in the future operate, environmental conditions including extreme weather conditions, recruitment and retention of personnel, industrial relations issues and litigation.

Forward looking statements are based on the Company and its management's good faith assumptions relating to the financial, market, regulatory and other relevant environments that will exist and affect the Company's business and operations in the future. The Company does not give any assurance that the assumptions on which forward looking statements are based will prove to be correct, or that the Company's business or operations will not be affected in any material manner by these or other factors not foreseen or foreseeable by the Company or management or beyond the Company's control.

Although the Company attempts and has attempted to identify factors that would cause actual actions, events or results to differ materially from those disclosed in forward looking statements, there may be other factors that could cause actual results, performance, achievements or events not to be as anticipated, estimated or intended, and many events are beyond the reasonable control of the Company. Accordingly, readers are cautioned not to place undue reliance on forward looking statements. Forward looking statements in these materials speak only at the date of issue. Subject to any continuing obligations under applicable law or any relevant stock exchange listing rules, in providing this information the Company does not undertake any obligation to publicly update or revise any of the forward-looking statements or to advise of any change in events, conditions or circumstances on which any such statement is based.

COMPETENT PERSONS STATEMENT

The information contained herein that relates to exploration results is based on information compiled or reviewed by Mr Jarrad Woodland, who is a Competent Person and a member of the Australasian Institute of Mining and Metallurgy. Mr Woodland is a full-time employee of the company. Mr Woodland has sufficient experience which is relevant to the style of mineralisation and types of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Persons as defined in the 2012 Edition of the 'Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves'. Mr Woodland consents to the inclusion of his name in the matters based on the information in the form and context in which it appears. Mr Woodland holds options in Lightning Minerals.

Lightning Minerals engaged IOS Geosciences (IOS) to execute the prospecting and exploration work described in this news release. IOS has an experienced team of explorers based in Saguenay and is managing several projects in the James Bay region. This report contains information related to exploration results and is based on preliminary information and data compiled or reviewed by IOS under the supervision of Mr. Hugues Longuepee, who is classified as a Professional Geoscientist (P. Geo) with the respective professional regulatory body, the Order of Geologists of Quebec. Mr. Longuepee has also reviewed this new release.

REFERENCES TO PREVIOUS ANNOUNCEMENTS

The Company confirms that it is not aware of any new information or data that materially affects the information included in the original market announcements, and that all material assumptions and technical parameters have not materially changed. The Company also confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from the original market announcement.

APPENDIX 1: JORC CODE 2012 TABLE 1 CRITERIA

The Table below summarises the assessment and reporting criteria used for exploration results for the Dalmas and Hiver Exploration Projects and reflects the guidelines in Table 1 of The Australasian Code for the Reporting of Exploration Results, Mineral Resources and Ore Reserves (The JORC 2012 Code).

SECTION 1 - SAMPLING TECHNIQUES AND DATA

Criteria	JORC Code explanation	Commentary
Sampling techniques	*Nature and quality of sampling (eg cut channels, random chips, or specific specialised industry standard measurement tools appropriate to the minerals under investigation, such as down hole gamma sondes, or handheld XRF instruments, etc). These examples should not be taken as limiting the broad meaning of sampling.* *Include reference to measures taken to ensure sample representivity and the appropriate calibration of any measurement tools or systems used.* *Aspects of the determination of mineralisation that are Material to the Public Report.* *In cases where 'industry standard' work has been done this would be relatively simple (eg 'reverse circulation drilling was used to obtain 1 m samples from which 3 kg was pulverised to produce a 30 g charge for fire assay'). In other cases more explanation may be required, such as where there is coarse gold that has inherent sampling problems. Unusual commodities or mineralisation types (eg submarine nodules) may warrant disclosure of detailed information.*	• Rock chip sampling is associated with the reconnaissance mapping and sampling program which aimed to confirm historical pegmatite reports, by both locating both previous and sampling pegmatite outcrops or boulders. • No visual estimates of mineralisation are being reported
Drilling techniques	*Drill type (eg core, reverse circulation, open-hole hammer, rotary air blast, auger, Bangka, sonic, etc) and details (eg core diameter, triple or standard tube, depth of diamond tails, face-sampling bit or other type, whether core is oriented and if so, by what method, etc).*	• No drilling is reported.
Drill sample recovery	*Method of recording and assessing core and chip sample recoveries and results assessed.* *Measures taken to maximise sample recovery and ensure representative nature of the samples.* *Whether a relationship exists between sample recovery and grade and whether sample bias may have occurred due to preferential loss/gain of fine/coarse material.*	• No drilling is reported.
Logging	*Whether core and chip samples have been geologically and geotechnically logged to a level of detail to support appropriate Mineral Resource estimation, mining studies and metallurgical studies.* *Whether logging is qualitative or quantitative in nature. Core (or costean, channel, etc) photography.* *The total length and percentage of the relevant intersections logged.*	• No drilling completed. • Mineral percentage bins of surface samples are as follows - Primary Minerals (Major >30%), Secondary Minerals (Minor >5% and <30%), Accessory Minerals (Trace <5%). • Geological observations are qualitative in nature. The information contained within describes only dominant outcrop lithologies at discreet locations, and minerals of interest. • All data is stored in digital format for use in GIS software packages.

Sub-sampling techniques and sample preparation	*If core, whether cut or sawn and whether quarter, half or all core taken.* *If non-core, whether riffled, tube sampled, rotary split, etc and whether sampled wet or dry.* *For all sample types, the nature, quality and appropriateness of the sample preparation technique.* *Quality control procedures adopted for all sub-sampling stages to maximise representivity of samples.* *Measures taken to ensure that the sampling is representative of the in situ material collected, including for instance results for field duplicate/second-half sampling.* *Whether sample sizes are appropriate to the grain size of the material being sampled.*	• Sampling is at the discretion of field geologists undertaking the geological reconnaissance activities. • At this early stage of exploration discretionary grab samples on selecting lithologies of interest is considered appropriate. • No sub sampling has occurred.
Quality of assay data and laboratory tests	*The nature, quality and appropriateness of the assaying and laboratory procedures used and whether the technique is considered partial or total.* *For geophysical tools, spectrometers, handheld XRF instruments, etc, the parameters used in determining the analysis including instrument make and model, reading times, calibrations factors applied and their derivation, etc.* *Nature of quality control procedures adopted (eg standards, blanks, duplicates, external laboratory checks) and whether acceptable levels of accuracy (ie lack of bias) and precision have been established.*	• 36 Samples comprising 32 field samples, 3 Certified Reference Materials, and 1 blank were submitted to Actlabs in Ancaster, Ontario. All QAQC samples passed the criteria when reviewed. • Samples were prepared using protocol RX1, in which the samples are dried crushed until P80 passes @-2mm. Homogenisation is then carried out using a riffle splitter. A 250g representative sample is then obtained. Pulversiging to P95 passing @<105micron is then completed. All samples were then analysed by soidum peroxide fusion with ICP-OES and ICP-MS finish. Samples were also assayed for gold using the Actlabs 1A2-ICP package which is a fire assay with ICP-MS finish. • Handheld XRF measurements were carried out at the IOS Services Géoscientifiques laboratory with a portable X-ray fluorescence spectrometer (Olympus Vanta VMR). A count time of 90 seconds was used using the 3 beam Geochemistry mode. Rousseau's fundamental algorithm for major elements and Compton normalisation were employed. Calibration samples were tested daily and certified reference materials were used for control purposes. Handheld XRF sampling inherently has numerous issues and limitations, results must be handled with caution.determinations by handheld XRF are considered semi-quantitative at best, as such the XRF data has only been used to calculate Potassium and Rubidium for geological fractionation analysis.
Verification of sampling and assaying	*The verification of significant intersections by either independent or alternative company personnel.* *The use of twinned holes.* *Documentation of primary data, data entry procedures, data verification, data storage (physical and electronic) protocols.* *Discuss any adjustment to assay data.*	• No data verification has occurred. • The company has verified the presence of historically reported outcrop lithologies during the reconnaissance phase of exploration works.
Location of data points	*Accuracy and quality of surveys used to locate drill holes (collar and down-hole surveys), trenches, mine workings and other locations used in Mineral Resource estimation.* *Specification of the grid system used.* *Quality and adequacy of topographic control.*	• All geological maps utilising NAD83 / UTM zone 18N are sufficiently annotated. • All geological locations utilising WGS84 / UTM zone 19N are sufficiently annotated. • All reported locations are assumed to have a +/- 10m accuracy via use of handheld GPS instruments.
Data spacing and distribution	*Data spacing for reporting of Exploration Results.* *Whether the data spacing and distribution is sufficient to establish the degree of geological and grade continuity appropriate for the Mineral Resource and Ore Reserve estimation procedure(s) and classifications applied.* *Whether sample compositing has been applied.*	• Data points are guided by field outcrops instead of regular spacing. • Exploration data contained within is not appropriate for calculating Mineral Resources. Insufficient exploration has been completed at this stage to warrant such calculations. • No compositing of results has been reported in this announcement.

Orientation of data in relation to geological structure	*Whether the orientation of sampling achieves unbiased sampling of possible structures and the extent to which this is known, considering the deposit type.* *If the relationship between the drilling orientation and the orientation of key mineralised structures is considered to have introduced a sampling bias, this should be assessed and reported if material.*	• Field observation points are guided by outcrop location instead of specific orientation. • No relationship between outcrop mapping sites is known.
Sample security	*The measures taken to ensure sample security.*	• Field samples have been collected and stored by IOS Geosciences, under the supervision of Mr. Hugues Longuepee P.Geo.. Mr. Longuepee, is QP and a Member of the Ordre des geologues du Quebec.
Audits or reviews	*The results of any audits or reviews of sampling techniques and data.*	• No audits or reviews have been undertaken.

SECTION 2 - REPORTING OF EXPLORATION RESULTS

Criteria	**JORC Code explanation**	**Commentary**
Mineral tenement and land tenure status	*Type, reference name/number, location and ownership including agreements or material issues with third parties such as joint ventures, partnerships, overriding royalties, native title interests, historical sites, wilderness or national park and environmental settings.* *The security of the tenure held at the time of reporting along with any known impediments to obtaining a licence to operate in the area.*	• The Hiver and Dalmas projects are located in the James Bay Region of Quebec, Canada. • The Hiver and Dalmas projects are centered at approximately 54°03'20"N, 72°01'57"W, and 53°36'01"N, 71°43'18"W respectively. • The Hiver and Dalmas Project are 100% owned by Lithium Rabbit Quebec Pty Ltd. • Lightning Minerals Ltd signed a binding letter of intent on 11th August 2023 to acquire two project areas, Dalmas and Hiver in the James Bay region of Quebec, Canada. • The Dalmas project is comprised of 92 mining claims totaling 4,707Ha • The Hiver project is comprised of 62 mining claims totaling 3137Ha • Lithium Rabbit Quebec Pty Ltd retains a 2.0% Net Smelter Royalty, of which 1.0% may be bought back by the Company at any time for A$1.0 million. The NSR is applicable across both projects. • All tenements are in good standing and are presented in this announcement.
Exploration done by other parties	*Acknowledgment and appraisal of exploration by other parties.*	• Geological datasets were sourced from Ministère des Resources Naturelles et des Forêts (MERN), the Quebec geological survey.
Geology	*Deposit type, geological setting and style of mineralisation.*	• The mineralisation style sought at the Dalmas and Hiver Projects is Lithium bearing pegmatites.
Drill hole Information	*A summary of all information material to the understanding of the exploration results including a tabulation of the following information for all Material drill holes:* ○ *easting and northing of the drill hole collar* ○ *elevation or RL (Reduced Level – elevation above sea level in metres) of the drill hole collar* ○ *dip and azimuth of the hole* ○ *down hole length and interception depth* ○ *hole length.* *If the exclusion of this information is justified on the basis that the information is not Material and this exclusion does not detract from the*	• No drillholes are reported.

	understanding of the report, the Competent Person should clearly explain why this is the case.	
Data aggregation methods	*In reporting Exploration Results, weighting averaging techniques, maximum and/or minimum grade truncations (eg cutting of high grades) and cut-off grades are usually Material and should be stated.* *Where aggregate intercepts incorporate short lengths of high grade results and longer lengths of low grade results, the procedure used for such aggregation should be stated and some typical examples of such aggregations should be shown in detail.* *The assumptions used for any reporting of metal equivalent values should be clearly stated.*	• No weighted averaging techniques have been reported, and no max/min cutoffs have been used.
Relationship between mineralisation widths and intercept lengths	*These relationships are particularly important in the reporting of Exploration Results.* *If the geometry of the mineralisation with respect to the drill hole angle is known, its nature should be reported.* *If it is not known and only the down hole lengths are reported, there should be a clear statement to this effect (eg 'down hole length, true width not known').*	• No drill results are reported.
Diagrams	*Appropriate maps and sections (with scales) and tabulations of intercepts should be included for any significant discovery being reported These should include, but not be limited to a plan view of drill hole collar locations and appropriate sectional views.*	• Appropriate two-dimensional plans have been included in the body of this announcement.
Balanced reporting	*Where comprehensive reporting of all Exploration Results is not practicable, representative reporting of both low and high grades and/or widths should be practiced to avoid misleading reporting of Exploration Results.*	• Lightning Minerals is committed to accurately detailing the results from any exploration activities, and reporting results in a balanced manner.
Other substantive exploration data	*Other exploration data, if meaningful and material, should be reported including (but not limited to): geological observations; geophysical survey results; geochemical survey results; bulk samples – size and method of treatment; metallurgical test results; bulk density, groundwater, geotechnical and rock characteristics; potential deleterious or contaminating substances.*	• Lightning Minerals Ltd engaged IOS Geosciences during October 2023. • IOS Geosciences have completed field reconnaissance as planned and reported results as contained herein. • All pegmatite lithologies mapped within the project areas require geochemical analysis to ascertain if a relationship to relevant mineralisation processes are present. The presence of pegmatites in outcrop and boulders alone is not sufficient to assume the presence of mineralisation. • Lightning Minerals is not aware of any data that may have been omitted from this announcement.
Further work	*The nature and scale of planned further work (eg tests for lateral extensions or depth extensions or large-scale step-out drilling).* *Diagrams clearly highlighting the areas of possible extensions, including the main geological interpretations and future drilling areas, provided this information is not commercially sensitive.*	• As detailed in text. • Exploration efforts will continue with a consolidation and review of all previous geological and geophysical data available for the project areas.

APPENDIX 2 - TABLE 1: REPORTING VISUAL ESTIMATES OF MINERALISATION

Project	Sample ID	Geology/Comments
Dalmas	-	No lithium mineralisation is reported within samples taken from the Dalmas project. At this early stage of exploration all samples represent exploration stage sampling to understand the background geochemistry of reported pegmatites.
Hiver	-	No lithium mineralisation is reported within samples taken from the Hiver project. At this early stage of exploration all samples represent exploration stage sampling to understand the background geochemistry of reported pegmatites.

APPENDIX 2 - TABLE 2: BOULDER LITHOLOGY - DALMAS AND HIVER PROJECTS

Lithology	Primary Minerals (Major >30%)	Secondary Minerals (Minor >5% and <30%)	Accessory Minerals (Trace <5%)	Boulder/In-Situ	Easting (WGS 84, UTMZ19N)	Northing (WGS 84, UTMZ19N)
Pegmatite, granite	Quartz, Feldspar			Boulder	321534	5943212
Pegmatite, granite	Quartz, feldspar, biotite			Boulder	321609	5943239
Pegmatite, granite	Quartz, feldspar			Boulder	302185	5995241
Pegmatite	Quartz, biotite, feldspar			Boulder	320208	5943621
Pegmatite	Quartz	feldspar	biotite	Boulder	320319	5943689
Pegmatite	Quartz	feldspar		Boulder	320644	5944038
Pegmatite	Quartz	feldspar		Boulder	320764	5943931
Pegmatite	Quartz, feldspar			Boulder	320955	5943664
Pegmatite	Quartz, feldspar			Boulder	321080	5943461
Pegmatite	Quartz, feldspar			Boulder	321367	5943217
Pegmatite	Quartz, feldspar			Boulder	321665	5943261
Pegmatite	Quartz, feldspar			Boulder	321678	5943131
Pegmatite	Quartz, feldspar		biotite	Boulder	317340	5943291
Pegmatite	Quartz, feldspar		biotite	Boulder	317574	5943458
Pegmatite	Quartz, feldspar	biotite		Boulder	302356	5994663
Pegmatite	feldspar	Tourmaline?		Boulder	299651	5992047
Pegmatite	quartz, feldspar, biotite			Boulder	299924	5992021
Pegmatite	quartz, feldspar biotite			Boulder	301293	5993548
Pegmatite	quartz, feldspar		biotite	Boulder	324683	5940579
Pegmatite	quartz, feldpsar, biotite			Boulder	324419	5940539
Pegmatite	quartz, feldspar. Biotite			Boulder	321436	5942098
Pegmatite	quartz, feldspa Biotite			Boulder	321410	5941963
Pegmatite	quartz, feldspar, biotite			Boulder	322639	5941207

Lithology	Primary Minerals (Major >30%)	Secondary Minerals (Minor >5% and <30%)	Accessory Minerals (Trace <5%)	Boulder/In-Situ	Easting (WGS 84, UTMZ19N)	Northing (WGS 84, UTMZ19N)
Pegmatite	quartz, feldspar			Boulder	319995	5940922
Paragneiss, pegmatite	quartz, feldspar			Boulder	300907	5992713
Paragneiss, pegmatite	quartz, feldspar			Boulder	302778	5992764
Paragneiss	quartz, feldpsar, biotite			Boulder	302185	5994603
Metased	quartz	biotite		Boulder	319778	5943932
Iron Formation?	tanslucent bottle green mineral			Boulder	321655	5941563
Granodiorite/biotite granite	None recorded			Boulder	313648	5944445
Granitoid	None recorded			Boulder	320132	5944252
Granitoid	Quartz	biotite	feldspar	Boulder	319853	5944115
Granitoid	Quartz	biotite	feldspar	Boulder	319724	5944048
Granitoid	quartz, feldspar, biotite			Boulder	299989	5991016
Granite	Quartz	biotite	feldspar	?	319664	5943818
Granite	Quartz	biotite	feldspar	?	319588	5943725
Granite	Quartz	biotite		Boulder	319988	5943761
Granite	Quartz	biotite		Boulder	320011	5943829
Granite	Quartz	biotite, feldspar		Boulder	320100	5944111
Granite	quartz	biotite	feldspar	Boulder	320078	5944026
Granite	Quartz	biotite, feldspar		Boulder	320037	5943942
Granite	quartz, feldspar, biotite			Boulder	323729	5940752
Granite	quartz, feldspar, biotite			Boulder	322919	5940763
Felsic intrusive	quartz, feldspar			Boulder	315759	5943616
Pegmatite, granite	quartz, feldspar			Boulder	302185	5995241

APPENDIX 2 - TABLE 3: IN SITU OUTCROP LITHOLOGY - DALMAS AND HIVER PROJECTS

Lithology	Primary Minerals (Major >30%)	Secondary Minerals (Minor >5% and <30%)	Accessory Minerals (Trace <5%)	Boulder/In-Situ	Easting (WGS 84, UTMZ19N)	Northing (WGS 84, UTMZ19N)
Gneiss	quartz, feldspar	biotite		In-Situ	301376	5996626
Gneiss	quartz, feldspar	biotite		In-Situ	300602	5996362
Gneiss, Granite	None recorded			In-Situ	301401	5996766
Gneiss, Granodiorite	None recorded			In-Situ	300257	5995856
Gniess	biotite	amphibole		In-Situ	313279	5941315
Granite	Quartz			In-Situ	320267	5944011
Granite	quartz, biotite, feldspar			In-Situ	319707	5943745
Granite	quartz, biotite, feldspar			In-Situ	320650	5943816
Granite	None recorded			In-Situ	301371	5996569
Granite	None recorded			In-Situ	300796	5996345
Granite	biotite	quartz	feldspar	In-Situ	325035	5941916
Granite	quartz, feldspar, biotite			In-Situ	323320	5940746
Granite	quartz, feldspar, biotite			In-Situ	323231	5940829
Granite	quartz, feldspar, biotite			In-Situ	323249	5940963
Granite	None recorded			In-Situ	313113	5941376
Granite, pegmatite	quartz, feldpsar, biotite			In-Situ	318126	5943728
Granite, pegmatite	None recorded		biotite	In-Situ	301184	5996766
Granite/granodiorite	None recorded			In-Situ	301402	5996604
Granitoid	Quartz	biotite, feldspar		In-Situ	320246	5944171
Granitoid	quartz, feldspar	biotite		In-Situ	320857	5943795
Granodiorite	amphibole			In-Situ	300319	5995896
Granodiorite	None recorded			In-Situ	317896	5941536
Metased/pegmatite	quartz, feldpsar, biotite			In-Situ	317126	5943193
Paragniess	quartz, biotite			In-Situ	303093	5996578
Paragniess	None recorded			In-Situ	301355	5996735
Paragniess	None recorded			In-Situ	300720	5996172
Paragniess	None recorded			In-Situ	317855	5941523
Paragniess	None recorded			In-Situ	313103	5941355
Pegmatite	quartz, feldspar	biotite		In-Situ	316812	5943426
Pegmatite	quartz, feldspar, biotite			In-Situ	318085	5943680
Pegmatite, granite	quartz, feldspar, biotite			In-Situ	317186	5943560
Pegmatite, granite	feldspar, quartz		biotite	In-Situ	317155	5943514
Pegmatite, granite	None recorded	biotite		In-Situ	317789	5941486

APPENDIX 2 - TABLE 4: FIELD SAMPLE DESCRIPTION - DALMAS AND HIVER PROJECTS

Lithology	Sample No.	Primary Minerals (Major >30%)	Secondary Minerals (Minor >5% and <30%)	Accessory Minerals (Trace <5%)	Boulder / In-Situ	Sampled / Mapped	Easting (WGS84, UTM Z19N)	Northing (WGS84, UTM Z19N)
Vein?	159990066	Quartz, Feldspar, Biotite			In-Situ	Sample	322784	5940575
Pegmatitic Granite	159990008	Quartz, Feldspar, Biotite			In-Situ	Sample	318259	5944242
Pegmatitic Granite	159990018	Not recorded			In-Situ	Sample	313158	5941412
Pegmatite, gniess	159990007	Quartz, Feldspar	Biotite		Boulder	Sample	299345	5993042
Pegmatite	159990054	Quartz	Feldspar, Biotite		In-Situ	Sample	320857	5943805
Pegmatite	159990005	Quartz, Feldspar		Biotite, Beryl?	In-Situ	Sample	318023	5943540
Pegmatite	159990006	Quartz, Feldspar		Biotite	In-Situ	Sample	300799	5996240
Pegmatite	159990063	Quartz, Feldspar			In-Situ	Sample	322763	5941351
Pegmatite	159990065	Quartz, Feldspar, Biotite			In-Situ	Sample	319635	5940724
Pegmatite	159990016	Feldspar, Quartz, Biotite			In-Situ	Sample	313095	5941174
Pegmatite	159990051	Feldspar	Biotite, Quartz		Boulder	Sample	319791	5944114
Pegmatite	159990053	Quartz, Biotite, Feldspar			Boulder	Sample	320654	5943869
Pegmatite	159990001	Quartz, Feldspar		Biotite	Boulder	Sample	315883	5943584
Pegmatite	159990002	Quartz, Feldspar	Biotite	Beryl? Apatite?	Boulder	Sample	316859	5943604
Pegmatite	159990003	Quartz, Feldspar		Biotite	Boulder	Sample	317026	5943450
Pegmatite	159990056	Quartz, Feldspar, Biotite			Boulder	Sample	303045	5996543
Pegmatite	159990057	Quartz, feldpsar, Biotite			Boulder	Sample	299346	5991793
Pegmatite	159990058	Quartz, Feldspar Biotite			Boulder	Sample	321499	5942787
Pegmatite	159990059	Quartz, Feldspar Biotite			Boulder	Sample	320937	5942336
Pegmatite	159990008	Quartz, feldpsar, Biotite			Boulder	Sample	317946	5944235
Pegmatite	159990064	Quartz, Feldspar, Biotite			Boulder	Sample	319758	5940970
Pegmatite	159990012	Biotite	Feldspar		Boulder	Sample	318540	5942630
Pegmatite	159990013	Biotite		Pyrite	Boulder	Sample	319092	5943038
Paragneiss, Pegmatite	159990055	Quartz, Feldspar, Biotite		magnetite	Boulder	Sample	302519	5995547
Metased/Pegmatite	159990052	Quartz	Feldspar	Biotite	Boulder	Sample	320087	5943533
Iron Formation?	159990062	tanslucent bottle green mineral?			In-Situ	Sample	325035	5941913
Iron Formation?	159990061	Sulphides	Quartz		Boulder	Sample	320862	5942250
Granitic Pegmatite	159990017	Feldspar, Quartz		Biotite	In-Situ	Sample	313078	5941189
Granite/granodiorite	159990014	Feldspar, Quartz	Biotite	magnetite	In-Situ	Sample	317777	5941478
Granite/granodiorite	159990011	Feldspar, Quartz	Biotite, amphibole		Boulder	Sample	317565	5944043
Granite	159990004	Quartz, Feldspar	Biotite		In-Situ	Sample	317962	5943682
Amphibolite/biotite paragniess	159990015	Biotite, amphibole?			In-Situ	Sample	317812	5941492

APPENDIX 2 - TABLE 5: WHOLE ROCK GEOCHEMICAL LCT ANALYSIS DALMAS AND HIVER PROJECTS

Sample	Location	Rock	Li (ppm)	Cs (ppm)	Ta (ppm)	Easting (WGS 84, Zone 19N)	Northing (WGS 84, Zone 19N)
159990001	Dalmas	Pegmatite	<15	3.4	0.6	315883	5943584
159990002	Dalmas	Pegmatite	<15	5.7	0.6	316859	5943604
159990003	Dalmas	Pegmatite	<15	5.4	0.9	317026	5943450
159990004	Dalmas	Granite	28	4.6	2.2	317962	5943682
159990005	Dalmas	Granite	<15	7.3	0.6	318023	5943540
159990006	Hiver	Pegmatite	<15	2.9	0.8	300799	5996240
159990007	Hiver	Pegmatite	<15	2.8	3.1	299345	5993042
159990008	Dalmas	Pegmatite	<15	4.6	0.8	317946	5944235
159990009	Dalmas	Pegmatite	30	9.6	1.9	318259	5944242
159990011	Dalmas	Granodiorite	<15	0.7	1	317565	5944043
159990012	Dalmas	Granite	17	2.4	0.7	318540	5942630
159990013	Dalmas	Pegmatite	<15	3.9	0.6	319092	5943038
159990014	Dalmas	Granodiorite	<15	2.9	0.6	317777	5941478
159990015	Dalmas	Amphibolite	30	2.3	0.6	317812	5941492
159990016	Dalmas	Pegmatite	<15	3	0.4	313095	5941174
159990017	Dalmas	Pegmatite	<15	2.6	0.3	313078	5941189
159990018	Dalmas	Granite	<15	2.9	0.8	313158	5941412
159990051	Dalmas	Pegmatite	<15	6.4	1.1	319791	5944114
159990052	Dalmas	Pegmatite	16	3.7	1.2	320087	5943533
159990053	Dalmas	Pegmatite	<15	2.3	0.6	320654	5943869
159990054	Dalmas	Pegmatite	23	5.2	0.9	320857	5943805
159990055	Hiver	Pegmatite	<15	0.9	1.3	302519	5995547
159990056	Hiver	Pegmatite	<15	0.6	0.2	303045	5996543
159990057	Hiver	Pegmatite	16	0.8	2.3	299346	5991793
159990058	Dalmas	Pegmatite	<15	5.6	1.8	321499	5942787
159990059	Dalmas	Pegmatite	<15	4.5	1.7	320937	5942336
159990061	Dalmas	Iron Formation	<15	0.9	0.4	320862	5942250
159990062	Dalmas	Ultramafic	<15	0.3	0.2	325035	5941913
159990063	Dalmas	Pegmatite	<15	2.7	0.3	322763	5941351
159990064	Dalmas	Pegmatite	33	4.9	1.3	319758	5940970
159990065	Dalmas	Pegmatite	<15	1.5	0.7	319635	5940724
159990066	Dalmas	Pegmatite	<15	1.7	1.1	322784	5940575

APPENDIX 2 - TABLE 6: WHOLE ROCK GEOCHEMICAL K/RB ANALYSIS AND RATIOS DALMAS AND HIVER PROJECTS

Sample	Location	Rb (ppm)	K (%)	K (ppm)	K/Rb	Easting (WGS 84, Zone 19N)	Northing (WGS 84, Zone 19N)
159990001	Dalmas	239	6.6	66000	276.2	315883	5943584
159990002	Dalmas	233	8.3	83000	356.2	316859	5943604
159990003	Dalmas	145	4.2	42000	289.7	317026	5943450
159990004	Dalmas	123	3.8	38000	308.9	317962	5943682
159990005	Dalmas	293	9.3	93000	317.4	318023	5943540
159990006	Hiver	219	6.5	65000	296.8	300799	5996240
159990007	Hiver	254	9.7	97000	381.9	299345	5993042
159990008	Dalmas	201	7.3	73000	363.2	317946	5944235
159990009	Dalmas	188	3.7	37000	196.8	318259	5944242
159990011	Dalmas	84.8	3.9	39000	459.9	317565	5944043
159990012	Dalmas	67.8	1.8	18000	265.5	318540	5942630
159990013	Dalmas	152	4.3	43000	282.9	319092	5943038
159990014	Dalmas	84.9	2.7	27000	318.0	317777	5941478
159990015	Dalmas	29.6	0.9	9000	304.1	317812	5941492
159990016	Dalmas	208	7.5	75000	360.6	313095	5941174
159990017	Dalmas	226	7.9	79000	349.6	313078	5941189
159990018	Dalmas	85.6	2.9	29000	338.8	313158	5941412
159990051	Dalmas	197	5.8	58000	294.4	319791	5944114
159990052	Dalmas	205	6.4	64000	312.2	320087	5943533
159990053	Dalmas	204	7.4	74000	362.7	320654	5943869
159990054	Dalmas	144	4	40000	277.8	320857	5943805
159990055	Hiver	36.4	1.6	16000	439.6	302519	5995547
159990056	Hiver	83.2	3.1	31000	372.6	303045	5996543
159990057	Hiver	110	3.3	33000	300.0	299346	5991793
159990058	Dalmas	161	5.5	55000	341.6	321499	5942787
159990059	Dalmas	219	6.9	69000	315.1	320937	5942336
159990061	Dalmas	4.1	0.2	2000	487.8	320862	5942250
159990062	Dalmas	4.7	0.3	3000	638.3	325035	5941913
159990063	Dalmas	173	4.8	48000	277.5	322763	5941351
159990064	Dalmas	162	5	50000	308.6	319758	5940970
159990065	Dalmas	64.2	1.2	12000	186.9	319635	5940724
159990066	Dalmas	92.1	3.8	38000	412.6	322784	5940575

APPENDIX 2 - TABLE 7: FELDSPAR HANDHELD XRF K/RB ANALYSIS AND RATIOS DALMAS AND HIVER PROJECTS

Sample	Location	No. of Reading	Mean Rubidium (Rb) (ppm)	One Std Dev. Rb	Mean Potassium (K) (ppm)	One Std Dev . K	K/Rb Ratio	Easting (WGS 84, Zone 19N)	Northing (WGS 84, Zone 19N)
159990001	Dalmas	6	373.5	62.3	100325	18646	268.6	315883	5943584
159990002	Dalmas	6	272.3	179.6	96814	47188	355.5	316859	5943604
159990003	Dalmas	5	358.2	126	93969	44355	262.3	317026	5943450
159990004	Dalmas	5	79	182.6	3116	44065	393.9	317962	5943682
159990005	Dalmas	5	305	129	98461	39616	322.8	318023	5943540
159990006	Hiver	4	243	15.6	62827	8587	258.5	300799	5996240
159990007	Hiver	6	315.2	117.5	135616	46997	430.3	299345	5993042
159990008	Dalmas	5	293.4	164.3	111916	57645	381.4	317946	5944235
159990009	Dalmas	5	81.6	117.6	28926	59931	354.5	318259	5944242
159990011	Dalmas	6	203.8	145.6	101646	59775	498.7	317565	5944043
159990012	Dalmas	5	166.4	97	55093	50507	331.1	318540	5942630
159990013	Dalmas	5	311.8	70.3	82525	19098	264	319092	5943038
159990014	Dalmas	5	85	135.9	23381	36109	275.1	317777	5941478
159990015	Dalmas	4	40.3	172.4	14333	49536	356.1	317812	5941492
159990016	Dalmas	5	209.4	111.6	69313	34937	331	313095	5941174
159990017	Dalmas	5	239	53.9	86598	20650	362.3	313078	5941189
159990018	Dalmas	5	152.6	115.4	60964	36477	399.5	313158	5941412
159990051	Dalmas	5	254.2	59.5	84438	20085	332.2	319791	5944114
159990052	Dalmas	5	254.2	71.5	85632	25208	339.5	320087	5943533
159990053	Dalmas	5	289.8	79.7	103486	34273	357.1	320654	5943869
159990054	Dalmas	6	233	71.7	63825	21287	273.9	320857	5943805
159990055	Hiver	5	14.7	60.1	4495	41366.4	306.5	302519	5995547
159990056	Hiver	5	111.2	98.8	53546	31563.3	481.5	303045	5996543
159990057	Hiver	6	195.5	91.4	56468	32688.2	288.8	299346	5991793
159990058	Dalmas	6	265.2	100.4	95240	35426.9	359.2	321499	5942787
159990059	Dalmas	5	165	96.1	46713	34512.9	283.1	320937	5942336
159990061	Dalmas	n/a							
159990062	Dalmas	n/a							
159990063	Dalmas	5	235.6	64.5	68808	26584.1	292.1	322763	5941351
159990064	Dalmas	5	221.8	63	79011	21796.7	356.2	319758	5940970
159990065	Dalmas	5	296.4	79.4	49405	31345.9	166.7	319635	5940724
159990066	Dalmas	6	61.6	265.3	22205	4207.6	360.5	322784	5940575