

**REPORT ON  
SOIL GEOCHEMICAL SURVEY  
ON THE JERI NORTH ZONE, MEL PROPERTY  
WATSON LAKE MINING DISTRICT**

<b>Claim Names</b>	<b>Grant Numbers</b>
<b>SAM 13</b>	<b>YB 46153</b>
<b>SAM 48-53</b>	<b>YB 46188 – YB 46193</b>
<b>SAM 55</b>	<b>YB 46195</b>
<b>SAM 57</b>	<b>YB 76197</b>
<b>SAM 59</b>	<b>YB 46199</b>
<b>SAM 63</b>	<b>YB 46203</b>
<b>SAM 65</b>	<b>YB 46205</b>
<b>SAM 71-72</b>	<b>YB 46211 – YB 46212</b>
<b>SAM 74</b>	<b>YB 46214</b>
<b>SAM 76</b>	<b>YB46216</b>
<b>SAM 80</b>	<b>YB 46220</b>
<b>SAM 82</b>	<b>YB 46222</b>

**NTS 95 D6  
Latitude = 60° 21' West  
Longitude = 127° 24' West  
Owner - Kobex Minerals Inc.**

**Report by H.L. King, P. Geo**

**Dates work Performed: August 26, 2012 to September 1, 2012**

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## **1.0 Summary**

A geochemical soil sampling program was carried out on the Jeri North portion of the SAM claim group between August 26, 2012 and September 1, 2012.

A total of 229 soil samples were collected and analyzed to fill in gaps in the 1996 Jeri North soil sampling grid carried out by Cominco Ltd. Samples were collected from four separate grids, along 100 m-spaced, east-west lines at soil sampling stations spaced at 50 m intervals.

Of the 229 samples collected, 12 returned anomalous zinc values, 12 returned anomalous lead values and 12 samples returned anomalous barium values. Results of the 2012 soil sampling program confirm the presence of elevated zinc in soils within the N-S trending Jeri North Zone as previously identified in the original 1996 soil survey. Lead values are typically low. With sampling completed on 100 m lines, the 2012 results increased the resolution of the anomalous zones within the soil geochemical coverage.

## **2.0 Introduction**

This report summarizes results of the soil geochemical survey carried out on the Jeri North portion of the SAM claim group on the Mel Property. The objective of this work was to fill in gaps in the 1996 soil geochemical survey carried out by Cominco Ltd.

A CD containing this report and digital data collected is attached to this report (in pocket).

## **3.0 Location and Access**

The Mel property is located in Southeast Yukon, 80 km east-northeast of Watson Lake (Figure 1). The property is located on NTS95 D/6 map sheet (Coal River) centered at 60° 23'N and 127° 20'E. UTM coordinates for the centre of the property are 6,694,000N and 591,000E.

Access to the property is provided by a winter road approximately 50 km long, leading north from a point on the Alaska Highway 77 km east of Watson Lake.

Alternate access is provided by a 640m-long airstrip located 1.5 km south of the Mel Main Deposit.

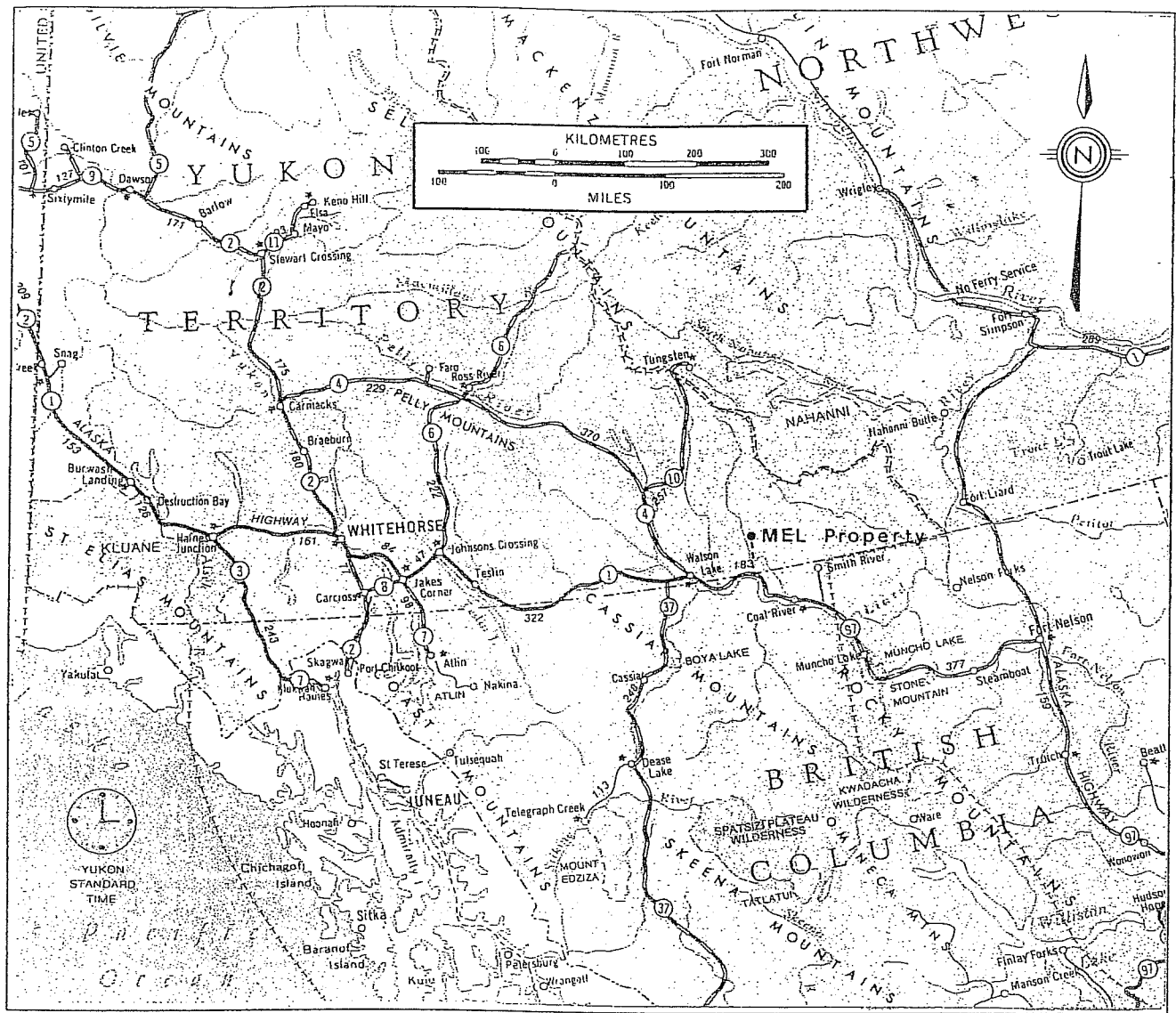
## **4.0 History**

Extensive exploration work has been carried out on the Mel Property.

The results of previous exploration work, including location and extent of known mineralization, is illustrated in Figure 3 Geology and Mineralization.

The property was first staked by prospectors in 1967 and was subsequently acquired by Empire Metals Corporation Ltd. ("Empire"). Newmont Mining Corporation ("Newmont") optioned the property and conducted a program of trenching and geochemical surveys. Five trenches exposed low-grade, Mel Main Zone zinc-lead-barite mineralization over a strike length of 488 meters. The zone averaged 5.3% combined lead-zinc over widths from 2.3 to 9 meters.

Newmont subsequently dropped their option and the Mel property reverted to Empire in September, 1973. Empire then optioned the property to Granby Mining Corp. ("Granby"). Between 1974 and 1975, Granby conducted an 18 hole diamond drill program (1,952 meters). The drilling intersected two parallel, north-striking, barite-sphalerite-galena zones. The Mel Main Zone averaged 6.1 meters true width. Based on the drilling, a mineral resource of 2.6 million tonnes averaging 5.35% zinc, 1.93% lead, and 54.6% barite to a depth of 152 meters below surface was estimated.



### ▲ LOCATION MAP

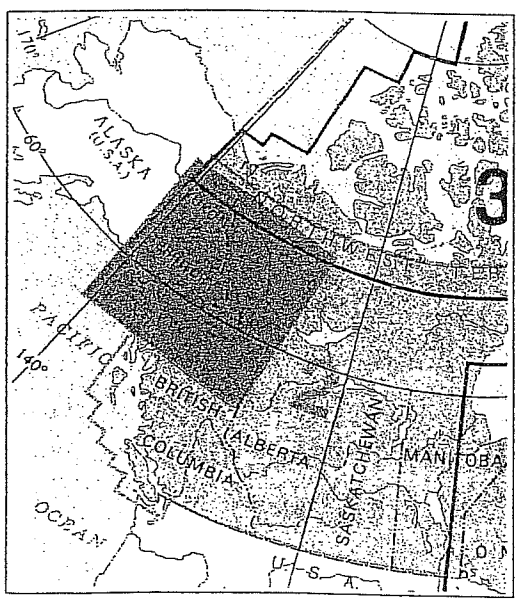
Watson Lake Mining District, Yukon

Distances from Mel Property

- Watson Lake 80 km (Air)
- Alaska Hwy 50 km (Winter Rd.)
- Fort Nelson 507 km - Railhead
- Skagway 666 km - Tidewater

### INDEX MAP ▶

Area Covered  
Yukon and Northern B.C.



### MEL PROPERTY LOCATION & ACCESS

DRAWN BY DCM/HSA	NTS 95 D/6	FIGURE
REPORT DATE February 18, 2013	PROJECT NO.	1

In 1976, St. Joseph Explorations Ltd. ("St. Joseph") optioned the Mel property from Sovereign Metals Corporation Ltd. ("Sovereign") and conducted geological mapping, geochemical and geophysical surveys on the property. Empire changed its name to Sovereign in January 1976. During 1978 and 1979, St. Joseph completed a 19 hole drill program totalling 4,054 meters. Based on the drill program, a mineral resource of 4,782,380 tonnes grading 5.61% zinc, 2.05% lead, and 52.1% barite was estimated by St. Joseph for the Mel Main Zone. Preliminary metallurgical testing conducted on the Mel Main Zone by Lakefield Research in 1978 yielded concentrates ranging from 60.9% to 84.7% zinc, 78.0% to 79.6% lead and 90.3% to 94.4% barite.

In 1981, St. Joseph sold its 51% interest in the Mel property to Sulpetro Ltd. Following the sale, Sulpetro Minerals Ltd. ("Sulpetro") was established to hold the property. Regional exploration conducted by Sulpetro in 1981 led to the discovery of the "Mel East Zone", a zinc showing, located 7.3 kilometers northeast of the Mel deposit. Limited geochemical surveys conducted by Sulpetro over the next two years defined a large zinc soil anomaly in the area of the Mel East Zone.

Geological mapping and geochemical sampling conducted in 1984 between the Mel Main Zone and the Mel East Zone led to the discovery of the Jeri zinc showing, located 4 kilometers north-northeast of the Mel Main Zone. During 1985, Sulpetro drilled 10 holes totaling 1,009 meters to test the Jeri Zone. Nine (9) of the 10 holes intersected zinc mineralization over a strike length of 550 meters. Zinc values ranged up to 13.11% zinc over 3.37 meters within a large zone of silicified and dolomitized limestone. Later that year, Sulpetro sold its interest to Novamin Resources Ltd. ("Novamin"), who drilled-tested the Mel Main Zone at depth with a 7 hole drill program totalling 2,012 meters. Drill results indicated that the zinc-lead-barite mineralization continued to a depth of at least 450 meters below surface. As a result of the Novamin drilling, the mineral resource estimate was increased to 5,581,030 tonnes grading 6.63% zinc, 1.92% lead, and 49.64% barite. Breakwater purchased Novamin in 1988, giving them joint ownership of the Mel property with Barytex Resources Corp. ("Barytex") formerly Sovereign.

In 1989, Barytex conducted a soil geochemical survey near the Jeri Zone and completed four diamond drill holes (663 meters) on the Mel Main Zone. The drill program consisted of in-fill drilling at the north end of the Mel Main Zone and confirmed the continuity of the Mel Main Zone. Based on a 29 hole drill program, Barytex subsequently estimated a mineral resource for the Mel Main Zone of 5,687,492 tonnes grading 6.77% zinc, 1.92% lead and 51.1% barite.

A 1989 pre-feasibility study by Sandwell Swan Wooster Inc. concluded that the property was potentially viable and provided recommendations for further exploration and development.

Barytex conducted an in-fill drill program consisting of 11 diamond drill holes totalling 1,552 meters and surface trenching in 1990. Drilling between previously drilled, widely spaced holes aided in the design of an open-pit.

A resource estimate, based on 48 intersections from 42 diamond drill holes, was provided by consultants Nevin Sadlier-Brown Goodbrand Ltd. in a report dated October 9, 1990. The report stated that the Mel Main Zone contained a drill-indicated mineral inventory of 5,238,000 tonnes grading 7.86% zinc, 2.09% lead, and 48.98% barite for the Mel Main Zone.

In November 1992, Barytex was reorganized and the Company's name changed to International Barytex Resources Ltd. ("IBX"). Since August 1993, IBX and Cominco have spent a total of \$1.33 million on exploration of the Mel property that has included the drilling of 25 diamond drill holes totalling 6,173 meters. Of the four sediment-hosted, zinc-rich zones discovered to date, three have been drilled; the Mel Main Zone, Jeri Zone and Jeri North Zone. The majority of the drilling has been conducted on the Mel Main Zone. No drilling has been conducted on the Mel East Zone.

During 1993, eighty-six (86) claims were staked to cover the northerly strike extension of the Jeri Zone and 66 line-kilometers of grid was established. Geological mapping traced the favorable contact hosting the Jeri Zone zinc mineralization for a strike length of over 9 kilometers. Eleven (11) trenches, excavated in 1993, exposed mineralization along a 2.5 kilometer section of the Jeri Zone. The most significant assay

results from trench sampling were obtained from trench 5, where a 5 meter-wide zone averaged 16.5% zinc and in trench 4, where a 5 meter-wide zone averaged 10.7% zinc.

In 1994, six (6) additional drill holes totaling 3,122 meters were drilled on the Mel Main Zone. This led to an increase in the mineral resource, estimated by IBX, to 6,778,000 tonnes grading 7.1% zinc, 2.03% lead and 54.69% barite. Higher grade intersections have been defined within the Mel Main Zone in excess of 12% combined lead-zinc. The highest grade intersection assayed 19.72% zinc over an estimated true thickness of 5.16 meters. The Mel Main Zone is open down dip with potential to increase the resource tonnage.

Geochemical and geophysical surveys conducted in 1995 along strike and to the north of the Jeri Zone revealed significant zinc anomalies and geophysical induced polarization ("IP") and resistivity anomalies. During 1995, this new area, identified as Jeri North Zone, was tested with 8 widely-spaced drill holes totaling 847.6 meters over a strike length of two kilometers. Two of these holes intersected significant zinc mineralization; 15.6% zinc over a core length of 5.1 meters in hole J-95-5 and 9.9% zinc over a core length of 5 meters in hole J-95-4.

In the area 1.5 kilometers south of the Mel Main Zone, two drill holes tested a geophysical conductor on strike with the Mel Main Zone. The targeted mineralized horizon was not reached.

In 1996, Cominco, under an option agreement with IBX and Breakwater, began exploration work on the Mel Property. Exploration work included the drilling of 6 diamond drill holes totaling 1,189 meters on the Jeri North Zone. This program was aimed at further testing the 1995 discovery of zinc mineralization in holes J-95-4 and J-95-5. Drill hole J-96-10 drilled 200 meters to the south and along strike of holes J-95-4 and J-95-5, encountered 12.38% zinc over a 3 meter core length. The other 5 holes drilled within this area intersected lower grade zinc mineralization.

In the area to the south of the Mel Main Zone, one drill hole was drilled to test an IP anomaly believed to represent the southern extension of the favorable mineralized horizon hosting the Mel Main Zone. This drill hole did not intersect the favorable contact zone.

Cominco conducted a soil sampling program on the Mel East Zone to confirm the presence of the large zinc anomaly originally outlined by Sulpetro during their 1983 exploration program. Results indicated a strong zinc soil anomaly over an area 1,400 meters long by 150 meters wide, open to the north, south, and east. This anomaly is coincident with the favorable contact hosting a zinc showing. Cominco conducted additional soil sampling in 1996 in the Jeri North Zone area. Several anomalous samples correspond with the projected trace of the mineralized horizon.

During 1997, Cominco conducted IP and resistivity surveys in three areas: south of the Mel Main Zone; the Mel East Zone area; and an area on the southern part of the Jeri Zone. In addition, a magnetic survey and a limited gravity survey were conducted south of the Mel Main Zone. The geophysical program resulted in the identification of anomalies in all three areas surveyed. Two drill holes tested the geophysical conductors located 1.5 kilometers south of the Mel Main Zone. The holes intersected carbonaceous mudstones, interpreted to be a source for the geophysical anomalies. Neither of the two drill holes intersected the target contact zone that is host to the Mel Main Zone.

To date a total of 90 diamond drill holes (16,759 metres) have been drilled on the Mel property.

## **5.0 Property and Ownership**

The Mel Property consists of 257 mineral claims covering 5,380 hectares. A list of the claims and information regarding the claims is shown in Table 5.1. Claim Location Map is shown in Figure 2.

Kobex Minerals Inc. has a 100% undivided interest in the mineral claims subject only to a royalty payment of 1% net smelter returns to Breakwater Resources Ltd.

Assessment work required to keep the claims in good standing is \$100 per claim per year. Sufficient work has been filed to keep all claims in good standing until at least April 3, 2013.

Twenty nine (29) claims require a payment of \$100 per claim or equivalent assessment work amount to extend expiry dates to April 3, 2014.

A permit to conduct exploration work on the property is required. A Mining Lands Use Permit and Approval Operating Plan (LQ00221) was issued in June 2007, allowing exploration to June 2017. Pre-season and post season reports are required to be filed each year.

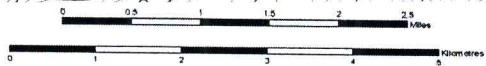
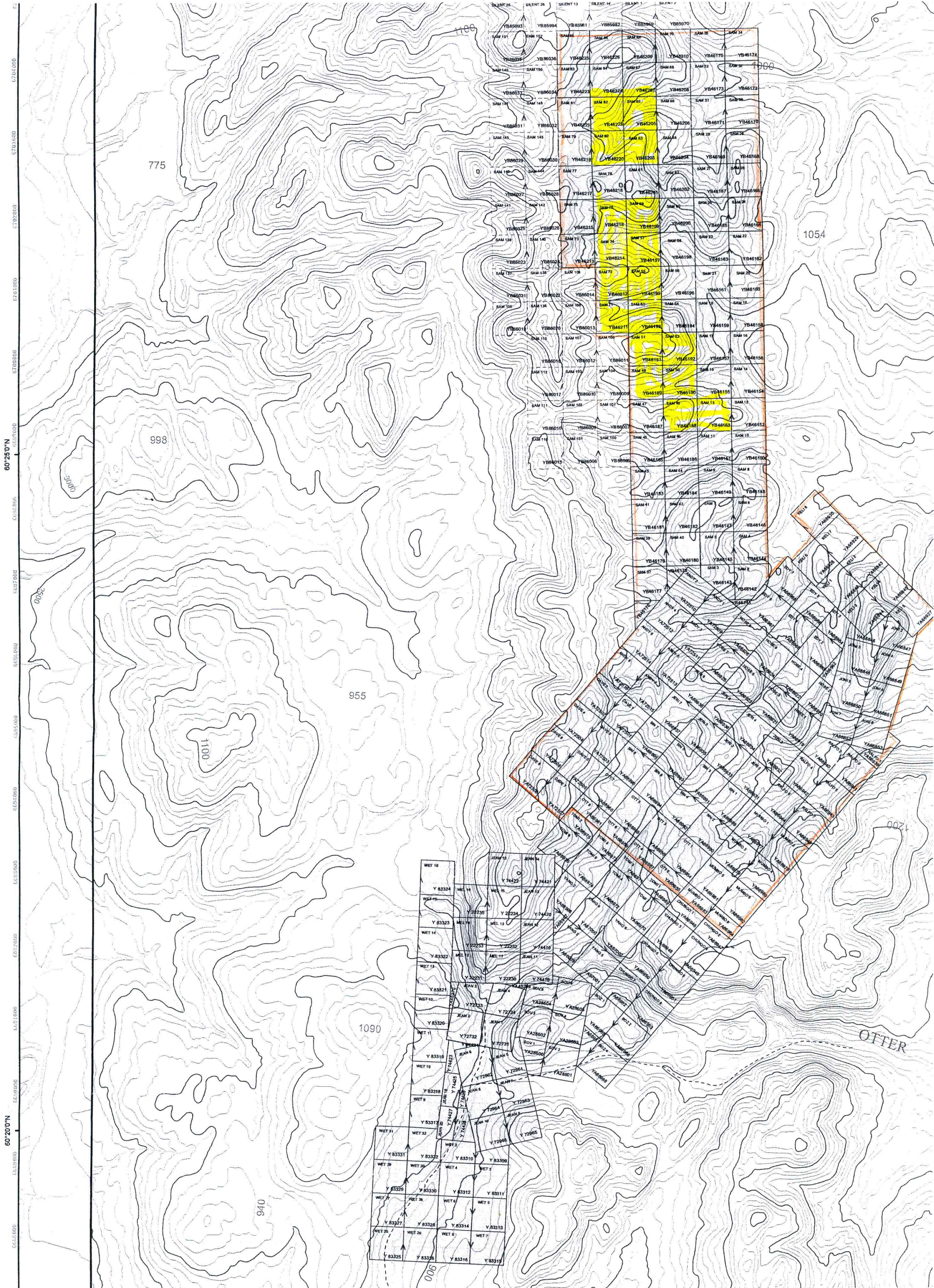
**Table 5.1 Mel Property Claim Status**

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date</u>
ANDY 1 - 8	YA72509 - YA72516	2015/04/03
BOZ 1 - 4	YA66985 - YA66988	2015/04/03
CHUNGO 1 -4	YA66946 - YA66949	2013/04/03
CHUNGO 5	YA66950	2015/04/03
CHUNGO 6	YA66951	2013/04/03
CHUNGO 7 - 8	YA66952 - YA66953	2015/04/03
DAVE 1 - 8	YA72501 - YA72508	2015/04/03
EDY 1 - 7	YA66962 - YA66968	2015/04/03
HOSE 1 - 4	YA66919 - YA66922	2015/04/03
HOSE 5	YA66923	2017/04/03
HOSE 6	YA66924	2015/04/03
HOSE 7	YA66925	2017/04/03
HOSE 8	YA66926	2015/04/03
JEAN 1 - 4	Y 72731 - Y 72734	2019/04/03
JEAN 5	Y 72961	2016/04/05
JEAN 6	Y 72962	2018/04/05
JEAN 7	Y 72963	2016/04/05
JEAN 8 - 10	Y 72964 - Y 72966	2015/04/05
JEAN 11	Y 74418	2017/04/03
JEAN 12 - 15	Y 74419 - Y 74422	2015/04/03
JEAN 16	Y 74423	2013/04/03
JEAN 17	Y 74424	2017/04/03
JEAN 18	Y 74425	2016/04/03
JEAN 19	Y 74426	2017/04/03
JEAN 20 - 21	Y 74427 - Y 74428	2013/04/03
JERI 1 - 8	YA66931 - YA66938	2017/04/03
JOE 1 - 2	YA45269 - YA45270	2016/04/03
JONI 1 - 8	YA66846 - YA66853	2015/04/03
KELI 1 - 4	YA66842 - YA66845	2015/04/03
KELI 5 - 8	YA66927 - YA66930	2015/04/03
MEL 11 - 16	Y 22230 - Y 22235	2016/04/03
MUMBO 1 - 8	YA66977 - YA66984	2015/04/03
OTT 1 - 8	YA66954 - YA66961	2015/04/03
RALFO 1 - 5	YA66939 - YA66943	2015/04/03
RALFO 6	YA66944	2017/04/03
RALFO 7	YA66945	2015/04/03
SAM 1-4	YB46141-YB46144	2015/04/03
SAM 5	YB46145	2017/04/03
SAM 6	YB46146	2015/04/03
SAM 7	YB46147	2017/04/03
SAM 8 - 39	YB46148 - YB46179	2015/04/03

127°30'0"W

127°25'0"W

127°20'0"W



<b>KOBEX MINERALS INC.</b> MEL PROPERTY CLAIM LOCATION MAP WATSON LAKE MINING DISTRICT, YUKON	
SOURCE: NATURAL RESOURCES CANADA, 2008	
NATIONAL TOPOGRAPHIC DATA BASE	
95D/06	
DATE: FEBRUARY 21, 2012	FIGURE <b>2</b>

SAM 40	YB46180	2017/04/03
SAM 41	YB46181	2015/04/03
SAM 42 - 51	YB46182 - YB46191	2017/04/03
SAM 52	YB46192	2015/04/03
SAM 53	YB46193	2017/04/03
SAM 54	YB46194	2015/04/03
SAM 55	YB46195	2017/04/03
SAM 56 - 70	YB46196 - YB46210	2015/04/03
SAM 71	YB46211	2017/04/03
SAM 72 - 86	YB46212 - YB46226	2015/04/03
SIN 1 - 8	YA66989 - YA66996	2013/04/03
SOV 1 - 6	YA28600 - YA28605	2016/04/03
TOMI 1 - 8	YA66969 - YA66976	2013/04/03
WET 1	Y 83309	2015/04/03
WET 2	Y 83310	2016/04/03
WET 3	Y 83311	2015/04/03
WET 4	Y 83312	2016/04/03
WET 5 - 11	Y 83313 - Y 83319	2015/04/03
WET 12 - 16	Y 83320 - Y 83324	2016/04/03
WET 25 - 32	Y 83325 - Y 83332	2015/04/03
YANG 1-4	YA67997 – YA67000	2013/04/03
YANG 5	YA 67001	2015/04/03
YANG 6	YA 67002	2013/04/03

## 6.0 Regional and Local Geology

The claims are situated near the southern margin of the Selwyn Basin, a tectonic element present during Paleozoic time. Sedimentary rocks are dominant and range in age from late Precambrian to Devonian-Mississippian. Mafic to intermediate volcanic rocks ranging in age from Upper Proterozoic to Lower Cambrian are present northeast of the property.

Sedimentary strata are folded along north-south trending axes and are offset by strike-slip, normal and thrust faults. Major north-south trending thrusts have easterly directed displacements ranging up to 3,000 meters.








The Mel property is underlain by sedimentary strata which are Lower Cambrian to Silurian in age. Lithologies include carbonates and clastic sediments broadly folded into a north-south trending, overturned syncline (Figure 3). The synclinal structure has been modified by a number of north-south trending faults which may exhibit both vertical and lateral displacements.

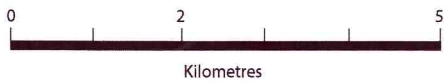
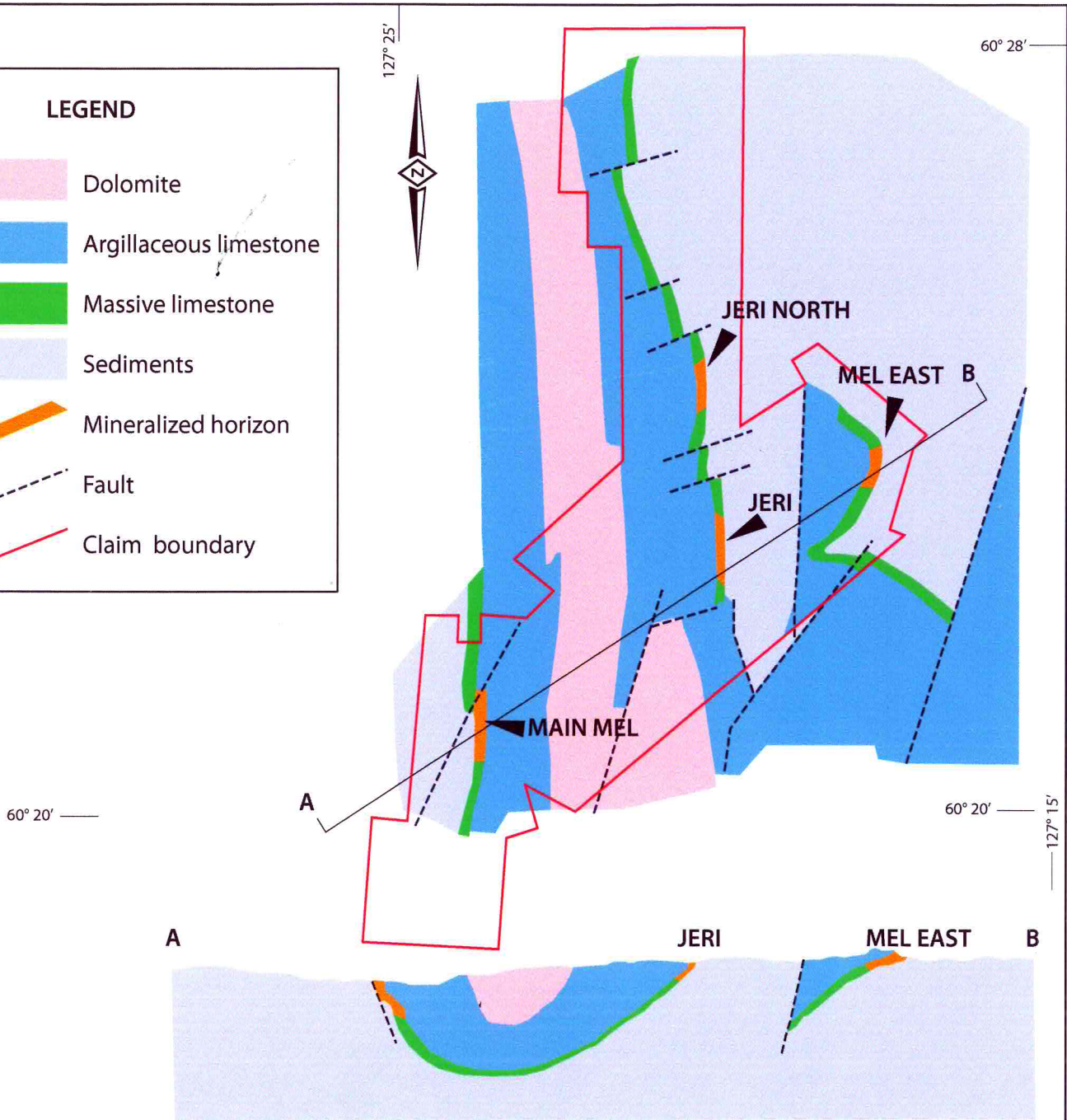
The stratigraphic unit which hosts the mineralization in the Mel deposit area is a well defined barite-quartz horizon which disconformably overlies a 150 meter-thick, grey, cryptocrystalline limestone unit. A distinctive 30 meter-thick argillite unit overlying the mineralized horizon grades upward into wavy banded limestone, a rock unit which is well represented in the region.

## 7.0 Mineralization

The zinc-lead-barite mineralization at the Mel Main Zone and the zinc showings at the south end of the Jeri Zone and Mel East Zone occur within a stratigraphic zone resting on a cryptocrystalline limestone unit that is overlain by a distinctive argillite unit grading upward into a wavy banded, argillaceous limestone. At the Jeri North zone, the same stratigraphic interval contains zinc (coarse-grained sphalerite) mineralization in a massive chert overlain by a volcanic flow and volcanoclastic sequence followed by

**LEGEND**

-  Dolomite
-  Argillaceous limestone
-  Massive limestone
-  Sediments
-  Mineralized horizon
-  Fault
-  Claim boundary



<b>KOBEX MINERALS INC.</b>	
MEL PROPERTY	
GEOLOGY AND MINERALIZATION	
Date:	Mar, 2012
Author:	MJD
Drawing:	Tetracad Geoscience Services Ltd.
Projection:	Long/Lat.
Figure:	<b>3</b>

wavy banded, argillaceous limestone. Of the four sediment-hosted, zinc-rich zones discovered to-date, three zones, the Mel Main Zone, Jeri Zone, and Jeri North Zone have been tested by drilling.

### **7.1 Mel Main Zone**

At the Mel Main Zone, mineralization consists of coarse-grained sphalerite and galena disseminated throughout a mixture of mudstone, silica, carbonate, and coarse crystalline barite. Minor amounts of fine grained, sparsely disseminated pyrite occur locally but overall accounts for less than 2% of the sulphides.

Resource estimates based on drilling at the Mel Main Zone, has outlined an Indicated Resource of 6.78 million tonnes grading 7.10% zinc, 2.03% lead, and 54.69% barite based on 48 holes. The deposit is open down-dip with potential for a significant increase in tonnage.

### **7.2 Jeri Zone and Jeri North Zone**

At the Jeri Zone, unusually strong alteration of the footwall carbonate to zinc-bearing, hydrothermal dolomite and silicified dolomite has been exposed along the middle fold limb for several kilometers.

During 1985, Sulpetro drilled 10 holes totaling 1,009 meters to test the Jeri Zone. Nine (9) of the 10 holes drilled over a strike length of 550 meters intersected zinc mineralization. Zinc values ranged up to 13.11% zinc over 3.37 meters of core length within a thick zone of silicified and dolomitized limestone. In 1993, eleven trenches were excavated across the Jeri Zone along a 2.5 kilometer segment of the favorable horizon. Zinc values of up to 16.5% zinc over a 5 meter-wide zone were obtained from trench No. 5. The mineralization consisted of disseminated smithsonite and minor sphalerite hosted in silicified and dolomitized limestone. The work conducted to date on the Jeri Zone is not sufficient to allow resource estimates to be made.

Geological mapping has extended this favorable horizon for 8 kilometers northward where diamond drilling in 3 holes during August, 1995 at the Jeri North Zone resulted in the discovery of zinc mineralization within an extensive chert unit underlying volcanic flows and tuffs that form part of the stratigraphy. Hole No. 95-4 intersected 9.9% zinc over 5.0 meters (4.7 meters true width) within a massive chert unit. Hole No. 95-5, drilled on the same section, intersected 15.6% zinc over 5.1 meters (3.1 meters true width) 70 meters down dip.

The Jeri North Zone was further tested in 1996 with drilling of 6 holes by Cominco totaling 1,139 meters in an attempt to expand the zone of zinc mineralization intersected in hole Nos. J-95-4 and J-95-5. One of the holes (J-96-10) drilled on strike and 200 meters to the south of J-95-4 and J-95-5, intersected two zones of significant sphalerite mineralization. One zone assayed 3.39% Zn over 2.1 meters of core length; the second zone returned 12.38% Zn over 3.0 meters of core length. However, holes drilled to test the down-dip and on strike extent of the above mentioned intersections failed to encounter significant zinc mineralization thus limiting the size of the mineralized zone.

At least five kilometers of the favorable horizon hosting the Jeri Zone and Jeri North Zone of zinc mineralization remains to be tested. Mineralization at the Jeri Zone is hosted by a limestone unit considered to be the equivalent of the cryptograined limestone which occurs at the Mel Main Zone. In the Jeri Zone area, these rocks are locally silicified, dolomitized, and brecciated at, and immediately beneath, the contact with the overlying argillite. The altered and brecciated limestone is mineralized by the zinc minerals smithsonite and sphalerite. Elevated lead values are present but no economically significant lead mineralization has been identified. Barite is present as a gangue mineral in quartz veins but does not appear to be sufficiently abundant to be economically important. The presence of the zinc carbonate mineral smithsonite suggests that zinc mineralization may, in part, be secondary.

### **7.3 Mel East Zone**

At the Mel East Zone, smithsonite mineralization occurs at the contact of cryptograined limestone and wavy banded limestone on the eastern-most fold limb at the same stratigraphic position as seen at the Jeri

and Jeri North zones. Three grab samples taken in 1981 from 3 separate small outcrops averaged 9.6% zinc. Subsequent soil sampling in 1982 revealed a 1,400 meter-long soil geochemical zinc anomaly coincident with the mineralized contact. Soil sampling in 1996 by Cominco confirmed the earlier geochemical results and outlined a north-south trending zinc anomalous zone 1,300 meters long and 150 meters wide that is open to the north, east, and south.

The mineralization at the Mel Main Zone, the Jeri Zone and the Mel East Zone is considered to be sedimentary-exhalative in origin. All the mineralization discovered to date occurs at the contact with underlying cryptocrystalline limestone.

In addition to the exhalative type mineralization, there is potential for the discovery of unconformity and karst related zinc mineralization.

## **8.0 2012 Exploration**

In 2012 APEX Geoscience Ltd. (“APEX”) was retained by Kobex Minerals Inc. (“Kobex”) to conduct an exploration program at the Mel Property. The work was carried out by geologists Christ Livingston and Perry Holm, employed by APEX. Between August 27 and September 1, 2012, APEX completed a soil geochemical sampling program on the Property, specifically targeting the SAM claim group in the Jeri North Zone. A total of 229 soil samples were collected and analyzed as selective infill to the 1996 Cominco Ltd. Jeri North soil sampling grid.

### **8.1 Sampling Methodology**

Samples were collected from four separate grids, along 100 m spaced, east-west oriented lines with a station spacing of 50 m. Notes were taken pertaining to the samples’ colour, medium, compaction, sorting, and moisture content, as well as the topographic relief and vegetation cover in the area. Two hundred twenty eight samples were collected from the “B” soil horizon, using a shovel to dig to an average depth of 35 cm. All samples were placed into labelled KRAFT paper soil sample bags along with a labelled identification tag, and sealed. Sample locations were recorded with a handheld GPS device and marked with flagging tape in the field.

### **8.2 Sampling Results**

The following description of the 2012 soil sampling results is taken from a memo provided to Kobex by APEX. Results of the soil sampling are shown in Figure 4, Soil Geochemistry (zinc) and Figure 5, Soil Geochemistry (Lead).

Four soil sampling grids, corresponding to four soil geochemical anomalies identified from the 1996 Jeri North soil data, were established in 2012 as selective infill to the 1996 grid. From south to north, the Anomaly 1, 2, 3 and 4 grids comprise 6 lines (41 samples), 11 lines (88 samples), 7 lines (57 samples), and 6 lines (43 samples), respectively. The results of the 34 element Inductively Coupled Plasma Emission Spectrometry (ICP-ES) for the 229 soil samples are listed in Appendix A.

### **8.3 Sample Preparation, Analyses, and Security**

Soil samples were placed into sealed KRAFT bags and then into sealed poly woven (rice) bags for shipment to the analyzing laboratory immediately following collection. All samples were collected by APEX personnel and sent to the Acme Analytical Laboratories Ltd. (“Acme”) facility in Vancouver, British Columbia laboratory for analysis by standard trace-level, multi-element Inductively Coupled Plasma Emission Spectrometry (ICP-ES). Acme’s Vancouver facility is compliant with the International Standards Organization (ISO) 9001 Model for Quality Assurance and is currently registered with ISO/IEC 17025:2005 accreditation from the Standards Council of Canada (SCC).

The lab reported nothing unusual with respect to the shipment, once received. The author did not have control over the samples from shipping up to the time they were received by ACME. However, the author has no reason to believe that the security of the samples was compromised.

The samples were dried at 60°C prior to preparation, and then a 100 g sample was sieved to -80 mesh (180 microns). The samples were then split into pulp and reject portions; the pulps were sent for analysis and the rejects were moved into secure storage. The sample pulps (0.5 g) were analyzed by Acme’s “1D01” method, whereby a prepared sample is digested with aqua regia, diluted with deionized water, and analyzed by ICP-ES. Detection limits of 3 ppm to 10,000 ppm Pb and 1 ppm to 10,000 ppm Zn were achieved using the 1D01 method.

## 8.4 Data Verification

Quality assurance and quality control (QA/QC) measures at Acme Labs include the insertion of blanks (analytical and method), duplicates and standard reference materials into the sample sequences to ensure accuracy and precision. Acme Labs (2012) summarize their QA/QC procedures as follows:

*“QA/QC protocol incorporates a granite or quartz sample-prep blank(s) carried through all stages of preparation and analysis as the first sample(s) in the job. Typically an analytical batch will be comprised of 34-36 client samples, a pulp duplicate to monitor analytical precision, a -10 mesh reject duplicate to monitor sub-sampling variation (rock and drill core), a reagent blank to measure background and an aliquot of Certified Reference Material (CRM) or Inhouse Reference Material to monitor accuracy. In the absence of suitable CRMs Inhouse Reference Materials are prepared and certified against internationally certified reference materials such as CANMET and USGS standards where possible and will be externally verified at a minimum of 3 other commercial laboratories. Using these inserted quality control samples each analytical batch and complete job is rigorously reviewed and validated prior to release.”*

The author has no reason to believe that here are any issues or problems with the preparation or analyzing procedures utilized by Acme.

## 9.0 Interpretation and Conclusions

Geochemical results for the Mel Project soil samples are calculated into breakdowns of the 70<sup>th</sup>, 90<sup>th</sup>, 95<sup>th</sup>, and 97.5<sup>th</sup> percentiles for zinc (Zn) and lead (Pb) (Table 9.1). Anomalous thresholds (95<sup>th</sup> percentile) for Zn and Pb were calculated to be 155 ppm and 25 ppm, respectively. Of the 229 samples analyzed, 12 returned anomalous Zn values and 12 returned anomalous Pb values. In addition to the Zn and Pb, barium (Ba) exhibited sufficient variability in comparison to detection limit (range  $\geq 20$  times the detection limit) to permit anomaly discrimination (Table 9.1). Twelve samples returned Ba values above the 95<sup>th</sup> percentile threshold, up to a maximum value of 312 ppm Ba.

**Table 9.1. Mel Project 2012 and 1996 Soil Geochemical Sampling Summary Statistics**

	APEX 2012			Cominco 1996*	
	Zn (ppm)	Pb (ppm)	Ba (ppm)	Zn (ppm)	Pb (ppm)
<b>70<sup>th</sup> Percentile</b>	89	18	160	60	14
<b>90<sup>th</sup> Percentile</b>	118	22	191	91	19
<b>95<sup>th</sup> Percentile</b>	155	25	219	112	22
<b>97.5<sup>th</sup> Percentile</b>	193	27	234	159	26
<b>Mean</b>	86	15	145	60	13
<b>Max. Value</b>	580	54	312	839	132
<b>Min. Value</b>	22	5	50	5	4
<b>Detection Limit</b>	1	3	1	4	4
<b>Range</b>	558	49	262	835	128

\*1996 samples not analyzed for Ba

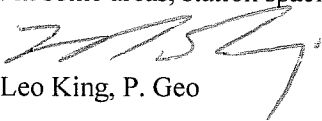
It is relevant to note that 2012 Zn values averaged 26 ppm higher than those returned during 1996. Similarly, the 2012 survey 95<sup>th</sup> percentile for Zn was 43 ppm higher than the 1996 data. A comparison of the Pb values for the two datasets reveals no significant differences; however, this may be due to the relatively low variability of Pb values in general. The cause of Zn variability is not clear; it may represent true anomalous soil variation, or possibly differences in analytical techniques used (i.e. AAS vs. ICP-ES methods). Caution should be taken when comparing the two datasets.

The Anomaly 1 grid sampling infilled and extended coverage around the two southernmost lines of the 1996 grid where five samples on two adjacent 200 m spaced lines returned values between 204 and 839 ppm Zn. Of the 41 infill soil samples collected, 6 returned values greater than the 95<sup>th</sup> percentile, extending the anomaly a further 200 m to the north for a total length of 400 m on 3 adjacent lines.

The Anomaly 2 and 3 grids provide infill soil coverage over a 1.6 m x 0.4 km north-northwest zone of sporadic 1996 Zn in soil anomalies (6 samples returning values between 112 and 223 ppm Zn). Of the 145 samples within the Anomaly 2 and 3 grids, four returned values greater than the 95<sup>th</sup> percentile of Zn. Sporadic anomalous Zn values obtained during 1996 and 2012 appear to some degree to be associated with a north-northwest trending topographic low zone, suggesting the anomaly may be the result of hydromorphic effects. However, three samples returning values from 169 to 190 ppm Zn on the northeast edge of an east trending ridgeline, in conjunction with anomalous values from the 1996 survey (5 samples returning values from between 118 to 195 ppm Zn) define a west-northwest trending anomaly along the north side of the ridge

The Anomaly 4 grid was designed to further define an apparent northeast –trending four-sample anomaly (136 to 444 ppm Zn over 3 lines). Of the 43 samples collected within the Anomaly 4 grid, two samples returned greater than the 95<sup>th</sup> percentile for Zn (157 and 179 ppm Zn). The 2012 infill sampling does not confirm the apparent northeast trend suggested by the 1996 data, however it does extend the zone of anomalous values north a further 100 m; now suggesting a north-northeast orientation parallel to regional geologic trends.

Results from the 2012 soil program confirm the presence of elevated zinc in soil values in the north-south trending Jeri North Zone, as previously identified in the original 1996 soil grid. Lead values were typically low, however weakly elevated values consistent with those seen in the 1996 data were observed. The 2012 program also increased the resolution of the soil geochemical coverage within the sampled areas, allowing for improved anomaly discrimination. Line spacing was increased from 200 m to 100 m, and in some areas, station spacing was improved from 50 m to 25 m.



H. Leo King, P. Geo

February 18, 2013

## 10.0 Statement of Qualifications

### STATEMENT OF QUALIFICATIONS CERTIFICATE

I, H. Leo King, of 4747 Marguerite Street, Vancouver, British Columbia do hereby certify that:

I am a geologist and a graduate of the University of Saskatchewan, B.A. (Geology) 1961, M.A. (Geology) 1965.

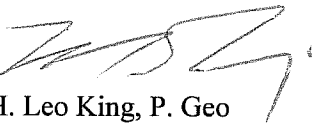
I am a member of the Association of Professional Engineers and Geoscientists of B.C. and a member of the Association of Professional Engineers of Ontario.

I am a Fellow of the Geological Association of Canada.

I have practiced my profession for over 45 years.

This report is based on work which was carried out by Apex Geoscience Ltd. and my knowledge of the Mel Property I gained during my direct involvement over a period of more than 30 years.

I am currently engaged by Kobex Minerals Inc. as a consultant to the Company.



H. Leo King, P. Geo

## 11.0 Statement of Expenditures

The following services were charged to Kobex Minerals Inc. by Trans North Helicopters, Apex Geoscience Ltd. and Acme Analytical Laboratories (Vancouver) Ltd. in connection with a soil geochemical survey on the Mel property. The survey dates were August 26, 2012 to September 1, 2012.

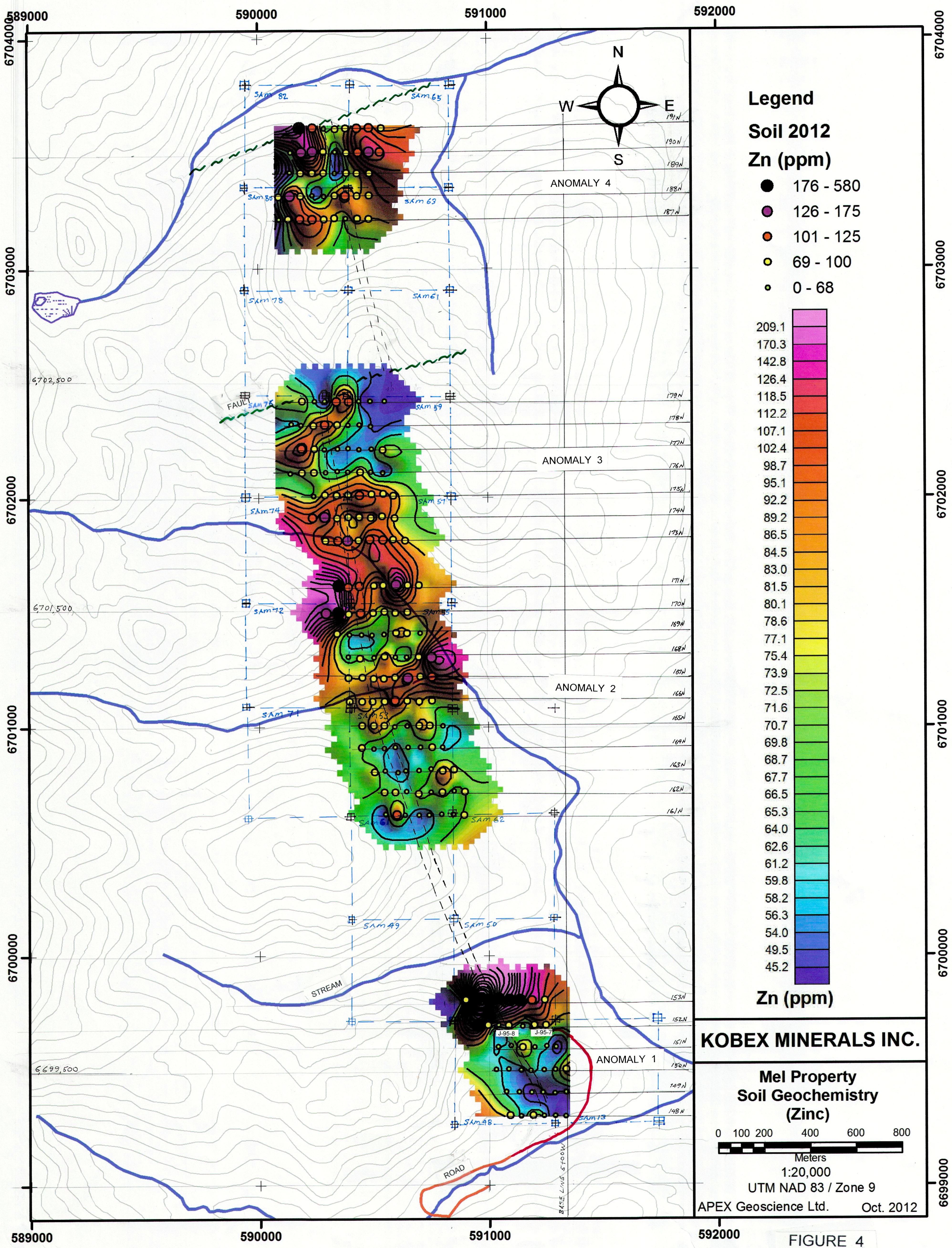
Supplier	Invoice No.	Year	Type of Work	Dates Work Performed	Amount			
Trans North Helicopters	909	2012	Moving Personnel & Equipment	Aug 26-31,2012	7,052.20			
				GST	352.61			
	991	2012	Moving Personnel & Equipment	Sept 1, 2012	3,404.80			
				GST	170.24			
<b>TOTAL Trans North Helicopters</b>					<b>10,979.85</b>			
Apex Geoscience Ltd.	2012-522	2012	Office work, Project planning, Field preparation, maps, logistics, Data analysis	July 22-Sept 21, 2012	7,758.25			
			Field work & Salaries	Aug 26-Sept 1, 2012	6,475.00			
			Camp & Equipment rental, Supplies	Aug 26-Sept 1, 2012	1,457.87			
			Food	Aug 26-Sept 1, 2012	615.80			
			Accommodation	Aug 31-Sept 1, 2012	235.00			
			Fuel (817.72 x 70%)	Aug 26-Sept 1, 2012	572.40			
			Shipping Equipment & Samples	Aug 17-Sept 7, 2012	1,030.23			
			Operators Management fee (\$2,000 x 70%)	Aug 26-Sept 1, 2012	1,400.00			
							SUBTOTAL	19,544.55
							GST (5%)	977.23
			<b>TOTAL from Apex 2012-522 INVOICE</b>					<b>20,521.78</b>
			Apex Geoscience Ltd.	2012-595	2012	Report Writing	Sept 22-Oct 21, 2012	472.25
<b>TOTAL from Apex 2012-595 INVOICE</b>						<b>495.86</b>		
Acme Labs	VANI 144533	2012	Sample Analyses	Sept 19, 2012	2,805.25			
							BC HST	336.63
			<b>TOTAL ACME INVOICE</b>					<b>3,141.88</b>
<b>TOTAL EXPENSES – SOIL GEOCHEMICAL SURVEY</b>					<b>35,139.37</b>			

Prepared by H. Leo King

December 19, 2012

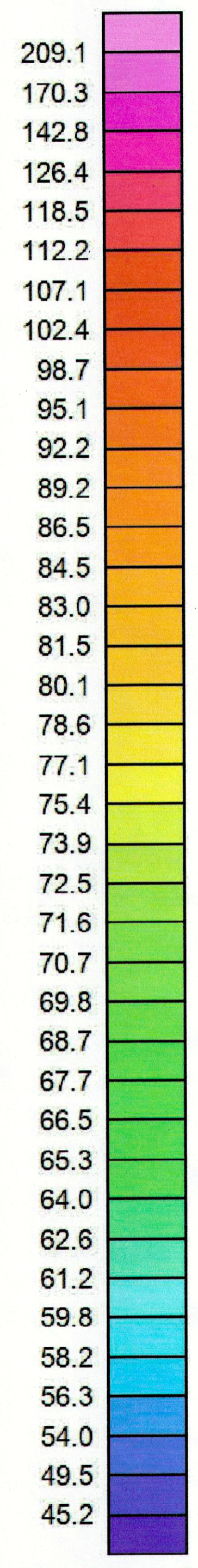
## 12.0 References

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**Legend**  
**Soil 2012**  
**Zn (ppm)**

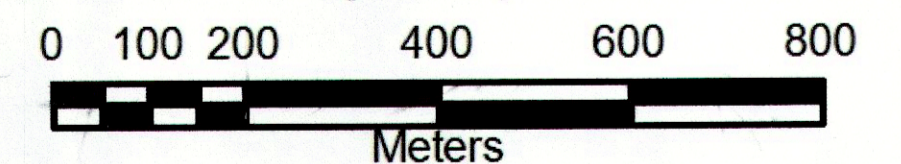
- 176 - 580
- 126 - 175
- 101 - 125
- 69 - 100
- 0 - 68



Zn (ppm)

**KOBEX MINERALS INC.**

**Mel Property**  
**Soil Geochemistry**  
**(Zinc)**



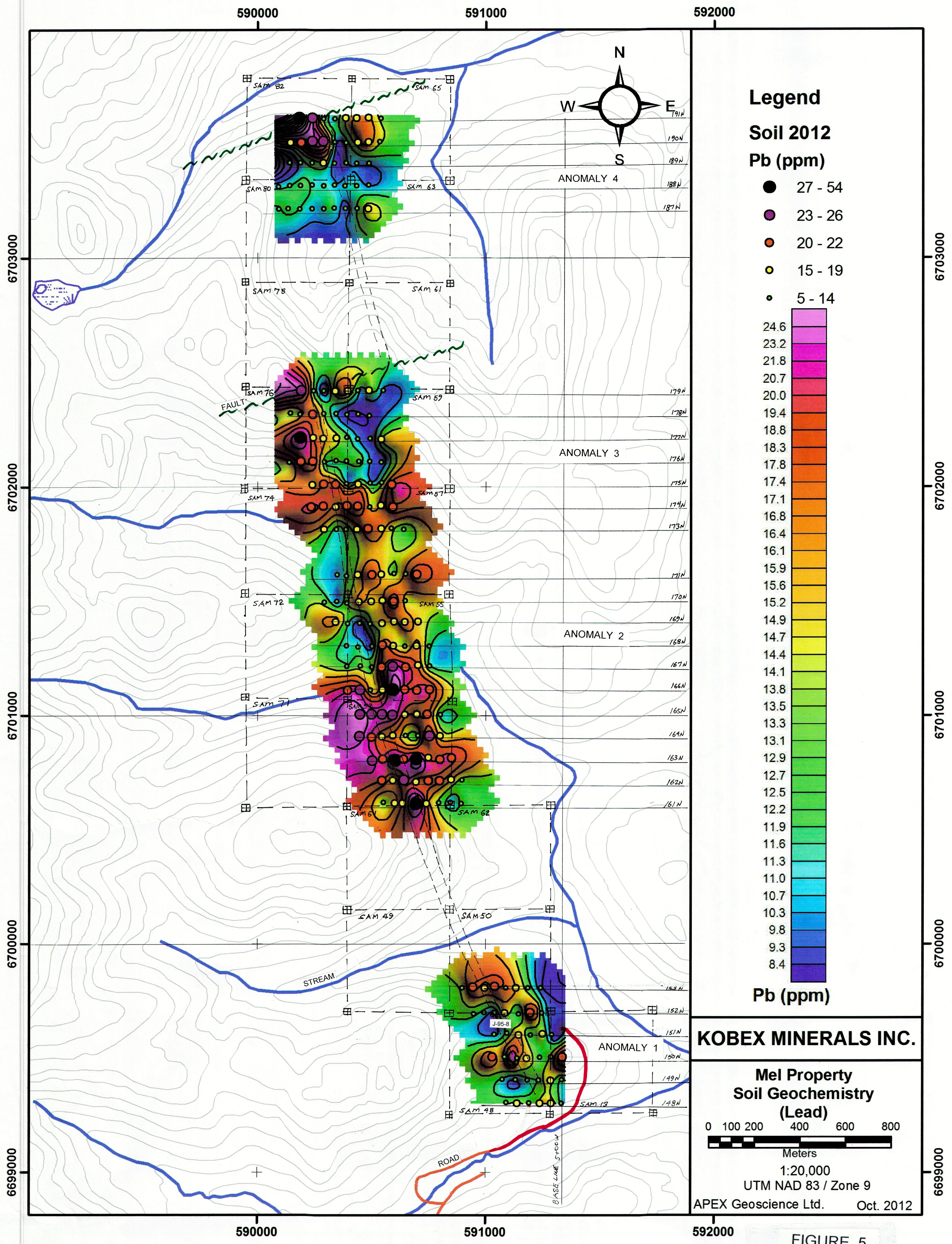
1:20,000

UTM NAD 83 / Zone 9

APEX Geoscience Ltd.

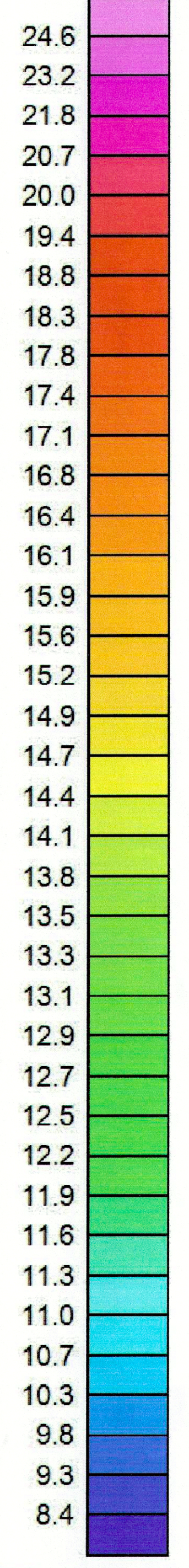
Oct. 2012

FIGURE 4



**Legend**  
**Soil 2012**  
**Pb (ppm)**

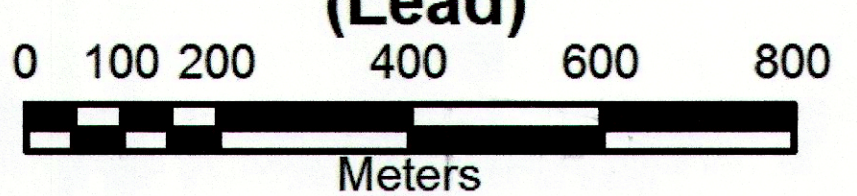
- 27 - 54
- 23 - 26
- 20 - 22
- 15 - 19
- 5 - 14



Pb (ppm)

**KOBEX MINERALS INC.**

**Mel Property**  
**Soil Geochemistry**  
**(Lead)**



1:20,000

UTM NAD 83 / Zone 9

APEX Geoscience Ltd. Oct. 2012

FIGURE 5

APPENDIX A - SOIL SAMPLE ANALYSES (34 ELEMENTS)

Sample_ID	X_n8329	Y_n8329	Mo_ppm	Pb_ppm	Zn_ppm	Ag_ppm	Ni_ppm	Co_ppm	Mn_ppm	Fe_ppm	As_ppm	Au_ppm	Th_ppm	Sr_ppm	Cd_ppm	Sb_ppm	Bi_ppm	V_ppm	Ca_perc	P_perc	La_ppm	Cr_ppm	Mg_perc	Ba_ppm	Tl_perc	B_ppm	Al_perc	Na_perc	K_perc	W_ppm	Tl_ppm	Hg_ppm	Ga_ppm	S_perc	Sc_ppm		
12PHS101	590996	6699807	-1	7	17	449	0	13	10	467	3	14	-2	-2	10	1	-3	-3	37	1	0	11	17	1	126	0	-20	2	0	0	-2	-5	-1	7	0	-5	
12PHS102	590946	6699810	-1	9	19	580	0	13	10	1565	5	14	-2	-2	16	3	-3	-3	51	1	0	13	19	0	195	0	-20	1	0	0	-2	-5	-1	7	0	-5	
12PHS103	590994	6699808	-1	7	11	97	0	15	7	138	2	10	-2	-2	30	-1	-3	-3	17	0	0	13	18	1	162	0	-20	1	0	0	-2	-5	-1	7	0	-5	
12PHS104	591040	6699808	-1	4	8	68	0	14	6	150	2	6	-2	-2	3	7	-1	-3	37	0	0	13	20	0	155	0	-20	1	0	0	-2	-5	-1	7	0	-5	
12PHS105	591095	6699808	-1	7	12	59	0	21	7	276	3	11	-2	-2	5	8	-1	-3	-3	29	0	0	14	20	0	121	0	-20	1	0	0	-2	-5	-1	6	0	-5
12PHS106	591085	6699806	-1	6	14	57	0	15	7	153	2	8	-2	-2	3	8	-1	-3	-3	22	0	0	13	15	0	131	0	-20	1	0	0	-2	-5	-1	6	0	-5
12PHS108	591131	6699406	-1	6	9	56	0	18	6	163	2	9	-2	-2	4	7	-1	-3	-3	23	0	0	14	18	0	105	0	-20	1	0	0	-2	-5	-1	5	0	-5
12PHS109	591184	6699404	-1	6	12	39	0	14	7	268	2	8	-2	-2	3	9	-1	-3	-3	18	0	0	11	14	0	87	0	-20	1	0	0	-2	-5	-1	5	0	-5
12PHS110	591234	6699404	-1	7	12	50	0	18	7	325	3	8	-2	-2	5	9	-1	-3	-3	25	0	0	22	20	0	155	0	-20	1	0	0	-2	-5	-1	7	0	-5
12PHS111	591286	6699402	-1	9	16	52	0	17	8	284	2	11	-2	-2	5	10	-1	-3	-3	21	0	0	20	16	0	117	0	-20	1	0	0	-2	-5	-1	7	0	-5
12PHS112	591335	6699406	-1	7	11	46	0	16	6	197	2	8	-2	-2	3	6	-1	-3	-3	26	0	0	14	17	0	124	0	-20	1	0	0	-2	-5	-1	6	0	-5
12PHS113	591336	6699506	-1	10	22	91	0	26	12	144	3	17	-2	-2	5	6	-1	-3	-3	27	0	0	17	22	0	180	0	-20	2	0	0	-2	-5	-1	5	0	-5
12PHS114	591291	6699602	-1	6	6	35	0	6	2	151	1	7	-2	-2	4	1	-3	-3	28	0	0	12	9	0	50	0	-20	1	0	0	-2	-5	-1	5	0	-5	
12PHS115	591250	6699606	-1	8	16	62	0	22	8	373	3	12	-2	-2	17	-1	-3	-3	46	1	0	23	22	0	142	0	-20	1	0	0	-2	-5	-1	6	0	-5	
12PHS116	591198	6699601	-1	6	11	63	0	19	9	204	3	9	-2	-2	11	-1	-3	-3	23	0	0	18	26	0	155	0	-20	2	0	0	-2	-5	-1	8	0	-5	
12PHS117	591196	6699608	-1	10	22	82	0	24	15	258	5	21	-2	-2	6	8	-1	-3	-3	47	0	0	12	23	0	188	0	-20	2	0	0	-2	-5	-1	5	0	-5
12PHS118	591247	6699697	-1	9	12	86	0	19	8	406	2	9	-2	-2	17	-1	-3	-3	29	1	0	16	20	0	132	0	-20	1	0	0	-2	-5	-1	6	0	-5	
12PHS119	591242	6699807	-1	6	8	97	0	16	5	102	2	9	-2	-2	3	5	-1	-3	-3	22	0	0	13	16	0	129	0	-20	1	0	0	-2	-5	-1	5	0	-5
12PHS120	591186	6699806	-1	5	13	112	0	16	6	113	3	10	-2	-2	5	11	-1	-3	-3	24	0	0	16	20	0	183	0	-20	2	0	0	-2	-5	-1	6	0	-5
12PHS121	591133	6699806	-1	9	16	201	0	20	7	272	3	13	-2	-2	12	1	-3	-3	33	0	0	12	22	0	116	0	-20	1	0	0	-2	-5	-1	7	0	-5	
12PHS122	591090	6699806	-1	6	13	202	0	19	8	241	2	10	-2	-2	3	11	1	-3	-3	32	0	0	16	21	1	126	0	-20	1	0	0	-2	-5	-1	6	0	-5
12PHS201	590744	6701006	-1	10	19	80	0	28	6	317	2	11	-2	-2	4	10	-1	-3	-3	23	0	0	16	24	0	171	0	-20	1	0	0	-2	-5	-1	5	0	-5
12PHS202	590698	6701006	-1	9	18	85	0	22	7	136	2	12	-2	-2	4	9	-1	-3	-3	31	0	0	22	20	0	177	0	-20	1	0	0	-2	-5	-1	5	0	-5
12PHS203	590646	6701004	-1	7	18	62	0	16	6	165	2	10	-2	-2	4	14	-1	-3	-3	25	2	0	19	16	1	154	0	-20	1	0	0	-2	-5	-1	5	0	-5
12PHS204	590592	6701002	-1	9	24	68	0	15	6	586	2	12	-2	-2	20	1	-3	-3	29	2	0	17	17	1	288	0	-20	1	0	0	-2	-5	-1	5	0	-5	
12PHS205	590546	6701006	-1	9	23	80	0	20	7	623	2	15	-2	-2	14	-1	-3	-3	27	1	0	17	17	1	159	0	-20	1	0	0	-2	-5	-1	5	0	-5	
12PHS206	590501	6701006	-1	9	23	91	0	17	8	499	2	11	-2	-2	20	1	-3	-3	26	2	0	15	17	1	174	0	-20	1	0	0	-2	-5	-1	5	0	-5	
12PHS207	590449	6701006	-1	12	26	70	0	24	9	305	2	15	-2	-2	25	1	-3	-3	23	4	0	14	15	2	231	0	-20	1	0	0	-2	-5	-1	7	0	-5	
12PHS208	590549	6700809	-1	10	19	60	0	21	8	337	2	14	-2	-2	3	18	-1	-3	-3	26	2	0	19	17	1	100	0	-20	1	0	0	-2	-5	-1	5	0	-5
12PHS209	590594	6700716	-1	15	15	69	0	24	9	266	2	15	-2	-2	16	-1	-3	-3	29	1	0	17	20	1	139	0	-20	1	0	0	-2	-5	-1	7	0	-5	
12PHS210	590642	6700718	-1	18	23	56	0	18	7	454	2	15	-2	-2	29	-1	-3	-3	22	4	0	22	15	3	97	0	-20	1	0	0	-2	-5	-1	5	0	-5	
12PHS211	590695	6700709	-1	14	17	77	0	17	7	552	2	11	-2	-2	24	1	-3	-3	23	2	0	13	16	1	159	0	-20	1	0	0	-2	-5	-1	5	0	-5	
12PHS212	590749	6700715	-1	13	19	68	0	17	7	554	2	10	-2	-2	20	-1	-3	-3	24	1	0	14	17	0	155	0	-20	1	0	0	-2	-5	-1	5	0	-5	
12PHS213	590798	6700715	-1	14	19	75	0	17	8	560	2	12	-2	-2	23	1	-3	-3	25	1	0	18	21	3	104	0	-20	1	0	0	-2	-5	-1	5	0	-5	
12PHS214	590849	6700720	-1	11	16	65	0	17	7	473	2	12	-2	-2	22	-1	-3	-3	23	3	0	14	16	2	112	0	-20	1	0	0	-2	-5	-1	5	0	-5	
12PHS215	590897	6700717	-1	9	13	71	0	21	7	374	2	13	-2	-2	10	-1	-3	-3	27	0	0	14	19	0	129	0	-20	1	0	0	-2	-5	-1	5	0	-5	
12PHS216	590850	6700814	-1	11	21	71	0	24	9	483	3	15	-2	-2	3	9	1	-3	-3	27	0	0	18	20	0	145	0	-20	1	0	0	-2	-5	-1	5	0	-5
12PHS217	590800	6700808	-1	9	21	92	0	22	7	302	3	15	-2	-2	5	12	-1	-3	-3	25	1	0	34	21	1	142	0	-20	1	0	0	-2	-5	-1	7	0	6
12PHS218	590697	6700810	-1	10	28	65	0	28	9	350	3	18	-2	-2	6	12	-1	-3	-3	28	1	0	24	26	0	191	0	-20	2	0	0	-2	-5	-1	6	0	5
12PHS219	590696	6700802	-1	11	27	54	0	27	7	357	2	14	-2	-2	30	-1	-3	-3	27	0	0	18	21	0	156	0	-20	1	0	0	-2	-5	-1	5	0	-5	
12PHS220	590698	6701111	-1	14	21	83	0	26	9	326	3	16	-2	-2	3	16	-1	-3	-3	29	0	0	20	21	1	185	0	-20	1	0	0	-2	-5	-1	6	0	-5
12PHS221	590704	6701220	-1	11	18	96	0	12	4	121	1	5	-2	-2	32	1	-3	-3	24	1	0	11	11	2	206	0	-20	1	0	0	-2	-5	-1	5	0	-5	
12PHS222	590696	6701306	-1	18	18	88	0	25	9	342	2	12	-2	-2	29	1	-3	-3	24	2	0	17	20	1	312	0	-20	1	0	0	-2	-5	-1	5	0	-5	
12PHS223	590646	6701409	-1	12	18	85	0	26	8	509	3	14	-2	-2	6	12	-1	-3	-3	27	0	0	23	21	0	175	0	-20	1	0	0	-2	-5	-1	6	0	-5
12PHS224	590647	6701501	-1	12	14	84	0	15	5	201	2	10	-2	-2	23	-1	-3	-3	17	2	0	12	13	1	110	0	-20	1	0	0	-2	-5	-1	5	0	-5	
12PHS225	590696	6701498	-1	13	21	75	0	17	8	336	2	14	-2	-2	3	70	-1	-3	-3	18	8	0	14	13	3	104	0	-20	1	0	0	-2	-5	-1	5	0	-5
12PHS226																																					

APPENDIX A - SOIL SAMPLE ANALYSES (34 ELEMENTS)

12CLS304	590491	6702112	-1	7	10	59	0	19	6	151	2	8	-2	3	8	-1	-3	-3	27	0	0	16	19	0	110	0	-20	1	0	0	-2	-5	-1	7	0	-5
12CLS305	590494	6702212	-1	4	7	56	0	8	3	97	1	5	-2	-2	4	-1	-3	-3	28	0	0	14	12	0	64	0	-20	1	0	0	-2	-5	-1	7	0	-5
12CLS306	590490	6702312	-1	5	8	46	0	13	5	120	2	8	-2	-2	5	-1	-3	-3	28	0	0	15	16	0	80	0	-20	1	0	0	-2	-5	-1	7	0	-5
12CLS307	590441	6702318	-1	5	8	67	0	13	5	245	2	7	-2	-2	5	-1	-3	-3	28	0	0	14	16	0	114	0	-20	1	0	0	-2	-5	-1	5	0	-5
12CLS308	590392	6702317	-1	5	7	63	0	13	4	138	2	8	-2	-2	7	-1	-3	-3	26	0	0	11	15	0	117	0	-20	1	0	0	-2	-5	-1	7	0	-5
12CLS309	590344	6702319	-1	5	10	81	0	16	6	205	2	8	-2	2	7	-1	-3	-3	31	0	0	12	19	0	108	0	-20	1	0	0	-2	-5	-1	7	0	-5
12CLS310	590290	6702319	-1	7	14	102	0	14	6	382	2	9	-2	-2	7	1	-3	-3	29	0	0	13	17	0	127	0	-20	1	0	0	-2	-5	-1	7	0	-5
12CLS311	590242	6702316	2	8	19	93	0	20	9	567	3	16	-2	-2	8	1	-3	-3	37	1	0	16	21	0	122	0	-20	1	0	0	-2	-5	-1	7	0	-5
12CLS312	590187	6702316	-1	9	14	57	0	21	9	633	3	22	-2	-2	12	-1	-3	-3	32	2	0	14	19	1	100	0	-20	1	0	0	-2	-5	-1	8	0	-5
12CLS313	590145	6702321	-1	11	13	58	0	15	6	722	2	9	-2	-2	19	1	-3	-3	26	2	0	16	15	1	117	0	-20	1	0	0	-2	-5	-1	5	0	-5
12CLS314	590188	6702214	2	8	27	119	0	24	12	1456	5	41	-2	-2	11	1	-3	-3	53	2	0	17	26	1	150	0	-20	2	0	0	-2	-5	-1	8	0	-5
12CLS315	590139	6702106	-1	7	14	64	0	19	8	480	2	10	-2	6	7	-1	-3	-3	32	0	0	20	20	0	140	0	-20	1	0	0	-2	-5	-1	7	0	-5
12CLS316	590191	6702109	-1	7	20	73	0	21	7	458	3	19	-2	4	9	-1	-3	-3	33	1	0	22	20	1	119	0	-20	1	0	0	-2	-5	-1	8	0	-5
12CLS317	590243	6702111	1	12	21	77	0	27	10	740	3	26	-2	5	10	-1	-3	-3	29	0	0	26	19	1	221	0	-20	1	0	0	-2	-5	-1	5	0	6
12CLS318	590294	6702110	-1	12	11	64	0	15	7	350	1	5	-2	4	88	-1	-3	-3	12	10	0	12	10	3	65	0	-20	1	0	0	-2	-5	-1	5	0	-5
12CLS319	590344	6702115	-1	7	12	60	0	13	5	251	2	10	-2	-2	10	-1	-3	-3	27	0	0	11	14	0	121	0	-20	1	0	0	-2	-5	-1	7	0	-5
12CLS320	590390	6702113	-1	11	12	63	0	14	6	405	2	9	-2	-2	35	1	-3	-3	15	6	0	12	11	3	79	0	-20	1	0	0	-2	-5	-1	5	0	-5
12CLS321	590441	6702011	-1	10	18	117	0	19	7	663	2	10	-2	-2	16	1	-3	-3	23	1	0	23	18	1	162	0	-20	1	0	0	-2	-5	-1	6	0	-5
12CLS322	590390	6702013	-1	4	8	97	0	9	4	106	2	6	-2	3	4	-1	-3	-3	30	0	0	12	14	0	127	0	-20	1	0	0	-2	-5	-1	6	0	-5
12CLS323	590342	6702010	-1	10	21	99	0	18	7	390	2	14	-2	-2	27	1	-3	-3	22	4	0	23	17	2	123	0	-20	1	0	0	-2	-5	-1	6	0	-5
12CLS324	590290	6702012	-1	9	19	89	0	20	8	406	3	13	-2	5	17	1	-3	-3	28	4	0	24	21	2	165	0	-20	2	0	0	-2	-5	-1	5	0	5
12CLS325	590241	6702008	1	11	15	66	0	21	8	235	3	14	-2	5	6	-1	-3	-3	31	0	0	15	19	0	141	0	-20	1	0	0	-2	-5	-1	5	0	-5
12CLS326	590236	6701912	-1	7	21	104	0	16	8	944	3	18	-2	-2	12	1	-3	-3	32	1	0	14	18	0	161	0	-20	1	0	0	-2	-5	-1	5	0	-5
12CLS327	590289	6701915	-1	33	20	127	0	22	8	476	2	18	-2	-2	31	1	-3	-3	17	3	0	15	16	1	185	0	-20	1	0	0	-2	-5	-1	5	0	-5
12CLS328	590292	6701813	-1	15	15	90	0	17	6	352	2	10	-2	-2	26	1	-3	-3	20	5	0	13	14	3	141	0	-20	1	0	0	-2	-5	-1	5	0	-5
12CLS329	590346	6701813	-1	8	10	103	0	16	7	370	2	8	-2	-2	11	-1	-3	-3	33	0	0	13	20	0	179	0	-20	1	0	0	-2	-5	-1	5	0	-5
12CLS401	590094	6703213	-1	11	12	50	0	15	7	542	2	7	-2	-2	45	1	-3	-3	21	2	0	11	14	0	152	0	-20	1	0	0	-2	-5	-1	7	0	-5
12CLS402	590135	6703215	-1	12	13	72	0	18	8	459	2	9	-2	-2	18	-1	-3	-3	25	1	0	15	17	1	120	0	-20	1	0	0	-2	-5	-1	5	0	-5
12CLS403	590186	6703214	1	4	12	103	0	14	5	139	3	9	-2	3	5	-1	-3	-3	43	0	0	15	20	0	102	0	-20	1	0	0	-2	-5	-1	5	0	-5
12CLS404	590239	6703215	-1	6	10	106	0	16	6	426	2	7	-2	-2	10	-1	-3	-3	32	0	0	14	19	0	182	0	-20	1	0	0	-2	-5	-1	5	0	-5
12CLS405	590290	6703215	-1	6	11	87	0	16	6	277	2	8	-2	-2	10	-1	-3	-3	29	0	0	13	18	0	146	0	-20	1	0	0	-2	-5	-1	5	0	-5
12CLS406	590336	6703219	-1	8	13	79	0	17	6	304	2	10	-2	-2	12	-1	-3	-3	28	1	0	14	18	0	146	0	-20	1	0	0	-2	-5	-1	5	0	-5
12CLS407	590385	6703218	-1	5	8	65	0	11	4	172	2	6	-2	-2	10	-1	-3	-3	25	0	0	9	14	0	131	0	-20	1	0	0	-2	-5	-1	5	0	-5
12CLS408	590436	6703218	-1	11	12	91	0	20	6	282	2	9	-2	-2	16	-1	-3	-3	26	1	0	13	17	0	154	0	-20	1	0	0	-2	-5	-1	5	0	-5
12CLS409	590485	6703216	1	11	16	78	0	17	6	188	3	16	-2	-2	4	-1	-3	-3	30	0	0	13	16	0	82	0	-20	1	0	0	-2	-5	-1	5	0	-5
12CLS410	590489	6703414	1	7	10	92	0	19	6	145	2	11	-2	3	8	-1	-3	-3	32	0	0	13	19	0	121	0	-20	1	0	0	-2	-5	-1	5	0	-5
12CLS411	590434	6703414	-1	4	9	75	0	12	4	101	2	8	-2	-2	6	-1	-3	-3	29	0	0	12	15	0	103	0	-20	1	0	0	-2	-5	-1	5	0	-5
12CLS412	590388	6703416	1	5	12	72	0	12	4	152	2	8	-2	-2	6	-1	-3	-3	34	0	0	12	17	0	101	0	-20	1	0	0	-2	-5	-1	5	0	-5
12CLS413	590338	6703414	-1	4	5	37	0	6	3	120	1	5	-2	-2	4	-1	-3	-3	22	0	0	15	8	0	65	0	-20	1	0	0	-2	-5	-1	5	0	-5
12CLS414	590288	6703416	2	9	16	81	0	17	7	240	3	16	-2	-2	8	-1	-3	-3	34	0	0	16	17	0	123	0	-20	1	0	0	-2	-5	-1	5	0	-5
12CLS415	590240	6703416	-1	8	12	89	0	18	6	257	2	11	-2	-2	11	-1	-3	-3	29	0	0	12	18	0	132	0	-20	1	0	0	-2	-5	-1	5	0	-5
12CLS416	590188	6703415	1	9	11	71	0	26	8	221	2	12	-2	4	8	-1	-3	-3	35	0	0	16	21	0	160	0	-20	1	0	0	-2	-5	-1	5	0	-5
12CLS417	590142	6703416	-1	4	7	46	0	11	4	109	2	5	-2	-2	4	-1	-3	-3	35	0	0	10	16	0	134	0	-20	1	0	0	-2	-5	-1	5	0	-5
12CLS418	590290	6703609	-1	9	13	60	0	9	4	424	1	7	-2	-2	29	1	-3	-3	12	6	0	8	8	3	100	0	-20	1	0	0	-2	-5	-1	5	0	-5
12CLS419	590386	6703611	-1	7	15	74	0	15	6	330	2	10	-2	-2	13	1	-3	-3	26	1	0	12	16	0	133	0	-20	1	0	0	-2	-5	-1	5	0	-5
12CLS420	590487	6703613	1	8	17	112	0	23	9	548	3	12	-2	-2	17	1	-3	-3	29	1	0	16	22	0	145	0	-20	2	0	0	-2	-5	-1	5	0	-5