

**Report on Rock Geo-Chemistry
For**

**The FOX Property
Summer of 2013**

**BC Geological Survey
Assessment Report
34351**

**By
Tom Kennedy**

Omenica Mining Division

**NTS
930F083, 930F093
UTM Co-Ordinates:
337788E, 5977447N**

November 2013

**GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT**

34,351

**Ministry of Energy and Mines
BC Geological Survey**

**ASSESSMENT REPORT
TITLE PAGE AND SUMMARY**

TITLE OF REPORT [type of survey(s)] <u>REPORT ON ROCK GEO-CHEMISTRY FOR THE FOX PROPERTY</u>	TOTAL COST <u>\$7819.00</u>
--	---------------------------------------

AUTHOR(S) TOM KENNEDY **SIGNATURE(S)** Tom Kennedy

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S) _____ **YEAR OF WORK** 2013

STATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S)/DATE(S) Event No. 5469634

PROPERTY NAME FOX GROUP

CLAIM NAME(S) (on which work was done) 750782, 751002, 843278, 843280

COMMODITIES SOUGHT SILVER, GOLD

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN _____

MINING DIVISION OMENICA **NTS** 093F083, 093F093

LATITUDE 53 ° 91 ' 45 " **LONGITUDE** 125 ° 46 ' 41 " (at centre of work)

OWNER(S)

1) KOOTENAY SILVER INC. 2) _____

MAILING ADDRESS

SUITE 1820-1055 W. HASTINGS ST.
VANCOUVER BC V6E 2E9 CANADA

OPERATOR(S) [who paid for the work]

1) KOOTENAY SILVER INC. 2) _____

MAILING ADDRESS

SUITE 1820-1055 W. HASTINGS ST.
VANCOUVER BC V6E 2E9 CANADA

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

OOTSA LAKE FORMATION, QUARTZ VEINS PYRITE ALTERATION, LEAD, MOLYBDENUM
WITH SILVER AND GOLD.

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS _____

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping _____			
Photo interpretation _____			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic _____			
Electromagnetic _____			
Induced Polarization _____			
Radiometric _____			
Seismic _____			
Other _____			
Airborne _____			
GEOCHEMICAL			
(number of samples analysed for ...)			
Soil _____			
Silt _____			
Rock <i>77 SAMPLES GROUND ILSX MATRIX ELEMENT ICP</i>	<i>75 0502, 75 0512, 813278, 843280</i>		<i>\$7819.00</i>
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			<i>\$7819.00</i>



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Mineral Titles Online

Mineral Claim Exploration and Development Work/Expiry Date Change

Confirmation

Recorder: **LAVOIE, DARLENE
ELIZABETH (132094)**

Submitter: **LAVOIE, DARLENE
ELIZABETH (132094)**

Recorded: **2013/SEP/29**

Effective: **2013/SEP/29**

D/E Date: **2013/SEP/29**

Confirmation

If you have not yet submitted your report for this work program, your technical work report is due in 90 days. The Exploration and Development Work/Expiry Date Change event number is required with your report submission. Please attach a copy of this confirmation page to your report. Contact Mineral Titles Branch for more information.

Event Number: **5469635**

Work Type: Technical Work

Technical Items: Geochemical, PAC Withdrawal (up to 30% of technical work performed)

Work Start Date: 2013/JUL/14

Work Stop Date: 2013/AUG/29

Total Value of Work: \$ 7819.00

Mine Permit No:

Summary of the work value:

Tenure Number	Claim Name/Property	Issue Date	Good To Date	New Good To Date	# of Days Forward	Area in Ha	Applied Work Value	Submission Fee
750982	FOX 1	2010/apr/17	2013/sep/30	2015/jan/08	465	457.22	\$ 2912.43	\$ 0.00
751002	FOX 2	2010/apr/17	2013/sep/30	2015/jan/08	465	457.09	\$ 2911.59	\$ 0.00
843278	FOX 3	2011/jan/17	2013/sep/30	2015/jan/08	465	456.96	\$ 2910.74	\$ 0.00
843280	FOX 4	2011/jan/17	2013/sep/30	2015/jan/08	465	381.11	\$ 2427.63	\$ 0.00

Financial Summary:

Total applied work value:\$ 11162.39

PAC name: Kootenay Gold Corp.

Debited PAC amount: \$ 3343.39

Credited PAC amount: \$ 0.0

Total Submission Fees: \$ 0.0

Total Paid: \$ 0.0

Please print this page for your records.

The event was successfully saved.

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1:00 SUMMARY

During the summer of 2013 seventy seven rock samples were collected on the FOX property. Significant values of gold and silver were obtained from a network of quartz veinlets within argillic and pyrite altered felsic rocks.

2.00 INTRODUCTION

This report describes the results of a Rock geochemistry program conducted on the FOX group of mineral claims during the summer of 2013.

2.10 Location and Access

The FOX GROUP of claims is located in the Omineca Mining division of central BC (NTS 093F083, F093) and is centered roughly at UTM Co-Ordinates 338000E and 5976000N (Fig.1), approximately 45 km Southeast of Burns Lake. Access to the property is provided by a series of haul roads branching off of the Binta main or 200 Haul road which can be accessed via small community Southbank in the west or from the east via the Francois Lake haul road.

2.20 Property

The FOX Claim group consists of 4 mineral tenures 750982, 751002, 843278, and 843280(Figure 2) owned by Kootenay Silver Inc of Vancouver BC.

2.30 Physiography

The FOX Claim group covers an area of rolling to gentle topography at elevations between 840m and 1060m. Roughly half of the property is covered by recent and older patches of clear-cut logging. The remainder of the property is covered by stands of pine beetle killed lodgepole pine and spruce balsam growths in swampy boggy lowlands. Windfall in these stands is common and in areas of older logging thick regeneration and alder growth makes traversing very difficult. Outcrop on the property is extremely poor with maybe five percent of the property containing rock outcrops, dominantly located on topographic highs or found along logging access. The remainder of the property is covered by variable amounts of till and outwash gravels.

2.40 History of Previous Exploration

The FOX Group of claims covers an area that has received little focussed exploration in the past. Several work programs were conducted in the area for molybdenum by various junior companies with limited soil sampling and geology. Two programs of previous rock geochemistry and prospecting were conducted on the claim group by Kootenay Silver Inc. (reports 32331, and 32952) with significant mineralization of silver and gold discovered in felsic volcanic rocks.

Figure 1. FOX Location Map

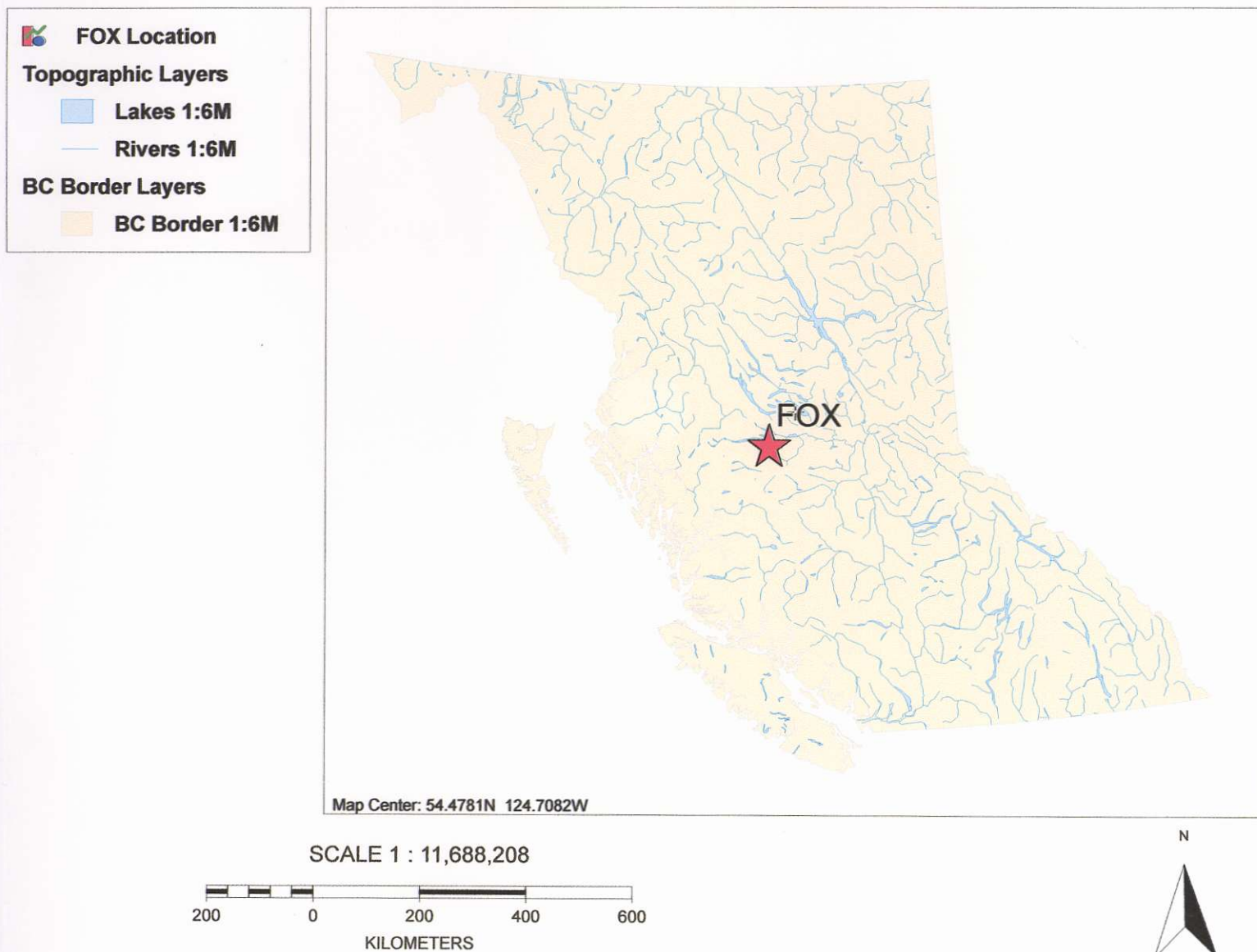


Figure 2. FOX Claim Map

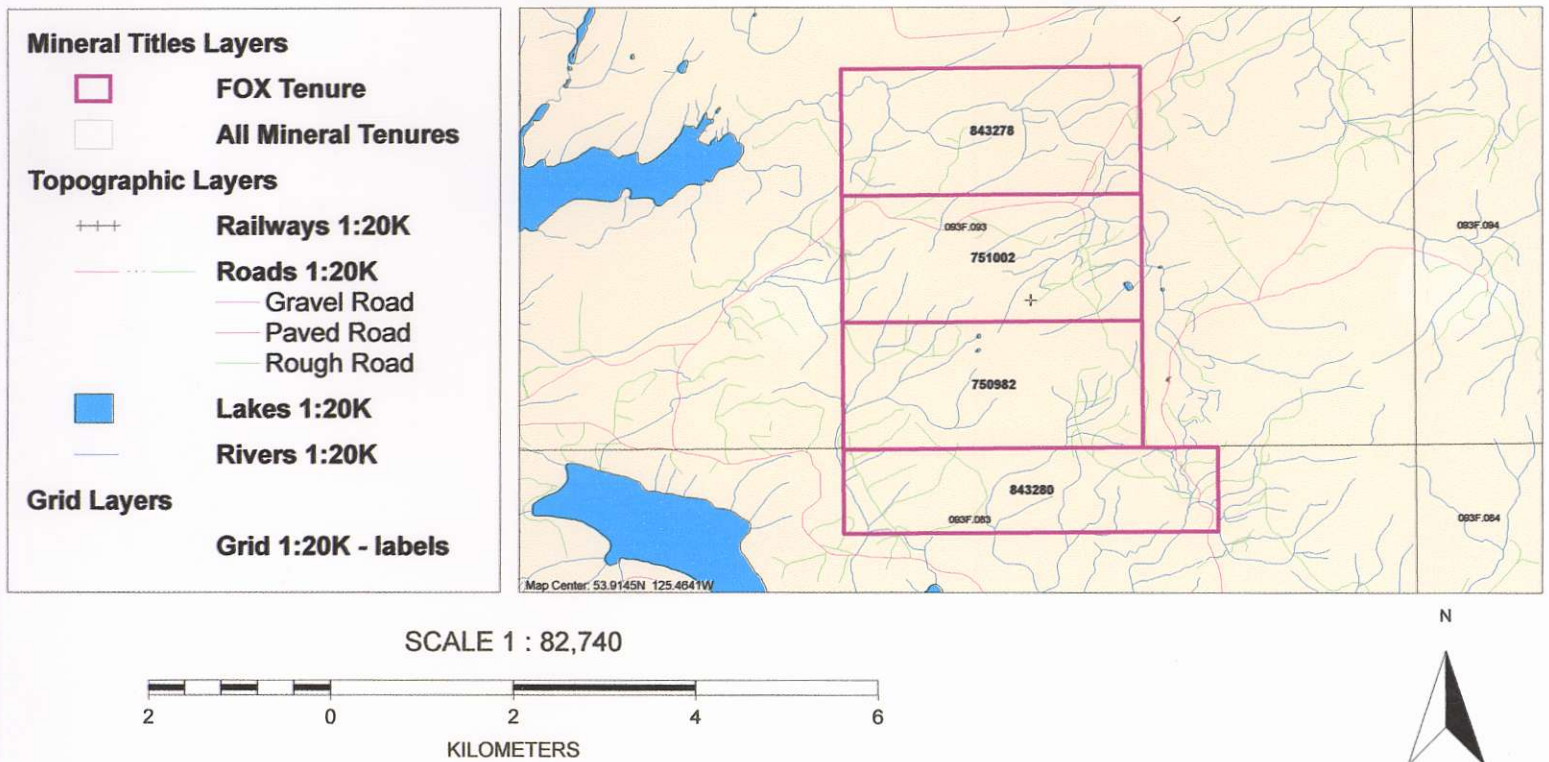
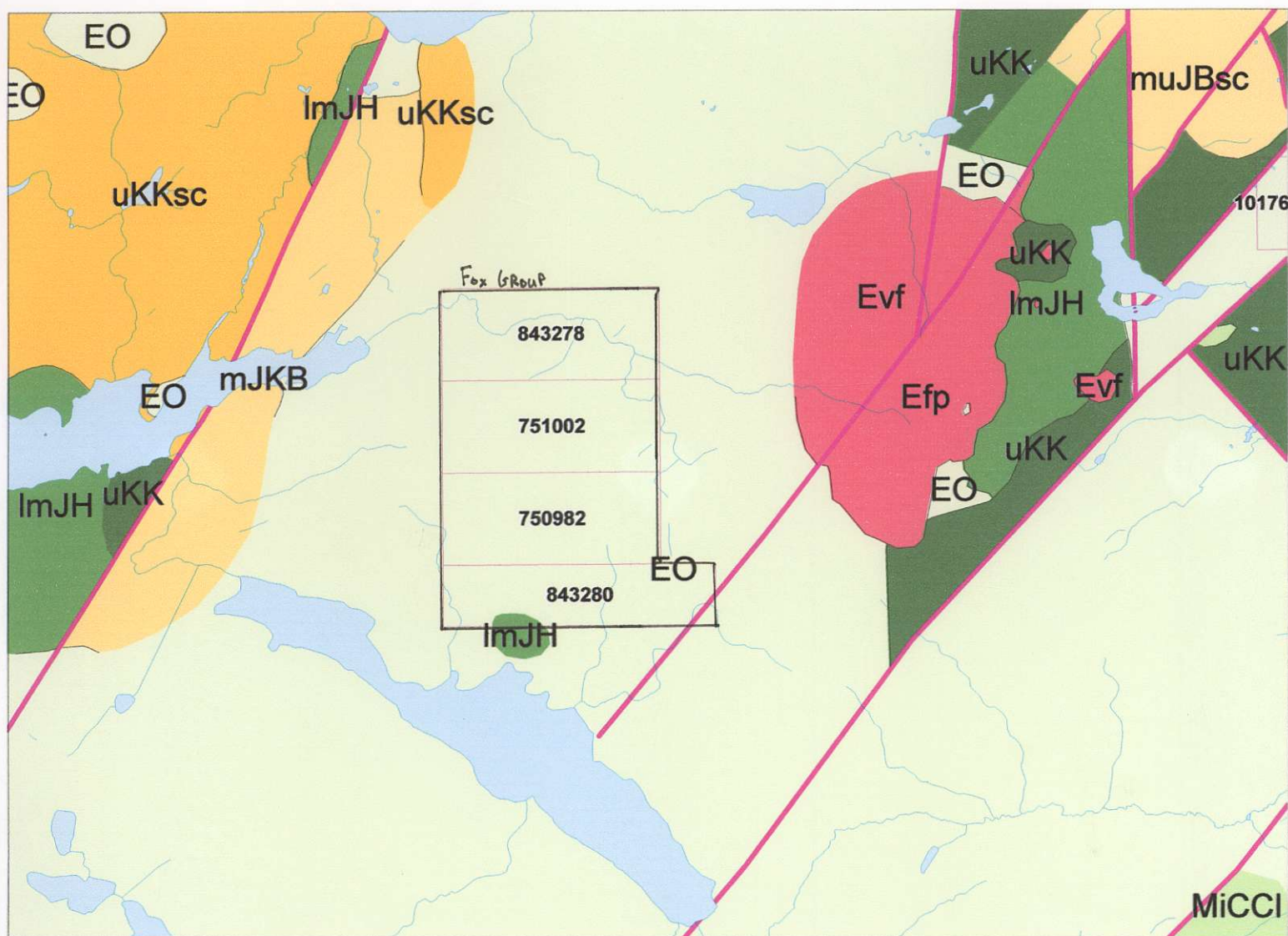


Figure 3. Regional Geology Map of the FOX Group



SCALE 1 : 94,811

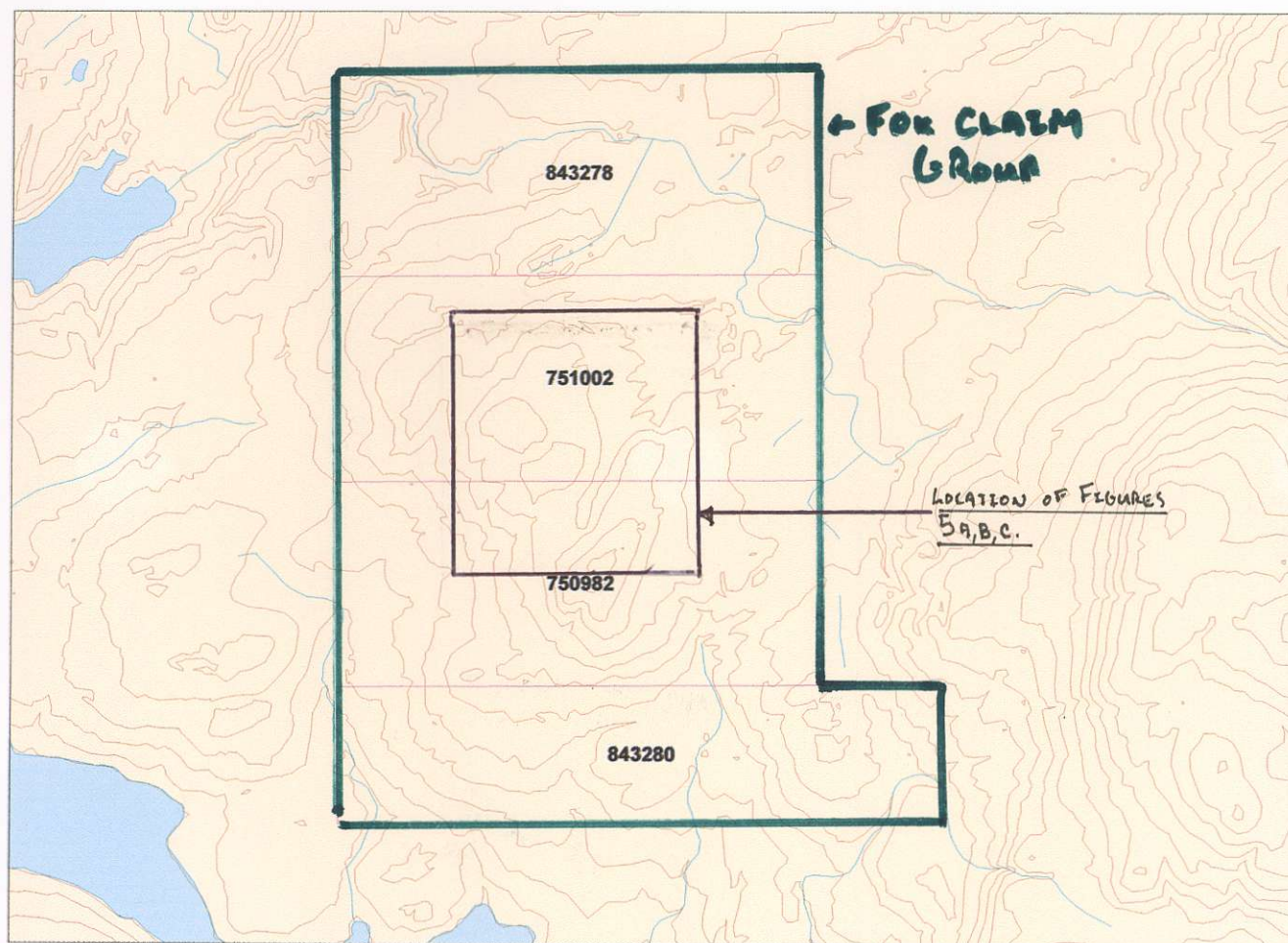


LEGEND

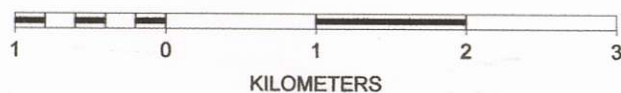
- Evf/Efp - Eocene Granite
- EO - Dotsa Lake Fm - Eocene Volcanics (Felsic)
- uKK/KKsc - Kaskaskia Formation - Upper Cretaceous Mafic Volcanics/Sediments
- mJKB - Bowser Group - Middle Jurassic Sediments
- ImJH - Hazleton Group - Jurassic Volcanic



Figure 4. Location of Figures 5A,B,C



SCALE 1 : 50,000



2.50 Purpose of work

The purpose of the 2013 rock geochemistry program on the FOX Group of claims was to try and extend an area of previously identified alteration and mineralization within the Eocene aged Ootsa Lake formation. This mineralization is associated with variable amounts of pyrite flooding and silicification of the host with thin quartz veining and brecciation and this style of material were targeted.

3.00 GEOLOGY

The FOX Group of claims covers an area underlain by felsic Eocene age Ootsa Lake formation bounded to the east and west by Cretaceous sedimentary and mafic volcanic rocks assigned to the Kasalka group (Figure 3 taken from MapPlace geology). Local outcrops of chert pebble conglomerate and andesite volcanics possibly of the Jurassic Hazelton Group as well as sedimentary dominant rocks of the Jurassic Bowser Group may occur locally on the property perhaps underlying the Ootsa lake formation. A possibly significant granitic intrusive body of Eocene age occurs close to the eastern boundary of the claim group and may play an important role in the mineralization found on the claim group.

4.00 ROCK GEO-CHEMISTRY RESULTS

4.10 ROCK GEOCHEM PROCEDURE

During the 2013 rock Geochemistry program samples 77 were collected. The samples were collected primarily from outcroppings and consisted mainly of grab or composite samples collected with hammers and picks. Locations were marked in the field with flagging and GPS readings were taken of each site with handheld GPS units. These samples were sent to ACME Analytical Laboratories where they were subjected to the Group ID and IDX multi-element assay package with gold given in ppb. Samples with over limits of lead, zinc, copper and silver were subjected to additional assay techniques to determine absolute levels given in percentages for base metals and ppm for silver.

Sample locations with values plotted for Molybdenum, Copper and Gold can be found on Figure 5A, Values for Lead, Zinc and Silver on Figure 5B and Values for Arsenic, Antimony and Bismuth on Figures 5C(in Pocket). A complete table of sample descriptions as well as UTM co-ordinates can be found in Appendix A, with Assay certificates in Appendix B

4.20 DISCUSSION OF RESULTS

Molybdenum:

Values for molybdenum of the samples collected were overall moderate to highly anomalous. Of the seventy seven samples collected sixty one samples ran above 5ppm with fifty three samples greater than 10ppm. Thirty one samples gave values over 25ppm with twenty one samples running 50ppm or above. Ten samples assayed above 100ppm

including the program highs of 163.7ppm(TK13-529), 199.2ppm(TK13-530), and 267.4ppm(TK13-586). Higher levels of molybdenum are commonly accompanied by elevations for lead. The program highs for molybdenum are also coincident with extremely high levels of silver and gold. In general molybdenum is the most widely dispersed anomalous element in the survey.

Copper:

Copper values obtained from the sampling program are low to weakly anomalous. Only eight samples gave values over 25ppm with three of these above 50ppm, comprising the program highs at sample sites TK13-526(66.2ppm), TK13-529(68.0ppm), and TK13-528(312.4ppm). The highest values of copper are coincident to those for lead, molybdenum, gold and silver, but it appears to be a minor constituent overall on the property.

Lead:

Overall moderate to elevated levels of lead were returned from the samples collected in the 2013 program. Forty one samples assayed above 25ppm with twenty six of them greater than 50ppm. Twenty two samples ran over 100ppm; twelve of which were above 250ppm and six above 500ppm. The program highs consisted of 1883ppm(TK13-526), 2073ppm(TK13-529), 3336ppm(TK13-528). Lead highs are commonly consistent to those of molybdenum, silver and to a lesser extent gold. The highest samples for lead are also coincident to those of gold and silver. Lead, with molybdenum are the most widely anomalous elements in the survey.

Zinc:

Fairly low levels of zinc were obtained in the samples collected. Only twelve samples ran above 50ppm with two above 100ppm; at TK13-592(126ppm), and TK13-528(262ppm). Zinc levels are too low to draw any obvious correlations or importance.

Silver:

Silver levels in the samples assayed are in general moderately to extremely elevated. Thirty three samples nearly half of those collected gave results above 5ppm, with twenty seven above 10ppm. Twenty three samples ran over 25ppm; eighteen of them higher than 50ppm. Fifteen samples ran over 100ppm and ten greater than 500ppm. Nine samples returned extremely high levels for silver of over 1000ppm with the program highs at TK13-529(2935ppm), TK13-526(4318ppm), and TK13-528(6049ppm). Silver appears to be related to lead, molybdenum and gold. The program highs for all are coincident and elevated levels of silver elsewhere have similarly elevated values of molybdenum and lead.

Gold:

Gold values from the program were moderate to highly anomalous. Thirty four or nearly half of the seventy seven samples collected, returned results above 25ppb, with twenty eight of these 50ppm and above. Twenty four samples gave values over 100ppb, seventeen samples above 250ppb, and fourteen over 500ppb. Eleven samples returned levels over 1000ppb, eight over 5000ppb and six greater than 10000. The program highs

consisted of 20235ppb(TK13-532), 27096ppb(TK13-526), 32634ppb(TK13-528). As noted above gold occurs with both molybdenum, lead and silver, the program highs for all occur together, and elsewhere elevated gold occurs most consistently with the higher samples for silver.

Arsenic:

Arsenic levels in the survey are in general rather low. Fourteen samples ran above 25ppm, six of these above 50ppm. Two samples assayed greater than 100ppm and comprise the program highs at TK13-530(157.2ppm), and TK13-535(201.7ppm). As with zinc; arsenic thus far appears to be a minor importance in the mineralized system on the property.

Antimony:

Antimony levels overall in the samples collected were low with local highs. Fourteen samples ran above 2ppm, nine greater than 5ppm and eight above 10ppm. Six samples ran above 25ppm, and three above 50ppm; the program highs of 53.9ppm(TK13-529), 70.3ppm(TK13-528), and 122.2ppm(TK13-526).

Bismuth:

Very low levels of Bismuth were obtained from the samples assayed with only one sample at TK13-386(3.8ppm) above 1ppm.

4.00 CONCLUSIONS AND RECOMMENDATIONS

The rock sampling program on the FOX property conducted in 2013 uncovered an area of extremely high values for silver and gold in conjunction with elevated levels of lead and molybdenum.

Additional sampling coupled with geological mapping, trenching and geophysics should be carried out in the area of known mineralization.

5.00 STATEMENT OF COSTS

Tom Kennedy 5 days @ \$500.00/day(vehicle inclusive)	\$2500.00
ATV Rental 3days@\$150.00/day	\$450.00
Tom Kennedy Report and Drafting	\$1200.00
77 Samples	\$2737.00
Travel and L/O	<u>\$932.00</u>
Total	<u>\$7172.00</u>

6.00 AUTHOR'S QUALIFICATIONS

As author of this report I, Tom Kennedy certifies that:

- 1) I am an independent consulting prospector residing at 1082 Cote Rd, South Slocan, B.C.
- 2) I have been actively involved in mining and mineral exploration for the past 20 years.
- 3) I have been employed by individuals as well as Junior and Major mining companies.
- 4) I have created and optioned numerous grass-roots mineral exploration properties.

Tom Kennedy

Prospector

APPENDIX 1

Rock Geo-chem Sample Descriptions and Co-Ordinates

Sample No.	UTM E	UTM N	Description
TK13-321	338153	5976727	Rebrecciated rhyolite and andesite with some drusy overprinting quartz with siliceous matrix brecciation and reddish oxide
TK13-322	337920	5976617	Narrow openspace quartz crystal veinlets zone with limonite alteration of host green volcanic with some reddish oxide -strike 10 degrees dip 75 degrees
TK13-323	337920	5976617	Vuggy quartz crystal veinlet material same location as above
TK13-324	337907	5976590	30 degree trending vertical dipping thin drusy quartz and crush brecciation in green volcanic with some limonite and fresh pyrite
			Pyrite flooded silicified rhyolite feldspar porphyry with fresh pyrite disseminated and thin
TK13-325	338038	5976439	quartz veinlets in rebrecciated material -cloudy appearance to feldspars albitized?
TK13-326	338038	5976439	Same as above- some reddish oxide
TK13-327	338054	5976439	Same unit as above with sugary alteration and thin openspace quartz veinlets with some yellow oxide in rotted out clots
TK13-328	337946	5976317	Feldspar porphyry unit pyrite flooded in patches and cut by thin silica veinlets -disseminated fresh pyrite
TK13-329	337489	5976090	Feldspar porphyry unit with thin bleached fractures and rare coatings of drusy silica with hematite and limonite staining -amethyst vugs?
			Silicified feldspar porphyry with pyrite flooding and erratic quartz crystal openspace veining with some rebrecciation and silica coatings. Limonite and hematite staining with fresh pyrite
TK13-330	337240	5976876	and rotted blackish mineral galena? -grab sample of quartz veined material
TK13-331	337240	5976876	Same as Above
TK13-332	337193	5976890	Similar material to above white quartz veining with openspace quartz crystal cavities some limonite and pyrite with reddish oxide
TK13-333	337286	5976963	Same alteration as above samples pyrite flooded limonitic stained porphyry unit cut by crystalline quartz veins with openspace cavities some hematite
TK13-334	337308	5976918	Limonite/pyrite flooded porphyry unit micro and macro veined -openspace quartz crystal type with some rebrecciation and drusy quartz coatings -reddish oxide
TK13-335	337271	5976915	Thin N/S trending quartz veins with some sugary to crystalline texture in altered porphyry unit with pyrite and limonite with reddish oxide
TK13-336	337330	5977133	1m wide quartz breccia zone in porphyry unit with some limonite and pyrite alteration with quartz crystal vugs -50 degree strike dip to SE at 70 degrees
TK13-337	337275	5977116	Series of openspace quartz crystal vugs veins within limonite altered feldspar porphyry unit resilicified and brecciated with some pyrite coating quartz crystal cavities and some reddish oxide
TK13-338	337280	5977125	Pyrite altered feldspar porphyry unit silicified and cut by silica veining with some brecciation - grab of more densely veined material
TK13-339	337280	5977125	Same as Above
TK13-340	337182	5977217	Series of cm to half cm scale crystalline open space quartz cavity veining in porphyry unit with pyrite flooding sericite? Alteration -sample is grab of vein rich portion of zone with disseminated pyrite
TK13-341	337182	5977217	Same as Above
TK13-342	337035	5977005	Rebrecciated silicified porphyry unit with narrow zone of crush rebreccia containing some quartz fragments with limonite staining and reddish oxide
TK13-343	337051	5977024	Fractured re-fractured pyrite flooded feldspar porphyry unit with quartz crystal veining limonite and hematite staining and pink alteration of feldspar potassic?
TK13-344	337051	5977024	Rebrecciated pyrite/limonite altered porphyry unit with silica veining -openspace quartz crystal type
TK13-345	337110	5976998	Sericite altered pyrite flooded porphyry unit with some thin micro quartz veinlets and quartz crystal vugs
TK13-346	337153	5976980	Pyrite/limonite altered porphyry unit with white openspace quartz crystal veining and some hematite and limonite staining
TK13-347	337153	5976980	Pyrite/limonite and argillic altered porphyry unit with thin quartz veinlets of openspace crystal vugs filling variety
TK13-348	337157	5976943	Limonite and pyrite flooded porphyry unit with thin quartz veinlets-crystalline openspace type
TK13-349	337192	5976927	Openspace quartz veining with limonite and pyrite altered feldspar porphyry unit with some reddish staining and silicification along vein margins
TK13-350	337082	5977454	Bleached argillic altered porphyry unit cut by thin openspace quartz veining - pyrite and limonite alteration of host along with zones of siliceous matrix brecciation and some pink around pyrite rims -hematite? Or potassic? Alteration
TK13-374	336938	5977543	Thin N/S trending drusy quartz veinlets cutting rhyolite unit with bleaching and weak argillic alteration with pyrite and limonite

TK13-375	336938	5977543	Thin silica micro veining in altered ryholite porphyry unit with argillic alteration and some limonite and pyrite flooding
TK13-376	336938	5977543	4 inch wide jigsaw like breccia cutting ryholite with siliceous matrix reddish and limonite stained some quartz crystal veining -50 degree trend dip to SE 20degrees
TK13-377	336929	5977530	Zone of siliceous matrix brecciation in ryholite with fresh pyrite and some limonite boxworks and thin open space quartz crystal veins
TK13-378	336917	5977509	Narrow openspace quartz vein with some limonite alteration in ryholite and rebrecciation
TK13-379	336917	5977509	Series of openspace quartz crystal veinlets with limonite staining and yellow brown oxide -10 degree trend
TK13-380	336917	5977509	En echelon zone to above with similar material some black manganese and carbonate
TK13-381	336902	5977493	20 degree striking dip 70 degree to E fault breccia zone with silicification and narrow chalcedonic to crystal type quartz veinlets and cement along contact of ryholite and other andesite volcanic unit -pyrite flooding and argillic alteration -5m wide - dimples is of argillic altered quartz breccia in felsic host with limonite and pyrite with a yellow staining
TK13-382	336902	5977493	Same zone as above -composite of a .5m wide section of milled breccia material with silica casts and limonite alteration
TK13-383	336902	5977493	Same zone as Above- sample is a bloc of veined and siliceous material argillic altered with limonite and pyrite
TK13-384	336901	5977472	Above fault zone - silicified matrix breccia with silicified clasts and pyrite flooding disseminated in bluish colored siliceous matrix
TK13-385	336901	5977472	
TK13-386	337086	5977464	Ryholite feldspar porphyry subcrop cut by thin open space quartz crystal veinlets with pyrite and limonite alteration of host with a weak bleaching
TK13-387	337247	5977623	Road bed material of openspace quartz crystal veining in ryholite host with some hematite and limonite alteration
TK13-519	336904	5977252	Rebrecciated feldspar porphyry unit with some reddish oxide and yellow staining with thin quartz crystal veinlets
TK13-520	336921	5977241	Argillic altered limonite flooded ryholite with some quartz crystal veining
TK13-521	336940	5977244	Same as above material with crystalline quartz veinlets and limonite
TK13-522	337001	5977062	Subcrop of reddish oxidizing silicified ryholite pyrite flooded and cut by thin openspace quartz veinlets
TK13-523	337020	5977087	Siliceous ryholite rebrecciated with rare quartz veinlets with limonite and pyrite alteration
TK13-524	337069	5977141	Area of quartz veining trending 330 degrees dipping near vertical cutting pyrite flooded ryholite porphyry unit with grey alteration of feldspars sample is a centimetre scale veinlets within limonite stained and pyrite flooded ryholite
TK13-525	337069	5977141	Centimetre scale veinlets of openspace quartz with limonite and reddish oxide cutting pyrite flooded ryholite
TK13-526	337069	5977141	Crystalline blackish quartz with disseminated pyrite in host -4-6 inches in width
TK13-527	337069	5977141	6 inch wide openspace quartz crystal vein with disseminated pyrite and black mineral cutting pyrite flooded ryholite
TK13-528	337069	5977141	Same vein as above grab of quartz breccia material with reddish oxide and pyrite
TK13-529	337069	5977141	Same vein as above grab of quartz material with quartz crystals and pyrite with black rotted mineral
TK13-530	337069	5977141	Same vein as above limonite rich quartz vein material with black weathering mineral reddish oxide
TK13-531	337069	5977141	Same vein network as above 0.5m wide -grab of quartz material with pyrite and blackish mineral and amethyst quartz
TK13-532	337069	5977141	Above vein on strike with blackish mineral and fresh pyrite -amethyst quartz
TK13-533	337069	5977141	Thin quartz crystal veinlets with some iron staining in pyrite flooded ryholite
TK13-534	337069	5977141	Sulphide flooded porphyry with grey alteration and thin openspace quartz crystal veining with rotted out blackish mineral
TK13-535	337287	5976957	6inch composite of cm scale openspace quartz veinlets with some limonite and pyrite with a blackish mineral -in area of sample TK13-333
TK13-536	337287	5976957	6 inch to foot wide composite of thin quartz veinlets within limonite altered porphyry
TK13-537	337287	5976957	Veined and sheared pyrite altered porphyry unit with some reddish iron staining with openspace quartz veinlets and rare blackish mineral
TK13-538	337287	5976957	Foot wide composite of brecciated pyrite flooded limonite stained porphyry with some openspace quartz crystal veinlets
TK13-539	337287	5976957	Sulphide flooded porphyry unit with some white openspace quartz -composite of a foot wide interval of outcrop

TK13-540	337287	5976957	Grab of quartz veinlet cutting porphyry unit with purple reddish oxide with blackish mineral and pyrite
TK13-586	337734	5976528	Sulphide altered rhyolite with limonite and reddish oxide with thin openspace to chalcedonic quartz
TK13-587	337194	5976915	Sulphide flooded grey porphyry with thin openspace quartz crystal veinlets
TK13-588	337160	5976933	Sulphide flooded and silicified grey rhyolite porphyry cut by thin open space quartz crystal veinlets and some yellowish staining
TK13-589	337114	5977007	Thin quartz veinlets milky to crystalline rebroken material -30 degree trend
TK13-590	337114	5977007	En-echelon veinlets to above with some limonite staining
TK13-591	337114	5977007	Zone of pyrite flooded and silicified rhyolite with thin silica veinlets
TK13-592	337129	5977078	Pyrite flooded silicified rhyolite with yellow oxide and some reddish staining with fresh pyrite and openspace quartz crystal veinlets
TK13-593	337450	5977162	Weak limonite altered rhyolite with thin openspace quartz crystal veinlets -rare reddish staining
TK13-594	337491	5977280	Cm scale crystalline quartz vein with some limonite staining of rhyolite host with rare reddish oxide
TK13-595	337720	5977410	Broken and busted up outcrop of rhyolite with some limonite staining and slips with openspace quartz crystal veinlets and thin rare reddish streaks
TK13-596	337572	5976632	Zone of quartz brecciation with some pyrite and reddish oxide in rhyolite

APPENDIX 2
ASSAY SHEETS



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CERTIFICATE OF ANALYSIS

VAN13003477.1

	Method Analyte Unit MDL	WGHT	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.05	0.1	0.05	0.1	1	0.1	0.1	0.1	2
TK13-519	Rock	0.02	89.4	2.4	29.4	14	0.9	0.8	<0.1	77	0.52	2.8	2.3	1.3	9.9	4	<0.1	0.9	<0.1	2
TK13-520	Rock	0.96	21.6	2.5	15.3	17	0.8	0.7	0.2	87	0.95	2.4	1.9	8.3	7.3	11	<0.1	0.3	0.4	4
TK13-521	Rock	0.56	9.8	3.9	20.6	11	4.0	0.8	0.2	96	0.83	14.8	0.9	73.7	2.4	25	<0.1	0.7	<0.1	3
TK13-522	Rock	0.83	137.2	3.8	31.1	45	7.0	0.8	0.2	89	1.45	17.9	1.3	21.9	3.7	7	0.3	1.8	<0.1	5
TK13-523	Rock	0.80	40.6	6.7	16.7	33	2.9	0.7	0.2	86	0.87	5.8	2.2	5.5	8.1	4	<0.1	0.7	0.1	4
TK13-524	Rock	0.65	13.8	20.3	141.0	23	16.5	0.4	0.1	86	1.81	22.5	1.0	34.5	4.6	48	<0.1	1.2	<0.1	4
TK13-525	Rock	0.49	16.5	39.8	427.1	45	>100	0.8	0.1	74	1.14	14.5	0.9	3806	3.3	18	<0.1	18.2	<0.1	5
TK13-526	Rock	0.86	51.4	66.2	1883	84	>100	0.5	<0.1	53	2.00	23.7	0.1	27096	0.9	8	0.3	122.2	0.3	5
TK13-527	Rock	0.92	17.0	22.1	558.0	37	>100	0.7	<0.1	39	0.72	8.8	0.2	15209	1.1	4	0.2	37.3	<0.1	4
TK13-528	Rock	0.80	9.4	317.4	3336	262	>100	0.8	0.1	48	1.11	39.9	0.4	32634	1.3	11	2.3	70.3	0.3	2
TK13-529	Rock	0.73	183.7	69.0	2073	46	>100	0.5	<0.1	40	2.27	57.3	0.4	18064	1.6	24	<0.1	59.9	0.3	7
TK13-530	Rock	0.76	199.2	25.8	821.8	34	>100	0.8	<0.1	73	2.78	157.2	0.4	7761	1.8	40	0.1	18.4	0.2	5
TK13-531	Rock	0.59	108.3	19.1	828.1	24	>100	0.8	<0.1	53	0.75	9.8	0.2	9105	0.6	8	<0.1	25.8	0.2	3
TK13-532	Rock	0.74	50.6	27.5	448.6	61	>100	0.8	0.1	81	0.77	10.3	0.1	20235	0.2	5	0.4	43.4	<0.1	4
TK13-533	Rock	0.57	15.9	5.1	12.3	11	9.9	0.5	<0.1	42	0.39	8.9	1.5	64.7	5.8	4	<0.1	1.0	<0.1	3
TK13-534	Rock	0.80	13.3	4.2	112.1	6	68.2	0.4	<0.1	40	1.24	43.1	0.3	425.5	2.2	40	<0.1	3.0	<0.1	4
TK13-535	Rock	0.72	78.8	14.8	56.0	38	>100	0.5	0.1	44	1.44	201.7	0.9	826.7	4.0	4	0.3	4.0	<0.1	3
TK13-536	Rock	0.60	100.4	5.5	402.2	38	>100	0.5	<0.1	76	1.30	52.0	0.6	490.6	3.8	6	0.2	2.3	<0.1	3
TK13-537	Rock	0.67	33.5	5.7	48.8	58	34.4	0.4	0.3	87	1.33	29.8	1.4	151.7	5.8	5	0.2	1.8	<0.1	3
TK13-538	Rock	0.84	21.1	6.8	72.3	27	40.5	0.4	<0.1	38	1.24	19.5	1.1	234.6	5.5	22	<0.1	1.1	<0.1	3
TK13-539	Rock	0.54	4.2	3.8	13.3	10	2.5	0.4	0.1	94	0.91	15.8	0.7	18.9	5.8	8	<0.1	0.5	<0.1	4
TK13-540	Rock	0.32	17.3	10.9	440.1	8	>100	0.5	<0.1	32	1.09	30.1	0.2	10784	2.0	7	<0.1	9.1	<0.1	3



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Part: 2 of 2

CERTIFICATE OF ANALYSIS

VAN13003477.1

	Method	Analyte	Unit	MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	7AR	66Gr			
					P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ge	Se	Te	Ag	Ag
					%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t	gm/t
					0.001	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	2	50
TK13-519	Rock				0.014	36	2	0.02	18	0.001	<1	0.24	0.001	0.22	<0.1	<0.01	0.4	0.2	<0.05	1	<0.5	0.2		
TK13-520	Rock				0.028	63	2	0.02	51	0.004	<1	0.24	0.006	0.22	<0.1	<0.01	0.6	<0.1	<0.05	2	<0.5	<0.2		
TK13-521	Rock				0.026	38	2	<0.01	72	0.003	<1	0.15	0.004	0.19	<0.1	0.01	0.4	0.1	0.08	<1	<0.5	<0.2		
TK13-522	Rock				0.036	42	1	<0.01	76	0.001	<1	0.24	0.002	0.23	0.9	0.02	0.5	0.2	0.08	2	0.6	0.6		
TK13-523	Rock				0.015	42	2	0.02	32	0.005	<1	0.26	0.003	0.22	0.5	<0.01	0.6	0.1	<0.05	2	<0.5	<0.2		
TK13-524	Rock				0.046	66	2	<0.01	87	0.004	<1	0.22	0.031	0.36	0.1	0.03	0.9	0.2	0.25	2	0.5	<0.2		
TK13-525	Rock				0.034	33	2	0.02	38	0.003	<1	0.25	0.018	0.22	0.1	0.30	0.6	0.1	0.07	2	2.6	<0.2	>300	817
TK13-536	Rock				0.020	5	2	<0.01	63	0.001	<1	0.09	0.011	0.28	<0.1	1.65	0.3	0.2	0.46	1	24.9	<0.2	>300	4318
TK13-527	Rock				0.013	7	2	<0.01	22	<0.001	<1	0.08	0.002	0.09	<0.1	0.47	0.3	<0.1	0.08	<1	9.9	<0.2	>300	2066
TK13-528	Rock				0.016	12	2	<0.01	50	0.002	<1	0.11	0.003	0.21	<0.1	0.60	0.3	0.1	0.61	<1	20.7	<0.2	>300	6049
TK13-529	Rock				0.042	18	2	<0.01	80	0.002	<1	0.11	0.006	0.30	0.1	0.76	0.5	0.2	0.43	2	21.2	<0.2	>300	2935
TK13-538	Rock				0.040	21	2	<0.01	114	0.002	<1	0.08	0.007	0.28	0.2	0.43	0.3	0.2	0.44	1	7.3	<0.2	>300	1757
TK13-531	Rock				0.013	4	2	<0.01	22	0.001	<1	0.06	0.001	0.09	0.2	0.33	0.2	0.1	0.09	<1	8.3	<0.2	>300	1530
TK13-532	Rock				0.011	2	2	<0.01	24	0.001	<1	0.09	0.001	0.11	0.1	0.49	0.3	<0.1	0.10	<1	13.2	<0.2	>300	2466
TK13-533	Rock				0.006	20	2	0.01	9	<0.001	<1	0.24	0.001	0.23	<0.1	0.01	0.5	0.1	<0.05	2	<0.5	<0.2		
TK13-534	Rock				0.016	18	2	<0.01	56	0.007	<1	0.12	0.004	0.20	0.4	0.11	0.5	0.1	0.16	<1	<0.5	<0.2		
TK13-535	Rock				0.029	30	2	<0.01	80	0.002	<1	0.15	0.008	0.17	0.4	0.05	0.5	<0.1	0.16	<1	<0.5	0.3	174	
TK13-536	Rock				0.025	23	2	<0.01	66	0.002	<1	0.14	0.005	0.17	0.5	0.07	0.7	<0.1	0.23	<1	1.0	<0.2	111	
TK13-537	Rock				0.036	47	2	<0.01	55	0.002	<1	0.21	0.010	0.21	0.3	0.04	0.7	<0.1	<0.05	<1	0.5	<0.2		
TK13-538	Rock				0.042	45	2	<0.01	66	0.002	<1	0.19	0.011	0.26	0.2	0.04	0.7	<0.1	0.06	<1	<0.5	<0.2		
TK13-539	Rock				0.037	50	2	0.01	66	0.003	<1	0.23	0.015	0.23	<0.1	0.01	0.7	0.1	0.05	2	<0.5	<0.2		
TK13-540	Rock				0.014	13	2	<0.01	41	0.002	<1	0.11	0.003	0.16	0.7	0.17	0.3	<0.1	0.10	<1	8.9	0.3	>300	1397

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Report Date: October 01, 2013

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

VAN13003565.1

	Method Analyte Unit MDL	WGHT	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2
TK13-586	Rock	0.73	267.4	3.5	116.6	8	3.2	0.6	0.2	65	0.66	4.7	1.8	10.5	9.6	5	<0.1	1.6	0.2	4	0.01
TK13-587	Rock	0.43	2.2	5.9	7.3	18	2.0	0.7	0.6	79	1.36	15.8	0.7	11.4	5.1	9	<0.1	0.6	<0.1	4	0.04
TK13-588	Rock	0.71	6.2	2.4	5.1	13	1.2	0.6	0.3	45	1.25	16.6	1.1	11.1	4.7	5	<0.1	0.6	<0.1	4	0.02
TK13-589	Rock	0.56	40.1	9.9	39.8	30	36.2	0.5	0.3	47	1.21	16.9	1.2	152.8	4.8	24	<0.1	1.1	<0.1	4	0.03
TK13-590	Rock	0.56	13.2	46.2	9.6	18	16.7	0.6	0.4	190	1.22	10.6	1.6	89.3	4.4	4	<0.1	1.5	<0.1	6	0.03
TK13-591	Rock	0.63	16.5	5.6	32.1	16	36.4	0.7	0.4	129	1.06	17.6	0.7	146.4	4.6	9	<0.1	0.6	<0.1	3	0.02
TK13-592	Rock	0.81	2.7	19.3	349.4	126	>100	1.0	0.3	122	1.64	27.2	0.6	2995	1.5	7	0.6	2.6	<0.1	5	0.02
TK13-593	Rock	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.
TK13-594	Rock	0.51	4.0	6.9	21.2	29	>100	0.6	0.3	60	1.11	3.9	1.3	889.8	3.4	10	<0.1	0.9	<0.1	3	0.03
TK13-595	Rock	0.32	2.1	10.6	6.1	62	1.9	0.7	1.2	451	2.19	4.0	1.7	2.5	3.9	7	<0.1	0.2	<0.1	8	0.10
TK13-596	Rock	0.56	90.7	8.7	243.0	82	2.6	1.0	0.5	72	1.14	16.4	0.7	17.6	4.0	11	0.6	1.1	<0.1	4	0.05
TK13-593	Rock	0.70	75.5	4.2	13.0	17	85.9	0.7	0.3	49	1.39	10.9	0.6	37.3	2.9	6	<0.1	0.9	<0.1	4	0.02



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CERTIFICATE OF ANALYSIS

VAN13003565.1

Method	Analyte	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	7AR	66Gr
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te	Ag	Ag
		Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t	gm/t
		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	0.8	0.2	2	50
TK13-586	Rock	0.009	21	5	<0.01	79	0.002	<1	0.18	0.004	0.25	0.1	<0.01	0.4	0.2	0.08	1	<0.5	<0.2		
TK13-587	Rock	0.034	48	9	0.03	113	0.004	<1	0.33	0.033	0.20	0.1	0.02	1.0	0.1	0.25	2	<0.5	<0.2		
TK13-588	Rock	0.033	38	10	0.01	72	0.017	<1	0.23	0.019	0.16	<0.1	0.02	0.9	<0.1	0.20	2	<0.5	<0.2		
TK13-589	Rock	0.033	39	7	0.01	93	0.016	<1	0.20	0.006	0.21	1.1	0.02	0.8	0.1	0.07	2	<0.5	0.5		
TK13-590	Rock	0.033	32	7	0.01	43	0.014	<1	0.21	0.003	0.17	1.8	<0.01	0.9	0.1	<0.05	3	<0.5	<0.2		
TK13-591	Rock	0.032	29	10	<0.01	77	0.007	<1	0.18	0.007	0.23	0.2	0.02	0.8	0.1	0.34	1	<0.5	0.2		
TK13-592	Rock	0.033	28	9	0.04	47	0.005	<1	0.27	0.007	0.20	0.3	0.09	0.8	0.1	0.41	3	1.5	<0.2	>300	1355
TK13-593	Rock	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.		
TK13-594	Rock	0.031	40	7	0.01	119	0.002	<1	0.25	0.016	0.21	<0.1	0.03	0.5	0.1	<0.05	2	0.7	<0.2	130	
TK13-595	Rock	0.037	39	4	0.07	49	0.002	<1	0.78	0.027	0.23	0.1	<0.01	2.0	<0.1	<0.05	6	<0.5	<0.2		
TK13-596	Rock	0.029	24	11	0.02	178	0.003	<1	0.27	0.020	0.18	<0.1	<0.01	0.6	0.1	0.10	2	<0.5	<0.2		
TK13-593	Rock	0.030	32	10	<0.01	58	0.002	<1	0.19	0.004	0.22	1.2	0.02	0.8	0.1	<0.05	1	<0.5	<0.2		



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CERTIFICATE OF ANALYSIS

VAN13002742.1

	Method Analyte Unit MDL	WGHT	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2
TK13-321	Rock	0.73	8.0	10.6	16.1	44	0.4	6.5	3.6	323	1.43	42.7	2.6	3.6	5.9	8	0.2	1.7	0.3	14
TK13-322	Rock	0.35	3.6	15.2	25.4	44	0.2	15.9	7.1	235	2.40	6.9	0.2	9.4	0.8	7	<0.1	0.4	<0.1	21
TK13-323	Rock	1.13	1.5	11.8	8.7	51	0.3	15.7	7.5	170	3.07	7.3	0.4	22.8	1.4	12	<0.1	0.5	<0.1	31
TK13-324	Rock	0.68	59.9	14.3	17.4	74	1.8	45.0	15.2	353	4.87	50.2	0.8	12.3	1.9	10	<0.1	0.9	<0.1	42
TK13-325	Rock	0.59	87.1	3.1	11.2	15	6.6	0.8	0.2	69	0.95	1.1	2.0	8.1	5.2	6	<0.1	0.2	0.3	4
TK13-326	Rock	0.80	45.8	2.6	8.2	15	0.4	0.8	0.3	117	0.83	0.8	2.6	<0.5	4.7	6	<0.1	0.2	0.2	5
TK13-327	Rock	0.81	7.0	3.2	9.1	30	0.1	0.8	0.6	434	0.88	3.9	1.2	1.1	9.3	9	0.2	0.3	<0.1	5
TK13-328	Rock	0.92	13.7	2.2	10.1	17	0.2	0.6	0.2	83	0.78	2.1	2.9	2.8	8.8	6	<0.1	0.2	<0.1	4
TK13-329	Rock	0.75	1.7	4.4	12.6	44	<0.1	2.7	2.3	267	1.69	2.0	0.8	9.4	4.3	6	<0.1	0.2	<0.1	20
TK13-330	Rock	1.16	35.0	9.6	44.3	65	8.9	0.7	0.8	166	1.42	6.8	1.5	128.9	3.0	17	<0.1	1.0	<0.1	4
TK13-331	Rock	1.22	55.0	11.5	223.5	8	>100	0.8	<0.1	26	1.53	13.5	0.4	871.4	2.8	17	<0.1	1.1	0.2	2
TK13-332	Rock	0.66	1.5	5.8	12.1	19	1.8	0.6	0.2	113	1.05	7.5	0.7	7.8	4.0	5	<0.1	0.5	<0.1	4
TK13-333	Rock	0.74	12.3	13.6	162.7	45	>100	0.7	0.1	43	1.41	19.6	0.9	1505	4.8	8	<0.1	3.5	<0.1	3
TK13-334	Rock	1.12	2.2	6.6	29.2	53	55.8	0.6	0.2	49	1.44	75.9	1.1	253.2	4.0	4	<0.1	1.8	<0.1	5
TK13-335	Rock	0.58	0.5	3.7	4.7	22	8.8	0.5	0.3	107	0.76	1.8	0.6	5.8	2.1	6	<0.1	0.1	<0.1	4
TK13-336	Rock	1.06	10.4	7.8	46.9	34	11.5	0.5	0.3	167	0.67	5.5	0.7	57.8	2.9	2	<0.1	0.5	<0.1	3
TK13-337	Rock	1.04	84.0	1.6	21.2	11	3.8	0.2	0.3	78	0.65	9.6	0.7	9.9	4.9	4	<0.1	1.5	<0.1	3
TK13-338	Rock	0.50	2.8	1.6	7.3	16	0.8	0.4	<0.1	29	0.66	7.9	1.0	2.1	5.6	3	<0.1	0.5	<0.1	3
TK13-339	Rock	0.89	20.5	5.5	228.0	24	23.5	0.6	0.1	32	0.93	17.0	0.6	117.0	4.2	6	<0.1	0.9	<0.1	2
TK13-340	Rock	0.61	23.5	9.4	15.2	15	0.8	1.0	0.5	48	1.06	25.0	0.9	45.2	4.7	9	<0.1	1.5	<0.1	4
TK13-341	Rock	0.38	0.9	12.3	20.0	14	3.1	9.5	0.5	98	1.03	14.1	0.7	29.8	4.8	4	<0.1	0.8	<0.1	7
TK13-342	Rock	0.62	26.6	6.8	9.7	20	1.9	0.5	0.4	79	0.98	10.3	1.3	<0.5	2.3	14	<0.1	0.6	<0.1	6
TK13-343	Rock	0.79	13.2	7.3	7.9	13	0.7	0.8	0.2	105	1.51	19.3	1.2	13.4	2.8	19	<0.1	0.5	<0.1	13
TK13-344	Rock	0.68	27.1	4.0	31.7	11	2.1	0.3	0.1	41	1.05	19.5	0.9	14.2	2.3	46	<0.1	1.2	<0.1	4
TK13-345	Rock	0.73	12.4	2.0	6.0	9	2.3	0.5	0.3	42	1.03	22.1	0.7	17.1	4.8	7	<0.1	0.5	<0.1	5
TK13-346	Rock	0.81	3.2	7.2	25.1	39	8.0	0.8	0.4	130	1.14	14.3	0.9	48.9	3.6	5	<0.1	0.6	<0.1	4
TK13-347	Rock	0.47	5.7	1.5	3.0	12	1.1	0.6	0.1	73	0.89	4.1	0.9	5.1	5.4	5	<0.1	0.2	<0.1	5
TK13-348	Rock	0.96	31.5	3.8	7.0	12	2.5	0.6	0.5	77	1.12	8.6	1.4	11.1	5.0	8	<0.1	0.6	<0.1	5
TK13-349	Rock	0.55	1.4	4.1	4.1	11	1.1	0.5	0.2	74	1.28	18.2	0.6	11.8	5.0	16	<0.1	0.7	<0.1	5
TK13-350	Rock	0.80	55.5	8.4	59.5	8	26.3	0.6	0.4	.49	0.95	12.9	1.4	205.5	3.1	12	<0.1	1.5	0.3	3

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.

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Report Date:

August 06, 2013

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Part:

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CERTIFICATE OF ANALYSIS

VAN13002742.1

Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	7AR
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te	Ag
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	gm/t
MDL	0.001	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	2
TK13-321	Rock	0.048	18	11	0.16	60	0.003	<1	0.57	0.036	0.20	<0.1	0.03	1.1	0.2	<0.05	4	<0.5	<0.2
TK13-322	Rock	0.127	13	17	0.34	51	0.002	<1	0.93	0.020	0.21	<0.1	<0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
TK13-323	Rock	0.181	23	30	0.52	48	0.003	<1	1.22	0.028	0.25	<0.1	<0.01	2.3	<0.1	0.07	6	<0.5	<0.2
TK13-324	Rock	0.186	24	28	0.42	43	0.003	<1	1.70	0.025	0.22	<0.1	0.01	4.4	<0.1	0.27	6	<0.5	<0.2
TK13-325	Rock	0.009	20	9	0.03	45	0.013	<1	0.23	0.027	0.18	0.1	<0.01	0.7	<0.1	0.06	2	<0.5	<0.2
TK13-326	Rock	0.010	22	9	0.05	28	0.014	<1	0.25	0.029	0.18	<0.1	<0.01	0.7	0.1	0.21	2	<0.5	<0.2
TK13-327	Rock	0.007	18	6	0.06	39	0.013	<1	0.36	0.120	0.12	0.2	<0.01	1.6	<0.1	<0.05	2	<0.5	<0.2
TK13-328	Rock	0.005	23	9	0.03	29	0.016	<1	0.24	0.042	0.15	0.2	<0.01	0.8	<0.1	0.15	2	<0.5	<0.2
TK13-329	Rock	0.062	40	4	0.07	46	0.030	<1	0.52	0.037	0.25	0.2	<0.01	1.2	<0.1	<0.05	3	<0.5	<0.2
TK13-330	Rock	0.077	33	8	0.02	64	0.003	<1	0.31	0.013	0.18	0.5	0.02	0.8	<0.1	0.19	2	<0.5	0.3
TK13-331	Rock	0.016	18	7	<0.01	65	0.002	<1	0.17	0.010	0.23	0.3	0.07	0.4	0.1	0.17	2	<0.5	4.3
TK13-332	Rock	0.034	54	6	0.02	38	0.003	<1	0.28	0.020	0.17	0.2	<0.01	0.5	<0.1	<0.05	2	<0.5	<0.2
TK13-333	Rock	0.036	35	8	<0.01	59	0.003	<1	0.22	0.010	0.20	0.4	0.09	0.7	<0.1	<0.05	<1	<0.5	<0.2
TK13-334	Rock	0.028	24	10	0.01	57	0.003	<1	0.20	0.004	0.18	1.3	0.04	0.7	<0.1	<0.05	1	<0.5	<0.2
TK13-335	Rock	0.043	30	4	0.03	41	0.002	<1	0.36	0.025	0.24	<0.1	<0.01	0.4	<0.1	<0.05	2	<0.5	<0.2
TK13-336	Rock	0.011	20	9	<0.01	32	0.002	<1	0.13	0.003	0.16	1.5	<0.01	0.2	<0.1	<0.05	<1	<0.5	<0.2
TK13-337	Rock	0.020	35	6	<0.01	49	0.002	<1	0.18	0.003	0.19	0.2	0.02	0.5	0.1	<0.05	<1	<0.5	<0.2
TK13-338	Rock	0.026	43	6	<0.01	49	0.003	<1	0.17	0.007	0.20	0.1	0.02	0.5	<0.1	<0.05	<1	<0.5	<0.2
TK13-339	Rock	0.024	25	9	<0.01	47	0.005	<1	0.15	0.003	0.19	0.3	0.02	0.4	<0.1	<0.05	<1	<0.5	<0.2
TK13-340	Rock	0.031	30	9	0.01	53	0.014	<1	0.20	0.025	0.17	0.1	0.02	0.6	<0.1	0.66	1	<0.5	<0.2
TK13-341	Rock	0.034	34	8	0.04	50	0.022	<1	0.28	0.029	0.17	0.1	0.01	1.1	<0.1	0.35	2	<0.5	<0.2
TK13-342	Rock	0.032	29	6	0.01	62	0.006	<1	0.25	0.015	0.22	<0.1	<0.01	0.7	0.1	0.06	2	<0.5	<0.2
TK13-343	Rock	0.038	39	5	0.05	58	0.032	<1	0.37	0.023	0.30	0.2	0.01	1.5	0.1	0.12	4	<0.5	<0.2
TK13-344	Rock	0.025	41	5	<0.01	78	0.017	<1	0.19	0.008	0.29	0.2	0.03	0.5	0.1	0.15	2	<0.5	0.4
TK13-345	Rock	0.036	27	8	0.02	50	0.031	<1	0.22	0.016	0.22	0.2	0.02	0.7	<0.1	0.32	2	<0.5	<0.2
TK13-346	Rock	0.021	27	8	0.01	57	0.002	<1	0.22	0.009	0.17	1.1	0.01	0.7	<0.1	<0.05	2	<0.5	<0.2
TK13-347	Rock	0.029	36	7	0.01	44	0.005	<1	0.25	0.008	0.22	<0.1	<0.01	0.8	<0.1	<0.05	2	<0.5	0.2
TK13-348	Rock	0.033	35	9	0.02	44	0.012	<1	0.25	0.012	0.18	<0.1	0.01	1.0	<0.1	0.43	2	0.5	0.4
TK13-349	Rock	0.031	41	5	0.03	55	0.003	<1	0.32	0.031	0.20	<0.1	<0.01	1.1	<0.1	0.05	3	<0.5	<0.2
TK13-350	Rock	0.028	53	7	0.02	63	0.005	<1	0.23	0.040	0.19	0.1	0.05	0.6	0.1	0.26	2	<0.5	<0.2



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Report Date:

August 02, 2013

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CERTIFICATE OF ANALYSIS

VAN13002814.1

	Method Analyte Unit MDL	WGHT	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2
TK13-374	Rock	0.55	2.3	0.9	18.0	4	<0.1	0.3	<0.1	23	0.39	1.9	1.2	<0.5	6.9	4	<0.1	0.2	<0.1	2
TK13-375	Rock	0.62	8.4	2.5	21.8	13	0.1	0.5	<0.1	52	0.52	8.8	2.9	<0.5	15.6	4	<0.1	0.4	<0.1	2
TK13-376	Rock	0.45	12.2	1.7	19.0	12	0.3	0.8	0.2	47	0.54	7.1	1.4	1.0	11.0	6	<0.1	0.3	<0.1	2
TK13-377	Rock	0.61	19.2	3.6	25.1	21	0.2	0.8	0.4	81	0.75	5.6	2.1	<0.5	13.3	7	<0.1	0.4	<0.1	3
TK13-378	Rock	0.52	9.0	3.2	42.0	19	0.4	0.8	0.1	74	0.68	10.7	3.0	1.4	13.1	4	<0.1	0.4	<0.1	3
TK13-379	Rock	1.01	18.0	9.1	17.2	26	0.4	0.5	0.3	166	0.70	6.8	3.1	<0.5	12.6	2	<0.1	0.4	<0.1	3
TK13-380	Rock	0.60	18.3	6.2	79.1	13	0.6	0.4	<0.1	46	0.56	12.1	2.1	4.2	11.6	3	<0.1	0.6	<0.1	3
TK13-381	Rock	0.61	113.2	11.2	126.9	33	3.0	7.3	1.5	125	1.62	21.3	0.4	4.6	0.9	16	<0.1	1.2	0.1	19
TK13-382	Rock	1.22	162.9	25.1	131.4	70	3.6	27.6	6.6	324	3.16	35.4	1.5	13.3	1.6	19	0.3	1.6	0.2	26
TK13-383	Rock	0.70	125.7	9.0	142.8	23	2.8	5.0	1.0	86	1.42	13.1	0.4	6.0	0.9	6	0.1	0.8	0.1	12
TK13-384	Rock	0.63	101.1	15.2	31.2	30	1.6	4.6	1.4	71	1.23	20.3	1.3	5.4	3.8	7	0.1	0.9	0.2	10
TK13-385	Rock	1.17	26.2	19.7	14.4	39	2.0	27.5	6.2	366	3.66	16.1	0.8	6.7	1.6	16	<0.1	0.4	<0.1	35
TK13-386	Rock	0.57	26.1	3.1	412.1	7	7.3	0.5	0.4	47	0.67	10.9	1.4	39.2	3.5	9	<0.1	0.7	3.6	3
TK13-387	Rock	0.96	45.3	5.7	40.0	19	4.6	0.4	0.3	79	0.90	9.0	1.7	29.3	4.4	16	<0.1	0.7	0.1	7

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CERTIFICATE OF ANALYSIS

VAN13002814.1

	Method Analyte Unit MDL	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.001	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
TK13-374	Rock	0.005	8	2	<0.01	17	0.001	<1	0.21	0.011	0.22	<0.1	<0.01	0.3	0.1	<0.05	<1	<0.5	<0.2
TK13-375	Rock	0.006	20	2	0.01	38	0.001	<1	0.30	0.026	0.23	<0.1	<0.01	0.6	0.2	<0.05	2	<0.5	<0.2
TK13-376	Rock	0.006	15	2	<0.01	25	0.001	<1	0.27	0.021	0.20	<0.1	0.01	0.5	0.2	<0.05	1	<0.5	<0.2
TK13-377	Rock	0.009	19	3	0.02	49	0.002	<1	0.31	0.048	0.17	<0.1	<0.01	0.9	0.1	<0.05	2	<0.5	<0.2
TK13-378	Rock	0.007	28	3	<0.01	24	0.002	<1	0.34	0.031	0.18	<0.1	0.01	0.7	0.1	<0.05	2	<0.5	<0.2
TK13-379	Rock	0.007	29	2	0.02	19	0.003	<1	0.35	0.024	0.16	<0.1	<0.01	0.6	0.1	<0.05	2	<0.5	<0.2
TK13-380	Rock	0.006	21	2	<0.01	33	0.003	<1	0.25	0.022	0.20	0.1	<0.01	0.6	0.4	<0.05	2	<0.5	<0.2
TK13-381	Rock	0.048	15	10	0.06	45	0.007	<1	0.40	0.004	0.17	0.2	0.01	1.4	0.3	<0.05	4	<0.5	0.6
TK13-382	Rock	0.087	14	15	0.25	38	0.006	<1	0.74	<0.001	0.20	<0.1	0.02	2.1	0.2	0.06	6	<0.5	0.9
TK13-383	Rock	0.039	9	9	0.04	30	0.009	<1	0.34	0.003	0.16	0.2	0.01	1.2	0.1	<0.05	3	<0.5	0.6
TK13-384	Rock	0.033	15	12	0.06	75	0.004	<1	0.35	0.003	0.20	<0.1	<0.01	0.9	0.1	<0.05	2	<0.5	0.4
TK13-385	Rock	0.098	19	47	0.27	65	0.010	<1	0.98	0.033	0.19	<0.1	<0.01	3.1	0.2	0.19	7	<0.5	0.3
TK13-386	Rock	0.030	39	3	0.02	60	0.004	<1	0.23	0.022	0.19	<0.1	0.03	0.8	0.2	0.06	2	<0.5	0.3
TK13-387	Rock	0.033	70	2	0.04	69	0.003	<1	0.40	0.018	0.25	<0.1	0.02	0.9	0.2	0.07	3	<0.5	<0.2

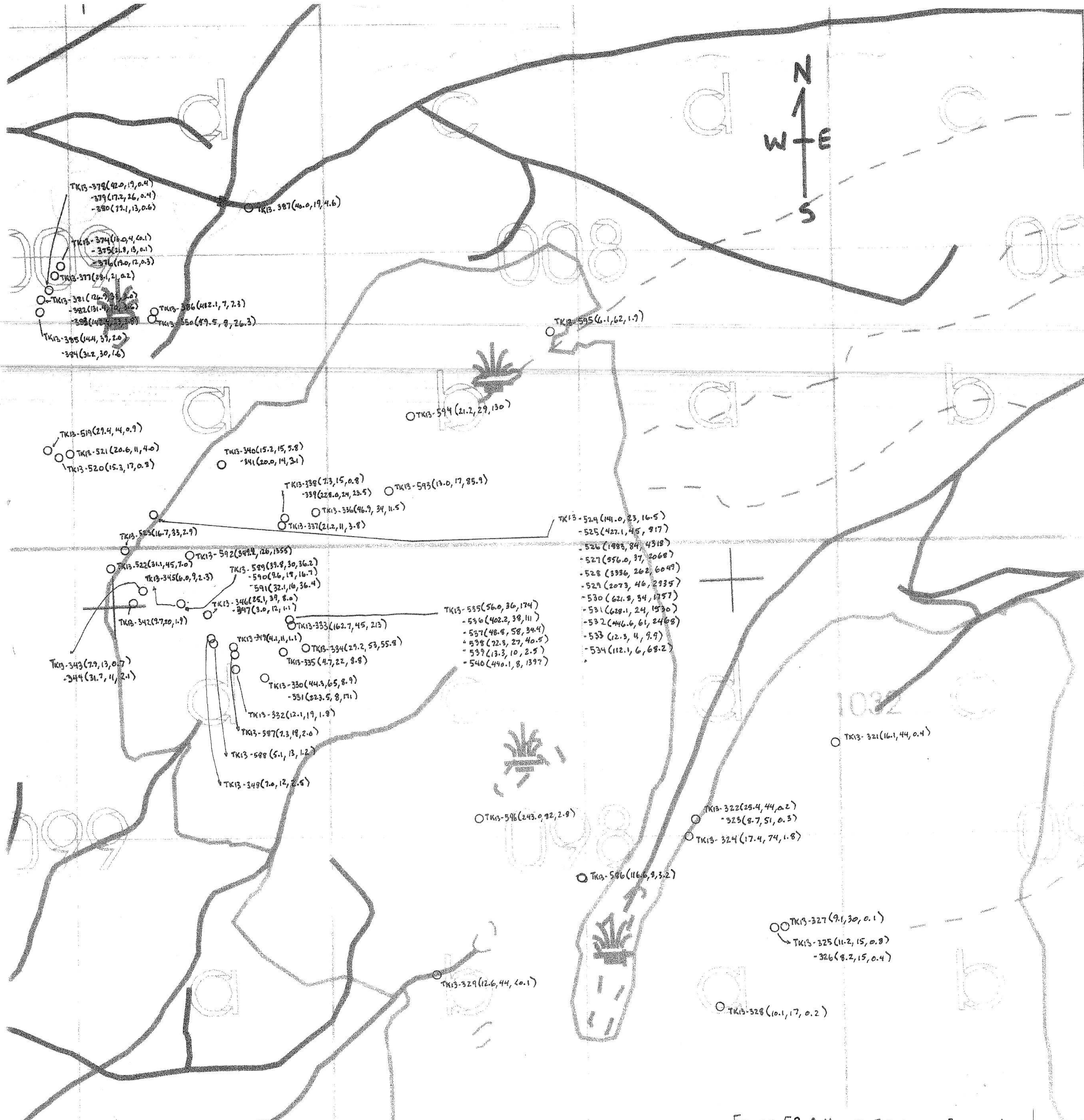


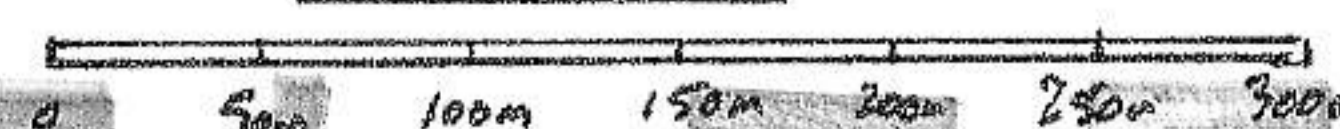
FIGURE 5B : VALUES FOR LEAD, ZINC and SILVER

LEGEND

OTK13-X - SAMPLE No. and LOCATION
 (Pb (PPM), Zn (PPM), Ag (PPM))

GEOLOGICAL SURVEY BRANCH
 ASSESSMENT REPORT

SCALE 1:5,000



34,351

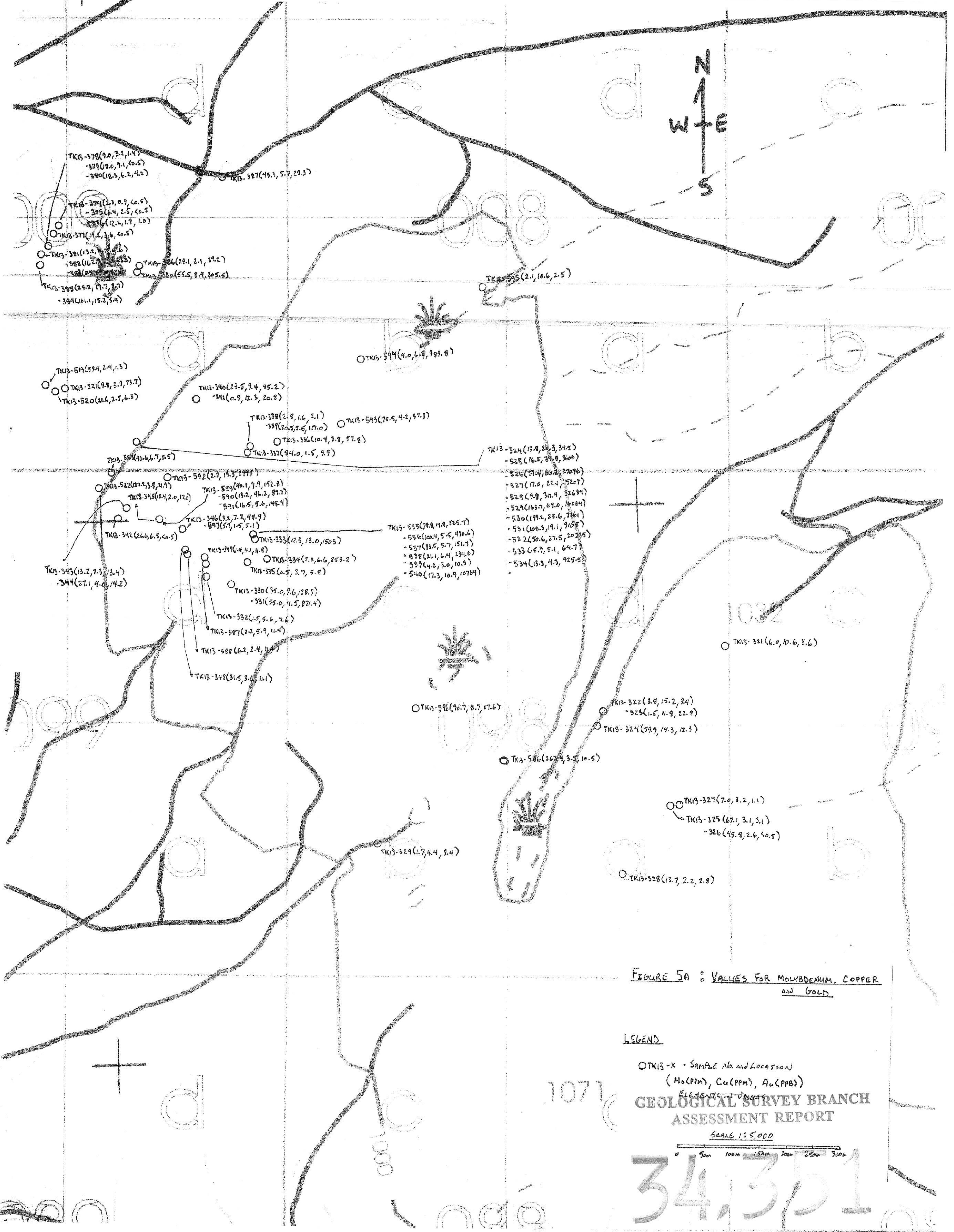


FIGURE 5A : VALUES FOR MOLYBDENUM, COPPER
and GOLD

LEGEND

OTK13-X - SAMPLE No. and LOCATION
(Mo(ppm), Cu(ppm), Au(ppb))

ELEMENTS AND VALUES
GEOLOGICAL SURVEY BRANCH
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0 50m 100m 150m 200m 250m 300m

34.3/1