GM 68217

2013 MAPPING AND PROSPECTION PROGRAM, GRIZZLY PROPERTY

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Northern Superior Resources Inc.

Grizzly Property

2013 Mapping and Prospecting Program

Lamark/Guêttard Townships

NTS 32G14/32J03

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October 2013

SUMMARY

Northern Superior signed an Option Agreement to acquire the Grizzly property on the 9th of July, 2013, a mapping and prospecting program was initiated to confirm the gold potential of the Grizzly Property that was inferred from published data. The plan was to cover as much of the property as possible to make new discoveries during the planned 30 day program and document the historical showings.

Due to the project budget, the program was shortened which reduced the time needed to document the historical showings properly. The report documents the data compiled to date and new observations made during the reconnaissance phase of the program.

The 2013 prospecting and data compilation program was successful in documenting several new and historical fertile alteration zones. The geological mapping program confirmed that several undocumented first and second order shear zones occur within the property associated with alteration and mineralized zones. The limited time allocated to data compilation has identified assay results up to 25.3 g/t gold in some of these shear zones. The historical data compiled to date combined with the results of the current program has shown that all alteration zones identified to date contain at least anomalous gold values.

The Grizzly project would benefit greatly from a high resolution total field magnetic and horizontal gradiometer survey. This data would greatly support other exploration programs on the property in addition to defining specific geophysical targets. It would also greatly improve the geological interpretation of the property by tracing out geological units that respond well to magnetics.

A reconnaissance geochemical survey over the property would help define the more favourable portions of the fertile structures identified to date. Parts of the Property are also covered by a thick blanket of hummocky ground moraine and outwash sands. These areas would be suitable to RC drilling while areas with abundant outcrop could be sampled by a combination of excavator dug pits and hand dug pits.

The targets defined by the exploration programs described above (geological, geophysical and geochemical could then be used to prioritize targets for drill testing.

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1.0 INTRODUCTION

1.1 Objectives

After signing the option agreement for the Grizzly property on the 9th of July, 2013 from prospectors Gilbert Lamothe, Artnfield, QC and Marc Bouchard, Chapais, QC, Northern Superior initiated a mapping and prospecting program to confirm the gold potential of the area that was inferred from published data. The plan was to cover as much of the property as possible to make new discoveries during the planned 30 day program and document the historical showings.

Due to project budgets the program was shortened reducing the time needed to document the historical showings in detail. This report documents the data compiled to date and new observations made during the reconnaissance phase of the program.

1.2 Location and Access

The Property is located approximately 500 kilometres north of Montreal and 60 kilometres west of the town of Chapais, Québec and straddles the townships of Lamark and Guêttard. The property is bordered by the Chibougamau River on the South and Lac La Trève to the west. See Figures-1 and 2 below.

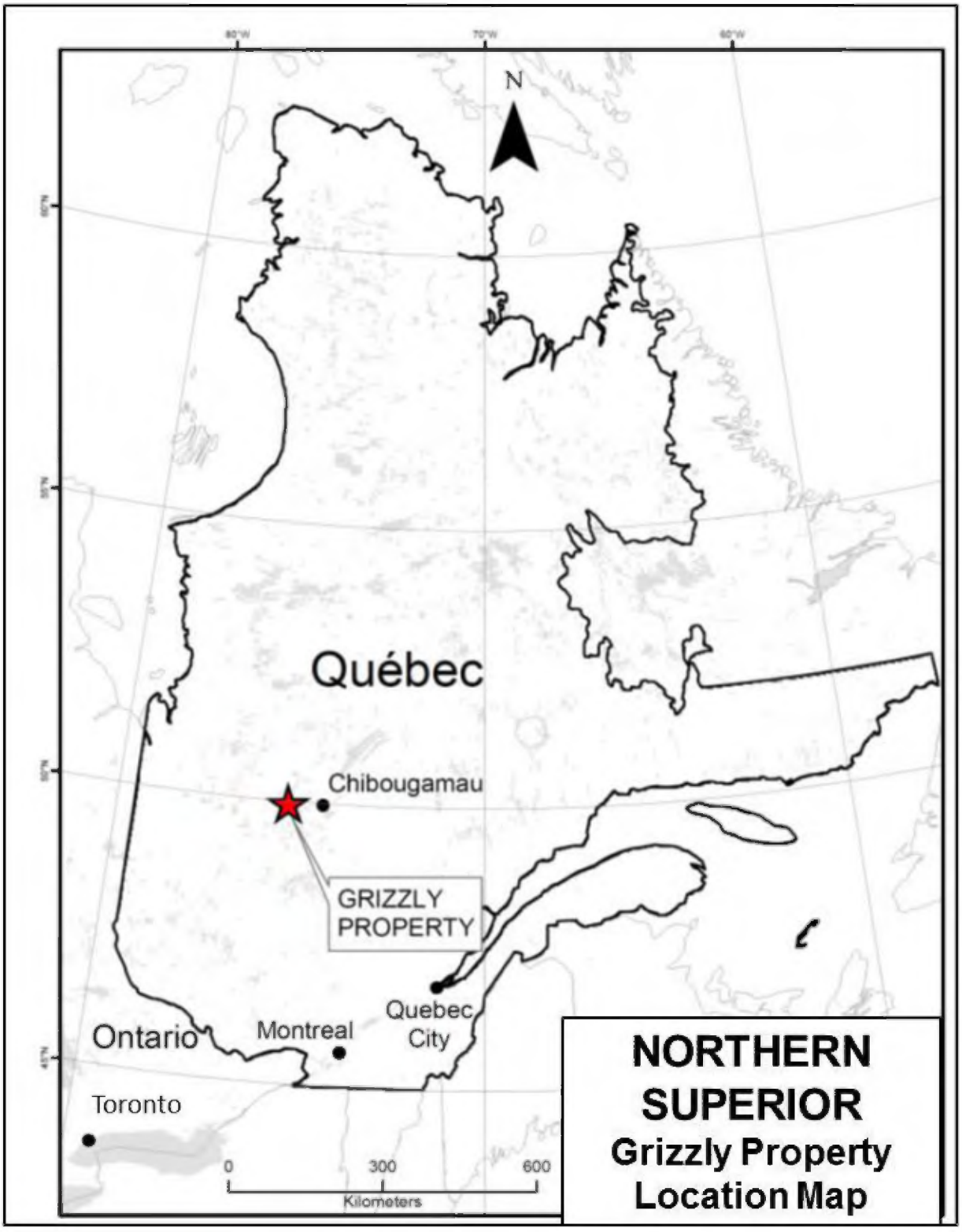

Figure 1: Property Location Map

Access to the Grizzly Property is accomplished by traveling west from Chapais along Highway 113 for 50 km then north for 20 km along the Poste Abitibi power line service road where three east-west all-weather lumber access roads reaches the property. Although longer another route to access the property is via the Barrette Nord road past the community of Oujé Bougoumou where the road crosses Brock River. Past the river a lumber road heads west along the north side of Chibougamau River and passes just south of the property to join Hydro Québec's north-south Poste Abitibi power line service road. Limited access to the Grizzly property can be achieved from these all-weather lumber access roads while the network of secondary or winter lumber access roads provide good access by ATV to a large portion of the property. Only the eastern part of the property remains somewhat remote. See Figure-02 below.

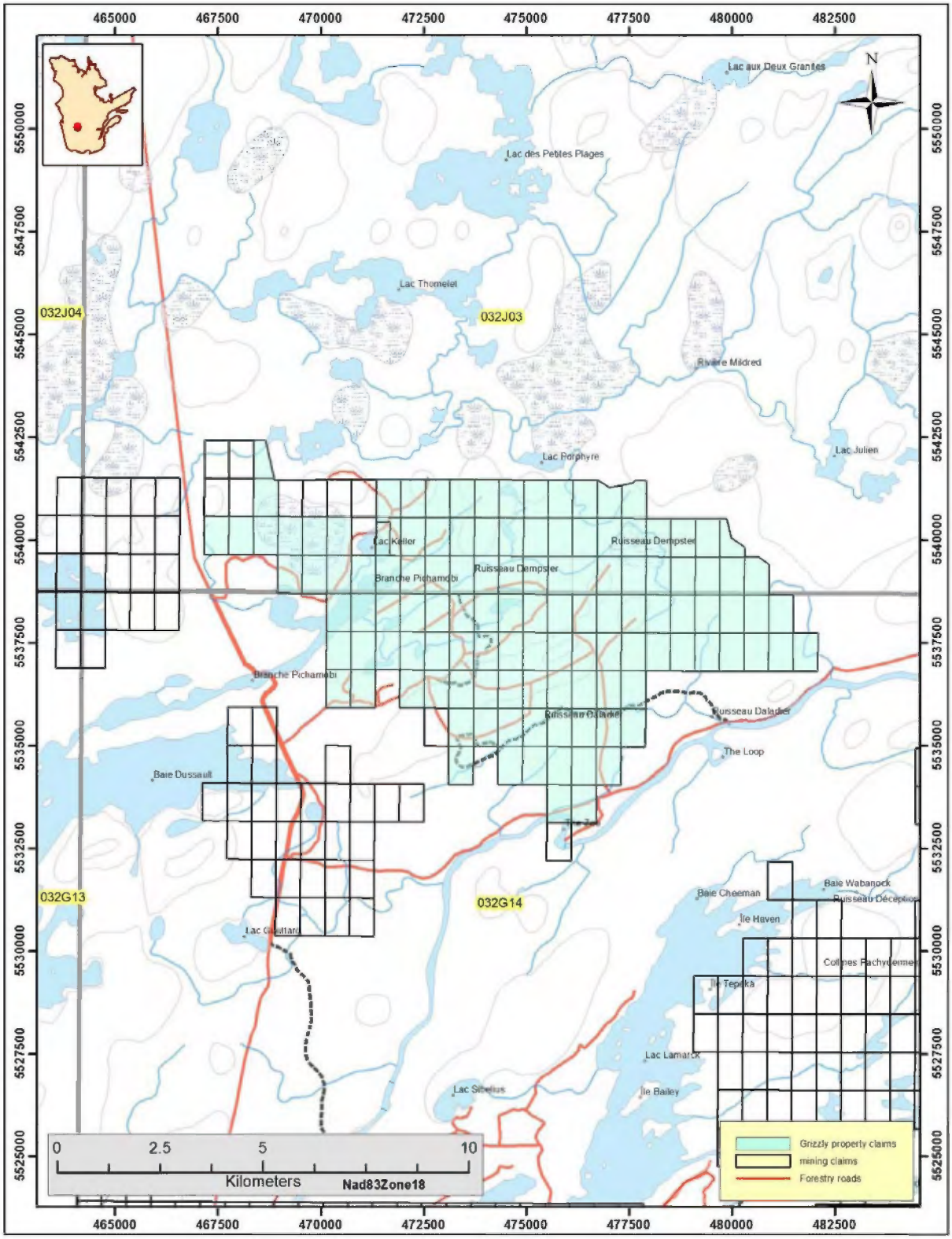

Figure 2: Property Access

1.3 Option Agreement

On July 9th, 2013 Northern Superior Resources Inc. signed an Option Agreement to acquire 100% interest in the Grizzly property under the following terms:

a) spending an aggregate of $1.7 million on exploration on the property over five years, as follows: i) $75,000 in year 1; ii) $100,000 in year 2; $300,000 in year 3; iv) $400,000 in year 4; and v) 825,000 in year 5;
b) making cash payments to the Optionors totaling $315,000 over five years, as follows: i) $35,000 in year 1; ii) $40,000 in year 2; iii) $80,000 in year 3; iv) $80,000 in year 4; and v) $80,000 in year 5;
c) Issue to the Optionors, 1,000,000 shares of the Company during the last 4 years of the option, as follows: i) 2000,000 in year 2; ii) 200,000 in year 3; iii) 300,000 in year 4; iv) 300,000 in year 5.

Northern Superior has the right to accelerate its exercise of the Option.

Upon exercise of the option, the Optionors shall retain a 1.0% NSR on any commercial production with Northern Superior having the right to buyback 0.5% of the NSR for $1.5 million, at any time. The parties have agreed that any further claims staked within 1.5 km of the property, shall be included as part of the option and any production shall be subject to the NSR.

1.4 Grizzly Property, Claims Disposition

The Grizzly claim group consists of 147 contiguous map staked claims for a total of 8,015 hectares covering about 8 km of north-south stratigraphy and 13 km of east-west strike length. See Figure 3 below. According to the GESTIM database reviewed on October 13th 2013 the property is made up of claims held by three separate entities. Northern Superior should make sure to acquire the subordinate agreements and understand there possible impact on the option agreement.

To maintain the claim group in good standing annual exploration expenditures in the amount of 183,000$ is required. As of the date the GESTIM database was acquired 13th of October 2013 assessment work credits of 109,630.87$ remained available for distribution. However one must consider that much of the funds were applied to a few claims only and may not be distributed across all the claims. **Appendix I** contains a complete list of claims making up the Grizzly property which differs somewhat from the list attached to the option agreement as a number of claims were acquired during the mapping and prospecting program to cover areas of interest. See list of claim in **Appendix I** for details.

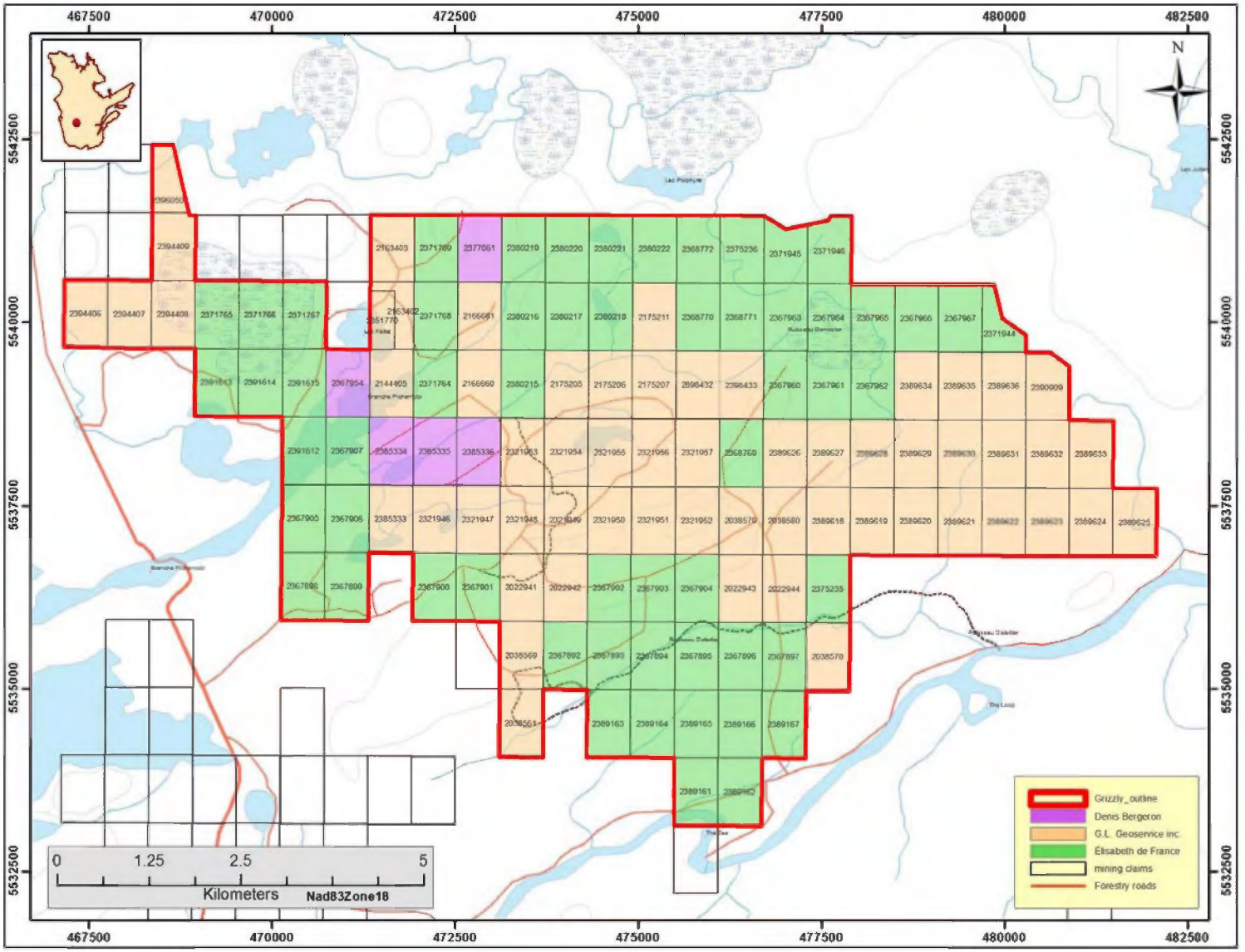

Figure 3: Claims Distribution Map

1.5 Previous Work

The list below is a summary of available assessment work reports obtained from Ministère des Resources Naturelles that refer to the Grizzly property and proximal area. Although mineral exploration started in the early thirties in the area, activity was limited due to the remoteness of the Chibougamau - Lac La Trève region. In the early fifties exploration activity increased after the construction of the first mine in Chibougamau and railway to service the mine. Exploration activity was renewed in the early eighties for base metal deposits after a large airborne geophysical survey was completed over the area.

1936 George E. Kellar for **Prospector Airways Ltd.** discovered visible gold in a north-northeast quartz vein north of a lake that bears his name.

1952-04-19 GM01849 Central Chibougamau Mines Limited,

1953-06-01 GM 2353 Brunswick Quebec Development Limited,

1956-05-16 Diomar Mining Exploration Syndicate, drilled 10 holes, carried out 43 miles of magnetic and 20 miles of electromagnetic surveys.

1956 - GM 05274 Barry Explorations Ltd, Eleven (11) diamond drill holes were drilled along the Dussault fault, about 5 kilometers east of the Grizzly prospect.

1956 - GM 07521-A and B) Tomiska Copper Mines Ltd, Six diamond drill holes were drilled, about 2 km north of the Grizzly prospect to test a Cu-Ni potential of a regional northeast striking olivine diabase dike.

1957-05-29 GM05367A Fortunata Mines Limited, completed a trenching, blasting program and assayed large samples for gold on Kellar Lake occurrence.

1957-08-12 GM07337A INCO, one drill hole tested a geophysical anomaly.

1959-04-30 GM08836 Roberval Mining Corp, reported on magnetic and electromagnetic surveys.

196? - GM 26458 Opémiska Copper Mines Ltd, in the late sixties and early seventies, Opémisca carried out a regional drilling program of 24 holes (W-1 to W-22 plus 70-L-1 and 70-L-2). These holes were mostly designed to test regional EM anomalies located 3 to 6 kms east of the Grizzly showing

1975-01-17 GM30719 T Hashimoto, evaluation of Kellar Lake prospect.

1976-04-06 Power Gold Mines, An IP survey was completed by Pheonix Geophysics over the historical Kellar Lake Showing.

1976-11-10 GM33038 Patino Mines (Quebec) Ltd, carried out electromagnetic surveys over airbone INPUT anomalies and drilled nine diamond drill holes. Two of these holes (L-2-1 and L-2-2) were drilled in an area located between 500 and 1,000 meters west of the Grizzly Showing.

1979-09-29 GM36010 Noranda Exploration, carried out geological mapping and geophysical surveys over INPUT anomalies and drilled several targets east of Kellar Lake Showing.

1981 - GM 37805 Meston Resources and La Société de Development de la Baie-James (SDBJ), carried out follow-up work on the Kellar Lake gold showing. It reported a 14 hole diamond drill program designed to test a 1 km section of the north-northeast quartz vein where an IP anomaly appears to be related to the Kellar vein/structure.

1980 to 1982 - MM 88-01 'Ministère de l'Énergie et des Resources (M.E.R.), A geological synthesis including mapping, compilation and new geological interpretation were elaborated

1986-87 - GM 48372 Minnova Inc, explored the "Zee" zone, referring to the point at which the Chibougamau river forms a characteristic "Z" shaped meander. Exploration included prospecting and mapping, rock sampling, geophysics, and the testing of three geophysical targets and one holes tested a structure related to the green carbonate zone containing anomalous in Au and As.

1988 - GM 49083 Exploration Noranda Ltée, completed a diamond drill program consisting of 14 holes (LP-88-04 to 17) essentially testing geophysical conductors within a felsic volcanic unit (Blondeau formation) in an area 2 km south of Keller lake.

2006 – GM Queenston Mining, carried out a stripping program over the Grizzly showing.

2007 – GM Queenston Mining, total field magnetic survey and phase domain induced polarization survey.

2007 – GM Queenston Mining, prospecting, stripping, and drilling program.

2010 Acrex Ventures Ltd carried out a five hole drill program to test the Grizzly showing at depth.

1.6 Physiography

The Grizzly property is located within the Abitibi physiographic region of the Canadian Shield. Given the generally rounded, flat topped hills which characterize the area, the region is relatively elevated, with elevations varying from 200 to 500 metres above sea level. The Hudson Bay Lowland and the Interior Plains border the upland to the north and west. Bedrock relief on the property is on the order of 10 to 20 metres which is further subdued by a thin to moderate mantle of glacial till and lacustrine sediments which drape the bedrock surface.

1.7 Climate and Vegetation

Despite its relatively southern location at 49°30′ north latitude, the Chapais-Chibougamau region is characterized by a subarctic climate. Winters are long, cold, and snowy with January-February lows of −40°C. Summers are warm and mild, though short, with a July high of 35°C. Overall, precipitation is high for a subarctic climate, with an average annual precipitation of 961 millimetres and 302 centimetres of snow each year. Precipitation is received year round, although the period February through April is frequently the driest.

Further climatic data for the region is summarized in Table 1.

Table 1: Summary of Climatic Data by Month - Chapais

Climatic Data	J	F	M	A	M	J	J	A	S	O	N	D
Daily avg. (C°)	-18.8	-16.6	-9.5	-0.5	7.9	14.0	16.3	14.9	9.3	2.9	-5.4	-14.8
Daily max (C°)	-13.4	-10.6	-3.3	5.0	13.7	20.0	22.2	20.4	13.9	6.6	-2.0	-10.2
Daily min (C°)	-24.2	-22.6	15.6	-5.9	2.1	8.0	10.4	9.4	4.7	-0.8	-8.7	-19.3
Extreme max (C°)	8.5	9.0	16.0	28.0	31.5	34.5	35.0	33.3	29.0	24.4	17.8	11.0
Extreme min (C°)	-43.3	-42.8	-38.0	-27.2	-16.1	-5.6	-0.6	-2.2	-6.0	-13.3	-30.0	-42.0
Rainfall (mm)	2.8	1.7	8.6	28.2	71.9	95.6	120.7	105.3	123.4	66.7	31.7	3.1
Snowfall (cm)	58.1	37.0	40.9	27.2	5.6	0.4	0.0	0.0	1.5	22.4	51.7	57.0
Total precip. (mm)	60.9	38.7	49.4	55.4	77.5	95.9	120.7	105.3	125.0	89.1	83.4	60.1

Source: Environment Canada - Canadian Climate Normals, 1971-2000.

At the time the work was done, a significant part of the property had been lumbered. The area was covered by a mature typical boreal forest dominated by black and white spruce, jack pine and balsam fir plus trembling aspen, birch, maple etc. Approximately a third of the area had been harvested. The most valued commercial species include, jack pine, black and white spruce which is currently harvested by the local lumber companies.

1.8 Legal and Cultural

The Grizzly property lies within the traditional lands of the Cree Eeyou Istchee James Bay region. More specifically the property lies within the traditional lands of the First Nation of Oujé Bougoumou and is considered category three lands. Category three lands are governed by the laws of Québec subject to fishing and hunting rights by the local First Nation people.

1.9 Exploration Program

The 2013 mapping and prospecting program was initiated to confirm the gold potential of the area that was inferred from a brief review of published data and a one day field visit. The plan was to cover as much of the property as possible to make new discoveries during the planned 30 day program and document historical showings. A team of four people was organized, which include three prospectors and one geologist using two ATV's to access remote parts of the property along winter lumber access roads. Garmin GPS's were used to navigate and collect waypoint of all outcrops found and keep a record of the traverses made. All GPS's were set to the NAD 83 datum. The teams generally worked separately and sometimes all four worked independently however in proximity to each other. Hand held radios were used for communication purposes in the field.

2.0 GENERAL GEOLOGY

The Grizzly Property is located in the northeast corner of the Matagami-Chibougamau Greenstone Belt (MCGB) of the Abitibi Subprovince of the Archean Superior Province. See Figure 4 below. The Matagami-Chibougamau Greenstone Belt is roughly 440 km long and varies from 25 to 100 km in width (Allard *et al.,* 1985). It is bordered to the north and south by poorly known Archean granite and gneissic terrains. At its western extremity, the MCGB is bounded by the Kapuskasing Structural Zone. To the east, the Abitibi Subprovince is bordered by the northeast-southwest striking Grenville Province, where the east-west stratigraphy of the belt is abruptly terminated along the Grenville Front which separates greenschist facies rocks of the MCGB from upper amphibolite facies rocks of the Grenville Province.

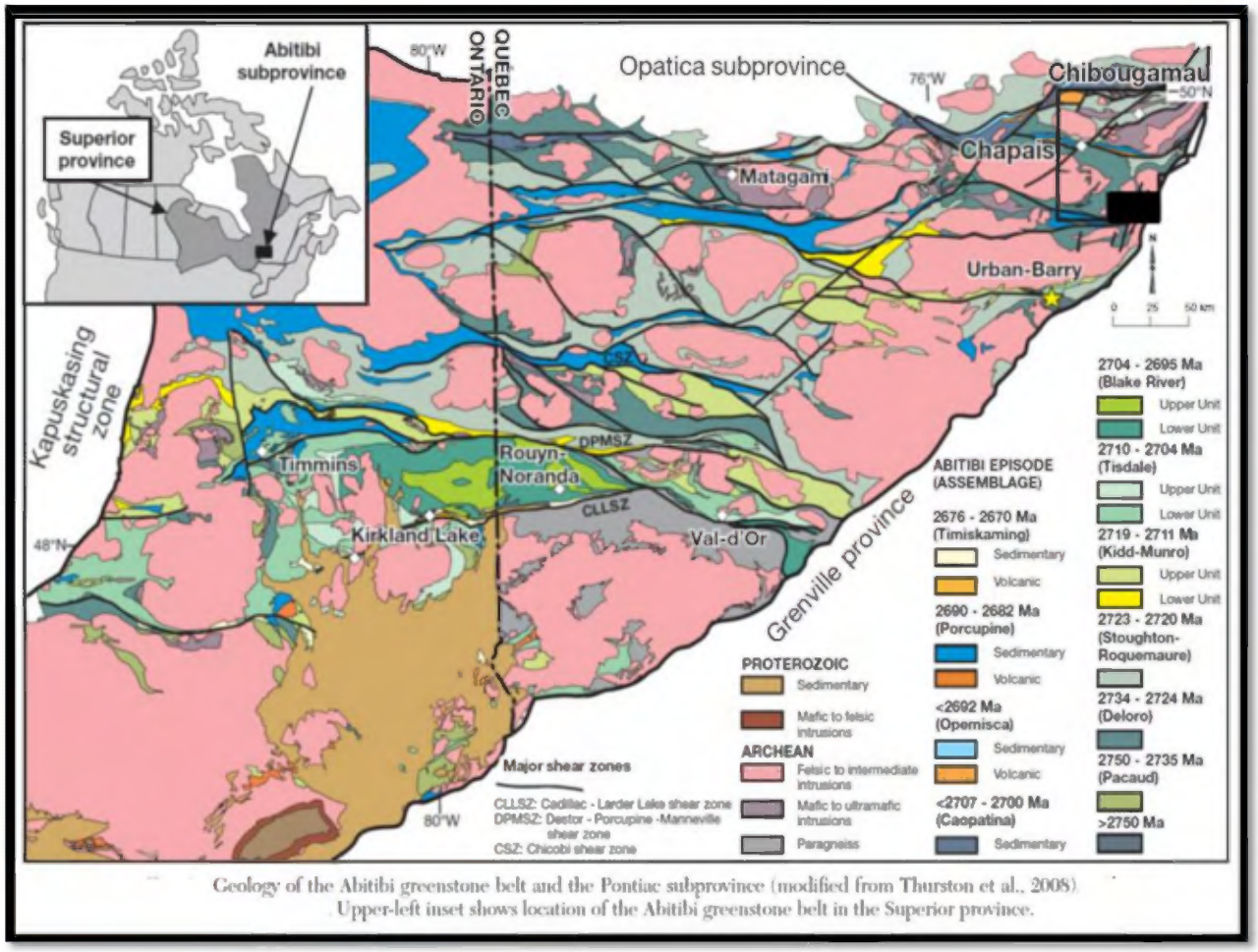

Figure 4: Regional Geology of the Abitibi Subprovince

2.1 General Setting and Rock Units

The geology of the Chibougamau-Chapais district consists of three Archean age mafic to felsic volcanic cycles (Roy Group) unconformably overlain by the Opemisca Group volcano-sedimentary sequence. See Figure 5 below. The volcanics and associated sediments are intruded by a series of large granitoid plutons and septa of probable basement (Racicot *et al.*, 1984) which influence the prevailing tectonic fabric of the district, typified by alternating

greenstone belts and aligned granitic plutons. Whereas plutons in the northern portion of the Abitibi Subprovince are made up mostly of tonalitic gneiss and tonalitic to dioritic intrusive rocks that constitute the Opatica Belt (Daigneault *et al.,* 1990), plutons in the southern portion of the subprovince are less abundant, with the internal geology of this belt broken into lozenges or blocks bounded by megashears such as the Cadillac-Larder Lake or Porcupine-Destor breaks (Figure 4), above.

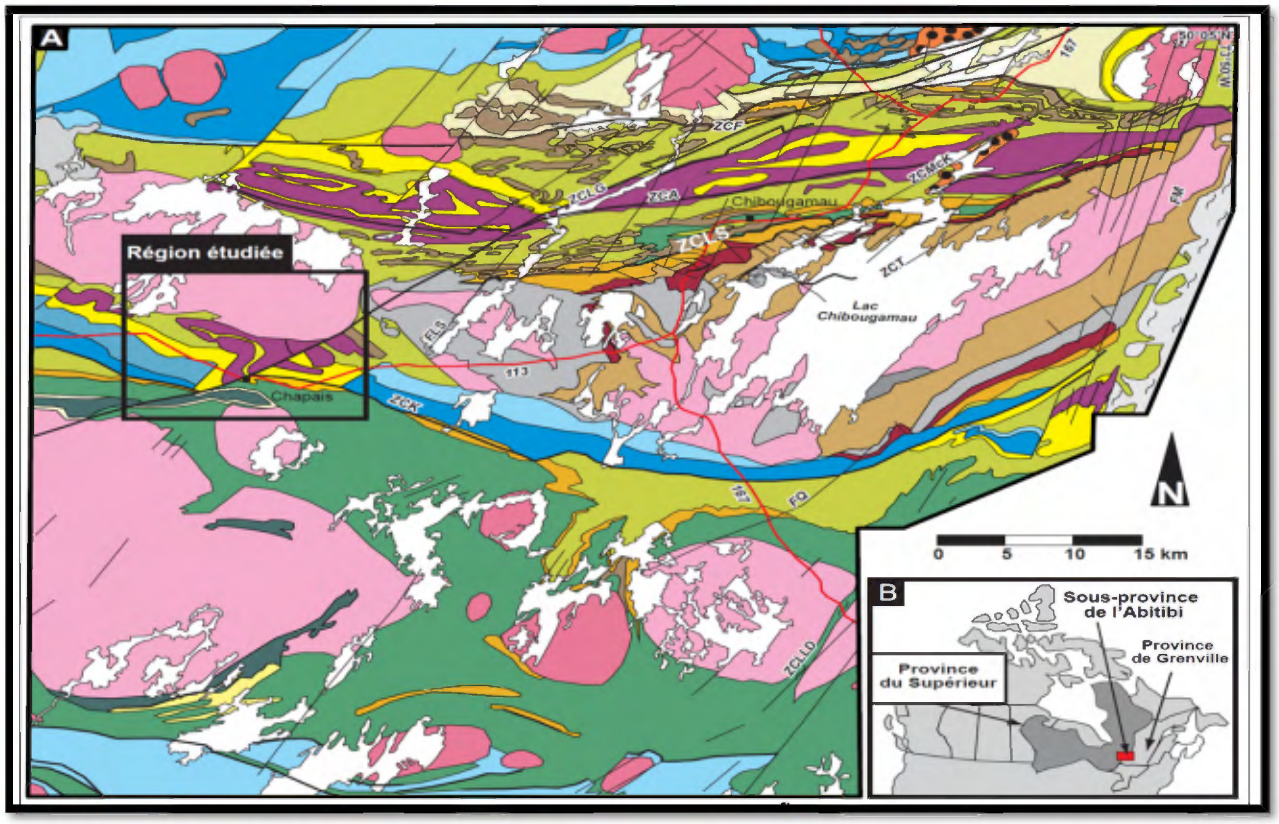

Figure 5: Regional Geology of Chibougamau-Chapais Area

A few isolated remnants of glacially derived, Proterozoic sedimentary rocks of the Chibougamau Formation occur throughout the district. One such Proterozoic intracratonic basin, the Mistassini Basin north of Chibougamau, is filled with clastic and chemical sediments of Aphebian age (Caty, 1976). Post metamorphic diabase dikes belonging to the Abitibi swarm have intruded all other lithology's and are dated by Allard *et al.*, (1985) at 1230 Ma. Table 2 below lists the regional bedrock stratigraphy of the Chibougamau-Chapais region.

Table 2: Regional Stratigraphy, Chapais-Chibougamau Area

PLEISTOCENE		Glacial till, sand and gravel		
Unconformity				
PROTEROZOIC		Diabase dikes		
		Unconformity		
		Chibougamau Fm.	tillite, paratillite, sediments	
Unconformity				
ARCHEAN	**Opémisca Group**	Haüy Fm	conglomerate, wacke, mudrocks, k-andesites	
		Stella Fm	conglomerate, wacke, mudrocks	
		Daubrée Fm	wacke, arkose, siltstone, felsic volcaniclastics	
	Unconformity			
	Roy Group (3r^{d} cycle)	Bordeleau Fm.	volcanogenic sediments	**Granitic Plutons**
		Blondeau / Gilman Fm.	mafic volcanics, sediments, volcaniclastics , rhyolite, basalt	
	Roy Group (2nd cycle)	Waconichi Fm.	Lac Savage iron formation	
			intermediate to felsic volcaniclastics, rhyolite, felsic intrusions qtz & feld	
		Obatogamau Fm.	mafic volcanics, gabbro	
	Roy Group (1st cycle)	Chrissie Fm	Upper membre: felsic volcanics	
			Lower member: mafic volcanics	
	Unconformity			
	Basement Gneisses			

(Compiled from François Leclerc)

2.2 Mineral Deposits and Historical Occurrences

There are no mineral deposits defined on the property to date however there are several alteration zones and gold showings within and peripheral to the property. A brief description of the historical showings is given below.

2.3.1 Keller Showing

The Keller prospect located at UTM Coordinates 471636mE / 5540497mN, Zone 18, NAD83 has been worked from time to time since its discovery in 1936. It consists of a north-northeast striking quartz vein with visible gold crosscutting pillowed basalt. Grab samples collected by JL Hendricks in 1953 returned values ranging from 0.13 to 0.69 Oz/t Au. Follow-up sampling by other companies repeated these results however they remain somewhat erratic due to the visible gold nature of the vein or nugget effect.

Although historical work focused on the quartz vein the author believes that the unit mapped as mafic to felsic tuff to the south of the showing immediately east of Keller Lake is actually a strongly foliated and moderately altered (carbonated) basalt intruded by felsic dikes. This assertion is based on four small undocumented trenches excavated by the prospectors and visited by the author as part of a brief property wide visit at the start of the 2013 exploration program. The foliation within this structure runs east-west and is sub vertical. Reinterpretation of the historical work has highlighted the significance of this major east-west structure. Sampling by the prospectors returned anomalous gold values in both the shear zone and felsic dikes. The fertile nature and size (from three to four hundred meters wide) of the Gêttard shear zone certainly attests to its significance. See Figure 6 and 7 below. A parallel structure 450 metres to the north referred to as the Guêttard North shear zone is approximately 5 metres wide with a strong east-west foliation and strongly ankeritized with week quartz veining. See Figure 7 below. It also returned anomalous gold values similar to the main Guêttard shear zone however assays from grab samples in trench Tr-46 returned values up to 25.3 g/t Au. The Gêttard structures should be mapped and sampled along strike to the east and west as they have all the ingredients to host significant gold mineralization.

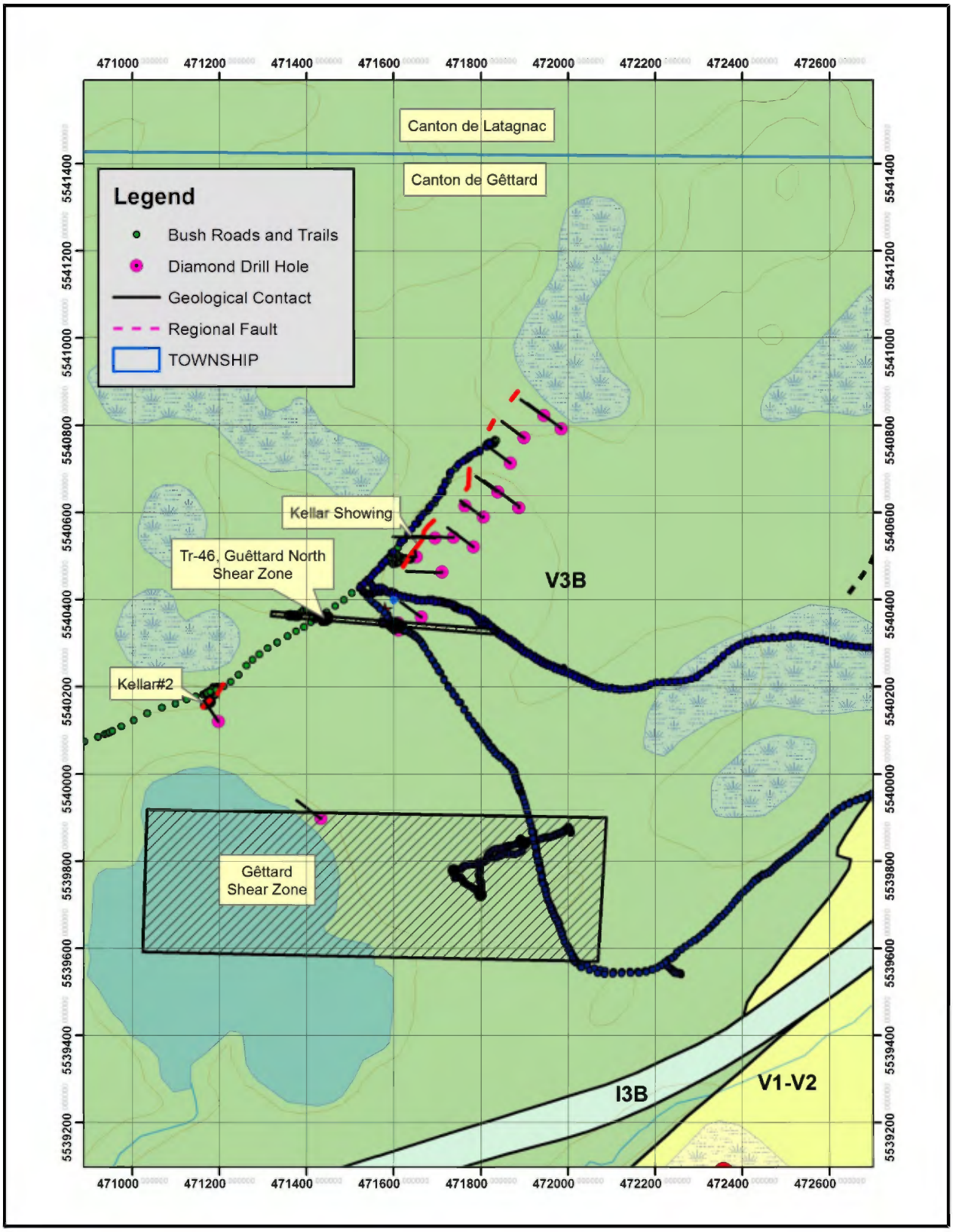

Figure 6: Kellar Lake Showing and Guêttard Shear Zone

Figure 7: Photo of Tr-46 or Guêttard Nord Shear Zone

2.3.2 Grizzly Showing

The Grizzly showing located at UTM coordinates 476890E/ 5536050N (NAD 83) was trenched in 2006 by Queenston Mining. See Figure 8 below. The showing was discovered a few hundred meters North of the E-W flowing Daladier Creek where a carbonatized and mineralized (Py-AsPy) outcrop with anomalous gold values were discovered by prospector Marc Bouchard, during a reconnaissance prospecting exercise along a new logging road in June of 2006. A total of 54 grab and 353 channel samples were collected by Queenston.

The best gold values obtained from the sampling program returned up to 5.1 g/t Au, and was closely associated with the carbonatized gabbroic margins of the feldspar porphyry (FP) dike.

The FP dike itself returned mostly anomalous values except for 3 gold values higher than 1.0 g/t and up to 3.21 g/t Au. The values from the FP dike appear to be erratic, but generally anomalous. See Figure 9 pictures of the feldspar porphyry dike below.

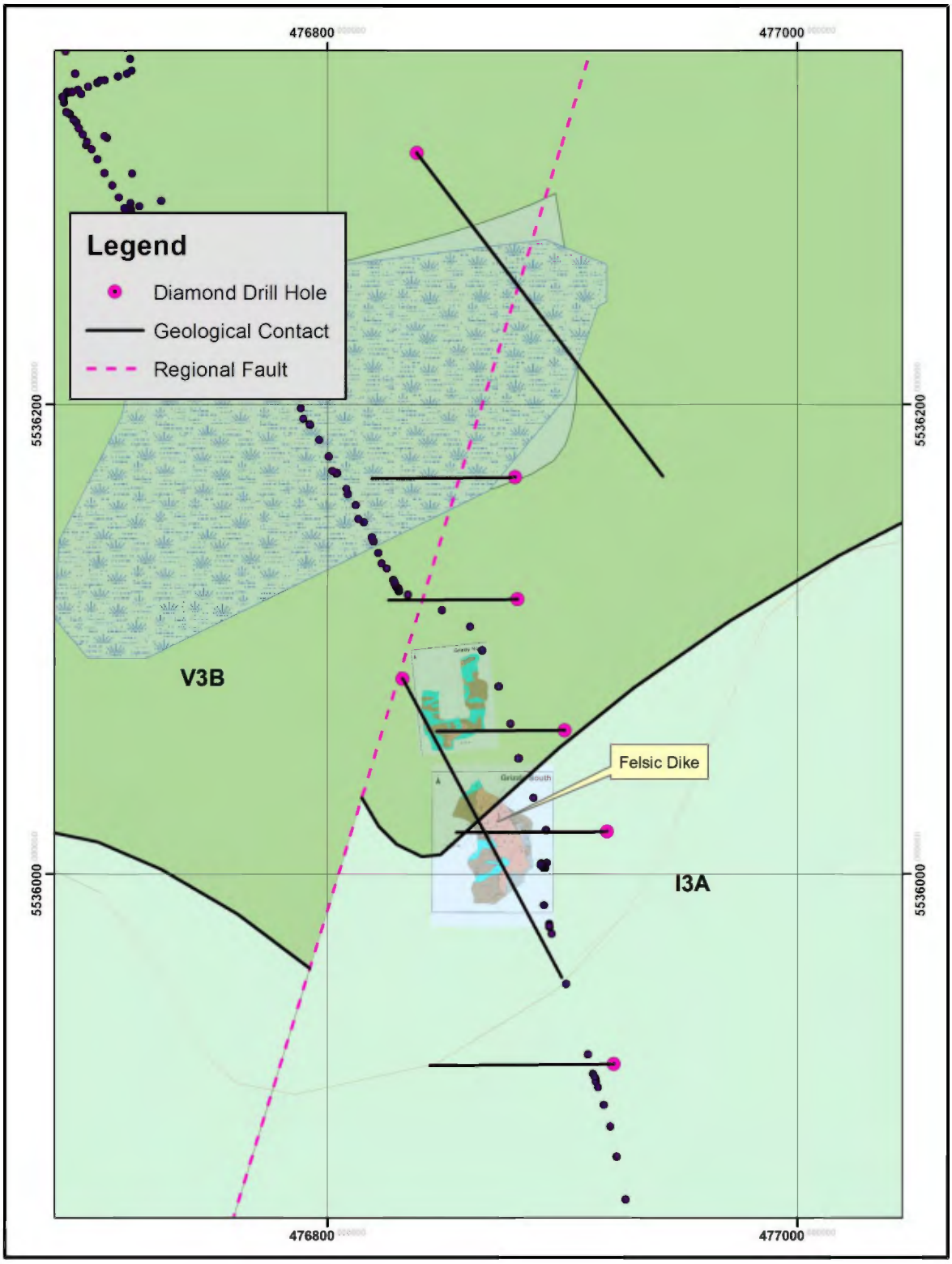

Figure 8: Grizzly Showing

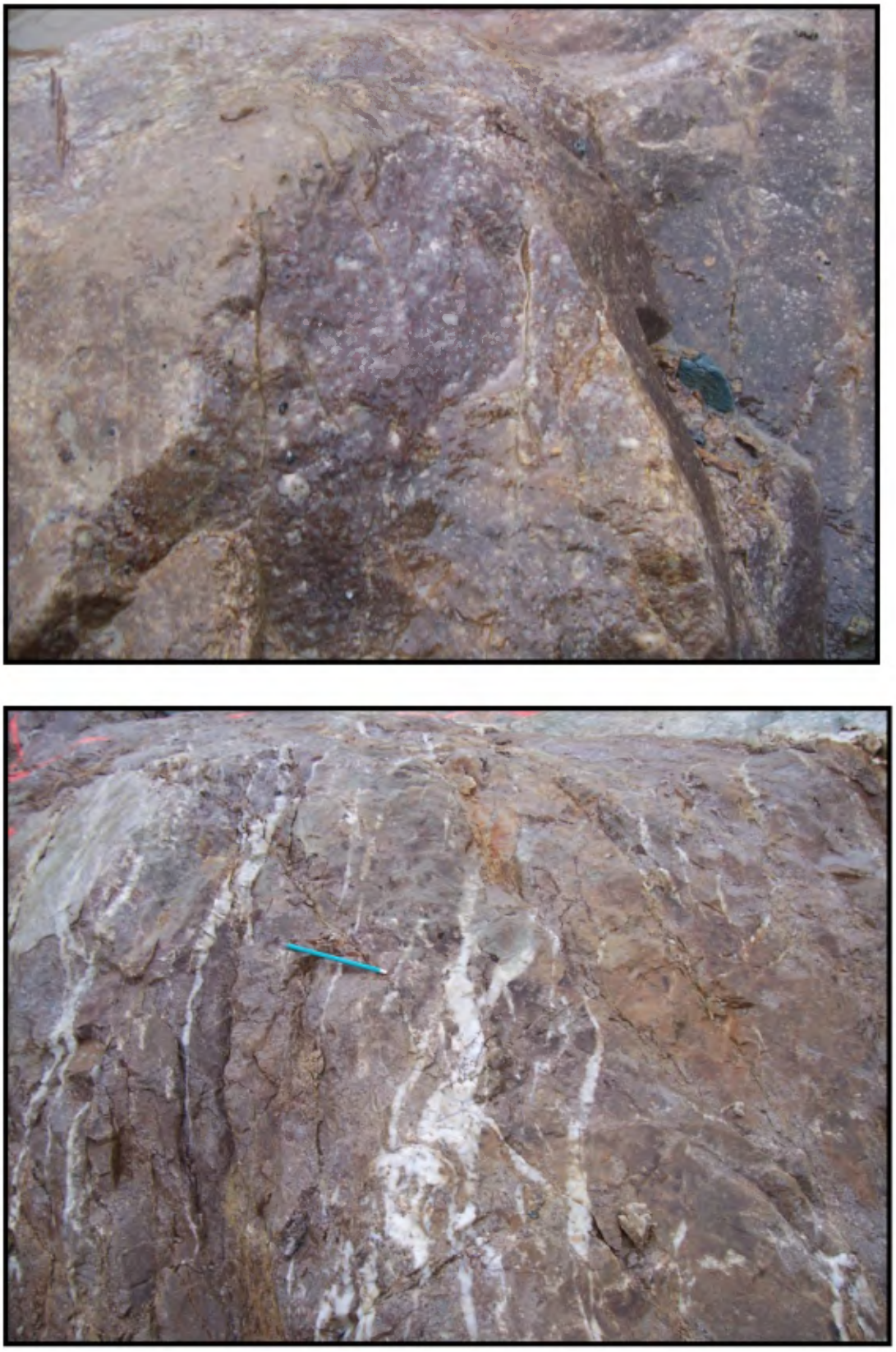

Figure 9: Photos of Feldspar Porphyry Dike in Grizzly Trench

2.3.3 Queenimich Showing

The Queenimich showing is located at UTM coordinates 476750E/5537005N, Zone 18, NAD83. It is characterized by a strongly altered (sericitized, and ankeritized) zone, that is mineralized with disseminated arsenopyrite at the margins of a two, meter wide, felsic dikes. See Figure 10 and 11 below.

The dikes are oriented at 235-240° and dip at -45 to -50°. These dikes intrude a strongly sheared and carbonatized pillowed basalt sequence. The carbonatization, shearing and mineralization are mostly confined to the immediate margins of the felsic dikes.

A total of 20 grab and 91 channel samples were collected from the Queenimich showing. The best gold value 1.65 g/t Au, comes from a grab sample comprising 20% AsPy mineralization within the carbonatized and sheared margin of the southernmost dike. No further work is recommended on this showing however finding extensions of this structure to the northeast and southwest may return results of interest.

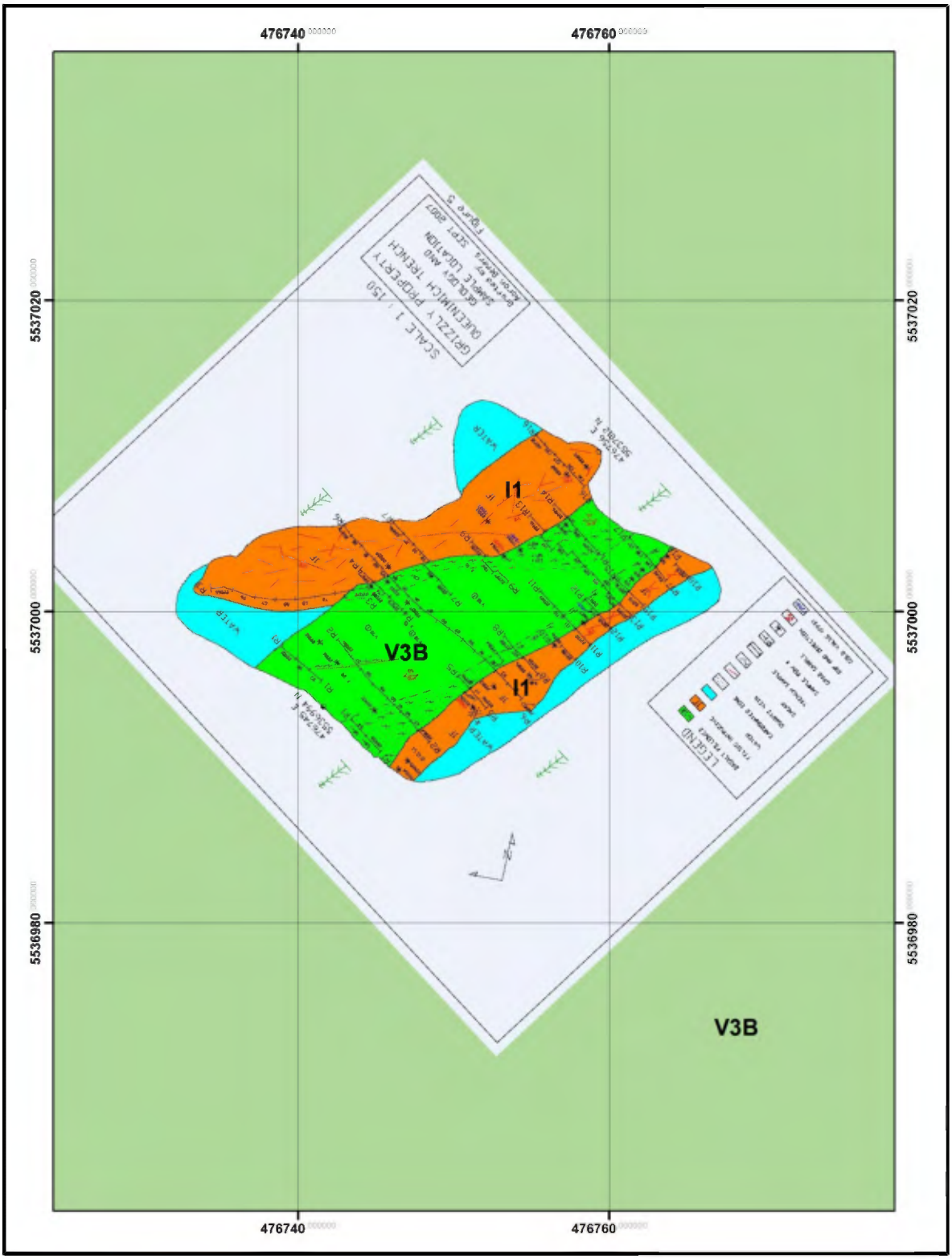

Figure 10: Queenimich Showing

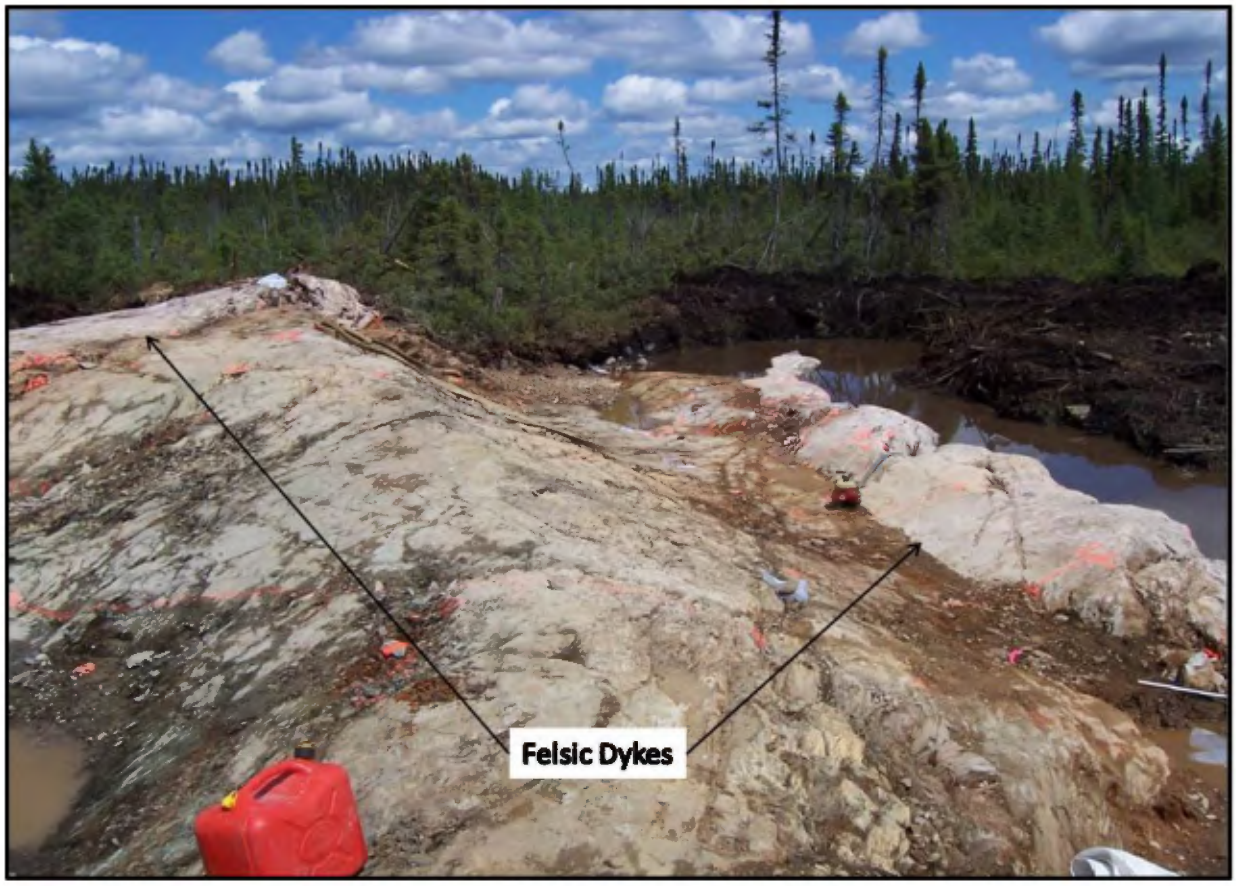

Figure 11: Photo of Queenimich Sowing Hghlighting Felsic Dikes

2.3.4 Gladstone Showing

The Gladstone showing at UTM 473580E / 5535160N, Zone 18, NAD83 was discovered by Queenston in 2006 while visiting the property with the resident geologist from Chibougamau when a vein was noticed outcropping on the edge of a lumber access road. A grab samples returned significant results up to 11.9 g/t gold, which prompted Queenston to trench, channel sample and drill this occurrence.

The Gladstone trench uncovered a 10 to 20 centimeter quartz-ankerite-tourmaline vein containing 5% disseminated pyrite and arsenopyrite crosscutting medium grained, leucoxenitic gabbro of the Daladier Gabbro Sill. It is strongly ankeritized with fuschite and disseminated pyrite and minor arsenopyrite mineralization. The alteration envelope is 1 to 5 meters wide

centered on the quartz-tourmaline vein which was exposed over a length of 20 meters. See Figures 12 and 13 below.

A total of 84 rock samples, 22 grab and 62 channel samples were collected with the more interesting results ranging from 1.02 g/t to 11.9 g/t Au. The best gold values were obtained from the mineralized margins of quartz-tourmaline veins.

Two diamond drill holes, collared 50 meters apart, were drilled under and to the north-northeast of the Gladstone showing intersected at least 3 parallel, 2-5 meter ankeritic, fuchsitic, and pyritized structures that returned anomalous gold values. No further work is recommended on this showing however prospecting along the north-northeast and south-southwest projection of this structure is warranted.

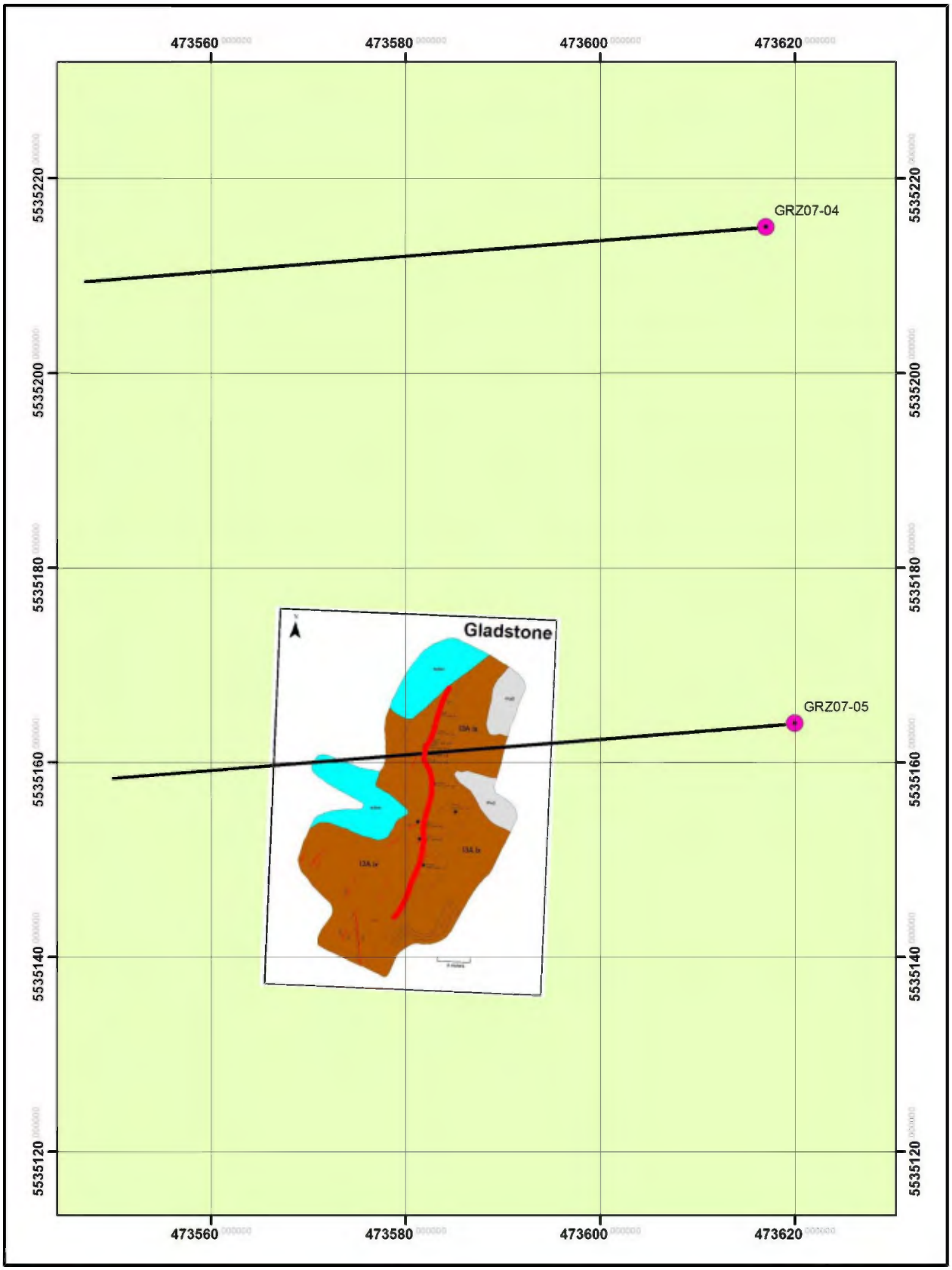

Figure 12: Gladstone Showing

Figure 13: Photo of Quartz-Ankerite-Tourmaline Vein, 10-20 cm wide oriented 015/-45 degrees

2.3.6 The Zee Gold Showing

The Zee showing is located at UTM 476024mE / 5532571mN, Zone 18, NAD83 on the north edge of the Chibougamau River. It was found by a Minnova geologist in 1988 while mapping and prospecting. In 1987 Minnova drilled four holes in the area, three tested Induced Polarization anomalies which turned out to be graphitic horizons and one hole tested a strongly sheared, green carbonate rock. This hole intersected a major structure that is not well documented. No holes tested The Zee showing. See Figure 14 below.

The outcrop where the grab sample was collected is described as a strongly altered, ankeritized, sericitised and chloritized rock with smoky quartz veins. Mineralization contains up to 5% arsenopyrite and returned a gold value of 1.36 g/t.

The Zee showing should be mapped in detail and tested by drilling however the area is covered by thick overburden and few outcrops occur based on Minnova's mapping. Minnova reported that the zone did not respond to their Induced Poralization survey. Therefore drilling may be the only option to determine the nature or size of this showing and to trace the zone along strike.

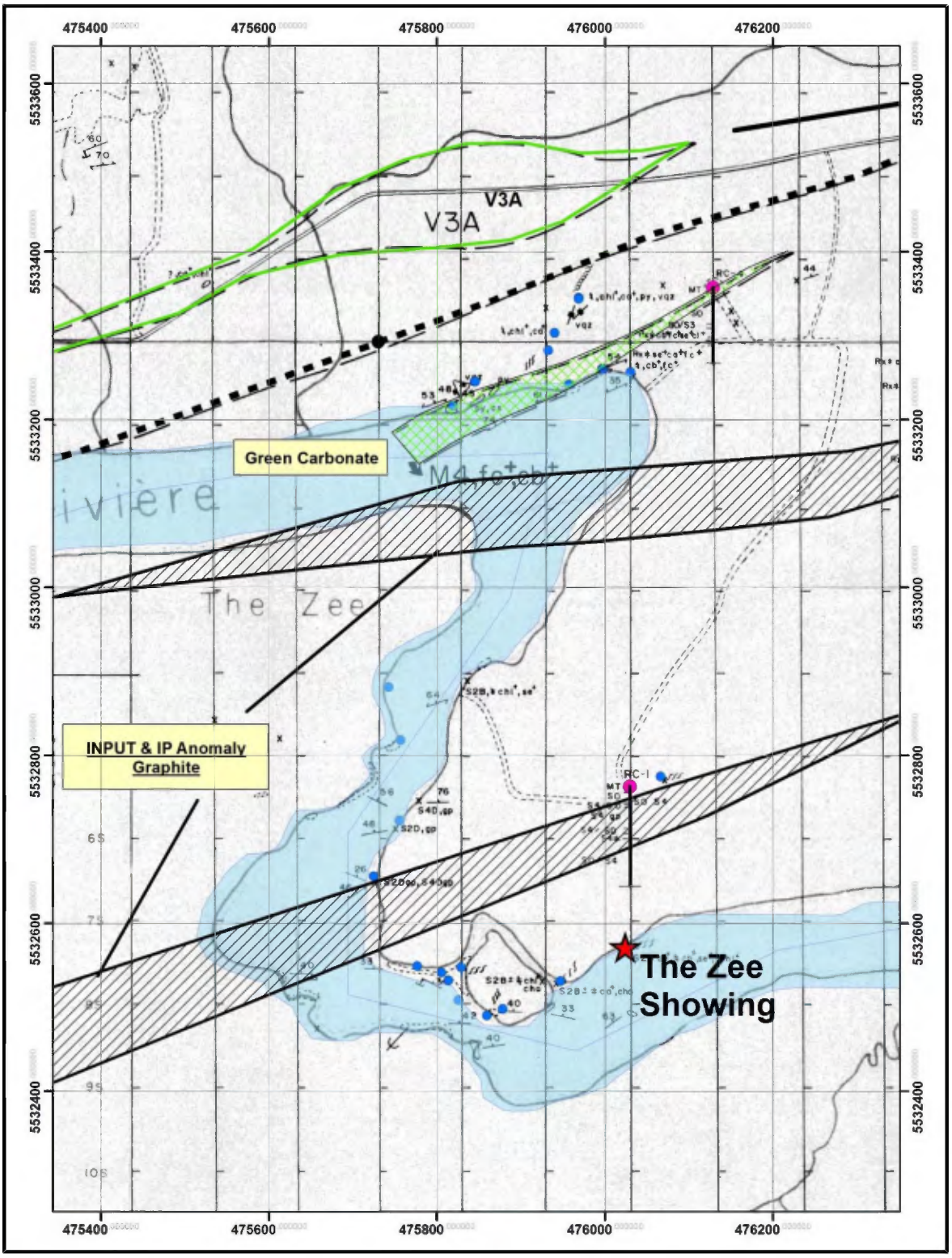

Figure 14: The Zee Showing

3.0 DETAILED GEOLOGY – PROPERTY GEOLOGY

The Property is underlain by rocks of Archean age of the Obatogamo, Blondeau / Gilman, and Pichamobi volcanics and La Trève and Daubrée sedimentary formations. Two gabbro sills intrude the formations above, both trend northeast-southwest. The southern gabbro sill is referred to as the Daladier sill.

The Daladier sill a kilometric long mafic intrusion hundreds of meters thick located at the interface between the conglomeratic rocks of the La Trève conglomerates to the south, and the volcanic dominated sequence of the Gilman formation to the North. See Figure 15 below. The La Trève formation is a sedimentary sequence that is typically dominated by 80% polymictic conglomerate intercalated with conglomeratic sandstone and meter thick sandstone lenses. A trachitic or Basaltic flow is found near the contact between the La Trève and Daubrée formations.

The rocks of the Gilman formation are dominated by mafic volcanic and related assemblages that are typically composed of basaltic and gabbroic rocks of 10's to 100's of meters in thickness. The Gilman stratigraphy is also characterized by volcano-sedimentary interflow tuffs, argillites and other related rocks.

The regional stratigraphy is intruded by 2 major felsic (granite-granodiorite) intrusions (Guêttard and De La moraine stock. An important regional syenitic intrusion (Stock de Saussure) intrudes the Daubré sedimentary sequence 15 km to the SW. Many dikes of felsic composition cut the regional stratigraphy.

Two major regional faults are recognized in the area, the most prominent of which is the regional Lamark fault southeast of the property. This represents a major sub-vertical structure oriented NE-SW which separates the sedimentary Daubré Formation to the north, from the Waconichi Formation to the south (a sequence of felsic to intermediate tuffaceous and related volcano-clastic rocks).

The second structure, the Dussault fault, is oriented ENE-WSW and runs immediately south of the property. This regional fault dips north and runs partly along the contact between the La Trève Conglomerates and Daubrée arenites and siltstones.

The regional stratigraphy is oriented ENE, paralleling the main regional S2 schistosity.

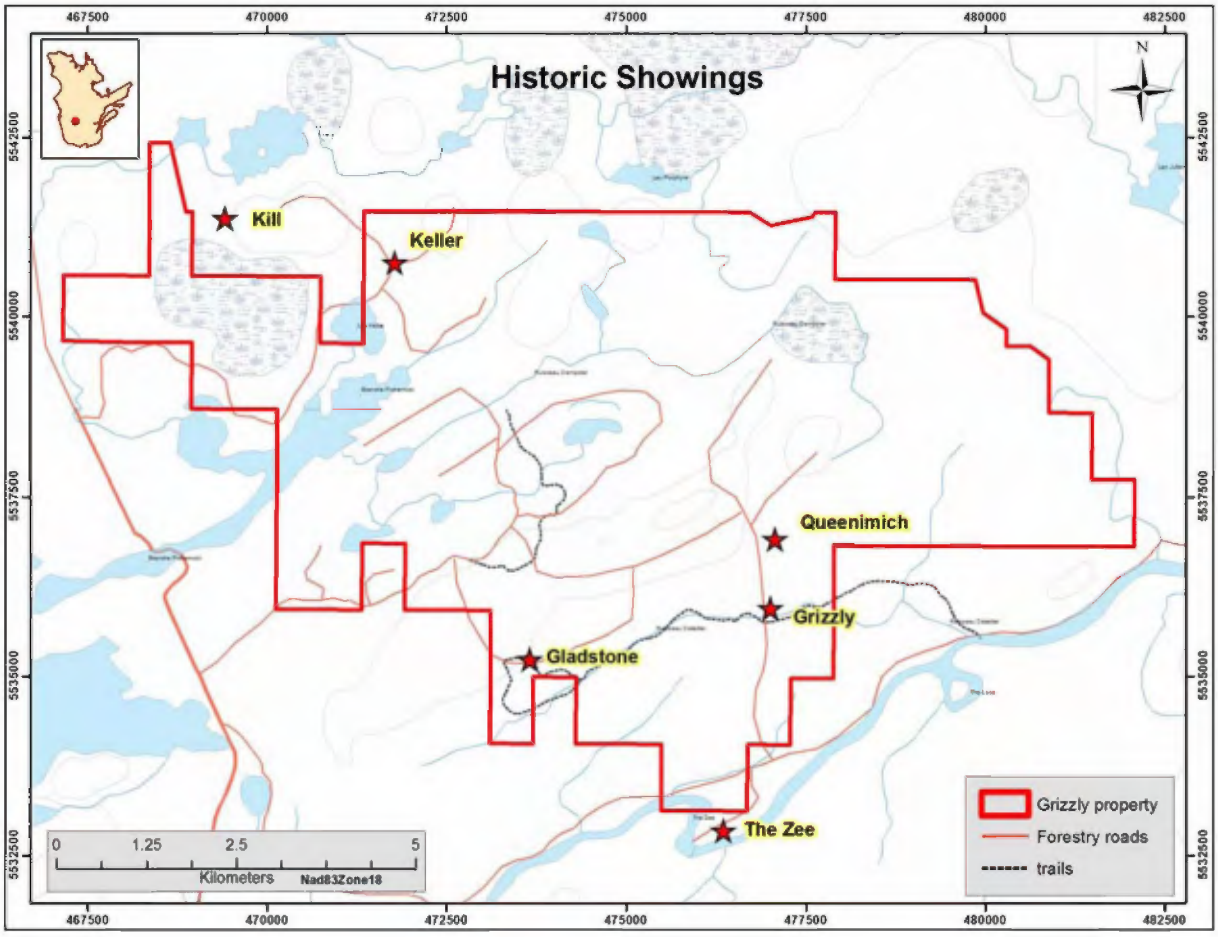

Figure 15: Historical Showings

3.1 Lithology

3.1.1 Basalt (V3B)

Basalt is typically described as greenish-grey, aphanitic to fine grained, mostly massive to pillowed, with local flow top breccias. Alteration consists of moderate chloritization with minor associated epidote alteration. They are generally non to rarely weakly magnetic with or without metre wide interflow sediments (argillite, graphitic argillite and/or siltstone). A single pillowed basalt outcrop at the north end of the property was noted to have a variolitic texture. See Figure 16 below.

A unique medium to dark green fine grain basalt or trachytic unit occurs within the sediments near the contact between the conglomerates (S3B) to the north and the finer grained sediments (S2B) to the south. The 50 to 100 metre wide unit is massive with a weak agglomerate texture locally that trends at 075°. This unit is not in the SIGEOM database.

Figure 16: Variolitic Pillowed Basalt

3.1.2 Gabbro (I3A)

Dark greenish-grey, fine to medium grained, equigranular, massive, weakly to nom magnetic and moderately porphyritic unit with 5-15% mm sized actinolite altered pyroxene phenocrysts occur as sills within the mafic volcanics. These rocks are interpreted as massive volcanic flows that are co-magmatic shallow sill like structures. Most of these gabbro units are characterized by a meso to melanocratic appearance with a salt and pepper texture imparted by 10 to 30% white feldspars crystals recognized on weathered outcrops. The gabbro's usually host a few

quartz-carbonate veins. Gabbro sill contacts with the mafic volcanic host rocks are often gradational and poorly defined.

The intrusive type gabbro units within the property are medium to coarse grained, massive, melanocratic dark green to black and vary from non to strongly magnetic. These gabbro units are intrusive differentiated sills varying from a mesocratic gabbro grading to more mafic units that have a peridotitic affinity. Two sills run through the property, the southern sill known as the Daladier gabbro sill hosts the Gladstone occurrence. See Figure 17 below, a photo of a coarse phase of the Daladier Sill. The northern sill has not been named in the SIGEOM database however it has a similar appearance to the Daladier Sill.

Figure 17: Daladier Coarse Grain Gabbro

3.1.3 Intermediate Tuff, Lapilli Tuff to blocky Tuff (TU, TX, TL2, TY2)

These felsic rocks occur as a northeast to southwest belt in the northwest part of the property. The felsic lapilli to blocky tuff unit consist of a package of interlayered / bedded tuff, crystal tuff,

lapilli tuff and blocky tuff with variable amounts of sediments such as siltstone, argillite and graphitic argillite. Unaltered, the unit has a light to medium greenish-gray colour with the fin grain bands having a dark grey to black colour. The coarser pyroclastic units are characterized by a high proportion of felsic clasts. A massive phase with flow banding occurs in the central part of the Pichamobi formation. Where outcrops were examined, the surface was heavily fractured and broke into centimetre size lozenges.

3.1.4 Argillite (S6)

Argillites occur within the Tuff to blocky tuff unit and within the fin grain sediments of the Daubrée formation where they form discrete beds which vary from metre to decametre in thickness. Argillites are very fine grained and appear as banded, bedded and laminated sedimentary rocks with alternating mm-cm wide, medium and dark gray beds hosting fracture controlled syn-sedimentary pyrite. Short intervals of interflow argillite are also inferred between mafic volcanic rock packages demarcating the limit between different mafic volcanic episodes which responded well to the INPUT geophysical survey. Millimetre to centimetre size nodular pyrite is also observed locally within graphite rich units. Primary bedding features are usually visible within argillites. No significant magnetism is associated with this unit.

3.1.5 Siltstone (S6A)

Siltstones are commonly interlayered with tuffaceous rocks. Unaltered varieties are light gray with moderate to poorly developed bedding. Siltstones are typically fine grained, poorly banded and locally interlayered with narrow intervals of argillite. The mineralization content of siltstones is generally weak and consists of fracture and syn-sedimentary bedding controlled pyrite. Siltstone units are often interlayered with lapilli and crystal tuffs in variable proportions, with the contacts between either rock type not always discernible.

3.1.6 Graphitic Argillite (S6G)

Observed in the same environment as argillites, graphitic argillites host 10% and greater quantities of graphite. The graphite frequently accounts for many of the airborne INPUT or ground induced polarization (IP) anomalies defined by geophysical survey methods. A good example of this is the belt of INPUT anomalies closely related to the Pichamobi formation where Noranda drilled several holes and confirmed the graphitic nature of these anomalies which locally contained massive pyrite and the three anomalies tested by Minnova within the Daubrée fine grained sediments

3.2 Property Stratigraphy

The stratigraphic column below includes only rock units identified on or proximal to the property and conforms to the poster presented by François Leclerc at the 2013 Québec Mine November conference.

Table 3: Stratigraphy of the Grizzly Property and proximal area

PLEISTOCENE		Glacial till, sand and gravel		
Unconformity				
PROTEROZOIC		Diabase dikes, dike de Geneviève, essain de Senneterre		
Unconformity				
ARCHEAN	**Opémisca Group**	Haüy Fm	conglomerate, wacke, mudrocks, k-andesites	
		Stella Fm	conglomerate, wacke, mudrocks	
		La Trêve Fm	conglomerate, sandstone, siltstone, wacke, basalt	
		Daubrée Fm	wacke, arkose, siltstone, felsic volcaniclastics	
	Unconformity			
	Roy Group (2nd cycle)	Blondeau Fm.	intermediate to felsic volcaniclastics, rhyolite, felsic intrusions qtz & feld	Granitic Plutons and Gabbro Sills
		Bruneau Fm.	mafic volcanics, basalts and comagmatic gabbro sills	
	Roy Group (1st cycle)	Obatogamau Fm	felsic volcanics rhyolite porphyry, volcaniclastics, Pichamobi membre	
			Lower member: mafic volcanics, basalts and comagmatic gabbro sills and basaltic andesites	

3.3 Structural Geology

Mapping and structural studies by Dimroth *et al.* (1984) and Daigneault *et al.* (1990) indicate four distinct structural events of importance in the Matagami-Chibougamau Greenstone Belt: 1) synvolcanic structures; 2) large east-west regional folds and reverse ductile faults formed during the Kenoran Orogeny; 3) northeast trending sinistral faults of probable Late Archean age reactivated during the Early Proterozoic, and 4) north-northeast trending Grenvillian faults.

Three of these events are Archean, the fourth is Grenvillian in age (1097 Ma) and is limited to a 2-5 km wide zone along the eastern margin of the Matagami-Chibougamau Greenstone Belt near the Grenville Front (Daigneault *et al.*, 1990).

The three Archean events are considered to be phases of deformation associated with the Kenoran Orogeny at around 2700-2695 Ma, corresponding to the Shebandowan event of the orogeny. In the Chibougamau area, the Kenoran Orogeny accounts for large folds and the regional schistosity which was comptemporaneous with, or slightly younger than the emplacement of the Chibougamau Pluton dated at 2718 ±2 Ma. The three phases of Archean deformation includes an initial phase (D_1) responsible for the formation of local north-south folds without schistosity, a second phase of regional deformation (D_2), and a minor late phase of deformation (D_3). The regional D_2 deformation is the most prevalent and consists of two distinct events: folding and ductile faulting, either of which are seen to have evolved progressively over time.

The Chibougamau district is transected by four major fault systems trending northeast, east, northwest and north-northeast. Some faults may have been synvolcanic and controlled by the location of volcanic eruptive centres which were subsequently reactivated over time. The most evident faults strike northeast to north-northeast and are exemplified regionally by the Mistassini Lake fault, the Taché Lake fault, the Doré Lake faults and the Gwillim Lake fault (Figure 4 above).

East trending, roughly conformable faults are less evident in the district. From north to south these include: the Waconichi Syncline, the Waconichi Anticline / Waconichi Tectonic Zone (WTZ); the Chibougamau Syncline; the Chibougamau Anticline; the Chapais Syncline; the La Dauversiere Anticline; and the Druillettes Syncline.

The northernmost structure, the Waconichi Syncline is both a structural and sedimentary basin containing rocks of the Opemisca Group which are bordered on either side by major east-west longitudinal faults. Another example of an east-west fault is the Kapunapotagen fault which roughly parallels units in the Chapais Syncline (Figure 4). This fault has been traced for a distance of 80 km, but the nature of the fault and its exact sense of movement are poorly understood. Over much of its length, the fault separates south facing sediments of the Opemisca Group and north facing volcanics of the Roy Group (Daigneault *et al.,* 1990). Similar relationships have been identified by Daigneault and Allard (1983) along the Faribault Fault where south facing sediments of the Bordeleau Formation are in contact with north facing volcaniclastic units and gabbro sills of the Waconichi Formation (Figure 4).

3.4 Metamorphism

Rocks underlying the Grizzly property are of the lower green schist facies grade typical of the Abitibi greenstone belt.

3.5 Alteration

Alteration zones generally consist of ankeritisation, sericitisation and minor silicification in proximity to structures and quartz veining.

3.6 Economic Geology

There are no deposits within the Grizzly Property however the geology and structural context of over which the property lies with its historical showings make it an ideal target for prospecting.

4.0 EXPLORATION SURVEYS

4.1 - 2013 Mapping and Prospecting Program

The 2013 exploration program consisted in a planned three 10 day field periods to map and prospect. The field terms were separated by a break to allow for assay results to return from the laboratory such that some follow-up work could be done on any new occurrence found. This would provide an early assessment of the significance of any new showing. The objective was to cover as much of the property as possible on a reconnaissance level to make new discoveries. Two field periods were completed however due to budget constraints the third term to document historical showings was not completed. Figure 18 below shows the area covered by the program. This includes Hydro Québec's power line service road, all weather lumber access roads, winter lumber access roads, ATV trails and ground traverses completed during the 20 day program by the two mapping and prospecting teams. A brief description of the new significant alteration zones and showings identified during this program is given below.

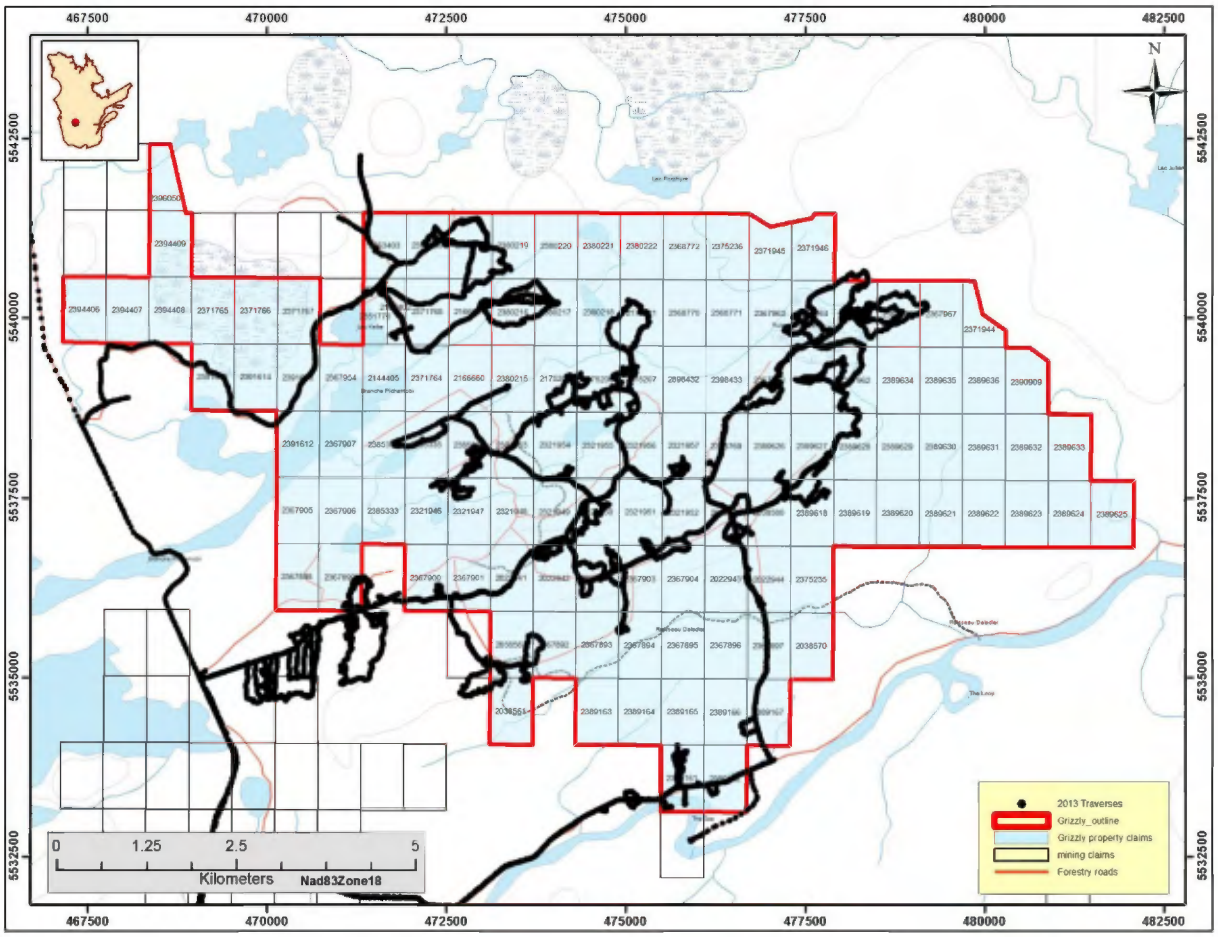

Figure 18: Roads, Trails and Foot Traverses

4.1.1 Grêlon

The Grêlon Showing located at UTM 474915mE / 5535684mN, Zone 18, NAD83 is a zone of strongly carbonated gabbro noticed on the south side of a winter lumber access road. The alteration zone lies in the ditch of the road rendering sampling very difficult. A total of eight samples were collected over a 10 metre length of the ditch within the alteration zone including some of the veins. Table 4 below lists the gold assay results returned.

Table 4: Grêlon Showing List of Grab Samples

Number	Rock Unit	Description	Alteration	Mineralization	Assay ppb Au
P447366	QFP alt I3A?	ms	ms Cb, qtz, Fuchsite	tr-1% py & aspy	2.5
P447367		ms, aph	ms Cb, qtz, Fuchsite	tr-1% py &	29

				aspy	
P447368		ms, aph	ms Cb, qtz, Fuchsite	tr-1% py & aspy	13
P447369		ms aph	ms Cb, qtz, Fuchsite	tr-1% py & aspy	88
P447370	Qtz	white	qtz,	tr py	2.5
P447371	I3A		ms Cb, qtz, Fuchsite	tr-1% py & aspy	79
P447372	I3A		ms Ank, Ca, qtz, Fuchsite	tr-1% py & aspy	2.5
P447373	I3A		ms Ank, Ca, qtz, Fuchsite	tr-1% py & aspy	97

Although only three assay results are anomalous (97, 88 & 79 ppb Au) these are considered significant as the full width of the zone is not exposed for sampling. Mechanical stripping is recommended to expose and sample a complete section across this fertile alteration zone. The preliminary assays from this zone confirm the gold potential of this area. Associated trace element Arsenic returned values over 1% indicating a close association of gold with arsenic.

The geological setting of the Grêlon showing is similar to Gladstone. It is located near the northern contact of the Daladier Gabbro sill however we could not determine whether the trend of the structure was similar to Gladstone. See Figure 19 below. A small trench should be excavated to expose the full extent of the zone to assess its potential. Several INPUT anomalies occur nearby which should also be investigated as the geophysical anomalies may be responding to the more mineralized parts of the alteration zone. The SIGEOM geology database used to generate the map below was edited to show the gabbro outcrops mapped while sampling the showing. The Daladier gabbro sill extends much further north as shown by the blue hatched area on the map below.

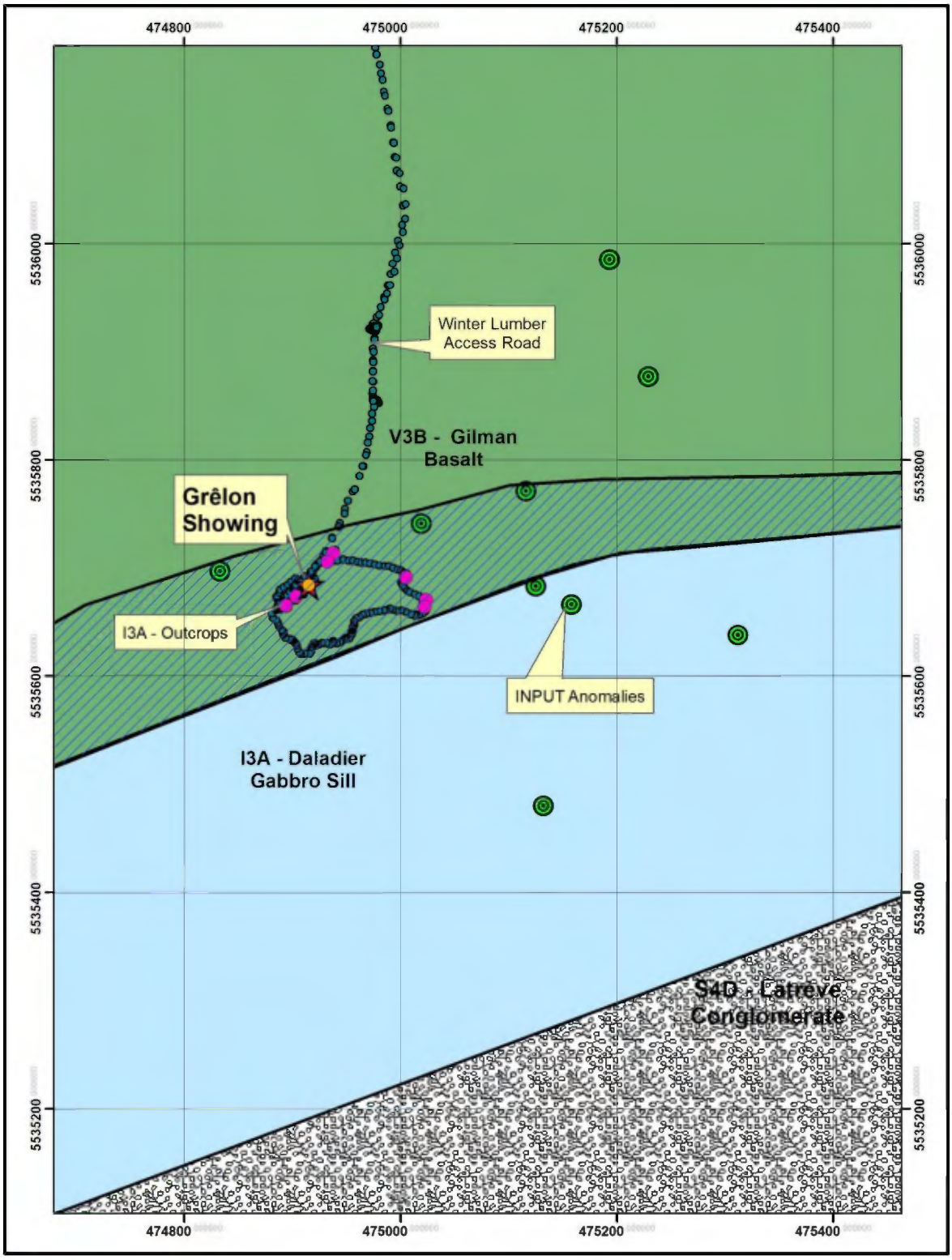

Figure 19: Grêlon Showing

4.1.2 Huitans

The Huitans alteration zone located at UTM 472272mE / 5536088mN, Zone 18, NAD83 is a zone of moderate to strong carbonate alteration mineralized with 1-2% pyrite and arsenopyrite. The alteration zone was sampled by a prospector and the author did not visit the site. The Huitans alteration zone is located within the northern gabbro sill in proximity of a northeast – southwest regional fault that runs through the middle of the gabbro as described in the SIGEOM database. See Figure 20 below.

A total of 14 samples were collected from the exposed part of the alteration zone which returned three weakly anomalous gold values. See table 5 below. A small trenching program to clear the site would be useful to determine if the alteration zone is associated with the northeast-southwest regional fault and sample the full extent of the structure/alteration zone.

Table 5: Huitans Showing List of Grab Samples

Sample Number	Rock Unit	Description	Alteration	Mineralization	Assay ppb Au
P447318	I3A	mod fol	stg Ank, sil, fuch	2% aspy	48
P447319	I3A	mod fol	stg Ank, sil, fuch	Tr-1% py, aspy	2.5
P447320	I3A	mod fol	stg Ank, sil, fuch	3% aspy	28
P447321	I3A	mod fol	stg Ank, sil, fuch	2% aspy, fg, diss	42
P447322	I3A	mod fol	stg Ank, sil, fuch	2% aspy + py	5
P447323	I3A	mod fol	stg Ank	1% aspy + py	2.5
P447324	I3A	mod fol	wk Ank, sil	Tr py	2.5
P447325	Qtz	Smoky quartz			2.5
P447326	I3A	wk - mod fol	wk Ank	Tr py	2.5
P447327		wk - mod fol	stg Ank, sil	py + cpy % qtz	21
P447328		wk - mod fol	qtz, stg Ank	Tr py	2.5
P447329	Qtz	wk - mod fol	qtz, stg Ank	2% aspy	48
P447330		wk - mod fol	stg Ank, sil	Tr py	26
P447331	Qtz?	wk - mod fol	stg Ank, sil	2% aspy	13

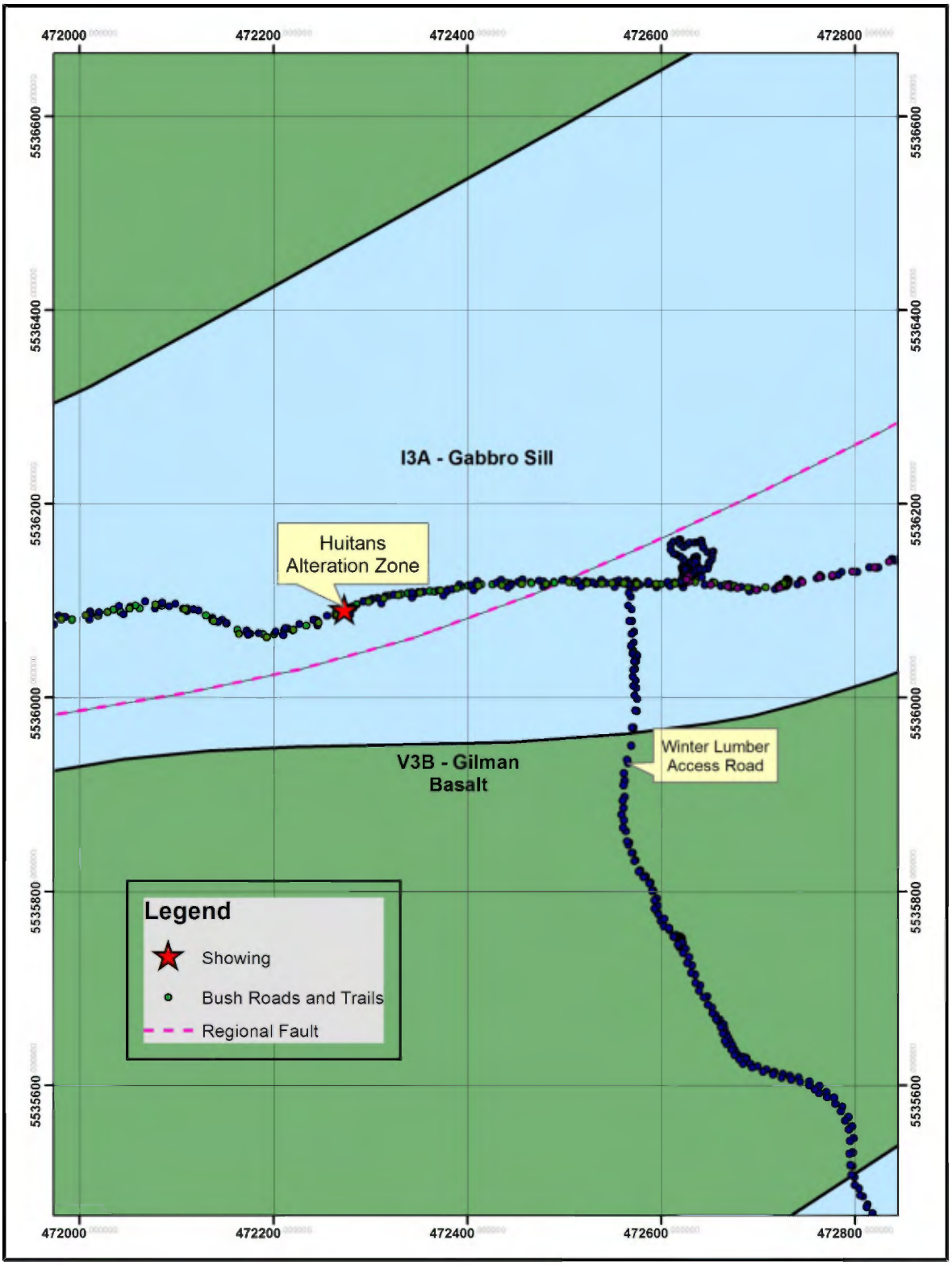

Figure 20: Huitans Showing

4.1.3 Moby Dick Alteration Zone

The Moby Dick structure located at UTM 478181mE / 5538729mN, Zone 18, NAD83 consists of three small outcrops on the edge of a trail. Hand stripping exposed an ankeritised and sericitised alteration zone with white quartz veins up to two metres wide where the country rock is brecciated, quartz flooded and weakly mineralized with trace very fine grain disseminated pyrite. A five centimetre quartz vein on the southern outcrop contained nodules of chalcopyrite which returned a value of 0.44% copper and 29 ppb gold. The full width of the zone is estimated to be over 70 metres wide. See Figures 21, 22 and 23 below.

A total of 15 grab samples were collected on two outcrops which returned only two weakly anomalous gold assays. See table 6 below. Due to the estimated size of the shear zone and limited area sampled to date it is recommended to trench and sample the full width of this newly identified alteration zone.

Table 6: Moby Dick Showing, List of Grab Samples

Sample Number	Rock Unit	Description	Alteration	Mineralization	Assay ppm Au
P447425	Qtz	5.0 cm qtz Vein	~10%, Ank	10% cpy nodules and diss fg py	0.029
P447426	V2J	Ank V2J some qtz V	mod Ank	1% diss py	0.0025
P447427	V2J	qtz flooding forming bx matrix	mod-stg Ank	Tr py	0.0025
P447428	V2J	bx, 40% qtz	stg Ank, Ser	1% py	0.0025
P447429	V2J	bx, 60% qtz	stg Ank, Ser	1% py	0.0025
P447430	V2J	bx, 20% qtz	stg Ank, Ser	1% py	0.0025
P447431	V2J	bx, 5% qtz	mod Ank	1% py	0.0025
P447432	V2J	bx, 60% qtz	mod Ank	1% py	0.0025
P447433	V2J	bx, 60% qtz	mod Ank	1% py	0.0025
P447434	V2J	bx, 10% tourm in qtz V, 60% qtz	stg Ank, tourm	1% py	0.0025
P447435	V2J	5% qtz	wk Ank along fractures	Tr py	0.0025
P447436	V2J	5% qtz	wk Ank along fractures	3% py	0.037
P447437	V2J		wk Ank along fractures	Tr py	0.009
P447438	V2J		wk Ank along fractures	Tr py	0.006
P447439	V2J		wk Ank along fractures	2% py	0.0025

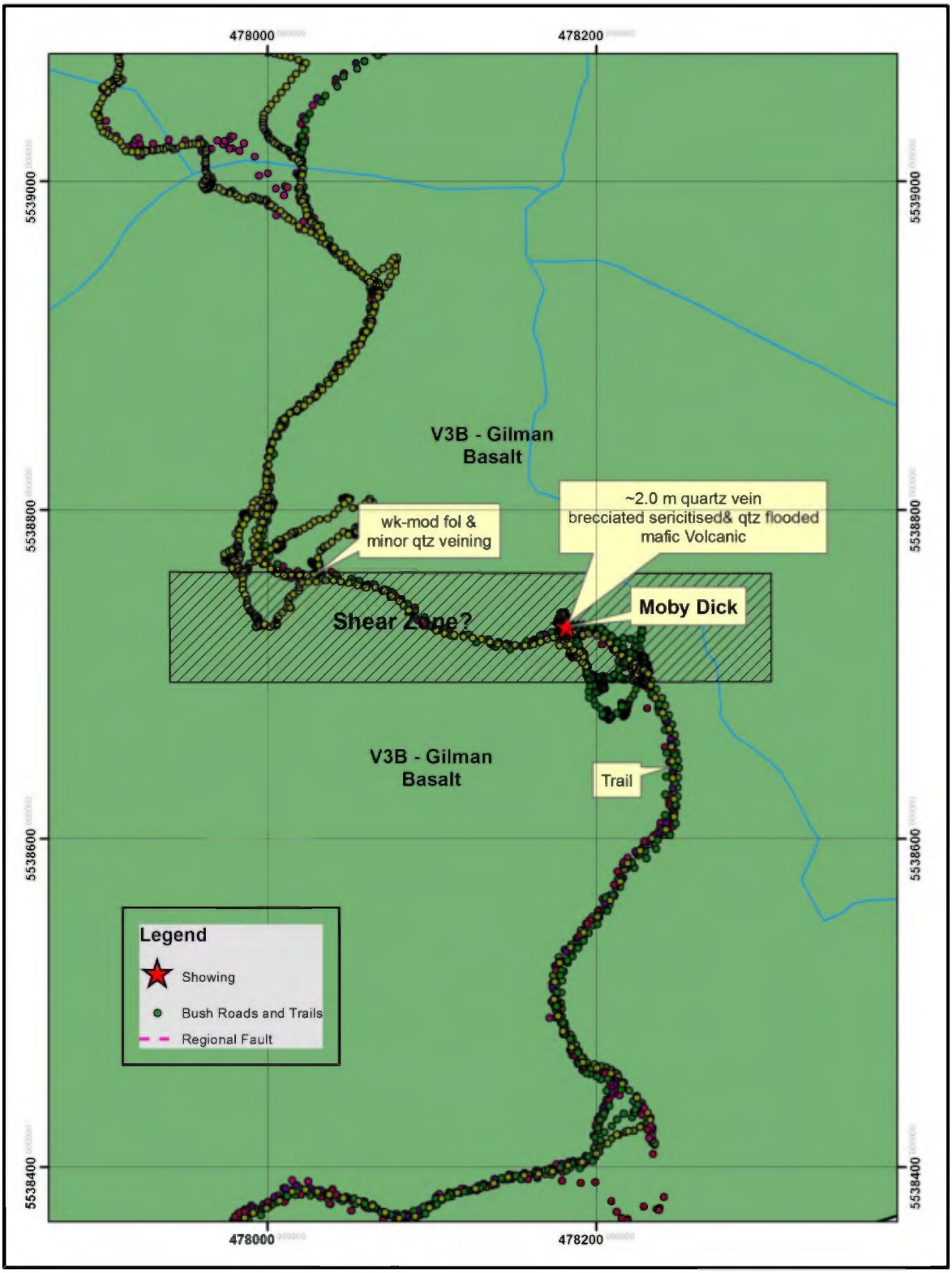

Figure 21: Moby Dick Showing

Figure 22: Moby Dick Showing

Figure 23: Moby Dick Showing, Chalcopyrrite & ~2.0 m quartz vein

4.1.4 Dussault Showing

The Dussault Showing was identified and sampled by a prospector during the program and not visited by a geologist. See Figure-24 below. Based on the description of the sample that was collected a new strongly mineralized zone containing up to ~10% very fine grain pyrite with anomalous gold was identified. To support this, a historical sample collated from a Minnova assessment work report returned 4.9 g/t gold from a small pebble of semi massive sulphide located 150 metres down ice. If the origin of the pebble is from the same zone then it would make this massive to semi massive sulphide zone a priority target for follow-up.

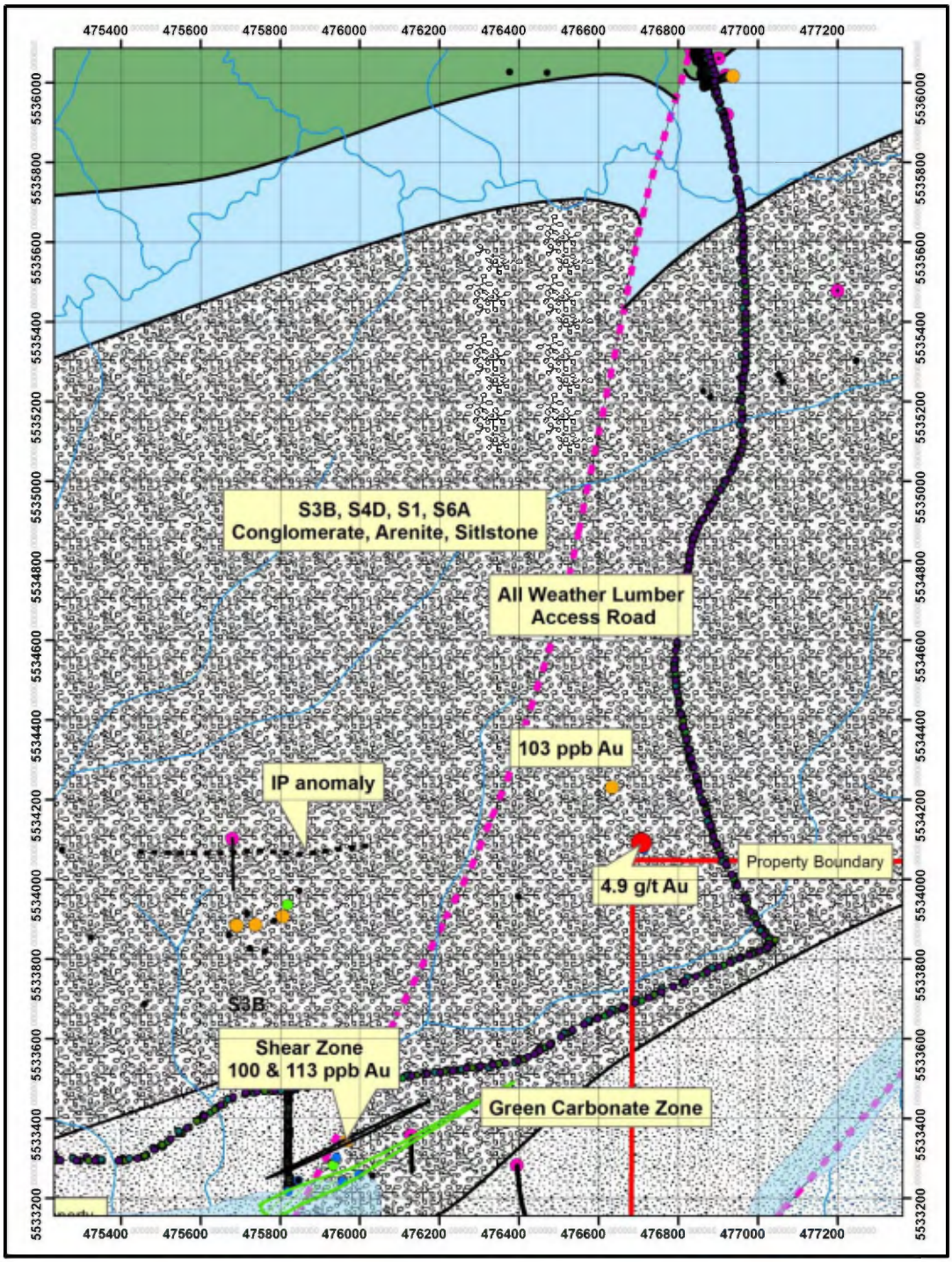

Figure 24: Dussault Showing

4.2 Geology

Geological observations were made along prospecting traverses however no attempt was made to edit the SIGEOM geological database at this time. The Québec MRN had a geological team mapping NTS map sheet 32G14 in 2013 and should be publishing their results at the mid November, 2013 Québec Mine conference. The new SIGEOM database should be purchased as a number of errors were noticed in formation names and the location of some of the geological contacts could be improved.

4.3 Geochemistry

No soil geochemical surveys were carried out during the 2013 exploration program however a litho geochemical sampling program was carried out by the prospectors. Rocks were submitted to ALS Laboratory for analyses for gold by fires assay and atomic absorbtion spectrometry method and trace elements by induced coupled plasma – mass spectrometry method. In addition a database of historical gold rock assay analyses was started to complement NSR's own rock sampling program. A total of 455 gold assays were compiled from assessment work reports and data acquired from the property optionors. However during the shortened field program only 248 samples have locations.

4.4 Geophysics

No geophysical surveys were carried out during the 2013 exploration program however a number of geophysical survey assessment work reports were consulted and several maps georeferenced to locate conductors where graphitic horizons trace out the local stratigraphy.

4.5 Drilling

No drilling was carried out during the 2013 exploration program however assessment work report maps were georeferrenced to position drill holes more accurately than the SIGEOM database. Although some effort was made to locate drill holes more precisely, no effort was made to enter drill holes descriptions into the Geotic logging software. Entering the historical data into a database should be an ongoing program to improve knowledge about the property and define targets for further exploration.

4.6 Resource / Reserve Estimates

The Grizzly property is a grass roots exploration project; there are no resources or reserves defined on the property.

5.0 ENVIRONMENTA STATEMENT

The Grizzly property is a relatively remote property that is readily accessible by a Hydro Québec power-line access road and a number of lumber access roads. A portion of the commercial timber has been harvested. The author is not aware of any environmental issues related to

previous commercial activity on the property. The 2013 exploration program was a low impact reconnaissance exploration program with no environmental issues.

6.0 RESULTS

NSR's rock sampling program was carried out during August, 2013. During this program a total of 84 rock samples were submitted for analyses. See Table 7 and Figure 25 below and **Appendix II and III** for the rock descriptions and Certificates of Analyses. The program identified several new alteration zones and combined with the geological mapping has highlighted two major shear zones, the Guêttard and Green Carbonate, and several second order or subsidiary shears, Guêttard Nord. The third order shears or northeast-southwest structures are generally narrow quartz filled shear vein such as the Keller showing and Gladstone occurrences with limited alteration envelop in contrast to the main shear zones above. The main and secondary shear zones have the potential to host significant mineralization and should be the target for further exploration.

It is recommended to acquire high resolution magnetic data over the property to better define structures of interest that have already been identified. This data would be used to target specific areas for mapping-prospecting and geochemistry or RC drilling. After completion of these programs the targets would be ready for either trenching in areas of thin overburden or core drilling.

Sample_No.	Sample_Type	Claim_Type	Claim_No.	Zone	East_83	North_83	NTS(50K)
P447301	Grab	CDC	2371769	18	472311	5541190	32J03
P447309	Grab	CDC	2367900	18	472243	5536134	32G14
P447310	Grab	CDC	2321956	18	475176	5537814	32G14
P447311	Grab	CDC	2385335	18	472329	5538327	32G14
P447312	Grab	CDC	2321952	18	476098	5537743	32G14
P447313	Grab	CDC	2368769	18	476313	5538092	32G14
P447314	Grab	CDC	2389166	18	476633	5534231	32G14
P447315	Grab	CDC	2389161	18	475761	5533819	32G14
P447316	Grab	CDC	2389161	18	475784	5533896	32G14
P447318	Grab	CDC	2367900	18	472273	5536091	32G14
P447319	Grab	CDC	2367900	18	472273	5536091	32G14
P447320	Grab	CDC	2367900	18	472273	5536091	32G14
P447321	Grab	CDC	2367900	18	472273	5536091	32G14
P447322	Grab	CDC	2367900	18	472273	5536091	32G14
P447323	Grab	CDC	2367900	18	472273	5536091	32G14
P447324	Grab	CDC	2367900	18	472273	5536091	32G14
P447325	Grab	CDC	2367900	18	472273	5536091	32G14
P447326	Grab	CDC	2367900	18	472273	5536091	32G14
P447327	Grab	CDC	2367900	18	472273	5536091	32G14
P447328	Grab	CDC	2367900	18	472273	5536091	32G14
P447329	Grab	CDC	2367900	18	472273	5536091	32G14
P447330	Grab	CDC	2367900	18	472273	5536091	32G14
P447331	Grab	CDC	2367900	18	472273	5536091	32G14
P447355	Grab	CDC	2367899	18	471179	5535992	32G14
P447358	Grab	CDC	2321957	18	475778	5537928	32G14
P447359	Grab	CDC	2321957	18	475778	5537928	32G14
P447360	Grab	CDC	2175205	18	474159	5538808	32J03
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Table 7: Sample vs. Claim distribution

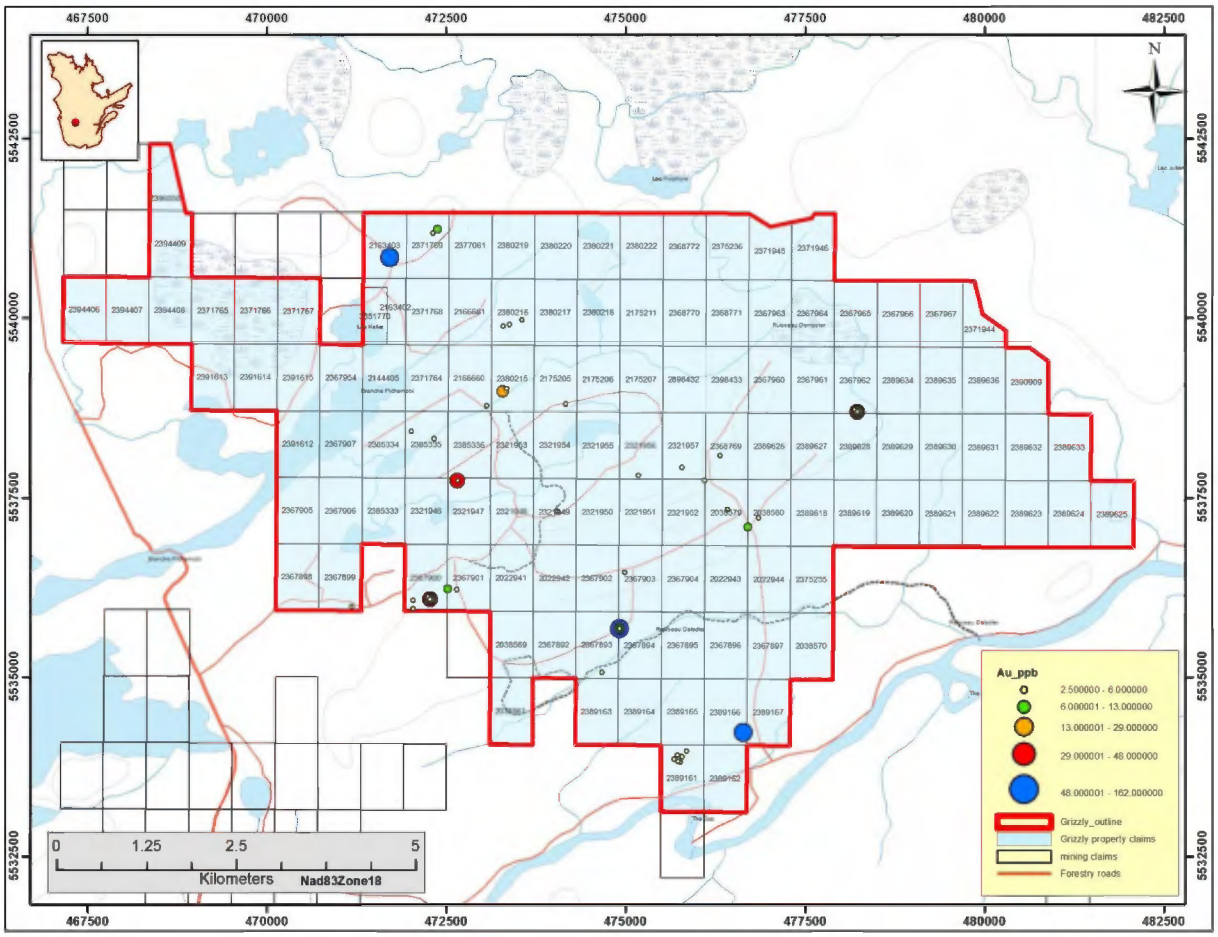

Figure 25: 2013 Gold Assays

7.0 CONCLUSIONS AND RECOMMENDATIONS

The 2013 prospecting and data compilation program was successful in documenting several new and historical fertile alteration zones. The geological mapping program confirmed that several undocumented first and second order shear zones occur within the property associated with alteration and mineralized zones. The limited time allocated to data compilation has identified assay results up to 25.3 g/t gold in some of these shear zones. The historical data compiled to date combined with the results of the current program has shown that all alteration zones identified to date contain at least anomalous gold values.

The Grizzly project would benefit greatly from a high resolution total field magnetic and horizontal gradiometer survey. This data would greatly support other exploration programs on the property in addition to defining specific geophysical targets. It would also greatly improve

the geological interpretation of the property by tracing out geological units that respond well to magnetics.

A reconnaissance geochemical survey over the property would help define the more favourable parts of the fertile structures identified to date. Parts of the property are also covered by a thick blanket of hummocky ground moraine and outwash sands. These areas would be suitable to RC drilling while areas with abundant outcrop could be sampled by a combination of excavator dug pits and hand dug pits.

The targets defined by the exploration programs described above (geological, geophysical and geochemical) could then be prioritized for drill testing.

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STATEMENT OF QUALIFICATIONS

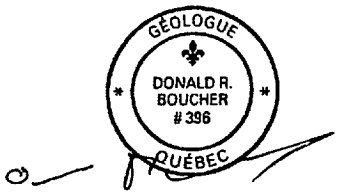
Donald R. Boucher

469 rang St François,

Lorraine, QC J7E 4H5

I, Donald R. Boucher, of the town of Lorraine, Province of Québec do hereby certify that:

1. I am a professional geologist residing at 469 rang St François, Lorraine, QC, J7E 4H5
2. I am a graduate of Brock University, Ontario with a combine Geology-Physics Bachelor's Degree (1979).
3. I am a professional Geologist registered with the Ordre des Geologues du Québec (OGQ, reg, no. 396) and Association of Professional Geoscientists of Ontario (APGO reg. no. 683)
4. I have practiced my profession as a geologist for over 30 years. I have prepared reports, conducted, supervised and managed programs for a number of major and junior companies. I have been operating as a consulting geologist from time to time since 2007.
5. As author of this report, I am familiar with the material covered in this report having been directly involved in all aspects of the exploration program conducted on the Grizzly Property in 2013.
6. I own shares of Northern Superior Resources, a publicly traded company with securities listed on the Vancouver Stock Exchange.
7. Permission is granted for use of this report, in whole or in part, for assessment and assignment requirements, but not for advertising purposes.



Donald R. Boucher géo

DATED at Lorraine, Québec

This 3rd day of February, 2014

Appendix I - Grizzly Mining Claims

Appendix 1 - Grizzly Gold Property Mining Claims

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CDC	2394409	55.01	Active	20/11/2013	19/11/2015	0.00	1200.00
CDC	2396050	36.06	Active	13/12/2013	12/12/2015	0.00	1200.00
CDC	2385333	55.35	Active	14/05/2013	13/05/2015	0.00	1200.00
CDC	2389629	55.34	Active	27/08/2013	26/08/2015	0.00	1200.00
CDC	2394407	55.32	Active	20/11/2013	19/11/2015	0.00	1200.00
CDC	2175207	55.33	Active	03/12/2008	02/12/2014	0.00	1200.00
CDC	2321948	55.35	Active	01/11/2011	31/10/2015	1826.25	1200.00
CDC	2321953	55.34	Active	01/11/2011	31/10/2015	1826.25	1200.00
CDC	2389632	55.34	Active	27/08/2013	26/08/2015	0.00	1200.00
CDC	2351770	26.99	Active	06/07/2012	12/09/2014	0.00	1800.00
CDC	2389620	55.35	Active	27/08/2013	26/08/2015	0.00	1200.00
CDC	2389634	55.33	Active	27/08/2013	26/08/2015	0.00	1200.00
CDC	2321954	55.34	Active	01/11/2011	31/10/2015	1826.25	1200.00
CDC	2389619	55.35	Active	27/08/2013	26/08/2015	0.00	1200.00
CDC	2175205	55.33	Active	03/12/2008	02/12/2014	0.00	1200.00
CDC	2022944	55.36	Active	08/08/2006	07/08/2014	159311.08	1800.00
CDC	2321956	55.34	Active	01/11/2011	31/10/2015	0.00	1200.00
CDC	2321946	55.35	Active	01/11/2011	31/10/2015	1826.25	1200.00
CDC	2321952	55.35	Active	01/11/2011	31/10/2015	0.00	1200.00
CDC	2022941	55.36	Active	08/08/2006	07/08/2014	0.00	1800.00
CDC	2390909	52.91	Active	18/09/2013	17/09/2015	0.00	1200.00
CDC	2038570	55.37	Active	08/12/2006	07/12/2014	7777.75	1800.00

CDC	2389633	55.34	Active	27/08/2013	26/08/2015	0.00	1200.00
CDC	2389635	55.33	Active	27/08/2013	26/08/2015	0.00	1200.00
CDC	2163402	28.34	Active	27/06/2008	26/06/2014	0.00	1200.00
CDC	2389618	55.35	Active	27/08/2013	26/08/2015	0.00	1200.00
CDC	2022942	55.36	Active	08/08/2006	07/08/2014	0.00	1800.00
CDC	2398433	55.83	Active	30/01/2014	29/01/2016	0.00	1200.00
CDC	2898432	54.94	Active	30/01/2014	29/01/2016	0.00	1200.00

FEU_NO	TT_DES_AN	DET_NO	DET_NOM
32G14	South	13374	Elisabeth de France
32J03	South	13374	Elisabeth de France
32J03	South	13374	Elisabeth de France
32G14	South	13374	Elisabeth de France
32J03	South	13374	Elisabeth de France
32J03	South	13374	Elisabeth de France
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32J03	South	13374	Elisabeth de France
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32J03	South	13374	Elisabeth de France
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32J03	South	13374	Elisabeth de France
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32J03	South	13374	Elisabeth de France
32J03	South	13374	Elisabeth de France
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32G14	South	13374	Elisabeth de France

32G14	South	13374	Elisabeth de France
32J03	South	13374	Elisabeth de France
32G14	South	168	Denis Bergeron
32G14	South	168	Denis Bergeron
32J03	South	168	Denis Bergeron
32G14	South	168	Denis Bergeron
32J03	South	168	Denis Bergeron
32J03	South	5214	G.L. Geoservice inc.
32G14	South	5214	G.L. Geoservice inc.
32J03	South	5214	G.L. Geoservice inc.
32G14	South	5214	G.L. Geoservice inc.
32J03	South	5214	G.L. Geoservice inc.
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32J03	South	5214	G.L. Geoservice inc.
32J03	South	5214	G.L. Geoservice inc.
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32G14	South	5214	G.L. Geoservice inc.
32J03	South	5214	G.L. Geoservice inc.
32G14	South	5214	G.L. Geoservice inc.
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32J03	South	5214	G.L. Geoservice inc.
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32J03	South	5214	G.L. Geoservice inc.
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32J03	South	5214	G.L. Geoservice inc.
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32J03	South	5214	G.L. Geoservice inc.
32G14	South	5214	G.L. Geoservice inc.

32G14	South	5214	G.L. Geoservice inc.
32J03	South	5214	G.L. Geoservice inc.
32J03	South	5214	G.L. Geoservice inc.
32G14	South	5214	G.L. Geoservice inc.
32G14	South	5214	G.L. Geoservice inc.
32G14	South	5214	G.L. Geoservice inc.
32G14	South	5214	G.L. Geoservice inc.

DET_LIST	DET_NUMER
Elisabeth de France (13374) 100 % (responsable)	0000013374
Elisabeth de France (13374) 100 % (responsable)	0000013374
Elisabeth de France (13374) 100 % (responsable)	0000013374
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Elisabeth de France (13374) 100 % (responsable)	0000013374
Denis Bergeron (168) 100 % (responsable)	0000000168
Denis Bergeron (168) 100 % (responsable)	0000000168
Denis Bergeron (168) 100 % (responsable)	0000000168
Denis Bergeron (168) 100 % (responsable)	0000000168
Denis Bergeron (168) 100 % (responsable)	0000000168
Marc Bouchard (3671) 50 % (responsable); G.L. Geoservice inc. (5214) 50 %	00000036710000005214
Marc Bouchard (3671) 50 %; G.L. Geoservice inc. (5214) 50 % (responsable)	00000036710000005214
Marc Bouchard (3671) 50 % (responsable); G.L. Geoservice inc. (5214) 50 %	00000036710000005214
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Marc Bouchard (3671) 50 %; G.L. Geoservice inc. (5214) 50 % (responsable)	00000036710000005214
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Marc Bouchard (3671) 50 %; G.L. Geoservice inc. (5214) 50 % (responsable)	00000036710000005214

Appendix II - ALS Assay Certificates

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver 8C V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: NORTHERN SUPERIOR RESOURCES INC
1351C KELLY LAKE ROAD
UNIT 7
SUDBURY ON P3E 5P5

Finalized Date: 7-SEP-2013
Account: SUPDIA

CERTIFICATE SD13153360

Project: 15620

P.O. No.:

This report is for 46 Rock samples submitted to our lab in Sudbury, ON, Canada on 19-AUG-2013.

The following have access to data associated with this certificate:

NORTHERN SUPERIOR DATA ACCESS	MATT SOOLEY	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-22Y	Split Sample - Boyd Rotary Splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP61	33 element four acid ICP-AES	ICP-AES
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES

To: NORTHERN SUPERIOR RESOURCES INC
ATTN: NORTHERN SUPERIOR DATA ACCESS
1351C KELLY LAKE ROAD
UNIT 7
SUDBURY ON P3E 5P5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: NORTHERN SUPERIOR RESOURCES INC
1351C KELLY LAKE ROAD
UNIT 7
SUDBURY ON P3E 5P5

Finalized Date: 7-SEP-2013
Account: SUPDIA

Project: 15620

CERTIFICATE OF ANALYSIS SD13153360

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 Ga ppm 10
P447301		0.40	<0.005	<0.5	0.17	<5	<10	<0.5	<2	0.04	<0.5	2	22	24	0.38	<10
P447302		2.59	<0.005	<0.5	7.39	<5	50	<0.5	<2	6.05	<0.5	44	148	43	8.72	20
P447303		1.92	<0.005	<0.5	7.24	<5	20	<0.5	<2	6.98	0.5	44	160	88	8.76	20
P447304		1.93	<0.005	<0.5	8.17	<5	60	<0.5	2	6.52	<0.5	49	164	102	8.60	20
P447305		1.20	<0.005	<0.5	7.36	5	20	0.5	3	14.2	0.6	34	94	27	12.00	30
P447307		0.77	<0.005	<0.5	5.11	<5	20	<0.5	<2	8.25	0.6	31	112	77	5.92	20
P447308		1.41	0.006	<0.5	6.87	5	10	<0.5	<2	7.53	1.0	54	181	311	8.25	20
P447309		1.17	<0.005	<0.5	6.68	<5	20	<0.5	<2	4.43	0.5	42	19	28	10.50	20
P447310		1.22	<0.005	<0.5	6.45	<5	470	0.8	<2	0.98	<0.5	7	43	7	2.28	20
P447311		1.57	<0.005	<0.5	5.90	<5	80	2.1	<2	0.31	<0.5	<1	15	1	0.65	20
P447312		2.29	<0.005	<0.5	7.55	<5	20	<0.5	<2	7.24	0.5	41	152	88	8.46	20
P447313		2.06	<0.005	<0.5	8.02	<5	10	<0.5	<2	4.51	0.5	51	173	104	10.05	20
P447351		1.12	0.018	<0.5	8.00	45	520	1.9	2	4.47	<0.5	33	216	159	5.86	20
P447352		2.08	0.017	<0.5	7.96	<5	40	<0.5	2	5.84	7.1	39	116	170	10.90	20
P447353		1.16	0.010	<0.5	0.75	14	20	<0.5	<2	3.50	1.0	7	6	53	29.1	<10
P447354		2.52	<0.005	<0.5	7.79	<5	380	<0.5	<2	4.61	0.5	49	146	250	9.42	20
P447355		0.67	<0.005	<0.5	5.75	5	1330	1.6	<2	1.33	<0.5	3	9	186	1.65	10
P447356		0.80	<0.005	<0.5	5.66	<5	390	0.7	<2	0.45	<0.5	9	20	42	2.05	10
P447357		1.10	0.015	<0.5	4.43	3190	100	<0.5	<2	4.97	<0.5	29	120	73	5.89	10
P447358		1.93	<0.005	<0.5	1.28	<5	40	<0.5	<2	0.40	0.6	<1	10	82	25.7	<10
P447359		0.81	<0.005	<0.5	1.61	6	200	<0.5	<2	0.19	1.6	12	23	27	6.16	<10
P447360		1.12	<0.005	<0.5	1.14	<5	50	<0.5	<2	0.44	<0.5	8	59	2	1.60	<10
P447361		1.37	0.043	0.8	2.83	316	100	<0.5	4	0.70	1.1	114	74	94	26.3	10
P447362		0.50	<0.005	<0.5	7.11	38	580	0.7	<2	0.14	<0.5	1	21	11	4.22	20
P447363		0.58	0.006	0.6	1.02	190	10	<0.5	<2	0.15	<0.5	19	21	29	40.0	<10
P447364		0.22	0.021	<0.5	0.54	84	20	<0.5	<2	0.29	<0.5	22	5	11	35.1	<10
P447365		0.31	<0.005	<0.5	0.64	113	30	<0.5	<2	0.36	0.6	23	4	6	38.7	<10
P447401		1.23	<0.005	<0.5	5.04	<5	60	1.3	2	0.10	<0.5	5	29	12	1.90	20
P447402		0.66	<0.005	<0.5	5.17	<5	50	1.4	<2	0.24	<0.5	1	41	6	1.05	20
P447403		1.03	<0.005	<0.5	5.58	<5	60	2.1	2	0.18	<0.5	1	21	6	4.05	20
P447404		1.14	0.012	<0.5	7.17	19	230	0.7	<2	2.03	<0.5	20	59	31	4.89	20
P447405		1.60	0.005	<0.5	7.12	<5	90	<0.5	<2	5.14	0.6	50	111	258	11.45	20
P447406		0.48	0.162	0.8	1.00	9	30	<0.5	<2	0.19	<0.5	69	53	762	3.04	<10
P447407		1.12	<0.005	<0.5	7.04	<5	30	<0.5	<2	5.61	<0.5	46	143	67	8.77	20
P447408		1.65	<0.005	<0.5	7.02	<5	20	<0.5	3	6.06	<0.5	46	11	122	12.55	20
P447409		1.06	<0.005	<0.5	1.68	<5	200	<0.5	<2	1.00	<0.5	8	41	13	1.78	10
P447410		0.87	<0.005	<0.5	7.39	<5	40	<0.5	<2	6.91	<0.5	53	142	161	9.23	20
P447411		1.42	<0.005	<0.5	6.73	<5	20	<0.5	2	5.88	<0.5	44	163	94	8.38	20
P447412		1.41	<0.005	<0.5	6.71	<5	20	<0.5	2	6.32	0.5	43	161	79	8.98	20
P447413		1.00	<0.005	<0.5	7.34	<5	40	<0.5	<2	7.49	<0.5	44	109	29	8.92	20

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver 8C V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: NORTHERN SUPERIOR RESOURCES INC
1351C KELLY LAKE ROAD
UNIT 7
SUDBURY ON P3E 5P5

Finalized Date: 7-SEP-2013
Account: SUPDIA

Project: 15620

CERTIFICATE OF ANALYSIS SD13153360

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Tl
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
P447301		0.02	<10	0.07	51	<1	0.03	5	10	<2	0.01	<5	1	2	<20	0.01
P447302		0.10	<10	3.26	1580	<1	1.68	98	320	<2	0.03	<5	43	91	<20	0.68
P447303		0.05	<10	3.27	1375	<1	1.81	91	350	<2	0.12	<5	40	104	<20	0.66
P447304		0.22	<10	4.63	1350	<1	1.84	126	320	<2	0.08	<5	40	142	<20	0.60
P447305		0.02	<10	3.08	2490	<1	0.15	68	260	2	0.02	<5	28	595	<20	0.43
P447307		0.04	<10	1.42	1185	<1	0.03	51	260	2	0.09	<5	30	399	<20	0.46
P447308		0.03	<10	3.70	1350	<1	0.87	106	230	<2	0.40	<5	37	81	<20	0.44
P447309		0.05	<10	2.78	1650	<1	3.00	23	400	<2	0.03	<5	46	111	<20	0.91
P447310		1.64	20	0.40	355	<1	2.00	8	330	3	0.01	<5	6	188	<20	0.22
P447311		1.25	10	0.05	419	<1	3.13	<1	80	10	0.15	<5	2	81	<20	<0.01
P447312		0.12	<10	4.63	1320	<1	1.13	116	300	<2	0.06	<5	37	128	<20	0.56
P447313		0.03	<10	3.80	1850	<1	1.68	122	280	<2	0.05	<5	37	62	<20	0.56
P447351		0.63	<10	1.37	1395	2	5.03	49	190	6	1.15	<5	31	161	<20	0.35
P447352		0.09	10	3.52	1790	<1	1.26	69	510	4	0.36	<5	47	152	<20	0.73
P447353		0.08	10	3.61	3490	1	0.10	3	3870	14	5.84	<5	1	57	<20	0.03
P447354		0.88	<10	4.19	1265	<1	2.32	98	460	<2	2.51	<5	38	67	<20	0.71
P447355		0.94	120	0.29	303	<1	3.10	<1	830	8	0.15	<5	3	569	20	0.20
P447356		1.50	20	0.19	159	1	2.14	10	290	9	0.94	<5	3	179	<20	0.15
P447357		1.10	<10	1.62	1010	<1	0.29	54	240	<2	1.29	<5	19	58	<20	0.27
P447358		0.14	10	0.52	9140	<1	0.17	45	100	8	>10.0	<5	2	37	<20	0.04
P447359		0.31	<10	0.21	2330	2	0.53	21	70	3	3.90	<5	4	59	<20	0.04
P447360		0.18	<10	0.76	295	<1	0.03	14	30	<2	0.05	<5	6	8	<20	0.09
P447361		0.32	<10	0.53	1655	1	1.00	62	160	45	>10.0	<5	14	74	<20	0.19
P447362		1.87	10	0.11	25	<1	2.66	2	430	4	0.41	<5	3	283	<20	0.10
P447363		0.02	<10	0.42	968	1	0.04	19	430	21	>10.0	<5	1	5	<20	0.05
P447364		0.05	<10	1.16	10250	1	0.06	24	50	8	>10.0	6	5	15	<20	0.01
P447365		0.06	<10	1.77	11400	<1	0.02	20	40	10	>10.0	<5	1	8	<20	0.01
P447401		2.67	<10	0.05	136	<1	2.19	11	60	16	0.87	<5	1	47	<20	<0.01
P447402		3.01	10	0.07	413	<1	2.25	1	100	9	0.09	<5	1	34	<20	<0.01
P447403		3.25	10	0.21	1225	<1	1.95	1	70	19	0.90	<5	2	37	<20	<0.01
P447404		1.87	10	0.31	151	1	1.68	13	770	7	3.15	<5	8	276	<20	0.43
P447405		0.22	<10	1.67	1660	<1	1.42	121	350	<2	5.02	<5	39	111	<20	0.51
P447406		0.13	<10	0.24	156	<1	0.20	50	50	<2	1.20	<5	5	11	<20	0.07
P447407		0.11	<10	4.79	1430	<1	2.42	98	330	<2	0.07	<5	43	59	<20	0.66
P447408		0.06	<10	3.14	2030	<1	1.89	24	600	5	0.14	<5	50	114	<20	1.05
P447409		0.25	<10	0.61	261	<1	0.08	19	70	<2	0.02	<5	7	34	<20	0.12
P447410		0.11	<10	4.31	1480	<1	1.94	107	340	<2	0.10	<5	43	151	<20	0.64
P447411		0.06	<10	3.04	1210	<1	1.59	80	340	<2	0.19	<5	38	81	<20	0.63
P447412		0.09	<10	3.95	1430	<1	1.75	82	360	2	0.14	<5	39	91	<20	0.66
P447413		0.33	<10	3.11	1490	<1	1.21	73	430	<2	0.19	<5	36	147	<20	0.78

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: NORTHERN SUPERIOR RESOURCES INC
1351C KELLY LAKE ROAD
UNIT 7
SUDBURY ON P3E 5P5

Finalized Date: 7-SEP-2013
Account: SUPDIA

Project: 15620

CERTIFICATE OF ANALYSIS SD13153360

Sample Description	Method Analyte Units LOR	ME-ICP61 Tl ppm 10	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001
P447301		<10	<10	10	<10	<2			
P447302		<10	<10	309	<10	93			
P447303		<10	<10	303	<10	91			
P447304		<10	<10	276	<10	91			
P447305		<10	<10	291	<10	62			
P447307		<10	<10	210	<10	59			
P447308		<10	<10	238	<10	89			
P447309		<10	<10	361	<10	96			
P447310		<10	<10	57	<10	45			
P447311		<10	<10	1	<10	33			
P447312		<10	<10	259	<10	81			
P447313		<10	<10	264	<10	108			
P447351		<10	<10	172	40	59			
P447352		<10	<10	326	<10	2510			
P447353		<10	<10	13	<10	53			
P447354		<10	<10	294	<10	153			
P447355		<10	<10	72	<10	32			
P447356		<10	<10	26	<10	102			
P447357		<10	<10	204	10	38			
P447358		<10	<10	13	<10	140			
P447359		<10	<10	24	<10	430			
P447360		<10	<10	38	<10	23			
P447361		<10	<10	89	<10	453			
P447362		<10	<10	25	<10	9			
P447363		<10	<10	17	<10	22			
P447364		<10	<10	13	<10	43			
P447365		<10	<10	7	<10	32			
P447401		<10	<10	1	<10	11			
P447402		<10	<10	1	<10	131			
P447403		<10	<10	5	<10	51			
P447404		<10	<10	97	<10	32			
P447405		<10	<10	275	<10	190			
P447406		<10	<10	36	<10	17			
P447407		<10	<10	306	<10	94			
P447408		<10	<10	427	<10	115			
P447409		<10	<10	65	<10	16			
P447410		<10	<10	304	10	87			
P447411		<10	<10	295	<10	101			
P447412		<10	<10	307	<10	125			
P447413		<10	<10	298	<10	100			

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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To: NORTHERN SUPERIOR RESOURCES INC
1351C KELLY LAKE ROAD
UNIT 7
SUDBURY ON P3E 5P5

Finalized Date: 7-SEP-2013
Account: SUPDIA

Project: 15620

CERTIFICATE OF ANALYSIS SD13153360

Sample Description	Method / Analyte / Units / LOR	WEI-21 Recvd Wt. kg 0.02	Au-AA23 Au g/t 0.005	ME-ICP61 Ag ppm 0.5	ME-ICP61 Al % 0.01	ME-ICP61 As ppm 5	ME-ICP61 Ba ppm 10	ME-ICP61 Be ppm 0.5	ME-ICP61 Bi ppm 2	ME-ICP61 Ca % 0.01	ME-ICP61 Cd ppm 0.5	ME-ICP61 Co ppm 1	ME-ICP61 Cr ppm 1	ME-ICP61 Cu ppm 1	ME-ICP61 Fe % 0.01	ME-ICP61 Ga ppm 10
P447414		1.48	0.008	<0.5	2.90	522	<10	<0.5	<2	0.76	<0.5	11	28	3	2.72	10
P447415		1.50	<0.005	<0.5	6.57	8	10	<0.5	4	5.53	0.6	38	8	183	12.30	20
P447416		1.42	<0.005	<0.5	6.99	5	20	<0.5	<2	7.21	0.7	47	169	98	8.74	20
P447417		1.44	<0.005	<0.5	6.02	<5	310	3.0	<2	0.18	<0.5	2	28	3	1.59	20
P447418		1.04	<0.005	<0.5	5.80	6	70	<0.5	<2	6.81	0.6	38	92	130	10.90	10
P447306		0.98														

***** See Appendix Page for comments regarding this certificate *****

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To: NORTHERN SUPERIOR RESOURCES INC
1351C KELLY LAKE ROAD
UNIT 7
SUDBURY ON P3E 5P5

Finalized Date: 7-SEP-2013
Account: SUPDIA

Project: 15620

CERTIFICATE OF ANALYSIS SD13153360

Sample Description	Method / Analyte / Units / LOR	ME-ICP61 K % 0.01	ME-ICP61 La ppm 10	ME-ICP61 Mg % 0.01	ME-ICP61 Mn ppm 5	ME-ICP61 Mo ppm 1	ME-ICP61 Na % 0.01	ME-ICP61 Ni ppm 1	ME-ICP61 P ppm 10	ME-ICP61 Pb ppm 2	ME-ICP61 S % 0.01	ME-ICP61 Sb ppm 5	ME-ICP61 Sc ppm 1	ME-ICP61 Sr ppm 1	ME-ICP61 Th ppm 20	ME-ICP61 Tl % 0.01
P447414		0.01	<10	0.62	230	<1	0.40	3	720	<2	0.03	<5	40	130	<20	0.11
P447415		0.08	10	2.47	1450	<1	0.03	10	1640	3	1.50	<5	38	140	<20	1.06
P447416		0.07	<10	2.72	1440	<1	2.13	86	370	<2	0.37	<5	40	89	<20	0.67
P447417		3.64	<10	0.11	388	<1	2.45	2	80	12	0.73	<5	3	87	<20	0.01
P447418		0.19	<10	2.12	2900	<1	1.13	67	230	<2	0.53	<5	32	85	<20	0.27
P447306																

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: NORTHERN SUPERIOR RESOURCES INC
1351C KELLY LAKE ROAD
UNIT 7
SUDBURY ON P3E 5P5

Finalized Date: 7-SEP-2013
Account: SUPDIA

Project: 15620

CERTIFICATE OF ANALYSIS SD13153360

Sample Description	Method / Analyte / Units / LOR	ME-ICP61 Tl ppm 10	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001
P447414		<10	<10	299	<10	26			
P447415		10	<10	190	<10	158			
P447416		<10	<10	312	<10	110			
P447417		<10	<10	1	<10	61			
P447418		<10	<10	226	<10	110			
P447306							0.027	0.038	0.045

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
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To: NORTHERN SUPERIOR RESOURCES INC
1351C KELLY LAKE ROAD
UNIT 7
SUDBURY ON P3E 5P5

Finalized Date: 7-SEP-2013
Account: SUPDIA

Project: 15620

CERTIFICATE OF ANALYSIS SD13153360

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.

Applies to Method:				
	CRU-31	CRU-QC	LOG-22	PUL-31
	PUL-QC	SPL-22Y	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:			
	Au-AA23	ME-ICP61	PGM-ICP23

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver BC V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: NORTHERN SUPERIOR RESOURCES INC
1351C KELLY LAKE ROAD
UNIT 7
SUDBURY ON P3E 5P5

Finalized Date: 14-SEP-2013
Account: SUPDIA

CERTIFICATE SD13153399

Project: 15620
P.O. No.:
This report is for 51 Rock samples submitted to our lab in Sudbury, ON, Canada on 30-AUG-2013.
The following have access to data associated with this certificate:

NORTHERN SUPERIOR DATA ACCESS	MATT SOOLEY	

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-22Y	Split Sample - Boyd Rotary Splitter
PUL-31	Pulverize split to 85% <75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au-AA23	Au 30g FA-AA finish	AAS
ME-ICP61	33 element four acid ICP-AES	ICP-AES
PGM-ICP23	Pt, Pd, Au 30g FA ICP	ICP-AES

To: NORTHERN SUPERIOR RESOURCES INC
ATTN: NORTHERN SUPERIOR DATA ACCESS
1351C KELLY LAKE ROAD
UNIT 7
SUDBURY ON P3E 5P5

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:
Colin Ramshaw, Vancouver Laboratory Manager

ALS Canada Ltd.
2103 Dollarton Hwy
North Vancouver 8C V7H 0A7
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: NORTHERN SUPERIOR RESOURCES INC
1351C KELLY LAKE ROAD
UNIT 7
SUDBURY ON P3E 5P5

Finalized Date: 14-SEP-2013
Account: SUPDIA

Project: 15620

CERTIFICATE OF ANALYSIS SD13153399

Sample Description	Method	WEI-21	Au-AA23	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	kg	g/t	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOR	0.02	0.005	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
P447314		2.21	0.103	<0.5	6.43	26	350	0.9	2	3.35	<0.5	23	101	78	5.98	20
P447315		0.80	<0.005	<0.5	7.04	<5	420	0.7	<2	3.72	<0.5	24	170	37	5.17	20
P447316		1.23	<0.005	<0.5	6.64	9	320	0.6	<2	4.79	<0.5	29	191	62	5.95	20
P447317		0.72	<0.005	<0.5	6.55	21	230	<0.5	<2	2.80	<0.5	35	85	154	6.74	20
P447318		1.12	0.048	<0.5	6.74	4520	310	<0.5	2	7.02	0.6	43	124	128	7.82	20
P447319		0.83	<0.005	<0.5	6.76	177	130	<0.5	<2	4.72	0.5	39	133	75	8.43	20
P447320		1.89	0.028	<0.5	5.98	3760	190	<0.5	<2	6.98	0.5	37	109	139	7.49	20
P447321		0.71	0.042	<0.5	4.54	5190	70	<0.5	<2	4.84	<0.5	28	80	21	5.92	10
P447322		0.73	0.005	<0.5	5.28	973	140	<0.5	<2	6.83	<0.5	33	106	67	6.91	10
P447323		0.33	<0.005	<0.5	7.61	1105	120	<0.5	<2	3.67	<0.5	48	158	88	9.08	20
P447324		0.73	<0.005	<0.5	7.12	580	90	<0.5	<2	4.88	0.6	47	137	94	8.49	20
P447325		0.48	<0.005	<0.5	0.40	30	10	<0.5	<2	0.59	<0.5	4	25	9	1.17	<10
P447326		0.78	<0.005	<0.5	7.23	182	130	<0.5	4	5.69	0.5	45	132	92	8.32	20
P447327		0.92	0.021	<0.5	6.68	292	280	<0.5	2	5.19	0.8	50	138	787	7.67	20
P447328		0.69	<0.005	<0.5	1.74	231	60	<0.5	<2	1.32	<0.5	11	48	31	2.62	<10
P447329		1.55	0.048	<0.5	4.33	6520	370	<0.5	<2	4.78	<0.5	25	85	44	5.46	10
P447330		0.60	0.026	<0.5	6.72	4080	350	<0.5	<2	6.75	0.6	43	124	88	8.34	20
P447331		0.41	0.013	<0.5	0.60	1325	40	<0.5	<2	0.54	<0.5	5	33	6	1.35	<10
P447366		1.52	<0.005	<0.5	6.98	694	500	1.0	<2	0.97	<0.5	4	15	7	1.60	20
P447367		1.33	0.029	<0.5	6.35	3130	1450	0.6	4	4.36	0.6	23	31	60	8.85	20
P447368		0.62	0.013	<0.5	7.45	2170	1620	0.5	4	5.79	<0.5	24	209	63	6.99	20
P447369		0.47	0.088	<0.5	7.53	3380	1770	0.5	2	6.06	<0.5	30	186	54	7.54	20
P447370		0.63	<0.005	<0.5	0.30	68	10	<0.5	<2	0.04	<0.5	<1	18	1	0.51	<10
P447371		0.66	0.079	<0.5	7.87	>10000	2300	0.7	<2	5.32	<0.5	29	188	12	6.59	20
P447372		1.12	<0.005	<0.5	7.42	34	4940	<0.5	2	8.50	<0.5	16	77	20	4.11	30
P447373		1.24	0.097	<0.5	6.68	>10000	960	0.7	<2	5.58	<0.5	24	130	37	6.03	20
P447374		0.66	<0.005	<0.5	8.43	48	350	0.8	3	3.03	<0.5	29	124	121	5.25	30
P447377		0.83	<0.005	<0.5	6.30	24	320	0.7	2	0.61	<0.5	14	19	49	2.99	20
P447419		1.11	<0.005	<0.5	3.18	<5	20	<0.5	2	1.73	<0.5	16	70	77	3.67	10
P447420		0.70	0.011	<0.5	3.17	15	90	0.7	3	0.86	1.0	52	37	165	26.6	10
P447421		1.13	<0.005	<0.5	6.42	99	300	0.6	<2	2.45	<0.5	5	19	16	2.65	10
P447422		0.95	<0.005	<0.5	7.54	14	840	0.9	<2	5.01	<0.5	19	97	38	5.75	20
P447423		0.84	<0.005	<0.5	7.43	11	620	0.9	5	4.32	<0.5	20	109	40	5.51	20
P447424		0.65	<0.005	<0.5	7.64	10	420	0.6	3	3.56	<0.5	26	152	52	5.46	20
P447425		1.20	0.029	5.6	3.38	37	40	1.2	4	1.35	<0.5	23	83	4370	4.14	10
P447426		1.51	<0.005	<0.5	2.13	53	60	0.7	<2	2.92	<0.5	17	65	15	3.22	10
P447427		2.82	<0.005	<0.5	4.08	83	110	1.5	<2	5.60	<0.5	26	97	39	5.26	10
P447428		1.62	<0.005	<0.5	4.98	109	190	1.8	<2	5.46	<0.5	33	109	31	5.65	10
P447429		1.58	<0.005	<0.5	2.35	38	60	0.9	<2	2.55	<0.5	14	66	11	3.03	10
P447430		0.93	<0.005	<0.5	3.56	59	130	1.5	<2	4.58	<0.5	23	89	21	4.58	10

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: NORTHERN SUPERIOR RESOURCES INC
1351C KELLY LAKE ROAD
UNIT 7
SUDBURY ON P3E 5P5

Finalized Date: 14-SEP-2013
Account: SUPDIA

Project: 15620

CERTIFICATE OF ANALYSIS SD13153399

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Tl
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
P447314		2.21	10	1.95	773	1	2.02	49	880	2	1.82	<5	18	413	<20	0.42
P447315		1.02	20	2.08	838	<1	2.36	69	500	<2	0.09	<5	18	407	<20	0.45
P447316		0.83	10	2.15	1095	<1	1.87	90	540	<2	0.34	<5	23	514	<20	0.50
P447317		0.58	10	2.54	1030	<1	2.41	48	2000	4	0.93	<5	25	280	<20	0.70
P447318		1.25	<10	3.16	1395	<1	2.57	92	270	<2	0.75	<5	32	296	<20	0.63
P447319		0.88	<10	3.29	1300	<1	2.18	83	410	<2	0.34	5	33	194	<20	0.53
P447320		0.98	<10	3.04	1310	<1	2.60	74	270	<2	1.00	<5	30	275	<20	0.57
P447321		0.54	<10	1.66	916	<1	2.88	56	50	<2	2.30	<5	16	214	<20	0.27
P447322		1.11	<10	2.69	1290	<1	2.23	70	110	<2	1.31	<5	26	269	<20	0.43
P447323		1.59	<10	2.81	1420	<1	1.88	105	390	<2	0.56	<5	35	150	<20	0.36
P447324		0.44	<10	2.80	1445	<1	3.59	97	380	<2	0.26	<5	33	204	<20	0.55
P447325		0.05	<10	0.17	258	2	0.21	8	10	<2	0.05	<5	4	28	<20	0.02
P447326		1.50	<10	3.11	1430	<1	1.55	96	420	<2	0.16	<5	34	142	<20	0.63
P447327		1.72	<10	2.43	1210	<1	2.23	103	50	<2	1.46	<5	33	258	<20	0.59
P447328		0.32	<10	0.45	492	1	0.92	21	40	<2	0.39	<5	9	67	<20	0.13
P447329		1.38	<10	1.79	956	1	1.27	57	120	9	1.27	<5	19	211	<20	0.34
P447330		1.39	<10	3.04	1505	<1	2.74	86	280	<2	1.39	<5	31	264	<20	0.58
P447331		0.17	<10	0.18	259	1	0.21	8	30	<2	0.16	<5	4	32	<20	0.05
P447366		0.31	60	0.08	334	<1	5.11	2	750	<2	0.23	<5	3	495	<20	0.20
P447367		1.48	<10	1.80	2190	1	1.22	29	80	3	0.78	<5	40	179	<20	0.92
P447368		2.20	<10	1.87	1470	<1	1.33	39	340	<2	0.94	<5	37	219	<20	0.53
P447369		1.88	<10	2.13	1490	1	1.69	40	300	<2	0.45	<5	40	259	<20	0.62
P447370		0.01	<10	0.05	53	<1	0.04	<1	<10	<2	0.03	<5	1	12	<20	0.01
P447371		2.28	<10	1.38	1755	<1	1.65	51	470	<2	0.74	<5	38	178	<20	0.48
P447372		2.31	10	0.83	828	<1	0.45	30	1410	<2	0.23	<5	15	179	<20	0.29
P447373		1.97	<10	1.81	1440	<1	0.92	31	470	<2	1.32	<5	31	165	<20	0.48
P447374		3.51	<10	0.68	1280	3	1.06	60	430	<2	1.01	<5	31	82	<20	0.26
P447377		2.02	20	0.25	200	1	1.65	16	310	6	1.57	<5	4	162	<20	0.19
P447419		0.03	<10	0.75	654	1	1.05	32	180	<2	0.08	<5	17	61	<20	0.35
P447420		0.22	10	0.47	2650	3	0.69	44	240	17	>10.0	8	6	109	<20	0.07
P447421		0.76	10	0.63	703	<1	3.79	14	360	3	0.48	<5	3	560	<20	0.12
P447422		2.17	20	2.06	1010	<1	2.39	47	1070	2	0.30	<5	17	776	<20	0.55
P447423		1.66	20	1.99	1010	<1	2.76	49	1210	<2	0.01	<5	17	664	<20	0.56
P447424		1.21	10	2.51	838	<1	2.88	67	570	<2	0.06	<5	20	304	<20	0.48
P447425		0.49	<10	0.51	932	18	1.72	57	170	<2	0.84	<5	15	44	<20	0.12
P447426		0.50	<10	0.93	612	5	0.86	39	80	<2	0.91	<5	9	80	<20	0.07
P447427		0.95	<10	1.87	1170	4	1.59	67	150	<2	1.15	<5	19	151	<20	0.15
P447428		1.70	<10	1.78	1160	4	1.08	66	140	<2	1.81	<5	23	150	<20	0.20
P447429		0.43	<10	0.87	659	3	1.06	30	100	<2	0.49	<5	11	73	<20	0.08
P447430		0.91	<10	1.63	1175	8	1.32	48	110	2	0.78	<5	17	135	<20	0.12

***** See Appendix Page for comments regarding this certificate *****

ALS Canada Ltd.
2103 Dollarton Hwy
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Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

To: NORTHERN SUPERIOR RESOURCES INC
1351C KELLY LAKE ROAD
UNIT 7
SUDBURY ON P3E 5P5

Finalized Date: 14-SEP-2013
Account: SUPDIA

Project: 15620

CERTIFICATE OF ANALYSIS SD13153399

Sample Description	Method Analyte Units LOR	ME-ICP61 Tl ppm 10	ME-ICP61 U ppm 10	ME-ICP61 V ppm 1	ME-ICP61 W ppm 10	ME-ICP61 Zn ppm 2	PGM-ICP23 Au ppm 0.001	PGM-ICP23 Pt ppm 0.005	PGM-ICP23 Pd ppm 0.001
P447314		<10	<10	111	<10	63			
P447315		<10	<10	158	<10	76			
P447316		<10	<10	157	<10	78			
P447317		<10	<10	86	<10	104			
P447318		<10	<10	254	10	95			
P447319		<10	<10	268	10	104			
P447320		<10	<10	227	10	103			
P447321		<10	<10	100	10	20			
P447322		<10	<10	193	10	78			
P447323		<10	<10	276	<10	112			
P447324		<10	<10	252	<10	87			
P447325		<10	<10	17	<10	16			
P447326		<10	<10	256	<10	97			
P447327		<10	<10	257	20	164			
P447328		<10	<10	51	<10	36			
P447329		<10	<10	151	10	75			
P447330		<10	<10	252	<10	99			
P447331		<10	<10	21	<10	22			
P447366		<10	<10	25	<10	58			
P447367		<10	<10	454	10	103			
P447368		<10	<10	266	10	60			
P447369		<10	<10	274	<10	46			
P447370		<10	<10	18	<10	3			
P447371		10	<10	294	10	24			
P447372		<10	<10	260	<10	33			
P447373		<10	<10	261	<10	23			
P447374		<10	<10	314	<10	21			
P447377		<10	<10	29	<10	124			
P447419		<10	<10	138	<10	41			
P447420		<10	<10	31	<10	299			
P447421		<10	<10	22	<10	36			
P447422		<10	<10	158	<10	95			
P447423		<10	<10	161	<10	103			
P447424		<10	<10	170	<10	89			
P447425		<10	<10	85	<10	40			
P447426		<10	<10	62	<10	17			
P447427		<10	<10	123	<10	33			
P447428		<10	<10	170	10	29			
P447429		<10	<10	69	<10	22			
P447430		<10	<10	111	<10	35			

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To: NORTHERN SUPERIOR RESOURCES INC
1351C KELLY LAKE ROAD
UNIT 7
SUDBURY ON P3E 5P5

Finalized Date: 14-SEP-2013
Account: SUPDIA

Project: 15620

CERTIFICATE OF ANALYSIS SD13153399

Sample Description	Method	WEI-21	Au-AA23	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	Recvd Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
	Units	kg	g/t	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
	LOR	0.02	0.005	0.5	0.01	5	10	0.5	2	0.01	0.5	1	1	1	0.01	10
P447431		0.92	<0.005	<0.5	6.67	112	330	2.4	<2	7.86	<0.5	46	125	70	8.16	20
P447432		0.76	<0.005	<0.5	3.73	68	190	1.2	2	5.04	<0.5	20	83	44	5.75	10
P447433		0.79	<0.005	<0.5	1.80	63	80	0.6	2	1.73	<0.5	10	56	16	2.27	<10
P447434		1.04	<0.005	<0.5	3.23	60	90	1.1	<2	3.26	<0.5	20	81	8	3.81	10
P447435		0.67	<0.005	<0.5	7.08	41	80	1.4	<2	5.55	0.5	45	152	109	8.21	20
P447436		1.21	0.037	0.6	7.27	66	160	2.9	<2	4.96	0.5	55	155	91	8.83	20
P447437		1.35	0.009	2.4	6.11	61	100	1.9	2	4.91	0.5	47	139	2350	7.06	10
P447438		0.65	0.006	0.6	6.92	46	110	2.8	3	2.52	<0.5	40	144	1430	4.51	10
P447439		1.01	<0.005	<0.5	6.11	32	190	2.8	5	6.22	0.5	35	138	89	7.21	20
P447375		1.03														
P447376		2.06														

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To: NORTHERN SUPERIOR RESOURCES INC
1351C KELLY LAKE ROAD
UNIT 7
SUDBURY ON P3E 5P5

Finalized Date: 14-SEP-2013
Account: SUPDIA

Project: 15620

CERTIFICATE OF ANALYSIS SD13153399

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61
	Analyte	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti
	Units	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
	LOR	0.01	10	0.01	5	1	0.01	1	10	2	0.01	5	1	1	20	0.01
P447431		2.30	<10	3.62	1610	38	1.12	114	200	<2	1.68	<5	31	199	<20	0.27
P447432		1.20	<10	2.06	1300	16	0.77	61	100	<2	0.76	<5	17	142	<20	0.10
P447433		0.64	<10	0.60	453	2	0.37	31	40	<2	0.35	<5	9	48	<20	0.09
P447434		0.77	<10	0.85	837	11	1.11	48	90	<2	0.72	<5	14	83	<20	0.11
P447435		1.79	<10	3.22	1355	8	1.18	122	270	<2	0.15	<5	34	92	<20	0.29
P447436		1.72	<10	2.42	1685	17	2.16	129	300	<2	2.64	<5	37	105	<20	0.25
P447437		1.20	<10	1.65	1440	12	2.24	142	240	<2	0.71	<5	28	92	<20	0.25
P447438		1.28	<10	0.77	862	14	3.52	87	210	<2	0.59	<5	29	77	<20	0.18
P447439		2.43	<10	2.99	1415	34	0.35	108	230	<2	0.55	<5	30	97	<20	0.38
P447375																
P447376																

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1351C KELLY LAKE ROAD
UNIT 7
SUDBURY ON P3E 5P5

Finalized Date: 14-SEP-2013
Account: SUPDIA

Project: 15620

CERTIFICATE OF ANALYSIS SD13153399

Sample Description	Method	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	PGM-ICP23	PGM-ICP23	PGM-ICP23
	Analyte	Tl	U	V	W	Zn	Au	Pt	Pd
	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	LOR	10	10	1	10	2	0.001	0.005	0.001
P447431		<10	<10	236	<10	73			
P447432		<10	<10	116	<10	53			
P447433		<10	<10	66	<10	12			
P447434		<10	<10	98	<10	24			
P447435		<10	<10	243	<10	100			
P447436		<10	<10	265	10	79			
P447437		<10	<10	198	10	90			
P447438		<10	<10	163	<10	43			
P447439		10	<10	210	<10	72			
P447375							0.019	0.013	0.009
P447376							0.014	0.005	0.005

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1351C KELLY LAKE ROAD
UNIT 7
SUDBURY ON P3E 5P5

Finalized Date: 14-SEP-2013
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Project: 15620

CERTIFICATE OF ANALYSIS SD13153399

CERTIFICATE COMMENTS

LABORATORY ADDRESSES

Processed at ALS Sudbury located at 1351-B Kelly Lake Road, Unit #1, Sudbury, ON, Canada.

Applies to Method:	CRU-31	CRU-QC	LOG-22	PUL-31
	PUL-QC	SPL-22Y	WEI-21	

Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.

Applies to Method:	Au-AA23	ME-ICP61	PGM-ICP23

Appendix III - Samples Descriptions

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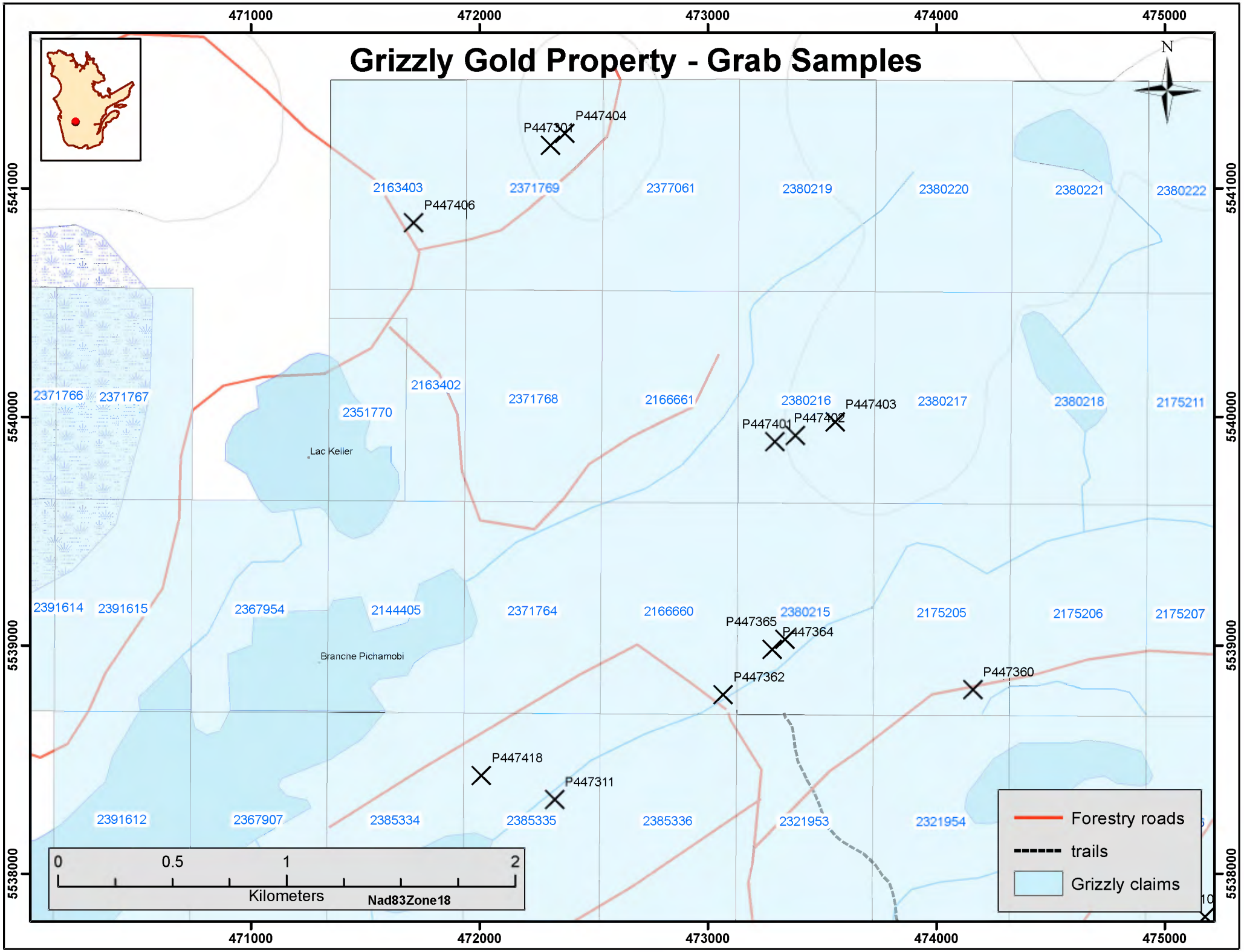
SampNum	SampType	Claim_Num	Datum	Zone	east_83	north_83	MajorU	MinorU	Texture	Structure	Alteration	Mineralization	Comments
P447301	Grab	2371769	NAD83	18	472311	5541190	Quartz	V3B			Nil	tour-1%, no min	bull quartz milky white
P447302	Grab	2311545	NAD83	18	470142	5535215	V1				Nil	no py	
P447303	Grab	2311545	NAD83	18	470513	5535244	V2J				Nil	Tr py	
P447304	Grab	2311545	NAD83	18	470559	5535450	V2J				Nil	py-1% diss	
P447309	Grab	2367900	NAD83	18	472243	5536134	I3A		ms, cg		Nil		dk green to black
P447310	Grab	2321956	NAD83	18	475176	5537814							
P447311	Grab	2385335	NAD83	18	472329	5538327							
P447312	Grab	2321952	NAD83	18	476098	5537743							
P447313	Grab	2368769	NAD83	18	476313	5538092							
P447314	Grab	2389166	NAD83	18	476633	5534231	V3B		ms		Nil minor Ca	5mm py cubes + vfg diss py	
P447315	Grab	2389161	NAD83	18	475761	5533819	V2J		ms		Nil minor Ca	Tr py	
P447316	Grab	2389161	NAD83	18	475784	5533896	V3B	QFP	ms		Nil minor Ep	3% py	contact with QFP
P447317	Grab	2311542	NAD83	18	475087	5533400	V3B		ms			Tr py	
P447318	Grab	2367900	NAD83	18	472273	5536091	I3A			mod Fol	stg Ank, sil, fuch	2% aspy	Showing 8 ans, Alteration Zone that has never been followed-up, Strong Ank, qtz V, aspy, wk - mod fol
P447319	Grab	2367900	NAD83	18	472273	5536091	I3A			mod Fol	stg Ank, sil, fuch	Tr-1% py, aspy	Showing 8 ans, Alteration Zone that has never been followed-up, Strong Ank, qtz V, aspy, wk - mod fol
P447320	Grab	2367900	NAD83	18	472273	5536091	I3A			mod Fol	stg Ank, sil, fuch	3% aspy	Showing 8 ans, Alteration Zone that has never been followed-up, Strong Ank, qtz V, aspy, wk - mod fol
P447321	Grab	2367900	NAD83	18	472273	5536091	I3A			mod Fol	stg Ank, sil, fuch	2% aspy, fg, diss	Showing 8 ans, Alteration Zone that has never been followed-up, Strong Ank, qtz V, aspy, wk - mod fol
P447322	Grab	2367900	NAD83	18	472273	5536091	I3A			wk Fol	stg Ank, sil, fuch	2% aspy + py	Showing 8 ans, Alteration Zone that has never been followed-up, Strong Ank, qtz V, aspy, wk - mod fol
P447323	Grab	2367900	NAD83	18	472273	5536091	I3A				stg Ank	1% aspy + py	Showing 8 ans, Alteration Zone that has never been followed-up, Strong Ank, qtz V, aspy, wk - mod fol
P447324	Grab	2367900	NAD83	18	472273	5536091	I3A			wk Fol	wk Ank, sil	Tr py	Showing 8 ans, Alteration Zone that has never been followed-up, Strong Ank, qtz V, aspy, wk - mod fol
P447325	Grab	2367900	NAD83	18	472273	5536091	Qtz						Showing 8 ans, Smoky qtz
P447326	Grab	2367900	NAD83	18	472273	5536091	I3A			wk Fol	wk Ank	Tr py	Showing 8 ans, Alteration Zone that has never been followed-up, Strong Ank, qtz V, aspy, wk - mod fol
P447327	Grab	2367900	NAD83	18	472273	5536091					stg Ank, sil	py + cpy % qtz	Showing 8 ans, Alteration Zone that has never been followed-up, Strong Ank, qtz V, aspy, wk - mod fol
P447328	Grab	2367900	NAD83	18	472273	5536091					qtz, stg Ank country rock	Tr py	Showing 8 ans, Alteration Zone that has never been followed-up, Strong Ank, qtz V, aspy, wk - mod fol
P447329	Grab	2367900	NAD83	18	472273	5536091	Qtz				qtz, stg Ank country rock	2% aspy	Showing 8 ans, Alteration Zone that has never been followed-up, Strong Ank, qtz V, aspy, wk - mod fol
P447330	Grab	2367900	NAD83	18	472273	5536091					stg Ank, sil	Tr py	Showing 8 ans, Alteration Zone that has never been followed-up, Strong Ank, qtz V, aspy, wk - mod fol
P447331	Grab	2367900	NAD83	18	472273	5536091	Qtz?				stg Ank, sil	2% aspy, contry rock	Showing 8 ans, Alteration Zone that has never been followed-up, Strong Ank, qtz V, aspy, wk - mod fol
P447352	Grab	2311545	NAD83	18	470362	5535571	V2J	S vfg?			Nil	po-1% diss	Beep Mat Anomaly, po magnetic
P447353	Grab	2311546	NAD83	18	471159	5535790	S6G					Gph py-10%	Graphitic Argillite, Beep Mat anomaly
P447354	Grab	2311546	NAD83	18	471109	5535589	V2J	S vfg?				po-3-10%	Beep Mat Anomaly
P447355	Grab	2367899	NAD83	18	471179	5535992	Qtz						bull quartz milky white, some black chlorite or tour.
P447358	Grab	2321957	NAD83	18	475778	5537928	TL1		bx			8% py & po	Mag
P447359	Grab	2321959	NAD83	18	475778	5537928	S		vfg			~1% py diss	
P447360	Grab	2175205	NAD83	18	474159	5538808	Qtz		ms, cg			Nil py	30 cm ang boulder smoky qtz
P447361	Grab	2321947	NAD83	18	472651	5537747	S9E			wk Fol		50% py	boulder, ms Sulph, nodular py, graphitic matrix
P447362	Grab	2166660	NAD83	18	473066	5538786							
P447363	Grab	2321947	NAD83	18	472661	5537747							
P447364	Grab	2380215	NAD83	18	473280	5538984							
P447365	Grab	2380215	NAD83	18	473337	5539028							
P447366	Grab	2367894	NAD83	18	474915	5535684	QFP alt I3A?		ms		ms Cb, qtz, Fuchsite	tr-1% py & aspy	Grêlon Showing,
P447367	Grab	2367894	NAD83	18	474915	5535684			ms, aph		ms Cb, qtz, Fuchsite	tr-1% py & aspy	Grêlon Showing,
P447368	Grab	2367894	NAD83	18	474915	5535684			ms, aph		ms Cb, qtz, Fuchsite	tr-1% py & aspy	Grêlon Showing,
P447369	Grab	2367894	NAD83	18	474915	5535684			ms aph		ms Cb, qtz, Fuchsite	tr-1% py & aspy	Grêlon Showing,
P447370	Grab	2367894	NAD83	18	474915	5535684	Qtz		white		qtz,	tr py	Grêlon Showing,
P447371	Grab	2367894	NAD83	18	474915	5535684	I3A				ms Cb, qtz, Fuchsite	tr-1% py & aspy	Grêlon Showing,
P447372	Grab	2367894	NAD83	18	474915	5535684	I3A				ms Ank, Ca, qtz, Fuchsite	tr-1% py & aspy	Grêlon Showing,
P447373	Grab	2367894	NAD83	18	474915	5535684	I3A				ms Ank, Ca, qtz, Fuchsite	tr-1% py & aspy	Grêlon Showing,
P447374	Grab	2367903	NAD83	18	474987	5536462	S?				ms Ank, qtz, tourm	Tr py	
P447377	Grab	2038579	NAD83	18	476412	5537339	S?				Cb, Si	5% po + py	subangular boulder
P447401	Grab	2380216	NAD83	18	473293	5539894	V1		glassy		wk Sr perv	py-2-5%	along fractures
P447402	Grab	2380216	NAD83	18	473382	5539921	V1		glassy		Nil	Tr py	black to dark grey rock, min along fractures
P447403	Grab	2380216	NAD83	18	473556	5539979	V1		glassy		Nil	Tr py	
P447404	Grab	2371769	NAD83	18	472373	5541243	V1				Nil	Tr py	Boulder

SampNum	SampType	Claim_Num	Datum	Zone	east_83	north_83	MajorU	MinorU	Texture	Structure	Alteration	Mineralization	Comments
P447406	Grab	2163403	NAD83	18	471711	5540851	Qtz	V3B			Nil	py-1%	pillowed
P447407	Grab	2311544	NAD83	18	470037	5535155	V2J				Nil	Tr py	
P447408	Grab	2367900	NAD83	18	472035	5536072	I3A					Tr py	
P447409	Grab	2367900	NAD83	18	472035	5535953	Qtz	V2J			Nil		
P447412	Grab	2367901	NAD83	18	472646	5536226	V2J				Nil	Tr-1% py	Boulder, min along fractures
P447414	Grab	2367901	NAD83	18	472517	5536237	Qtz	Tourm				35% Tourm, Nil Py	Quartz tourmaline vein
P447415	Grab	2321949	NAD83	18	474045	5537316	V3B			wk Fol	Nil	5% diss, mg py	mineralization along fractures
P447416	Grab	2367893	NAD83	18	474666	5535072	V3B	V2J			Nil	Tr py diss	
P447418	Grab	2385335	NAD83	18	472007	5538432							
P447419	Grab	2038580	NAD83	18	476845	5537218	Qtz				Nil	Nil	mostly qtz minor country rock V3B
P447420	Grab	2038579	NAD83	18	476700	5537094	Gph				Nil	5% py	
P447421	Grab	2389161	NAD83	18	475723	5533827	Qtz-Ank				ms Ank	Tr py	
P447422	Grab	2389161	NAD83	18	475848	5533971	V2J				Nil	Tr py	
P447423	Grab	2389161	NAD83	18	475717	5533914					Nil	Tr py	
P447424	Grab	2389161	NAD83	18	475671	5533860	V2J				Nil	Tr py	
P447425	Grab	2367962	NAD83	18	478224	5538702	Qtz				Host rock stg Ank	10% cpy nodules	qtz V with cpy blebs, ~10%, Ank and diss fg py
P447426	Channel	2367962	NAD83	18	478181	5538729	V2J				mod Ank	1% diss py	Moby Dick Norht, Ank V2J some qtz V
P447427	Channel	2367962	NAD83	18	478181	5538729	V2J		bx		mod-stg Ank	Tr py	Moby Dick Norht, qtz flooding forming bx matrix
P447428	Channel	2367962	NAD83	18	478181	5538729	V2J		bx		stg Ank, Ser	1% py	Moby Dick Norht, 40% qtz
P447429	Grab	2367962	NAD83	18	478181	5538729	V2J		bx		stg Ank, Ser	1% py	Moby Dick Norht, 60% qtz
P447430	Grab	2367962	NAD83	18	478181	5538729	V2J		bx		stg Ank, Ser	1% py	Moby Dick Norht, 20% qtz
P447431	Grab	2367962	NAD83	18	478181	5538729	V2J		bx		mod Ank	1% py	Moby Dick Norht, 5% qtz
P447432	Grab	2367962	NAD83	18	478181	5538729	V2J		bx		mod Ank	1% py	Moby Dick Norht, 60% qtz
P447433	Grab	2367962	NAD83	18	478181	5538729	V2J		bx		mod Ank	1% py	Moby Dick Norht, 60% qtz
P447434	Grab	2367962	NAD83	18	478181	5538729	V2J		bx		stg Ank, tourm	1% py	Moby Dick Norht, 10% tourm in qtz V, 60% qtz
P447435	Grab	2367962	NAD83	18	478224	5538702	V2J				wk Ank along fractures	Tr py	Moby Dick South
P447436	Grab	2367962	NAD83	18	478224	5538702	V2J				wk Ank along fractures	3% py	Moby Dick South 5% qtz
P447437	Grab	2367962	NAD83	18	478224	5538702	V2J				wk Ank along fractures	Tr py	Moby Dick South 5% qtz
P447438	Grab	2367962	NAD83	18	478224	5538702	V2J				wk Ank along fractures	Tr py	Moby Dick South
P447439	Grab	2367962	NAD83	18	478224	5538702					wk Ank along fractures	2% py	Moby Dick South

Appendix IV - Sample Location Maps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Kilometers
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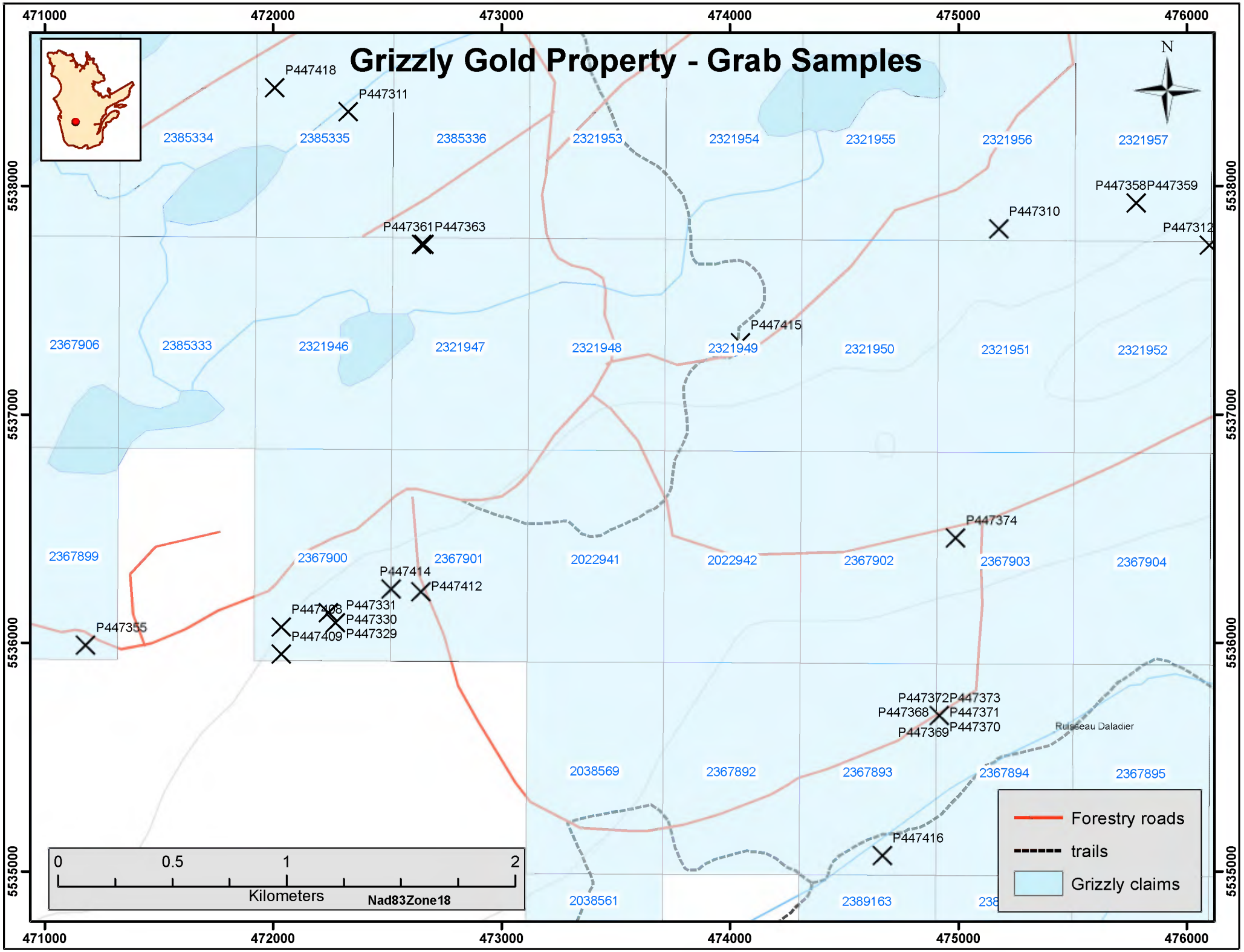
Forestry roads
trails
Grizzly claims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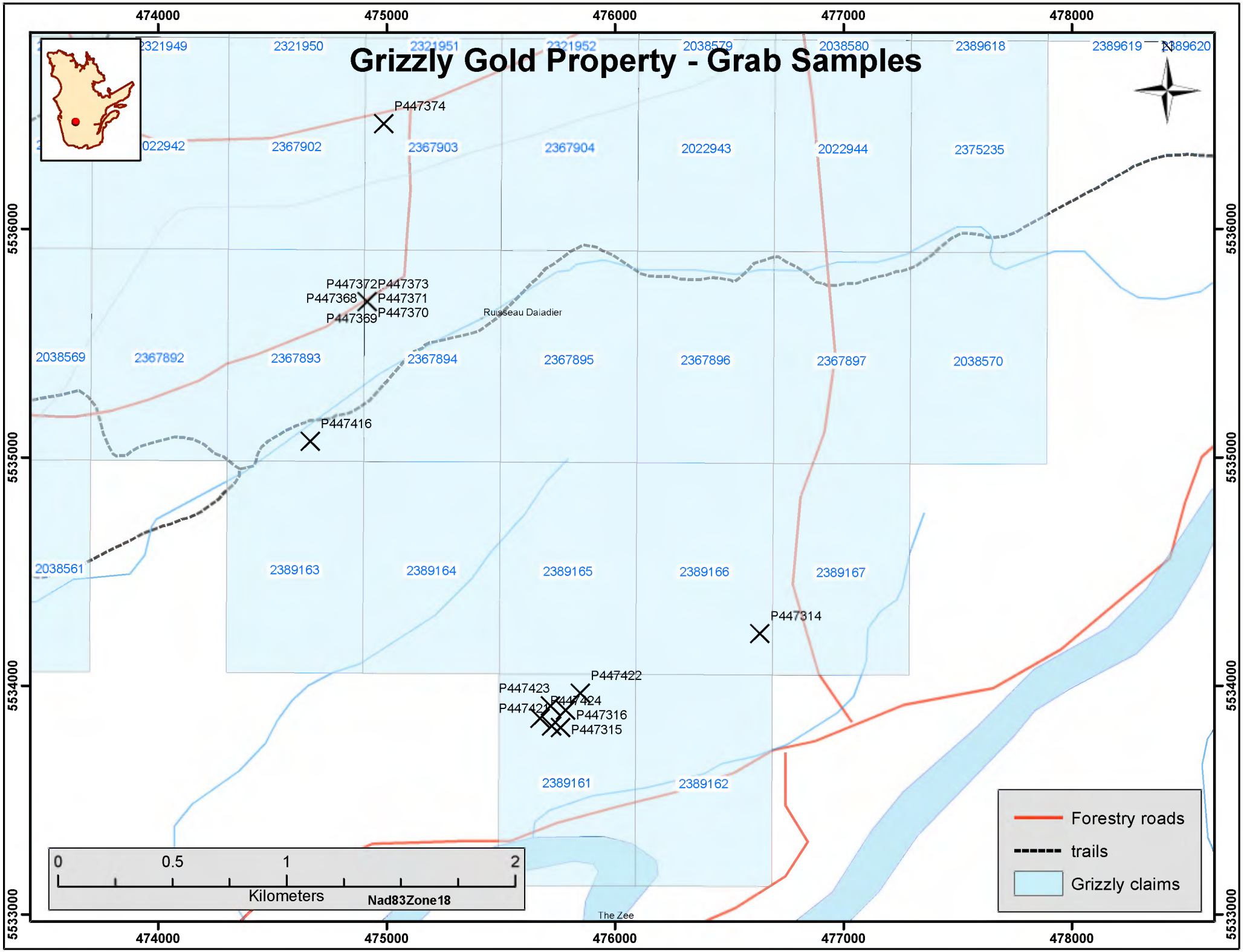
Kilometers
Nad83Zone18
Forestry roads
trails
Grizzly claims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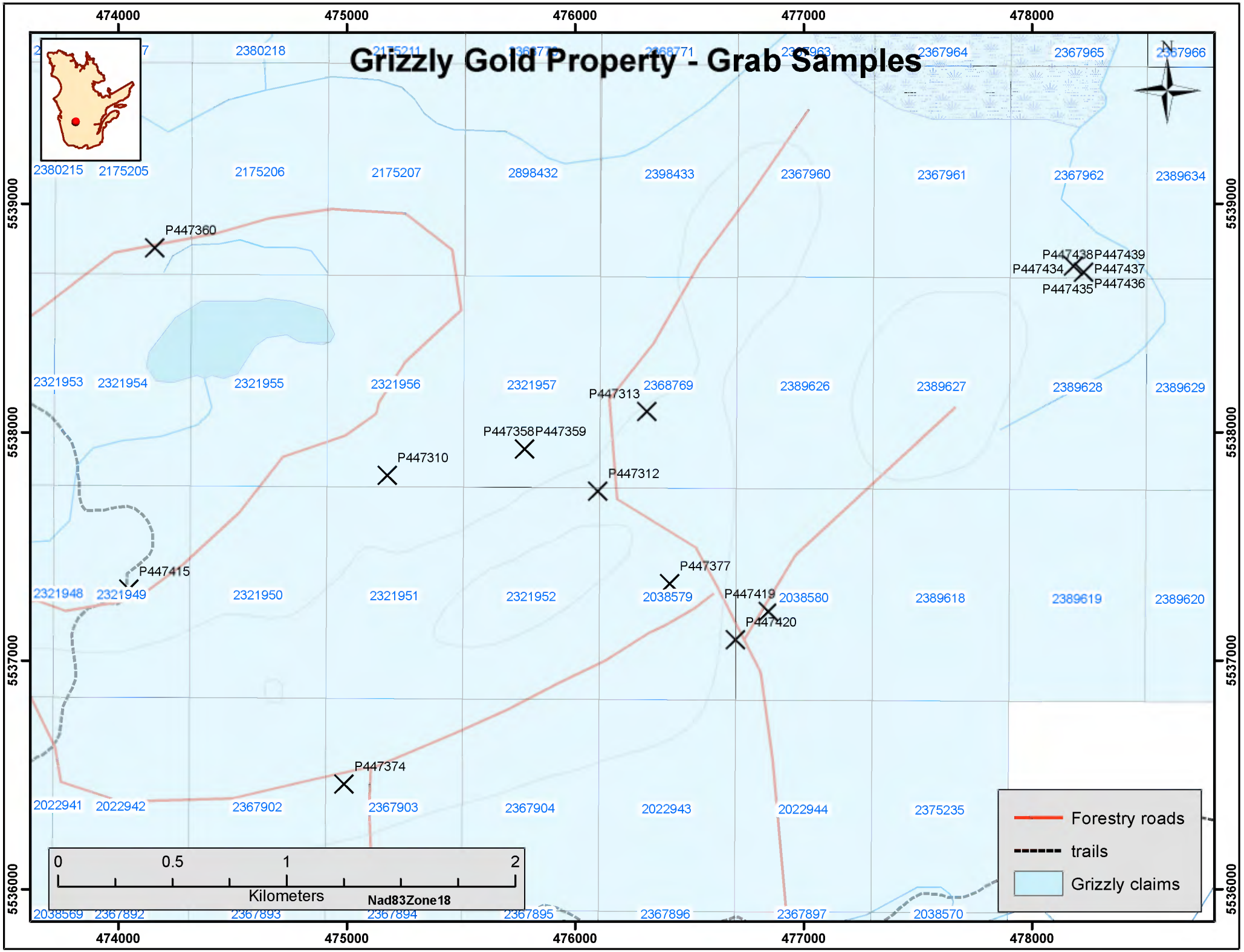
2
Kilometers
Nad83Zone18
Forestry roads
trails
Grizzly claims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Kilometers
Nad83Zone18
Forestry roads
trails
Grizzly claims