

MINERAL TITLES BRANCH  
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VANCOUVER, B.C.

**GEOLOGICAL, TOPOGRAPHICAL  
& PROSPECTING REPORT**

on the

**DKSYN CLAIMS**

NTS Map Sheet 94C 002

**BC Geological Survey  
Assessment Report  
32993**

by

**D.K. BRAGG**  
OWNER-OPERATOR-AUTHOR  
Surrey, B.C.

February 25, 2012

Event 5116934

GEOLOGICAL SURVEY BRANCH  
ASSESSMENT REPORT

32,993

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## **INTRODUCTION & SUMMARY**

In 2005, D.K. Bragg started to acquire claims within the Hogem Batholith to the north of the Lorraine copper-gold deposit with the DK 1-3 Claims. Since then, many more claims have been acquired, i.e., the OS and DKSYN Claims. Since August 2010, four more claims were acquired so that the DKSYN Claims are now contiguous with the DK 1-3 Claims. Since then, even more claims have been acquired to add to the package.

Preliminary cursory prospecting of the extensive road area of the Osilinka River and the HaHa Creek area suggested that the Duckling Creek Complex (DCC) existed well beyond that mapped by Harlan Meade while doing his thesis (1975). Most of the known showings, Lorraine, et al, are within the DCC.

The current investigation was centred on the north side of the Osilinka River to the west of the work that was done during the period October 16 to 20, 2010 when it was recognized that the DCC existed in this area. This work was done on DKSYN 13, Tenure No. 729782, DKSYN 15 Tenure No. 729322, and DKSYN 17 Tenure No. 729842.

## **LOCATION & ACCESSIBILITY**

DKSYN Claims 13, 15 and 17 Claims are roughly 285 road kilometres from MacKenzie via the Northgate haul road to the Osilinka Camp; thence south by Usilka Lake to one kilometre of Osilinka Bridge Three where the Osilinka Main Line starts; thence west and northwest to Osilinka Bridge Four, and onto the road system on the north side of West Osilinka River westerly. Most of the way is via the well-maintained Northgate haul road. However, from Osilinka Camp to Osilinka Bridge Four and beyond, the road is not maintained and can be very rough in places.

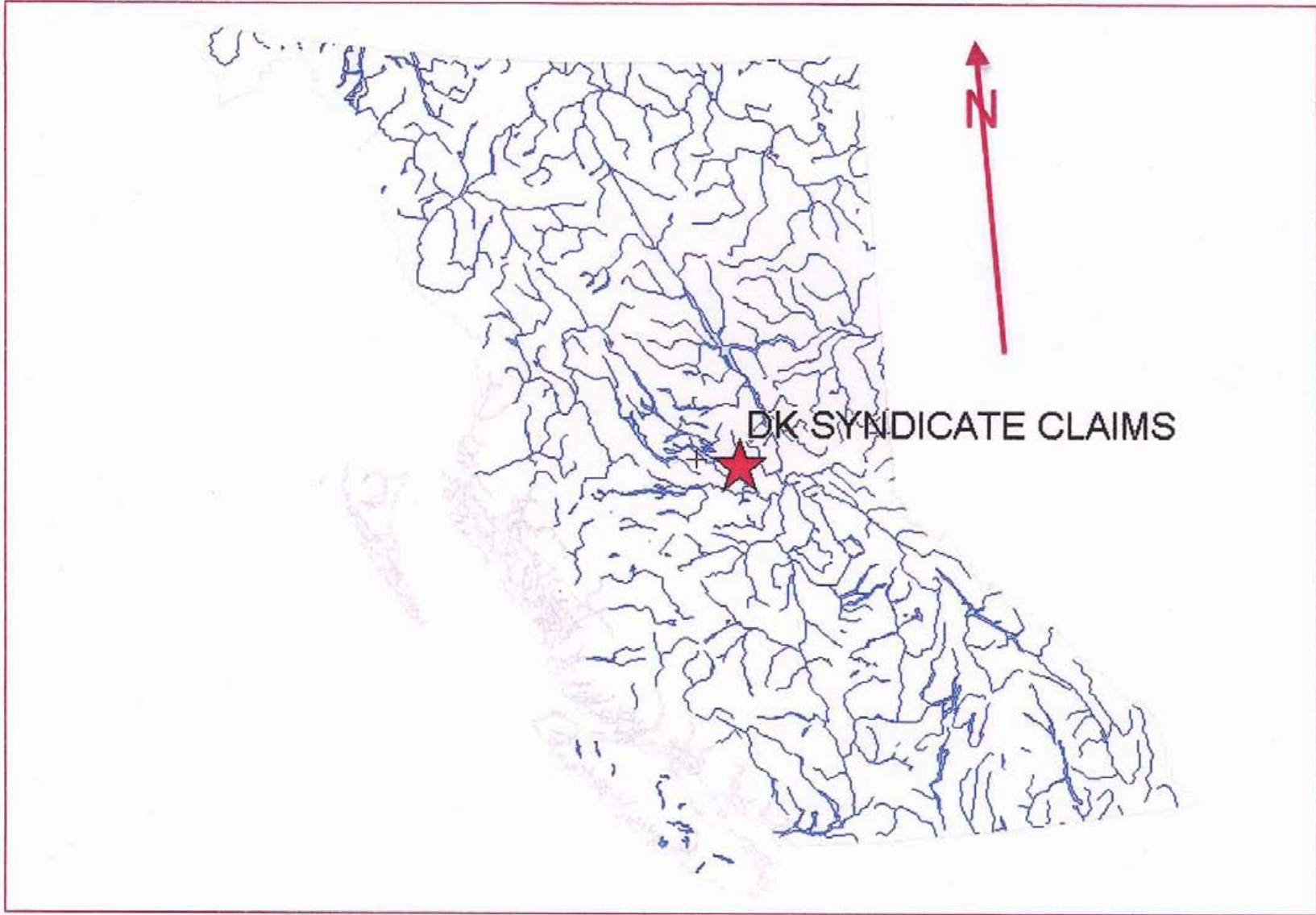
## GEOLOGY

The geology of the Hogem Batholith and, in particular, the deposits of the Lorraine and many other showings in the area, i.e., Slide, Tam, Boundary, etc., have been well described by H.D. Meade, G.L. Barnet, D.K. Mustard, Peter Fox, B.J. Price, and many others. (See References and Bibliography) (See also Fig. 6 Geology of the Hogan Batholith and surrounding area by H.D. Meade) (See also Fig. 4 Regional Geology)

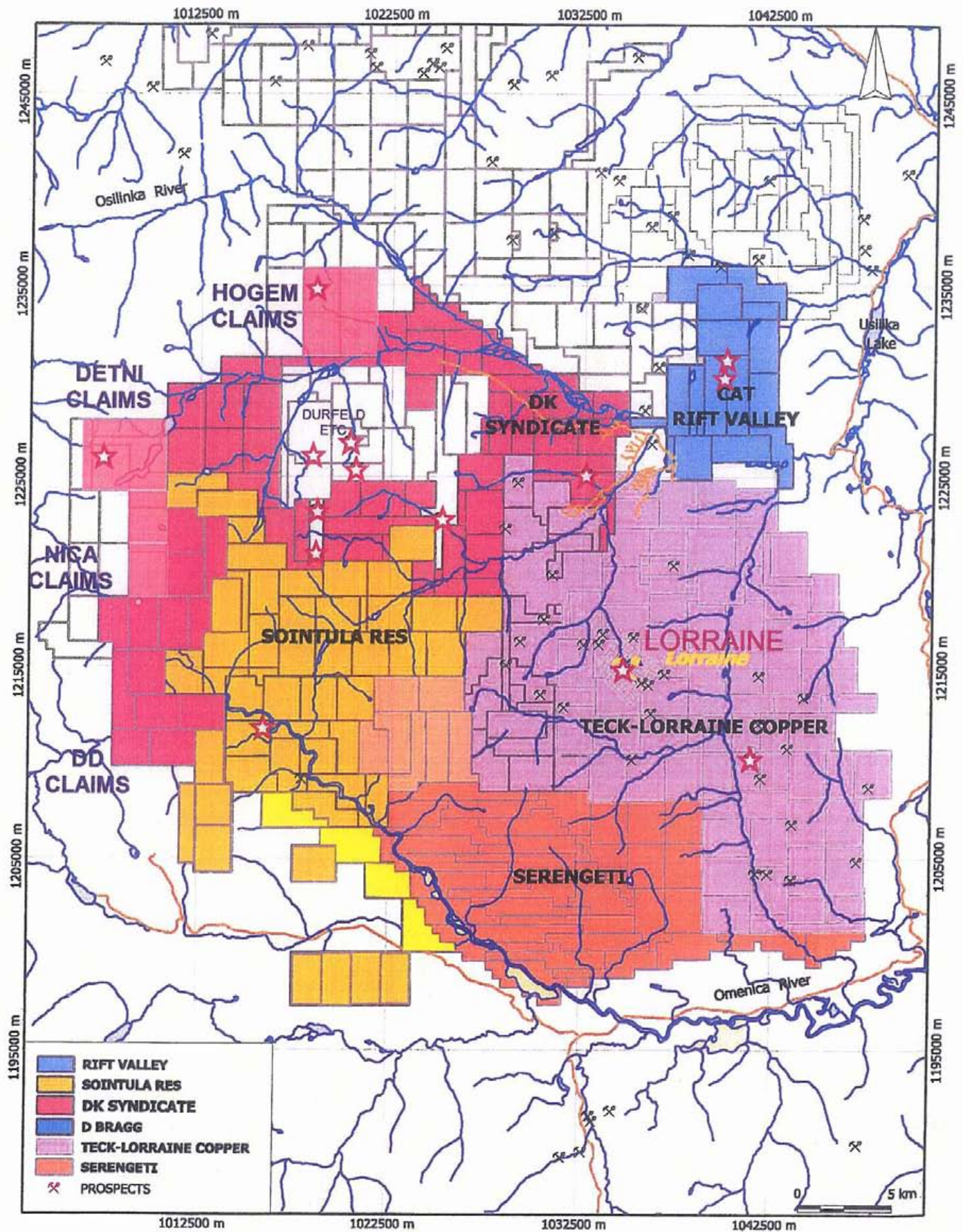
The Lorraine Deposit and most of the other showings occur within the Duckling Creek Complex. Much of the DCC was mapped by Meade but it was recognized that some of the complex was missed. (See Fig. 6 DCC mapped by Meade). Much of the DCC is highly magnetic and is outlined by the regional magnetics. (See Fig. 5 Regional Magnetics)

The DCC is a very complex set of rocks varying from monzonite and syenite including megacrystic syenite to proxinite with a host of intermediate phases. The complex is not well understood and has also been referred to as migmatite, metasomatite and tenite.

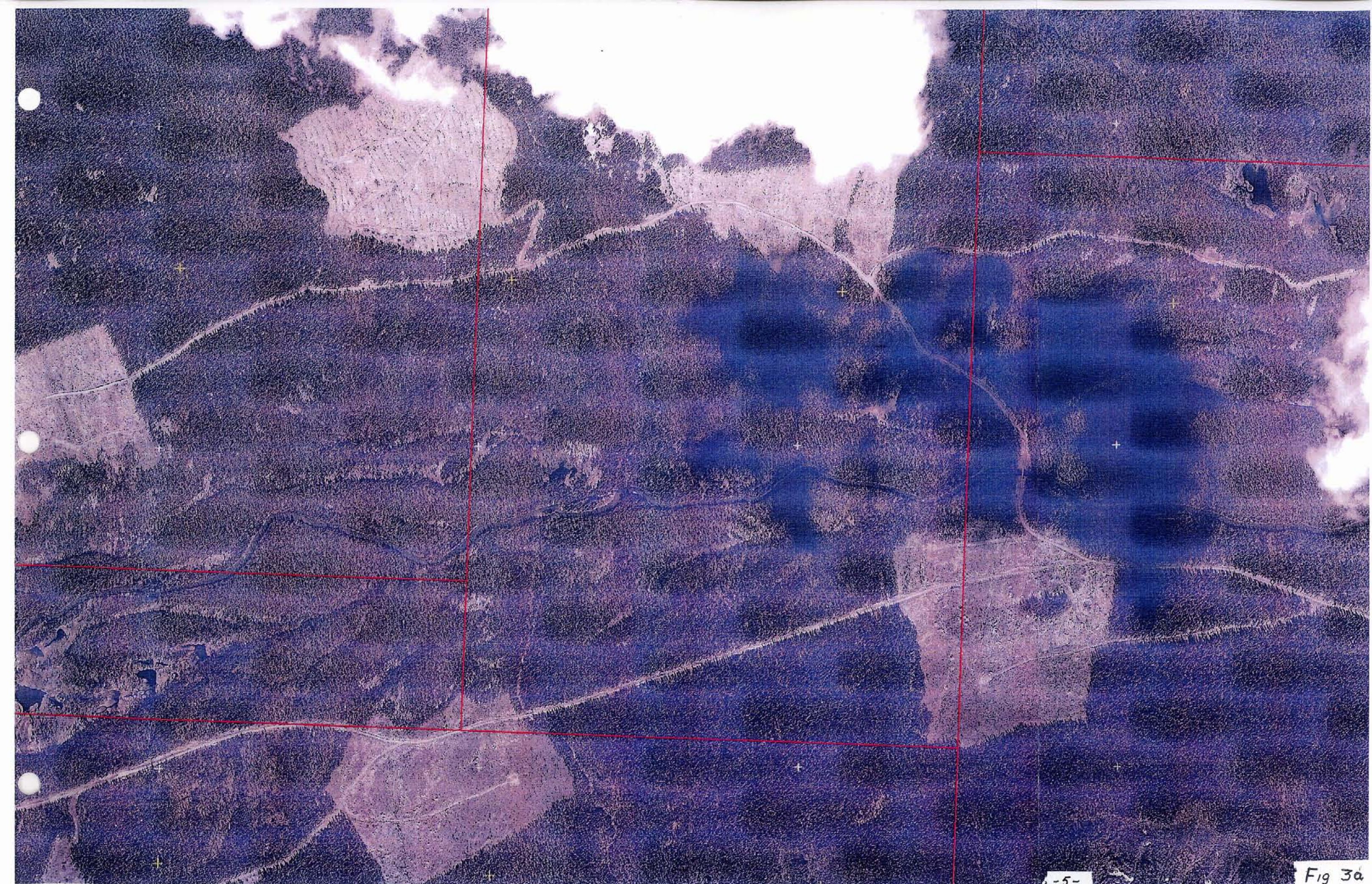




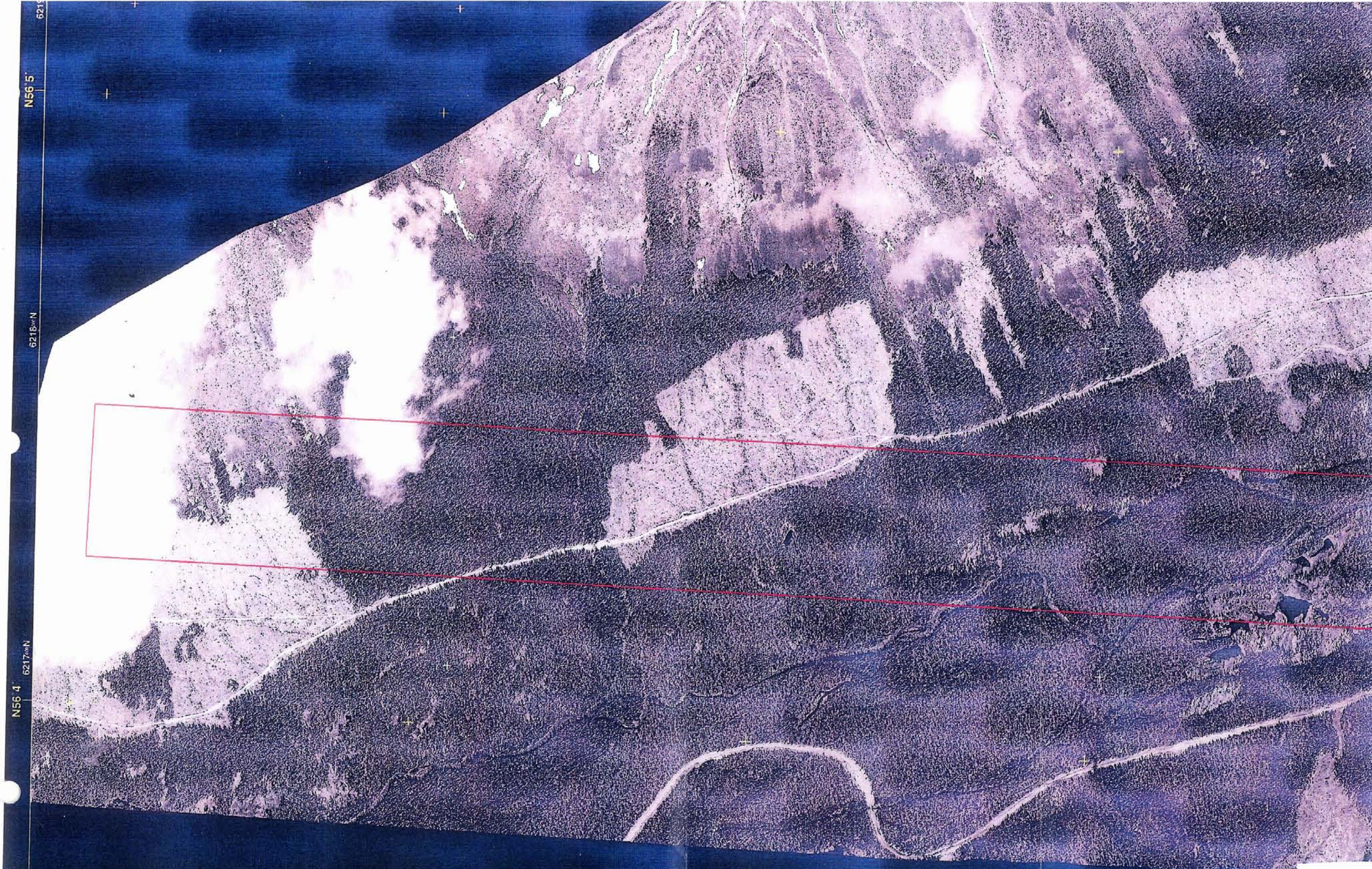












6215

N56 5'

6218<sup>00</sup>N

6217<sup>00</sup>N

N56 4'







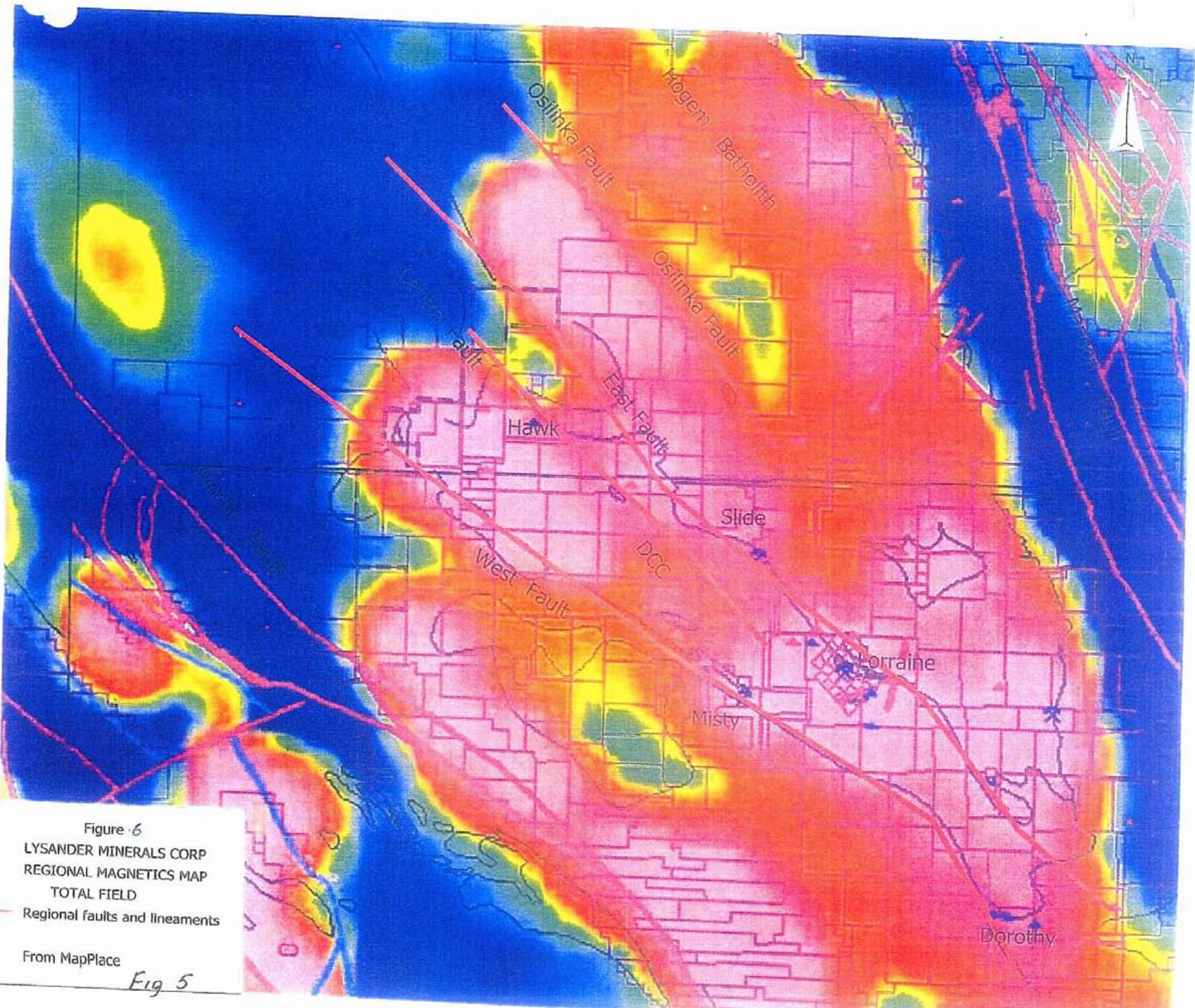
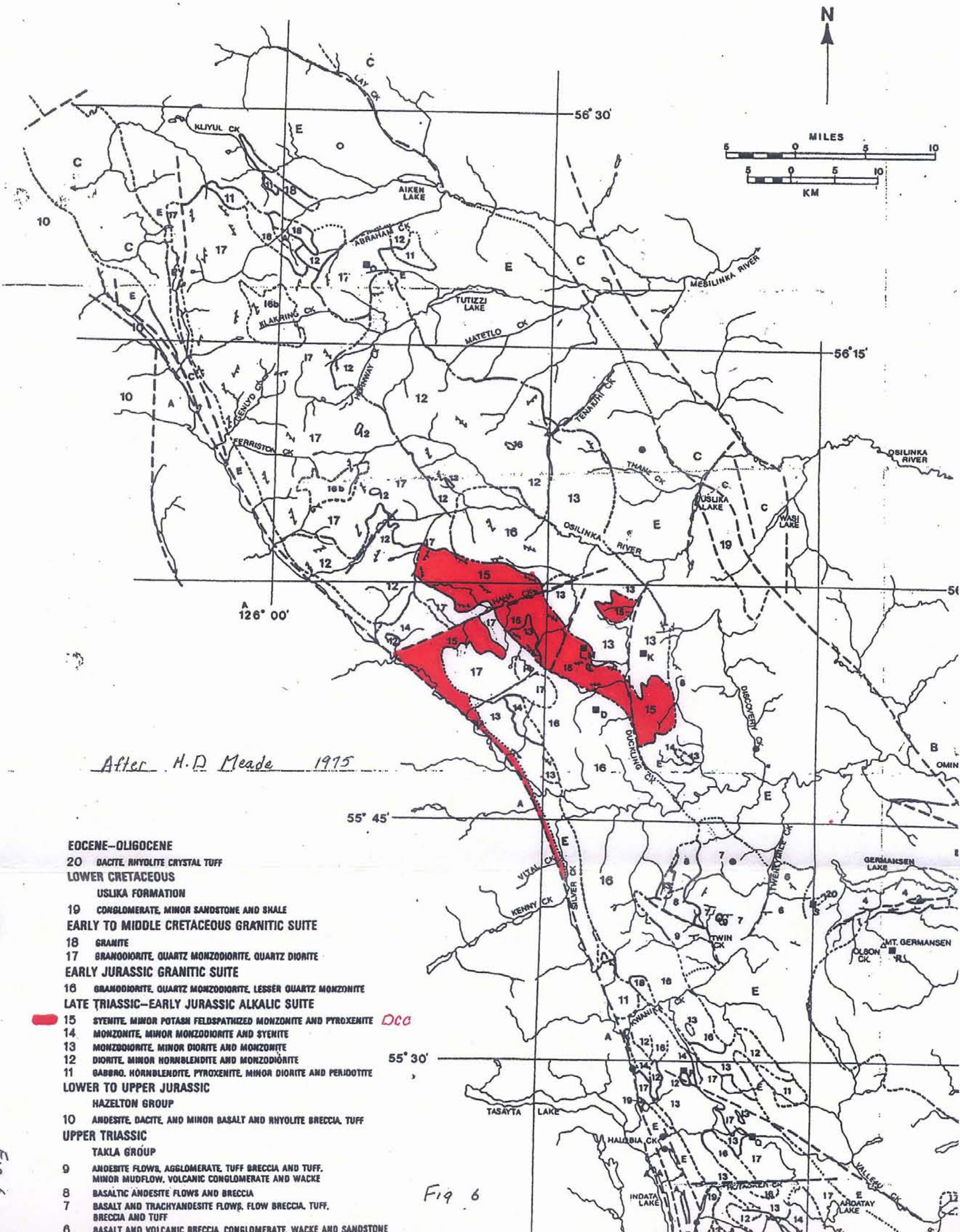


Figure 6  
 LYSANDER MINERALS CORP  
 REGIONAL MAGNETICS MAP  
 TOTAL FIELD  
 — Regional faults and lineaments  
 From MapPlace  
*Fig 5*





**EOCENE-OLIGOCENE**

20 DACITE, RHYOLITE CRYSTAL TUFF

**LOWER CRETACEOUS**

**USLIKA FORMATION**

19 CONGLOMERATE, MINOR SANDSTONE AND SHALE

**EARLY TO MIDDLE CRETACEOUS GRANITIC SUITE**

18 GRANITE

17 BRANODIORITE, QUARTZ MONZODIORITE, QUARTZ DIORITE

**EARLY JURASSIC GRANITIC SUITE**

16 BRANODIORITE, QUARTZ MONZODIORITE, LESSER QUARTZ MONZONITE

**LATE TRIASSIC-EARLY JURASSIC ALKALIC SUITE**

15 SYENITE, MINOR POTASH FELDSPATHIZED MONZONITE AND PYROXENITE *DCC*

14 MONZONITE, MINOR MONZODIORITE AND SYENITE

13 MONZODIORITE, MINOR DIORITE AND MONZONITE

12 DIORITE, MINOR HORNBLENDITE AND MONZODIORITE

11 GABBRO, HORNBLENDITE, PYROXENITE, MINOR DIORITE AND PERIDOTITE

**LOWER TO UPPER JURASSIC**

**HAZELTON GROUP**

10 ANDESITE, DACITE, AND MINOR BASALT AND RHYOLITE BRECCIA, TUFF

**UPPER TRIASSIC**

**TAKLA GROUP**

9 ANDESITE FLOWS, AGGLOMERATE, TUFF BRECCIA AND TUFF, MINOR MUDFLOW, VOLCANIC CONGLOMERATE AND WACKE

8 BASALTIC ANDESITE FLOWS AND BRECCIA

7 BASALT AND TRACHYANDESITE FLOWS, FLOW BRECCIA, TUFF, BRECCIA AND TUFF

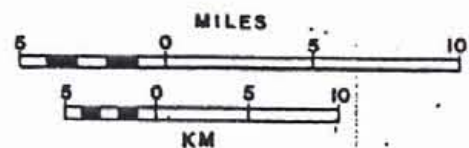
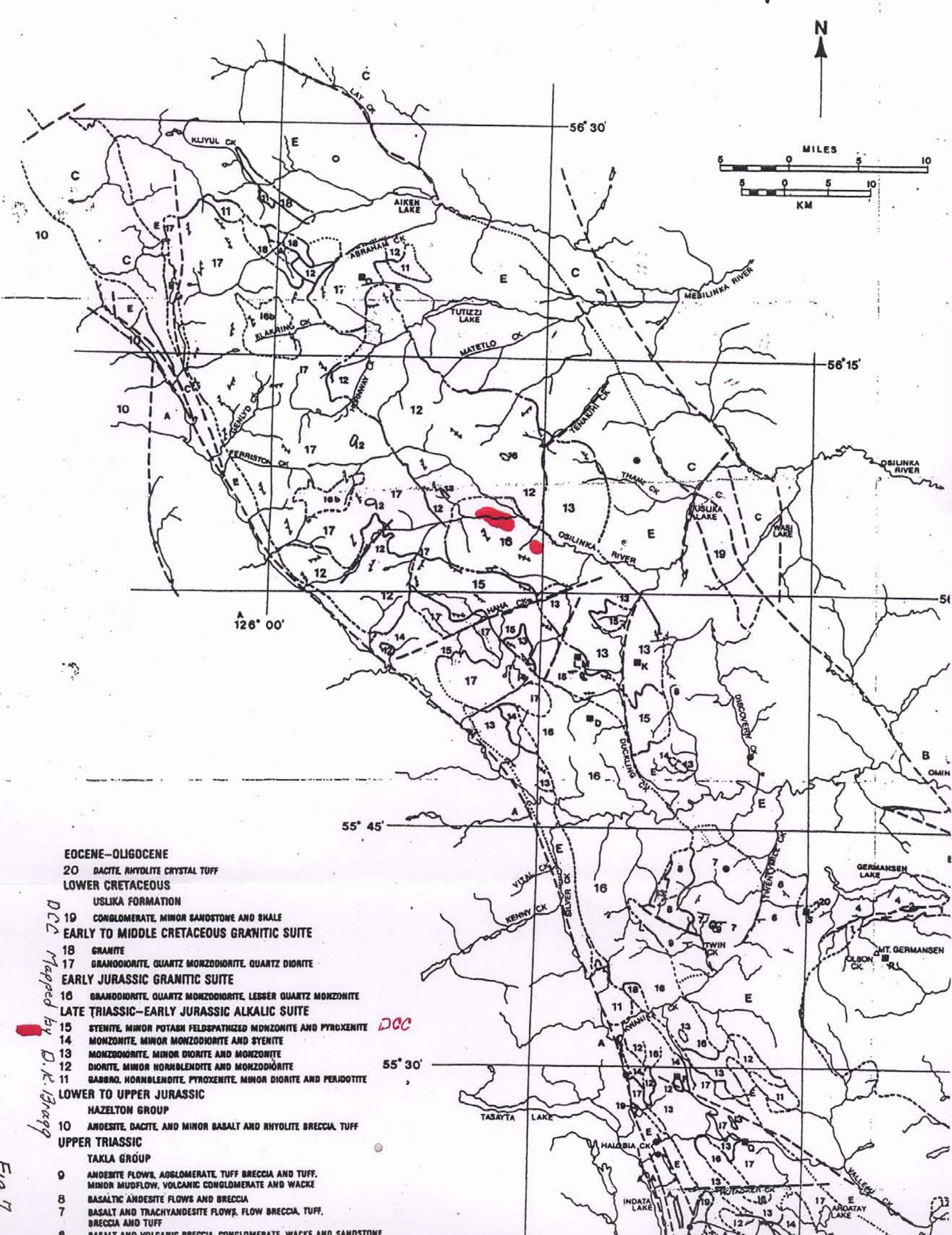
6 BASALT AND VOLCANIC BRECCIA, CONGLOMERATE, WACKE AND SANDSTONE

-9-

Fig 6

Fig 6





- EOCENE-OLIGOCENE**
- 20 DACITE, RHYOLITE, CRYSTAL TUFF
- LOWER CRETACEOUS**
- USLIKA FORMATION
- 19 CONGLOMERATE, MINOR SANDSTONE AND SHALE
- EARLY TO MIDDLE CRETACEOUS GRANITIC SUITE**
- 18 GRANITE
- 17 GRANODIORITE, QUARTZ MONZODIORITE, QUARTZ DIORITE
- EARLY JURASSIC GRANITIC SUITE**
- 16 GRANODIORITE, QUARTZ MONZODIORITE, LESSER QUARTZ MONZODIORITE
- LATE TRIASSIC-EARLY JURASSIC ALKALIC SUITE**
- 15 SYENITE, MINOR POTASH FELDSPATHIZED MONZONITE AND PYROXENITE
- 14 MONZONITE, MINOR MONZODIORITE AND SYENITE
- 13 MONZODIORITE, MINOR DIORITE AND MONZONITE
- 12 DIORITE, MINOR HORNBLENDITE AND MONZODIORITE
- 11 GABBRO, HORNBLENDITE, PYROXENITE, MINOR DIORITE AND PERIDOTITE
- LOWER TO UPPER JURASSIC**
- HAZELTON GROUP**
- 10 ANDESITE, DACITE, AND MINOR BASALT AND RHYOLITE BRECCIA, TUFF
- UPPER TRIASSIC**
- TAKLA GROUP**
- 9 ANDESITE FLOWS, AGGLOMERATE, TUFF BRECCIA AND TUFF, MINOR MUDFLOW, VOLCANIC CONGLOMERATE AND WACKE
- 8 BASALTIC ANDESITE FLOWS AND BRECCIA
- 7 BASALT AND TRACHYANDESITE FLOWS, FLOW BRECCIA, TUFF, BRECCIA AND TUFF
- 6 BASALT AND VOLCANIC BRECCIA, CONGLOMERATE, WACKE AND SANDSTONE

DCC Mapped by D.K. Bragg

-10- Fig 7

DCC

55° 30'

126° 00'

56° 30'

56° 15'

54

55° 45'

TASAYTA LAKE

HALOUBIA CK

INDATA LAKE

VALLEY CK

GERMANSEN LAKE

OLSON CK

MT. GERMANSEN

TWIN CK

VIXAL CK

KENNY CK

SILVER CK

DISCOVERY CK

OSLINKA RIVER

THANE CK

OSLINKA RIVER

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## **FIELD WORK & REPORT PREPARATION**

On September 8 and between October 3 and 13, 2011, a total of 73 hours were spent on mapping and prospecting the DKSYN Claims north of the West Osilinka River while working out of the Cat Mountain Camp.

The immediate area roads were mapped along with the topographical features, streams, outcrops, etc., using a Garmin GPS Map 60CS.

During this mapping program, 14 silt samples, six seep samples, one moss mat sample, and one soil sample were collected for analysis.

Geological mapping continued to outline areas of the DCC including syenite, megacrystic rocks and pyroxenite that had not been mapped previously (see Fig. 7 and Fig. 9a and 9b). The DCC outlined on Fig. 7 is based on outcrops, but float by glacial distribution suggests that the DCC may be even more widespread. More detailed mapping and prospecting is required.

Again a number of rock samples were collected to try to illustrate the different rock phases of the DCC from the syenite through the megacrystic phase to the pyroxenite. The best of the rocks selected from last year and this year were photographed and described. These are illustrated in Fig. 8a to 8i.

## DCC SUITE OF ROCKS

- 9a Coarse-grained syenite (9c); megacrystic DCC (9d); megacrystic DCC (9c); large orthoclase crystal (9f).
- 9b Reverse side of large orthoclase crystal (9g); rock 60% augite (9h); pyroxenite (9i)
- 9c Coarse-grained syenite. Orthoclase 85% with some crystals up to 20 mm in length. Minor quartz, about 1%. Augite about 14%. About 1/4 of this rock is a mineralized phase of ultramafic minerals. Augite 90%, orthoclase 5%, and with 5% unidentified minerals, perhaps minor magnetite and the rock is only slightly magnetic. No sulphides could be identified but both malachite and azurite coat the surface.
- 9d Megacrystic DCC, 95% orthoclase with crystals up to 25 mm in length. The groundmass consisting of 5% of the rock is fine-grained muscovite. Non-magnetic. No sulphides.
- 9e Megacrystic DCC. 60% orthoclase with crystals up to 35 mm in length. The groundmass of 40% of the rock is fine-grained augite and magnetite. Slightly magnetic, no sulphides seen.
- 9f This rock is 20 mm thick. On the one side the orthoclase crystal is 75 mm by 61 mm. On the reverse side are two more crystals, the larger being 75 mm by 40 mm (9g). All these crystals show growth lines within the crystals. These crystals are within a finer grained groundmass of 40% orthoclase and 60% pyroxine, mostly augite with some magnetite. Only slightly magnetic. This sample is exfoliated off of a larger boulder.
- 9h Rock 60% augite crystals within a fine-grained groundmass of 35% of augite. Some orthoclase, silica veinlets and some epidote and magnetite. Five percent of the groundmass is sulphides of which 50% is pyrite and 50% chalcopyrite. Moderately magnetic.

- 9i Pyroxenite 95% fine-grained augite and magnetite with less than 4% fine-grained orthoclase crystals. About 1% sulphides, mostly chalcopyrite with malachite. Moderately to strongly magnetic. Very dense heavy rock. These rocks were collected from the same borrow pit as DKSYN 2010-007 where the analysis results gave 500 ppm for copper.
- 9j & 9k Photos of large megacrystic boulders that may be a source of dimension stone.

-14-



Fig Ba



-15



Fig 86

Fig 86



- 91 -



Fig 8c

Fig 8c



-17-



Fig 8d



-18-



Fig 8e



-19-

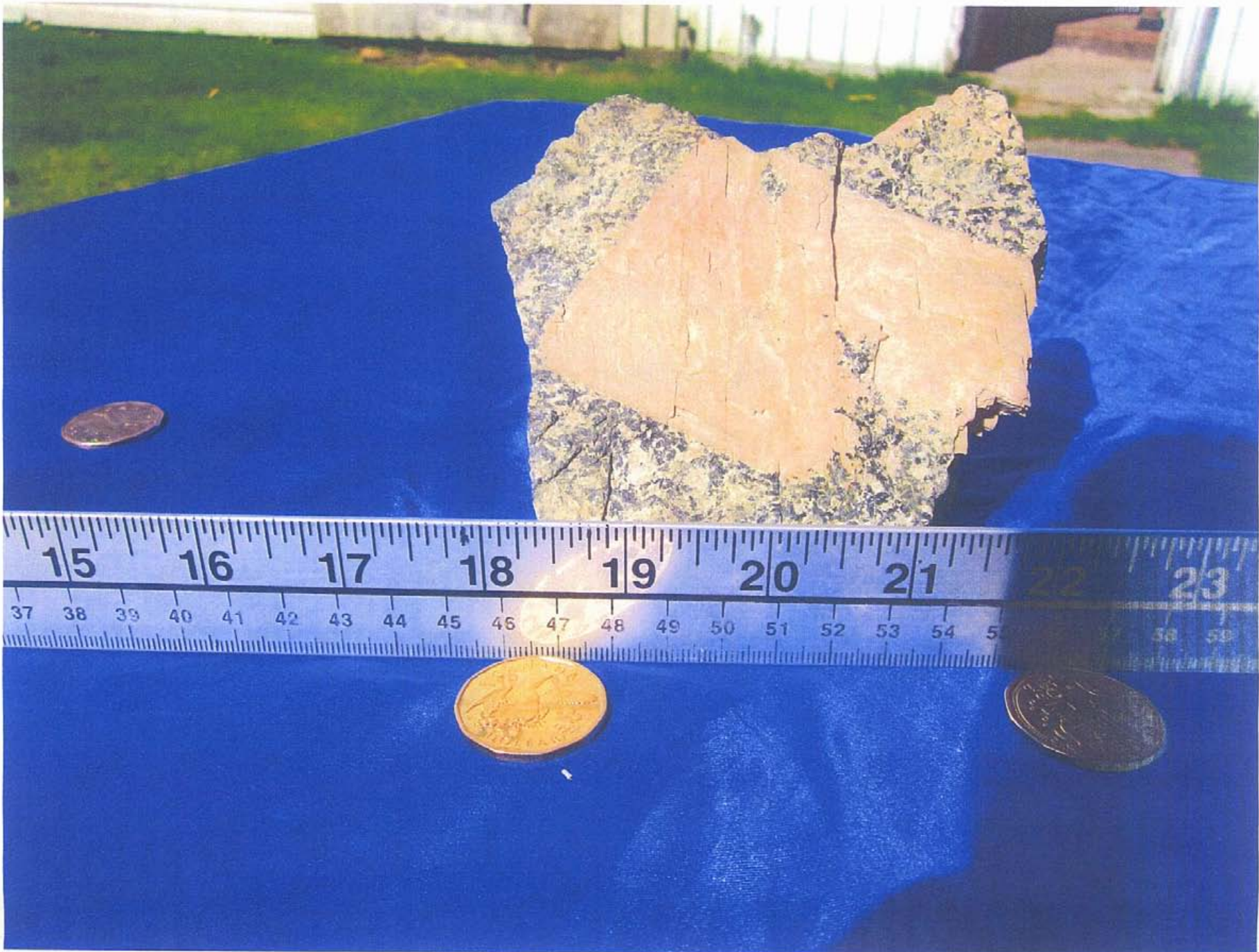


Fig 8f

Fig 8f



-20-



Fig 89





-21-

Fig 2f





## **RESULTS**

Again the mapping in this area expanded the occurrence of the DCC rocks (see Fig. 7 DCC rocks mapped by Bragg).

This mapping has indicated that much of the area is underlain by DCC. The area of DCC on Fig. 7 is based only on outcrop. However, the glacier distributed float indicates that the DCC may underlay a much larger area.

Of the 22 samples sent for analysis, only the seep 2010-001 was anomalous, Au 409 ppb, Fe 21.16%, W 122 ppm. Sample 6 was not a sample from this area.

## **CONCLUSIONS**

This preliminary prospecting and investigation has indicated that there is considerably more DCC than was originally mapped and, as such, the DKSYN Claims have become a more prospective area that needs more detailed follow up.

## **RECOMMENDATIONS**

More detailed follow-up mapping and prospecting should be done to find more of the DCC outcrops. Although most of the pyroxenite rocks found so far are only mildly or moderately magnetic, perhaps a ground magnetic survey might outline the pyroxenite. All the seep samples should be run again using a different digestion method.

Again, this should be done on the road system on the south side of the Osilinka River. More detailed prospecting should be undertaken in the immediate area of this investigation.

## STATEMENT OF COSTS

Mobilization and demobilization costs including the following:

Prorated Wages - D.K. Bragg	35.5 hrs @ \$40/hr	\$ 1,420.00	
Prorated Truck Costs		284.00	
Prorated Expenses		<u>556.75</u>	\$ 2,260.75
D.K. Bragg Wages in Field	73 hrs @ \$40/hr		2,920.00
Prorated Truck Rent			497.00
Prorated Trailer rent			284.00
Prorated Camp and Kitchen Gear Rent			426.00
Meals Served	27 @ \$12/meal		324.00
Prorated Camp Supplies and Expenses			269.79
Assays	22 Samples @ \$50		1,100.00
Report Preparation			<u>1,200.00</u>
	<b>TOTAL COST</b>		<b><u>\$ 9,281.54</u></b>
	<b>COST</b>	<b>\$ 9,281.54</b>	
	<b>PAC</b>	<b><u>2,784.46</u></b>	
		<b><u>\$12,066.00</u></b>	

## QUALIFICATIONS OF DONALD K. BRAGG

I, Donald K. Bragg, Prospector, state as follows:

- Graduated Armstrong High School, Armstrong, B.C.
- Attended U.B.C. from 1958 to 1962, Faculty of Arts and Science, in Honours Geology.
- Worked in mineral exploration since 1956.
- Worked for Kenco Explorations during the summers of 1956, 1957 and 1959 in the Yukon and Northern B.C. as an assistant prospector, head prospector and geochemical sampler under the direction of Dr. R. Cambell and R. Woodcock.
- Worked as head prospector for the Nahanni Syndicate in the Northwest Territories in 1960 under the direction of Doug Wilmont.
- Worked as head prospector in the Yukon for Dualco in 1961 under the direction of E. Wozniak.
- Worked as head prospector for Mining Corp. of Canada, Southwestern B.C. in 1962 under J.S. Scott and Dr. K. Northcote.
- Worked as head prospector during the summer of 1963 for the Francis River Syndicate in central Yukon under the direction of Dr A. Aho.
- Worked as field geologist in the Greenwood area of B.C. for Scurry Rainbow Oil in 1965 under the direction of Bill Quinn.
- Worked as field supervisor for Alrae Explorations Ltd. from September 1965 to April 1967 under the direction of Rae Jury.
- Since 1956, self-employed contractor hired by various mining companies in the following fields: prospecting, property examination, claim staking, line cutting, topographical mapping, geological mapping, reconnaissance mineral sampling, draughting, air photo interpretation, geochemistry, geophysics, supervising property exploration programs, setting up bush camps, and camp manager.
- Since 1956, self-employed prospector working in various areas in British Columbia and on self-owned properties.

- Assisted in teaching field procedures for Geochemical Explorations Section of the Ministry of Energy, Mines and Petroleum Resources Mineral Exploration Course For Prospectors under the direction of Dr. S. Hoffman in 1984, 1985, 1986, 1987, 1988.
- Received the B.C. Provincial Grubstake Award for the years 1964, 1968, 1969, 1970, 1980, 1981, 1982, 1983, 1984, 1986, 1987, and 1988.
- Worked in the Rossland Camp from 1971 to 1991 as prospector/miner on the Snowdrop and Blue Bird Claims, and mining exploration contractor.
- Worked in the Osilinka and Cut Mountain area with Lysander Mining Corporation during the 2004, 2005, 2006, 2007, 2008 field seasons under the direction of Peter E. Fox, Ph.D., P.Eng., in setting up and managing the camp, prospecting, and mapping the area.

Respectfully submitted,

**D. K. Bragg**

February 25, 2012

Vancouver, B.C.



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**APPENDIX I**

**SAMPLE DESCRIPTIONS**

and

**CERTIFICATES OF ANALYSES**

2011-001

PROJECT DK SYNSAMPLER Don Braag  
DATE Oct 8 2010  
PROPERTY .....UTM N. 6217437 E1 1171  
UTM E. 0331638  
GRID N.....  
GRID E.....TYPE: Soil Silt Rusty Seep Grab Chip Water PanMATERIAL: Till Gravel Silt Sand Talus  
Organic Bedrock FloatHORIZON: A B C Topsoil Humus Caliche  
Rusty SeepCOLOUR: White Black Brown Orange Red  
Grey GreenTOPOGRAPHY: Hilltop Hillside Gulley  
Flat Dry Creek BogREMARKS: Sample collected  
from surface

2011-002

PROJECT DK SYNSAMPLER DK Braag  
DATE Oct 8 2010  
PROPERTY .....UTM N. 6217459 E1 1166  
UTM E. 0331700  
GRID N.....  
GRID E.....TYPE: Soil Silt Grab Chip Water PanMATERIAL: Till Gravel Silt Sand Talus  
Organic Bedrock Float

HORIZON: A B C Topsoil Humus Caliche

COLOUR: White Black Brown Orange Red  
Grey GreenTOPOGRAPHY: Hilltop Hillside Gulley  
Flat Dry Creek BogREMARKS: 20 cm x 2 cm x  
1/2 m / secPoor sample site

2011-003

PROJECT DK SYNSAMPLER Don Braag  
DATE Oct 8 2010  
PROPERTY .....UTM N. 6217484 E1  
UTM E. 0331780 1166  
GRID N.....  
GRID E.....TYPE: Soil Silt Grab Chip Water PanMATERIAL: Till Gravel Silt Sand Talus  
Organic Bedrock Float

HORIZON: A B C Topsoil Humus Caliche

COLOUR: White Black Brown Orange Red  
Grey Green PinkTOPOGRAPHY: Hilltop Hillside Gulley  
Flat Dry Creek BogREMARKS: 56 cm x 2 cm x  
1 m / secwhite quartz

2011-004

2011 005

2011 006

PROJECT DK 54N

PROJECT PK 54N

PROJECT DK 54N

SAMPLER Don Bra99  
DATE Oct 8 2010  
PROPERTY .....

SAMPLER DK Bra99  
DATE Oct 8 2010  
PROPERTY .....

SAMPLER DK Bra99  
DATE Oct 9 2010  
PROPERTY .....

UTM N 6217523  
UTM E 0331875  
GRID N .....

UTM N 6217584  
UTM E 0332054  
GRID N .....

UTM N 6217504 +8  
UTM E 0337655 -8  
GRID N .....

TYPE: Soil (Silt) Grab Chip Water Pan

TYPE: Soil (Silt) Grab Chip Water Pan

TYPE: Soil (Silt) Grab Chip Water Pan

MATERIAL: Till (Gravel Silt Sand) Talus  
Organic Bedrock Float

MATERIAL: Till (Gravel Silt Sand) Talus  
Organic Bedrock Float

MATERIAL: Till (Gravel Silt Sand) Talus  
Organic Bedrock Float

HORIZON: A B C Topsoil Humus Caliche

HORIZON: A B C Topsoil Humus Caliche

HORIZON: A B C Topsoil Humus Caliche

COLOUR: White Black Brown Orange Red  
Grey Green PINK

COLOUR: White Black Brown Orange Red  
Grey Green

COLOUR: White Black Brown Orange Red  
Grey Green

TOPOGRAPHY: Hilltop (Hillside) Gulley  
Flat Dry Creek Bog

TOPOGRAPHY: Hilltop (Hillside) Gulley  
Flat Dry Creek Bog

TOPOGRAPHY: Hilltop (Hillside) Gulley  
Flat Dry Creek Bog

REMARKS: 1 m x 1 cm x .5  
m/sec

REMARKS: .75 m x 1 cm x .75  
m/sec

REMARKS: 0.3 m x 1 cm  
x .5 m / sec

2011 007

PROJECT DK 54N

SAMPLER DK Braqq

DATE Oct 11 2010

PROPERTY

UTM N 6217615

UTM E 0332134

GRID N

GRID E

TYPE: Soil Silt Grab Chip Water Pan

MATERIAL: Till Gravel Silt Sand Talus  
Organic Bedrock Float

HORIZON: A B C Topsoil Humus Caliche

COLOUR: White Black Brown Orange Red  
Grey Green

TOPOGRAPHY: Hilltop Hillside Gulley  
Flat Dry Creek Bog

REMARKS: 30 cm x 1 cm x 50  
cm/min  
Also from road ditch

2011 008

PROJECT DK 54N

SAMPLER DK Braqq

DATE Oct 11 2010

PROPERTY

UTM N 6217626

UTM E 0332185

GRID N

GRID E

TYPE: Soil Silt Grab Chip Water Pan

MATERIAL: Till Gravel Silt Sand Talus  
Organic Bedrock Float

HORIZON: A B C Topsoil Humus Caliche  
Bf

COLOUR: White Black Brown Orange Red  
Grey Green

TOPOGRAPHY: Hilltop Hillside Gulley  
Flat Dry Creek Bog

REMARKS:

2011 009

PROJECT DK 54N

SAMPLER DK Braqq

DATE Oct 11 2010

PROPERTY

UTM N 6217674

UTM E 0332264

GRID N

GRID E

TYPE: Soil Silt Grab Chip Water Pan

MATERIAL: Till Gravel Silt Sand Talus  
Moss Mat Organic Bedrock Float

HORIZON: A B C Topsoil Humus Caliche

COLOUR: White Black Brown Orange Red  
Grey Green Pink

TOPOGRAPHY: Hilltop Hillside Gulley  
Flat Dry Creek Bog

REMARKS: 40 cm x 3 cm  
x 1 m/sec

DK SYN 2010 010  
PROJECT DK SYN  
SAMPLER DK Braqq  
DATE Oct 11 2010  
PROPERTY  
UTM N 6217735 El 1141  
UTM E 0332503  
GRID N  
GRID E  
TYPE: Soil (Silt) Grab Chip Water Pan  
MATERIAL: Till (Gravel Silt Sand) Talus  
Organic Bedrock Float  
HORIZON: A B C Topsoil Humus Caliche  
COLOUR: White Black (Brown) Orange Red  
Grey Green pink  
TOPOGRAPHY: Hilltop (Hillside) Gulley  
Flat Dry Creek Bog  
REMARKS: 2 streams  
Combined 1m x 30m  
x 0.75 m/sec

2011 011  
PROJECT DK SYN  
SAMPLER DK Braqq  
DATE Oct 11 2010  
PROPERTY  
UTM N 6217790  
UTM E 0332720 El 1141  
GRID N  
GRID E  
TYPE: Soil (Silt) Grab Chip Water Pan  
MATERIAL: Till (Gravel Silt Sand) Talus  
Organic Bedrock Float  
HORIZON: A B C Topsoil Humus Caliche  
COLOUR: White Black (Brown) Orange Red  
Grey Green pink  
TOPOGRAPHY: Hilltop (Hillside) Gulley  
Flat Dry Creek Bog  
REMARKS: 20 cm x 1 cm x  
0.75 m/sec

2011 012  
PROJECT DK SYN  
SAMPLER DK Braqq  
DATE Oct 11 2010  
PROPERTY  
UTM N 6217864  
UTM E 0332918 El 1137  
GRID N  
GRID E  
TYPE: Soil (Silt) Grab Chip Water Pan  
MATERIAL: Till (Gravel Silt Sand) Talus  
Organic Bedrock Float  
HORIZON: A B C Topsoil Humus Caliche  
COLOUR: White Black (Brown) Orange Red  
Grey Green pink  
TOPOGRAPHY: Hilltop (Hillside) Gulley  
Flat Dry Creek Bog  
REMARKS: 2 streams  
Combined flow 1m x 2cm  
x 0.75 m/sec



2011-013

PROJECT DKSYN

SAMPLER DK Braqq

DATE Oct 11 2010

PROPERTY

UTM N 6217924

UTM E 0333059 E1 1134

GRID N

GRID E

TYPE: Soil (Silt) Grab Chip Water Pan

MATERIAL: Till (Gravel Silt Sand) Talus  
Organic Bedrock Float

HORIZON: A B C Topsoil Humus Caliche

COLOUR: White Black (Brown) Orange Red  
Grey Green pink

TOPOGRAPHY: Hilltop (Hillside) Gulley  
Flat Dry Creek Bog

REMARKS: 30 cm x 2 cm x  
x 0.75 m/min

2011-014

PROJECT DKSYN

SAMPLER DK Braqq

DATE Oct 11 2010

PROPERTY

UTM N 6217956

UTM E 0333146 E10 1137

GRID N

GRID E

seep

TYPE: Soil (Silt) Grab Chip Water Pan

MATERIAL: Till (Gravel Silt Sand) Talus  
Organic Bedrock Float

HORIZON: A B C Topsoil Humus Caliche

COLOUR: White Black Brown Orange (Red)  
Grey Green

TOPOGRAPHY: Hilltop (Hillside) Gulley  
Flat Dry Creek Bog

REMARKS: Sampled across  
12 m of SEEP

2011-015

PROJECT DKSYN

SAMPLER DK Braqq

DATE Oct 11 2010

PROPERTY

UTM N 6218015

UTM E 0333273 E10 1140

GRID N

GRID E

TYPE: Soil (Silt) Grab Chip Water Pan

MATERIAL: Till (Gravel Silt Sand) Talus  
Organic Bedrock Float

HORIZON: A B C Topsoil Humus Caliche

COLOUR: White Black Brown Orange Red  
Grey (Green) pink

TOPOGRAPHY: Hilltop (Hillside) Gulley  
Flat Dry Creek Bog

REMARKS: 20 cm x 1 cm  
x 0.5 m/sec



2011 016

PROJECT D.K.SYN

SAMPLER DK Bra99

DATE Oct 11 2010

PROPERTY

UTM N 6218053

UTM E 0333348 E1 1138

GRID N

GRID E

TYPE: Soil <sup>Seep</sup> ~~Silt~~ Grab Chip Water Pan

MATERIAL: Till ~~Gravel Silt Sand~~ Talus  
Organic Bedrock Float

HORIZON: A B C Topsoil Humus Caliche

COLOUR: White ~~Black Brown Orange Red~~  
Grey Green

TOPOGRAPHY: Hilltop ~~Hillside~~ Gulley  
Flat Dry Creek Bog

REMARKS: Seep sampled for  
50 m along road

2011 017

PROJECT D.K.SYN

SAMPLER DK Bra99

DATE Oct 11 2010

PROPERTY

UTM N 6218092

UTM E 0333440 E1 1140

GRID N

GRID E

TYPE: Soil <sup>Seep</sup> ~~Silt~~ Grab Chip Water Pan

MATERIAL: Till ~~Gravel Silt Sand~~ Talus  
Organic Bedrock Float

HORIZON: A B C Topsoil Humus Caliche

COLOUR: White ~~Black Brown Orange Red~~  
Grey Green

TOPOGRAPHY: Hilltop ~~Hillside~~ Gulley  
Flat Dry Creek Bog

REMARKS: Seep sampled for  
50 m ahead

2011 018

PROJECT D.K.SYN

SAMPLER DK Bra99

DATE Oct 11 2010

PROPERTY

UTM N 6218167

UTM E 0333677

GRID N

GRID E E1 1134

TYPE: Soil ~~Silt~~ Grab Chip Water Pan

MATERIAL: Till ~~Gravel Silt Sand~~ Talus  
Organic Bedrock Float

HORIZON: A B C Topsoil Humus Caliche

COLOUR: White ~~Black Brown Orange Red~~  
Grey Green pink

TOPOGRAPHY: Hilltop ~~Hillside~~ Gulley  
Flat Dry Creek Bog

REMARKS: 30cm x 30cm  
x 1 m/sec

2011 019

PROJECT...DKSYN.....

SAMPLER

DATE...Oct...11.....2011

PROPERTY .....

UTM N...6218197.....

UTM E...033383.....

GRID N.....

GRID E.....

TYPE: Soil Silt Grab Chip Water Pan  
*seep*

MATERIAL: Till Gravel Silt Sand Talus  
Organic Bedrock Float

HORIZON: A B C Topsoil Humus Caliche

COLOUR: White Black Brown Orange Red  
Grey Green

TOPOGRAPHY: Hilltop Hillside Gulley  
Flat Dry Creek Bog

REMARKS: *Seep a small  
Stream 10 cm x 1 cm x .5 m  
per sec*

2011 020

PROJECT...DKSYN.....

SAMPLER *DK Bra99*

DATE...Oct...11.....2011

PROPERTY .....

UTM N...6218226.....

UTM E...0333912.....E11129

GRID N.....

GRID E.....

TYPE: Soil Silt Grab Chip Water Pan

MATERIAL: Till Gravel Silt Sand Talus  
Organic Bedrock Float

HORIZON: A B C Topsoil Humus Caliche

COLOUR: White Black Brown Orange Red  
Grey Green *pink*

TOPOGRAPHY: Hilltop Hillside Gulley  
Flat Dry Creek Bog

REMARKS: *3 small streams  
over 15 m  
combined 40 cm x 3 cm  
x .5 m / sec*

2011 021

PROJECT...DKSYN.....

SAMPLER *DK Bra99*

DATE...Oct...11.....2011

PROPERTY .....

UTM N...6218346.....

UTM E...0334116.....

GRID N.....

GRID E.....

TYPE: Soil Silt Grab Chip Water Pan

MATERIAL: Till Gravel Silt Sand Talus  
Organic Bedrock Float

HORIZON: A B C Topsoil Humus Caliche

COLOUR: White Black Brown Orange Red  
Grey Green *pink*

TOPOGRAPHY: Hilltop Hillside Gulley  
Flat Dry Creek Bog

REMARKS: *20 cm x 2 cm x  
0.5 m / sec*

2011 022

PROJECT DK 54N

SAMPLER DK Braqq  
DATE Oct 11 2011  
PROPERTY .....

UTM N. 6218376  
UTM E. 0334159  
GRID N. E1157  
GRID E. ....

TYPE: Soil Silt Grab Chip Water Pan  
Seep

MATERIAL: Till Gravel Silt Sand Talus  
Organic Bedrock Float

HORIZON: A B C Topsoil Humus Caliche

COLOUR: White Black Brown Orange Red  
Grey Green

TOPOGRAPHY: Hilltop Hillside Gulley  
Flat Dry Creek Bog

REMARKS: Seep over 7  
Meters

PROJECT .....

SAMPLER .....

UTM N. ....  
UTM E. ....  
GRID N. ....  
GRID E. ....

TYPE: Soil Silt Grab Chip Water Pan

MATERIAL: Till Gravel Silt Sand Talus  
Organic Bedrock Float

HORIZON: A B C Topsoil Humus Caliche

COLOUR: White Black Brown Orange Red  
Grey Green

TOPOGRAPHY: Hilltop Hillside Gulley  
Flat Dry Creek Bog

REMARKS: .....

PROJECT .....

SAMPLER .....

UTM N. ....  
UTM E. ....  
GRID N. ....  
GRID E. ....

TYPE: Soil Silt Grab Chip Water Pan

MATERIAL: Till Gravel Silt Sand Talus  
Organic Bedrock Float

HORIZON: A B C Topsoil Humus Caliche

COLOUR: White Black Brown Orange Red  
Grey Green

TOPOGRAPHY: Hilltop Hillside Gulley  
Flat Dry Creek Bog

REMARKS: .....



Acme Analytical Laboratories (Vancouver) Ltd.  
1020 Cordova St. East Vancouver BC V6A 4A3 Canada

www.acmelab.com

Client: **Bragg, Don**  
6588 152nd Street  
Surrey BC V3S 3L1 Canada

Submitted By: Don Bragg  
Receiving Lab: Canada-Vancouver  
Received: November 24, 2011  
Report Date: December 21, 2011  
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN11006503.1

CLIENT JOB INFORMATION

Project: DKSYN  
Shipment ID:  
P.O. Number  
Number of Samples: 6

SAMPLE DISPOSAL

RTRN-PLP Return  
RTRN-RJT Return

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	6	Dry at 60C			VAN
SS80	6	Dry at 60C sieve 100g to -80 mesh			VAN
RJSV	6	Saving all or part of Soil Reject			VAN
3B01	6	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1E	6	4 Acid digestion ICP-ES analysis	0.25	Completed	VAN

ADDITIONAL COMMENTS

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: Bragg, Don  
6588 152nd Street  
Surrey BC V3S 3L1  
Canada

CC: Barry Price



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only. All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only. Results apply to samples as submitted. \*\*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.





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Client: **Bragg, Don**  
 6588 152nd Street  
 Surrey BC V3S 3L1 Canada

Project: DKSYN  
 Report Date: December 21, 2011

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN11006503.1

Method	3B	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	
Analyte	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	2	2	2	5	2	0.5	2	2	5	0.01	5	20	4	2	2	0.4	5	5	2	0.01	
001	Other	409	10	<2	<5	44	<0.5	<2	78	>10000	21.16	<5	<20	10	21	243	2.7	12	<5	89	0.84
014	Other	5	<2	6	10	22	<0.5	<2	5	798	5.45	<5	<20	<4	<2	662	0.9	<5	<5	51	1.70
016	Other	<2	<2	7	5	18	<0.5	<2	3	712	4.04	<5	<20	<4	<2	665	0.8	<5	<5	54	1.57
017	Other	2	<2	10	8	20	<0.5	<2	5	1911	4.92	<5	<20	<4	2	687	0.8	<5	<5	58	1.70
019	Other	<2	20	22	13	34	<0.5	3	21	>10000	17.04	<5	<20	<4	3	417	1.1	<5	<5	106	1.33
022	Other	<2	6	29	12	26	<0.5	2	19	3282	10.80	<5	<20	<4	4	523	1.1	<5	<5	77	1.40

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Client: **Bragg, Don**  
6588 152nd Street  
Surrey BC V3S 3L1 Canada

Project: DKSYN  
Report Date: December 21, 2011

Page: 2 of 2 Part 2

## CERTIFICATE OF ANALYSIS

VAN11006503.1

Method	Analyte	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Sn	Y	Nb	Be	Sc
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.002	2	2	0.01	1	0.01	0.01	0.01	0.01	4	2	2	2	2	1	1
001	Other	0.034	49	<2	0.06	5613	0.03	1.87	0.64	0.29	122	4	<2	24	<2	<1	2
014	Other	0.039	8	6	0.25	1754	0.15	6.40	3.27	1.60	<4	11	<2	6	5	1	5
016	Other	0.043	7	3	0.21	1669	0.14	6.38	3.39	1.58	<4	9	<2	7	5	1	4
017	Other	0.039	9	6	0.24	1770	0.15	6.60	3.49	1.65	<4	9	<2	8	5	1	4
019	Other	0.056	19	4	0.21	1316	0.09	4.01	1.49	0.75	<4	7	<2	9	3	<1	4
022	Other	0.079	16	7	0.23	1393	0.12	5.89	2.58	1.29	<4	9	<2	10	3	1	4



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Client: **Bragg, Don**  
 6588 152nd Street  
 Surrey BC V3S 3L1 Canada

Project: DKSYN  
 Report Date: December 21, 2011

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT

VAN11006503.1

Method	3B	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	
Analyte	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	2	2	2	5	2	0.5	2	2	5	0.01	5	20	4	2	2	0.4	5	5	2	0.01	
Reference Materials																					
STD OREAS24P	Standard	<2	43	<5	112	<0.5	144	42	1030	7.06	<5	<20	<4	3	389	1.4	<5	<5	161	5.47	
STD OREAS45C	Standard		3	600	23	86	<0.5	328	100	1098	18.03	6	<20	<4	10	36	0.9	<5	<5	268	0.50
STD OXC88	Standard	207																			
STD OXC88	Standard	200																			
STD OXC88 Expected		203																			
STD OREAS24P Expected		1.5	52	2.9	119	0.06	141	44	1100	7.53	1.2	0.75		2.85	403	0.15	0.09		158	5.83	
STD OREAS45C Expected		2.26	620	24	83	0.28	333	104	1160	18.33	10.1	2.4	0.045	10.2	36.4	0.15	0.79	0.21	270	0.482	
BLK	Blank	<2																			
BLK	Blank	<2																			
BLK	Blank		<2	<2	<5	<2	<0.5	<2	<2	<5	<0.01	<5	<20	<4	<2	<2	<0.4	<5	<5	<2	<0.01

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6588 152nd Street  
Surrey BC V3S 3L1 Canada

Project: DKSYN

Report Date: December 21, 2011

Page: 1 of 1 Part 2

## QUALITY CONTROL REPORT

VAN11006503.1

Method		1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	
Analyte		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Sn	Y	Nb	Be	Sc	S
Unit		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.002	2	2	0.01	1	0.01	0.01	0.01	0.01	4	2	2	2	2	1	1	0.1
Reference Materials																		
STD OREAS24P	Standard	0.135	16	183	4.07	287	1.05	7.69	2.59	0.69	<4	125	<2	21	19	1	19	<0.1
STD OREAS45C	Standard	0.052	25	921	0.24	280	1.19	7.17	0.10	0.36	<4	175	4	12	24	<1	59	<0.1
STD OXC88	Standard																	
STD OXC88	Standard																	
STD OXC88 Expected																		
STD OREAS24P Expected		0.136	17.4	196	4.13	285	1.1	7.66	2.34	0.7	0.5	141	1.6	21.3	21		20	
STD OREAS45C Expected		0.051	26.2	962	0.25	270	1.1313	7.59	0.097	0.36	1.06	169.7	2.9	12.9	23.05		59.03	0.021
BLK	Blank																	
BLK	Blank																	
BLK	Blank	<0.002	<2	<2	<0.01	<1	<0.01	<0.01	<0.01	<0.01	<4	<2	<2	<2	<2	<1	<1	<0.1



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Client: **Bragg, Don**  
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Surrey BC V3S 3L1 Canada

Submitted By: Don Bragg  
Receiving Lab: Canada-Vancouver  
Received: November 24, 2011  
Report Date: December 21, 2011  
Page: 1 of 2

**CERTIFICATE OF ANALYSIS**

VAN11006501.1

**CLIENT JOB INFORMATION**

Project: DKSYN  
Shipment ID:  
P.O. Number  
Number of Samples: 1

**SAMPLE DISPOSAL**

RTRN-PLP Return  
RTRN-RJT Return

**SAMPLE PREPARATION AND ANALYTICAL PROCEDURES**

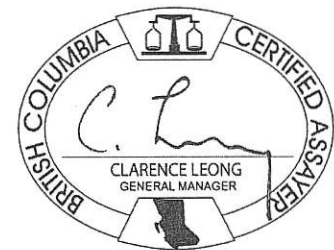
Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	1	Dry at 60C			VAN
SS80	1	Dry at 60C sieve 100g to -80 mesh			VAN
RJSV	1	Saving all or part of Soil Reject			VAN
3B01	1	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1E	1	4 Acid digestion ICP-ES analysis	0.25	Completed	VAN

**ADDITIONAL COMMENTS**

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: Bragg, Don  
6588 152nd Street  
Surrey BC V3S 3L1  
Canada

CC: Barry Price



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Client: **Bragg, Don**  
 6588 152nd Street  
 Surrey BC V3S 3L1 Canada

Project: DKSYN  
 Report Date: December 21, 2011

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN11006501.1

Method	3B	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E
Analyte	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL	2	2	2	5	2	0.5	2	2	5	0.01	5	20	4	2	2	0.4	5	5	2	0.01
009 Moss	6	<2	31	14	60	<0.5	<2	4	798	1.89	<5	<20	<4	<2	639	1.2	<5	<5	48	1.87

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Surrey BC V3S 3L1 Canada

Project: DKSYN  
Report Date: December 21, 2011

Page: 2 of 2 Part 2

## CERTIFICATE OF ANALYSIS

VAN11006501.1

Method	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Sn	Y	Nb	Be	Sc	S
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL	0.002	2	2	0.01	1	0.01	0.01	0.01	0.01	4	2	2	2	2	1	1	0.1
009 Moss	0.059	13	3	0.33	2145	0.15	8.22	3.14	1.84	<4	23	<2	8	5	1	5	<0.1



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6588 152nd Street  
Surrey BC V3S 3L1 Canada

Project: DKSYN

Report Date: December 21, 2011

Page: 1 of 1 Part 1

## QUALITY CONTROL REPORT

VAN11006501.1

Method	3B	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E
Analyte	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL	2	2	2	5	2	0.5	2	2	5	0.01	5	20	4	2	2	0.4	5	5	2	0.01
Reference Materials																				
STD OREAS24P Standard		<2	43	<5	112	<0.5	144	42	1030	7.06	<5	<20	<4	3	389	1.4	<5	<5	161	5.47
STD OREAS45C Standard		3	600	23	86	<0.5	328	100	1098	18.03	6	<20	<4	10	36	0.9	<5	<5	268	0.50
STD OXC88 Standard	207																			
STD OXC88 Standard	200																			
STD OXC88 Expected	203																			
STD OREAS24P Expected		1.5	52	2.9	119	0.06	141	44	1100	7.53	1.2	0.75		2.85	403	0.15	0.09		158	5.83
STD OREAS45C Expected		2.26	620	24	83	0.28	333	104	1160	18.33	10.1	2.4	0.045	10.2	36.4	0.15	0.79	0.21	270	0.482
BLK Blank	<2																			
BLK Blank	<2																			
BLK Blank		<2	<2	<5	<2	<0.5	<2	<2	<5	<0.01	<5	<20	<4	<2	<2	<0.4	<5	<5	<2	<0.01



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Surrey BC V3S 3L1 Canada

Project: DKSYN

Report Date: December 21, 2011

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

VAN11006501.1

Method	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Sn	Y	Nb	Be	Sc	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.002	2	2	0.01	1	0.01	0.01	0.01	0.01	4	2	2	2	2	1	1	0.1	
Reference Materials																		
STD OREAS24P	Standard	0.135	16	183	4.07	287	1.05	7.69	2.59	0.69	<4	125	<2	21	19	1	19	<0.1
STD OREAS45C	Standard	0.052	25	921	0.24	280	1.19	7.17	0.10	0.36	<4	175	4	12	24	<1	59	<0.1
STD OXC88	Standard																	
STD OXC88	Standard																	
STD OXC88 Expected																		
STD OREAS24P Expected		0.136	17.4	196	4.13	285	1.1	7.66	2.34	0.7	0.5	141	1.6	21.3	21		20	
STD OREAS45C Expected		0.051	26.2	962	0.25	270	1.1313	7.59	0.097	0.36	1.06	169.7	2.9	12.9	23.05		59.03	0.021
BLK	Blank																	
BLK	Blank																	
BLK	Blank	<0.002	<2	<2	<0.01	<1	<0.01	<0.01	<0.01	<0.01	<4	<2	<2	<2	<2	<1	<1	<0.1





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6588 152nd Street  
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Submitted By: Don Bragg  
Receiving Lab: Canada-Vancouver  
Received: November 24, 2011  
Report Date: December 21, 2011  
Page: 1 of 2

CERTIFICATE OF ANALYSIS

VAN11006504.1

CLIENT JOB INFORMATION

Project: DKSYN  
Shipment ID:  
P.O. Number  
Number of Samples: 16

SAMPLE DISPOSAL

RTRN-PLP Return  
RTRN-RJT Return

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	15	Dry at 60C			VAN
SS80	15	Dry at 60C sieve 100g to -80 mesh			VAN
RJSV	15	Saving all or part of Soil Reject			VAN
3B01	15	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1E	15	4 Acid digestion ICP-ES analysis	0.25	Completed	VAN

ADDITIONAL COMMENTS

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: Bragg, Don  
6588 152nd Street  
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Canada

CC: Barry Price



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Project:

DKSYN

Report Date:

December 21, 2011

Page:

2 of 2

Part 1

## CERTIFICATE OF ANALYSIS

VAN11006504.1

Method	Analyte	Unit	3B	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	
			Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
MDL			ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
002	Silt		5	<2	13	10	45	<0.5	<2	5	1528	2.12	<5	<20	<4	<2	699	1.0	<5	<5	57	1.99
003	Silt		<2	<2	15	9	27	<0.5	<2	3	618	1.44	<5	<20	<4	2	711	0.9	<5	<5	44	1.87
004	Silt		<2	2	15	15	39	<0.5	<2	4	1184	2.19	<5	<20	<4	<2	693	1.0	<5	<5	62	2.17
005	Silt		6	<2	31	11	98	<0.5	2	3	706	1.49	<5	<20	<4	3	567	0.8	<5	<5	44	1.83
006	Silt		4	3	85	34	69	<0.5	53	34	1283	8.94	<5	<20	<4	3	537	1.6	<5	<5	283	7.43
007	Silt		<2	<2	12	12	25	<0.5	<2	2	377	1.37	<5	<20	<4	3	741	0.9	<5	<5	44	1.97
010	Silt		7	<2	26	10	34	<0.5	2	3	598	1.72	<5	<20	<4	<2	636	0.8	<5	<5	48	1.86
013	Silt		3	<2	17	12	30	<0.5	2	5	1191	1.84	<5	<20	<4	<2	604	0.9	<5	<5	61	1.94
011	Silt		7	<2	23	13	34	<0.5	3	4	680	1.85	<5	<20	<4	2	626	0.9	<5	<5	51	1.96
012	Silt		3	<2	17	7	26	<0.5	<2	3	506	1.73	<5	<20	<4	2	770	1.0	<5	5	52	2.19
015	Silt		4	<2	18	11	37	<0.5	3	4	768	1.67	<5	<20	<4	<2	607	0.7	<5	<5	54	2.08
018	Silt		2	<2	23	10	23	<0.5	<2	3	743	1.44	<5	<20	<4	<2	590	0.7	<5	<5	52	1.96
019	Silt		L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
020	Silt		<2	<2	23	10	38	<0.5	3	5	1020	2.66	<5	<20	<4	<2	706	0.9	<5	<5	77	2.23
021	Silt		3	16	47	13	41	<0.5	3	15	>10000	2.68	<5	<20	<4	3	549	1.5	<5	<5	66	1.70
6	Silt		>10000	28	5079	5153	481	36.7	6	37	2955	8.78	607	108	9	19	244	58.6	>4000	558	997	3.60



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Client: **Bragg, Don**  
 6588 152nd Street  
 Surrey BC V3S 3L1 Canada

Project: DKSYN  
 Report Date: December 21, 2011

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

VAN11006504.1

Method	Analyte	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E
		P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Sn	Y	Nb	Be	Sc
		%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		MDL															
002	Silt	0.064	13	7	0.37	1901	0.17	8.22	3.28	1.71	<4	14	<2	9	6	1	5
003	Silt	0.057	9	3	0.30	2024	0.15	8.72	3.78	1.96	<4	15	<2	9	5	1	5
004	Silt	0.078	17	6	0.33	1930	0.17	8.09	3.16	1.59	<4	15	<2	10	6	2	5
005	Silt	0.085	12	6	0.30	2183	0.14	5.87	2.77	1.55	<4	8	<2	9	5	1	4
006	Silt	0.223	15	141	4.20	830	0.48	5.21	1.65	1.23	<4	31	<2	16	6	1	36
007	Silt	0.040	12	3	0.28	1956	0.14	8.90	3.54	1.88	<4	19	<2	9	5	1	5
010	Silt	0.088	13	5	0.28	2064	0.14	7.96	3.04	1.74	<4	18	<2	11	5	1	5
013	Silt	0.086	11	8	0.33	1828	0.18	6.01	2.90	1.37	<4	9	<2	10	6	1	5
011	Silt	0.086	12	9	0.33	2099	0.15	7.39	2.98	1.68	<4	19	<2	9	5	1	5
012	Silt	0.066	12	4	0.32	2018	0.16	9.10	3.64	1.86	<4	15	<2	9	5	1	5
015	Silt	0.090	9	7	0.31	1806	0.16	5.80	2.85	1.40	<4	9	2	7	5	1	5
018	Silt	0.068	11	5	0.22	1540	0.16	6.00	2.76	1.35	<4	7	<2	8	5	1	4
019	Silt	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
020	Silt	0.075	14	11	0.44	1606	0.22	6.89	3.19	1.50	<4	12	<2	11	7	1	6
021	Silt	0.103	14	8	0.30	2047	0.15	6.59	2.38	1.18	<4	10	<2	10	4	1	5
6	Silt	0.201	20	15	0.49	847	0.07	4.07	0.52	2.04	179	21	<2	7	4	2	4

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Project: DKSYN  
 Report Date: December 21, 2011

Page: 1 of 1 Part 1

QUALITY CONTROL REPORT VAN11006504.1

Method	3B	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E
Analyte	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL	2	2	2	5	2	0.5	2	2	5	0.01	5	20	4	2	2	0.4	5	5	2	0.01
Reference Materials																				
STD OREAS24P Standard		<2	43	<5	112	<0.5	144	42	1030	7.06	<5	<20	<4	3	389	1.4	<5	<5	161	5.47
STD OREAS45C Standard		3	600	23	86	<0.5	328	100	1098	18.03	6	<20	<4	10	36	0.9	<5	<5	268	0.50
STD OXC88 Standard	207																			
STD OXC88 Standard	200																			
STD OXC88 Expected	203																			
STD OREAS24P Expected		1.5	52	2.9	119	0.06	141	44	1100	7.53	1.2	0.75		2.85	403	0.15	0.09		158	5.83
STD OREAS45C Expected		2.26	620	24	83	0.28	333	104	1160	18.33	10.1	2.4	0.045	10.2	36.4	0.15	0.79	0.21	270	0.482
BLK Blank	<2																			
BLK Blank	<2																			
BLK Blank		<2	<2	<5	<2	<0.5	<2	<2	<5	<0.01	<5	<20	<4	<2	<2	<0.4	<5	<5	<2	<0.01

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 Surrey BC V3S 3L1 Canada

Project: DKSYN  
 Report Date: December 21, 2011

Page: 1 of 1 Part 2

QUALITY CONTROL REPORT

VAN11006504.1

Method	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Sn	Y	Nb	Be	Sc	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.002	2	2	0.01	1	0.01	0.01	0.01	0.01	4	2	2	2	2	1	1	0.1	
Reference Materials																		
STD OREAS24P	Standard	0.135	16	183	4.07	287	1.05	7.69	2.59	0.69	<4	125	<2	21	19	1	19	<0.1
STD OREAS45C	Standard	0.052	25	921	0.24	280	1.19	7.17	0.10	0.36	<4	175	4	12	24	<1	59	<0.1
STD OXC88	Standard																	
STD OXC88	Standard																	
STD OXC88 Expected																		
STD OREAS24P Expected		0.136	17.4	196	4.13	285	1.1	7.66	2.34	0.7	0.5	141	1.6	21.3	21		20	
STD OREAS45C Expected		0.051	26.2	962	0.25	270	1.1313	7.59	0.097	0.36	1.06	169.7	2.9	12.9	23.05		59.03	0.021
BLK	Blank																	
BLK	Blank																	
BLK	Blank	<0.002	<2	<2	<0.01	<1	<0.01	<0.01	<0.01	<0.01	<4	<2	<2	<2	<2	<1	<1	<0.1



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Acme Analytical Laboratories (Vancouver) Ltd.

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Client: **Bragg, Don**  
6588 152nd Street  
Surrey BC V3S 3L1 Canada

Submitted By: Don Bragg  
Receiving Lab: Canada-Vancouver  
Received: November 24, 2011  
Report Date: December 21, 2011  
Page: 1 of 2

## CERTIFICATE OF ANALYSIS

VAN11006502.1

### CLIENT JOB INFORMATION

Project: DKSYN  
Shipment ID:  
P.O. Number  
Number of Samples: 1

### SAMPLE DISPOSAL

RTRN-PLP Return  
RTRN-RJT Return

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

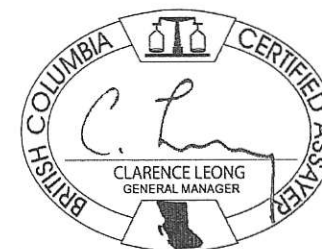
Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	1	Dry at 60C			VAN
SS80	1	Dry at 60C sieve 100g to -80 mesh			VAN
RJSV	1	Saving all or part of Soil Reject			VAN
3B01	1	Fire assay fusion Au by ICP-ES	30	Completed	VAN
1E	1	4 Acid digestion ICP-ES analysis	0.25	Completed	VAN

### ADDITIONAL COMMENTS

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: Bragg, Don  
6588 152nd Street  
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Canada

CC: Barry Price



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Client: **Bragg, Don**  
6588 152nd Street  
Surrey BC V3S 3L1 Canada

Project: DKSYN  
Report Date: December 21, 2011

Page: 2 of 2 Part 1

CERTIFICATE OF ANALYSIS

VAN11006502.1

Method	3B	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	
Analyte	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	2	2	2	5	2	0.5	2	2	5	0.01	5	20	4	2	2	0.4	5	5	2	0.01	
008	Soil	2	<2	6	11	20	<0.5	<2	<2	313	2.20	<5	<20	<4	<2	699	1.0	<5	<5	64	1.77



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 Surrey BC V3S 3L1 Canada

Project: DKSYN  
 Report Date: December 21, 2011

Page: 2 of 2 Part 2

CERTIFICATE OF ANALYSIS

VAN11006502.1

Method	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Sn	Y	Nb	Be	Sc	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.002	2	2	0.01	1	0.01	0.01	0.01	0.01	4	2	2	2	2	1	1	0.1	
008	Soil	0.020	9	4	0.24	1756	0.18	8.94	3.31	1.78	<4	19	<2	7	6	1	5	<0.1





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Page: 1 of 1 Part 1

## QUALITY CONTROL REPORT

VAN11006502.1

Method	3B	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E
Analyte	Au	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL	2	2	2	5	2	0.5	2	2	5	0.01	5	20	4	2	2	0.4	5	5	2	0.01
Reference Materials																				
STD OREAS24P	Standard	<2	43	<5	112	<0.5	144	42	1030	7.06	<5	<20	<4	3	389	1.4	<5	<5	161	5.47
STD OREAS45C	Standard	3	600	23	86	<0.5	328	100	1098	18.03	6	<20	<4	10	36	0.9	<5	<5	268	0.50
STD OXC88	Standard	207																		
STD OXC88	Standard	200																		
STD OXC88 Expected		203																		
STD OREAS24P Expected		1.5	52	2.9	119	0.06	141	44	1100	7.53	1.2	0.75		2.85	403	0.15	0.09		158	5.83
STD OREAS45C Expected		2.26	620	24	83	0.28	333	104	1160	18.33	10.1	2.4	0.045	10.2	36.4	0.15	0.79	0.21	270	0.482
BLK	Blank	<2																		
BLK	Blank	<2																		
BLK	Blank	<2	<2	<5	<2	<0.5	<2	<2	<5	<0.01	<5	<20	<4	<2	<2	<0.4	<5	<5	<2	<0.01



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Page: 1 of 1 Part 2

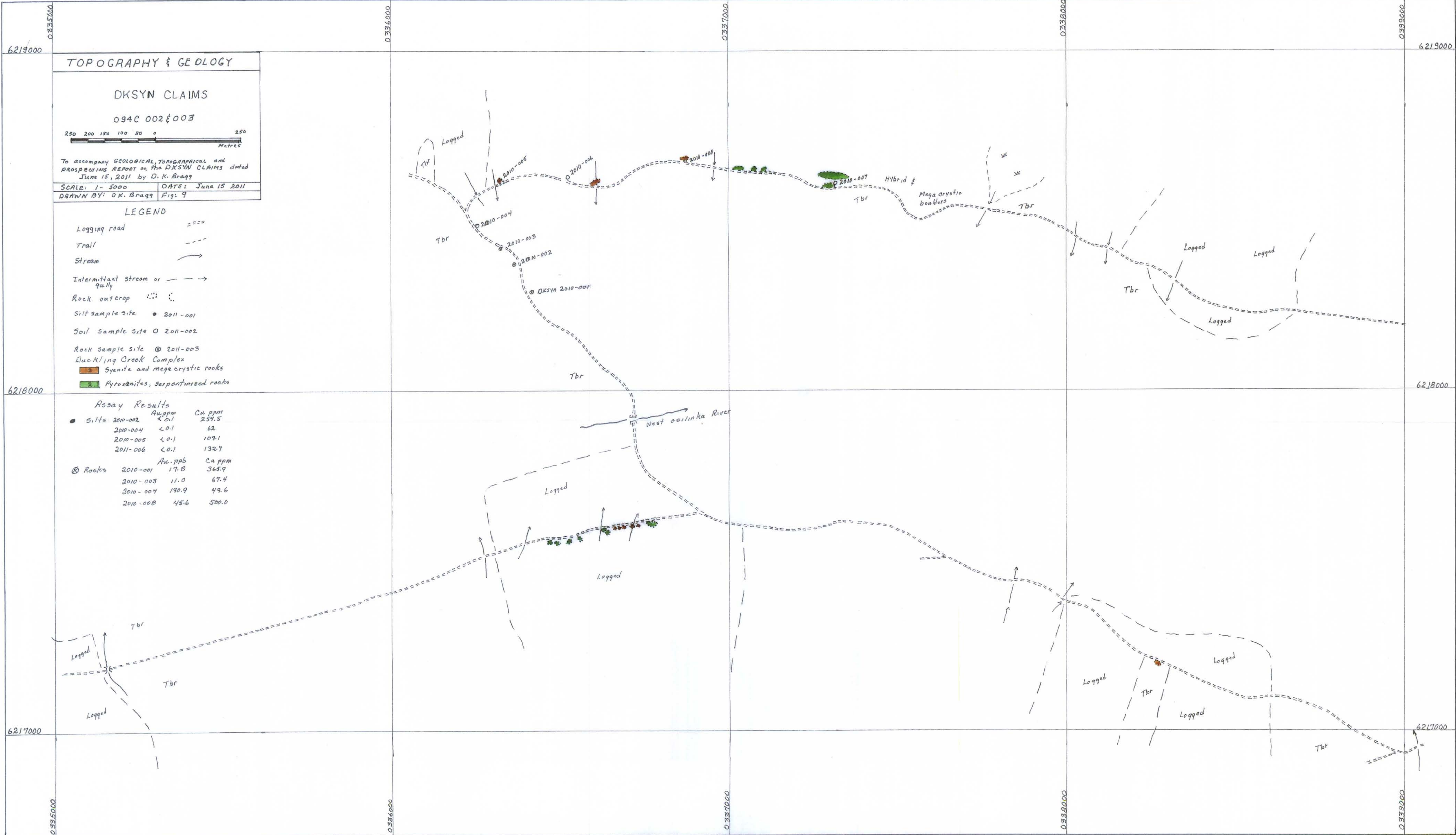
## QUALITY CONTROL REPORT

VAN11006502.1

Method		1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	1E	
Analyte	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Sn	Y	Nb	Be	Sc	S	
Unit	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.002	2	2	0.01	1	0.01	0.01	0.01	0.01	4	2	2	2	2	1	1	0.1	
<b>Reference Materials</b>																		
STD OREAS24P	Standard	0.135	16	183	4.07	287	1.05	7.69	2.59	0.69	<4	125	<2	21	19	1	19	<0.1
STD OREAS45C	Standard	0.052	25	921	0.24	280	1.19	7.17	0.10	0.36	<4	175	4	12	24	<1	59	<0.1
STD OXC88	Standard																	
STD OXC88	Standard																	
STD OXC88 Expected																		
STD OREAS24P Expected		0.136	17.4	196	4.13	285	1.1	7.66	2.34	0.7	0.5	141	1.6	21.3	21		20	
STD OREAS45C Expected		0.051	26.2	962	0.25	270	1.1313	7.59	0.097	0.36	1.06	169.7	2.9	12.9	23.05		59.03	0.021
BLK	Blank																	
BLK	Blank																	
BLK	Blank	<0.002	<2	<2	<0.01	<1	<0.01	<0.01	<0.01	<0.01	<4	<2	<2	<2	<2	<1	<1	<0.1

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.





**TOPOGRAPHY & GE OLOGY**

**DKSYN CLAIMS**

094C 002 & 003



To accompany GEOLOGICAL, TOPOGRAPHICAL and PROSPECTING REPORT on the DKSYN CLAIMS dated June 15, 2011 by D. K. Braag

SCALE: 1 - 5000 DATE: June 15 2011  
DRAWN BY: D.K. Braag FIG: 9

**LEGEND**

- Logging road =---
- Trail - - - -
- Stream ~~~~~
- Intermittent stream or gully - - - ->
- Rock outcrop ::::
- Silt sample site • 2011-001
- Soil sample site ○ 2011-002
- Rock sample site ⊗ 2011-003
- DucKling Creek Complex
  - Syenite and mega-crystic rocks
  - Pyroxenites, Serpentinized rocks

**Assay Results**

Silts	Au ppm	Cu ppm
2010-002	<0.1	254.5
2010-004	<0.1	62
2010-005	<0.1	109.1
2011-006	<0.1	132.7

Rocks	Au ppm	Cu ppm
2010-001	17.8	365.9
2010-003	11.0	67.4
2010-007	190.9	49.6
2010-008	45.6	500.0

West Oolinka River

6219000

6218000

6218000

6217000

6217000

0335000

0336000

0337000

0338000

0339000