

**Report on Rock Geo-Chemistry
For**

**The Alco-Silver Lake Property
Summer and Fall of 2013
Event Number**

**By
Tom Kennedy**

**BC Geological Survey
Assessment Report
34508**

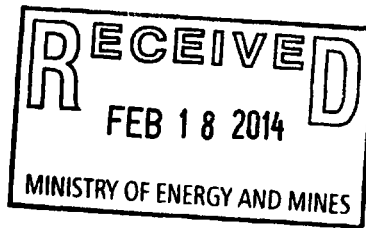
Omineca Mining Division

**NTS
93F084 and 93F085
UTM Co-Ordinates:
353935E, 5966813N Zone 10 N**

February 2014

34,508

**GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORT**



Ministry of Energy and Mines
BC Geological Survey

Assessment Report
Title Page and Summary

TYPE OF REPORT [type of survey(s)]: Rock Geo-chemistry

TOTAL COST: \$2765.53

AUTHOR(S): Tom Kennedy

SIGNATURE(S): *Tom Kennedy*

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S):

YEAR OF WORK: 2013

STATEMENT OF WORK - CASH PAYMENTS EVENT NUMBER(S)/DATE(S): Event Number 5487942

PROPERTY NAME: Alco-Silver Lake

CLAIM NAME(S) (on which the work was done): 756102,774702,832013,843281,896418

COMMODITIES SOUGHT: Gold, Silver

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN:

MINING DIVISION: Omenica

NTS/BCGS: 093F084,093F085

LATITUDE: 53 ° 50 '42 " LONGITUDE: 125 ° 14 '16 " (at centre of work)

OWNER(S):

1) Dedra Critchlow

2) Kootenay Resources Inc.,

Darlene Lavoie

MAILING ADDRESS:

840 Olsen Rd Box 1405 Kaslo B.C. Canada V0G 1M0

2290 DeWolfe Ave. Kimberley B.C. Canada V1A 1P5

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

1) Kootenay Silver Inc.

2)

MAILING ADDRESS:

Suite 1820-155 W. Hastings St.

Vancouver B.C. V6E 2E9 Canada

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

Eocene Ootsa Lake Felsic Volcanics, Eocene Endako Group mafic volcanic rocks, quartz stockworks anomalous gold, silver copper, molybdenum, float material with gold values

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS: 32330,32585, 33005, 33814

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 82 Multi-element ICP with Au in ppb		756102,774702,832013,843281,896444	\$8,967.34
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:	\$8,967.34

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Program: With values for Molybdenum, Copper
and Gold In Pocket
- Figure 6B Rock Geo-Chemistry Sample Locations Rock Chip
Program: With values for Lead, Zinc, and Silver In Pocket
- Figure 6C Rock Geo-Chemistry Sample Locations Rock Chip
Program: With values for Arsenic, Antimony and
In Pocket

1:00 SUMMARY

This report documents the results of a two phase rock geochemistry program conducted on the Alco-Silver Lake property in the summer and fall of 2013. The rock geochemistry program consisted of a more property scale sampling program coupled with a test rock chip sampling survey in an area of previously identified float material with gold. Both surveys were successful in identifying significant gold values.

2

2.10 Location and Access

The Alco-Silver Lake claim groups are located in the Omenica Mining Division of Central B.C. and are centered roughly at UTM Co-ordinates 353935E, 5966813N (see Figure 1). The claims are located roughly 60km south and east of the town of Burns Lake. Access to the claim group is facilitated by a series of logging haul roads that can be accessed off of the Binta haul road from the west via the community of Southbank and to the east from the community of Fraser Lake.

2.20 Property

The Alco-Silver Lake is composed of 11 mineral tenures that roughly cover an area of 3529.8591Ha (Figure 2). The claim group is owned in part by Dedra Crithclow of Kaslo B.C., Darlene Lavoie of Kimberley B.C., and Kootenay Resources Inc.

2.30 Physiography

The Alco-Silver Lake group covers gently to moderate topography. Elevations on the claims range from 860m to 1400m. Roughly one quarter of the claims are covered by logging of various vintages with an additional quarter of the property covered off by a recent wildfire. In un-logged areas forest cover is dominated by mountain pine beetle killed pine, spruce and balsam. Windfalls are prevalent and traversing tends to be a difficult process. Several swampy areas found with in the claim group and scrub brush and moss dominates the under story.

Out cropping on the property is scarce and is predominately found on topographic highs and along road cuts and may comprise at best 5-10 percent of the property.


2.40 History of Previous Exploration

The only known previous exploration programs conducted on the claim group consists of several prior rock and bio-geochem sampling surveys conducted by Kootenay Silver Inc.(ARISS Reports 32330,32585,33005,33814)

Figure 1: Alco-Sliver Lake Location Map

 **Alco-Sliver Lake Location**

Topographic Layers

-  **Lakes 1:6M**
-  **Rivers 1:6M**

BC Border Layers

-  **BC Border 1:6M**



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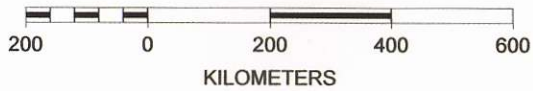
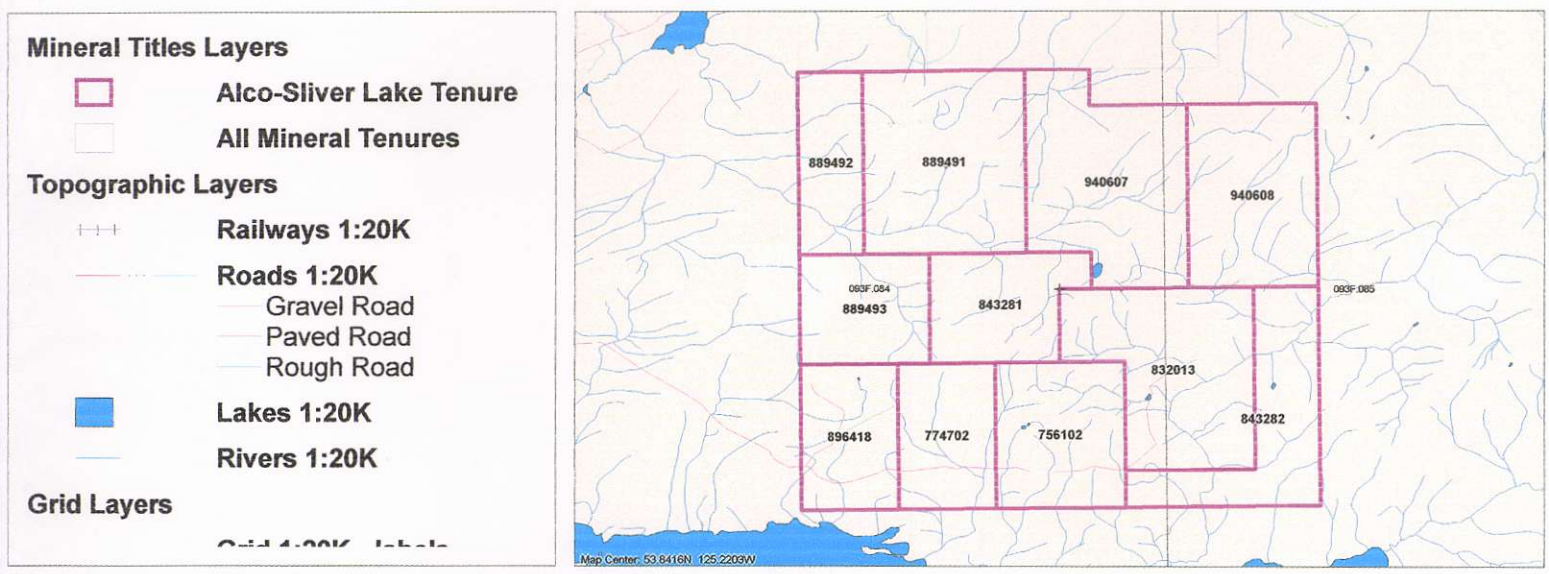


Figure 2: Alco-Sliver Lake Claim Map



SCALE 1 : 95,805

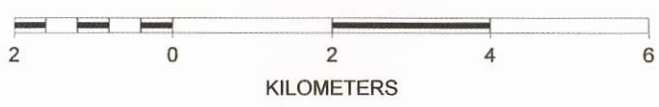
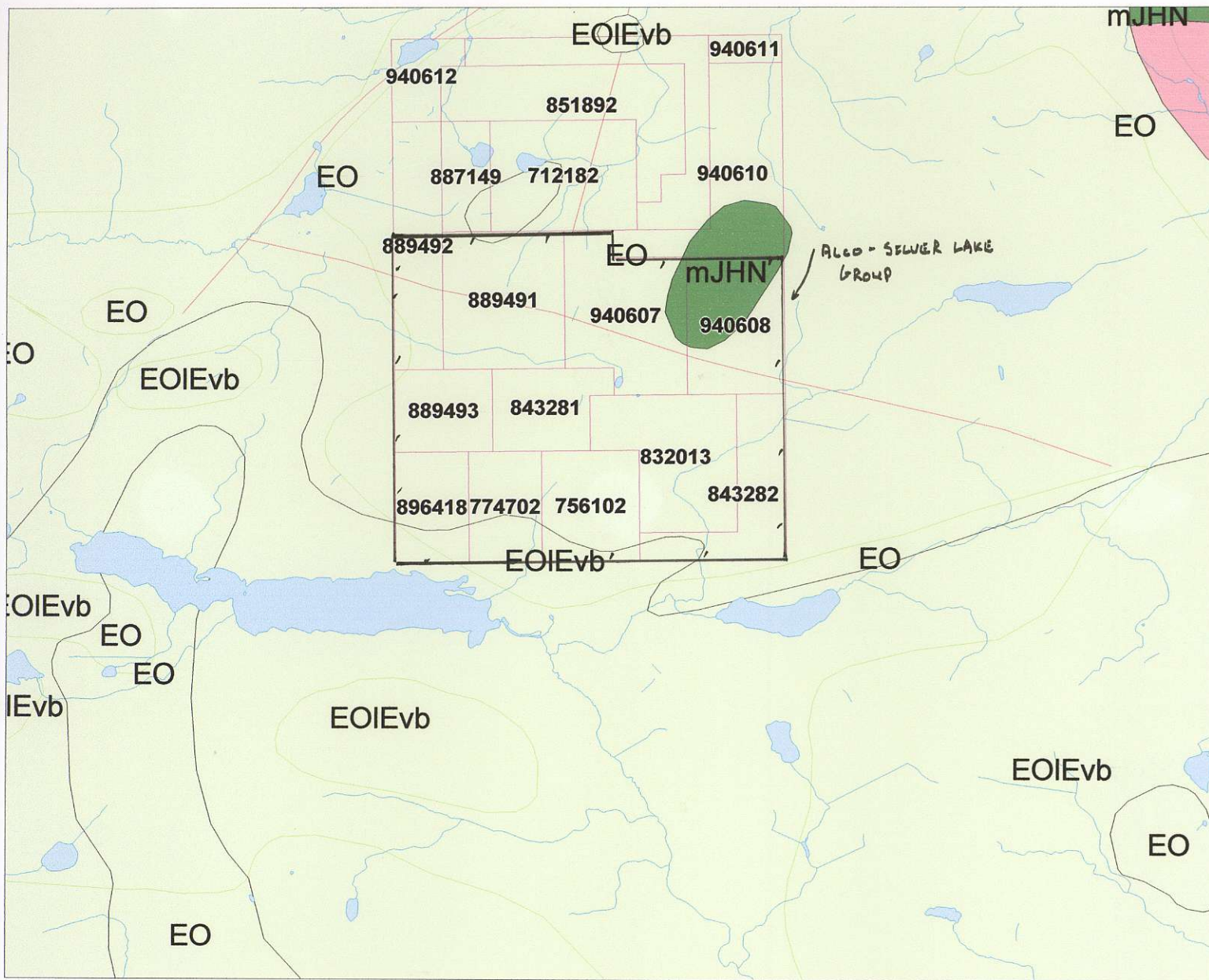
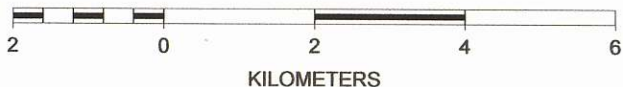


Figure 3: Regional Geology Map Alco claims



SCALE 1 : 100,000



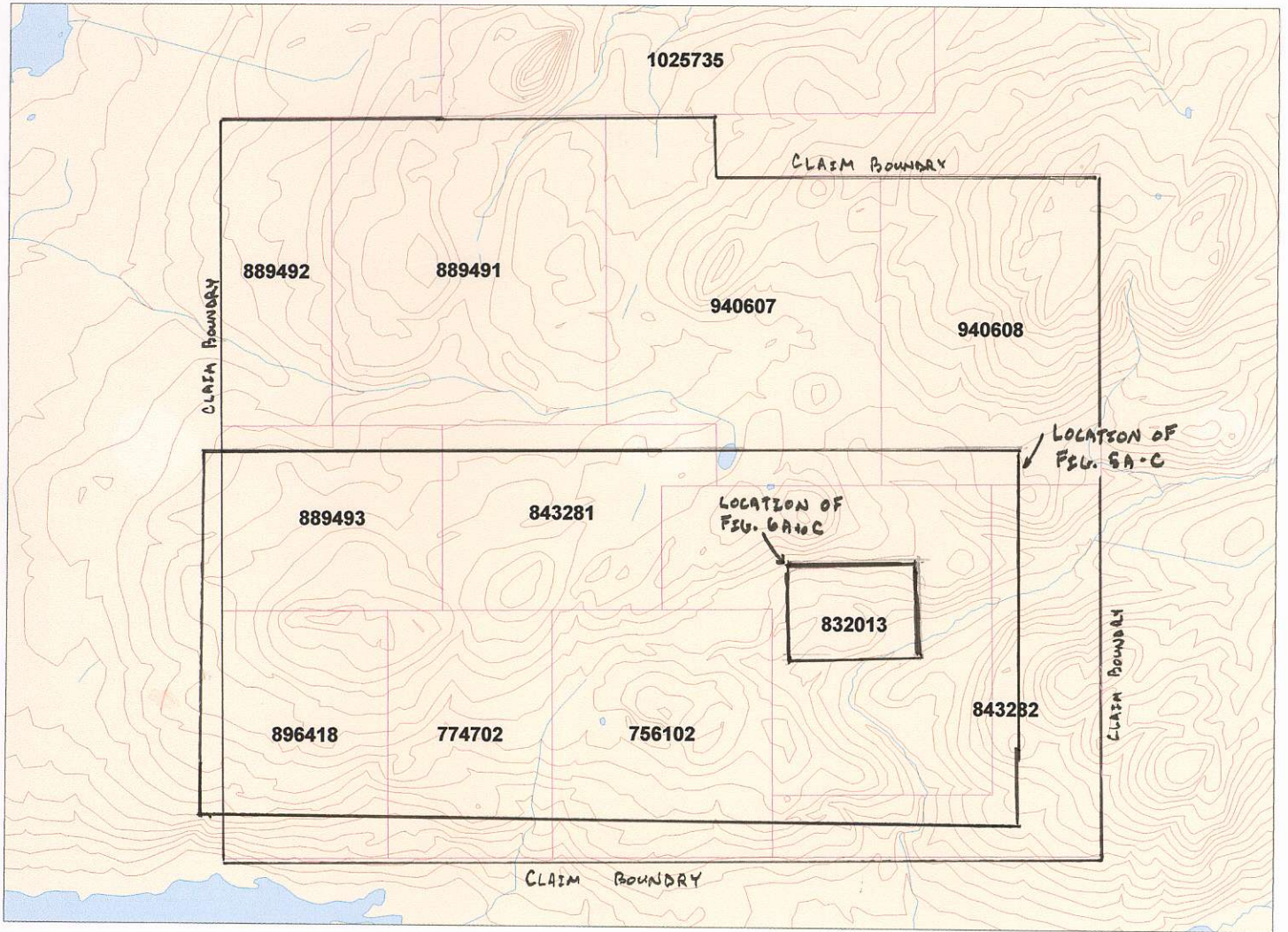
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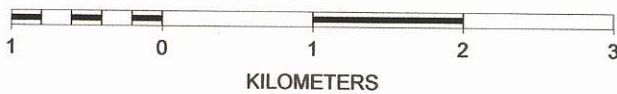
LEGEND

- EOIEvb - EOCENE ENDAKO GROUP VOLCANICS
- EO - EOCENE OOTSA LAKE GROUP VOLCANICS
- mJHN - MIDDLE JURASSIC HAZLETON GROUP

Figure 4. Location for Figures 5, 6



SCALE 1 : 50,000



N



2.50 Purpose of work

The purpose of the 2013 rock geochemistry was to make a property wide pass of sampling focussing on alteration and silicification in the hopes of identifying areas of gold mineralization and metal associations which could help guide in future exploration. A secondary program was conducted within an area of previously identified float material high in gold consisting of rock chip sampling of subcrop to test if the technique would identify gold mineralization and if it would be useful to expand to other areas of the property.

3.00 GEOLOGY

The Alco-Silver Lake claim group covers an area of Eocene aged Ootsa Lake Felsic volcanics and overlying Endako group mafic volcanic rocks (refer to Figure 3). Regional government mapping has identified a prominent NW trending fault cuts through the northern part of the property. A small inlier of basement Jurassic aged Hazleton group rocks occurs in the northeast portion of the claims.

4.00 ROCK GEO-CHEMISTRY RESULTS

4.10 ROCK GEOCHEM PROCEDURE

During the 2013 rock Geochemistry program consisted of two types of surveys; a broader scaled program and a focused rock chip sample program.

The wider scaled survey was carried out across the length of the property in areas of previously identified anomalous gold mineralization with the intent on extending these zones or uncovering new ones, as well as provide more data to help determine if a metal association could be determined to further help in the understanding and targeting mineralized systems on the property. A total of thirty nine samples were gathered from the property wide program. The samples were collected from both float and outcroppings and consisted mainly of grab or composites. Samples were collected with hammers and picks and locations were marked in the

The Rock chip survey was conducted along a road way cutting through an area with high grade gold values in float material. Samples were collected roughly every 20m on either side of the road where bank material was available. Small angular chips were gathered from a 1mx1m area or 2mx2m area where abundance of material dictated. Sample sites were marked in the field with ribbons and GPS locations were taken at each site.

Samples from both surveys were sent to ACME Analytical Laboratories where they were subjected to the Group IDX multi-element assay package with gold given in ppb. Samples with over limits of lead, zine, 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 for the property wide program with values plotted for Molybdenum, Copper and Gold can be found on Figure 5A; Values for Lead, Zinc and Silver on Figure 5; and Values for Arsenic, Antimony on Figures 5(in Pocket). Sample locations and values for the Rock Chip Survey are found on Figures 6A to C with the same elements plotted as for the property wide program.

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

4.21 Property wide survey

Molybdenum:

Levels of molybdenum obtained during the rock sampling program were over all low to moderately elevated. Six samples ran above 5ppm and five of which were over 10ppm. Two samples assayed over 25ppm and represent the program highs of 199.9ppm at TK13-645, and 286.8ppm at TK13-644. The two program highs for molybdenum are also coincident to two of the higher values for gold, but overall molybdenum is not present in the other samples to draw any positive correlation to other elements.

Copper:

Overall low to moderate levels of copper were obtained from the sampling program with sixteen of the thirty nine samples assaying above 20ppm and five over 50ppm. Three samples ran above 100ppm and consist of the program highs at TK13-653(136.7ppm), TK13-652(203.9ppm), and TK13-654(418.3ppm). The program highs for copper are coincident with the program highs for gold, as well as the survey highs for lead and silver.

Lead:

Lead levels in the samples collected were very low with only five samples of the thirty nine collected returning levels above 20ppm and no samples above 50ppm. The three program highs occur at sites TK13-654(35.4ppm), TK13-645(36.7ppm), and TK13-652(39.2ppm). These highs as mentioned above are coincident with the highs of copper and gold, but the levels of lead obtained are too low to draw any strong conclusions as to associations to elevations with other elements.

Zinc:

On the whole zinc levels of the samples assayed are low with 29 samples returning values above 50ppm and three samples above 100ppm and represent the program highs of 100ppm(TK13-608), 105ppm(TK13-601), and 112ppm(TK13-632). These levels of zinc show no correlation to any other elements and appear to represent more of background values for the host volcanic unit.

Silver:

Silver levels obtained during the sampling program were overall only weakly elevated. Of the thirty nine samples collected eight samples ran above 2ppm with only five samples assaying over 5ppm. The program highs were collected at sample sites TK13-650(6.8ppm), TK13-653(7.6ppm), and TK13-654(12.6ppm). The high values for silver are at the same sample sites as program highs for copper, lead and gold.

Gold:

Several samples collected from the program gave anomalous values for gold. Of the 39 samples collected 20 returned values greater than 20ppb with 15 of these over 50ppb and 11 of which ran higher than 100ppm. Nine samples gave values over 500ppb with six over 1000ppb. Program highs were collected at TK13-644(1134ppb), TK13-654(3141ppb), and TK13-653(5050ppb). As noted above several samples containing high values for gold occur with those of copper, lead and silver. Another set of high gold values appear to be related with elevations of molybdenum. Elsewhere elevated values of gold occur with no corresponding elevations for any other elements.

Arsenic:

Overall levels for arsenic in the samples collected are low. Eight samples gave values above 20ppm with only one sample above 50ppm at sample site TK13-633(284.8ppm). These slight elevations occur with some of the program highs for gold but in general arsenic appears to be of minor importance to precious and other mineralization on the property.

Antimony:

Samples collected on the property were in general weakly elevated with 28 of the 39 samples giving results over 2ppm but only 3 of these ran above 5ppm and consist of the program highs of 5.2ppm(TK13-636), 9.8ppm(TK13-654ppm) and 9.9ppm(TK13-633).

4.22 Rock Chip Sample Survey

Molybdenum:

Five samples collected in the rock chip sampling survey yielded values above 5ppm. Two samples ran above 10ppm and consist of the program highs of 16.4ppm(SAK13-227), and 30.2ppm(SAK13-214). The two highest molybdenum values are accompanied by slightly elevated values for gold as well as weakly elevated levels of arsenic.

Copper:

Overall levels of copper contained in the samples collected are low. Thirty six samples gave values above 20ppm, with no samples above 50ppm, and copper values probably reflect the background value of the local volcanic units.

Lead:

Lead values in the sampling conducted are dominantly low. Only two samples ran above 20ppm at stations SAK13-222(27.9ppm), and SAK13-208(366.1ppm). Both of

these elevated sample sites also yielded higher values for gold and silver with the highest for each elements occurring together.

Zinc:

Zinc values obtained from the survey are similar to those of copper and are relatively low. Forty three samples ran above 50ppm with only one sample above 100ppm at sample site SAK13-212. As with copper zinc may represent back ground levels for volcanic host units.

Silver:

Several elevated levels of silver were garnered from the sampling conducted on the Alco property. Seven samples assayed above 1ppm with five of these greater than 2ppmm. Program highs consist of 4.0ppm(SAK13-210), 7.7ppm(SAK13-222), and 28.9ppm(SAK13-208). Highs for silver are coincident with those of lead and gold, with lesser anomalous levels of arsenic.

Arsenic:

Moderately to slightly elevated levels of arsenic occur within the population of samples collected. Seventeen samples returned values over 10ppm with eleven of these above 20ppm, and four over 50ppm. Program highs occur at sites SAK13-230(67.5ppm), SAK13-234(175.4ppm), and SAK13-222(230.9ppm). Arsenic accompanies higher values for gold, though not a directly proportional relationship is obvious. As noted above, lead and silver are also coincidentally elevated in samples with higher levels of arsenic.

Gold:

Gold values obtained in the collected samples are interestingly elevated. Thirteen samples returned levels above 10ppb, with ten of these above 20ppb. Eight samples gave values over 50ppb, and three samples over 100ppb consisting of the program highs at sites SAK13-203(260.0ppb), SAK13-220(333.3ppb), and SAK13-208(6465ppb). As previously noted higher values for gold are accompanied by elevations and highs for lead, silver and to a lesser degree arsenic.

Antimony:

Moderate to lowly elevated levels of antimony were obtained from the sampling. Fourteen samples gave values above 1ppm with five over 2ppm. Survey highs occur at sample sites SAK13-234(2.6ppm), SAK13-208(5.7ppm) and SAK13-223(7.9ppm). Antimony shows a good correlation to elevations for arsenic and to a lesser degree gold.

4.00 CONCLUSIONS AND RECOMMENDATIONS

Both of the surveys conducted on the Alco-Silver Lake group of claims generated significant values for gold. The rock chip survey was successful in roughly duplicating previous anomalous gold results from float sampling. Material in this survey shows a correlation between higher grade samples of gold with elevations of molybdenum and silver. The property wide survey extended the area of known mineralization both to the north and west. The higher values for gold were most closely associated with higher levels of copper and silver with weak levels of antimony. An additional area of mineralization was found in the eastern area of the property close to the mineralized float and was similarly accompanied by higher levels of molybdenum, and may represent in part the source area for the aforementioned material.

An expansion of the rock chip sampling to the north could be implemented to try and determine a cut off to the mineralized float material.

Trenching with additional detailed sampling of known occurrences could also be carried out to determine preferential trends and linkages between zones. This could be coupled with a geophysical survey located on bedrock occurrences to try and extend them under cover and make some interpretation in the third dimension. Geological mapping should also be carried out across the property.

5.00 STATEMENT OF COSTS

Tom Kennedy	4 days@ \$500.00/day(vehicle inclusive)	\$2000.00
Mike Kennedy	1 day @ \$500.00/day(vehicle inclusive)	\$500.00
Sara Kennedy	1 day @ \$250.00/day	\$250.00
Rock Samples	82	\$2671.34
ATV Rental	1 day @ \$150.00/day	\$150.00
Living Out and Accommodations		\$2196.00
Report and Maps		\$1200.00
	<u>TOTAL</u>	<u>\$8967.34</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 Slokan, B.C.
- 2) I have been actively involved in mining and mineral exploration for the past 21 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

Tom Kennedy
Prospector

APPENDIX 1

Rock Geo-chem Sample Descriptions and Co-Ordinates

Sample No.	UTM E	UTM N	Description
SAK13-203	355250	5967043	2m by 2m chips of green altered material
SAK13-204	355256	5967049	Same as above, 10m away
SAK13-205	355265	5967051	Same as above, 10m away
SAK13-206	355278	5967059	Same as above, 10m away
SAK13-207	355290	5967060	Same as above, 10m away
SAK13-208	355299	5967065	Same as above, 10m away
SAK13-209	355310	5967073	Same as above, 10m away
SAK13-210	355323	5967079	Same as above, 15m away
SAK13-211	355349	5967082	Same as above, some py and iron stain
SAK13-212	355350	5967087	Same as 209, 10 from above
SAK13-213	355372	5967101	Same as above
SAK13-214	355386	5967105	Same as above
SAK13-215	355405	5967112	Same as above but 15m from above
SAK13-216	355415	5967121	Same material as above, 10m from above
SAK13-217	355429	5967125	Same as above
SAK13-218	355449	5967136	Same material as above, 20m from above
SAK13-219	355479	5967150	Same as above
SAK13-220	355503	5967157	Same material as above, more color, 25m from above
SAK13-221	355314	5967169	15m from above, same material
SAK13-222	355529	5967171	25m from above
SAK13-223	355362	5967182	50m from above
SAK13-224	355565	5967196	Same material, other side of road
SAK13-225	355349	5967186	Same material, 20m from above
SAK13-226	355521	5967176	Same as above
SAK13-227	355496	5967186	Same as above
SAK13-228	355477	5967155	Same as above
SAK13-229	355449	5967144	30m from above
SAK13-230	355435	5967138	20m from above
SAK13-231	355412	5967128	25m from above
SAK13-232	355400	5967122	15m from above, same material
SAK13-233	355349	5967122	20m from above
SAK13-234	355355	5967099	25m from above, more iron rich material
SAK13-235	355332	5967086	25m from above, more silica
SAK13-236	355311	5967078	Same as above
SAK13-237	355292	5967071	20m from above, more iron staining
SAK13-238	355273	5967063	Same as above but less colored
SAK13-239	355250	5967056	25m from above, same material
SAK13-240	355229	5967044	20m from above
SAK13-241	355205	5967034	25m from above
SAK13-242	355175	5967022	30m from above, more colored
SAK13-243	355189	5967013	Same material, less colored, back on other side of road
SAK13-244	355166	5967001	25m from above
SAK13-245	355147	5966992	Same as above
SAK13-246	355128	5966982	Same as above

Sample No.	UTM E	UTM N	Description
TK13-601	352474	5966673	Subcrop of vesicles volcanic unit with some quartz crystal overprinting thin fracture coatings with rare hematite staining
TK13-602	352418	5966861	Subcrop of vesicles volcanic with some haematitic silica fracturing and stringerlets
TK13-603	352110	5966887	Porphyry unit (maroon feldspars) bleached with thin breccia zones with some secondary opensepace quartz coatings - strikes of 30 and 5 degrees steeply dipping
TK13-604	352070	5966887	Similar material to above with more silica-talus material thin fractures
TK13-605	351990	5966965	Narrow zone of opensepace quartz crystal veining brecciation with some iron staining and bleaching of purple porphyry unit
TK13-606	351909	5966931	Narrow quartz veinlet zone of opensepace quartz crystal veinlets and some limonite staining with bleached alteration of feldspar porphyry host unit -strike 20 degrees dip to NW at 80 degrees
TK13-607	351897	5966944	En-echelon vein system o above shallower dip -80 degrees to NW open space quartz veinlets up to 1cm in width with rare limonite staining
TK13-608	352173	5967160	Pod of similar type material to above with opensepace quartz crystal veining with some live hematite and limonite staining overprinting a hyalocistite like brecciation with bleaching of host maroon feldspar porphyry
TK13-626	351931	5967026	25-5m wide zone of silicification narrow opensepace quartz veinlets in andesite feldspar porphyry with some limonite staining -25 degree strike dip to W at 60 degrees
TK13-629	352267	5967120	Maroon porphyry unit with some bleaching and narrow quartz veinlets with siliceous margins with some limonite and hematite with manganese
TK13-630	352404	5967156	25 degree trending quartz crystal vein breccia with milky white quartz and some iron staining up to a foot wide with cm scale veins
TK13-631	352404	5967156	Same as above zone grab of vein material with some calcite in vugs
TK13-632	354888	5967827	Subcrop of vesicle unit with bleaching alteration and some limonite staining with weak argillic altered look and some thin quartz crystal veinlets and silica fractures
TK13-633	354464	5967836	Subcrop of weakly limonite stained material vesicle with some silica fractures and vugs with quartz crystals
TK13-634	354849	5967956	Feldspar porphyry unit with some iron staining and argillic alteration cut by a 2 inch wide crystalline quartz vein with retrocciation and epithermal quartz over print
TK13-635	354891	5967884	Same area as above- similar material with more drusy silica over printing and filling of retrocciation
TK13-636	354941	5967884	Brecciated feldspar porphyry unit with bleaching and limonite staining with some quartz crystal veining
TK13-637	352294	5967871	Feldspar crystal tuff/porphyry with bleached alteration and retrocciation with quartz crystal veining and limonite staining with yellow oxide
TK13-644	356383	5967965	A foot wide zone of quartz crystal vein breccia with some limonite staining and yellow with reddish oxide hosted in volcanic breccia unit green alteration and some bleaching -30 degree trend dip to NW at 40 degrees -sample is a grab of vein material
TK13-645			Same as Above
TK13-646	353629	5967199	Opaline quartz fractures and infill in andesite volcanic with some iron staining
TK13-647	353570	5967181	Block of veined vesicle volcanic float -milky white opensepace quartz veinlets up to 1cm in width across a foot width
TK13-648	351585	5967305	Thin white opensepace quartz crystal veins in pink vesicle volcanic unit near contact with feldspar porphyry unit -70 degree strike dip to N at 70 degrees
TK13-649	351184	5967272	4-6 inch wide zone of thin quartz crystal veinlets cutting purple porphyry unit - 20 degree trend steep dip
TK13-650	351389	5967486	Thin quartz crystal veinlets in maroon vesicle volcanic unit
TK13-651	352467	5967797	Narrow white milky quartz veining cutting andesite porphyry vesicle unit -40 degree trend
TK13-652	352533	5967790	Cm scale opensepace quartz veinlets with rare pyrite and limonite in veining cutting andesite volcanic unit -10 degree strike
TK13-653	352533	5967790	Same as above- en echelon veining with some pyrite and limonite in quartz crystal infilling
TK13-654	352533	5967790	2-4 inch wide quartz vein material with some limonite staining
TK13-655	352816	5967981	Felsic volcanic breccia with green matrix cement and rare limonite staining with weak silicification
TK13-656	352787	5967970	Same as above with more iron staining
TK13-657	351981	5967276	2-3m wide zone of opensepace quartz brecciation cutting maroon feldspar porphyry unit. Vein matrix breccia quartz crystal infilling and in places sugary textured pink material adularia? Zone strikes 20 degrees dip to E steeply veining up to 6 inches in width -sample is of a 4 inch wide quartz matrix breccia zone within a zone of veining over a foot in width with some manganese and limonite staining -grab
TK13-658	351981	5967276	Same zone as above -sample is of quartz matrix breccia zone across a foot width with some iron staining and manganese
TK13-659	351981	5967276	Same zone as above- sample is of a 2inch wide quartz crystal vein with granular matrix
TK13-660	351981	5967276	Same zone as above- sample is of a 2 inch wide zone of quartz veining with some pyrite in host
TK13-661	351981	5967276	Same zone as above- sample is of a 4 inch wide quartz crystal mass vein with some iron staining
TK13-662	351981	5967276	Same zone as above- sample is of a 2 inch wide quartz crystal vein with some granular sugary material in the vein core
TK13-663	351981	5967276	Same zone as above- sample is of a foot wide zone of quartz breccia with some limonite staining

APPENDIX 2
ASSAY SHEETS



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Project: ALCO
 Report Date: October 18, 2013

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CERTIFICATE OF ANALYSIS

VAN13003956.1

Method	Analyte	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	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
SAK13-203	Rock	0.40	0.6	26.5	4.9	98	0.7	53.1	26.9	915	5.65	8.7	0.5	260.0	1.8	36	<0.1	0.5	<0.1	104	0.78
SAK13-204	Rock	0.50	0.6	25.3	7.1	80	<0.1	20.4	21.6	951	4.67	2.4	0.8	6.0	3.9	42	<0.1	0.5	0.1	110	0.48
SAK13-205	Rock	0.50	1.6	26.8	6.5	89	0.1	20.1	15.3	865	3.76	4.2	0.7	89.8	3.5	60	<0.1	0.6	<0.1	93	0.48
SAK13-206	Rock	0.62	0.3	29.5	5.3	58	<0.1	9.6	11.5	721	3.26	2.0	0.7	<0.5	3.7	63	0.1	0.3	0.1	80	0.77
SAK13-207	Rock	0.51	0.3	26.3	6.4	77	<0.1	16.3	17.3	680	3.62	2.8	0.9	<0.5	4.5	54	<0.1	0.5	<0.1	85	0.56
SAK13-208	Rock	0.41	7.2	18.9	386.1	77	28.9	3.7	1.9	116	1.12	58.3	0.6	6465	3.9	11	0.5	5.7	0.1	13	0.09
SAK13-209	Rock	0.39	1.1	15.7	6.0	59	<0.1	10.7	10.3	543	3.22	6.9	1.2	6.2	4.1	51	<0.1	0.4	0.2	62	0.41
SAK13-210	Rock	0.48	2.7	26.2	12.1	70	4.0	29.9	12.4	690	4.26	19.1	0.5	55.2	2.5	21	<0.1	1.4	0.2	68	0.39
SAK13-211	Rock	0.36	2.3	37.6	9.6	97	3.1	29.0	17.0	1336	4.32	42.5	0.5	82.8	2.4	20	<0.1	1.7	<0.1	93	0.40
SAK13-212	Rock	0.52	1.0	82.2	6.8	116	0.1	21.7	16.2	876	4.17	10.1	0.8	8.7	2.9	19	0.6	0.8	<0.1	93	0.34
SAK13-213	Rock	0.42	0.2	23.0	6.7	74	<0.1	15.7	16.6	670	4.16	1.5	1.0	1.7	3.6	96	0.1	0.3	<0.1	94	0.70
SAK13-214	Rock	0.46	30.2	21.0	7.7	51	0.9	19.0	13.3	445	3.20	47.1	0.8	19.7	3.1	55	<0.1	1.2	<0.1	62	0.91
SAK13-215	Rock	0.43	5.0	34.8	7.4	82	0.4	42.1	19.1	801	5.54	48.8	2.1	11.7	2.0	23	0.1	1.9	<0.1	96	0.31
SAK13-216	Rock	0.69	2.2	17.4	9.3	46	0.7	14.7	10.0	426	2.43	19.7	0.8	19.8	0.8	45	<0.1	1.2	0.1	45	0.66
SAK13-217	Rock	0.49	0.5	18.0	6.7	82	0.2	18.9	17.5	726	3.52	11.7	0.9	4.5	3.8	85	<0.1	0.8	<0.1	86	0.61
SAK13-218	Rock	0.73	0.3	22.0	7.0	89	<0.1	19.6	18.1	942	4.42	1.9	0.7	<0.5	3.3	36	0.1	0.3	0.1	97	0.47
SAK13-219	Rock	0.31	0.9	25.5	9.2	83	0.2	19.6	17.6	1056	4.17	10.1	1.1	<0.5	3.5	82	0.1	0.6	0.1	85	0.67
SAK13-220	Rock	0.53	1.4	21.0	12.8	66	2.3	16.5	12.7	705	4.34	39.8	0.3	333.3	3.1	81	0.1	1.8	0.2	73	0.58
SAK13-221	Rock	0.44	1.6	21.2	10.8	61	0.2	15.3	12.2	548	2.65	6.4	0.9	<0.5	3.3	25	<0.1	0.4	0.3	40	0.34
SAK13-222	Rock	0.37	5.3	21.8	27.9	82	7.7	16.4	14.8	799	4.51	230.9	0.7	79.8	3.1	40	0.1	7.9	0.1	69	0.38
SAK13-223	Rock	0.64	0.3	22.6	8.5	76	<0.1	19.3	21.0	969	4.51	1.8	0.9	<0.5	3.7	45	0.1	0.4	<0.1	107	0.58
SAK13-224	Rock	0.38	2.7	23.5	7.7	68	<0.1	18.3	18.5	1050	4.80	7.9	0.9	<0.5	4.6	80	<0.1	0.6	0.1	95	0.68
SAK13-225	Rock	0.52	0.3	21.0	7.8	77	<0.1	17.0	15.3	749	3.55	2.3	1.1	<0.5	3.4	45	0.2	0.3	0.1	87	0.61
SAK13-226	Rock	0.57	0.5	20.4	8.9	71	<0.1	25.1	18.7	649	3.81	1.6	0.7	<0.5	2.7	26	<0.1	0.4	0.1	66	0.36
SAK13-227	Rock	0.64	16.4	26.6	19.2	81	1.7	40.6	20.8	875	4.30	22.4	0.6	72.1	2.3	46	<0.1	1.0	<0.1	78	0.58
SAK13-228	Rock	0.58	0.3	23.9	8.3	67	<0.1	19.2	16.1	596	3.88	2.6	1.0	0.7	3.0	77	<0.1	0.4	0.1	76	0.76
SAK13-229	Rock	0.51	1.0	19.7	5.7	73	<0.1	28.6	17.8	876	4.55	3.3	0.6	2.3	2.7	73	<0.1	0.3	<0.1	95	0.61
SAK13-230	Rock	0.69	0.7	34.7	9.0	80	0.1	22.8	18.5	1036	5.75	67.5	0.8	<0.5	3.4	88	0.1	2.5	0.1	90	0.74
SAK13-231	Rock	0.76	0.4	20.2	6.9	68	<0.1	13.7	13.1	616	3.36	2.7	0.8	0.6	3.0	106	<0.1	0.5	<0.1	65	0.69
SAK13-232	Rock	0.67	0.6	25.8	6.8	93	0.2	28.7	21.3	1002	4.47	8.0	0.9	6.8	3.1	54	<0.1	0.7	0.1	84	0.74

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Project: ALCO
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CERTIFICATE OF ANALYSIS

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Method	Analyte	1DX30	1DX30	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	
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.01	0.05	1	0.5	0.2		
SAK13-203	Rock	0.135	26	63	1.03	79	0.050	1	2.53	0.019	0.16	<0.1	0.03	5.5	<0.1	<0.05	12	<0.5	<0.2	
SAK13-204	Rock	0.131	24	30	1.06	141	0.046	<1	2.54	0.045	0.15	<0.1	0.02	7.2	<0.1	<0.05	10	<0.5	<0.2	
SAK13-205	Rock	0.136	23	39	0.93	144	0.017	<1	2.09	0.039	0.16	<0.1	0.05	6.5	<0.1	<0.05	9	<0.5	<0.2	
SAK13-206	Rock	0.115	21	16	0.83	190	0.019	2	1.76	0.044	0.12	<0.1	0.14	6.5	<0.1	<0.05	8	<0.5	<0.2	
SAK13-207	Rock	0.126	26	25	0.86	142	0.036	<1	2.14	0.042	0.15	<0.1	0.09	6.8	<0.1	<0.05	9	<0.5	<0.2	
SAK13-208	Rock	0.045	21	8	0.10	43	0.002	<1	0.42	0.013	0.19	<0.1	0.17	1.1	<0.1	0.07	2	<0.5	<0.2	
SAK13-209	Rock	0.117	21	18	0.86	121	0.046	<1	1.66	0.049	0.19	<0.1	0.02	3.8	<0.1	0.27	7	<0.5	<0.2	
SAK13-210	Rock	0.166	24	69	0.47	114	0.003	<1	1.66	0.010	0.23	<0.1	0.06	4.9	<0.1	<0.05	8	<0.5	<0.2	
SAK13-211	Rock	0.203	22	67	0.71	96	0.008	<1	1.81	0.016	0.23	<0.1	0.08	5.4	<0.1	<0.05	9	<0.5	<0.2	
SAK13-212	Rock	0.152	24	32	0.84	121	0.027	<1	2.20	0.029	0.24	0.2	0.03	5.4	<0.1	<0.05	9	<0.5	<0.2	
SAK13-213	Rock	0.119	23	26	1.00	188	0.075	<1	2.59	0.057	0.19	<0.1	<0.01	6.9	<0.1	<0.05	10	<0.5	<0.2	
SAK13-214	Rock	0.102	20	27	0.61	124	0.032	<1	1.83	0.032	0.21	<0.1	0.31	5.0	0.3	0.06	6	<0.5	<0.2	
SAK13-215	Rock	0.141	19	55	0.79	143	0.006	<1	2.31	0.015	0.18	0.1	0.08	5.2	<0.1	<0.05	10	<0.5	<0.2	
SAK13-216	Rock	0.096	27	26	0.51	86	0.004	<1	1.20	0.017	0.17	<0.1	0.05	3.2	<0.1	<0.05	5	<0.5	<0.2	
SAK13-217	Rock	0.147	23	39	0.95	192	0.061	<1	2.43	0.045	0.23	<0.1	0.04	6.7	<0.1	<0.05	9	<0.5	<0.2	
SAK13-218	Rock	0.151	24	36	1.09	166	0.034	<1	2.56	0.038	0.16	<0.1	0.02	6.4	<0.1	<0.05	10	<0.5	<0.2	
SAK13-219	Rock	0.151	30	33	0.86	231	0.088	<1	2.37	0.041	0.21	<0.1	0.03	6.4	<0.1	<0.05	9	<0.5	<0.2	
SAK13-220	Rock	0.162	28	37	0.82	229	0.044	<1	2.14	0.028	0.22	<0.1	0.11	5.6	0.1	<0.05	8	<0.5	<0.2	
SAK13-221	Rock	0.125	15	14	0.81	139	0.004	<1	1.65	0.013	0.24	<0.1	0.01	2.9	<0.1	<0.05	6	<0.5	<0.2	
SAK13-222	Rock	0.115	26	24	0.71	176	0.049	<1	2.01	0.026	0.18	<0.1	0.23	5.6	<0.1	<0.05	0	<0.5	<0.2	
SAK13-223	Rock	0.129	36	24	1.21	192	0.015	<1	2.52	0.037	0.14	<0.1	0.02	7.3	<0.1	<0.05	10	<0.5	<0.2	
SAK13-224	Rock	0.125	29	20	0.91	228	0.045	<1	2.48	0.048	0.17	<0.1	0.02	6.9	<0.1	<0.05	11	<0.5	<0.2	
SAK13-225	Rock	0.141	27	39	0.94	135	0.108	1	1.98	0.041	0.18	<0.1	<0.01	7.0	<0.1	<0.05	8	<0.5	<0.2	
SAK13-226	Rock	0.115	25	25	0.84	152	0.012	<1	2.01	0.028	0.18	<0.1	<0.01	4.7	<0.1	<0.05	8	<0.5	<0.2	
SAK13-227	Rock	0.183	31	62	0.80	138	0.005	<1	1.98	0.022	0.20	<0.1	0.06	4.3	<0.1	0.13	8	<0.5	<0.2	
SAK13-228	Rock	0.116	24	21	0.85	167	0.062	1	2.37	0.049	0.29	0.1	<0.01	6.1	<0.1	<0.05	8	<0.5	<0.2	
SAK13-229	Rock	0.143	26	40	1.08	151	0.023	<1	2.53	0.029	0.19	<0.1	0.02	6.4	<0.1	<0.05	9	<0.5	<0.2	
SAK13-230	Rock	0.162	28	31	1.05	169	0.051	<1	2.73	0.041	0.18	0.1	0.03	6.7	<0.1	0.21	10	<0.5	<0.2	
SAK13-231	Rock	0.116	25	16	0.82	161	0.093	<1	2.33	0.044	0.26	<0.1	<0.01	5.3	<0.1	<0.05	8	<0.5	<0.2	
SAK13-232	Rock	0.207	26	40	1.05	155	0.055	<1	2.43	0.031	0.18	0.1	0.03	6.7	<0.1	<0.05	9	<0.5	<0.2	

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CERTIFICATE OF ANALYSIS

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Method	Analyte	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
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
SAK13-233	Rock	0.61	0.9	25.5	6.0	77	0.1	19.7	18.0	819	4.24	2.9	0.9	0.8	3.1	100	<0.1	0.4	0.1	93	0.96
SAK13-234	Rock	0.30	3.4	25.1	7.5	84	1.3	21.7	6.2	547	5.17	175.4	0.1	28.1	0.8	20	<0.1	2.8	<0.1	88	0.24
SAK13-235	Rock	0.56	0.3	18.9	7.1	69	<0.1	18.4	18.0	983	4.18	2.5	0.8	0.8	4.2	44	<0.1	0.4	0.2	79	0.49
SAK13-236	Rock	0.57	0.3	32.8	5.8	59	<0.1	13.7	12.8	884	3.00	1.0	0.9	<0.5	4.0	30	<0.1	0.4	0.1	75	0.53
SAK13-237	Rock	0.47	1.1	18.6	5.8	60	0.2	30.9	17.4	678	3.52	12.1	0.7	<0.5	3.1	58	<0.1	0.6	<0.1	87	0.57
SAK13-238	Rock	0.76	0.6	20.9	7.7	69	<0.1	12.2	18.0	896	3.87	2.6	0.9	3.3	4.6	40	<0.1	0.6	0.2	106	0.42
SAK13-239	Rock	0.59	0.6	21.1	7.1	59	<0.1	11.2	16.3	628	3.34	2.9	0.9	3.6	4.6	62	0.1	0.4	0.2	78	0.51
SAK13-240	Rock	0.78	0.5	27.6	7.8	75	0.5	24.6	22.3	941	4.51	20.5	0.8	26.4	3.3	49	<0.1	1.2	0.1	94	0.55
SAK13-241	Rock	0.43	1.5	25.8	7.5	67	<0.1	21.4	16.1	646	3.73	2.4	0.8	0.9	4.0	53	<0.1	0.7	<0.1	90	0.49
SAK13-242	Rock	0.39	0.5	11.6	6.5	89	<0.1	17.5	18.2	1006	4.04	0.6	0.8	<0.5	3.2	46	0.2	0.2	0.1	97	0.61
SAK13-243	Rock	0.43	0.3	25.1	7.1	68	<0.1	14.0	15.5	750	3.75	2.6	1.1	2.1	4.0	92	<0.1	0.3	0.1	85	0.65
SAK13-244	Rock	0.47	0.2	23.4	7.9	73	<0.1	15.3	19.1	809	3.66	1.4	1.0	1.5	4.4	39	<0.1	0.5	0.1	83	0.44
SAK13-245	Rock	0.49	0.3	26.7	7.3	65	0.4	17.0	15.4	641	3.46	23.2	0.9	9.5	3.7	48	<0.1	1.3	0.1	81	0.67
SAK13-246	Rock	0.47	1.8	37.4	8.5	79	<0.1	26.6	20.8	787	4.06	3.5	1.3	2.6	8.3	55	<0.1	2.0	8.3	89	0.62

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Method	Analyte	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
		P	La	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te	
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
SAK13-233	Rock	0.147	27	27	1.06	166	0.023	1	2.54	0.042	0.21	<0.1	0.02	6.4	<0.1	<0.05	10	<0.5	<0.2	
SAK13-234	Rock	0.295	20	91	0.33	101	0.002	1	1.16	0.015	0.21	<0.1	0.33	4.3	<0.1	0.15	8	<0.5	<0.2	
SAK13-235	Rock	0.113	23	21	0.92	142	0.048	<1	2.34	0.034	0.16	<0.1	0.01	6.0	<0.1	<0.05	9	<0.5	0.2	
SAK13-236	Rock	0.124	24	26	0.78	128	0.006	<1	1.83	0.046	0.17	<0.1	0.03	6.1	<0.1	<0.05	7	<0.5	<0.2	
SAK13-237	Rock	0.186	25	64	1.05	136	0.017	1	2.11	0.038	0.22	<0.1	0.03	5.5	<0.1	<0.05	8	<0.5	<0.2	
SAK13-238	Rock	0.117	25	22	0.87	151	0.006	2	2.15	0.056	0.13	<0.1	0.02	7.5	<0.1	<0.05	9	<0.5	<0.2	
SAK13-239	Rock	0.109	25	16	0.81	136	0.015	<1	2.08	0.062	0.18	<0.1	0.04	5.5	<0.1	<0.05	8	<0.5	<0.2	
SAK13-240	Rock	0.158	26	42	0.91	135	0.052	<1	2.38	0.038	0.19	<0.1	0.06	6.1	<0.1	<0.05	10	<0.5	<0.2	
SAK13-241	Rock	0.128	26	26	0.84	232	0.032	<1	2.13	0.049	0.18	<0.1	0.02	5.7	<0.1	<0.05	8	<0.5	<0.2	
SAK13-242	Rock	0.203	24	38	0.98	132	0.077	<1	2.37	0.062	0.20	<0.1	<0.01	6.0	<0.1	<0.05	10	<0.5	<0.2	
SAK13-243	Rock	0.149	24	23	0.94	204	0.078	2	2.49	0.059	0.23	<0.1	0.02	6.6	<0.1	<0.05	9	<0.5	<0.2	
SAK13-244	Rock	0.123	23	24	1.00	171	0.025	<1	2.28	0.048	0.15	<0.1	<0.01	6.3	<0.1	<0.05	8	<0.5	<0.2	
SAK13-245	Rock	0.146	26	31	0.75	132	0.033	2	1.83	0.057	0.19	<0.1	0.06	6.1	<0.1	<0.05	8	<0.5	<0.2	
SAK13-246	Rock	0.146	27	29	0.91	152	0.024	<1	2.19	0.043	0.19	<0.1	0.01	6.5	<0.1	<0.05	9	<0.5	<0.2	

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Project: ALCO
 Report Date: September 24, 2013

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

VAN13003567.1

Method	Analyte	WGHT	1DX30																		
			Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
TK13-601	Rock	0.32	0.9	40.0	9.5	105	<0.1	33.6	14.8	605	4.57	8.3	1.3	3.5	3.7	42	<0.1	7.4	<0.1	180	1.04
TK13-602	Rock	0.36	1.0	48.1	8.2	88	<0.1	34.0	15.6	805	3.80	6.3	1.2	<0.5	3.1	78	0.1	1.7	<0.1	135	1.06
TK13-603	Rock	0.69	1.0	3.8	19.5	63	<0.1	1.2	5.0	725	2.27	3.3	1.0	6.7	4.6	37	0.1	2.5	<0.1	29	0.44
TK13-604	Rock	0.52	0.6	2.9	8.9	74	<0.1	1.0	4.3	555	2.44	4.6	1.0	<0.5	3.7	52	<0.1	3.1	<0.1	34	0.34
TK13-605	Rock	0.77	0.5	4.1	9.0	82	0.2	0.8	4.7	708	2.27	4.2	0.9	5.6	3.4	29	0.2	2.7	<0.1	35	0.37
TK13-606	Rock	0.51	0.9	3.2	7.2	70	0.4	0.9	4.0	609	2.35	3.1	1.1	13.5	4.1	69	<0.1	2.6	<0.1	38	0.47
TK13-607	Rock	0.58	0.6	4.0	9.3	76	0.5	0.7	5.7	509	2.04	22.6	1.1	84.8	3.7	25	0.1	3.2	<0.1	37	0.35
TK13-608	Rock	0.54	1.2	6.2	11.5	100	0.3	1.8	44.3	1766	2.45	10.5	1.4	32.6	4.4	42	0.4	3.3	<0.1	29	0.43

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Part: 2 of 2

CERTIFICATE OF ANALYSIS

VAN13003567.1

Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte	P	La	Cr	Mg	Ba	Tl	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
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	
TK13-601	Rock	0.173	37	62	0.97	124	0.382	<1	1.86	0.137	0.19	1.2	<0.01	11.2	<0.1	<0.05	9	<0.5	<0.2
TK13-602	Rock	0.163	34	60	1.23	134	0.326	<1	1.88	0.086	0.13	0.3	<0.01	8.3	<0.1	<0.05	8	<0.5	<0.2
TK13-603	Rock	0.079	34	3	0.23	147	0.051	<1	0.90	0.035	0.12	<0.1	0.01	4.0	<0.1	<0.05	4	<0.5	<0.2
TK13-604	Rock	0.106	36	2	0.32	85	0.075	<1	1.09	0.053	0.15	<0.1	<0.01	4.6	<0.1	<0.05	7	<0.5	<0.2
TK13-605	Rock	0.095	39	4	0.32	138	0.103	<1	0.87	0.038	0.27	0.1	<0.01	5.1	<0.1	<0.05	6	<0.5	<0.2
TK13-606	Rock	0.095	35	2	0.45	138	0.144	<1	1.13	0.038	0.24	0.2	0.02	5.5	<0.1	<0.05	6	<0.5	<0.2
TK13-607	Rock	0.087	33	4	0.44	64	0.118	<1	0.84	0.031	0.21	0.2	0.01	5.8	<0.1	<0.05	5	<0.5	<0.2
TK13-608	Rock	0.075	35	5	0.51	197	0.067	<1	1.08	0.038	0.19	0.1	0.01	5.4	<0.1	<0.05	7	<0.5	<0.2

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Project: ALCO
Report Date: October 08, 2013

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

VAN13003886.1

Method	WGHT	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01	
TK13-628	Rock	0.70	0.6	3.7	7.8	72	0.8	1.0	3.1	368	2.14	13.2	1.0	34.4	4.1	24	<0.1	2.2	<0.1	38	0.40
TK13-629	Rock	0.96	0.5	3.8	7.1	66	0.1	0.9	3.9	543	2.42	2.2	1.3	2.2	4.5	23	<0.1	1.9	<0.1	35	0.36
TK13-630	Rock	0.87	1.0	21.9	7.9	85	0.6	21.9	9.4	738	2.92	20.2	0.7	5.0	3.3	45	0.2	3.2	<0.1	96	1.01
TK13-631	Rock	0.73	0.7	29.3	6.9	73	0.6	24.0	9.9	547	2.81	23.9	0.5	3.3	2.3	43	0.1	3.3	<0.1	82	0.98
TK13-632	Rock	0.29	3.6	23.8	4.7	112	<0.1	43.2	18.2	501	3.87	6.7	0.9	0.7	2.9	46	<0.1	1.4	<0.1	124	0.73
TK13-633	Rock	0.60	11.6	20.6	7.5	74	0.2	18.7	8.6	339	3.48	284.8	0.5	19.0	3.2	20	<0.1	9.9	<0.1	86	0.37
TK13-634	Rock	0.53	23.7	73.4	5.8	14	0.4	2.8	3.6	301	1.34	32.0	0.5	5.0	0.5	8	<0.1	1.8	<0.1	20	0.15
TK13-635	Rock	0.58	6.9	26.6	5.9	36	0.3	6.2	11.1	792	2.47	35.6	0.7	4.8	1.0	7	<0.1	1.4	<0.1	45	0.16
TK13-636	Rock	0.44	3.5	21.4	8.0	39	<0.1	2.0	1.9	160	5.23	18.3	1.4	1.5	4.6	55	<0.1	5.2	<0.1	79	0.13
TK13-637	Rock	0.53	0.6	2.2	6.3	72	0.5	0.7	3.4	405	2.43	5.3	1.3	54.6	4.8	18	<0.1	4.7	<0.1	40	0.33
TK13-644	Rock	0.73	286.8	8.5	24.9	4	8.7	1.2	0.3	41	0.97	6.5	0.1	1134	0.2	10	<0.1	2.1	<0.1	4	0.03
TK13-645	Rock	0.60	199.9	28.2	36.7	8	4.3	0.5	0.8	52	1.76	18.2	0.6	820.9	0.5	11	<0.1	2.2	<0.1	6	0.10
TK13-646	Rock	0.55	23.7	21.7	6.5	71	<0.1	33.3	17.6	487	3.66	29.4	0.5	4.0	3.4	51	0.2	1.9	0.1	116	0.88
TK13-647	Rock	0.80	0.8	14.6	4.1	64	<0.1	15.2	8.3	758	2.32	16.6	0.5	20.1	1.5	26	0.2	3.2	<0.1	56	0.35
TK13-648	Rock	0.49	0.3	25.7	9.2	67	0.5	13.8	7.6	480	2.47	7.4	1.1	64.8	2.5	40	0.2	3.7	0.6	42	0.72
TK13-649	Rock	0.64	1.5	7.8	10.6	70	0.3	0.7	10.9	922	2.49	5.7	0.9	13.2	2.3	98	<0.1	2.8	0.1	45	0.68
TK13-650	Rock	0.55	0.3	59.3	10.6	81	6.8	19.9	11.6	784	3.02	19.2	1.4	1356	2.5	15	0.1	4.5	<0.1	76	0.62
TK13-651	Rock	0.69	0.5	16.3	5.2	52	2.0	37.1	13.2	380	2.98	43.7	0.3	1128	1.2	65	<0.1	3.4	<0.1	95	0.74
TK13-652	Rock	0.64	0.6	203.9	39.2	84	7.6	42.8	15.8	791	3.39	12.7	0.6	1033	1.6	21	<0.1	3.8	<0.1	86	0.93
TK13-653	Rock	0.63	0.7	136.7	25.7	85	6.3	39.3	14.9	693	3.23	12.7	0.5	5050	1.4	37	<0.1	3.3	<0.1	85	0.76
TK13-654	Rock	0.47	0.3	418.3	35.4	72	12.6	38.0	12.6	661	2.32	11.2	0.2	3141	0.7	22	0.1	9.8	<0.1	35	1.15
TK13-655	Rock	0.77	0.4	12.2	9.7	64	0.1	1.0	1.4	632	1.86	2.2	1.5	11.7	10.8	11	<0.1	1.1	<0.1	8	0.13
TK13-656	Rock	0.59	0.3	3.8	12.6	69	0.2	1.0	1.6	572	2.13	6.6	1.4	<0.5	11.1	11	0.1	1.3	<0.1	9	0.13
TK13-657	Rock	0.71	0.6	2.7	7.5	57	0.5	0.7	2.6	403	1.84	3.4	0.7	79.6	2.5	36	0.1	1.8	<0.1	31	0.37
TK13-658	Rock	0.64	0.5	3.7	5.0	45	0.7	0.9	2.3	378	1.48	5.7	0.7	47.2	2.5	20	<0.1	1.8	<0.1	25	0.21
TK13-659	Rock	0.58	0.3	2.4	4.6	31	0.5	0.8	1.6	259	1.24	2.5	0.6	571.1	2.0	38	<0.1	1.6	<0.1	24	0.26
TK13-660	Rock	1.23	0.5	6.6	10.3	48	0.1	1.1	2.9	502	2.06	11.5	0.7	29.8	2.7	22	<0.1	3.7	<0.1	32	0.33
TK13-661	Rock	0.79	0.4	3.9	3.8	28	0.5	1.6	1.7	333	1.86	4.4	0.5	276.4	1.5	9	<0.1	2.1	<0.1	20	0.17
TK13-662	Rock	0.63	0.4	4.2	5.6	52	4.0	0.9	2.4	444	1.77	4.9	0.7	914.3	2.0	23	<0.1	2.3	<0.1	28	0.30
TK13-663	Rock	0.72	0.8	9.5	7.7	56	0.5	0.9	2.7	364	1.98	4.4	0.8	144.7	2.8	32	0.1	2.6	<0.1	33	0.36

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Project: ALCO
 Report Date: October 08, 2013

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Part: 2 of 2

CERTIFICATE OF ANALYSIS

VAN13003886.1

Method	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	1DX30	
Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
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	
TK13-628	Rock	0.077	32	2	0.60	77	0.136	<1	1.02	0.037	0.25	0.2	0.03	4.6	0.1	<0.05	6	<0.5	<0.2
TK13-629	Rock	0.088	40	3	0.37	93	0.047	<1	0.93	0.031	0.17	<0.1	0.02	4.0	<0.1	<0.05	6	<0.5	<0.2
TK13-630	Rock	0.168	30	57	0.57	84	0.189	<1	1.08	0.083	0.14	0.3	0.01	8.3	<0.1	<0.05	5	<0.5	<0.2
TK13-631	Rock	0.157	28	50	0.80	76	0.164	<1	1.16	0.054	0.08	0.4	0.02	6.7	<0.1	<0.05	6	0.5	<0.2
TK13-632	Rock	0.223	30	67	1.95	201	0.026	<1	2.43	0.064	0.16	<0.1	0.02	6.1	<0.1	<0.05	9	<0.5	<0.2
TK13-633	Rock	0.186	36	55	0.51	84	0.003	<1	1.65	0.029	0.20	<0.1	0.37	3.7	0.1	<0.05	10	<0.5	<0.2
TK13-634	Rock	0.024	4	6	0.23	100	<0.001	<1	0.49	0.007	0.10	<0.1	0.03	1.1	<0.1	0.07	2	<0.5	<0.2
TK13-635	Rock	0.055	9	9	0.60	68	0.001	<1	1.11	0.011	0.15	<0.1	0.04	2.0	<0.1	0.08	4	<0.5	<0.2
TK13-636	Rock	0.114	16	8	0.32	160	0.009	<1	1.59	0.032	0.34	<0.1	1.05	4.5	<0.1	0.17	7	<0.5	<0.2
TK13-637	Rock	0.090	38	2	0.39	71	0.092	<1	0.84	0.036	0.23	<0.1	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
TK13-644	Rock	0.028	1	5	0.01	498	<0.001	<1	0.20	0.003	0.15	0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	0.6
TK13-645	Rock	0.077	6	4	0.03	111	0.001	<1	0.38	0.006	0.24	<0.1	0.02	0.6	<0.1	<0.05	1	<0.5	<0.2
TK13-646	Rock	0.195	30	60	1.25	177	0.025	<1	1.95	0.056	0.12	<0.1	0.23	5.9	<0.1	<0.05	8	<0.5	<0.2
TK13-647	Rock	0.086	15	14	0.83	62	0.130	1	1.13	0.017	0.16	0.2	<0.01	4.8	<0.1	<0.05	9	<0.5	<0.2
TK13-648	Rock	0.088	18	11	0.56	96	0.198	<1	1.17	0.017	0.20	0.7	0.02	5.7	<0.1	<0.05	5	<0.5	<0.2
TK13-649	Rock	0.087	34	3	0.39	120	0.182	<1	0.95	0.053	0.25	0.6	0.02	5.2	<0.1	<0.05	4	0.8	<0.2
TK13-650	Rock	0.114	23	18	0.80	128	0.282	2	0.78	0.031	0.17	1.1	0.01	7.0	<0.1	<0.05	5	<0.5	<0.2
TK13-651	Rock	0.115	16	64	1.01	92	0.190	<1	1.22	0.042	0.13	0.6	0.03	7.1	<0.1	<0.05	7	<0.5	<0.2
TK13-652	Rock	0.124	19	75	1.25	65	0.286	<1	1.29	0.040	0.16	0.9	0.01	7.1	<0.1	<0.05	10	<0.5	<0.2
TK13-653	Rock	0.127	18	76	1.28	59	0.238	<1	1.40	0.026	0.15	0.5	<0.01	6.9	<0.1	<0.05	10	<0.5	<0.2
TK13-654	Rock	0.080	10	33	0.93	68	0.022	<1	0.93	0.010	0.09	<0.1	0.02	3.1	<0.1	<0.05	8	<0.5	<0.2
TK13-655	Rock	0.025	29	3	0.19	67	0.082	<1	0.82	0.030	0.21	<0.1	0.02	2.7	<0.1	<0.05	7	<0.5	<0.2
TK13-656	Rock	0.025	30	2	0.22	54	0.005	<1	1.05	0.039	0.24	<0.1	0.02	2.9	<0.1	<0.05	9	<0.5	<0.2
TK13-657	Rock	0.068	26	3	0.34	71	0.102	<1	0.73	0.039	0.20	0.1	<0.01	3.4	<0.1	<0.05	4	<0.5	<0.2
TK13-658	Rock	0.046	20	4	0.26	56	0.084	<1	0.58	0.024	0.18	0.2	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
TK13-659	Rock	0.037	15	5	0.19	53	0.083	<1	0.53	0.020	0.14	0.2	0.01	2.8	<0.1	<0.05	3	<0.5	<0.2
TK13-660	Rock	0.066	25	3	0.31	69	0.143	<1	0.80	0.031	0.19	0.3	<0.01	4.2	<0.1	<0.05	6	<0.5	<0.2
TK13-661	Rock	0.035	13	5	0.20	42	0.067	<1	0.57	0.016	0.10	0.2	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
TK13-662	Rock	0.055	21	4	0.29	63	0.128	<1	0.71	0.032	0.17	0.2	<0.01	3.5	<0.1	<0.05	5	<0.5	<0.2
TK13-663	Rock	0.060	27	4	0.30	74	0.140	<1	0.76	0.029	0.20	0.3	<0.01	4.8	<0.1	<0.05	4	<0.5	<0.2

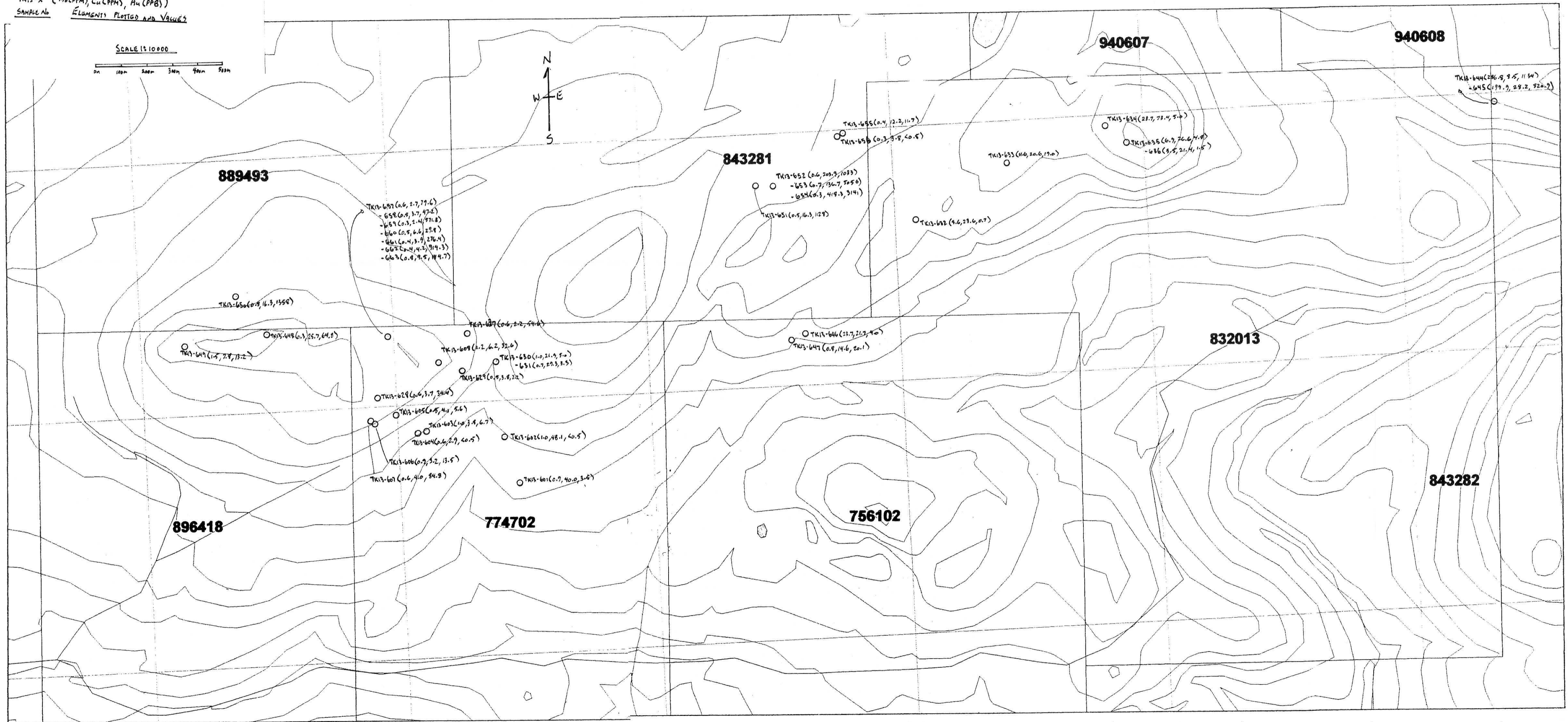
This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.

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FIGURE 5A ROCK GEO-CHEM SAMPLE LOCATIONS
WITH VALUES FOR: MOLYBDENUM, COPPER,
AND GOLD.

LEGEND

○ SAMPLE LOCATION
TK13-X (Mo(CPPM), Cu (PPM), Au (PPB))
SAMPLE No ELEMENTS PLOTTED AND VALUES



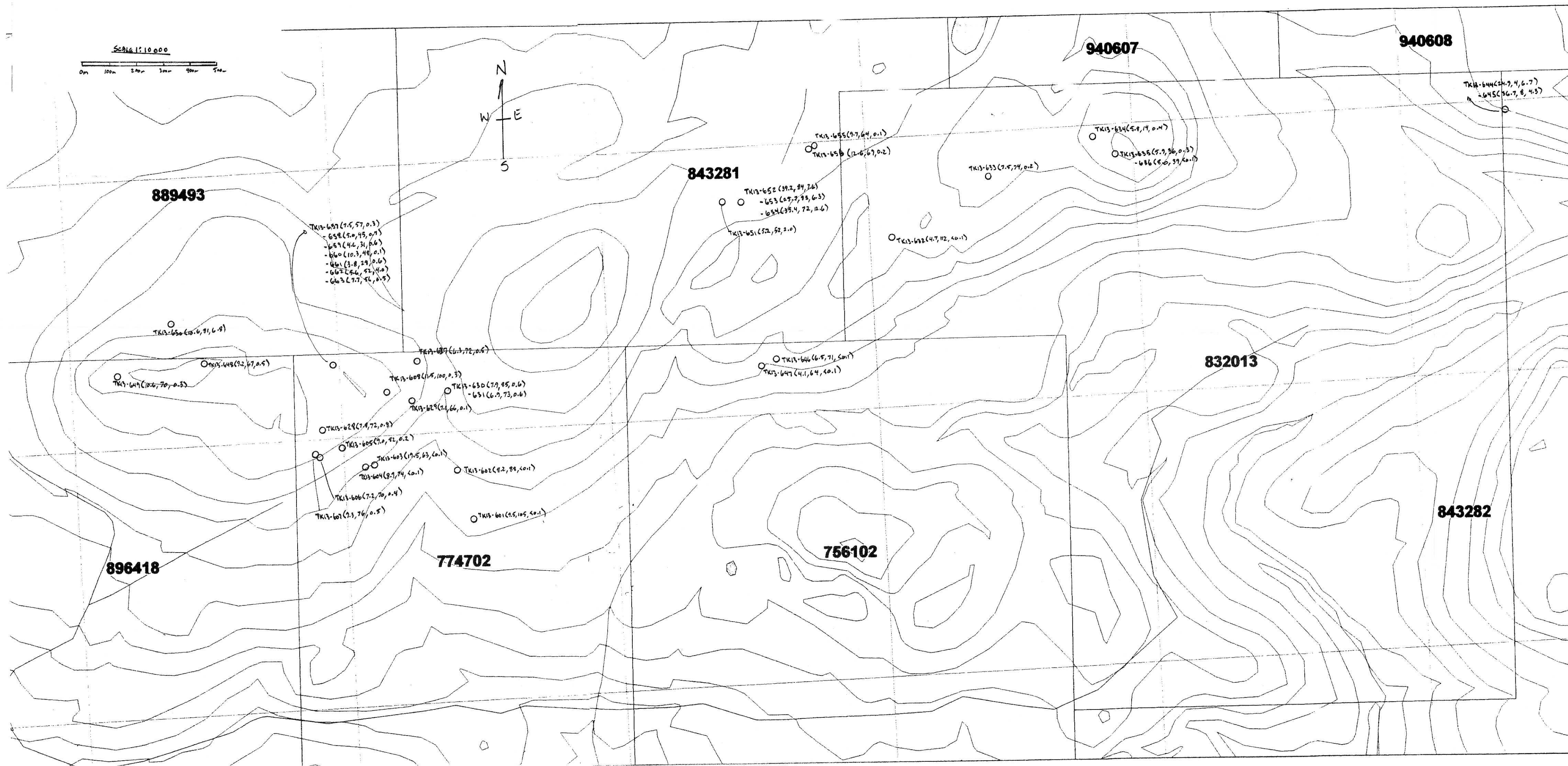
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FIGURE 5B ROCK GEOCHEM SAMPLE LOCATIONS
WITH VALUES FOR LEAD, ZINC, AND SILVER

LEGEND

○ SAMPLE LOCATION
TK13-n (Pb(PPM), Zn(PPM), Ag(PPM))
SAMPLE ELEMENTS PLOTTED AND VALUES



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FIGURE 5C ROCK GEO-CHEM. SAMPLE LOCATIONS
WITH VALUES FOR ARSENIC AND ANTIMONY

LEGEND

- SAMPLE LOCATION
- TKIS - X (As (PPM), Sb (PPM))
- SAMPLE No ELEMENTS PLOTTED AND VALUES

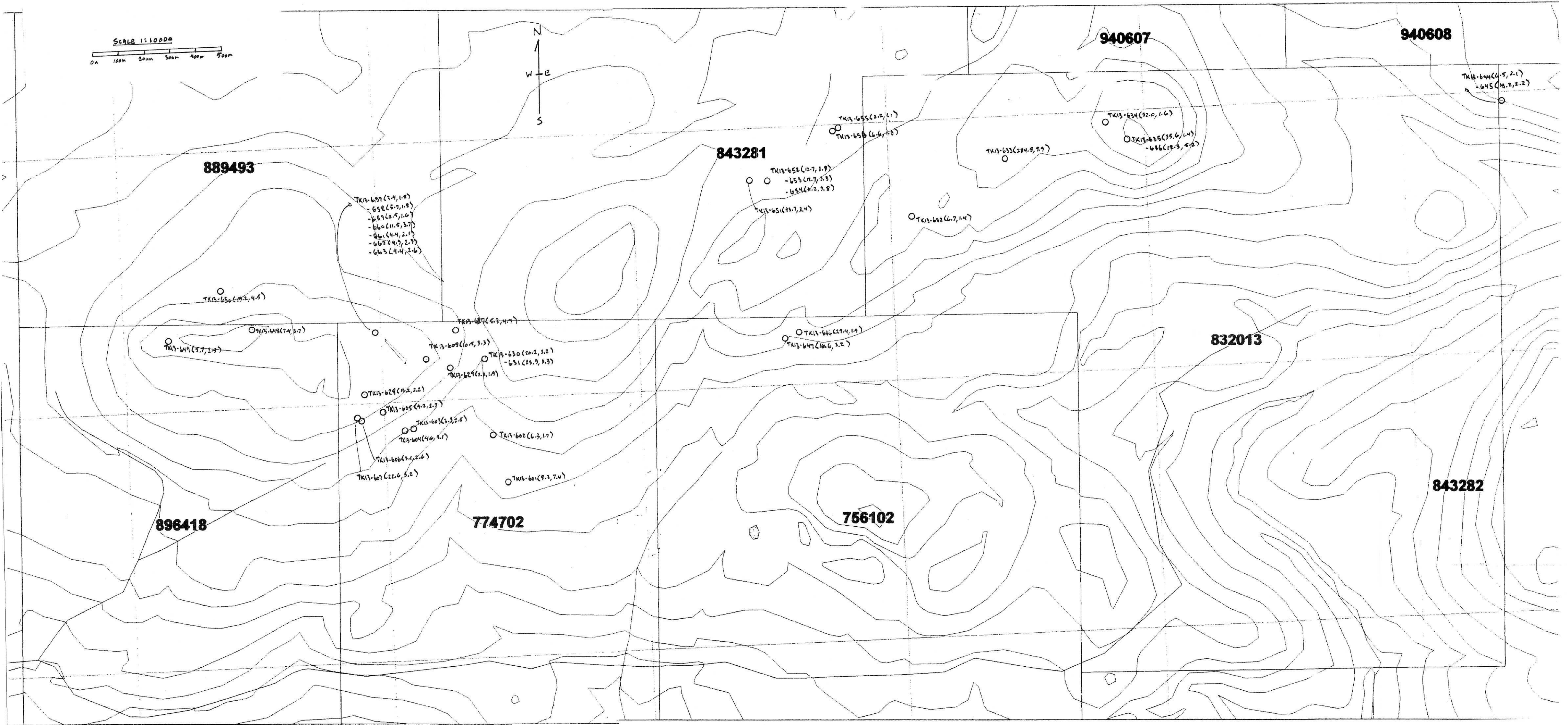
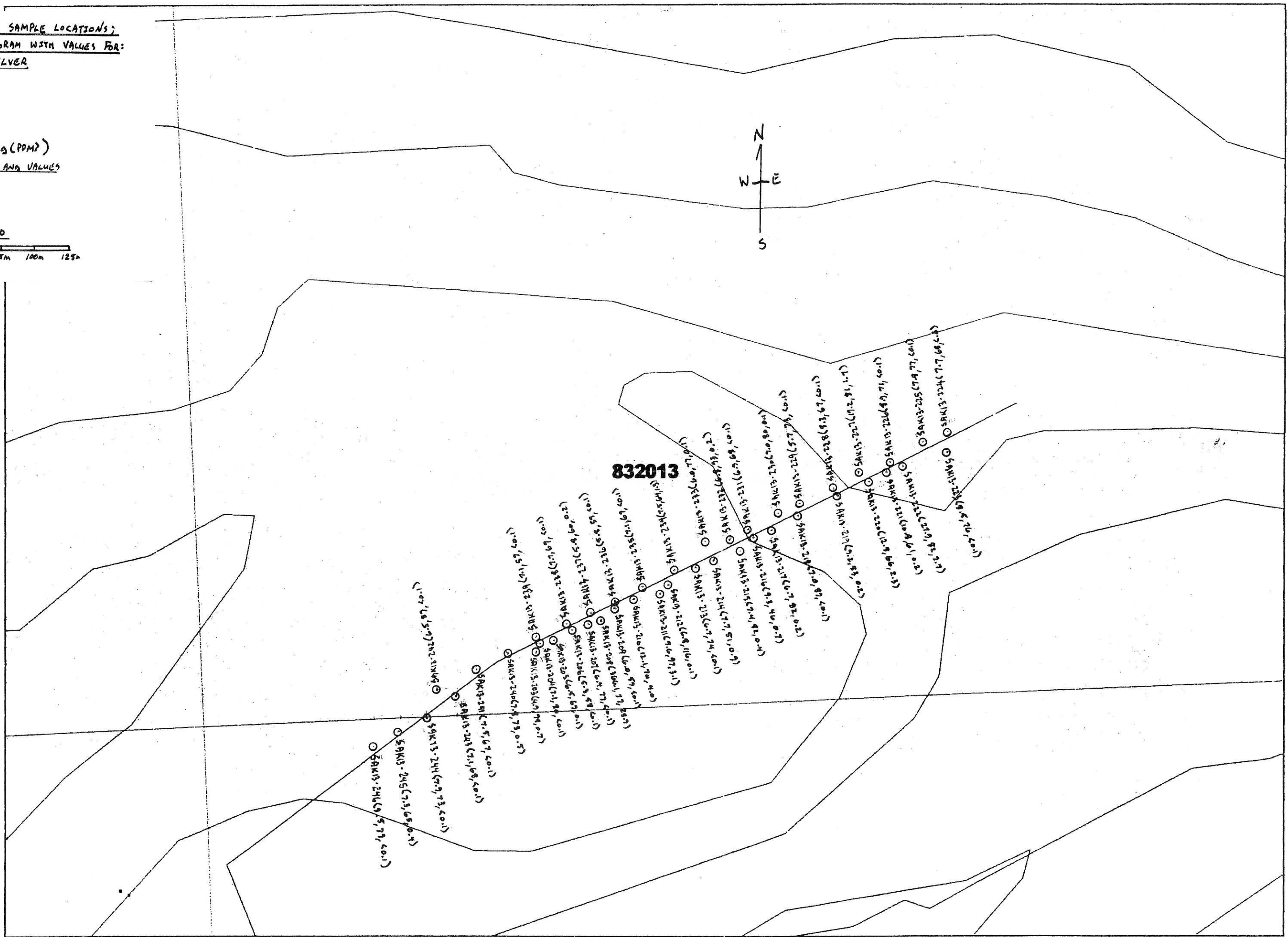
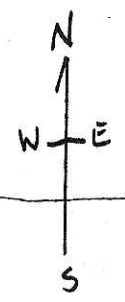
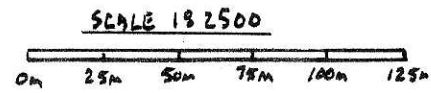


FIGURE 6B ROCK GEO-CHEM SAMPLE LOCATIONS;
ROCK CHEM PROGRAM WITH VALUES FOR:
LEAD, ZINC, SILVER

LEGEND

- SAMPLE SITE
- SAKIS-X (Pb (PPM), Zn (PPM), Ag (PPM))
- SAMPLE No ELEMENTS PLOTTED AND VALUES



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FIGURE 6C ROCK GEO-CHEM SAMPLE LOCATIONS:
ROCK CHEP PROGRAM WITH VALUES FOR:
ARSENIC AND ANTIMONY

LEGEND

- SAMPLE SITE
- SAK13-X (AS(PPM),SB(PPM))
- SAMPLE No ELEMENTS PLOTTED AND VALUES

SCALE 1:2500

