

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)]: Technical prospecting and sampling

TOTAL COST: 9216.77

AUTHOR(S): Jarret Kreft and Justin Kreft

SIGNATURE(S): report signed

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): no surface disturbance

YEAR OF WORK: 2014

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): 5535042

PROPERTY NAME: Uduk Porphyry

CLAIM NAME(S) (on which the work was done): 1026747

COMMODITIES SOUGHT: Cu-Mo-Au-Ag

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN: 093F 031 (WT)

MINING DIVISION: Omineca

NTS/BCGS: 093F05e/093F043

LATITUDE: 53 ° 28 ' " **LONGITUDE:** 125 ° 32 ' " (at centre of work)

OWNER(S):

1) Bernard Kreft

2)

MAILING ADDRESS:

1 Locust Place, Whitehorse Yukon, Y1A5G9

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

1) Bernard Kreft

2)

MAILING ADDRESS:

as above

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

Bulkley Plutonic Suite, Hazelton Group volcanics, Ootsa Lake Group rhyolite dykes, epidote, limonite, chalcopyrite, pyrite

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 3254, 3810, 4403

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 17 soil/till 36 element icp		1026747	
Silt			
Rock 16 36 element icp		1026747	
Other			
DRILLING (total metres; number of holes, size)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling/assaying			
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale, area)			
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:	\$9,216.77

Assessment Report
**2014 Geochemical Sampling
And
Prospecting Report
On The
Uduk PPY Property
Tenure Worked On: 1026747**

Located In The Nechako Plateau Area
Central British Columbia
Omineca Mining Division
On
NTS: 093F05E
BCGS: 093F043
Latitude 53°28' North and Longitude 125°32' West

By
Jarret & Justin Kreft

December 13th, 2014

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Location – The Uduk PPY project is located on BCGS map sheet 093F043 in the Omineca Mining Division approximately 93 kilometers south-west of Burns Lake BC and 5km north of Chelaslie Arm, a branch of Euchu Lake, centered at 53°28' North and 125°32' West. A total of four tenures comprise the project, with claim data found on the following table:

Name	Tenure Numbers	Registered Owner	Expiry Date Y/M/D	Area (Ha)
UDUK PPY 1	1027421	Kreft, John Bernard	2015/APR/10	500ha
UDUK PPY 2	1027422	“	2015/APR/10	173ha
UDUK PPY 3	1027423	“	2015/APR/10	96ha
UDUK PPY	1026747	“	2015/MAR/18	307ha

Access – Access to Uduk PPY was achieved via helicopter from Burns Lake, an approximate 35 minute one-way flight. The property can also be reached by a series of logging roads extending south from either Burns Lake or Vanderhoof to the Ice Bridge Ferry crossing at Ootsa Lake/Intata Reach. Well maintained logging roads extend from the south shore barge landing (near White Eye Lake) to the centre of the property. Ferry access across Intata Reach is intermittent due to a slowdown in forestry activities, necessitating calling in advance about barge availability.

Topography and Vegetation – The property is located on the Nechako plateau, just north of Chelaslie Arm a branch of Euchu Lake. Euchu Lake is part of a series of artificial lakes formed behind the Kenney Dam. Upland surfaces are generally comprised of rolling hills with numerous small lakes and marshes, with many of the smaller drainages generally following striations remaining from glacial activity which crossed the area from the SW to NE. Topography in the area is moderate, with elevations ranging from 850 meters on Chelaslie Arm to over 1200 meters on hill tops. Outcrop exposures are found at higher elevations, but become increasingly masked by glacial till at lower elevations.

The main economic activity in the area is logging, with approximately 20% of the property being clear cut which has left logging slash with a light growth of shrubbery and planted trees. Vegetation is dominated by evergreens (pine and spruce) with poplar and cottonwood in low-lying areas, and undergrowth of huckleberry and alder. Large areas of vegetation have been affected by the Rocky Mountain Pine beetle. Along the Nechako Reservoir, any area close to lake level is potentially liable to be flooded with no compensation. There are numerous ranches and farms and some tourism related businesses northwest of the property in the Takysie-Grassy Plains area.

History and Previous Work – This area received little exploration until the late 1960’s when several major mining companies including Noranda Exploration Company Ltd and Placer Developments Ltd carried out regional stream and lake sediment sampling programs in search for Cu-Mo porphyry deposits. This work resulted in the staking of the WT (Uduk Porphyry property) showing by Noranda and the Bull showing by Placer Developments. A brief description of the exploration programs conducted on these showings is found below:

AR 3254 – In 1971 Noranda collected 390 C-horizon soils at 200ft intervals from lines spaced 100ft apart on the WT Claims (Chelaslie Property) located on the east shore of Dog Lake, 5 km north of Chelaslie Arm. This work, designed to follow up anomalous stream sediment values obtained from earlier work, returned >2000 ppm Cu and up to 175 ppm Mo, with sampling conditions affected by glacial till. Geology consists of quartz monzonite to latite porphyry in contact with intermediate to basic volcanics consisting predominantly of propylitized andesite and andesite porphyry. Recommendations for further work included detailed geological mapping in conjunction with an IP survey.

AR 3810 – In 1972 Noranda completed mapping and limited hand trenching within the area of their 1971 soil grid. This work showed that the property is centred on a chloritized and saussuritized biotite



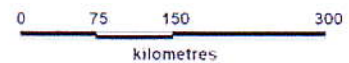
Property Location Map (Provincial)
 To Accompany Uduk Porphyry Assessment Report

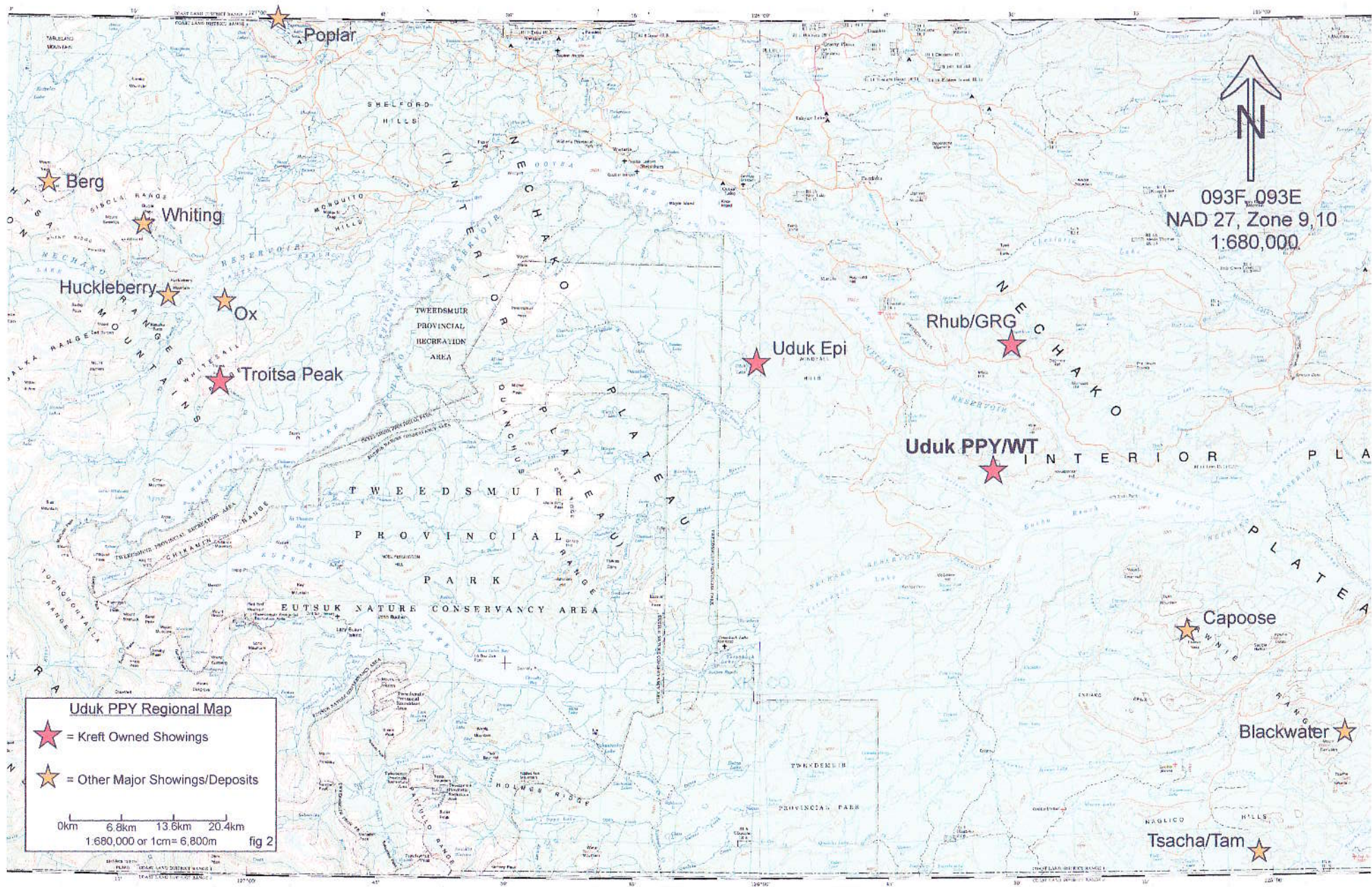
* = Property Location

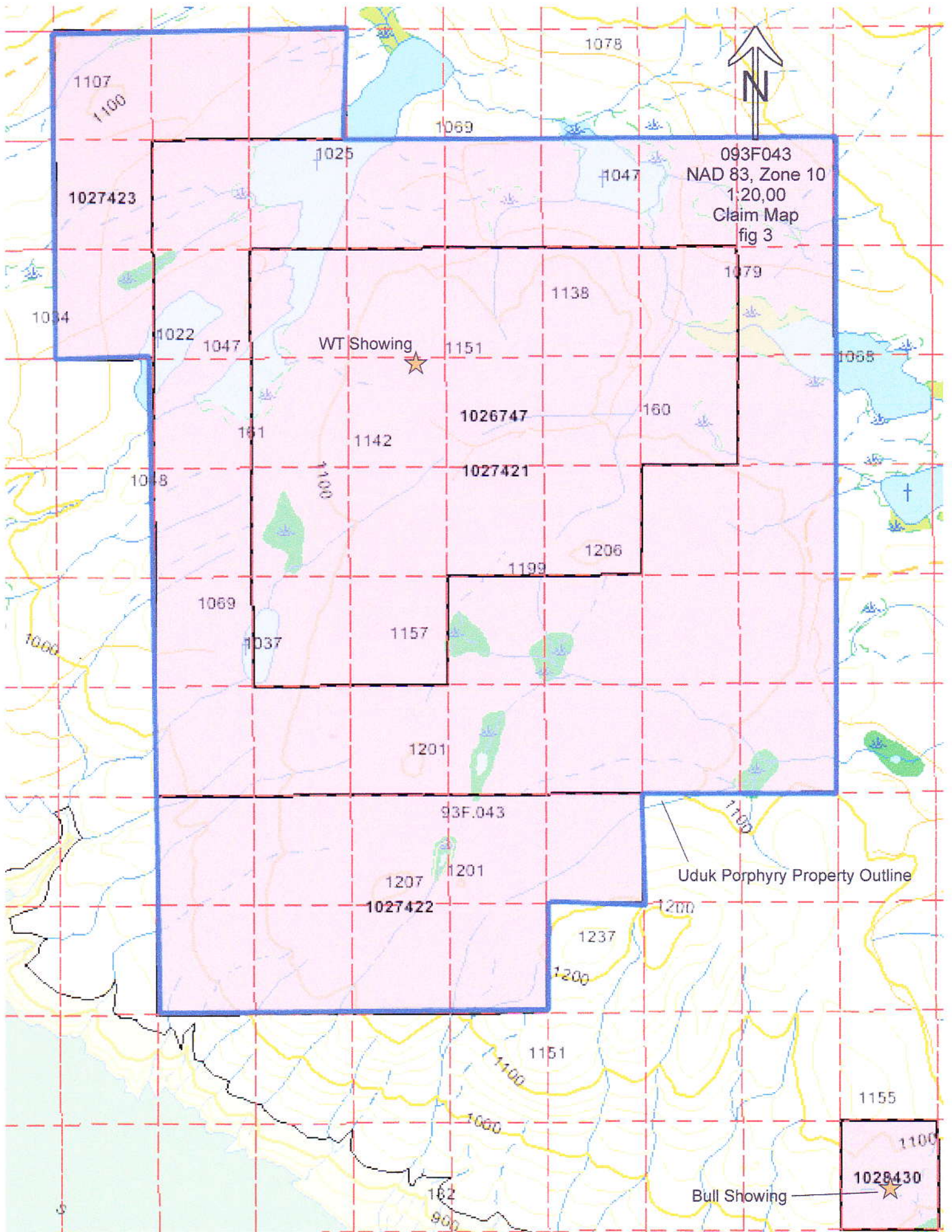
Date Drawn: December 16th, 2014

Drawn By: Jarret Kreft

Fig1







093F043
NAD 83, Zone 10
1:20,00
Claim Map
fig 3

WT Showing



Uduk Porphyry Property Outline

Bull Showing



1107
1100

1027423

1034

1022

1047

1025

1069

1078

1047

1079

1138

1068

1047

1151

1026747

160

161

1142

1027421

1048

1206

1000

1048

1100

1069

1199

1157

1037

1201

93F.043

1207

1201

1027422

1100

Uduk Porphyry Property Outline

1237

1200

1200

1151

1000

1155

1100

1028430

162

900

Bull Showing



S

hornblende diorite to quartz diorite pluton, found east and west of Dog Lake, which has caused skarn alteration and hornfelsing within adjacent metasedimentary rocks especially along the south side of the intrusion. Latite porphyry to andesite bodies are found throughout the area and likely occur as scattered dykes a/o sills. Structure, based on dominant fracture orientations and from where dyke trends could be measured, is to the NE and to a lesser extent NW. Mineralization consisting of py-cpy-mo and minor bo-po-mag is found variably dispersed throughout the plutonic rocks and skarn-hornfels unit with greatest concentration in the biotite rich diorite unit over a 900 metre by 600 metre area. A total of 16 rock samples yielded maximum values of 0.62 oz/T Ag, 0.58% Cu and 0.07% Mo but no detectable gold. Due to the effects of SW to NE moving glaciers and surficial leaching, mechanized trenching or a few short ddh were recommended as follow up work.

AR 4403 – In 1972 McPhar Geophysics conducted a 9 line IP geophysical survey (about 11 line kilometres) to follow up previous soil and rock sample anomalies located by Noranda. The survey located an anomaly, open to the west, suggestive of a broad zone of weakly disseminated sulphide mineralization the core of which is located near the southern contact of the pluton partially encompassing, and extending south of, the main copper in soil anomaly and anomalous rock sample sites. An IP survey of greater detail along with trenching and drilling was recommended as follow up.

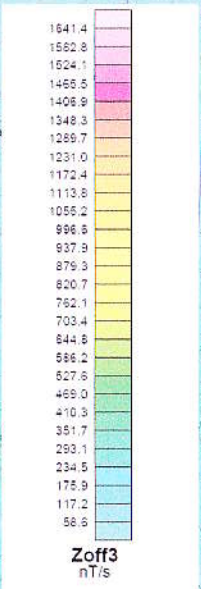
AR 22535 – In 1992 Dave Caulfield conducted a field exploration program, on Sleeping Gold Ltd.'s Bull Property located approximately 4.0 kilometres SE of the Uduk Porphyry (WT) property. This work yielded 24 rock samples and 152 soil samples and resulted in the discovery of a minimum 4m wide by 20m long zone of epithermal style quartz vein stockwork and breccia, samples of which yielded up to 21.4 g/t Au and 186.5 g/t Ag along with anomalous Pb-As-Sb-Zn-Cu. Mineralization remains open to the west but appears to be cut off by a rhyolite dyke 100m east of the showing. Soil geochemistry returned up to 1320 ppb Au and 57.6 ppm Ag with the distribution of anomalous values suggesting the presence of additional nearby mineralization. Geology consists of a sequence of lower to middle Jurassic Hazelton Group mafic volcanics intruded by Eocene Ootsa Lake group rhyolite dykes which in turn are cut by diabase dykes thought to be feeders to the Miocene Endako Group basalt.

AR 29485 – During 2007 Golden Dragon Exploration Inc. contracted Aeroquest to conduct a helicopter-borne AeroTEM electromagnetic and magnetic survey at 100 metre line spacings over an approximate 5km x 18km NW trending block encompassing the Uduk Porphyry (WT) property. This work located a weak to moderate NNE trending conductor along Dog Lake (structure or conductive overburden?) adjacent to the east of which is a parallel strong positive somewhat linear magnetic anomaly within which the showings are located. Of particular interest is a circular, strongly positive, magnetic anomaly approximately 1.0 square kilometre in size located just west of Dog Lake where Noranda noted the presence of diorite similar to that which is located at the showing area. See attached figures for more detail.

Regional Metallogeny – GSC 2000-A9 (Late Cretaceous ages for the Chelaslie River and Tetachuk North plutons) contains data on age-dating of two granitic plutons in the vicinity of the Uduk Porphyry property. The intrusives dated are biotite hornblende diorite to quartz monzodiorite bodies located approximately 10 kilometres south and west of Uduk Porphyry property which contains a texturally and compositionally similar body. Age dates of 76.6 Ma to 80.3 Ma were returned and help correlate with and extend eastward the distribution of the Bulkley plutonic suite which is associated with important Cu a/o Mo porphyry deposits such as Berg, Whiting, Ox and Huckleberry. The Bulkley Suite may also be associated with epithermal style precious metal targets such as Blackwater-Davidson and Capoose. Work by Tempelman-Kluit VP of exploration for Richfield Ventures noted that felsic magmatism and associated mineralization at Blackwater and Capoose has been dated at 66-74 Ma and may represent the waning stages of Bulkley suite (70-84 Ma) magmatism.



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NAD 83, Zone 10
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AEROTEM Z3 OFFTIME
fig 4

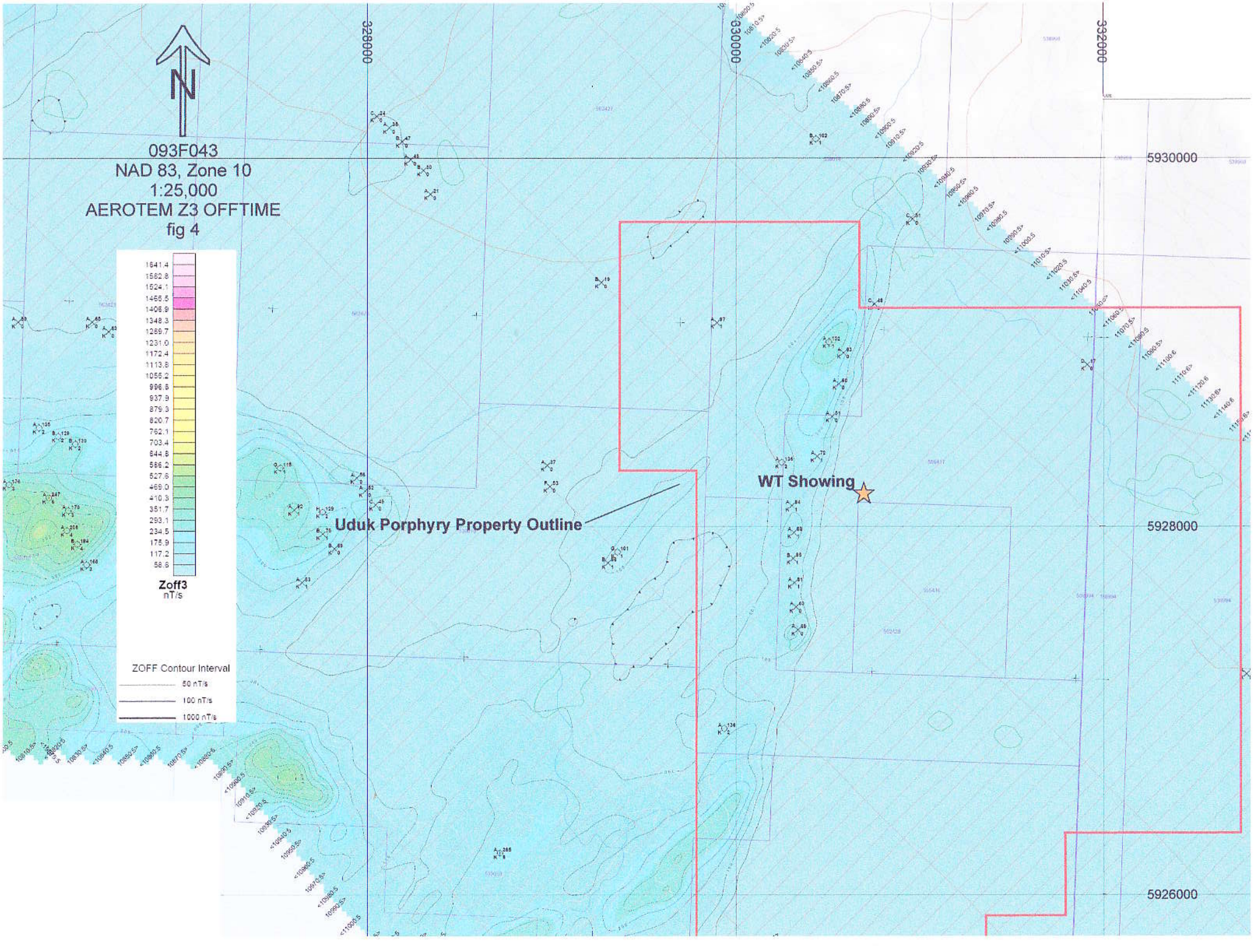


ZOFF Contour Interval

- 50 nT/s
- 100 nT/s
- 1000 nT/s

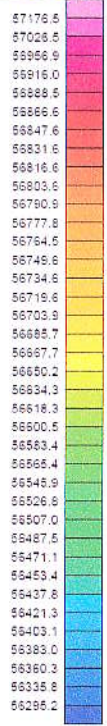
Uduk Porphyry Property Outline

WT Showing



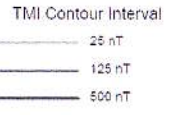


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NAD-83, Zone 10
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Aeromagnetic Map
fig 5



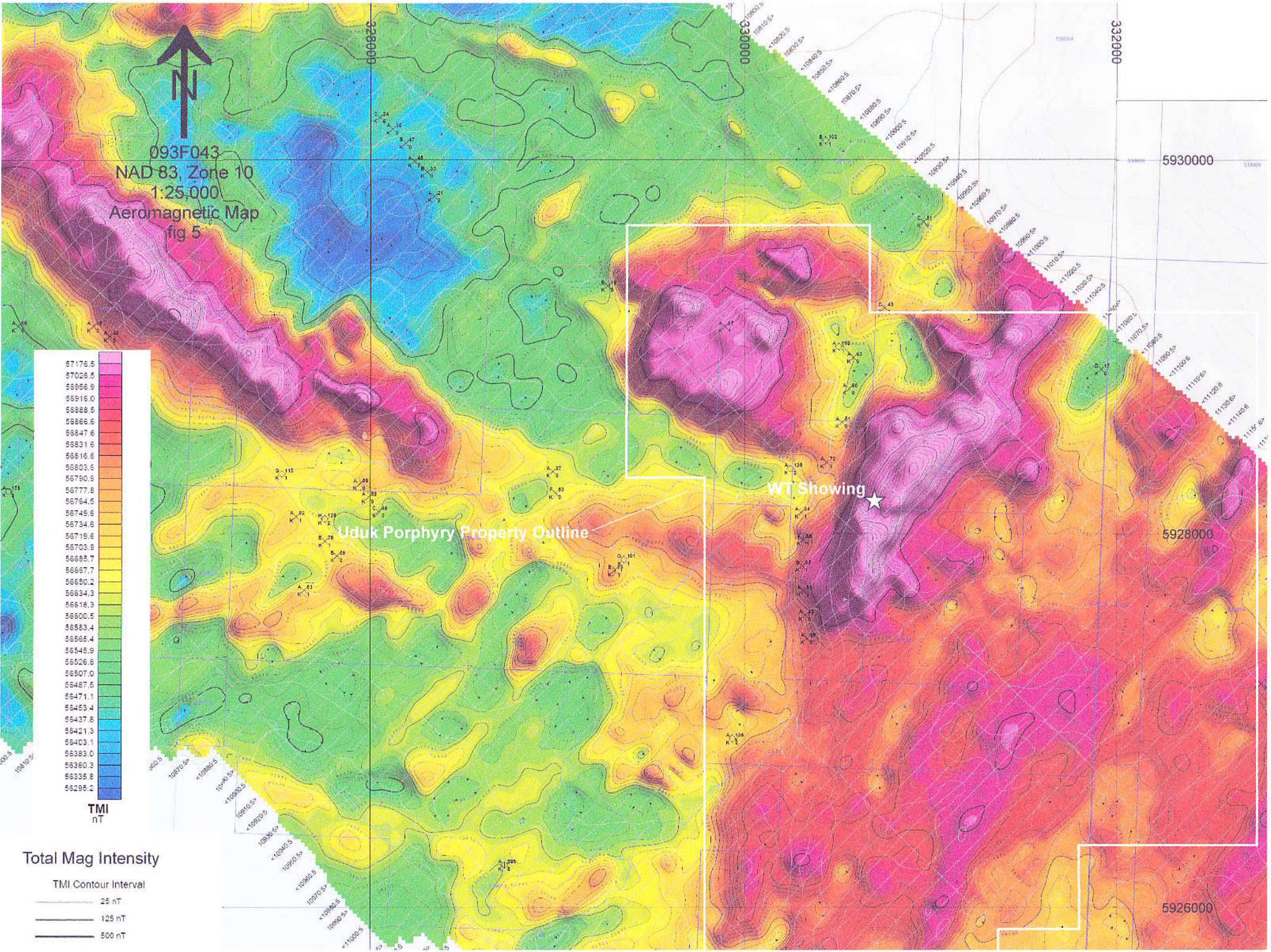
TMI
nT

Total Mag Intensity



Uduk Porphyry Property Outline

WT Showing



5926000

5928000

5930000

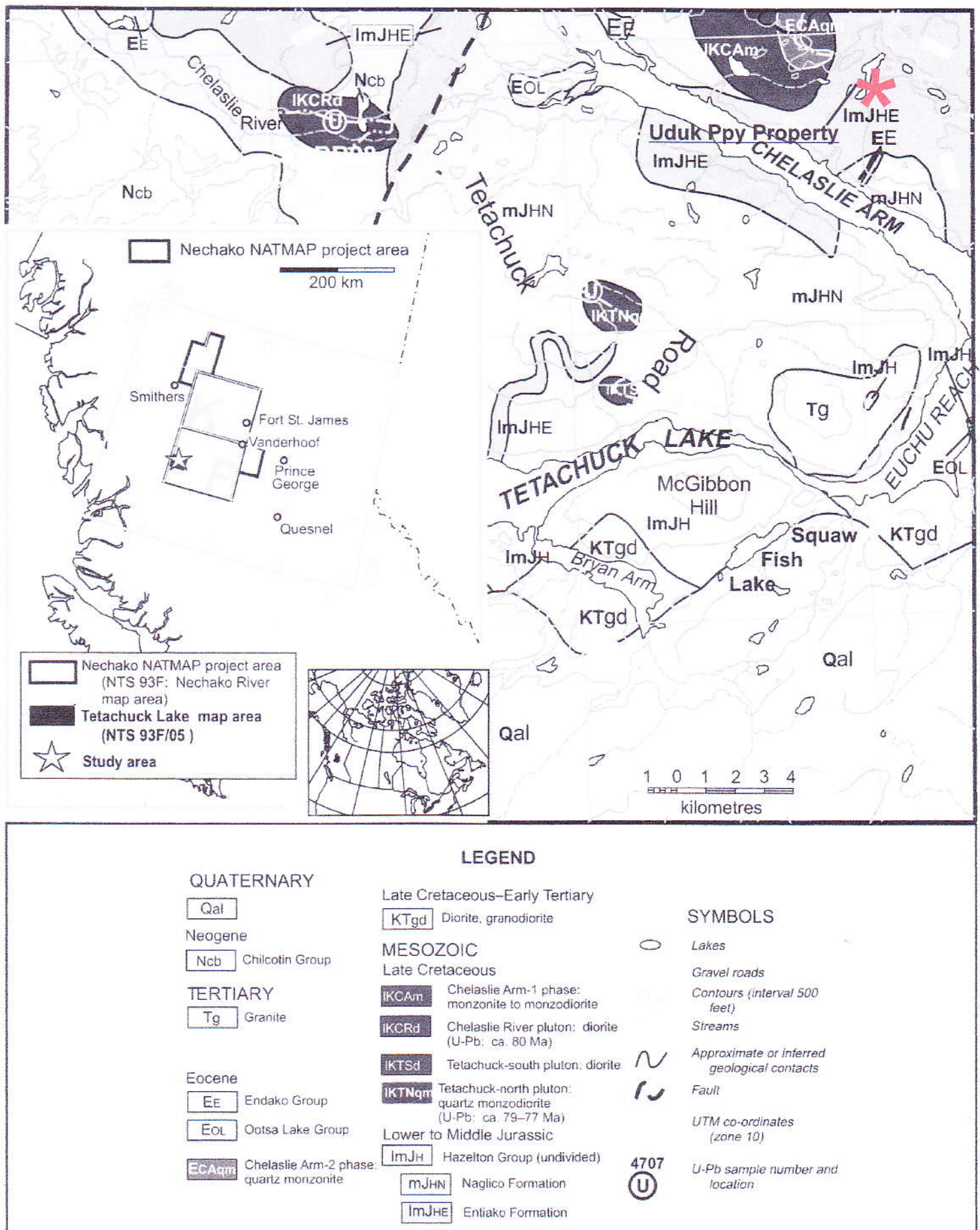
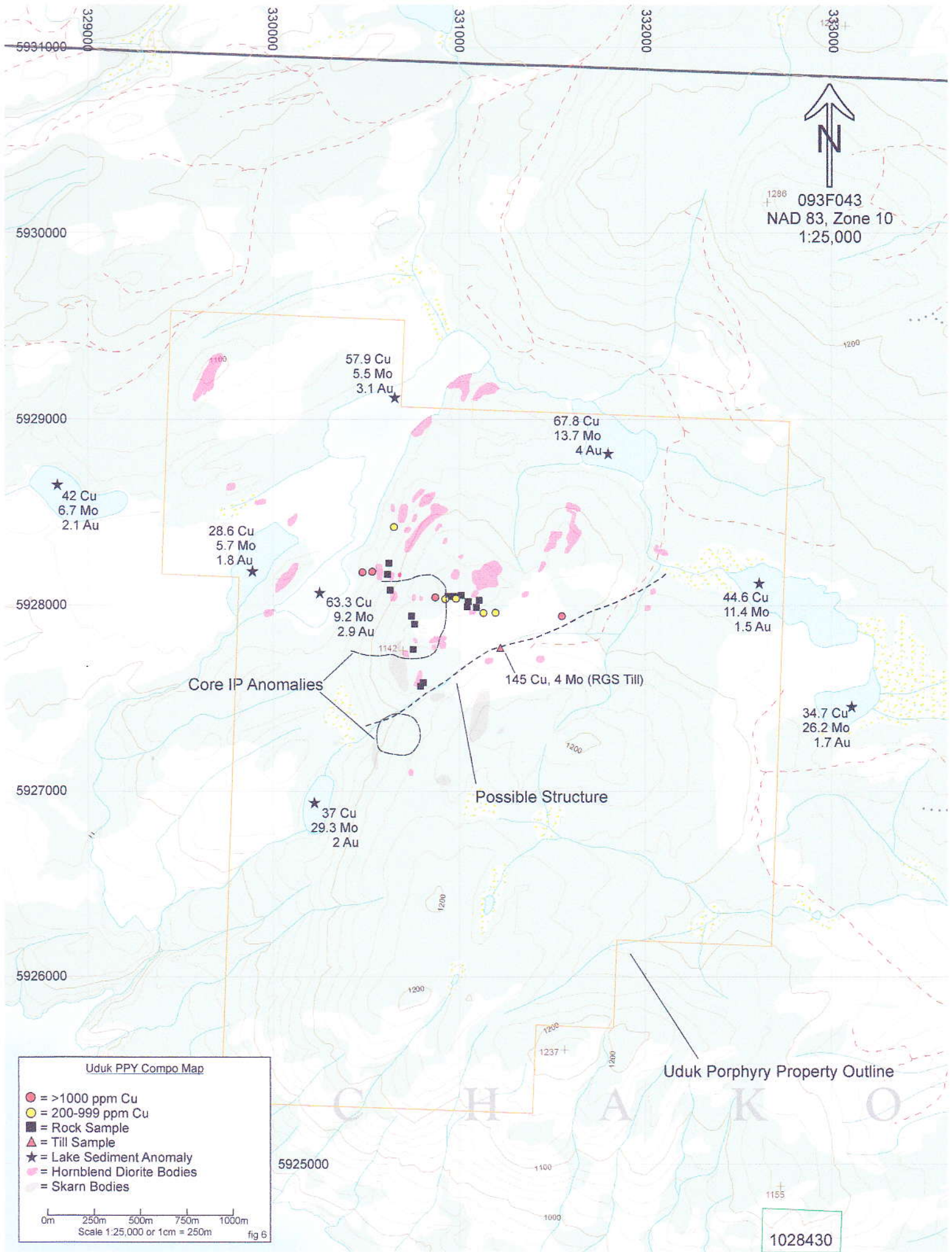


Figure 1. Geological map of the Tetachuck Lake map area showing locations of plutons studied. Country rock geology is from L.C. Struik and M.B. Quat (unpub. data, 1998). Inset map shows location of Tetachuck Lake map area within the Nechako NATMAP project area.



1286
 093F043
 NAD 83, Zone 10
 1:25,000

Core IP Anomalies

Possible Structure

Uduk Porphyry Property Outline

Uduk PPY Compo Map

- = >1000 ppm Cu
- = 200-999 ppm Cu
- = Rock Sample
- ▲ = Till Sample
- ★ = Lake Sediment Anomaly
- = Hornblend Diorite Bodies
- = Skarn Bodies

0m 250m 500m 750m 1000m
 Scale 1:25,000 or 1cm = 250m fig 6

1028430

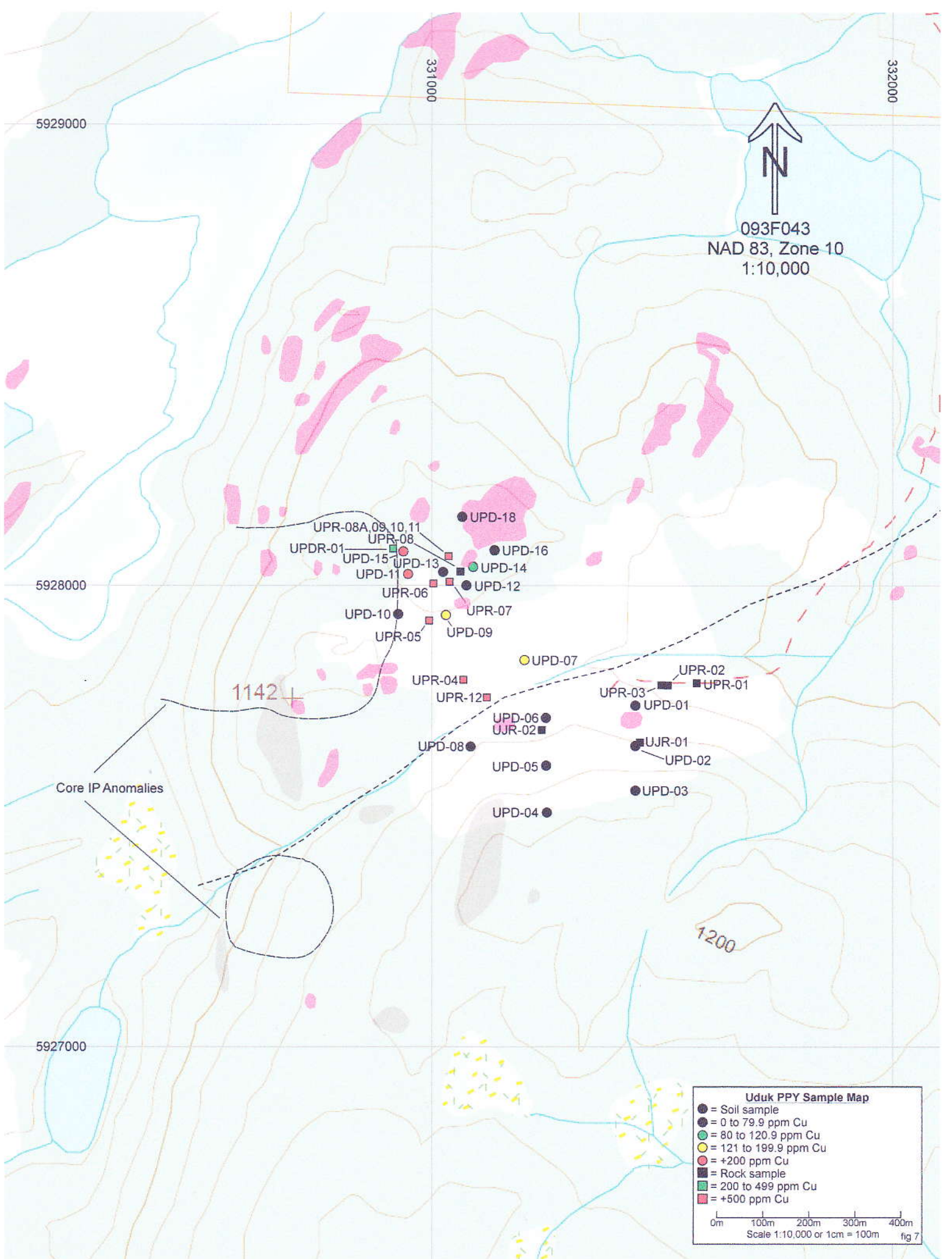
Geology – Bedrock in the area of the Uduk Porphyry property consists of early to middle Jurassic Hazelton Group volcanics and lesser sediments intruded by a late Cretaceous Bulkley suite dioritic intrusive. Cutting these rocks are Eocene Ootsa Lake group rhyolite dykes and later diabase dykes thought to be feeders to the Miocene Endako group basalt, outcrops of which can be found to the north and east of the property. For greater detail on the description of the various rock units present the reader is referred to AR03810 by Noranda.

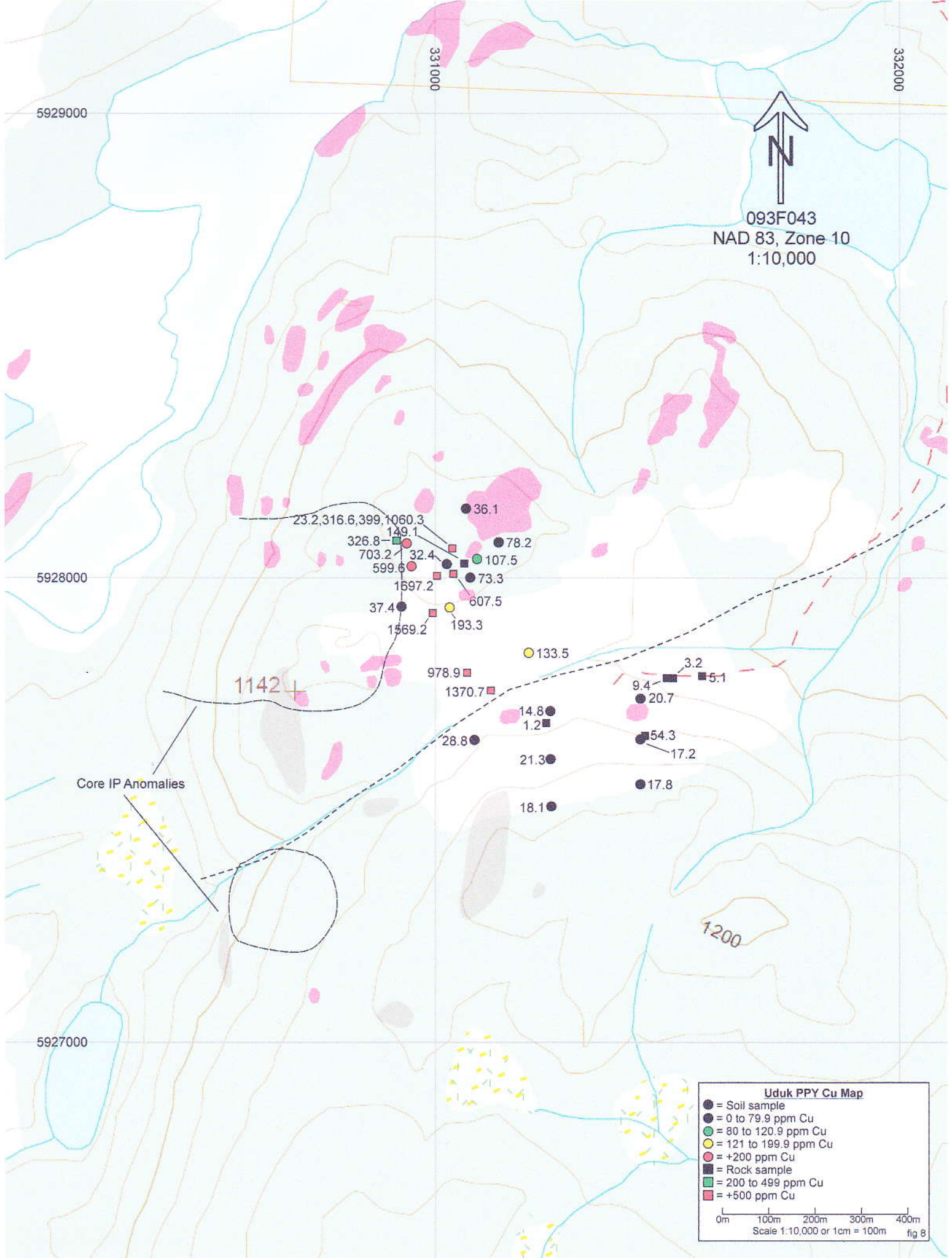
Current Work and Results – Exploration work at the Uduk Porphyry Project during May 22nd to 24th yielded 16 rock, 5 soil and 12 till samples. Till samples were taken from un-oxidized till found at a depth of 80-120 centimetres using hand held augers, while soil samples were taken from the C-horizon in areas where till coverage was very thin or nonexistent. Soil sampling conditions were good while till sampling was very time consuming due to the presence of thick mud and residual winter frost. Rock samples were taken from along a logging road and old hand trenches, likely representing Noranda work, found on the property. Sample sites were marked in the field using flagging inscribed with the sample code, with soil and till samples placed in industry standard soil sample envelopes and rock samples placed into standard 8.5x11 poly rock sample bags. All samples were analyzed by ACME, with soils and tills prepped using SS80 (100g to -80 mesh), rocks prepped using PRP7-250 (pulverize and 250g split) and analyses completed using their AQ201 (36 element aqua regia ICP-MS) package. All rock samples that returned greater than 0.5 g/t were subjected to their FA430 (30g fire assay with AAS finish) method.

Fieldwork completed on the Uduk Porphyry Property during the 2014 field season was designed to confirm historical Noranda results. The top rock sample returned values of 2.6 ppb Au, 7.2 ppm Ag, 1569.2 ppm Cu and 6.2 ppm Mo from an angular cobble of weakly epidote altered and limonitic diorite with 2% pyrite and trace chalcopyrite occurring as disseminations and fracture coatings. The top soil sample returned 2.3 ppb Au, 4.0 ppm Ag, 703.2 ppm Cu and 11.7 ppm Mo. Overall results confirm Noranda's observation that a porphyry style target exists within property environs.

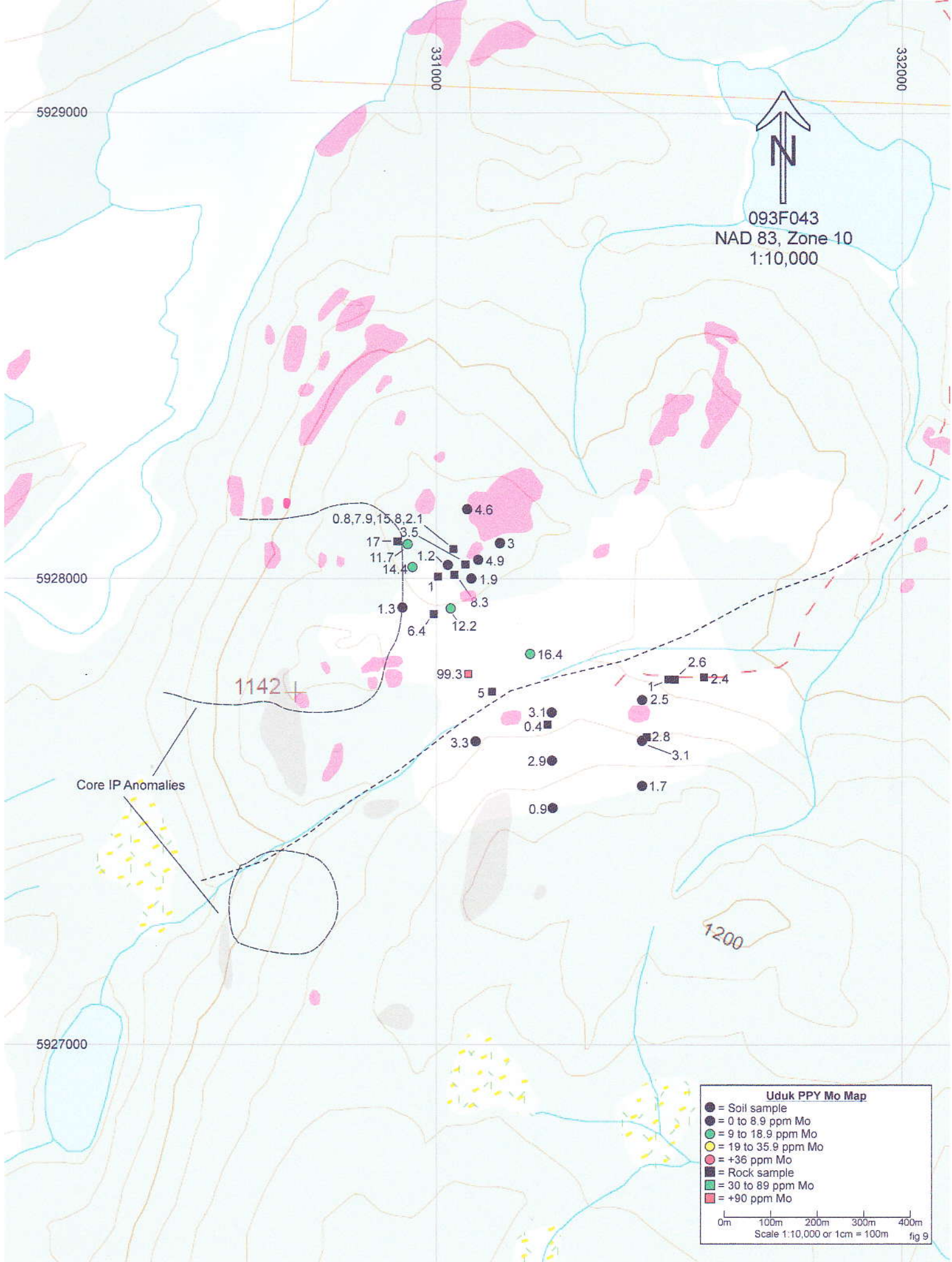
Conclusions – Recent age dating of plutonic bodies in the vicinity of the Uduk Porphyry project suggests that the intrusive located on the property is likely part of the metallogenically important Bulkley Plutonic Suite, which is associated with significant Cu-Mo porphyry deposits like Huckleberry, Berg, Whiting, Ox and epithermal style targets such as Capoose and Blackwater. Mineralization consists of py-cpy-mo and minor bo-po-mag which is found variably dispersed throughout the plutonic rocks and the skarn-hornfels unit (similar setting as Huckleberry, Whiting, Berg, Poplar and Ox) with greatest concentration in the southern margin of the biotite rich diorite unit over a 900 metre by 600 metre area. Sampling within this area returned maximum rock sample values of 0.62 oz/T Ag, 0.58% Cu and 0.07% Mo and soil sample values of up to >2,000 ppm Cu and 175 ppm Mo, with no detectable Au in either medium. The combination of an excellent geophysical database, extensive network of logging roads, a complete lack of drilling, minimal trenching and the masking effects of glacial till suggests excellent exploration upside remains, with further work highly recommended.

Recommendations – Further work on Uduk Porphyry is highly recommended and should be concentrated on the south half of the intrusive and adjacent skarn-hornfels unit. Phase one should consist of soil, till and rock sampling along with an IP survey over a 50m x 100m grid along with some regional scale sampling work on surrounding aeromagnetic targets; paying attention to surficial geology, and quality of till and soil samples. Phase two should consist of trenching and/or drilling depending on results from phase one.





23.2, 316.6, 399.1, 1060.3, 36.1, 78.2, 107.5, 73.3, 607.5, 193.3, 133.5, 978.9, 1370.7, 3.2, 5.1, 9.4, 20.7, 54.3, 17.2, 17.8, 18.1, 21.3, 28.8, 14.8, 1.2, 37.4, 1569.2, 1697.2, 599.6, 703.2, 32.4, 326.8, 149.1



0.8, 7.9, 15.8, 2.1

17.7, 3.5

11.7, 14.4

1.3, 6.4

1.2, 1.9

1, 8.3

12.2

4.6

3

4.9

1.9

99.3

5

3.1

0.4

3.3

2.9

0.9

16.4

2.6

1

2.5

2.8

3.1

1.7

2.4

<u>Project</u>	<u>Name</u>	<u>Type</u>	<u>Easting</u>	<u>Northing</u>	<u>Description</u>	<u>Au</u>	<u>Ag</u>	<u>Cu</u>	<u>Mo</u>
Uduk PPY	UJR-01	Rock	331447	5927643	Fine qtz-bio granite with epidote on frags	0.9	0.1	2.8	0.52
Uduk PPY	UJR-02	Rock	331241	5927687	Fine grained qtz feld bio intrusive bleached punky	<0.5	<0.1	0.4	0.61
Uduk PPY	UPDR-01	Rock	330919	5928081	Qtz biotite granite with chlorite alteration 2% diss py poss trace cpy on frags	<0.5	1.3	17	0.5
Uduk PPY	UPR-01	Rock	331578	5927788	Patchy epidote altered felsite trace diss py poss? cpy	1.1	<0.1	5.1	2.4
Uduk PPY	UPR-02	Rock	331513	5927786	Heavily epidote and calcite altered andesite?	<0.5	0.2	3.2	2.6
Uduk PPY	UPR-03	Rock	331500	5927787	Weakly epidote altered and silicified andesite with clasts or clots of py and diss py tot. sulphide @ 0.25% trace cpy?	2.4	0.1	9.4	1
Uduk PPY	UPR-04	Rock	331069	5927798	Pyritic diorite cobble 0.6m x 0.6m x 0.6m sub rounded 3-4% py trace cpy	2.9	1.8	978.9	99.3
Uduk PPY	UPR-05	Rock	331009	5928005	Locally derived till pyritic diorite 2% py tr cpy weak epidote alteration, lim	2.6	7.2	1569.2	6.4
Uduk PPY	UPR-06	Rock	331009	5928005	As above with trace malachite trace cpy	2	3	1697.2	1
Uduk PPY	UPR-07	Rock	331040	5928007	As above no obvious Cu py to 10% as clots and diss	2.1	1.7	607.5	8.3
Uduk PPY	UPR-08	Rock	331062	5928032	Rep grab as above diorite with 1% diss py	1.4	0.3	149.1	3.5
Uduk PPY	UPR-08a	Rock	331040	5928067	Feldspar felsite dyke? tr patchy epidote minor diss py	1.7	<0.1	23.2	0.8
Uduk PPY	UPR-09	Rock	331033	5928056	Rep grab diorite with limonite and trace diss py poss cpy?	2	0.7	316.6	7.9
Uduk PPY	UPR-10	Rock	331033	5928056	Rep grab as above highly pyritic	3.2	1.2	399	15.8
Uduk PPY	UPR-11	Rock	331045	5928052	Granodiorite with trace diss py minor malachite	0.9	1.3	1060.3	2.1
Uduk PPY	UPR-12	Rock	331122	5927762	Granodiorite to diorite with @ 8% diss py trace cpy rep grabs from boulder in ditch, boulder @ 1.0m x 0.6m x 0.6m	5.5	2.4	1370.7	5
Uduk PPY	UPD-01	Soil	331448	5927743	Grey/brown till	<0.5	<0.1	20.7	2.5
Uduk PPY	UPD-02	Soil	331449	5927656	till with angular, dark brown, some round	1.1	<0.1	17.2	3.1
Uduk PPY	UPD-03	Soil	331449	5927558	Grey/orange till	<0.5	<0.1	17.8	1.7
Uduk PPY	UPD-04	Soil	331250	5927510	Dark Brown till	<0.5	<0.1	18.1	0.9
Uduk PPY	UPD-05	Soil	331249	5927610	Wet brown till	<0.5	0.1	21.3	2.9
Uduk PPY	UPD-06	Soil	331248	5927711	Dark brown till	<0.5	0.1	14.8	3.1
Uduk PPY	UPD-07	Soil	331200	5927840	Light brown till	<0.5	0.2	133.5	16.4
Uduk PPY	UPD-08	Soil	331091	5927653	Dark brown till, rusty granite rocks 10m approx from site towards road	2.1	<0.1	28.8	3.3
Uduk PPY	UPD-09	Soil	331036	5927938	Orange/brown till	<0.5	0.1	193.3	12.2
Uduk PPY	UPD-10	Soil	330930	5927768	Dark brown, rocky, till	4.2	<0.1	37.4	1.3
Uduk PPY	UPD-11	Soil	330948	5928025	Dark orange, poss "c" soil, rocky area	<0.5	1.1	599.6	14.4
Uduk PPY	UPD-12	Soil	331075	5928000	Dark brown till, some rust	0.5	0.2	73.3	1.9
Uduk PPY	UPD-13	Soil	331025	5928030	Grey soil	<0.5	0.3	32.4	1.2
Uduk PPY	UPD-14	Soil	331090	5928040	Dark brown till	<0.5	0.2	107.5	4.9
Uduk PPY	UPD-15	Soil	330941	5928075	Brown soil, quite poss "c" soil rocky area	2.3	4	703.2	11.7
Uduk PPY	UPD-16	Soil	331137	5928080	Dark brown till	<0.5	<0.1	78.2	3
Uduk PPY	UPD-18	Soil	331067	5928150	Rusty , angular, soil	<0.5	0.1	36.1	4.6

Statement of Costs

Truck Travel (round trip to Burns Lake from Whitehorse) 1100km x 0.65/km	\$715.00
Westland Helicopters (1.2 hours x \$1,200/hr)	\$1440.00
Acme Analytical (17 soils, 16 rocks)	\$887.27
Report Writing, Mailing and Duplication	\$2,360.00
Wages Nathaniel Rodden (2 field days x \$250/day) May 22-24, 2014	\$500.00
Wages Jarret Kreft (2 field days x \$250/day) May 22-24, 2014	\$500.00
Wages Justin Kreft (2 field days x \$250/day) May 22-24, 2014	\$500.00
Wages Bernie Kreft (2 days x \$500/day) May 22-24, 2014	\$1,000.00
Food, Field Supplies, Hotel (4 x 2 days x \$100/day)	\$800.00
Sample Shipping Greyhound	\$75.61
Sub Total	\$8,777.88
5% Management Fee	\$438.89
Total	\$9,216.77

Statement Of Qualifications

We, Jarret Kreft and Justin Kreft, participated in the exploration work described herein.

We have a combined 16 years prospecting experience in the Yukon and BC.

This report is based on fieldwork directed or conducted by the authors, and includes information from various publicly available assessment reports.

This report is based on fieldwork completed during the 2014 field season.

This report is based on fieldwork completed on the Uduk Porphyry Project

Respectfully Submitted,


Jarret Kreft


Justin Kreft

Acme Analytical Laboratories (Vancouver) Ltd.
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA
PHONE (604) 253-3158

Client: **Kreft, Bernie**
1 Locust Place
Whitehorse YT Y1A 5G9 CANADA

Submitted By: Bernie Kreft
Receiving Lab: Canada-Vancouver
Received: June 02, 2014
Report Date: June 20, 2014
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CERTIFICATE OF ANALYSIS

VAN14001704.2

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 83

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT Dispose of Reject After 90 days

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: **Kreft, Bernie**
1 Locust Place
Whitehorse YT Y1A 5G9
CANADA

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	83	Crush, split and pulverize 250 g rock to 200 mesh			VAN
AQ201	83	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
DRPLP	83	Warehouse handling / disposition of pulps			VAN
DRRJT	83	Warehouse handling / Disposition of reject			VAN
FA430	7	Lead Collection Fire - Assay Fusion - AAS Finish	30	Completed	VAN

ADDITIONAL COMMENTS



Acme Analytical Laboratories (Vancouver) Ltd.
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Project: None Given
Report Date: June 20, 2014

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

VAN14001704.2

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
[REDACTED]	Rock	0.36	<0.1	62.3	0.8	100	0.1	58.5	36.6	1444	6.22	31.4	1.8	<0.1	25	1.3	1.0	<0.1	96	3.58	0.052
[REDACTED]	Rock	1.17	0.1	40.7	1.4	74	0.1	50.1	32.3	1362	5.64	6.5	3.0	<0.1	61	0.2	2.2	<0.1	55	2.86	0.041
[REDACTED]	Rock	0.64	0.2	10.5	0.8	56	<0.1	37.3	21.8	1240	4.54	20.1	1.7	<0.1	148	0.2	0.7	<0.1	65	15.53	0.006
[REDACTED]	Rock	0.70	1.0	50.1	1.0	96	<0.1	61.0	47.7	1646	8.10	39.7	2.8	0.2	9	0.2	1.2	0.1	100	0.35	0.067
[REDACTED]	Rock	1.47	0.8	4347.9	43.1	614	12.9	41.4	255.5	1031	21.52	238.9	1.2	<0.1	5	3.4	2.7	4.4	124	0.18	0.016
[REDACTED]	Rock	0.97	1.9	164.5	3.8	18	0.1	6.7	20.8	286	4.26	2.8	11.4	0.6	54	<0.1	0.2	0.8	98	0.75	0.185
[REDACTED]	Rock	0.61	0.3	88.6	0.9	12	<0.1	0.9	1.9	189	0.92	1.5	0.6	5.1	55	<0.1	<0.1	<0.1	9	0.62	0.032
[REDACTED]	Rock	0.49	148.6	229.9	1.6	40	<0.1	5.1	9.5	395	3.02	<0.5	2.1	3.0	48	<0.1	<0.1	<0.1	58	0.42	0.113
UPR-01	Rock	0.94	2.4	5.1	7.9	55	<0.1	1.2	3.8	506	2.56	37.8	1.1	2.0	292	0.1	2.2	<0.1	11	3.68	0.129
UPR-02	Rock	1.21	2.6	3.2	40.2	194	0.2	3.8	9.8	1975	1.39	1.8	<0.5	1.2	213	0.4	1.0	0.4	19	10.74	0.100
UPR-03	Rock	0.71	1.0	9.4	15.4	65	0.1	1.9	5.2	1623	3.55	37.9	2.4	1.8	367	<0.1	1.7	<0.1	25	6.86	0.096
UPR-04	Rock	0.70	99.3	978.9	4.6	115	1.8	32.5	21.8	481	6.24	4.0	2.9	4.1	17	0.5	0.2	1.6	146	0.54	0.156
UPR-05	Rock	1.01	6.4	1569.2	2.7	107	7.2	29.8	12.9	301	5.29	9.0	2.6	4.1	45	0.3	0.3	1.8	73	0.64	0.152
UPR-06	Rock	1.06	1.0	1697.2	2.8	118	3.0	47.4	62.5	480	6.33	7.8	2.0	5.9	29	0.7	0.1	1.3	178	0.71	0.215
UPR-07	Rock	1.60	8.3	607.5	2.9	64	1.7	34.4	22.5	254	6.52	13.0	2.1	5.3	22	0.2	0.2	7.2	103	0.50	0.161
UPR-08	Rock	0.83	3.5	149.1	2.8	41	0.3	15.0	9.1	256	3.18	3.7	1.4	4.3	33	<0.1	0.3	0.7	106	0.69	0.184
UPR-8A	Rock	1.01	0.8	23.2	1.3	13	<0.1	3.0	2.3	92	0.96	3.1	1.7	20.0	13	<0.1	<0.1	0.7	10	0.20	0.029
UPR-09	Rock	0.84	7.9	316.6	2.0	31	0.7	12.2	6.2	203	3.47	1.4	2.0	3.6	34	<0.1	0.1	0.8	86	0.67	0.184
UPR-10	Rock	0.72	15.8	399.0	3.3	25	1.2	32.0	27.9	145	8.56	10.8	3.2	1.0	32	0.1	0.4	4.3	115	0.32	0.036
UPR-11	Rock	0.60	2.1	1060.3	1.9	85	1.3	35.4	15.4	366	3.92	2.6	0.9	3.8	45	0.5	<0.1	1.3	112	0.91	0.187
UPR-12	Rock	0.61	5.0	1370.7	4.3	122	2.4	30.2	14.9	471	6.29	3.9	5.5	4.9	22	1.0	<0.1	2.1	148	0.51	0.170
[REDACTED]	Rock	0.46	0.5	47.4	0.9	31	<0.1	5.1	7.1	340	4.02	0.6	2.2	1.3	47	<0.1	0.2	<0.1	82	0.57	0.128
[REDACTED]	Rock	0.70	0.7	67.4	1.1	20	<0.1	2.3	2.2	223	2.93	2.9	1.6	2.0	40	<0.1	<0.1	<0.1	63	0.34	0.092
[REDACTED]	Rock	0.72	0.5	41.9	1.6	41	<0.1	5.2	6.3	455	2.71	<0.5	1.8	2.6	55	<0.1	<0.1	<0.1	67	0.50	0.098
[REDACTED]	Rock	0.53	0.6	166.2	1.4	35	<0.1	4.5	6.0	439	3.09	0.5	2.0	2.8	51	<0.1	0.1	<0.1	82	0.41	0.113
[REDACTED]	Rock	0.44	244.2	213.5	1.7	37	<0.1	4.7	9.3	399	3.03	0.7	1.9	2.9	46	<0.1	<0.1	<0.1	59	0.42	0.114
[REDACTED]	Rock	0.61	40.7	131.3	1.2	40	<0.1	4.9	8.2	497	2.81	<0.5	1.1	3.2	69	<0.1	0.2	<0.1	67	0.47	0.107
[REDACTED]	Rock	0.69	13.6	154.2	1.3	35	<0.1	6.4	8.7	388	3.71	1.3	2.1	0.7	49	<0.1	1.0	<0.1	87	0.88	0.174
[REDACTED]	Rock	1.09	0.6	5.1	0.9	6	0.1	0.6	1.3	1322	1.20	<0.5	16.1	<0.1	966	<0.1	1.3	<0.1	6	24.03	0.003
[REDACTED]	Rock	0.85	1.9	64.2	9.4	82	0.4	20.9	16.7	881	4.45	7.9	1.6	0.8	129	0.6	0.3	<0.1	173	5.65	0.130

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Project: None Given
Report Date: June 20, 2014

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CERTIFICATE OF ANALYSIS

VAN14001704.2

Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	FA430
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.005
[REDACTED]	Rock	2	115	2.47	155	0.003	<1	1.95	0.096	0.05	<0.1	0.02	27.1	<0.1	<0.05	4	<0.5	<0.2
UPR-02	Rock	<1	44	1.07	95	0.001	2	0.35	0.118	0.03	0.1	0.03	26.1	<0.1	0.56	<1	0.7	<0.2
[REDACTED]	Rock	<1	14	1.77	35	<0.001	<1	0.17	0.018	0.02	<0.1	<0.01	4.1	<0.1	<0.05	<1	<0.5	<0.2
[REDACTED]	Rock	3	57	0.37	86	0.002	1	0.98	0.146	0.03	<0.1	0.02	33.8	0.1	<0.05	2	<0.5	<0.2
[REDACTED]	Rock	4	4	0.35	3	0.001	8	0.39	0.023	0.07	<0.1	0.04	6.0	8.9	>10	2	31.2	1.1
[REDACTED]	Rock	4	3	1.26	46	0.268	<1	1.21	0.126	0.10	0.1	0.25	2.6	<0.1	2.82	5	5.0	1.2
[REDACTED]	Rock	19	2	0.40	9	0.036	<1	0.60	0.079	0.04	<0.1	<0.01	1.7	<0.1	<0.05	3	<0.5	<0.2
[REDACTED]	Rock	7	12	0.88	258	0.215	<1	1.27	0.097	0.83	0.2	<0.01	4.9	0.5	0.42	7	1.2	<0.2
UPR-01	Rock	9	2	0.10	5	0.092	<1	0.31	0.097	0.02	0.5	0.03	3.4	<0.1	2.19	1	<0.5	<0.2
UPR-02	Rock	7	2	1.03	3	0.161	<1	1.33	0.021	0.02	1.0	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
UPR-03	Rock	8	1	1.15	23	0.154	2	2.20	0.160	0.44	0.5	0.03	7.8	0.5	2.22	5	<0.5	<0.2
UPR-04	Rock	9	83	2.11	48	0.229	<1	2.25	0.046	0.35	0.6	<0.01	8.5	0.4	3.21	12	<0.5	0.5
UPR-05	Rock	7	58	1.53	41	0.154	<1	1.98	0.069	0.17	1.0	<0.01	4.7	0.2	1.13	8	0.5	0.4
UPR-06	Rock	15	109	2.82	79	0.246	<1	2.96	0.075	0.73	0.8	<0.01	9.7	0.8	1.67	16	0.8	<0.2
UPR-07	Rock	6	67	1.68	23	0.117	<1	2.03	0.067	0.12	1.5	<0.01	7.0	0.1	2.67	11	0.9	3.3
UPR-08	Rock	16	20	1.34	163	0.190	<1	1.61	0.096	0.52	0.6	<0.01	4.3	0.5	0.16	6	<0.5	<0.2
UPR-8A	Rock	13	5	0.29	21	0.007	<1	0.58	0.045	0.13	0.1	<0.01	0.8	<0.1	<0.05	3	<0.5	0.3
UPR-09	Rock	9	33	0.98	79	0.155	1	1.45	0.087	0.25	0.5	<0.01	3.4	0.2	0.31	6	<0.5	<0.2
UPR-10	Rock	12	18	0.73	13	0.151	<1	1.14	0.043	0.09	0.2	<0.01	4.2	0.3	4.58	7	4.0	0.8
UPR-11	Rock	13	73	1.81	151	0.254	<1	2.04	0.074	0.73	0.5	<0.01	4.8	0.5	0.14	9	<0.5	0.2
UPR-12	Rock	11	74	1.99	43	0.296	<1	2.16	0.086	0.97	0.9	<0.01	10.3	1.0	3.68	12	1.3	0.4
[REDACTED]	Rock	6	7	1.02	162	0.230	<1	1.46	0.091	0.36	0.4	<0.01	4.2	0.2	0.39	7	<0.5	<0.2
[REDACTED]	Rock	6	6	0.68	130	0.201	<1	1.16	0.099	0.56	7.0	<0.01	3.2	0.3	0.36	6	<0.5	<0.2
[REDACTED]	Rock	7	10	0.73	139	0.185	<1	1.08	0.087	0.50	<0.1	<0.01	3.2	0.2	<0.05	6	<0.5	<0.2
[REDACTED]	Rock	7	11	0.91	206	0.225	<1	1.28	0.095	0.64	0.2	<0.01	4.9	0.3	0.40	7	<0.5	<0.2
[REDACTED]	Rock	7	11	0.89	240	0.219	<1	1.29	0.103	0.82	0.2	<0.01	4.8	0.5	0.40	7	0.9	<0.2
[REDACTED]	Rock	7	11	0.78	192	0.157	<1	1.02	0.079	0.42	0.1	<0.01	3.0	0.2	0.17	6	<0.5	<0.2
[REDACTED]	Rock	5	14	0.98	195	0.225	<1	1.42	0.115	0.42	0.2	<0.01	2.3	0.2	0.50	7	1.4	<0.2
[REDACTED]	Rock	3	1	0.30	21	<0.001	<1	0.26	0.002	0.04	<0.1	0.01	0.7	<0.1	0.58	<1	1.0	<0.2
[REDACTED]	Rock	6	73	1.55	19	0.226	6	3.05	0.038	0.03	0.2	0.02	8.9	<0.1	0.14	9	1.7	<0.2

CERTIFICATE OF ANALYSIS

VAN14001704.2

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
[REDACTED]	Rock	0.51	1.6	3.2	2.0	7	3.7	2.7	1.0	72	1.03	89.4	604.4	0.1	5	0.2	6.1	<0.1	7	0.03	0.005
[REDACTED]	Rock	1.44	1.1	17.6	1.8	51	0.3	16.3	12.6	439	2.09	186.7	127.5	<0.1	12	0.6	3.7	<0.1	14	0.56	0.006
[REDACTED]	Rock	1.44	6.5	46.4	3.7	98	1.0	33.3	25.3	1273	6.18	174.4	167.3	<0.1	20	0.4	18.7	<0.1	26	2.16	0.050
[REDACTED]	Rock	1.76	1.1	2.7	6.9	6	1.3	0.9	0.2	24	0.56	53.2	28.0	0.7	6	<0.1	7.5	<0.1	5	0.01	0.010
[REDACTED]	Rock	0.79	3.8	10.5	1.9	27	3.1	19.2	12.7	81	1.87	1757.3	3027.7	<0.1	2	0.2	33.8	<0.1	7	0.05	0.011
[REDACTED]	Rock	1.15	0.2	35.2	1.2	64	9.5	19.9	12.7	139	2.50	4771.3	6996.3	<0.1	21	0.8	>2000	<0.1	10	0.33	0.018
[REDACTED]	Rock	1.21	3.5	52.1	6.0	100	0.6	44.6	34.9	1061	7.81	278.0	180.6	<0.1	2	1.3	27.9	<0.1	33	0.03	0.058
[REDACTED]	Rock	1.15	0.7	12.5	7.3	21	0.7	3.4	1.0	35	1.04	37.9	16.9	0.8	4	<0.1	33.7	<0.1	5	<0.01	0.018
[REDACTED]	Rock	1.13	0.2	31.9	0.9	31	10.3	17.8	13.0	27	1.68	3591.6	6604.9	<0.1	6	0.4	>2000	<0.1	7	0.07	0.011
[REDACTED]	Rock	0.89	0.2	42.5	1.2	152	0.2	81.6	22.5	202	2.37	129.0	4.9	2.9	103	1.1	17.7	<0.1	4	2.82	0.065
[REDACTED]	Rock	1.00	0.2	49.4	2.8	109	0.2	244.4	33.6	452	4.58	341.9	1.7	6.9	263	0.5	2.8	<0.1	7	7.62	0.109
[REDACTED]	Rock	0.75	2.1	28.5	2.4	124	0.1	190.1	45.1	594	7.18	212.3	65.3	2.6	101	0.3	27.0	<0.1	6	4.81	0.013
[REDACTED]	Rock	1.28	<0.1	12.6	3.0	84	<0.1	36.6	5.0	553	1.21	46.6	1.8	0.6	910	0.5	1.3	<0.1	<2	11.13	0.007
[REDACTED]	Rock	0.44	<0.1	10.5	4.4	30	<0.1	64.9	9.1	927	1.82	80.2	<0.5	2.2	1581	0.1	1.0	<0.1	4	17.63	0.042
[REDACTED]	Rock	1.63	1.2	36.7	2.3	106	<0.1	202.6	29.3	608	5.15	264.0	<0.5	7.0	201	0.3	3.7	<0.1	8	6.50	0.098
[REDACTED]	Rock	0.73	<0.1	4.3	0.4	25	<0.1	4.3	1.7	309	0.92	13.0	7.6	<0.1	13	0.7	1.4	<0.1	4	0.59	0.017
[REDACTED]	Rock	0.46	2.5	5.4	2.9	22	1.2	5.1	0.9	77	0.66	17.3	4.4	1.6	64	0.3	3.8	<0.1	5	0.68	0.287
[REDACTED]	Rock	0.81	0.4	1.2	0.2	2	0.2	1.3	0.2	26	0.24	1.8	11.8	<0.1	1	<0.1	4.8	<0.1	<2	0.02	<0.001
[REDACTED]	Rock	0.71	11.9	36.0	4.4	44	0.2	32.5	12.2	347	2.14	1.2	<0.5	3.8	15	0.6	0.3	0.7	32	0.43	0.100
[REDACTED]	Rock	0.28	<0.1	0.9	1.3	1	<0.1	3.2	22.2	22	3.28	2.3	1.5	1.0	3	<0.1	0.3	<0.1	<2	0.03	0.014
UPDR-01	Rock	0.50	17.0	326.8	2.2	80	1.3	31.9	20.3	433	4.66	5.6	<0.5	3.8	30	0.1	0.6	0.7	110	0.63	0.186
UJR-01	Rock	0.52	2.8	54.3	5.4	114	0.1	6.5	6.8	342	2.62	0.6	0.9	5.9	18	<0.1	0.3	0.5	51	0.35	0.062
UJR-02	Rock	0.61	0.4	1.2	4.3	8	<0.1	0.6	0.3	132	0.60	<0.5	<0.5	10.3	2	<0.1	1.2	0.1	<2	0.01	0.006

CERTIFICATE OF ANALYSIS

VAN14001704.2

Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	FA430	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	Au	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
MDL	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	0.005	
SR001	Rock	<1	3	<0.01	275	<0.001	1	0.13	0.003	0.07	0.1	0.03	0.9	0.1	<0.05	<1	2.4	<0.2	0.347
SR002	Rock	<1	7	0.14	247	<0.001	1	0.21	0.004	0.09	0.1	0.02	5.8	0.1	0.15	<1	0.7	<0.2	
SR003	Rock	1	9	0.48	125	0.001	3	0.35	0.007	0.29	0.1	0.07	9.3	0.2	0.38	<1	1.0	<0.2	
SR004	Rock	6	4	<0.01	72	<0.001	<1	0.15	0.002	0.13	<0.1	0.08	0.9	<0.1	0.10	<1	0.7	<0.2	
SR005	Rock	<1	8	0.03	57	<0.001	2	0.21	0.002	0.12	0.1	0.03	1.9	0.2	1.28	<1	18.2	<0.2	3.018
SR006	Rock	<1	7	0.13	81	<0.001	3	0.29	0.004	0.17	<0.1	0.08	2.4	0.9	1.40	<1	50.7	<0.2	6.680
SR007	Rock	2	12	0.05	163	0.001	3	0.41	0.009	0.33	0.2	0.05	11.2	0.3	0.51	1	1.5	<0.2	
SR008	Rock	7	5	<0.01	64	<0.001	<1	0.15	0.002	0.10	<0.1	0.07	1.2	<0.1	<0.05	<1	1.4	<0.2	
SR009	Rock	<1	6	0.02	73	<0.001	<1	0.22	0.003	0.14	<0.1	0.07	0.8	0.9	1.73	<1	>100	<0.2	5.926
SR010	Rock	3	19	0.42	46	<0.001	<1	0.20	0.009	0.13	<0.1	0.03	2.2	<0.1	0.44	<1	5.8	<0.2	
SR011	Rock	3	32	1.01	68	<0.001	1	0.32	0.017	0.20	<0.1	0.02	4.6	0.1	1.07	<1	11.0	<0.2	
SR012	Rock	2	19	0.56	35	<0.001	<1	0.18	0.019	0.09	<0.1	0.03	6.7	<0.1	0.73	<1	2.6	<0.2	
SR013	Rock	2	5	0.24	14	<0.001	<1	0.06	0.004	0.03	<0.1	0.01	4.2	<0.1	0.31	<1	2.4	<0.2	
SR014	Rock	3	12	0.53	34	<0.001	<1	0.14	0.008	0.09	<0.1	0.02	4.2	<0.1	0.11	<1	<0.5	<0.2	
SR015	Rock	5	30	0.71	82	<0.001	<1	0.33	0.020	0.21	<0.1	0.02	5.3	0.1	0.34	<1	1.8	<0.2	
SR016	Rock	<1	3	0.17	51	<0.001	<1	0.06	0.002	0.03	<0.1	0.03	1.5	<0.1	<0.05	<1	<0.5	<0.2	
SR017	Rock	7	4	0.03	61	0.002	3	0.26	0.001	0.12	0.1	0.01	0.8	0.1	<0.05	<1	<0.5	0.4	
SR018	Rock	<1	2	<0.01	3	<0.001	<1	0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2	
SR019	Rock	9	14	0.21	271	0.052	<1	0.42	0.029	0.04	0.3	<0.01	1.7	<0.1	<0.05	2	2.0	0.2	
SR020	Rock	3	3	0.24	2	<0.001	<1	0.21	0.002	<0.01	<0.1	<0.01	0.3	<0.1	3.29	<1	<0.5	<0.2	
UPDR-01	Rock	8	60	2.15	31	0.096	<1	2.27	0.064	0.08	0.5	<0.01	5.6	<0.1	1.19	10	<0.5	<0.2	
UJR-01	Rock	9	14	0.85	75	0.200	<1	1.10	0.068	0.50	0.2	0.01	6.8	0.3	<0.05	5	<0.5	<0.2	
UJR-02	Rock	5	<1	0.04	5	0.002	<1	0.27	0.048	0.12	<0.1	<0.01	0.5	<0.1	<0.05	2	<0.5	<0.2	

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Client: **Kreft, Bernie**
1 Locust Place
Whitehorse YT Y1A 5G9 CANADA

Submitted By: Bernie Kreft
Receiving Lab: Canada-Vancouver
Received: June 02, 2014
Report Date: June 10, 2014
Page: 1 of 5

CERTIFICATE OF ANALYSIS

VAN14001703.1

CLIENT JOB INFORMATION

Project: None Given
Shipment ID:
P.O. Number
Number of Samples: 107

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Kreft, Bernie
1 Locust Place
Whitehorse YT Y1A 5G9
CANADA

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	107	Dry at 60C			VAN
SS80	107	Dry at 60C sieve 100g to -80 mesh			VAN
AQ201	107	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
DRPLP	107	Warehouse handling / disposition of pulps			VAN

ADDITIONAL COMMENTS



CERTIFICATE OF ANALYSIS

VAN14001703.1

Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
UPD-01	Soil	1.2	19.4	6.0	95	0.3	25.5	7.1	305	2.07	9.3	4.5	3.5	22	0.6	1.2	0.1	36	0.32	0.097	15
UPD-02	Soil	4.1	85.6	14.8	146	0.5	72.1	20.8	882	4.31	33.8	4.6	4.0	30	1.1	3.1	0.2	64	0.43	0.162	14
UPD-03	Soil	2.9	43.5	9.1	83	0.2	44.4	13.2	485	2.71	19.3	8.5	3.2	29	0.5	3.0	0.2	50	0.39	0.089	14
UPD-04	Soil	3.2	78.3	15.2	136	<0.1	50.6	16.0	796	3.86	24.9	8.2	5.8	30	0.6	3.5	0.2	54	0.39	0.103	19
UPD-05	Soil	2.9	34.3	8.9	138	0.2	42.0	10.5	358	2.90	17.7	6.3	4.5	27	0.5	2.4	0.2	44	0.36	0.146	18
UPD-06	Soil	22.5	126.5	32.5	307	0.7	125.1	29.7	1912	5.33	161.1	18.5	7.9	17	2.9	15.6	0.8	16	0.12	0.062	8
UPD-07	Soil	1.9	30.2	8.0	78	0.2	39.1	10.6	261	2.55	14.3	5.6	4.0	18	0.4	1.4	0.2	39	0.25	0.066	13
UPD-08	Soil	4.0	46.9	18.3	118	0.3	48.1	16.8	985	4.08	38.0	4.8	2.2	33	1.0	2.9	0.3	53	0.47	0.091	15
UPD-09	Soil	5.3	66.1	15.3	127	0.5	61.4	20.0	952	3.74	31.5	14.0	5.3	41	1.1	6.3	0.3	52	0.55	0.128	18
UPD-10	Soil	1.4	31.2	8.2	75	0.1	39.0	10.5	410	2.50	13.1	4.1	4.2	23	0.4	1.5	0.1	41	0.34	0.084	15
UPD-11	Soil	1.2	28.7	7.8	63	<0.1	39.8	10.6	372	2.52	10.1	5.6	4.7	21	0.2	1.0	0.1	40	0.28	0.081	16
UPD-12	Soil	0.9	16.6	5.7	73	<0.1	20.6	7.0	348	1.96	5.4	1.6	4.1	16	0.1	0.6	0.1	35	0.21	0.047	17
UPD-13	Soil	1.8	27.1	6.7	110	0.4	33.9	8.5	286	2.38	14.3	3.2	3.2	18	0.6	1.5	0.1	35	0.28	0.117	12
UPD-14	Soil	1.0	28.7	7.4	62	<0.1	35.8	10.4	497	2.33	8.3	2.8	4.3	17	0.2	1.0	0.1	36	0.26	0.065	15
UPD-15	Soil	1.2	42.2	9.5	72	<0.1	40.3	11.8	601	2.66	12.2	4.8	4.9	19	0.2	1.7	0.1	41	0.26	0.068	14
UPD-16	Soil	0.8	19.9	5.5	69	0.1	26.9	7.6	388	2.08	7.8	2.8	3.7	19	0.2	0.9	<0.1	37	0.29	0.108	15
UPD-17	Soil	2.5	20.7	6.9	32	<0.1	10.8	4.9	247	1.68	3.6	<0.5	2.5	32	<0.1	0.1	0.2	40	0.34	0.051	16
UPD-18	Soil	3.1	17.2	9.8	75	<0.1	13.2	10.4	489	2.51	3.6	1.1	2.3	28	0.1	0.2	0.5	60	0.33	0.045	11
UPD-19	Soil	1.7	17.8	8.9	53	<0.1	18.4	10.2	402	2.99	5.2	<0.5	3.1	30	<0.1	0.3	0.2	70	0.38	0.044	23
UPD-20	Soil	0.9	18.1	8.4	40	<0.1	19.4	9.3	442	2.70	5.5	<0.5	2.7	33	<0.1	0.3	0.2	60	0.33	0.046	13
UPD-21	Soil	2.9	21.3	8.9	50	0.1	17.5	9.4	515	2.64	5.3	<0.5	2.7	39	0.1	0.2	0.2	60	0.39	0.045	21
UPD-22	Soil	3.1	14.8	8.6	55	0.1	14.8	8.2	271	2.94	5.9	<0.5	2.4	23	0.1	0.2	0.2	65	0.26	0.036	17
UPD-23	Soil	16.4	133.5	4.7	49	0.2	21.6	10.9	352	3.44	11.4	<0.5	3.1	39	<0.1	0.3	0.4	82	0.46	0.116	12
UPD-24	Soil	3.3	28.8	14.9	51	<0.1	16.8	9.2	474	2.74	7.2	2.1	2.9	38	0.1	0.3	0.5	59	0.48	0.066	17
UPD-25	Soil	12.2	193.3	5.7	46	0.1	22.1	9.8	283	3.20	7.9	<0.5	2.8	23	<0.1	0.2	0.4	71	0.23	0.059	8
UPD-26	Soil	1.3	37.4	7.6	38	<0.1	15.9	7.0	272	2.20	4.5	4.2	2.8	29	<0.1	0.2	0.4	52	0.31	0.056	11
UPD-27	Soil	14.4	599.6	5.6	164	1.1	30.0	11.0	362	9.38	12.2	<0.5	3.6	36	0.3	0.2	2.8	208	0.54	0.252	11
UPD-28	Soil	1.9	73.3	5.4	42	0.2	17.1	8.0	211	2.45	6.2	0.5	1.7	24	<0.1	0.2	0.2	58	0.21	0.054	7
UPD-29	Soil	1.2	32.4	7.1	60	0.3	18.4	10.2	270	2.72	6.9	<0.5	2.5	14	<0.1	0.3	0.2	61	0.13	0.056	8
UPD-30	Soil	4.9	107.5	6.3	55	0.2	26.6	12.5	280	3.36	11.4	<0.5	2.1	25	0.1	0.4	0.5	70	0.20	0.056	7

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Project: None Given
Report Date: June 10, 2014

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CERTIFICATE OF ANALYSIS

VAN14001703.1

Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	
Analyte	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2	
UPD-01	Soil	28	0.43	84	0.036	<1	1.00	0.008	0.05	<0.1	0.02	2.6	<0.1	<0.05	3	<0.5	<0.2
UPD-02	Soil	63	0.65	152	0.045	1	1.58	0.012	0.10	0.1	0.04	5.6	0.2	<0.05	4	1.6	<0.2
UPD-03	Soil	53	0.55	117	0.038	1	1.25	0.010	0.06	<0.1	0.02	3.9	0.1	<0.05	4	0.8	<0.2
UPD-04	Soil	51	0.60	167	0.042	<1	1.64	0.010	0.11	0.1	0.14	9.0	0.2	<0.05	4	0.6	<0.2
UPD-05	Soil	43	0.56	107	0.030	<1	1.43	0.009	0.06	<0.1	0.02	3.4	<0.1	<0.05	4	0.9	<0.2
UPD-06	Soil	11	0.13	141	0.002	<1	0.58	0.006	0.06	<0.1	0.26	8.8	0.3	<0.05	<1	4.5	0.2
UPD-07	Soil	33	0.46	169	0.029	<1	1.33	0.007	0.05	<0.1	0.02	2.6	<0.1	<0.05	3	<0.5	<0.2
UPD-08	Soil	42	0.53	188	0.028	<1	1.29	0.009	0.07	0.1	0.04	4.8	0.2	<0.05	4	1.7	<0.2
UPD-09	Soil	46	0.57	174	0.036	1	1.34	0.011	0.11	0.1	0.13	7.4	0.3	<0.05	4	<0.5	<0.2
UPD-10	Soil	35	0.49	124	0.044	<1	1.21	0.010	0.06	0.1	0.03	3.3	<0.1	<0.05	3	<0.5	<0.2
UPD-11	Soil	34	0.55	99	0.048	<1	1.48	0.009	0.07	<0.1	0.03	3.3	<0.1	<0.05	4	<0.5	<0.2
UPD-12	Soil	28	0.42	104	0.034	<1	1.20	0.008	0.05	<0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
UPD-13	Soil	31	0.47	101	0.027	1	1.18	0.007	0.05	<0.1	0.03	2.9	<0.1	<0.05	3	0.7	<0.2
UPD-14	Soil	32	0.46	104	0.041	1	1.16	0.006	0.05	<0.1	0.04	2.9	<0.1	<0.05	3	<0.5	<0.2
UPD-15	Soil	37	0.51	147	0.044	1	1.29	0.008	0.08	<0.1	0.08	4.9	0.1	<0.05	3	<0.5	<0.2
UPD-16	Soil	32	0.44	91	0.041	<1	1.22	0.007	0.06	0.1	0.03	2.5	<0.1	<0.05	3	<0.5	<0.2
UPD-17	Soil	22	0.32	73	0.108	<1	0.84	0.022	0.03	<0.1	0.02	3.1	<0.1	<0.05	3	<0.5	<0.2
UPD-18	Soil	26	0.36	75	0.141	<1	1.44	0.013	0.03	<0.1	0.01	2.6	<0.1	<0.05	5	<0.5	<0.2
UPD-19	Soil	28	0.65	120	0.133	<1	2.03	0.014	0.05	0.1	0.02	5.2	<0.1	<0.05	6	<0.5	<0.2
UPD-20	Soil	28	0.42	142	0.124	<1	1.72	0.016	0.03	<0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
UPD-21	Soil	28	0.51	99	0.118	<1	1.62	0.023	0.04	<0.1	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2
UPD-22	Soil	26	0.33	64	0.122	<1	1.49	0.012	0.04	<0.1	0.02	2.6	<0.1	<0.05	6	<0.5	<0.2
UPD-23	Soil	48	0.92	80	0.133	<1	1.51	0.018	0.09	0.2	<0.01	4.9	0.1	<0.05	7	<0.5	<0.2
UPD-24	Soil	27	0.48	96	0.126	<1	1.40	0.022	0.05	<0.1	0.02	3.9	<0.1	<0.05	4	<0.5	<0.2
UPD-25	Soil	36	0.56	98	0.138	<1	1.79	0.011	0.05	0.2	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
UPD-26	Soil	27	0.43	75	0.125	<1	1.27	0.016	0.04	<0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
UPD-27	Soil	109	2.24	169	0.366	<1	3.55	0.015	0.45	0.6	0.04	10.1	0.7	0.14	19	0.7	0.7
UPD-28	Soil	27	0.34	71	0.105	<1	1.43	0.011	0.03	0.1	0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
UPD-29	Soil	29	0.42	125	0.116	<1	1.93	0.009	0.04	<0.1	0.02	2.7	<0.1	<0.05	6	<0.5	<0.2
UPD-30	Soil	34	0.53	97	0.112	<1	1.80	0.012	0.04	0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2

CERTIFICATE OF ANALYSIS

VAN14001703.1

Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
UPD-15	Soil	11.7	703.2	6.1	89	4.0	24.3	4.1	624	11.83	9.1	2.3	6.3	139	0.1	0.3	4.9	247	0.73	0.368	18
UPD-16	Soil	3.0	78.2	6.2	39	<0.1	19.0	10.1	268	2.83	11.2	<0.5	2.7	36	<0.1	0.4	0.4	63	0.33	0.078	10
UPD-17	Soil	0.8	12.7	4.0	66	0.2	19.3	5.9	197	1.63	7.1	2.9	2.0	13	0.3	0.5	0.1	37	0.22	0.071	9
UPD-18	Soil	4.6	36.1	9.5	104	0.1	21.7	13.7	400	3.78	10.2	<0.5	2.0	25	0.2	0.3	0.9	70	0.29	0.113	7
USB-01	Soil	1.8	27.6	6.0	37	<0.1	9.1	7.6	270	2.87	6.7	<0.5	1.7	22	<0.1	0.4	0.1	65	0.21	0.062	6
USB-02	Soil	1.8	35.4	5.2	40	<0.1	6.6	5.8	251	2.28	4.2	<0.5	1.5	22	<0.1	0.3	0.1	54	0.17	0.037	6
USB-03	Soil	9.7	141.1	5.7	35	<0.1	8.7	9.2	401	3.61	8.6	1.1	2.5	41	<0.1	0.3	0.9	72	0.40	0.040	10
USB-04	Soil	3.1	14.0	4.8	127	<0.1	9.7	6.1	228	2.50	4.2	1.5	1.3	25	0.4	0.3	0.1	56	0.24	0.041	6
USB-05	Soil	2.6	31.1	5.5	49	0.2	9.0	6.3	244	2.77	4.4	0.6	1.5	31	0.1	0.2	0.1	61	0.24	0.039	7
USB-06	Soil	0.9	9.7	4.3	37	0.1	6.1	4.3	191	1.92	2.8	<0.5	1.3	21	<0.1	0.2	<0.1	46	0.18	0.045	5
USB-07	Soil	2.4	51.4	6.9	46	<0.1	12.1	7.5	295	2.67	7.4	<0.5	1.6	24	<0.1	0.3	<0.1	60	0.32	0.023	7
USB-08	Soil	9.1	36.3	7.6	49	<0.1	7.1	5.4	238	2.31	4.1	1.3	1.7	20	0.1	0.2	0.1	52	0.23	0.036	7
USB-09	Soil	4.8	10.3	5.6	40	0.1	6.5	5.6	270	1.94	4.4	<0.5	2.4	24	0.1	0.2	0.1	45	0.24	0.037	8
USB-10	Soil	44.0	143.4	6.3	34	<0.1	9.0	7.9	232	2.54	3.8	<0.5	1.5	18	0.2	0.5	0.1	53	0.19	0.028	6
USB-11	Soil	5.8	42.7	5.0	59	0.1	7.2	6.2	356	2.07	3.1	<0.5	1.2	18	<0.1	0.1	<0.1	39	0.18	0.060	5
USB-12	Soil	1.8	25.3	4.4	35	<0.1	7.9	5.4	208	2.09	3.5	0.9	1.4	14	<0.1	0.3	<0.1	47	0.13	0.041	6
USB-13	Soil	2.7	76.1	6.0	38	<0.1	17.9	9.4	241	2.63	10.8	<0.5	2.5	34	<0.1	0.3	0.4	60	0.31	0.072	10

CERTIFICATE OF ANALYSIS

VAN14001703.1

Method	Analyte	Unit	MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201		
				Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
				ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
				1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
UPD-15	Soil			151	2.78	283	0.233	1	4.26	0.031	1.00	0.6	0.05	15.0	1.1	1.02	21	1.1	1.0
UPD-16	Soil			32	0.53	93	0.114	<1	1.81	0.014	0.03	0.2	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
UPD-17	Soil			28	0.31	77	0.039	<1	0.90	0.007	0.04	0.1	0.02	2.3	<0.1	<0.05	3	<0.5	<0.2
UPD-18	Soil			28	0.41	64	0.093	<1	2.15	0.010	0.06	0.1	0.05	2.8	<0.1	<0.05	8	<0.5	<0.2
USD-01	Soil			16	0.31	70	0.110	<1	1.50	0.014	0.04	0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
USD-02	Soil			15	0.33	97	0.104	<1	1.30	0.010	0.04	0.1	0.02	2.8	<0.1	<0.05	4	<0.5	<0.2
USD-03	Soil			14	0.55	75	0.113	<1	1.29	0.034	0.04	0.2	0.01	4.3	<0.1	<0.05	4	<0.5	<0.2
USD-04	Soil			17	0.31	68	0.123	<1	1.39	0.013	0.04	0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
USD-05	Soil			15	0.33	95	0.111	<1	1.23	0.012	0.05	0.1	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
USD-06	Soil			11	0.18	41	0.079	<1	1.00	0.009	0.03	0.1	0.03	2.0	<0.1	<0.05	3	<0.5	<0.2
USD-07	Soil			14	0.48	78	0.108	<1	1.80	0.014	0.04	0.2	0.02	3.7	<0.1	<0.05	5	<0.5	<0.2
USD-08	Soil			12	0.29	73	0.094	1	1.19	0.012	0.05	0.2	0.01	2.5	<0.1	<0.05	5	<0.5	<0.2
USD-09	Soil			10	0.24	74	0.075	<1	1.23	0.010	0.06	0.2	0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
USD-10	Soil			11	0.45	128	0.128	<1	1.66	0.012	0.03	0.1	0.03	2.9	<0.1	<0.05	5	<0.5	<0.2
USD-11	Soil			10	0.32	95	0.061	<1	1.23	0.009	0.04	0.4	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
USD-12	Soil			14	0.29	69	0.091	<1	1.22	0.009	0.04	0.1	0.01	2.3	<0.1	<0.05	4	<0.5	<0.2
USD-13	Soil			29	0.49	94	0.105	<1	1.69	0.014	0.03	0.1	<0.01	2.6	<0.1	<0.05	5	<0.5	<0.2