

Ministry of Energy, Mines & Petroleum Resources
Mining & Minerals Division
BC Geological Survey

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Prospecting

TOTAL COST: 19,491.69

AUTHOR(S): Patrick Kluczny, B.Sc., P.Geol.

SIGNATURE(S):



NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): Not required

YEAR OF WORK: 2018

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): Event Number 5724822 (January 2, 2019)

PROPERTY NAME: Golden Frac Sand South Property

CLAIM NAME(S) (on which the work was done): CR 1, CR 2

COMMODITIES SOUGHT: Silica, Frac Sand

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 082N 099 (Zim/Solar)

MINING DIVISION: Golden

NTS/BCGS: 82N/07

LATITUDE: 51 ° 13 '45 " LONGITUDE: 116 ° 52 '11 " (at centre of work)

OWNER(S):

1) Adrian Lamoureux (92 Resources)

2)

MAILING ADDRESS:

Suite 1400-1111 W. Georgia Street

Vancouver, British Columbia V6C 4M3

OPERATOR(S) [who paid for the work]:

1) 92 Resources Corp.

2)

MAILING ADDRESS:

Suite 1400-1111 W. Georgia Street

Vancouver, British Columbia V6C 4M3

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):

quartzite, quartz-sandstone, Ordovician, Mount Wilson Formation, bedded, silica, frac sand

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: Report number 35271 (Lindinger, 2015)

Report number 37402 (Kluczny, 2018)

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping _____			
Photo interpretation _____			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic _____			
Electromagnetic _____			
Induced Polarization _____			
Radiometric _____			
Seismic _____			
Other _____			
Airborne _____			
GEOCHEMICAL (number of samples analysed for...)			
Soil _____			
Silt _____			
Rock _____			
Other _____			
DRILLING (total metres; number of holes, size)			
Core _____			
Non-core _____			
RELATED TECHNICAL			
Sampling/assaying _____			
Petrographic _____			
Mineralographic _____			
Metallurgic _____			
PROSPECTING (scale, area) 1:50,000, approx. 1,000 ha		CR 1, CR 2	19,491.69
PREPARATORY / PHYSICAL			
Line/grid (kilometres) _____			
Topographic/Photogrammetric (scale, area) _____			
Legal surveys (scale, area) _____			
Road, local access (kilometres)/trail _____			
Trench (metres) _____			
Underground dev. (metres) _____			
Other _____			
		TOTAL COST:	19,491.69

92 RESOURCES CORP.
2018 MAPPING AND SAMPLING
ON THE GOLDEN FRAC SAND SOUTH PROPERTY

EAST OF GOLDEN, BRITISH COLUMBIA
Golden Mining Division

CR 1; CR 2

Geographic Coordinates
51° 14' 03" N
116° 52' 50" W

NTS Sheet 82N/07

Owner & Operator:	92 Resources Corp. Suite 1400-1111 W. Georgia Street Vancouver, British Columbia V6C 4M3
Consultant:	Dahrouge Geological Consulting Ltd. 18, 10509 - 81 Avenue Edmonton, Alberta T6E 1X7
Authors:	P. Kluczny, B.Sc., P.Geol.
Date Submitted:	April 2, 2019

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1.**INTRODUCTION**

In 2013, the ZIM FRAC tenure was acquired to cover quartzite of the Mount Wilson Formation along Frenchman's Ridge, located a few kilometers east of Golden, B.C. Additional tenures were added in early 2017 and 2018 to cover further outcrop exposures. Given its exceptional purity, the Mount Wilson Formation appears to have potential for both metallurgical silica and frac sand.

From July 25th to July 28th, 2018, Dahrouge Geological Consulting Ltd. (Dahrouge), on behalf of 92 Resources Corp., conducted a program of geologic mapping and sampling of the Mount Wilson Formation on the newly expanded Golden Frac Sand Property. Approximately 2.5 days were spent mapping and sampling, with a total of 23 in-situ quartzite samples collected from various locations within the Property. This report describes the 2018 exploration and provides an interpretation of the results. The 2018 mapping and sampling program was authorized by Adrian Lamoureux of 92 Resources Corp.

Currently, the overall "Golden Frac Sand Property" consists of two discontinuous sets of mineral tenures. ZIM FRAC and WIL 1-5 are located north of Golden ("Golden Frac Sand Property") and CR 1-2 are located south of Golden ("Golden Frac Sand South Property"). Exploration was completed on both group of claims in 2018; however, since the claims are non-continuous, separate assessment reports are filed for each. This report represents the work completed on the South Property. Costs that are applicable to both reports include labour, food and accommodation, equipment rental, and overhead. The distribution of these costs reflects the amount of field work that was applied to each of the group of claims. Roughly 80% of the field time was spent within the southern tenures (CR 1-2), with the remaining 20% of field time spent on the northern tenures (ZIM FRAC, WIL 1-5). Accordingly, the costs associated with the exploration program have been divided 80% to the southern tenures and 20% to the northern tenures. A full breakdown of the costs applicable to this part (Golden Frac Sand South Property) is found in Appendix 1.

1.1 GEOGRAPHIC SETTING**1.1.1 Location and Access**

The Golden Frac Sand South Property is located approximately 5 km southeast of Golden, British Columbia (Fig. 1.1). It is adjacent to Highway 95 and a CPR railway (Fig. 1.2).

Golden, with a population of about 3,700, is located near the confluence of the Kicking Horse and Columbia rivers and provides a number of facilities and services. The economy is largely

based on tourism and, to a lesser extent, forestry and mining.

Access to the CR 1 and CR 2 tenures is predominantly via residential roads. First, take Highway 95 south at the BC 95-S exit, just North of downtown Golden. After travelling approximately 12 km, take a left turn onto Austin Road and travel for 250 m before taking a right turn onto Horse Creek Road. Travel Southwest along Horse Creek Road for 400 m before taking a left turn onto Campbell Road. The southernmost boundary of the CR claims run parallel to Campbell Road, and various residential roads run perpendicular to Campbell Road allowing for multiple access points that terminate roughly 1-2 km from the Property. Access to and within the Property is by extensive hiking.

1.1.2 Topography, Vegetation and Climate

The Golden Frac Sand South Property is located in the Rocky Mountain Trench, and more locally, covers parts of the Beaverfoot Range of the western Rocky Mountains. The topography is rugged and mountainous, with elevations ranging from 900 m along the Kicking Horse River to 2,200 m in the southeastern part of the Property.

The Property is located within the Southern Interior Mountains Ecoprovince and Upper Columbia Valley Eco Section. Vegetation primarily consists of Douglas Fir, with lesser Montane Spruce. Portions of the Property have been logged.

The area has a continental climate with cold winters and warm summers, although extremes are likely due to the mountainous terrain. The average daily temperature in the summer ranges from 24 to 25°C and the average overnight temperature in the winter ranges from -10 to -12°C. Annual precipitation can be quite high, with 325.2 mm of rain and 158.7 cm of snowfall, and higher amounts in the surrounding mountains.

1.2 PROPERTY

The ZIM FRAC tenure was originally staked via B.C.'s mineral titles online system by Luke Schuss in May 2013 to cover exposures of Mount Wilson Formation along Frenchman's Ridge. It was later transferred to Zimtu Capital Corp. in early 2014, and later to 92 Resources Corp. (Adrian Lamoureux) in October 2014. The Property was expanded in February 2017, at which point tenure WIL 1-3 were staked online. The tenures, WIL 4 and WIL 5, were respectively staked in January and March 2018 and transferred shortly after to 92 Resources. Similarly, the southern tenures, CR 1 and CR 2, were also staked online in January 2018 by Jody Dahrouge and later transferred to 92 Resources. All the tenures are currently 100% owned and operated by 92 Resources Corp.

The Golden Frac Sand South Property totals 1801.37 ha, with the combined properties totaling 5,133.92 ha.

TABLE 1.1: LIST OF GOLDEN FRAC SAND TENURES

Tenure Name	Tenure Number	Size (ha)	Record Date	New Good To Date
CR 1	1057427	1011.64	2018/JAN/03	2021/JAN/31
CR 2	1057429	789.73	2018/JAN/03	2021/JAN/31
ZIM FRAC	1019452	807.77	2013/MAY/11	2020/JUN/30
WIL 1	1050286	302.61	2017/FEB/24	2021/MAY/31
WIL 2	1050287	1534.98	2017/FEB/24	2020/JUN/30
WIL 3	1050288	566.16	2017/FEB/24	2020/MAY/31
WIL 4	1057472	121.05	2018/JAN/05	2020/MAY/31
WIL 5	1059259	161.50	2018/MAR/13	2021/MAY/31

1.3 HISTORY AND PREVIOUS INVESTIGATIONS

Exploration for silica has been documented since the mid 1990's. Prior to that, the earliest recorded exploration and development consisted of quarrying slate located along the Kicking Horse River east of Golden area in the early 1900's. Some quarrying of dolomite also occurred in the area during the 1940's. In the mid 1950's, International Germandites completed some exploration on the southern end of Frenchman's Ridge, although no economic deposits were discovered. Several tufa deposits have also been explored and developed east of Golden (Rodgers, 2003).

Exploration of the Mount Wilson Formation has been documented on the adjacent Moberly Property since the 1970's (Shanks, 1997). The quarry is currently active and has been recently re-tooled to produce frac sand, having previously supplied a number of silica and sand products.

In 1997, the Dart tenures were staked to cover exposures of the Mount Wilson Formation on Frenchman's Ridge. Published records of this work are not readily available, and these tenures expired in 2005.

Exposures of Mount Wilson Formation north and south of Kicking Horse River were staked by Canadian International Minerals Inc. in 2010 as the "Solar" and "Silicon" tenures. They completed a work program in 2010, which consisted of mapping and sampling quartzite exposures on the tenures (Lindinger, 2010a; 2010b). The formation was found to extend further than illustrated in

Wallace (1980), and significant exposures of Mount Wilson Formation were mapped and sampled at Frenchman's Ridge. Although the laboratory utilized for the corresponding whole rock analyses couldn't complete an accurate silica assay, it was inferred that all of the samples returned over 98% SiO₂. These tenures expired in 2012.

In late 2013, Luke Schuss staked the ZIM FRAC tenure, which covered exposures of the Mount Wilson Formation on Frenchman's Ridge. The tenure was transferred to Zimtu Capital Corp. in February 2014, and later to 92 Resources Corp. in October of that same year.

In 2014, 92 Resources Corp. completed a short exploration program on the ZIM FRAC tenure, which primarily consisted of collecting frac sand and metallurgical silica samples across the 2 km long "west exposure" (Lindinger, 2015). Frac sand samples were first sent to Renaissance Geoscience Services Inc.'s sample preparation facility in Kamloops, B.C., before a select group was sent for proppant characterization testing at Stim-Lab in Duncan, Oklahoma, USA. The silica samples were analysed by ALS G&T in Kamloops, by both whole-rock assay and 63 multi-element analysis. Additionally, boron analyses were completed at the SRC lab in Saskatoon, Saskatchewan. The chemical results were very encouraging, with SiO₂ values ranging from 98.3% to 99% SiO₂, < 0.3% Fe₂O₃ and < 15 ppm B (Lindinger, 2015). Frac sand results were likewise impressive, with 3 of the 4 samples passing initial friability evaluation. Two of the remaining three samples produced an appropriate mesh size fraction and were submitted for compression testing. Both samples passed a 6000 PSI compressibility test, producing 8.1% fines.

In June 2017, Dahrouge Geologic Consulting Ltd. conducted an eight-day geologic mapping and sampling program on the Golden Frac Sand Property. Two known exposures of the Mount Wilson Formation quartzite were targeted, specifically the eastern flank of Frenchman's Ridge and the southern ridgeline of Table Mountain to the east. The project was based in Golden and the property was accessed via four-wheel drive vehicle and helicopter. A total of 60 in-situ quartzite samples were obtained; 53 duplicate samples were also collected to provide material for proppant testing (if the initial ICP assay results were favourable). Eleven high purity SiO₂ samples were later tested for proppant potential by Loring Laboratories in Calgary, but high and inconsistent Boron levels prompted the pulp samples to be sent for reanalysis by Actlabs in Ancaster, Ontario. Of the 11 samples sent for additional testing, 6 showed a suitable friability for frac sand. Overall the results were encouraging and contained suitable percentages in the 20 to 100 mesh size, sphericity ranging from 0.7 to 0.9 and roundness from 0.4 to 0.6. The analytical results were encouraging, with 22 of the 60 samples returning greater than 99.0% SiO₂.

1.4 PURPOSE OF WORK

The work described herein was undertaken to accurately identify the location and extent of the Mount Wilson Formation quartzites throughout the Golden Frac Sand South Property. Samples were primarily collected to determine the unit's potential for metallurgical silica.

1.5 SUMMARY OF WORK

In July 2018, Dahrouge, on behalf of 92 Resources Corp., conducted a program of geologic mapping and sampling of the Mount Wilson Formation on their properties near Golden, British Columbia. Known exposures of quartzite of the Mount Wilson Formation were targeted in the properties. The work completed on the northern property (Golden Frac Sand Property) is a continuation of sampling program on Frenchman's Ridge completed in 2017, while the purpose of sampling on the southern property (Golden Frac Sand South Property) was to assess the extent and purity of the quartzite formation as an additional silica and/or frac sand resource. A total of 2.5 days were spent in the field examining outcrop exposures and collecting samples and 23 samples of in-situ quartzite were obtained at various locations from both properties.

Personnel were based in a motel in Golden, B.C. and access to and from the Property was by four-wheel-drive vehicle through the existing highways and logging roads. Travel within the properties was by extensive hiking.

Approximately 80% of the combined field project was spent examining outcrop exposures and collecting samples on the Golden Frac Sand South Property and 18 samples of in-situ quartzite were obtained at various locations (Figures 1.3 to 1.6). Samples were sent to Activation Laboratories Ltd. located in Ancaster, Ontario and were analysed by Fusion ICP (4LITHO) to determine whole rock and multi-element concentrations (Appendices 2 and 3).

Where possible, representative chip samples of outcrops were collected, although the hardness of the unit made this difficult in some locations. The limited number of samples is a result of the rugged and high relief terrain in the Property area, with some outcrops only accessible by helicopter.

This assessment report will only focus on the results obtained from the work completed on the Golden Frac Sand South Property (tenures CR 1 and CR 2).

2.

REGIONAL GEOLOGY

The Golden Frac Sand South Property is located within the Rocky Mountain Physiographic Region of the North American Foreland Belt. The belt primarily consists of weakly metamorphosed late Proterozoic and Paleozoic marine sediments attributed to the North American miogeocline. The Golden area is located in the southern part of the Rocky Mountain Trench, a regional scale NNW-trending extensional fault zone that extends from Montana to near the Yukon border. Mesozoic intrusives and related hydrothermal occurrences are rare east of the Rocky Mountain Trench, and metamorphic grades tend to increase to the west. Regionally, the trench is host to a number of Paleozoic alkaline intrusives, which have been exploited for a number of commodities, including base, precious and rare metals. The area east of the trench typically hosts bedded industrial mineral deposits, including limestone, dolomite, slate, gypsum, magnesite, and silica.

TABLE 1.2: STRATIGRAPHY IN THE GOLDEN AREA

Age	Group/Formation	Lithology
Pleistocene and Recent	Quaternary Deposits	till, alluvium, colluvium
Middle Devonian	Harrogate Formation	dolomite
Middle Devonian	Cedared Formation	dolomite
Upper Ordovician and Lower Silurian	Beaverfoot Formation (Upper Part)	dolomite
Upper Ordovician	Beaverfoot Formation (Whiskey Trail Member)	dolomite
Middle and/or Upper Ordovician	Mount Wilson Formation	quartz sandstone, quartzite
Lower and Middle Ordovician	Glenogle Formation (Upper Part)	siltstone, sandstone, shale
Lower and Middle Ordovician	Glenogle Formation (Lower Part)	shale, argillaceous limestone
Upper Cambrian and Lower Ordovician	McKay Group	limestones, slates
Upper Cambrian	Canyon Creek Formation	slate
Upper Cambrian	Ottertail Formation	limestone
Upper Cambrian	Chancellor Formation (Upper Part)	slate, calcareous slate
Middle and Upper Cambrian	Chancellor Formation (Middle Part)	slate

* Information summarized from Wallace (1980)

The area east of Golden is underlain by Quaternary glacial deposits in low-lying areas, and Cambrian to Devonian clastic and carbonate sedimentary rocks, primarily including dolomite, limestone, shale, slate, and quartz sandstone/quartzite (Figure 2.1). Structure in the area is

dominated by a series of NW-SE trending thrust faults along the edge of the Beaverfoot and Van Horne ranges of the Rocky Mountains. These faults are in turn crosscut by NE-SW trending strike-slip faults, resulting in discontinuous outcrop bands and lenses. A summary of the stratigraphic units in the Golden area is provided in Table 1.2.

3. PROPERTY GEOLOGY

The Golden Frac Sand South Property is primarily underlain by Ordovician clastic and carbonate sedimentary rocks (Fig. 1.3). Lower elevations are underlain by Quaternary glacial deposits.

The Mount Wilson Formation is overlain by the upper Ordovician Beaverfoot Formation, which is further subdivided into the “upper part” and the lower Whiskey Trail Member (Wallace, 1980). The upper part of formation consists of dark grey to light brown-grey, finely crystalline, mottled, cherty dolomite. The lower Whiskey Trail Member consists of dark grey to olive-grey, argillaceous, finely crystalline, platy, recessive dolomite.

The unit of interest, the Ordovician Mount Wilson Formation, occurs on much of the Property as NW-SE trending discontinuous outcrop bands and lenses. It consists of welded quartzite and quartz sandstone and is often very hard and resistant. The quartzite tends to weather light- to medium-grey, with a light- to white-grey fresh colour. The quartzites are typically well-sorted and fine to medium-grained with sub-rounded to rounded grains. Although the full thickness has not yet been determined, the Mount Wilson Formation is estimated to be about 50 m thick in the Property area. To the north, the outcrop bands of Mount Wilson Formation are truncated by a NE-trending thrust fault just north of Moberly Peak. To the south, these discontinuous outcrop bands continue through the southern Property and for many kilometres off the Property, on the east side of Highway 95.

The Mount Wilson Formation is underlain by the lower to middle Ordovician Glenogle Formation, which is divided into an upper and lower part by Wallace (1980). The upper part consists of medium to dark brownish grey siltstone, sandstone, and shale. The lower part consists of dark grey to black shale and argillaceous limestone. The Glenogle Formation is underlain by the upper Cambrian and lower Ordovician MacKay Group, which consists of a package of micritic limestone, slate, and calcareous shale.

A series of significant NW-SE trending thrust faults have been mapped throughout the southern Property (Wallace, 1980). A few smaller NE-SW trending strike-slip faults cross-cut these older thrust faults. The structure on the Property has not yet been examined in detail.

4. RESULTS OF 2018 EXPLORATION

In July 2018, Dahrouge, on behalf of 92 Resources Corp., conducted a program of geologic mapping and sampling of the Mount Wilson Formation on their properties near Golden, British Columbia. The goal of the work described in this report was to accurately identify the location and extent of the Mount Wilson Formation quartzites throughout the Golden Frac Sand South Property. Samples were primarily collected to determine the formation's potential for metallurgical silica.

Eighteen in-situ quartzite samples were obtained at various locations within the Property (Fig.'s 1.3 to 1.6). Analytical results show SiO_2 values ranging from 77.81% to 99.29% with an average of 93.9%; however, despite the lower SiO_2 average, 8 of the 15 samples returned SiO_2 values exceeding 98%. Deleterious element analyses, an important component in silica production potential, showed Fe_2O_3 values ranging from 0.05% to 0.38%, excluding sample 121809, which had an Fe_2O_3 value of 0.72%. The progress of the geologic mapping was slow/difficult due to limited access, high relief and craggy slopes, but the crew was able to collect some data to further constrain the true extent of the Mount Wilson Formation outcrop (Figure 1.3).

Overall there is a more heterogeneity and lower SiO_2 values in the southern property compared to Frenchman's Ridge; however, the distribution of the sample results indicates that pockets of high purity silica (>98%) do exist.

5. DISCUSSION AND CONCLUSIONS

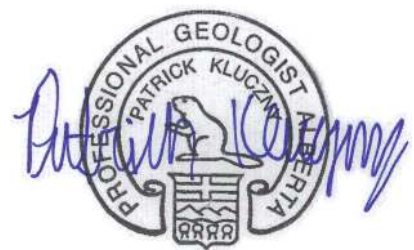
The 2018 exploration program at the Golden Frac Sand South Property focused on evaluating the metallurgical silica potential of the Ordovician Mount Wilson Formation. Analytical results from the 2018 program are summarized below and listed in detail in Appendix 3:

- Average SiO_2 of the 18 samples was 93.9%
- 8 of the 18 samples assayed greater than 98% SiO_2
- 5 of the 18 returned less than 0.1% Fe_2O_3 (important contaminant)

Based on these results, it appears that the Golden Frac Sand South Property is less promising when compared to Frenchman's Ridge within the main Golden Frac Sand Property; however, there are still large portions of these mineral claims that have yet to be explored. Several samples did return SiO_2 values that meet rough metallurgical silica requirements (generally around 99.5%), and it is expected that SiO_2 values may be increased further by experimenting with different sampling and analytical techniques, in addition to attempting pre-analysis magnetic separation techniques.

Based on the 2018 results, further exploration and rock sampling of the southern properties is recommended, as much of the quartzite outcrop within these properties is unsampled and undocumented. Despite the heterogeneity found in this area, the results of this program indicate that there may be pockets of high purity quartzite present, that if further constrained, could increase the resource potential for metallurgical silica in this Property. Proppant (frac sand) testing is also recommended, possibly utilizing a laboratory capable of doing additional test work including crush resistance and acid solubility.

For this southern Property, a helicopter supported program is recommended due to limited access to the Mount Wilson Formation by foot and steep topography, which would allow a more efficient use of sampling time, and more data to be collected. There is enough evidence of high purity SiO_2 outcrop to warrant an additional mapping and sampling program.



P. Kluczny, B.Sc., P.Geol.

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Legend

- ★ Claim Location
- Cities/Towns
- Major Roads
- +— Railway
- Waterbodies

Kilometres
 0 100 200 300 400
 1:7,000,000
 Coordinate System: UTM NAD83, Zone 11

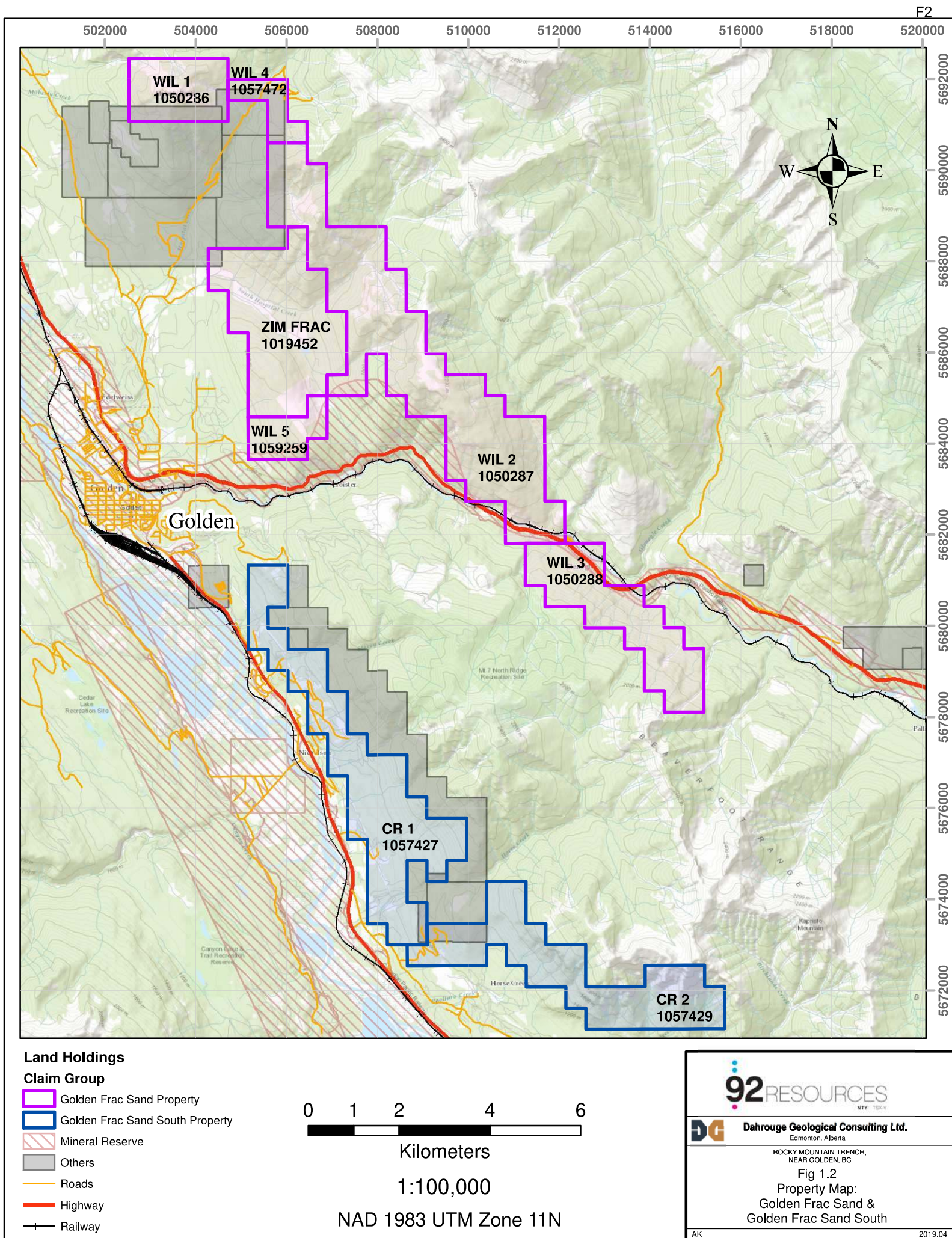
92 RESOURCES
 Edmont, Alberta

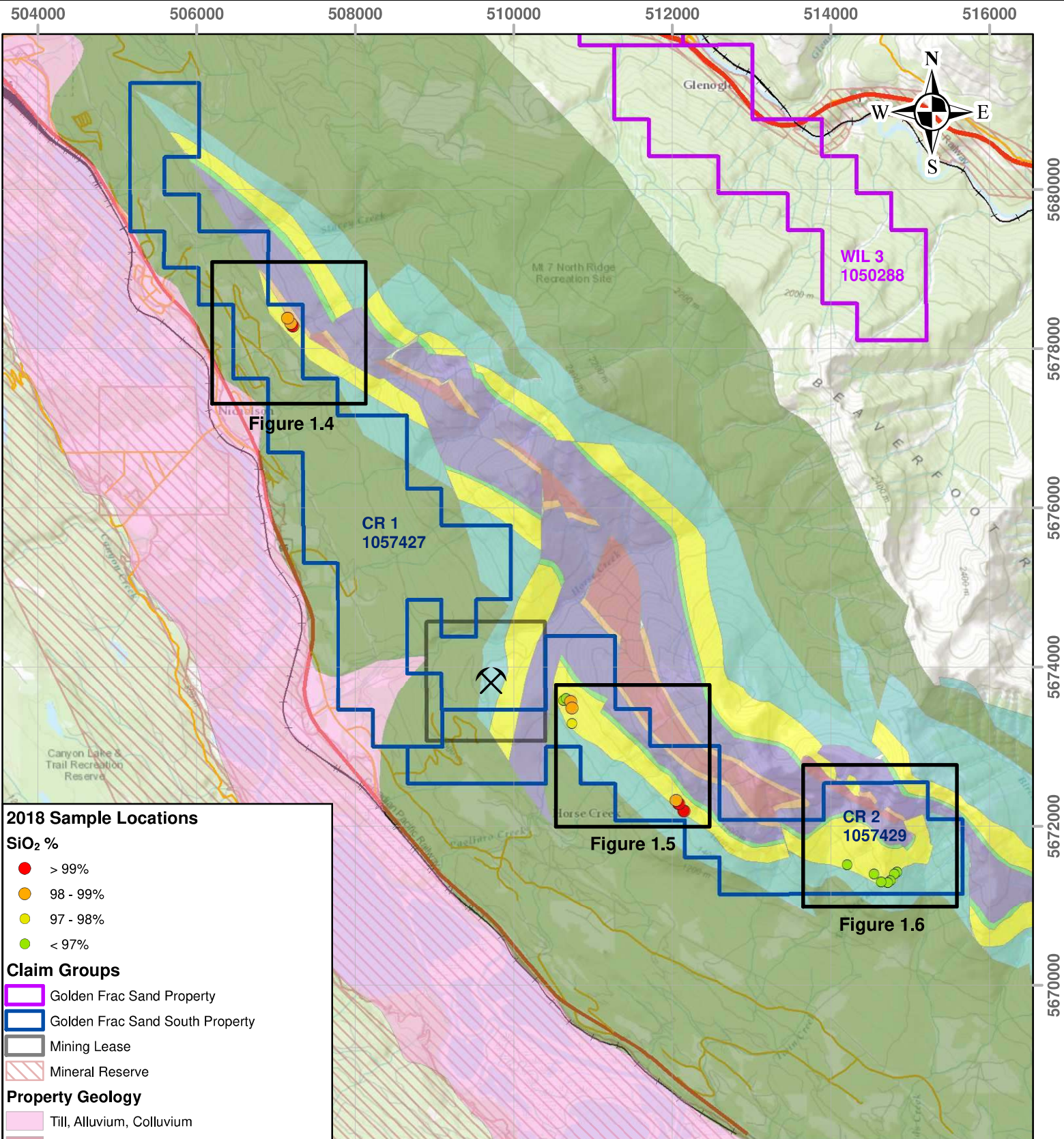
DG Dahrouge Geological Consulting Ltd.
 Edmont, Alberta

GOLDEN FRAC SAND PROPERTY
 SOUTH EASTERN BRITISH COLUMBIA

Fig. 1.1
 Location Map

DH 2018.01





2018 Sample Locations

SiO₂ %

- > 99%
- 98 - 99%
- 97 - 98%
- < 97%

Claim Groups

- Golden Frac Sand Property
- Golden Frac Sand South Property
- Mining Lease
- Mineral Reserve

Property Geology

- Till, Alluvium, Colluvium
- Harrogate Formation
- Cedared Formation
- Beaverfoot Formation (Upper Part)
- Beaverfoot Formation (Whiskey Trail Member)
- Mount Wilson Formation
- Glenogle Formation
- Mckay Group
- Roads
- Highway
- Railway

0 0.5 1 2 3 4

Kilometers

1:65,000

NAD 1983 UTM Zone 11N

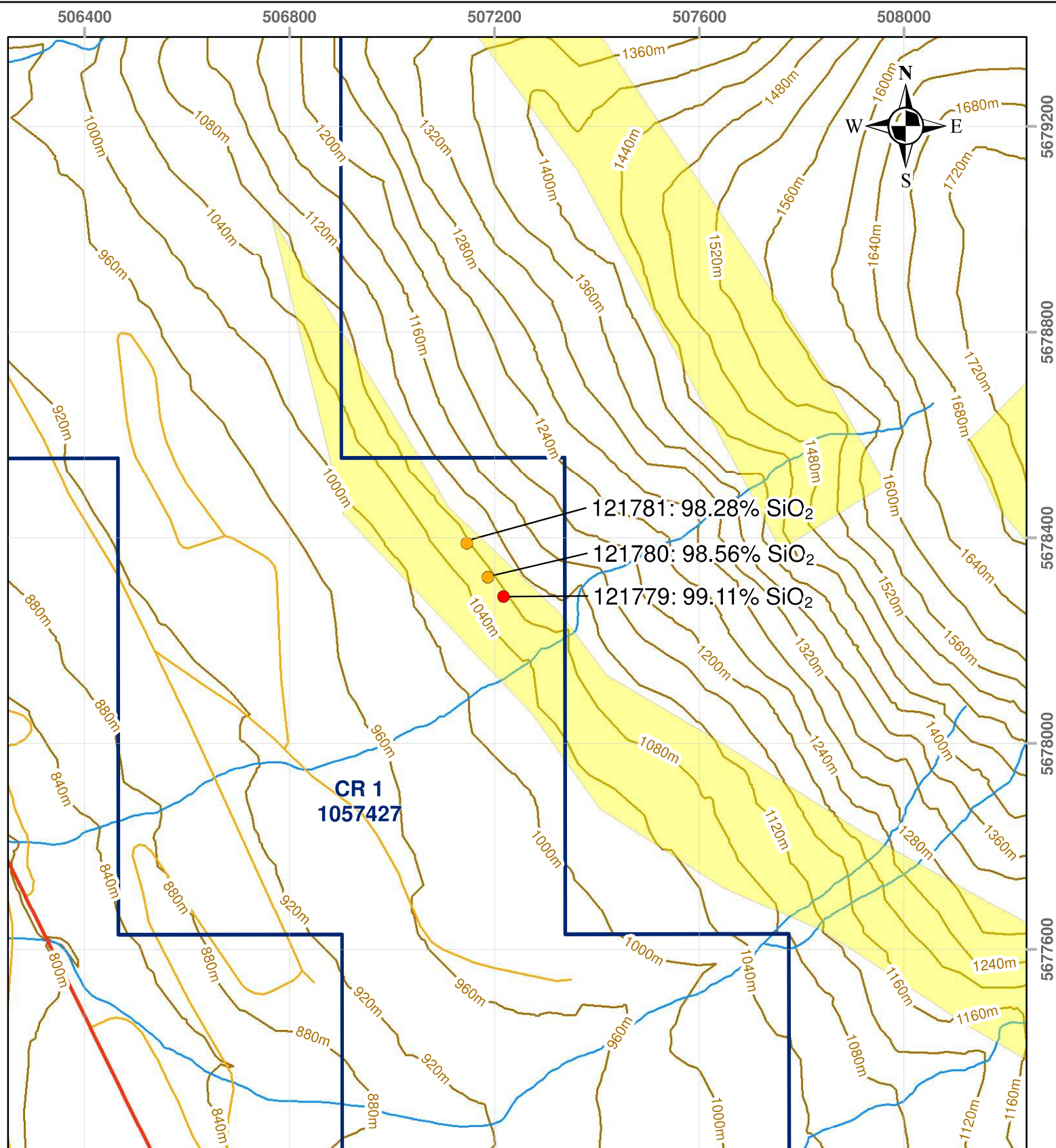
92RESOURCES
NEW TSX-V



Dahrouge Geological Consulting Ltd.
Edmonton, Alberta

ROCKY MOUNTAIN TRENCH,
NEAR GOLDEN, BC

Fig 1.3
Local Geology and Sampling Map



2018 Sample Locations

SiO₂ %

- > 99%
- 98 - 99%
- 97 - 98%
- < 97%

Mineral Tenure

CR 1

Property Geology

Mount Wilson Formation

0 200 400 800
Meters

1:10,000

NAD 1983 UTM Zone 11N

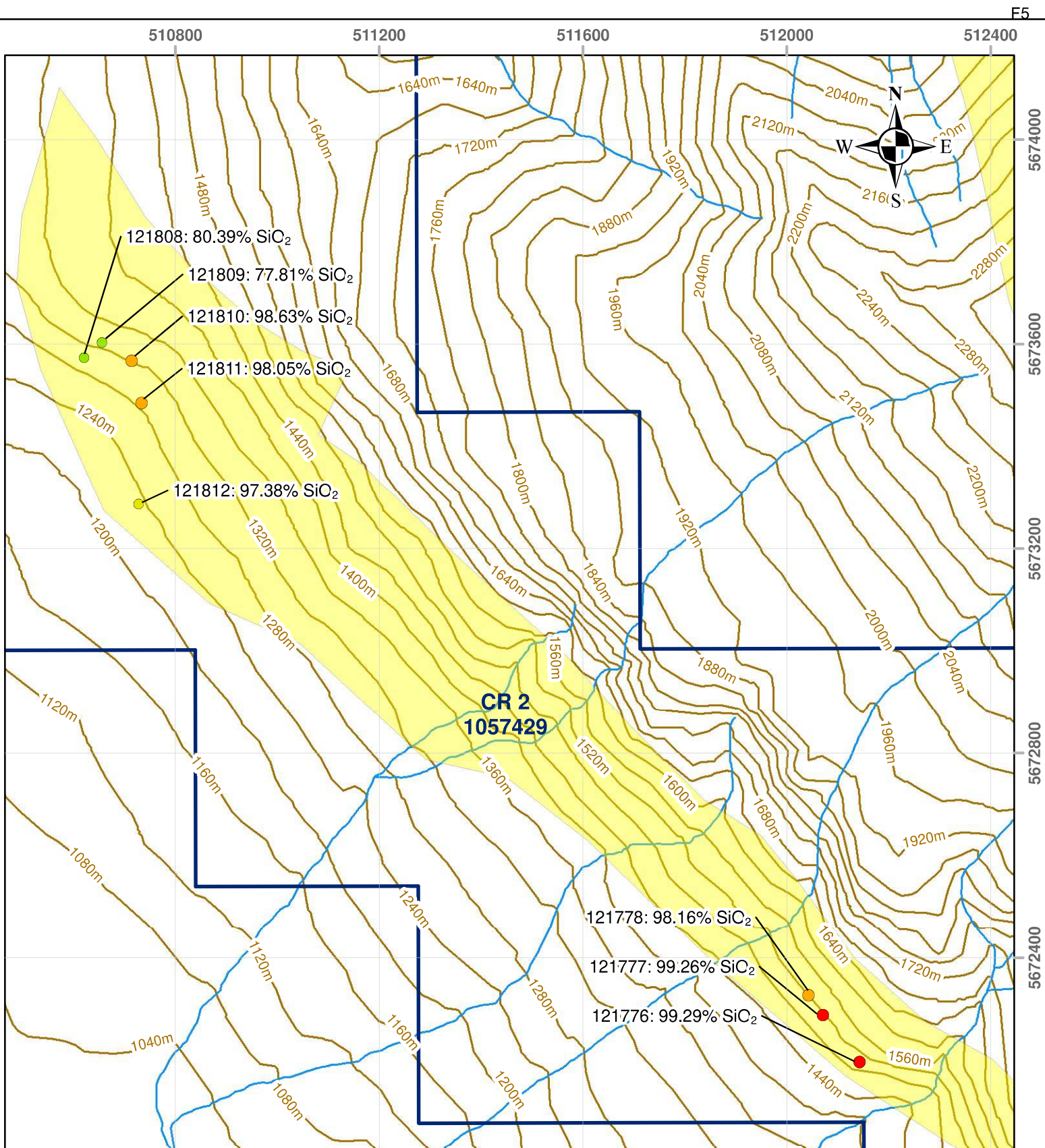
92RESOURCES
NTY TSX-V



Dahrouge Geological Consulting Ltd.
Edmonton, Alberta

ROCKY MOUNTAIN TRENCH,
NEAR GOLDEN, BC

Fig 1.4
CR 1 Samples



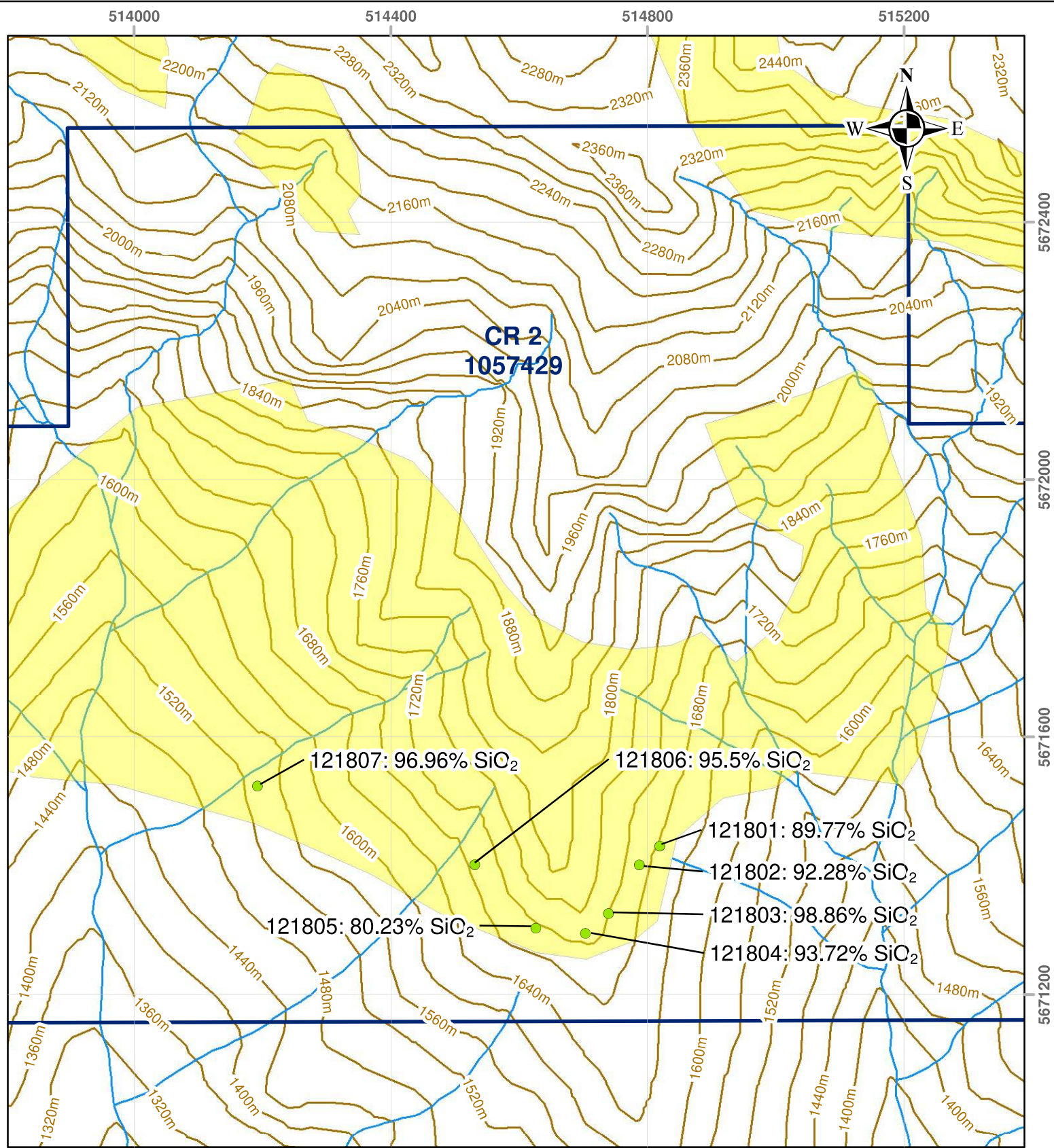
92RESOURCES
N.Y. TSX

DG **Dahrouge Geological Consulting Ltd.**
Edmonton, Alberta

ROCKY MOUNTAIN TRENCH,
NEAR GOLDEN, BC

Fig 1.5
CR 2 Western Samples

AK 2019.04



2018 Sample Locations

SiO₂ %

- > 99%
- 98 - 99%
- 97 - 98%
- < 97%

Mineral Tenure

CR 2

Property Geology

Mount Wilson Formation

0 100 200 400 600

Meters

1:8,000

NAD 1983 UTM Zone 11N

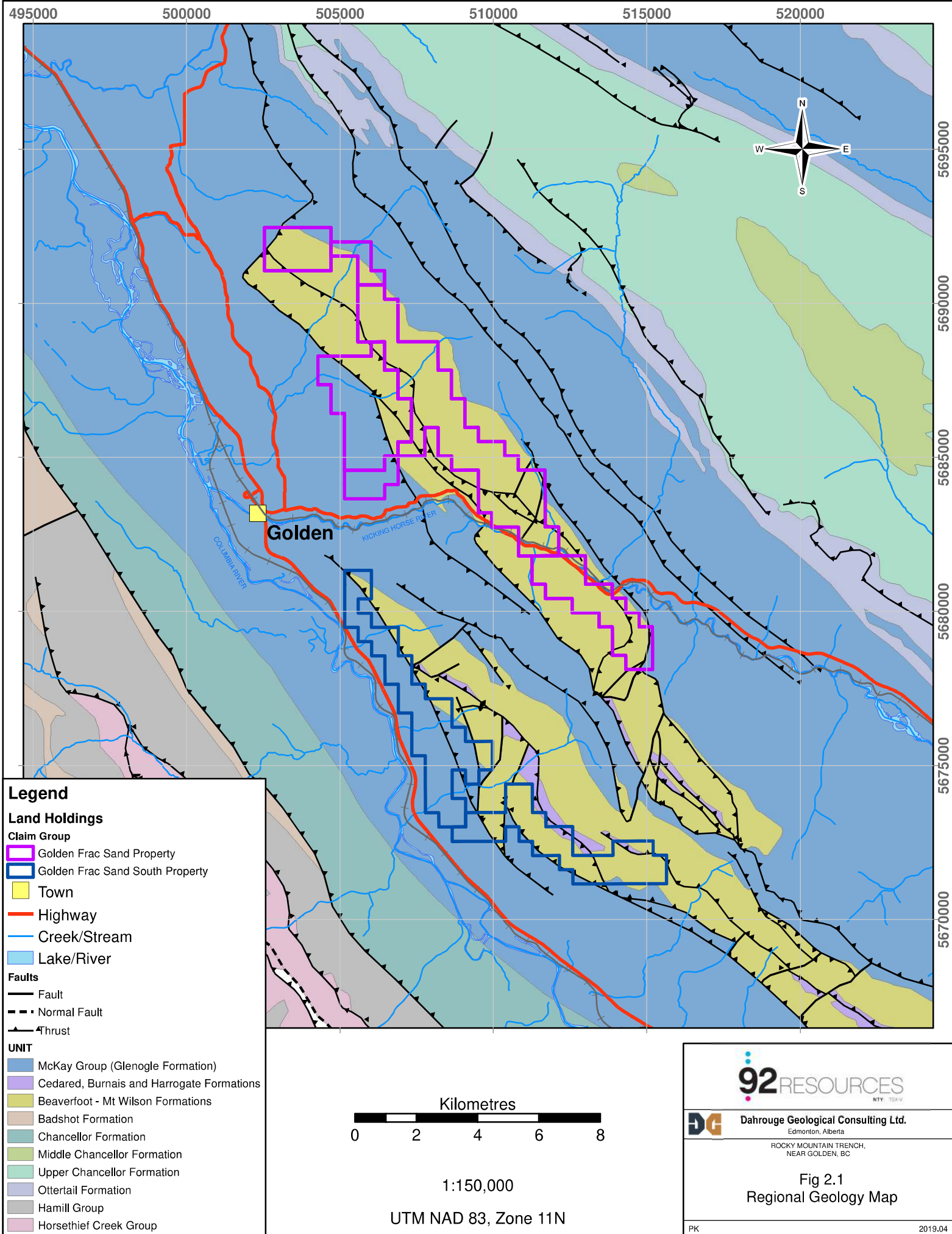
92RESOURCES
NTV: TSX-V



Dahrouge Geological Consulting Ltd.
Edmonton, Alberta

ROCKY MOUNTAIN TRENCH,
NEAR GOLDEN, BC

Fig 1.6
CR 2 Eastern Samples



**APPENDIX 1: ITEMIZED COST STATEMENT FOR THE 2018 EXPLORATION
GOLDEN FRAC SAND SOUTH PROPERTY (EVENT NO. 5724822)**

a) Personnel

P. Kluczny, Sr. Geologist				
35.3	hours	Project management, reporting		
<u>35.25</u>	hours	@ \$ 110.00	\$	3,877.50
A. Klevgaard, Jr. Geologist				
40.0	hours	Fieldwork and Travel (Jul 25-28)		
42.0	hours	Data entry, reporting		
<u>82.00</u>	hours	@ \$ 59.00	\$	4,838.00
S. Dahrouge, Student geologist				
40.00	hours	Fieldwork and Travel (Jul 25-28)		
10.00	hours	Data entry, map creation		
<u>50.00</u>	hours	@ \$ 45.00	\$	2,250.00
B. Campbell, Student Geologist				
40.00	hours	Fieldwork and Travel (Jul 25-28)		
4.00		Data compilation		
<u>44.00</u>	hours	@ \$ 45.00	\$	1,980.00
J. Pearson, Student Geologist				
45.8	hrs	Project preparation, data entry, map creation		
<u>45.75</u>	hrs	@ \$ 45.00	\$	2,058.75
M. Honda-McNeil, Student Geologist				
16.0	hrs	Project preparation, data entry, map creation		
<u>16.00</u>	hrs	@ \$ 45.00	\$	720.00
J. Holman, Office Manager				
0.5	hrs	Bookings, support		
<u>0.50</u>	hrs	@ \$ 47.25	\$	23.63
Administrative Support and Supplies				
223.50	hrs	Administrative support and supplies		
<u>223.50</u>	hrs	@ \$ 2.00	\$	447.00
Subtotal:			\$	16,194.88
GST: 5.00%			0.05 \$	809.74
Total:			\$	17,004.62
Worktime Distribution (80%)			0.8 \$	13,603.70

FIELD WORK SUMMARY:

Golden Frac Sand Prospecting & Rock/Sediment Sampling, July 25-28, 2018

Claims ZIM FRAC; WIL 1; WIL 2; WIL 3; WIL 4; WIL 5; CR1; CR2

23 rock samples collected

Field Personnel: A. Klevgaard, S. Dahrouge, B. Campbell, J. Mallet

Many of the costs associated with this project are shared with Event Number 5727728. Shared costs were calculated by multiplying each itemized cost by a ratio corresponding to the fraction of total time spent completing work on each set of properties (80% Event Number 5724822, 20% Event No. 5727728). Actual assay costs are documented.

b) Food and Accommodation (Tax Included)

16	man-days	@	\$	70.00	Meals (travel days)	\$	1,120.00
9	man-days	@	\$	198.57	Accommodations	\$	1,787.10
Total:						\$	2,907.10
Worktime Distribution (80%)						0.8	\$ 2,325.68

c) Transportation

					Truck Rental	\$	572.00
					Fuel	\$	306.07
					Fuel GST	\$	15.30
Total:						\$	893.37
Worktime Distribution (80%)						0.8	\$ 714.70

d) Instrument Rental

					Software (ArcGIS)	\$	420.00
					GPS (2)	\$	32.00
					Laptops (1)	\$	40.00
					Radios (2)	\$	9.00
Total:						\$	501.00
Worktime Distribution (80%)						0.8	\$ 400.80

e) Drilling

N/A

f) Analyses**Actlabs (23 Samples Total, 18 on South Property)**

(18 wholerock samples, 18 trace element sample analyses, 0 Boron sample analysis)

18	Samples	@	\$	5.50	Crush and Split (RX7)	\$	99.00
18	Samples	@	\$	18.75	Pulverize ceramic (RX5)	\$	337.50
0	Samples	@	\$	20.50	5D-Peroxide Boron-MS	\$	-
18	Samples	@	\$	73.75	4LITHO (11+)	\$	1,327.50
					GST (5%)	\$	88.20

Actual Total:						\$	1,852.20
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g) Other

					Fees		10.00
					Courier and Shipping		97.12
					Shipping HST (13%)		12.63
					Supplies		623.52
Total:						\$	743.27
Worktime Distribution (80%)						0.8	\$ 594.61

Final Total (80% + actual analytical cost):						\$	19,491.69
--	--	--	--	--	--	-----------	------------------



P. Kluczny, B.Sc., P. Geol.

Edmonton, Alberta
April 2, 2019

APPENDIX 2: ANALYTICAL PROCEDURES – ACTLABS

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4B - Lithium Metaborate/Tetraborate Fusion - ICP

Samples are prepared and analyzed in a batch system. Each batch contains a method reagent blank, certified reference material and 17% replicates. Samples are mixed with a flux of lithium metaborate and lithium tetraborate and fused in an induction furnace. The molten melt is immediately poured into a solution of 5% nitric acid containing an internal standard, and mixed continuously until completely dissolved (~30 minutes). The samples are run for major oxides and selected trace elements (Code 4B) on a combination simultaneous/sequential Thermo Jarrell-Ash ENVIRO II ICP or a Varian Vista 735 ICP. Calibration is performed using 7 prepared USGS and CANMET certified reference materials. One of the 7 standards is used during the analysis for every group of ten samples.

Totals should be between 98.5% and 101%. If results come out lower, samples are scanned for base metals. Low reported totals may indicate sulphate being present or other elements like Li which won't normally be scanned for. Samples with low totals however are automatically re-fused and reanalyzed.

Fusion ICP

Oxide	Detection Limit (%)
Al ₂ O ₃	0.01
CaO	0.01
Fe ₂ O ₃	0.01
K ₂ O ₃	0.01
MgO	0.01
MnO	0.001
Na ₂ O	0.01
P ₂ O ₅	0.01
SiO ₂	0.01
TiO ₂	0.001
Loss on Ignition	0.01

Trace Elements

Element	Detection Limit (ppm)
Ba	2
Be	1
Sc	1
Sr	1
V	5
Y	1
Zr	2

Code 4B options:

Code 4B1 : recommended for accurate levels of base metals (Cu, Pb, Zn, Ni and Ag) .

Code 4B-INAA : recommended for As, Sb, high W >100 ppm and Cr > 1,000 ppm.

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4B2 - Research - Lithium Metaborate/Tetraborate Fusion - ICP/MS

Samples fused under code 4B2 are diluted and analyzed by Perkin Elmer Sciex ELAN 6000, 6100 or 9000 ICP/MS. Three blanks and five controls (three before the sample group and two after) are analyzed per group of samples. Duplicates are fused and analyzed every 15 samples. Instrument is recalibrated every 40 samples.

Code 4B2-Research Elements and Detection Limits (ppm)

Element	Detection Limit	Upper Limit	Element	Detection Limit	Upper Limit	Element	Detection Limit	Upper Limit
Ag	0.5	100	Hf	0.1	1,000	Sn	1	1,000
As	5	2,000	Ho	0.01	1,000	Sr	2	10,000
Ba	3	300,000	In	0.1	200	Ta	0.01	500
Bi	0.1	2,000	La	0.05	2,000	Tb	0.01	1,000
Ce	0.05	3,000	Lu	0.002	1,000	Th	0.05	2,000
Co	1	1,000	Mo	2	100	Tl	0.05	1,000
Cr	20	10,000	Nb	0.2	1,000	Tm	0.005	1,000
Cs	0.1	1,000	Nd	0.05	2,000	U	0.01	1,000
Cu	10	10,000	Ni	20	10,000	V	5	5,000
Dy	0.01	1,000	Pb	5	10,000	W	0.5	5,000
Er	0.01	1,000	Pr	0.01	1,000	Y	0.5	1,000
Eu	0.005	1,000	Rb	1	1,000	Yb	0.01	1,000
Ga	1	500	Sb	0.2	200	Zn	30	10,000
Gd	0.01	1,000	Sm	0.01	1,000	Zr	1	10,000
Ge	0.5	500						

Typical ICP/MS Standards Analysis (119 measurements)

Element	W2	Cert.	Element	W2	Cert.	Element	W2	Cert.	Element	W2	Cert.
V	256	262	Y	21	24	Ce	24	24	Yb	2.06	20.5
Cr	90	93	Zr	99	94	Pr	2.5	5.9?	Lu	0.33	0.33
Co	44	44	Nb	7.5	7.9	Nd	14	14	Hf	2.64	2.56
Ni	67	70	Mo	0.7	0.6	Sm	3.38	3.25	Ta	0.5	0.5
Cu	105	103	Ag	<0.5	0.05	Eu	1.1	1.1	W	<0.2	0.3
Zn	72	77	In	<0.2	-	Gd	3.5	3.6	Tl	0.1	0.2
Ga	18	20	Sn	<0.5	-	Tb	0.62	0.63	Pb	8	9.3
Ge	2	1	Sb	0.78	0.79	Dy	3.8	3.8	Bi	<0.05	0.03
As	<5	1.24	Cs	0.95	0.99	Ho	0.76	0.76	Th	2.3	2.5
Rb	20	20	Ba	164	182	Er	2.3	2.5	U	0.49	0.53
Sr	193	194	La	11.3	11.4	Tm	0.32	0.38			

Code 4B2-Research options:

4B2-ResearchQuant: Although intended primarily for unmineralized samples, mineralized samples can be analyzed. However data may be semiquantitative for chalcophile elements (Ag, As, Bi, Co, Cu, Mo, Ni, Pb, Sb, Sn, W and Zn).

A 1 g sample is digested with aqua regia and diluted to 250 ml volumetrically. Appropriate international reference materials for the metals of interest are digested at the same time. The samples and standards are analyzed on a Varian Vista 735 or a Thermo ICAP 6500 ICP.

Code 4B1: Recommended for accurate levels of base metals (Cu, Pb, Zn, Ni and Ag).

Code 4B-INAA: is recommended for As, Bs, high W >100 ppm and Cr > 1,000 ppm.

Code 5D : recommended for Sn >50 ppm.

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Ultratrace 7 - Peroxide Fusion - ICP and ICP/MS

Ultratrace 7 combines a Sodium Peroxide Fusion with ICP and ICP/MS. All metals are solubilized.

ICP/MS

Fused samples are diluted and analyzed by Perkin Elmer Sciex ELAN 6000, 6100 or 9000 ICP/MS. Fused blank is run in triplicate for every 22 samples. Controls and standards with samples are run after the 22 samples. Fused duplicates are run every 10 samples. Instrument is recalibrated every 44 samples.

ICP/OES

Samples are analyzed with a minimum of 10 certified reference materials for the required analytes, all prepared by sodium peroxide fusion. Every 10th sample is prepared and analyzed in duplicate; a blank is prepared every 30 samples and analyzed. Samples are analyzed using a Varian 735ES ICP and internal standards are used as part of the standard operating procedure.

Code Ultratrace-7 Elements and Detection Limits (ppm)

Element	Detection Limit	Upper Limit	Reported By
Al	0.01%	25%	ICP
As	5	10,000	ICP/MS
B	10	10,000	ICP/MS
Ba	3	10,000	ICP/MS
Be	3	5,000	ICP/MS
Bi	2	5,000	ICP/MS
Ca	0.01%	40%	ICP
Cd	2	5,000	ICP/MS
Ce	0.8	5,000	ICP/MS
Co	0.2	5,000	ICP/MS
Cr	30	10,000	ICP/MS
Cs	0.1	5,000	ICP/MS
Cu	2	10,000	ICP/MS
Dy	0.3	5,000	ICP/MS
Er	0.1	5,000	ICP/MS
Eu	0.1	1,000	ICP/MS
Fe	0.05%	30%	ICP
Ga	0.2	5,000	ICP/MS
Ge	0.7	5,000	ICP/MS
Gd	0.1	5,000	ICP/MS
Hf	10	5,000	ICP/MS
Ho	0.2	1,000	ICP/MS
In	0.2	1,000	ICP/MS
K	0.1%	25%	ICP
La	0.4	10,000	ICP/MS
Li	3	10,000	ICP/MS
Mg	0.01%	30%	ICP
Mn	3	10,000	ICP/MS

Element	Detection Limit	Upper Limit	Reported By
Mo	1	10,000	ICP/MS
Nb	2.4	5,000	ICP/MS
Nd	0.4	5,000	ICP/MS
Ni	10	10,000	ICP/MS
Pb	0.8	5,000	ICP/MS
Pr	0.1	1,000	ICP/MS
Rb	0.4	5,000	ICP/MS
S	0.01%	25%	ICP
Sb	2	5,000	ICP/MS
Se	0.8	5,000	ICP/MS
Si	0.01%	30%	ICP
Sm	0.1	1,000	ICP/MS
Sn	0.5	10,000	ICP/MS
Sr	3	10,000	ICP/MS
Ta	0.2	10,000	ICP/MS
Tb	0.1	1,000	ICP/MS
Te	6	10,000	ICP/MS
Th	0.1	1,000	ICP/MS
Ti	0.01%	25%	ICP
Tl	0.1	1,000	ICP/MS
Tm	0.1	1,000	ICP/MS
U	0.1	10,000	ICP/MS
V	5	10,000	ICP/MS
W	0.7	5,000	ICP/MS
Y	0.1	1,000	ICP/MS
Yb	0.1	1,000	ICP/MS
Zn	25	10,000	ICP/MS

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APPENDIX 3: ASSAY RESULTS – ACTLABS

Quality Analysis ...



Innovative Technologies

Date Submitted: 03-Aug-18
Invoice No.: A18-10320
Invoice Date: 14-Sep-18
Your Reference: ZIM FRAC PROPERTY

Dahrouge Geological Consulting Ltd.
10509-81 Ave.
Suite 18
Edmonton AB T6E 1X7
Canada

ATTN: Jody Dahrouge

CERTIFICATE OF ANALYSIS

23 Rock samples were submitted for analysis.

The following analytical package(s) were requested:

Code 4LITHO (11+) Major Elements Fusion ICP(WRA)/Trace Elements Fusion ICP/MS(WRA4B2)

Code 5D-Peroxide Boron-MS Sodium Peroxide Fusion ICPMS

REPORT **A18-10320**

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

Notes:

We recommend using option 4B1 for accurate levels of the base metals Cu, Pb, Zn, Ni and Ag. Option 4B-INAA for As, Sb, high W >100ppm, Cr >1000ppm and Sn >50ppm by Code 5D. Values for these elements provided by Fusion ICP/MS, are order of magnitude only and are provided for general information. Mineralized samples should have the Quant option selected or request assays for values which exceed the range of option 4B1. Total includes all elements in % oxide to the left of total.

CERTIFIED BY:



Emmanuel Esemé , Ph.D.
Quality Control

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

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Ba	Sr	Y	Zr	Cr	Co	Ni	Cu
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01		1	5	2	2	1	2	20	1	20	10
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS
121776	99.29	0.28	0.12	0.014	0.05	0.19	0.03	0.03	0.030	< 0.01	0.42	100.4	< 1	< 1	< 5	13	< 2	2	89	< 20	< 1	< 20	< 10
121777	99.26	0.49	0.06	0.007	0.07	0.07	0.02	0.09	0.028	< 0.01	0.35	100.4	< 1	< 1	< 5	12	2	1	92	< 20	< 1	< 20	< 10
121778	98.16	0.38	0.05	0.007	0.03	0.04	0.02	0.05	0.014	< 0.01	0.33	99.07	< 1	< 1	< 5	17	< 2	< 1	32	< 20	< 1	< 20	< 10
121779	99.11	0.28	0.08	0.007	0.04	0.06	0.02	0.04	0.018	< 0.01	0.38	100.0	< 1	< 1	< 5	86	4	< 1	45	< 20	< 1	< 20	< 10
121780	98.56	0.41	0.09	0.007	0.04	0.03	0.02	0.07	0.017	< 0.01	0.32	99.55	< 1	< 1	< 5	42	5	< 1	34	< 20	< 1	< 20	< 10
121781	98.28	0.40	0.09	0.007	0.03	0.03	0.02	0.08	0.019	< 0.01	0.41	99.34	< 1	< 1	< 5	37	3	1	78	< 20	< 1	< 20	< 10
121782	99.41	0.41	0.24	0.014	0.03	0.04	0.03	0.02	0.033	< 0.01	0.41	100.6	< 1	< 1	< 5	25	98	1	37	< 20	< 1	< 20	< 10
121783	98.80	0.39	0.08	0.007	0.04	0.02	0.02	0.08	0.014	< 0.01	0.32	99.74	< 1	< 1	< 5	122	9	< 1	18	< 20	< 1	< 20	< 10
121784	99.51	0.42	0.08	0.013	0.03	0.02	0.02	0.05	0.013	< 0.01	0.31	100.5	< 1	< 1	< 5	54	< 2	2	14	< 20	< 1	< 20	< 10
121785	100.1	0.38	0.07	0.014	0.04	0.04	0.02	0.06	0.015	< 0.01	0.29	100.9	< 1	< 1	< 5	66	< 2	2	33	< 20	< 1	< 20	< 10
121786	99.65	0.37	0.09	0.014	0.04	0.05	0.02	0.05	0.014	< 0.01	0.30	100.6	< 1	< 1	< 5	57	4	2	30	< 20	< 1	< 20	< 10
121801	89.77	0.69	0.34	0.019	2.06	3.01	0.04	0.14	0.044	< 0.01	4.63	100.7	< 1	< 1	< 5	15	7	2	59	< 20	< 1	< 20	< 10
121802	92.28	0.46	0.24	0.012	1.21	1.83	0.02	0.09	0.030	< 0.01	3.09	99.24	< 1	< 1	< 5	14	4	2	65	< 20	< 1	< 20	< 10
121803	96.86	0.45	0.22	0.009	0.20	0.28	0.02	0.07	0.026	< 0.01	0.83	98.95	< 1	< 1	< 5	14	< 2	1	56	< 20	< 1	< 20	< 10
121804	93.72	0.66	0.25	0.011	0.97	1.41	0.02	0.16	0.040	< 0.01	2.50	99.72	< 1	< 1	< 5	11	4	2	61	< 20	< 1	< 20	< 10
121805	80.23	0.49	0.38	0.017	3.58	5.64	0.02	0.11	0.028	< 0.01	8.59	99.08	< 1	< 1	< 5	18	10	2	46	< 20	< 1	< 20	< 10
121806	95.50	0.52	0.19	0.011	0.47	0.69	0.02	0.11	0.029	< 0.01	1.35	98.86	< 1	< 1	< 5	17	3	1	61	< 20	< 1	< 20	< 10
121807	96.96	0.44	0.18	0.017	0.39	0.56	0.02	0.06	0.022	< 0.01	1.26	99.91	< 1	< 1	< 5	14	< 2	2	45	< 20	< 1	< 20	< 10
121808	80.39	0.43	0.35	0.016	3.63	5.53	0.02	0.10	0.024	< 0.01	8.65	99.16	< 1	< 1	< 5	13	12	2	49	< 20	< 1	< 20	< 10
121809	77.81	2.73	0.72	0.016	3.12	4.58	0.04	1.72	0.157	0.03	7.50	98.43	2	< 1	12	186	28	5	244	30	< 1	< 20	< 10
121810	98.63	0.59	0.12	0.015	0.10	0.09	0.02	0.12	0.026	< 0.01	0.48	100.2	< 1	< 1	< 5	15	< 2	1	56	< 20	< 1	< 20	< 10
121811	98.05	0.47	0.15	0.008	0.08	0.05	0.02	0.10	0.027	< 0.01	0.43	99.38	< 1	< 1	< 5	11	3	1	50	< 20	< 1	< 20	< 10
121812	97.38	0.51	0.19	0.012	0.47	0.67	0.02	0.10	0.032	< 0.01	1.39	100.8	< 1	< 1	< 5	22	4	1	75	< 20	< 1	< 20	< 10

Analyte Symbol	Zn	Ga	Ge	As	Rb	Nb	Mo	Ag	In	Sn	Sb	Cs	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	30	1	1	5	2	1	2	0.5	0.2	1	0.5	0.5	0.1	0.1	0.05	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1
Method Code	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
121776	< 30	< 1	< 1	7	< 2	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	2.9	5.1	0.51	1.5	0.2	< 0.05	0.2	< 0.1	0.1	< 0.1	< 0.1
121777	< 30	< 1	< 1	< 5	< 2	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	3.3	6.0	0.66	1.9	0.3	0.05	0.1	< 0.1	0.2	< 0.1	< 0.1
121778	< 30	< 1	< 1	< 5	< 2	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	3.9	7.4	0.82	2.7	0.4	0.05	0.2	< 0.1	0.1	< 0.1	< 0.1
121779	< 30	< 1	< 1	6	< 2	< 1	< 2	< 0.5	< 0.2	< 1	0.5	< 0.5	3.2	6.5	0.68	2.0	0.2	< 0.05	< 0.1	< 0.1	0.1	< 0.1	< 0.1
121780	< 30	< 1	< 1	< 5	< 2	< 1	< 2	< 0.5	< 0.2	< 1	0.6	< 0.5	3.7	7.1	0.73	2.2	0.3	< 0.05	0.2	< 0.1	0.2	< 0.1	< 0.1
121781	< 30	< 1	< 1	< 5	< 2	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	3.7	7.5	0.97	2.8	0.3	0.07	0.2	< 0.1	0.2	< 0.1	< 0.1
121782	< 30	< 1	1	10	< 2	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	2.8	4.9	0.53	2.4	0.3	0.08	0.2	< 0.1	0.1	< 0.1	< 0.1
121783	< 30	< 1	< 1	< 5	< 2	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	3.9	6.7	0.78	1.7	0.3	< 0.05	0.2	< 0.1	0.1	< 0.1	< 0.1
121784	< 30	< 1	< 1	< 5	< 2	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	4.4	8.4	0.99	3.5	0.3	0.08	0.3	< 0.1	0.2	< 0.1	< 0.1
121785	< 30	< 1	< 1	< 5	< 2	< 1	3	< 0.5	< 0.2	< 1	< 0.5	< 0.5	3.7	7.2	0.79	3.1	0.3	< 0.05	0.2	< 0.1	0.1	< 0.1	< 0.1
121786	< 30	< 1	< 1	< 5	< 2	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	3.7	7.2	0.86	2.9	0.3	< 0.05	0.1	< 0.1	0.1	< 0.1	< 0.1
121801	< 30	< 1	1	< 5	< 2	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	4.5	7.7	0.87	2.8	0.5	0.12	0.7	< 0.1	0.3	< 0.1	0.2
121802	< 30	< 1	< 1	6	< 2	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	3.0	5.1	0.56	1.8	0.4	0.08	0.3	< 0.1	0.2	< 0.1	0.1
121803	< 30	< 1	< 1	< 5	< 2	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	3.6	5.8	0.57	1.7	0.3	0.06	0.2	< 0.1	0.2	< 0.1	< 0.1
121804	< 30	< 1	< 1	< 5	< 2	1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	3.9	7.4	0.79	2.6	0.4	0.09	0.4	< 0.1	0.3	< 0.1	0.1
121805	< 30	< 1	< 1	< 5	< 2	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	4.2	7.7	0.94	3.2	0.7	0.14	0.5	< 0.1	0.4	< 0.1	0.2
121806	< 30	< 1	< 1	< 5	< 2	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	3.9	6.2	0.66	2.1	0.3	< 0.05	0.2	< 0.1	0.2	< 0.1	< 0.1
121807	< 30	< 1	1	< 5	< 2	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	3.9	6.5	0.61	1.9	0.3	0.06	0.3	< 0.1	0.2	< 0.1	0.1
121808	< 30	< 1	< 1	< 5	< 2	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	2.9	5.8	0.61	2.3	0.4	0.07	0.3	< 0.1	0.3	< 0.1	0.1
121809	< 30	3	< 1	< 5	19	9	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	13.6	23.0	2.39	6.9	1.4	0.29	1.0	0.1	0.8	0.2	0.5
121810	< 30	< 1	1	< 5	< 2	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	3.1	5.6	0.67	1.4	0.3	0.05	0.2	< 0.1	0.1	< 0.1	0.2
121811	< 30	< 1	< 1	27	< 2	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	1.8	3.4	0.37	1.1	0.2	< 0.05	0.1	< 0.1	0.1	< 0.1	< 0.1
121812	< 30	< 1	< 1	< 5	< 2	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	3.8	6.5	0.63	2.0	0.3	0.06	0.2	< 0.1	0.2	< 0.1	0.1

Analyte Symbol	Tm	Yb	Lu	Hf	Ta	W	Tl	Pb	Bi	Th	U	B
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.05	0.1	0.01	0.2	0.1	1	0.1	5	0.4	0.1	0.1	2
Method Code	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS-Na2O2
121776	< 0.05	0.1	< 0.01	2.2	< 0.1	6	< 0.1	< 5	< 0.4	0.5	0.2	
121777	< 0.05	0.1	< 0.01	2.1	< 0.1	1	< 0.1	< 5	< 0.4	0.6	0.2	
121778	< 0.05	< 0.1	< 0.01	0.6	< 0.1	2	< 0.1	< 5	< 0.4	0.6	0.2	
121779	< 0.05	< 0.1	< 0.01	0.9	< 0.1	1	< 0.1	< 5	< 0.4	0.5	0.1	
121780	< 0.05	< 0.1	< 0.01	0.8	< 0.1	2	< 0.1	< 5	< 0.4	0.7	0.2	
121781	< 0.05	< 0.1	< 0.01	1.9	< 0.1	4	< 0.1	< 5	< 0.4	0.8	0.2	
121782	< 0.05	0.1	< 0.01	0.9	< 0.1	< 1	< 0.1	< 5	< 0.4	0.5	0.2	7
121783	< 0.05	< 0.1	< 0.01	0.5	< 0.1	1	< 0.1	< 5	< 0.4	0.6	0.2	8
121784	< 0.05	< 0.1	< 0.01	0.4	< 0.1	7	< 0.1	< 5	< 0.4	0.8	0.2	6
121785	< 0.05	0.1	< 0.01	0.7	< 0.1	2	< 0.1	< 5	< 0.4	0.6	0.2	13
121786	< 0.05	< 0.1	< 0.01	0.8	< 0.1	3	< 0.1	< 5	< 0.4	0.8	0.2	8
121801	< 0.05	0.2	< 0.01	1.5	< 0.1	< 1	< 0.1	< 5	< 0.4	0.8	0.3	
121802	< 0.05	0.1	< 0.01	1.4	< 0.1	2	< 0.1	< 5	< 0.4	0.6	0.2	
121803	< 0.05	0.1	< 0.01	1.2	< 0.1	3	< 0.1	< 5	< 0.4	0.7	0.2	
121804	< 0.05	0.2	< 0.01	1.3	< 0.1	2	< 0.1	< 5	< 0.4	0.8	0.3	
121805	< 0.05	0.1	< 0.01	1.0	< 0.1	1	< 0.1	< 5	< 0.4	0.6	0.2	
121806	< 0.05	0.1	< 0.01	1.1	< 0.1	1	< 0.1	< 5	< 0.4	0.7	0.2	
121807	< 0.05	< 0.1	< 0.01	1.0	< 0.1	< 1	< 0.1	< 5	< 0.4	0.6	0.2	
121808	< 0.05	0.2	< 0.01	1.2	< 0.1	1	< 0.1	< 5	< 0.4	0.8	0.2	
121809	0.08	0.5	0.08	5.2	0.7	2	< 0.1	7	< 0.4	3.4	0.9	
121810	< 0.05	0.1	< 0.01	1.7	< 0.1	< 1	< 0.1	< 5	< 0.4	0.7	0.2	
121811	< 0.05	0.1	< 0.01	1.1	< 0.1	1	< 0.1	< 5	< 0.4	0.6	0.2	
121812	< 0.05	0.2	< 0.01	1.5	< 0.1	3	< 0.1	< 5	< 0.4	0.7	0.2	

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Ba	Sr	Y	Zr	Cr	Co	Ni	Cu
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	2	2	1	2	20	1	20	10
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS
GXR-1 Meas																							
GXR-1 Cert																							
DNC-1 Meas	48.29	18.51	9.98	0.150	10.14	11.64	1.93	0.23	0.480	0.07			32		152	109	142	16	38	280	56	260	100
DNC-1 Cert	47.15	18.34	9.97	0.150	10.13	11.49	1.890	0.234	0.480	0.070			31		148	118	144.0	18.0	38	270	57	247	100
GBW 07113 Meas	71.14	12.83	3.20	0.140	0.14	0.61	2.47	5.42	0.280	0.03			5	4	< 5	495	40	46	386				
GBW 07113 Cert	72.8	13.0	3.21	0.140	0.160	0.590	2.57	5.43	0.300	0.0500			5.00	4.00	5.00	506	43.0	43.0	403				
GXR-4 Meas																							
GXR-4 Cert																							
LKSD-3 Meas																				80	30	50	30
LKSD-3 Cert																				87.0	30.0	47.0	35.0
TDB-1 Meas																				250		90	340
TDB-1 Cert																				251		92	323
W-2a Meas	52.55	15.63	10.91	0.160	6.34	11.20	2.24	0.64	1.090	0.12			35	< 1	272	176	193	19	93	90	44	70	110
W-2a Cert	52.4	15.4	10.7	0.163	6.37	10.9	2.14	0.626	1.06	0.140			36.0	1.30	262	182	190	24.0	94.0	92.0	43.0	70.0	110
W-2a Meas																				90	43	70	110
W-2a Cert																				92.0	43.0	70.0	110
SY-4 Meas	50.08	20.38	6.14	0.110	0.51	8.22	6.89	1.67	0.290	0.13			1	3	< 5	353	1201	117	534				
SY-4 Cert	49.9	20.69	6.21	0.108	0.54	8.05	7.10	1.66	0.287	0.131			1.1	2.6	8.0	340	1191	119	517				
CTA-AC-1 Meas																							60
CTA-AC-1 Cert																							54.0
BIR-1a Meas	48.50	15.70	11.28	0.170	9.72	13.70	1.81	0.02	0.970	0.02			43	< 1	331	10	108	14	17	390	51	170	120
BIR-1a Cert	47.96	15.50	11.30	0.175	9.700	13.30	1.82	0.030	0.96	0.021			44	0.58	310	6	110	16	18	370	52	170	125
NCS DC86312 Meas																							
NCS DC86312 Cert																							
NCS DC70009 (GBW07241) Meas																							980
NCS DC70009 (GBW07241) Cert																							960
OREAS 100a (Fusion) Meas																					17		170
OREAS 100a (Fusion) Cert																					18.1		169
OREAS 101a (Fusion) Meas																					49		420
OREAS 101a (Fusion) Cert																					48.8		430
OREAS 101b (Fusion) Meas																					47		430
OREAS 101b (Fusion) Cert																					47		420

Analyte Symbol	SiO2	Al2O3	Fe2O3(T)	MnO	MgO	CaO	Na2O	K2O	TiO2	P2O5	LOI	Total	Sc	Be	V	Ba	Sr	Y	Zr	Cr	Co	Ni	Cu
Unit Symbol	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.01	0.01	0.01	0.001	0.01	0.01	0.01	0.01	0.001	0.01		0.01	1	1	5	2	2	1	2	20	1	20	10
Method Code	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-ICP	FUS-MS	FUS-MS	FUS-MS	FUS-MS
JR-1 Meas																					1	< 20	
JR-1 Cert																					0.83	1.67	
121786 Orig																							
121786 Dup																							
121804 Orig	92.92	0.67	0.25	0.011	0.96	1.39	0.02	0.17	0.040	< 0.01	2.50	98.93	< 1	< 1	< 5	11	4	2	58	< 20	< 1	< 20	< 10
121804 Dup	94.51	0.65	0.25	0.011	0.97	1.42	0.02	0.16	0.040	< 0.01	2.50	100.5	< 1	< 1	< 5	11	3	2	63	< 20	< 1	< 20	< 10
Method Blank																							
Method Blank	0.01	< 0.01	0.01	0.007	< 0.01	0.01	0.01	< 0.01	< 0.001	< 0.01			< 1	< 1	< 5	< 2	< 2	< 1	4	< 20	< 1	< 20	< 10

Analyte Symbol	Zn	Ga	Ge	As	Rb	Nb	Mo	Ag	In	Sn	Sb	Cs	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	30	1	1	5	2	1	2	0.5	0.2	1	0.5	0.5	0.1	0.1	0.05	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1
Method Code	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
GXR-1 Meas																							
GXR-1 Cert																							
DNC-1 Meas	50	13				3							3.7			5.4		0.64					
DNC-1 Cert	70	15				3							3.6			5.20		0.59					
GBW 07113 Meas																							
GBW 07113 Cert																							
GXR-4 Meas																							
GXR-4 Cert																							
LKSD-3 Meas	140			22	77		< 2	2.0		2		2.2	48.3	90.9		44.2	8.2	1.50			5.0		
LKSD-3 Cert	152			27.0	78.0		2.00	2.70		3.00		2.30	52.0	90.0		44.0	8.00	1.50			4.90		
TDB-1 Meas	150				21								17.4	40.8		24.2		2.10					
TDB-1 Cert	155				23								17	41		23		2.1					
W-2a Meas	80	18	1	< 5	21	7	< 2				0.8	1.0	10.3	24.2		12.9	3.4			0.6	3.9	0.8	
W-2a Cert	80.0	17.0	1.00	1.20	21.0	7.90	0.600				0.790	0.990	10.0	23.0		13.0	3.30			0.630	3.60	0.760	
W-2a Meas	80	18	2		19	8	< 2				0.7	0.9	11.0	23.8		13.1	3.4			0.6	3.9	0.8	
W-2a Cert	80.0	17.0	1.00		21.0	7.90	0.600				0.790	0.990	10.0	23.0		13.0	3.30			0.630	3.60	0.760	
SY-4 Meas																							
SY-4 Cert																							
CTA-AC-1 Meas													> 2000	> 3000		1160	166	46.3	130	14.2			
CTA-AC-1 Cert													2176	3326		1087	162	46.7	124	13.9			
BIR-1a Meas	70	14		< 5									0.7	1.9		2.6	1.2	0.60	2.0				
BIR-1a Cert	70	16		0.44									0.63	1.9		2.5	1.1	0.55	2.0				
NCS DC86312 Meas													> 2000	173		1570			241	31.8	193	35.9	102
NCS DC86312 Cert													2360	190		1600			225.0	34.6	183	36	96.2
NCS DC70009 (GBW07241) Meas	90	15	11	63	476			2.3	1.5	> 1000	2.9	40.7	24.1	60.1	8.00	33.5	12.6	0.15	16.0	3.2	22.1	4.5	13.9
NCS DC70009 (GBW07241) Cert	100	16.5	11.2	69.9	500			1.8	1.3	1700	3.1	41	23.7	60.3	7.9	32.9	12.5	0.16	14.8	3.3	20.7	4.5	13.4
OREAS 100a (Fusion) Meas						23							260	468	47.1	153	24.5	3.79	21.7	3.5	24.5	5.1	15.7
OREAS 100a (Fusion) Cert						24.1							260	463	47.1	152	23.6	3.71	23.6	3.80	23.2	4.81	14.9
OREAS 101a (Fusion) Meas						20							795	1360	131	398	49.8	8.34	40.1	5.3	34.0	6.9	20.7
OREAS 101a (Fusion) Cert						21.9							816	1396	134	403	48.8	8.06	43.4	5.92	33.3	6.46	19.5
OREAS 101b (Fusion) Meas						20							816	1400	127	384	50.0	8.19		5.2	32.0	6.3	18.8
OREAS 101b (Fusion) Cert						21							789	1331	127	378	48	7.77		5.37	32.1	6.34	18.7
JR-1 Meas	< 30	16	2	15	235	14	3		< 0.2	3	1.3	19.4	20.0	47.6	6.10	23.7	6.1	0.27	5.1	1.0	5.7	1.2	3.7

Analyte Symbol	Zn	Ga	Ge	As	Rb	Nb	Mo	Ag	In	Sn	Sb	Cs	La	Ce	Pr	Nd	Sm	Eu	Gd	Tb	Dy	Ho	Er
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	30	1	1	5	2	1	2	0.5	0.2	1	0.5	0.5	0.1	0.1	0.05	0.1	0.1	0.05	0.1	0.1	0.1	0.1	0.1
Method Code	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS
JR-1 Cert	30.6	16.1	1.88	16.3	257	15.2	3.25		0.028	2.86	1.19	20.8	19.7	47.2	5.58	23.3	6.03	0.30	5.06	1.01	5.69	1.11	3.61
121786 Orig																							
121786 Dup																							
121804 Orig	< 30	< 1	< 1	< 5	< 2	1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	4.1	7.4	0.83	2.7	0.5	0.11	0.4	< 0.1	0.3	< 0.1	0.1
121804 Dup	< 30	< 1	< 1	< 5	< 2	1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	3.8	7.3	0.76	2.4	0.4	0.08	0.3	< 0.1	0.3	< 0.1	0.1
Method Blank																							
Method Blank	< 30	< 1	< 1	< 5	< 2	< 1	< 2	< 0.5	< 0.2	< 1	< 0.5	< 0.5	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.05	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1

Analyte Symbol	Tm	Yb	Lu	Hf	Ta	W	Ti	Pb	Bi	Th	U	B
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.05	0.1	0.01	0.2	0.1	1	0.1	5	0.4	0.1	0.1	2
Method Code	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS-Na2O2
GXR-1 Meas												16
GXR-1 Cert												15.0
DNC-1 Meas		2.1										
DNC-1 Cert		2.0										
GBW 07113 Meas												
GBW 07113 Cert												
GXR-4 Meas												4
GXR-4 Cert												4.50
LKSD-3 Meas		2.9	0.40	4.9						11.6	4.8	
LKSD-3 Cert		2.70	0.400	4.80						11.4	4.60	
TDB-1 Meas		3.2								2.5		
TDB-1 Cert		3.4								2.7		
W-2a Meas		2.1	0.30	2.4	0.5	< 1	0.1	9	< 0.4	2.3	0.5	
W-2a Cert		2.10	0.330	2.60	0.500	0.300	0.200	9.30	0.0300	2.40	0.530	
W-2a Meas		2.1	0.31		0.5	< 1	< 0.1		< 0.4	2.3	0.5	
W-2a Cert		2.10	0.330		0.500	0.300	0.200		0.0300	2.40	0.530	
SY-4 Meas												
SY-4 Cert												
CTA-AC-1 Meas		11.5			2.6					21.5	4.3	
CTA-AC-1 Cert		11.4			2.65					21.8	4.4	
BIR-1a Meas		1.8		0.6								
BIR-1a Cert		1.7		0.60								
NCS DC86312 Meas	14.5	91.1	12.0									
NCS DC86312 Cert	15.1	87.79	11.96									
NCS DC70009 (GBW07241) Meas	2.30	16.0	2.48			2270	1.9					
NCS DC70009 (GBW07241) Cert	2.2	14.9	2.4			2200	1.8					
OREAS 100a (Fusion) Meas	2.41	16.2	2.42							55.5		
OREAS 100a (Fusion) Cert	2.31	14.9	2.26							51.6		
OREAS 101a (Fusion) Meas	3.00	17.9	2.71							38.6	456	
OREAS 101a (Fusion) Cert	2.90	17.5	2.66							36.6	422	
OREAS 101b (Fusion) Meas	2.74	17.9	2.56							36.7	403	
OREAS 101b (Fusion) Cert	2.66	17.6	2.58							37.1	396	

Analyte Symbol	Tm	Yb	Lu	Hf	Ta	W	Ti	Pb	Bi	Th	U	B
Unit Symbol	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Lower Limit	0.05	0.1	0.01	0.2	0.1	1	0.1	5	0.4	0.1	0.1	2
Method Code	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS	FUS-MS-Na2O2
JR-1 Meas	0.69	4.2	0.71	4.1	1.8		1.5	20	0.4	29.0	9.7	
JR-1 Cert	0.67	4.55	0.71	4.51	1.86		1.56	19.3	0.56	26.7	8.88	
121786 Orig												8
121786 Dup												7
121804 Orig	< 0.05	0.2	< 0.01	1.3	< 0.1	2	< 0.1	< 5	< 0.4	0.7	0.3	
121804 Dup	< 0.05	0.1	< 0.01	1.3	0.1	1	< 0.1	< 5	< 0.4	0.8	0.3	
Method Blank												< 2
Method Blank	< 0.05	< 0.1	< 0.01	< 0.2	< 0.1	< 1	< 0.1	< 5	< 0.4	< 0.1	< 0.1	

APPENDIX 4: 2018 SAMPLE DESCRIPTIONS AND ASSAY RESULTS
GOLDEN FRAC SAND SOUTH PROPERTY

Assay Sample ID	Easting	Northing	Rock Type	Description	Comments	SiO ₂ %	Fe ₂ O ₃ %
121776	512143	5672196	Quartzite	white,fg, well sorted, sugary texture.	Reddish tan to grey banding	99.29	0.12
121777	512072	5672284	Quartzite	grey wth'd, white fresh, fg-mg, well sorted. Highly resistant. Some oxidation.	bedding: 210/65	99.26	0.06
121778	512042	5672327	Quartzite	lt. grey wth'd, white fresh, vfg-mg, well sorted, sugary txt, slight Fe ox, resistant		98.16	0.05
121779	507218	678286	Quartzite	tan-grey wth'd, white fresh, fg, some dark bands, slight Fe ox. Heavily jointed	joint orientation: 134/40 SW	99.11	0.08
121780	507187	5678324	Quartzite	cream white wth'd, white fresh. Fg-mg, well sorted, sugary txt, slight Fe ox.	some layers of dark, mg, SS	98.56	0.09
121781	507146	5678390	Quartzite	lt.grey wth'd, white fresh, fg-mg, very well sorted, sugary txt, very resistant	rare joints	98.28	0.09
121801	5714819	5671430	Quartzite	grey-tan wth'd, grey fresh, fg, crystalline	mm scale qtz veins	89.77	0.34
121802	514787	5671402	Quartzite	grey-pink red wth'd, grey fresh, fg, crystalline	outcrop trends 340°	92.28	0.24
121803	514739	5671326	Quartzite	red-brown wth'd, light grey fresh, fg, crystalline, mm scale Fe ox nodules		96.86	0.22
121804	514704	5671295	Quartzite	tan wth'd, off white fresh, fg-cg w/ black mm scale lithics (magnetite?)		93.72	0.25
121805	514626	5671303	Quartzite	tan-rusty wth'd, off white fresh, fg, black lithics present.		80.23	0.38
121806	514531	5671402	Quartzite	tan-rusty wth'd, grey fresh, fg, trace black lithics and trace localized glauconite.		95.5	0.19
121807	514191	5671524	Quartzite	pink/brown wth'd, off white fresh, fg, crystalline		96.96	0.18
121808	510620	5673574	Quartzite	Rusty-tan wth'd, lt. grey fresh, fg, trace black lithics		80.39	0.35
121809	510655	5673603	Quartzite	lt. tan - rusty red wth'd, lt. grey fresh, fg, crystalline with localized dark lithics		77.81	0.72
121810	510714	5673567	Quartzite	brown grey wth'd, white fresh, vfg, crystalline, local colour variations		98.63	0.12
121811	510734	5673485	Quartzite	light tan coloured, recessive subcrop. Fg, sediment mixed with qtzite outcrop		98.05	0.15
121812	510728	5673287	Quartzite	lt. brown wth'd, off white fresh, fg, crystalline with trace black lithics		97.38	0.19

APPENDIX 5: STATEMENT OF QUALIFICATIONS

P. Kluczny is a geological consultant with Dahrouge Geological Consulting Ltd. based in Edmonton, Alberta. He obtained a B.Sc. with Specialization in Geology from the University of Alberta, Edmonton in 2006 and has since been employed in the mineral exploration industry continuously. He is currently registered as a P.Geol. with the Association of Professional Engineers and Geoscientists of Alberta.