



Ministry of Energy and Mines  
BC Geological Survey

**ASSESSMENT REPORT  
TITLE PAGE AND SUMMARY**

**TITLE OF REPORT [type of survey(s)]** **TOTAL COST**  
REPORT ON THE 2014 SOIL SAMPLING AND PROSPECTING PROGRAM AT THE ENGINEER MINE PROPERTY \$9,896.71

AUTHOR(S) Bruce Coates SIGNATURE(S) Bruce Coates

Digitally signed by Bruce Coates  
DN: cn=Bruce Coates, o=Core Assets Consulting, ou=SmartSource, email=bruce.coates@bcgs.com, c=CA  
Date: 2015.09.23 08:53:23 -0700

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S) N/A YEAR OF WORK \_\_\_\_\_

STATEMENT OF WORK - CASH PAYMENT EVENT NUMBER(S)/DATE(S) Year of work: 2014, Event number: 5519831  
Dates of work: August 28 - 31st, 2014

PROPERTY NAME Engineer Mine Property

CLAIM NAME(S) (on which work was done) 411094 (Hope-1), DL-20 (Crown Grant)

COMMODITIES SOUGHT Au, Ag

MINERAL INVENTORY MINFILE NUMBER(S), IF KNOWN 104M 014

MINING DIVISION Atlin Mining Division NTS 104 M/08E

LATITUDE 59 ° 29 ' 05 " LONGITUDE 134 ° 14 ' 00 " (at centre of work)

OWNER(S)  
1) BCGold Corporation 2) Blind Creek Resources Ltd.

MAILING ADDRESS  
520 - 800 West Pender St. 1500 - 675 West Hastings St.  
Vancouver, BC, V6C 2V6 Vancouver, BC, V6B 1N2

OPERATOR(S) [who paid for the work]  
1) BCGold Corporation 2) \_\_\_\_\_

MAILING ADDRESS  
520 - 800 West Pender St.  
Vancouver, BC, V6C 2V6

PROPERTY GEOLOGY KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude):  
Labarge Group, Llewellyn Fault, Eocene, Sloko Volcanics, Epithermal Vein, Low-Sulphidation,

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS \_\_\_\_\_  
31909, 17253, 7923

TYPE OF WORK IN THIS REPORT <b>Soil Sampling</b>	EXTENT OF WORK (IN METRIC UNITS) 15.5 line km	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
<b>GEOLOGICAL (scale, area)</b>			
Ground, mapping _____			
Photo interpretation _____			
<b>GEOPHYSICAL (line-kilometres)</b>			
Ground			
Magnetic _____			
Electromagnetic _____			
Induced Polarization _____			
Radiometric _____			
Seismic _____			
Other _____			
Airborne _____			
<b>GEOCHEMICAL</b> (number of samples analysed for ...)		<b>55</b>	
Soil _____			
Silt _____			
Rock _____		<b>1</b>	
Other _____			
<b>DRILLING</b> (total metres; number of holes, size)			
Core _____			
Non-core _____			
<b>RELATED TECHNICAL</b>			
Sampling/assaying _____			
Petrographic _____			
Mineralographic _____			
Metallurgic _____			
<b>PROSPECTING (scale, area)</b> _____		<b>1:4,000, 3.1 km<sup>2</sup></b>	
<b>PREPARATORY/PHYSICAL</b>			
Line/grid (kilometres) _____			
Topographic/Photogrammetric (scale, area) _____			
Legal surveys (scale, area) _____			
Road, local access (kilometres)/trail _____			
Trench (metres) _____			
Underground dev. (metres) _____			
Other _____			
			<b>TOTAL COST 9,896.71</b>



TSX-V: BCG

**BC Geological Survey  
Assessment Report  
35053**

REPORT ON THE  
2014 SOIL SAMPLING AND PROSPECTING PROGRAM  
AT THE  
ENGINEER MINE PROPERTY  
TAGISH LAKE AREA  
ATLIN MINING DIVISION  
BRITISH COLUMBIA

LOCATED: 59° 29' N, 134° 14' W  
NTS 104M/08 & 09

FOR: BCGOLD CORPORATION  
1400–625 Howe St.  
Vancouver, BC, V6C 2T6

BY: Bruce Coates, B.Sc. P. Geo.

WORK PERFORMED: August 21<sup>st</sup> – August 24<sup>th</sup>, 2014

REPORT DATE: November 15, 2014

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## SUMMARY

The Engineer Mine Property of BCGold Corporation (BCGold) comprises mineral rights on six crown grants and three claims staked by the company as well as five claims optioned from Guardsmen Resources Inc. and nine claims optioned from Blind Creek Resources Ltd. The property is situated in the northwest corner of B.C. on the western slopes of Engineer Mountain at the south end of Tagish Lake, and covers the underground workings of the Old Engineer Mine and several other small nearby gold prospects. It lies within the traditional territory of both the Carcross-Tagish and Taku River Tlingit First Nations. Access is by helicopter, float plane or boat from Atlin, B.C., 32 km to the east, or boat/barge from Carcross/Tagish in the Yukon 80 km to the north.

Historically, the discovery of the Engineer Mine dates back to 1899, and up to the present has been the most important auriferous vein occurrence in the region. Mining operations between 1913-1918 and 1925-1927 produced at least 560 kg gold (18,000oz) and 280 kg silver (9,000 oz) with an average grade of approximately 36 g/t gold and 18 g/t silver. Workings from that era include 8 levels at about 100 foot intervals connected by a shaft and the 5 Level crosscut, but the lowest 3 levels flooded shortly after production ceased. Sporadic mining by high graders continued over the next 50 years as ownership changed hands numerous times. In 1987 Erickson Gold Mines did a substantial surface exploration program which included VLF, Mag, Soil Geochemistry and Diamond Drilling. During the 1990's the Engineer Mining Corporation (EMC) brought a small 30 tpd mill and a 10 man camp to the property and re-opened the underground workings for bulk sampling in a number of areas for several years.

Work by BCGold Corporation began when they optioned the central Crown Grants from Engineer Mining Corporation in 2007. That year and in 2008 detailed geological mapping was conducted on surface and 5 level which included channel sampling underground, and a surface diamond drill program (6 holes, 1846 meters) targeting Shear A. In 2010 a two-phase underground drill program from 5 Level (13 holes, 1218 meters) targeted the Engineer and Double Decker Veins. Later that year the Guardsmen claims were optioned and in 2011 a helicopter-borne Magnetic/Resistivity survey was conducted along with geological mapping, prospecting and rock sampling over the enlarged property. Closer to the Mine site numerous trenches were reopened for sampling, 5 areas underground were bulk mined and milled, and 70 oz. of gold were recovered. During 2012 BCGold conducted more mapping and sampling, including Mobile Metal Ion (MMI) sampling in selected areas of the larger property. Nearer the Mine, MMI sampling was also done, along with the de-watering of 6 and 7 Levels to allow geological mapping and sampling of the Engineer Vein. In 2013 BCGold optioned 9 Claims from Blind Creek which cover the southward extension of Shear A.

The 2014 prospecting and Soil Geochemical program had four objectives: 1/ a preliminary evaluation of the Blind Creek Claims especially along the gulley where Shear A extends toward the south, 2/ investigate the usefulness of soil sampling and compare it to data collected in previous soil and MMI surveys, 3/ investigate the cause of the discrete airborne magnetic anomaly which lies to

the east of the Shear-A gully, and 4/ investigate the cause of the airborne resistivity high lying to the west of the Shear-A gully.

The area investigated by this program uncovered no outcrop in or east of the Shear-A gully which widens and becomes less distinct. On the west rim of the gully a steep cliff face of argillite showed no evidence of mineralization or shearing. It is recommended that prospecting be extended to the south and east into an area where outcrop was noted in the distance. With the abundance of talus, it is difficult to recommend further soil geochemistry there. The MMI survey of 2012 does not appear to have worked any better than the soil survey of 2014, however the density of data (10 meter spacing), might allow for better discrimination along the length of the Shear-A target, and might upgrade certain portions of it for drilling. Increased sample density would certainly be necessary for discovery of any new narrow vein target. The Airborne Magnetic High is almost certainly due to a particular phase of the Engineer Stock. Several intrusive phases found as angular, magnetic float in soil pits during this program in an area where the magnetic anomaly is of lower value and less discrete, suggest that another phase that is *more* magnetic is directly responsible for the anomaly, and yet to be discovered. The Airborne Resistivity High was not specifically explained during the program. The anomaly coincides with a very well drained, dry, rocky ridge which may be the cause.



**REPORT ON THE**  
**2014 SOIL SAMPLING PROGRAM**  
**AT THE**  
**ENGINEER MINE PROPERTY**  
**TAGISH LAKE AREA**  
**ATLIN MINING DIVISION**  
**BRITISH COLUMBIA**

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**Introduction**

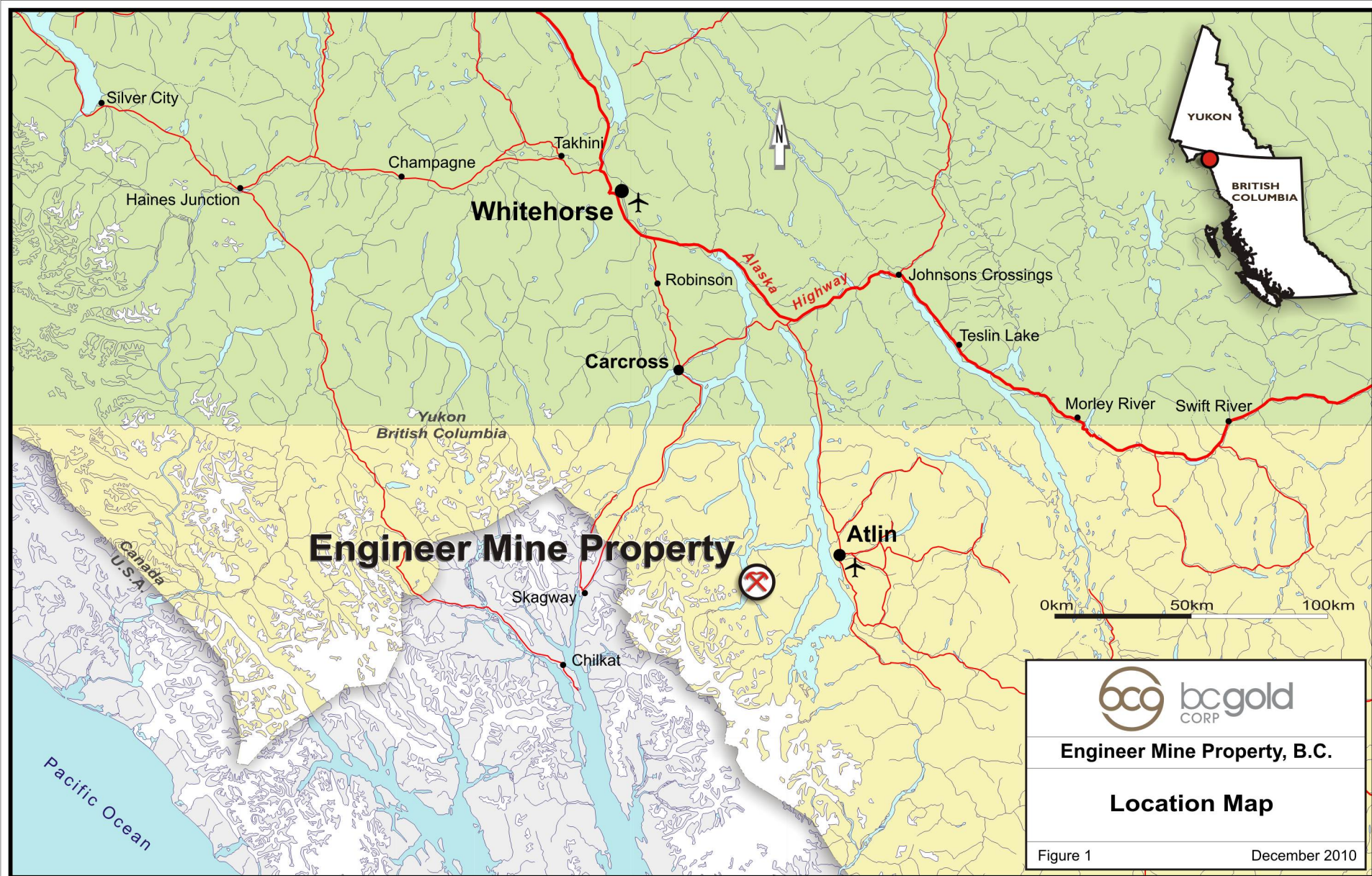
This report discusses a soil sampling and prospecting program carried out on a portion of the Engineer Mine Property by BCGold during August 21<sup>st</sup> to 24<sup>th</sup> of 2014. The work was conducted by Paul Wojdak P. Geo, V.P. Exploration for BCGold of Smithers, BC, and Bruce Coates P. Geo. of Vancouver, BC. The program had four objectives: 1/ a preliminary evaluation of the Blind Creek Claims especially along the gulley where Shear A extends toward the south, 2/ investigate the usefulness of soil sampling and compare it to data collected in previous soil and MMI surveys, 3/ investigate the cause of the airborne magnetic anomaly which straddles the north boundary, 4/ investigate the cause of the airborne resistivity high. The work was carried out almost entirely on the Hope 1 claim.

**Location, Access, Climate, Infrastructure and Physiography**

The Engineer Mine Property (the property) is located 32 km west of Atlin in northwestern BC (Figure 1), on the east shore of the Taku Arm of Tagish Lake. It covers part of the western slopes of Gleaner and Engineer Mountains. Geographical coordinates for the center of the property are 59° 29' north latitude, and 134° 14' west longitude. Approximate UTM coordinates for the center of the program area 6,594,100N and 543,000E (NAD 83, Zone 8). The NTS index is 104/M8 and M9, and the BCGS index is 104M 049.



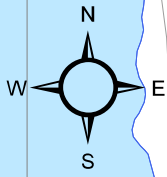




Engineer Mine Property, B.C.

### Location Map

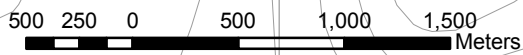
# ENGINEER MINE PROPERTY BCGOLD CLAIM MAP



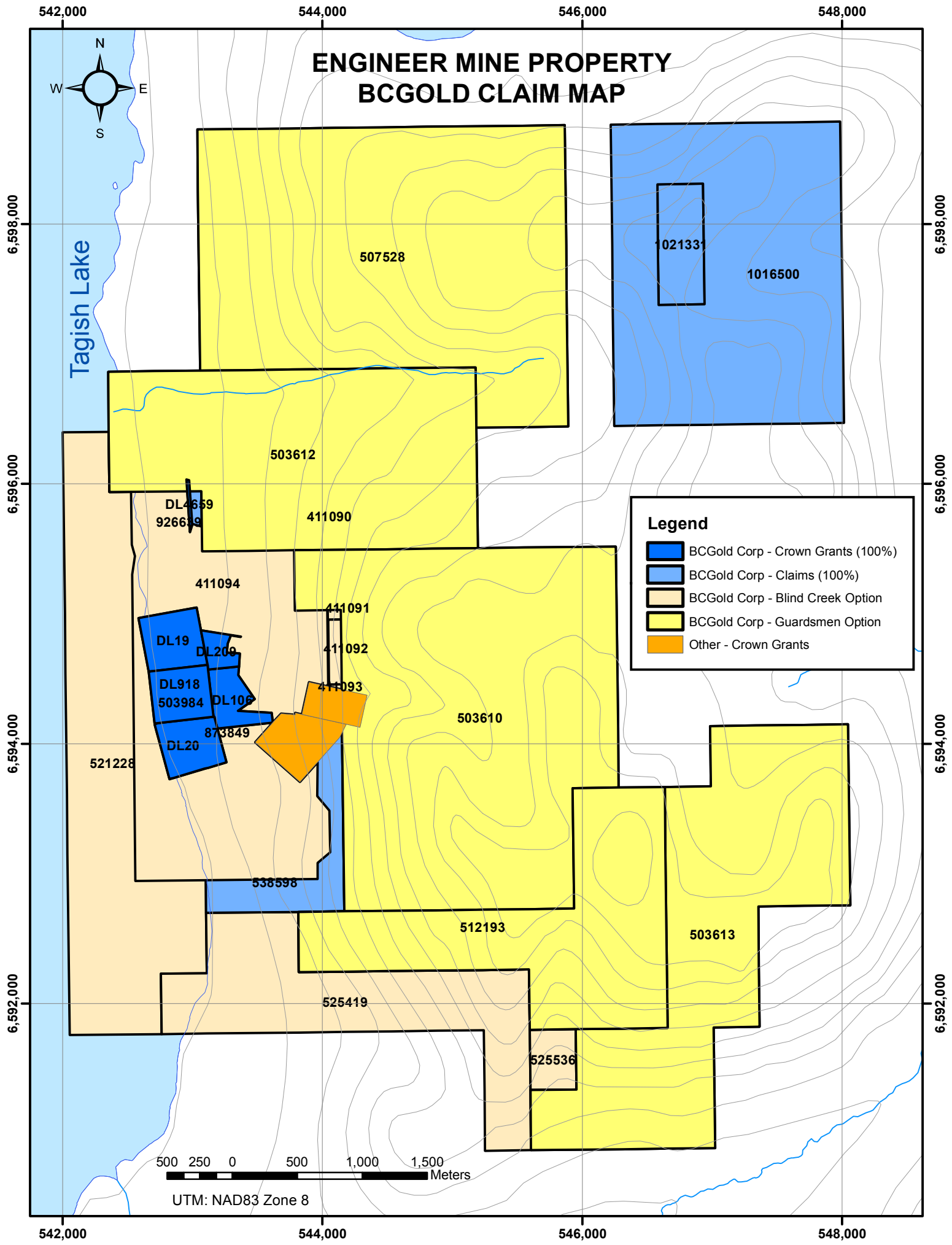
Tagish Lake

## Legend

-  BCGold Corp - Crown Grants (100%)
-  BCGold Corp - Claims (100%)
-  BCGold Corp - Blind Creek Option
-  BCGold Corp - Guardsmen Option
-  Other - Crown Grants



UTM: NAD83 Zone 8



Access to the property from Atlin is by helicopter, float plane, boat or skidoo. Service by high speed landing craft can be obtained via the community of Tagish, (75 km north), or by barge from Carcross (100 km northwest). Beyond each of these towns, excellent highways connect to Watson Lake, Skagway, or Whitehorse, the main supply center of the region. For the 2014 program boat access was provided by Jim Brook of Brooklands Lodge on Tagish Arm.

The climate in the area is typical of northwestern B.C., with long, cold winters and short, cool summers. Due to proximity to the Boundary Ranges, the Engineer property is strongly influenced by coastal weather systems and higher precipitation patterns. Heavy snow falls in winter, and Tagish Lake usually freezes over in winter, but generally not sufficiently for ice road construction. On most days of the summer Tagish Lake becomes windy and rough enough by mid-morning to be dangerous to small boats and float planes trying to land at the unprotected dock near camp.

Topography varies from 655 m at lake level up to 2300 m elevation on Gleaner and Engineer peaks just east of the mine and within the Boundary Ranges to the south and southwest. Alpine glaciers are abundant in the latter which drain into Atlin and Tagish Lakes. These provide an enormous headwater reservoir for the Yukon River which is dammed at Whitehorse causing the lakes to fluctuate about 10 feet through the season. Tree line elevation varies between 1,100 m and 1,400 m elevation. Lower slopes contain variable pine, aspen, birch, balsam and slide alder.

### **Property Tenure**

The Engineer Mine Property totals 3,537 ha and includes the mineral rights to six crown grants and three claims staked by the company (Table 1, Figure 2). In addition BCGold has an option on five claims owned by Guardsmen Resources Inc. (but with title held by BCGold for the duration of the option), and nine claims owned by Blind Creek Resources Ltd. All claims and crown grants are located in the Atlin Mining Division on Map Sheets 104/M08 or 104/M09, and expiry dates include the work reported on here. There is substantial overlap, amongst the crown grants, legacy claims, and cell claims and the author is relying on past work by the B.C. government Mineral Titles Online website, Yvonne McEachern at The Claim Group Inc. (9 Carole Street, Georgetown, ON, L7G 3X5) and Darren O'Brien P. Geo. past V.P. Exploration of BCGold.

The work described in this report is considered low impact and did not require a permit. More substantial work such as drilling or trenching *would* require a permit, and BCGold is in the process of enlarging a Multi-Year Area-Based permit which they have already for the Engineer Mine to include the Blind Creek Claims. Surface rights were granted with some of the crown grants (and BCGold has an option to buy some of these), but for all cell claims and legacy claims surface rights are owned by the province of BC. The property also falls within the traditional territories of both the Carcross-Tagish and Taku River-Tlingit First Nations.





**Table I – Property Tenure**

<i>District Lot #</i>	<i>Crown Grant Name</i>	<i>Area (ha)</i>	<i>Tax Due Date</i>	<i>Description</i>	<i>Annual Taxes</i>	<i>PIN</i>	<i>Owner</i>
19	Engineer No. 1	19.830	02-Jul-2015	Rural Property Tax	\$362.00	1498530	BCGOLD CORP
20	North Partnership No. 2	18.454	02-Jul-2015	Rural Property Tax	\$355.80	1498660	BCGOLD CORP
106	North Partnership No. 3	13.597	02-Jul-2015	Rural Property Tax	\$334.72	1502230	BCGOLD CORP
209	North Partnership No. 4	5.900	02-Jul-2015	Rural Property Tax	\$274.60	1511220	BCGOLD CORP
918	North Partnership No. 1	18.397	02-Jul-2015	Rural Property Tax	\$512.63	1570020	BCGOLD CORP
4659	Bob Fr	0.813	02-Jul-2015	No surface rights for this CG (no rural property tax)			BCGOLD CORP
<i>Claim #</i>	<i>Claim Name</i>	<i>Area (ha)</i>	<i>Expiry Date</i>	<i>Work Due (\$/ha)</i>	<i>Annual Work Due</i>	<i>Annual Cash in Lieu</i>	<i>Owner</i>
538598	ERIK	131.546	03-Aug-2020	\$10.00	\$1,315.46	\$2,630.92	BCGOLD CORP.
873849	ERIK 2	82.2	06-Mar-2017	\$10.00	\$822.00	\$1,644.00	BCGOLD CORP.
926639	ERIK 3	16.434	06-Jan-2016	\$10.00	\$164.34	\$328.68	BCGOLD CORP.
<b>Guardsmen Resources Inc. Option Agreement Dated September 30, 2010</b>							
503610		575.422	17-Nov-2020	\$10.00	\$5,754.22	\$11,508.44	BCGOLD CORP.
503612		361.498	17-Nov-2020	\$10.00	\$3,614.98	\$7,229.96	BCGOLD CORP.
503613	LOL	361.859	17-Nov-2020	\$10.00	\$3,618.59	\$7,237.18	BCGOLD CORP.
507528		558.454	17-Nov-2020	\$10.00	\$5,584.54	\$11,169.08	BCGOLD CORP.
512193	GLINT	246.714	17-Nov-2020	\$10.00	\$2,467.14	\$4,934.28	BCGOLD CORP.
<b>Blind Creek Resources Ltd. Option Agreement Dated August 16, 2013</b>							
411090	HOPE 2	25	06-Oct-2016	\$10.00	\$250.00	\$500.00	BLIND CREEK RES.
411091	HOPE 3	25	06-Oct-2016	\$10.00	\$250.00	\$500.00	BLIND CREEK RES.
411092	HOPE 4	25	06-Oct-2016	\$10.00	\$250.00	\$500.00	BLIND CREEK RES.
411093	HOPE 7	25	06-Oct-2016	\$10.00	\$250.00	\$500.00	BLIND CREEK RES.
411094	HOPE 1	450	06-Oct-2016	\$10.00	\$4,500.00	\$9,000.00	BLIND CREEK RES.
503984	ENG	16.44	06-Oct-2016	\$10.00	\$164.40	\$328.80	BLIND CREEK RES.
521228	HOPE 7	345.28	06-Oct-2016	\$10.00	\$3,452.80	\$6,905.60	BLIND CREEK RES.
525419	TAGISH #1	197.403	06-Oct-2016	\$10.00	\$1,974.03	\$3,948.06	BLIND CREEK RES.
525536	TAGISH #3	16.452	06-Oct-2016	\$10.00	\$164.52	\$329.04	BLIND CREEK RES.
		3536.693					
Expiry Dates include work described in this report							
BCGold to purchase surface rights on all Crown Grants except 4659 (Bob Fr.) in 2015							

**History**

The Engineer Mine has had a long and colorful History which has been summarized elsewhere (Coates, 2010). The discovery of the Engineer Mine dates back to 1899, and up to the present has been the most important auriferous vein occurrence in the region. Mining operations between 1913-1918 and 1925-1927 produced at least 560 kg gold (18,000oz) and 280 kg silver (9,000 oz.) with an average grade of approximately 36 g/t gold and 18 g/t silver. Workings from that era include 8 levels at about 100 foot intervals connected by a shaft and the 5 Level crosscut, but the lowest 3



levels flooded shortly after production ceased. Sporadic mining by high graders continued over the next 50 years as ownership changed hands numerous times.

Modern day exploration began in when 1987 Erickson Gold Mining Corp. (Erickson) became the owner of the property by takeover of Nu Energy. All in that same year they flew an airborne VLF/Mag survey and did ground geophysics, geological mapping and sampling, soil geochemistry, and diamond drilling (8 holes, 1178 meters). The airborne and ground geophysical data is not available while the soil geochemical data yielded no obvious significant anomalies. In the drilling two holes targeting Shear A and intersected up to 29 m of mixed quartz vein and silicified and brecciated argillite, with low but anomalous gold values throughout (avg. 0.008 oz/T Au). Drillhole 87-106, drilled through both the Double Decker and Engineer veins, intersecting the former at about the 700 level but with no significant gold values, and failed to intersect the latter below the 8 level. Five holes targeted soil geochemical anomalies along Shear B, and two of these returned values around 0.2 oz/T gold within larger sections of quartz veining, breccia and silicified argillite (Smit, 1988).

During the 1990's the Engineer Mining Corporation (EMC) brought a small 30 tons per day mill and a 20 man camp to the property and re-opened the underground workings for bulk sampling in a number of areas for several years.

Work by BCGold Corporation began when they optioned the central Crown Grants from EMC in 2007. In that year Aspinall (2007) collected 160 rock samples from underground, surface, and selected 1987 core. Exploration in 2008 included mapping, petrology, underground chip/channel sampling, and drilling (7 holes, 1846 meters). Mapping was compiled for surface and 5 level at 1:1,500 and 1:1,000 scales respectively (Devine, 2008). Underground channel sill sampling with a diamond saw was done on the Shaft, Boulder (2 areas), Engineer, Double Decker (2 areas), and Shear A veins. Of a total of 35 vein samples one contained 860 g/t (Shaft vein), one 14.7 g/t, five were below 4 g/t Au, and the rest below 1 g/t gold. Drilling focused on a 400 m portion of Shear A, the late stage hydrothermal breccia zone. Six holes were completed and all returned anomalous gold and silver values, including 20.1 m of 0.48 g/t Au, 32.0 m of 0.44 g/t Au, and 34.0 m of 0.45 g/t Au. The breccia zone remains open to the NNW and SSE, and appears to widen slightly towards the south.

No work was done on the property in 2009, and in 2010 a two-phase underground drill program from 5 Level (13 holes, 1218 meters) targeted the Engineer and Double Decker Veins. Later in 2010 the Guardsmen claims were optioned and in early 2011 a helicopter-borne Magnetic/Resistivity survey was conducted along with geological mapping, prospecting and rock sampling over the enlarged property. Closer to the mine site numerous trenches were reopened for sampling, 5 areas underground were bulk mined and milled, and 70 oz. of gold were recovered.



During 2012 BCGold conducted more mapping and sampling, including Mobile Metal Ion (MMI) sampling in selected areas of the larger property. Nearer the mine, MMI sampling was also done, along with the de-watering of 6 and 7 Levels to allow geological mapping and sampling of the Engineer Vein. In 2013 BCGold optioned 9 Claims from Blind Creek which cover the southward extension of Shear A.

### **Regional Geological Setting**

The Engineer Mine property lies within the Whitehorse Trough, a north northwest trending, fault bounded, synclinorium of forearc volcanic and related sedimentary rocks (Morrison, 1981). Basal rocks within the synclinorium are upper Triassic mafic flows and associated volcanoclastic rocks of the Stuhini Group. Overlying these, and dominating the center of the trough, are a thick sequence of argillites, siltstones, sandstones with minor conglomerate and limestone belonging to the Labarge Group. East north-east structural shortening has resulted in extensive folding of both trough rock types.

Just to the west of the property the Llewellyn Fault Zone is inferred to underlie Tagish Lake. This major terrane-bounding structure extends across northwest British Columbia into Yukon and Alaska, and has a protracted history which may be as old as late-Triassic (200 – 231 Ma), and as young as early Eocene (49 – 55 Ma). Where it is exposed north and south of Tagish Lake it is near vertical, a few to tens of meters in width, and has both ductile and brittle early fabrics overprinted by younger brittle deformation (Mihalynuk, 1999). The Llewellyn Fault shows a bend from a north northwest to a presumed north-south orientation under the lake as it passes west of the property. Several splays of the Llewellyn Fault are mapped on the east side of the fault, still with a northwest trend. As Devine (2008) notes, the pattern is of a right-lateral releasing bend with the dilational zone spatially coincident with the cluster of known gold occurrences.

Immediately west of the Llewellyn fault lie a group of highly metamorphosed epicontinental rocks which lie along the eastern boundary and are sometimes intruded by the late Cretaceous and Tertiary Coast Plutonic Complex. These rocks have a strong structural overprinting which suggest a long metamorphic history, and are at least pre-Permian and possibly late Proterozoic in age.

Eocene intrusions and volcanic complexes of the Sloko Group volcanics occur throughout the area on both sides of the Llewellyn Fault, usually as erosional remnants on some of the higher peaks. The volcanic centers are comprised of rhyolite to andesite flows, breccia, tuffs, and ignimbrite, with coeval intrusions. An inlier of one of these complexes caps Engineer Mountain on the eastern side of the property, and is bounded by the dilatant zone created by the Llewellyn splays. Sloko Group rocks are also found nearby at Mount Fetterly, TeePee Peak, and Mt. Switzer, and usually have an association with gold mineralization. The Skukum mine in southern Yukon is one of the best known



examples. Gold mineralization there is associated with adularia-sericite alteration near rhyolite dykes along co-magmatic shear zones (Lang et. al., 2003).

### **Property Geology**

The predominant rock type underlying the Engineer property is Labarge Group predominantly dark brown to black, thinly bedded argillites. Interbedded within the argillites are thickly bedded light to medium gray greywacke with overall attitudes of  $\sim 300^{\circ}/35^{\circ}$  NE. The somewhat recessive sediments form rounded benches at lower elevations sub-parallel to the lake. At the higher elevations of Engineer and Gleaner Mountains Sloko volcanic rocks form high castellated cliffs. These include epiclastic layers of basaltic and andesitic flows, and rhyolite dikes, sills, and breccias. On the southwest slope of Engineer Mountain a quartz diorite plug approximately 1-2 km in diameter outcrops below the Sloko extrusives and has been dated at 52 mA (Mahalynuk 1999).

Devine (2008) describes a suite of dikes occurring within the property which occupy brittle faults mostly parallel to, and within, NNW oriented shear zones, but also parallel to NNE oriented quartz-carbonate veins. All are classified as monzodiorites by modal mineral abundances (Fonseca, 2008); however they vary substantially in igneous texture and associated alteration. Medium grained equigranular biotite-augite porphyritic dikes have associated carbonate-pyrrhotite alteration and are likely the oldest. Fine grained dikes with increasing amounts of plagioclase phenocrysts, and increasing (weak to moderate) clay/sericite alteration are of probable medium age. Youngest of all are strongly clay/sericite altered dikes often referred to as “Rhyolite” dikes in the older literature. Alteration in these later dikes is commonly limited to the dikes themselves, suggesting that they were fluid-charged and likely most altered at their apical extents.

### **Structure**

Shear Zone A is the main structural element on the property and is inferred to be a splay off the Llewellyn Fault. The surface expression is a prominent gully (Shear-A gully), which begins just north of camp along the shore of Tagish Lake and extends at least 4 kilometers to the SSE at a bearing of about 150 degrees. Engineer Creek is deflected from its east-west path down the mountain slope toward the NNW by this gully, and it is also the route used by some of the trail network on the property (Figures 3-7). Close to camp this Early (Jurassic age?) mostly ductile deformation zone has been mapped (Devine, 2008) as a 150 m wide zone of strong shear parallel cleavage. A younger mostly brittle reactivation of Shear Zone A, which deforms “Sloko” dikes, consists of a 40 m wide quartz/carbonate sheared breccia zone which was the target of the 2008 drilling. Reidel and extension structures compatible with the shearing opened up vein systems of varying mineralogy. As with the later Shear Zone A deformation, some of these also crosscut or contain clasts of dike rock. Youngest structures on the property are several brittle NNW trending ( $\sim 155^{\circ}$ ) sub-vertical faults, which are fairly discrete structures, usually with a few 10's of meters of displacement.



## **Mineralization**

A summary of the mineralogy on the property, including ore-related mineralogy is the topic of a paper by Mauthner et al. (1996). Mineralization on the Engineer property shows high gold/silver ratios (0.5 to 2), with temperatures of formation up to 195° C and a depth of formation of approximately 1.8 km, putting it at the deeper limit of classic low sulphidation epithermal type veins (Mihalynuk, 1999). Vein textures, however, display open space fillings and textures more characteristic of a shallower setting. The development of the hydrothermal system was synchronous with structural reactivation and likely also Sloko magmatism and this may account for the textural and depth ambiguities.

The Engineer and Double Decker Veins are the largest veins on the property (up to 400 m long) and most of the historic production was obtained from them. They are also probably the longest lived veins, with the most complex mineralogy. They occur south of the Shear Zone A and display shear vein (banded) and extension vein (open space) textures, as well as abundant multi-phase breccia. Grades are usually highest at dilational jogs forming sub-vertical shoots. Pale green or white mica is common in these veins. Highest gold grades in the Engineer vein are found where native gold/electrum occurs with roscoelite (a dark green vanadium mica), and alledmontite (a native stib-arsenide) for example in the “bonanza shoot” on the Engineer vein just east of the main crosscut.

Veins to the north of Shear Zone A in the Boulder-Governor system, in contrast are almost exclusively extension veins, with little or no mica. Highest grades in these usually consist of free gold in quartz, and occur at vein intersections in 1-3m wide breccia zones. These veins were mined by the EMC in 1993.

## **2014 Exploration Methodology**

Soil samples were located with a nominal spacing of 25 meters in the field using a Garmin 60CSx GPS. On some dry rocky ridges there was not enough soil to sample and the location was missed. Pits ranged from 30-50cm with the B horizon being sampled. A soil auger was used where the depth, organics or boulders precluded collection of suitable material by hand. Each site was labeled with red flagging on which the sample number was recorded. Samples were placed in standard Kraft bags and air dried in camp. The samples were shipped by air in security tagged rice bags with the personal gear of the author to Vancouver, and then by Greyhound to Actlabs in Kamloops. At the lab the rice bags were received by the lab with no evidence of tampering.

## **Sample Analysis**

A total of 55 soil samples and one rock sample were submitted to Actlabs an ISO/IEC 17025 accredited lab, whose business address is 9989 Dallas Drive, Kamloops, British Columbia, Canada, V2C 6T4. The samples were dried (60°C) and sieved (-80 mesh), before being analyzed by Aqua





Regia digestion and ICP/MS (Lab code 1DX). Actlabs Certificate of Analysis is contained in Appendix I and a summary table of the Engineer Soil Geochemistry is presented as Appendix IIA.

### **Data Verification (QA/QC)**

Due to the small size of the program BCGold did not conduct its own data verification program, and relied on the labs own results. Actlabs QA/QC consisted of the insertion of four certified reference standards (no blanks) and duplication of analysis for four samples. A simple percentage variation was calculated for each of the eight QA/QC tests on all of the 36 elements (Appendix IIB). Clearly the absolute values for most elements vary tremendously as indicated by the wide variation between the results for the Certified Reference Standards, particularly GXR-4 and GXR-6. The lab also warns on the title page of the report that “Gold by this package is not reliable and you should have Au by Fire Assay done if you need accurate Au values”. In spite of this, the results for the duplicate samples are within tolerance especially away from the detection limits. For a soil geochemistry program the relative values are more important than absolute values.

### **2014 Prospecting Results**

During the soil sampling program the two members of the BCGold field crew conducted geological reconnaissance and prospecting. East of the Shear-A gully no outcrop was exposed, while to the west of the gully many outcrops of argillite were encountered – especially on the dry ridge tops.

In spite of the absence of outcrop east of the Shear-A gully only a limited number of angular rock types were found in float, talus or the soil pits. No Argillite was found there. 1/ Diorite was located at station 14034, and consisted of a medium grained, strongly magnetic, 0.5-1% disseminated fine grained magnetite, plagioclase feldspar, and altered mafic near 50%, approaching gabbro composition, 2/ Diorite Porphyry, found at locations 14024, 14031, 14034 consisted of 75-80% fine grained matrix with a few percent of chloritized mafics, moderately magnetic, and 3/ Basalt at location 14029, 14034, 14035-14040, consisted of fine grained, dark green mafic rock, variably non-to very strongly magnetic, sometimes with 1-3mm sized feldspar and pyroxene and occasional traces of an unknown silvery metallic mineral, possibly an aphanitic chilled margin or boundary phase of the Engineer Stock.

West of the Shear-A gully numerous outcrops were located along the ridge tops, almost all of which consisted of 1/ Argillite with rusty fracture surfaces, very hard and siliceous, very fine grained dark grey to black, sporadic disseminated, disconnected clots of pyrite, little grain size variability. At one location (6593750N-543325E) the Argillite formed a prominent cliff, trending 162 degrees, against the Shear-A gully. Prospecting along the base of this for about 50 meters to the north and south revealed no slickensides, shearing or other evidence of faulting, and no quartz veining or other





**Looking north (~340 deg.) with Tagish Lake in the background. Geologist Bruce Coates highlights the orientation of a monzonite dike encountered within argillite outcrops on a ridge top east of the Shear-A gully (right). Not much soil for sampling here.**

evidence of brecciation and mineralization. A 5-7m thick diorite dike was noted here however, slightly oblique and more N/S to the trend of the cliff.

Just north of Station 14050 (6593781N-543097E) an old trench was re-located that likely dates to the 1920's. The trench, now mostly sloughed in, exposed a ~0.5 meter thick, multi-phase quartz carbonate breccia vein for at least 30 meters. Its orientation, similar to that of the Engineer Vein, indicates that the same structural regime exists here as 300 meters to the NW. A single composite grab sample was taken 7R-51504 which returned 530 ppb gold, 2270 ppm arsenic, and 47 ppm antimony, with notably elevated strontium and selenium and lowered values for vanadium and gallium.

### **2014 Soil Sampling Results**

Soil sampling results for 2014 are presented in Figures 3-7 (nominal 1:4,000 scale) with the soil lines numbered for reference. These figures also show the MMI results from 2012 where available for comparison, usually expressed as Response Ratio's (RR), with a nominal spacing of 10 meters. The 2012 MMI suite of elements is not exactly the same as for the 2014 dataset. Also included in the figures are the 5-level workings on the Engineer Vein system, trails (including the power line trail leading off to the south), and an outline of the airborne resistivity high, all placed on the airborne magnetic background. Tagish Lake is in the extreme SW corner, and camp lies off the map about 1.5 kilometers to the NNW.

In past studies at the Engineer property, correlation matrices have been created for both the 2010 Engineer/Double-Decker and the 2008 Shear-A drill programs. Both the narrow high grade veins and larger lower grade shear breccias continue to be valid exploration targets, but their expression and pathfinder elements may differ. For example, Au:Ag have a high correlation in the vein drilling (0.99), but no correlation for Shear-A (0.12), Au:As have a high correlation in Shear-A (0.53), but no correlation in the veins (0.13). A correlation matrix was constructed for the 2014 soil sampling data set (Appendix III), even though it is quite small and may be strongly affected by the ICP-MS methodology.

Molybdenum (Figure 3) highlights Shear-A best of all the elements, and this is true for both the MMI and Soil data. This may indicate an intrusive source for the gold. In contrast the Correlation of Au:Mo for the 2008 Shear-A drilling is -0.07, for the 2010 Engineer Vein drilling is 0.31, and for the 2014 soil dataset is -0.07. In fact molybdenum does not correlate with *any* other element in the 2014 dataset.

Antimony, a more usual pathfinder for gold has no correlation with gold in the 2014 dataset and only a weak correlation in the past Engineer Vein and Shear-A drill programs (0.31 and 0.24



respectively) and as expected from this shows a fairly scattered distribution (Figure 4). The 2014 soil data shows a slight enrichment in the presumed Engineer Stock intrusive (i.e. east of the Shear-A gully), while both data sets show scattered elevated values near the old Engineer Mine workings. A series of high MMI values near the east end of the third line south, on the eastern edge of the magnetic anomaly warrant follow up.

Tungsten showed no correlation with gold in this or any of the previous drill programs, but the 2014 soil data and southernmost two lines of the 2012 MMI data cluster somewhat over the Shear-A gully. The striking difference between the east ends of Lines 3 and 4 may be due to the fact that line 4 coincided with a talus slope.

Arsenic, another usual pathfinder for gold and often found with gold in the Engineer vein, showed a high correlation with gold in the past drill program on Shear-A (0.53), but only a very low correlation with gold in past drilling of the Engineer Vein (0.13) and in the 2014 soils (-0.02). Figure 6 appears to show very scattered arsenic values, but in fact the area outside of the combined mine workings, Shear-A, and the intrusive (i.e. the argillite in the SW) is all very low except for two values very near the 1920's trench where re-sampling during this program returned a value of 2270 ppm arsenic.

Gold soil values, as the lab noted, are not to be trusted (duplicates range from 300-1200% variability!), yet the *highest* gold in soil value of the program (96ppb, ~10x background) occurred directly over Shear-A on line 2 (Figure 7). The second highest soil value, while not nearly so dramatic, occurred in the area of the 1920's trench. MMI values are much more scattered for this element though some high values were obtained near the area of the mine workings. Calcium, selenium and strontium yielded the best elemental correlation with gold for the 2014 dataset. When plotted, each of them yields a pattern similar to that for Calcium (Figure 8) which is a halo around the magnetic anomaly. This relationship is not easily explained and should be further investigated.

### **Conclusions and Recommendations**

The 2014 prospecting and Soil Geochemical program had four objectives: 1/ a preliminary evaluation of the Blind Creek Claims especially along the gully where Shear A extends toward the south, 2/ investigate the usefulness of soil sampling and compare it to data collected in previous soil and MMI surveys, 3/ investigate the cause of the discrete airborne magnetic anomaly which lies to the east of the Shear-A gully, and 4/ investigate the cause of the airborne resistivity high lying to the west of the Shear-A gully.



With regard to the value of the Blind Creek claims, the area investigated by this program uncovered no outcrop in or east of the Shear-A gully which widens and becomes less distinct in this area. On the west rim of the gully a steep cliff face of argillite showed no evidence of mineralization or shearing. It is recommended that prospecting be extended to the south and east into an area where outcrop was noted in the distance. With the abundance of talus, it is difficult to recommend further soil geochemistry there.

The MMI survey of 2012 does not appear to have worked any better than the soil survey of 2014, however the density of data (10 meter spacing), might allow for better discrimination along the length of the Shear-A target, and might upgrade certain portions of it for drilling. Increased sample density and would *certainly* be necessary for discovery of any new narrow vein target.

The Airborne Magnetic High is almost certainly due to a particular phase of the Engineer Stock. Several intrusive phases found as angular, magnetic float in soil pits during this program in an area where the magnetic anomaly is of lower value and less discrete, suggest that another phase that is more magnetic is directly responsible for the anomaly, and yet to be discovered.

The Airborne Resistivity High was not specifically explained during the program. The anomaly coincides with a very well drained, dry, rocky ridge which may be the cause.





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**Certificate of Qualifications**

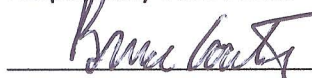
I, Bruce F. Coates of the city of Vancouver in the province of British Columbia do hereby certify that:

- I am a registered Professional Geoscientist with the Association of Professional Engineers and Geoscientists of the Province of British Columbia.
- I am a consulting geologist of Core Assets Consulting with offices at: 845 East 31st Avenue, Vancouver, B.C. V5V 2X2

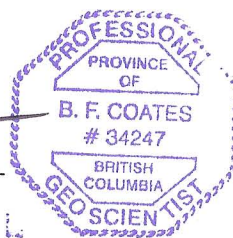
I further certify that:

- I am a graduate of the University of British Columbia (1985) with a Bachelor of Science degree in Geology.
- I have worked as a geologist for a total of 30 years since graduation from university, and have been involved in mineral exploration and mining for base and precious metals and uranium throughout western Canada and Russia.
- I am responsible for the collection and presentation of the technical information gathered during the soil sampling program on BCGold's Engineer Property between August 21<sup>st</sup> and August 24<sup>th</sup>, 2014 and contained in this report entitled: "REPORT ON THE 2014 SOIL SAMPLING AND PROSPECTING PROGRAM AT THE ENGINEER MINE PROPERTY TAGISH LAKE AREA ATLIN MINING DIVISION BRITISH COLUMBIA" for BCGold Corporation.
- I have no interest, nor do I expect to receive an interest, financial or otherwise, in BCGold Corporation, Engineer Mining Corporation, Guardsmen Resources Inc. or Blind Creek Resources Ltd.

Respectfully Submitted:



Bruce Coates, P. Geo.



Core Assets Consulting

November 15<sup>th</sup>, 2014









**Date Submitted:** 28-Aug-14  
**Invoice No.:** A14-06058  
**Invoice Date:** 15-Sep-14  
**Your Reference:**

BC Gold Corp  
520-800 West Pender St  
Vancouver BC  
Canada

ATTN: Bruce Coates

## CERTIFICATE OF ANALYSIS

56 Soil samples were submitted for analysis.

The following analytical package was requested:

Code 1DX-Kamloops Aqua Regia ICP/MS

REPORT      **A14-06058**

This report may be reproduced without our consent. If only selected portions of the report are reproduced, permission must be obtained. If no instructions were given at time of sample submittal regarding excess material, it will be discarded within 90 days of this report. Our liability is limited solely to the analytical cost of these analyses. Test results are representative only of material submitted for analysis.

Notes:

Note: Au by this package is not reliable and you should have Au by Fire Assay done if you need accurate Au values.

CERTIFIED BY:

A handwritten signature in black ink, appearing to read "Emmanuel Esemé".

Emmanuel Esemé , Ph.D.  
Quality Control



## Results

Analyte Symbol	Ag	Al	As	Au	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P
Unit Symbol	ppm	%	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	%
Detection Limit	0.1	0.01	0.5	0.5	20	0.5	0.1	0.01	0.1	0.1	1	0.1	0.01	1	0.01	0.01	1	0.01	1	0.1	0.001	0.1	0.001
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
E-14001	< 0.1	3.29	28.2	10.1	< 20	1520	0.3	0.48	1.1	25.9	29	55.5	4.98	9	0.02	0.13	24	0.84	938	5.0	0.038	47.0	0.079
E-14002	< 0.1	2.31	19.6	6.7	< 20	142	0.1	0.27	0.2	8.0	31	20.5	2.55	8	0.04	0.12	13	0.49	214	1.3	0.033	17.2	0.023
E-14003	< 0.1	1.89	12.5	3.2	< 20	64.9	0.1	0.23	0.1	4.5	24	14.1	1.89	6	0.04	0.06	11	0.33	160	1.0	0.031	9.8	0.019
E-14004	1.0	2.29	429	8.1	< 20	90.4	0.2	0.22	0.5	10.8	37	38.9	4.68	9	< 0.01	0.14	12	0.57	288	2.4	0.021	35.0	0.033
E-14005	0.4	0.86	8.9	7.6	< 20	36.7	< 0.1	4.53	0.8	7.2	9	31.2	0.72	1	0.12	0.03	7	0.17	2100	3.3	0.034	15.0	0.206
E-14006	0.2	1.80	21.4	2.6	< 20	153	0.1	0.38	0.1	6.9	25	14.1	2.40	6	< 0.01	0.13	11	0.44	217	0.9	0.032	13.2	0.038
E-14007	< 0.1	2.30	28.8	2.4	< 20	137	0.2	0.23	0.1	8.2	53	16.9	3.46	10	< 0.01	0.10	11	0.62	222	1.5	0.032	14.7	0.029
E-14008	< 0.1	2.54	28.4	0.6	< 20	193	0.2	0.37	0.3	11.1	45	17.4	3.92	12	< 0.01	0.13	13	0.72	297	2.2	0.038	21.2	0.035
E-14009	< 0.1	1.14	45.1	3.6	< 20	158	0.1	1.17	0.4	5.7	21	23.6	2.14	4	0.02	0.12	14	0.41	235	15.5	0.044	11.8	0.055
E-14010	0.1	1.73	39.0	6.0	< 20	172	0.2	0.87	0.2	8.9	32	25.2	2.83	7	< 0.01	0.17	14	0.55	396	7.5	0.051	15.4	0.042
E-14011	0.1	2.07	17.4	7.5	< 20	266	0.2	0.90	0.1	8.8	34	26.0	2.39	8	< 0.01	0.22	14	0.57	490	1.4	0.053	16.3	0.034
E-14012	< 0.1	1.90	26.8	1.5	< 20	137	0.2	0.39	< 0.1	9.5	27	16.0	2.38	6	< 0.01	0.16	12	0.47	217	1.1	0.042	17.2	0.037
E-14013	< 0.1	1.73	22.0	< 0.5	< 20	172	0.2	0.33	0.1	8.4	28	10.6	2.59	7	< 0.01	0.17	11	0.47	232	0.9	0.032	13.9	0.026
E-14014	< 0.1	2.53	52.4	11.8	< 20	137	0.3	0.34	0.4	14.5	40	36.1	4.17	10	< 0.01	0.18	12	0.69	335	2.5	0.034	41.9	0.032
E-14015	< 0.1	2.52	42.9	< 0.5	< 20	153	0.3	0.26	0.2	12.2	34	29.5	3.16	8	< 0.01	0.18	13	0.55	262	1.3	0.032	26.8	0.039
E-14016	< 0.1	1.76	102	3.9	< 20	91.2	0.4	0.30	0.1	8.4	31	13.0	3.05	8	< 0.01	0.19	13	0.52	257	1.3	0.034	15.3	0.035
E-14017	< 0.1	2.77	187	3.7	< 20	169	0.4	0.71	0.3	14.4	44	32.7	4.11	10	< 0.01	0.24	20	0.74	569	4.8	0.055	21.6	0.044
E-14018	< 0.1	1.72	92.6	6.4	< 20	141	0.4	0.32	0.2	8.3	36	15.3	3.32	10	< 0.01	0.19	14	0.53	307	2.0	0.034	13.3	0.029
E-14019	0.1	2.15	131	11.5	< 20	158	0.5	0.76	0.5	12.1	17	18.3	4.30	8	< 0.01	0.23	41	0.58	897	1.9	0.058	8.8	0.171
E-14020	0.1	1.97	155	8.9	< 20	166	0.5	0.44	1.0	17.3	22	20.8	3.69	8	< 0.01	0.26	21	0.45	748	2.4	0.032	11.4	0.091
E-14021	0.1	1.90	143	1.4	< 20	128	0.5	0.36	0.3	8.6	34	21.1	3.48	9	< 0.01	0.24	15	0.54	275	2.2	0.030	15.3	0.037
E-14022	0.2	2.07	142	14.5	< 20	154	0.5	0.64	0.3	10.8	20	20.2	3.89	8	< 0.01	0.24	24	0.53	619	3.4	0.043	9.6	0.092
E-14023	0.1	1.91	177	8.4	< 20	133	0.5	0.65	0.5	10.9	34	29.3	4.11	10	< 0.01	0.27	17	0.52	464	4.4	0.032	15.2	0.038
E-14024	0.1	0.62	13.6	96.3	< 20	80.1	0.1	4.41	0.1	0.9	12	11.2	0.82	2	0.02	0.04	11	0.18	29	0.6	0.023	4.2	0.092
E-14025	< 0.1	1.60	92.0	3.6	< 20	156	0.4	0.85	0.2	6.8	11	11.2	3.48	7	< 0.01	0.13	35	0.47	435	3.2	0.052	4.8	0.157
E-14026	0.2	1.64	339	6.6	< 20	82.8	1.3	0.74	0.4	7.1	13	17.3	3.47	9	< 0.01	0.16	36	0.38	668	5.3	0.041	6.6	0.075
E-14027	0.1	1.64	156	4.0	< 20	118	0.8	0.76	0.2	7.2	10	13.0	3.51	8	< 0.01	0.13	41	0.32	772	11.8	0.036	5.1	0.079
E-14028	< 0.1	2.53	201	4.9	< 20	179	0.7	0.74	0.2	12.7	17	16.6	4.79	10	< 0.01	0.27	33	0.61	1030	3.0	0.050	7.8	0.209
E-14029	< 0.1	1.59	137	7.4	< 20	138	0.5	0.70	0.3	9.7	13	11.6	4.08	7	< 0.01	0.21	37	0.47	618	2.2	0.044	5.2	0.219
E-14030	< 0.1	2.15	141	6.2	< 20	149	0.7	0.70	0.3	11.4	14	14.3	4.66	9	< 0.01	0.27	33	0.50	479	2.4	0.044	5.8	0.220
E-14031	< 0.1	2.23	153	9.1	< 20	143	0.8	0.51	0.3	8.2	13	15.0	4.24	9	< 0.01	0.26	35	0.47	475	3.1	0.037	6.5	0.156
E-14032	0.2	2.18	111	9.8	< 20	201	0.6	0.81	0.7	11.6	15	17.2	4.15	8	< 0.01	0.30	40	0.52	1180	2.7	0.047	8.0	0.151
E-14033	0.1	1.74	81.6	3.9	< 20	153	0.6	0.52	0.2	7.8	11	9.8	3.71	8	< 0.01	0.17	37	0.38	955	2.3	0.036	5.1	0.115
E-14034	< 0.1	1.98	95.0	2.4	< 20	152	0.9	0.60	0.4	9.6	13	13.2	4.06	9	< 0.01	0.22	43	0.43	1220	2.4	0.042	6.6	0.121
E-14035	0.2	1.48	236	5.5	< 20	87.0	1.7	0.31	0.4	7.4	11	18.7	3.62	7	< 0.01	0.15	47	0.31	802	3.0	0.033	5.7	0.078
E-14036	0.2	1.24	184	1.8	< 20	79.1	1.1	0.31	0.6	7.0	10	14.6	3.37	7	< 0.01	0.15	42	0.28	858	2.6	0.029	4.8	0.077
E-14037	0.2	1.43	236	< 0.5	< 20	100	1.6	0.50	0.6	6.6	10	14.9	3.60	7	< 0.01	0.15	46	0.32	867	2.7	0.036	4.1	0.115
E-14038	0.2	1.18	160	1.4	< 20	78.3	0.9	0.29	0.7	5.9	10	15.0	3.22	7	< 0.01	0.13	41	0.28	643	2.1	0.029	4.6	0.061
E-14039	0.2	1.25	217	3.3	< 20	78.8	1.5	0.27	0.3	5.6	11	13.2	3.74	8	< 0.01	0.20	34	0.28	740	3.0	0.029	4.8	0.109
E-14040	0.9	1.11	98.4	15.9	< 20	260	1.0	0.54	1.8	11.4	8	17.5	2.84	7	< 0.01	0.16	27	0.18	5950	2.7	0.031	5.8	0.095
E-14041	0.5	1.24	134	0.6	< 20	161	1.2	0.54	0.6	6.4	13	14.9	3.12	8	< 0.01	0.22	33	0.32	950	3.1	0.034	5.3	0.108
E-14042	0.3	1.89	12.9	9.4	< 20	144	0.2	1.11	0.8	12.2	26	63.0	2.93	6	< 0.01	0.05	15	0.35	971	2.4	0.032	31.7	0.097
E-14043	0.2	2.67	32.0	4.7	< 20	95.4	0.2	0.47	0.1	11.1	35	27.2	3.16	6	< 0.01	0.11	15	0.52	262	1.4	0.043	23.6	0.077
E-14044	0.3	1.42	6.7	2.8	< 20	117	0.3	0.57	0.3	3.6	25	81.4	2.05	6	< 0.01	0.02	17	0.15	54	0.7	0.028	22.3	0.044
E-14045	0.2	2.57	15.5	1.5	< 20	128	0.2	0.57	0.8	22.8	32	62.0	4.00	9	< 0.01	0.09	17	0.53	682	2.0	0.039	45.5	0.053
E-14046	< 0.1	2.05	17.5	< 0.5	< 20	172	0.2	0.39	< 0.1	10.1	39	7.3	3.14	10	< 0.01	0.09	9	0.78	202	2.0	0.036	17.2	0.016
E-14047	< 0.1	1.46	7.3	< 0.5	< 20	122	0.1	0.52	< 0.1	5.8	22	10.1	1.89	5	< 0.01	0.12	14	0.41	253	0.6	0.042	8.9	0.035
E-14048	< 0.1	1.94	11.6	1.9	< 20	168	0.2	0.45	< 0.1	7.5	30	17.8	2.50	6	< 0.01	0.21	13	0.51	261	0.9	0.039	15.3	0.034
E-14049	< 0.1	1.63	234	18.4	< 20	166	0.2	0.32	< 0.1	7.0	28	9.1	1.72	8	< 0.01	0.15	11	0.36	545	0.9	0.030	7.9	0.027

Analyte Symbol	Ag	Al	As	Au	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P
Unit Symbol	ppm	%	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	%
Detection Limit	0.1	0.01	0.5	0.5	20	0.5	0.1	0.01	0.1	0.1	1	0.1	0.01	1	0.01	0.01	1	0.01	1	0.1	0.001	0.1	0.001
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
E-14050	< 0.1	2.29	235	2.1	< 20	131	0.3	0.43	0.4	11.6	28	24.9	3.98	9	< 0.01	0.16	15	0.60	401	2.0	0.029	18.2	0.036
E-14051	0.1	2.95	13.3	< 0.5	< 20	390	0.3	0.53	0.2	24.6	33	45.9	3.45	8	< 0.01	0.25	19	0.43	798	1.8	0.041	26.4	0.028
E-14052	< 0.1	1.03	10.5	1.2	< 20	120	0.2	0.47	0.1	5.6	21	7.7	2.08	5	< 0.01	0.14	10	0.33	213	0.9	0.032	7.6	0.026
E-14053	< 0.1	1.26	10.1	< 0.5	< 20	141	0.1	0.38	0.1	6.4	22	8.8	2.14	5	< 0.01	0.20	11	0.38	259	0.8	0.034	9.2	0.038
E-14054	< 0.1	1.64	15.5	< 0.5	< 20	180	0.2	0.36	< 0.1	7.3	23	14.3	2.41	6	< 0.01	0.16	13	0.40	226	0.8	0.032	14.2	0.021
E-14055	< 0.1	1.83	17.1	< 0.5	< 20	109	0.2	0.46	0.8	20.3	23	38.6	2.80	6	< 0.01	0.10	13	0.42	503	1.0	0.030	29.7	0.057
7R-51504	0.2	0.18	2270	530	< 20	15.8	< 0.1	12.3	< 0.1	1.1	21	3.5	0.50	< 1	< 0.01	0.07	6	0.09	1340	1.4	0.017	4.8	0.010

## Results

Analyte Symbol	Pb	S	Sb	Sc	Se	Sr	Te	Th	Ti	Tl	V	W	Zn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Detection Limit	0.1	1	0.1	0.1	0.5	1	0.2	0.1	0.001	0.1	2	0.1	1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
E-14001	12.6	< 1	1.5	5.5	1.1	37	< 0.2	6.4	0.095	0.2	66	0.5	391
E-14002	8.6	< 1	1.4	4.6	< 0.5	23	< 0.2	5.0	0.082	0.1	63	0.2	57
E-14003	6.7	< 1	1.0	3.8	< 0.5	20	< 0.2	4.2	0.083	< 0.1	55	0.2	44
E-14004	10.3	< 1	6.7	5.3	1.0	22	< 0.2	3.0	0.037	0.2	75	0.2	171
E-14005	2.4	< 1	2.1	0.5	4.2	229	< 0.2	0.4	0.007	0.2	12	0.1	13
E-14006	8.1	< 1	1.2	3.5	< 0.5	30	< 0.2	3.1	0.066	< 0.1	52	0.2	43
E-14007	10.3	< 1	1.5	5.6	< 0.5	20	< 0.2	4.0	0.127	0.1	96	0.2	82
E-14008	10.4	< 1	1.5	6.2	< 0.5	26	< 0.2	3.9	0.117	0.1	99	0.2	189
E-14009	7.6	< 1	1.3	3.6	1.3	67	< 0.2	2.6	0.055	< 0.1	39	0.8	41
E-14010	10.4	< 1	1.6	5.0	1.2	51	< 0.2	4.0	0.087	< 0.1	66	0.4	50
E-14011	9.5	< 1	1.6	5.3	0.8	52	< 0.2	2.7	0.078	0.1	65	0.5	70
E-14012	9.1	< 1	1.4	4.2	< 0.5	30	< 0.2	4.2	0.083	< 0.1	58	0.2	49
E-14013	7.4	< 1	1.2	4.0	< 0.5	30	< 0.2	3.1	0.089	< 0.1	64	0.2	82
E-14014	11.9	< 1	6.6	5.5	< 0.5	28	< 0.2	4.2	0.105	0.1	88	0.3	213
E-14015	9.4	< 1	2.2	5.7	0.5	25	< 0.2	5.0	0.098	0.1	74	0.2	123
E-14016	19.1	< 1	2.5	4.2	< 0.5	26	< 0.2	4.1	0.075	0.1	64	0.2	124
E-14017	27.2	< 1	4.5	6.3	1.1	52	< 0.2	2.7	0.068	0.2	99	0.1	94
E-14018	12.2	< 1	1.9	4.8	< 0.5	28	< 0.2	3.5	0.092	0.1	85	0.2	129
E-14019	25.1	< 1	3.1	7.3	0.7	53	< 0.2	5.5	0.052	0.2	75	< 0.1	130
E-14020	19.4	< 1	4.4	4.5	< 0.5	37	< 0.2	2.1	0.043	0.2	67	< 0.1	171
E-14021	17.2	< 1	3.5	5.3	< 0.5	29	< 0.2	3.6	0.067	0.2	75	0.1	151
E-14022	19.9	< 1	4.1	5.2	0.5	48	< 0.2	3.0	0.045	0.2	71	< 0.1	117
E-14023	18.8	< 1	4.0	6.7	0.6	49	< 0.2	4.5	0.083	0.2	82	0.3	139
E-14024	4.4	< 1	1.4	0.6	3.3	218	< 0.2	0.3	0.013	< 0.1	9	0.1	11
E-14025	22.2	< 1	2.5	5.0	< 0.5	59	< 0.2	5.0	0.048	0.1	58	< 0.1	91
E-14026	34.3	< 1	1.3	6.0	1.0	45	< 0.2	8.8	0.077	0.2	37	0.3	147
E-14027	26.4	< 1	1.7	4.6	0.9	50	< 0.2	3.5	0.042	0.1	37	< 0.1	79
E-14028	32.8	< 1	4.7	6.0	0.6	58	< 0.2	2.6	0.038	0.2	80	< 0.1	138
E-14029	27.7	< 1	3.8	6.1	0.7	46	< 0.2	6.9	0.059	0.1	73	< 0.1	124
E-14030	29.2	< 1	3.3	5.2	0.5	49	< 0.2	3.0	0.035	0.2	75	< 0.1	135
E-14031	27.1	< 1	3.4	6.3	0.5	48	< 0.2	4.7	0.036	0.2	64	< 0.1	109
E-14032	24.6	< 1	2.4	6.2	0.8	61	< 0.2	3.8	0.042	0.1	55	< 0.1	142
E-14033	23.2	< 1	1.8	4.9	< 0.5	48	< 0.2	2.6	0.033	0.1	39	< 0.1	115
E-14034	26.1	< 1	1.9	5.9	0.7	53	< 0.2	3.1	0.040	0.1	46	< 0.1	139
E-14035	36.9	< 1	1.6	6.7	0.7	20	< 0.2	10.2	0.065	0.2	36	0.2	116
E-14036	29.9	< 1	1.4	5.6	< 0.5	17	< 0.2	9.1	0.069	0.2	33	0.2	115
E-14037	41.4	< 1	1.5	6.0	< 0.5	30	< 0.2	10.4	0.059	0.2	34	0.1	133
E-14038	27.7	< 1	1.4	5.8	< 0.5	17	< 0.2	12.7	0.084	0.2	33	0.2	121
E-14039	41.4	< 1	1.4	4.7	< 0.5	19	< 0.2	5.4	0.070	0.2	43	0.2	112
E-14040	26.8	< 1	1.0	2.3	< 0.5	41	< 0.2	1.9	0.036	0.2	29	0.2	231
E-14041	26.5	< 1	1.4	4.3	< 0.5	34	< 0.2	4.3	0.073	0.2	39	0.3	130
E-14042	9.6	< 1	0.6	2.6	1.1	62	< 0.2	1.4	0.034	< 0.1	56	< 0.1	50
E-14043	11.3	< 1	1.5	5.0	0.5	27	< 0.2	3.9	0.076	< 0.1	71	0.2	63
E-14044	16.4	< 1	0.4	2.0	0.7	46	< 0.2	1.2	0.043	< 0.1	36	0.2	18
E-14045	11.2	< 1	1.1	5.2	0.7	41	< 0.2	4.6	0.111	0.1	73	0.1	125
E-14046	7.2	< 1	1.2	4.7	< 0.5	32	< 0.2	2.6	0.158	0.1	116	0.3	37
E-14047	7.3	< 1	1.0	3.7	< 0.5	39	< 0.2	3.3	0.094	< 0.1	53	0.2	33
E-14048	8.5	< 1	1.4	4.3	< 0.5	33	< 0.2	3.3	0.094	< 0.1	62	0.2	44
E-14049	11.5	< 1	2.1	3.2	< 0.5	30	< 0.2	1.5	0.051	0.1	56	0.1	36

Analyte Symbol	Pb	S	Sb	Sc	Se	Sr	Te	Th	Ti	Tl	V	W	Zn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Detection Limit	0.1	1	0.1	0.1	0.5	1	0.2	0.1	0.001	0.1	2	0.1	1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
E-14050	18.1	< 1	2.6	4.1	< 0.5	32	< 0.2	4.0	0.057	0.1	71	0.2	223
E-14051	13.2	< 1	1.3	6.4	< 0.5	45	< 0.2	7.0	0.086	0.2	73	0.1	60
E-14052	6.4	< 1	0.9	2.7	< 0.5	39	< 0.2	6.9	0.080	< 0.1	57	0.2	32
E-14053	8.6	< 1	1.2	3.2	< 0.5	33	< 0.2	2.3	0.072	< 0.1	55	0.3	45
E-14054	8.7	< 1	1.3	3.5	< 0.5	30	< 0.2	3.8	0.083	< 0.1	57	0.2	38
E-14055	8.8	< 1	1.5	3.0	< 0.5	33	< 0.2	2.9	0.065	< 0.1	54	0.2	171
7R-51504	1.7	< 1	47.5	0.5	2.3	363	< 0.2	0.2	0.001	< 0.1	4	< 0.1	5

QC

Analyte Symbol	Ag	Al	As	Au	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P
Unit Symbol	ppm	%	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	%
Detection Limit	0.1	0.01	0.5	0.5	20	0.5	0.1	0.01	0.1	0.1	1	0.1	0.01	1	0.01	0.01	1	0.01	1	0.1	0.001	0.1	0.001
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-4 Meas	4.0	2.83	98.6	469	< 20	17.1	22.1	0.87	0.2	15.0	59	6670	3.12	11	0.13	1.71	48	1.50	159	299	0.140	39.9	0.106
GXR-4 Cert	4.0	7.20	98.0	470	4.50	1640	19.0	1.01	0.860	14.6	64.0	6520	3.09	20.0	0.110	4.01	64.5	1.66	155	310	0.564	42.0	0.120
GXR-6 Meas	< 0.1	8.16	212		< 20	928	0.1	0.15	< 0.1	14.2	86	67.9	5.79	16	< 0.01	1.23	11	0.40	1030	1.5	0.077	23.9	0.032
GXR-6 Cert	1.30	17.7	330		9.80	1300	0.290	0.180	1.00	13.8	96.0	66.0	5.58	35.0	0.0680	1.87	13.9	0.609	1010	2.40	0.104	27.0	0.0350
OREAS 922 (AQUA REGIA) Meas	0.7	3.03	6.3					0.41	0.3	21.3		2210	5.28					1.25					
OREAS 922 (AQUA REGIA) Cert	0.851	2.72	6.12					0.324	0.280	19.4		2176	5.05					1.33					
OREAS 923 (AQUA REGIA) Meas	1.7	3.14	7.0					0.41	0.4	23.3		4570	6.10					1.49					
OREAS 923 (AQUA REGIA) Cert	1.62	2.80	7.07					0.326	0.40	22.2		4248	5.91					1.43					
E-14013 Orig	< 0.1	1.80	21.7	6.3	< 20	170	0.2	0.35	0.1	8.4	27	10.4	2.54	7	< 0.01	0.18	12	0.49	225	1.0	0.034	14.0	0.028
E-14013 Dup	< 0.1	1.66	22.4	< 0.5	< 20	174	0.2	0.31	0.1	8.4	28	10.9	2.63	8	< 0.01	0.16	10	0.46	240	0.9	0.030	13.7	0.024
E-14027 Orig	0.2	1.63	152	6.6	< 20	119	0.8	0.78	0.2	7.1	10	12.9	3.37	7	< 0.01	0.14	43	0.33	750	11.8	0.038	5.1	0.081
E-14027 Dup	0.1	1.65	159	1.3	< 20	118	0.8	0.75	0.2	7.3	10	13.1	3.65	8	< 0.01	0.13	39	0.31	793	11.8	0.035	5.0	0.077
E-14040 Orig	0.9	1.07	97.3	24.9	< 20	265	0.9	0.53	1.8	11.2	7	17.0	2.77	6	< 0.01	0.16	27	0.17	5880	2.8	0.028	5.7	0.093
E-14040 Dup	0.9	1.14	99.5	7.0	< 20	255	1.0	0.55	1.8	11.6	9	18.0	2.90	7	< 0.01	0.16	26	0.19	6030	2.7	0.033	5.9	0.096
E-14054 Orig	0.1	1.56	15.8	4.6	< 20	187	0.2	0.38	< 0.1	7.4	23	14.5	2.43	5	< 0.01	0.16	13	0.38	226	0.8	0.033	14.5	0.021
E-14054 Dup	< 0.1	1.72	15.3	< 0.5	< 20	172	0.2	0.34	< 0.1	7.1	23	14.0	2.40	6	< 0.01	0.16	13	0.42	226	0.8	0.032	13.8	0.022

QC

Analyte Symbol	Pb	S	Sb	Sc	Se	Sr	Te	Th	Ti	Tl	V	W	Zn
Unit Symbol	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
Detection Limit	0.1	1	0.1	0.1	0.5	1	0.2	0.1	0.001	0.1	2	0.1	1
Analysis Method	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS	AR-MS
GXR-4 Meas	47.7	2	3.9	6.9	5.5	72	0.9	17.5	0.132	2.9	82	24.3	77
GXR-4 Cert	52.0	1.77	4.80	7.70	5.60	221	0.970	22.5	0.29	3.20	87.0	30.8	73.0
GXR-6 Meas	98.1	< 1	1.8	23.8	< 0.5	29	< 0.2	4.0		1.8	178	< 0.1	129
GXR-6 Cert	101	0.0160	3.60	27.6	0.940	35.0	0.0180	5.30		2.20	186	1.90	118
OREAS 922 (AQUA REGIA) Meas	57.7	< 1	0.7										261
OREAS 922 (AQUA REGIA) Cert	60	0.386	0.57										256
OREAS 923 (AQUA REGIA) Meas	83.4	< 1	0.7										351
OREAS 923 (AQUA REGIA) Cert	81	0.684	0.58										335
E-14013 Orig	7.5	< 1	1.2	4.1	< 0.5	30	< 0.2	3.4	0.089	< 0.1	64	0.2	82
E-14013 Dup	7.4	< 1	1.3	3.8	< 0.5	30	< 0.2	2.8	0.088	< 0.1	64	0.2	83
E-14027 Orig	25.8	< 1	1.8	4.8	0.9	51	< 0.2	3.6	0.044	0.1	37	< 0.1	79
E-14027 Dup	27.1	< 1	1.7	4.4	0.9	49	< 0.2	3.4	0.040	0.1	36	< 0.1	78
E-14040 Orig	25.6	< 1	1.0	2.1	< 0.5	41	< 0.2	1.4	0.034	0.2	27	0.2	223
E-14040 Dup	28.1	< 1	1.0	2.6	< 0.5	41	< 0.2	2.3	0.039	0.2	30	0.2	238
E-14054 Orig	8.8	< 1	1.4	3.7	< 0.5	32	< 0.2	3.7	0.090	< 0.1	56	0.3	38
E-14054 Dup	8.6	< 1	1.3	3.4	< 0.5	28	< 0.2	3.9	0.075	< 0.1	57	0.2	37

# Appendix IIA - Table of Results

Sample	UTM_E	UTM_N	Ag_ppm	Al_pcmt	As_ppm	Au_ppb	B_ppm	Ba_ppm	Bi_ppm	Ca_pcmt
Detection Limit			0.1	0.01	0.5	0.5	20	0.5	0.1	0.01
E-14001	543002	6594069	0.05	3.29	28.2	10.1	10	1520	0.3	0.48
E-14002	543025	6594070	0.05	2.31	19.6	6.7	10	142	0.1	0.27
E-14003	543052	6594073	0.05	1.89	12.5	3.2	10	64.9	0.1	0.23
E-14004	543076	6594072	1	2.29	429	8.1	10	90.4	0.2	0.22
E-14005	543084	6594065	0.4	0.86	8.9	7.6	10	36.7	0.05	4.53
E-14006	543103	6594069	0.2	1.8	21.4	2.6	10	153	0.1	0.38
E-14007	543126	6594069	0.05	2.3	28.8	2.4	10	137	0.2	0.23
E-14008	543149	6594068	0.05	2.54	28.4	0.6	10	193	0.2	0.37
E-14009	543174	6594070	0.05	1.14	45.1	3.6	10	158	0.1	1.17
E-14010	543199	6594070	0.1	1.73	39	6	10	172	0.2	0.87
E-14011	543228	6594073	0.1	2.07	17.4	7.5	10	266	0.2	0.9
E-14012	543252	6594071	0.05	1.9	26.8	1.5	10	137	0.2	0.39
E-14013	543273	6594071	0.05	1.73	22	0.25	10	172	0.2	0.33
E-14014	543300	6594072	0.05	2.53	52.4	11.8	10	137	0.3	0.34
E-14015	543325	6594066	0.05	2.52	42.9	0.25	10	153	0.3	0.26
E-14016	543352	6594071	0.05	1.76	102	3.9	10	91.2	0.4	0.3
E-14017	543378	6594075	0.05	2.77	187	3.7	10	169	0.4	0.71
E-14018	543400	6594071	0.05	1.72	92.6	6.4	10	141	0.4	0.32
E-14019	543398	6593972	0.1	2.15	131	11.5	10	158	0.5	0.76
E-14020	543377	6593969	0.1	1.97	155	8.9	10	166	0.5	0.44
E-14021	543350	6593967	0.1	1.9	143	1.4	10	128	0.5	0.36
E-14022	543326	6593967	0.2	2.07	142	14.5	10	154	0.5	0.64
E-14023	543301	6593967	0.1	1.91	177	8.4	10	133	0.5	0.65
E-14024	543276	6593971	0.1	0.62	13.6	96.3	10	80.1	0.1	4.41
E-14025	543251	6593967	0.05	1.6	92	3.6	10	156	0.4	0.85
E-14026	543375	6593753	0.2	1.64	339	6.6	10	82.8	1.3	0.74
E-14027	543398	6593750	0.1	1.64	156	4	10	118	0.8	0.76
E-14028	543428	6593750	0.05	2.53	201	4.9	10	179	0.7	0.74
E-14029	543450	6593752	0.05	1.59	137	7.4	10	138	0.5	0.7
E-14030	543476	6593750	0.05	2.15	141	6.2	10	149	0.7	0.7
E-14031	543498	6593752	0.05	2.23	153	9.1	10	143	0.8	0.51
E-14032	543525	6593752	0.2	2.18	111	9.8	10	201	0.6	0.81
E-14033	543549	6593749	0.1	1.74	81.6	3.9	10	153	0.6	0.52
E-14034	543577	6593753	0.05	1.98	95	2.4	10	152	0.9	0.6
E-14035	543572	6593656	0.2	1.48	236	5.5	10	87	1.7	0.31
E-14036	543547	6593654	0.2	1.24	184	1.8	10	79.1	1.1	0.31
E-14037	543525	6593650	0.2	1.43	236	0.25	10	100	1.6	0.5
E-14038	543501	6593651	0.2	1.18	160	1.4	10	78.3	0.9	0.29
E-14039	543473	6593650	0.2	1.25	217	3.3	10	78.8	1.5	0.27
E-14040	543452	6593650	0.9	1.11	98.4	15.9	10	260	1	0.54
E-14041	543425	6593651	0.5	1.24	134	0.6	10	161	1.2	0.54
E-14042	543396	6593649	0.3	1.89	12.9	9.4	10	144	0.2	1.11
E-14043	543345	6593756	0.2	2.67	32	4.7	10	95.4	0.2	0.47
E-14044	543298	6593749	0.3	1.42	6.7	2.8	10	117	0.3	0.57
E-14045	543229	6593748	0.2	2.57	15.5	1.5	10	128	0.2	0.57
E-14046	543209	6593755	0.05	2.05	17.5	0.25	10	172	0.2	0.39
E-14047	543176	6593751	0.05	1.46	7.3	0.25	10	122	0.1	0.52
E-14048	543147	6593745	0.05	1.94	11.6	1.9	10	168	0.2	0.45
E-14049	543124	6593750	0.05	1.63	234	18.4	10	166	0.2	0.32
E-14050	543097	6593751	0.05	2.29	235	2.1	10	131	0.3	0.43
E-14051	543123	6593649	0.1	2.95	13.3	0.25	10	390	0.3	0.53
E-14052	543150	6593650	0.05	1.03	10.5	1.2	10	120	0.2	0.47
E-14053	543175	6593650	0.05	1.26	10.1	0.25	10	141	0.1	0.38
E-14054	543200	6593653	0.05	1.64	15.5	0.25	10	180	0.2	0.36
E-14055	543219	6593653	0.05	1.83	17.1	0.25	10	109	0.2	0.46
7R-51504	543097	6593781	0.2	0.18	2270	530	10	15.8	0.05	12.3
Sample results < detection have been replaced with half the detection limit										









## Appendix IIA - Table of Results

Sample	Moisture	Colour	Material
Detection Lit			
E-14001	dry	r-br	silt between rk chips
E-14002	dry	y-br	silt between rk chips
E-14003	dry	y-br	silt between rk chips
E-14004	dry	r-br	
E-14005	wet	blk	Augered blk organic
E-14006	moist	y-br	silt
E-14007	moist	o-br	silt
E-14008	moist	br	silt
E-14009	wet	blk-gry	Augered blk organic, gry clay
E-14010	wet	o-gry	clay
E-14011	moist	o-br	silt
E-14012	moist	o-br	silt
E-14013	moist	o-br	silt
E-14014	moist	o-br	silt between rk chips
E-14015	moist		silt between rk chips
E-14016	moist	o-br	silt between rk chips
E-14017	moist	br	sand
E-14018	moist	br	silt and fine talus
E-14019	moist	br	silt between talus
E-14020	moist	br	silt between rk chips
E-14021	moist	r-br	soil
E-14022	moist	br	
E-14023	moist	br	silt between rk chips
E-14024	wet	blk	Augered blk organic
E-14025	wet	blk	Augered blk organic + silt
E-14026	wet	br-blk	Augered blk organic + clay
E-14027	wet	y-br	Augered silt + sand
E-14028	wet	o-br	silt + sand
E-14029	moist	br	soil between talus
E-14030	moist	y-br	soil no rocks
E-14031	moist	br	silt between talus
E-14032	moist	br	silt between talus
E-14033	moist	br	silt between talus
E-14034	moist	br	silt between talus blocks
E-14035	moist	br	silt between talus blocks
E-14036	moist	br	silt between talus blocks
E-14037	moist	br	silt between talus blocks
E-14038	moist	br	sandy soil between talus
E-14039	moist	br	sandy soil between talus
E-14040	moist	br	sandy soil between talus
E-14041	dry	br	soil w rubble
E-14042	dry	br	soil w rubble
E-14043	dry	br	soil w rubble
E-14044	dry	br	silt
E-14045	dry	br	
E-14046	moist	y-br	soil
E-14047	moist	br	soil w rubble
E-14048	moist	br	sandy soil
E-14049	moist	grey	
E-14050	moist	y-br	silt between talus
E-14051	moist	br	soil
E-14052	moist	y-br	silty
E-14053	moist	br	silty
E-14054	moist	y-br	silty with a few rock frags
E-14055	moist	y-br	silt between talus
7R-51504	N/A	N/A	N/A
Sample res			

## Appendix IIA - Table of Results

Sample	Comments
Detection Lit	
E-14001	Argillite O/C and rubble
E-14002	Argillite O/C on ridgetop
E-14003	Argillite O/C w tr py on east side of ridgetop
E-14004	Veining and vuggy in chips
E-14005	Gully bottom- some qtz chips in sample
E-14006	Easy side of gully
E-14007	Glacial rubble - Previous MMI #A00230769
E-14008	Near main gully and ATV road, steep N/S trending argillite bluff beside Eng Crk
E-14009	Beside Eng Crk in gully w auger
E-14010	mottled colour at E edge of Eng Crk gully
E-14011	low on west facing slope
E-14012	low on west facing slope
E-14013	
E-14014	Argillite talus
E-14015	Nearly on ridge crest, rounded rubble
E-14016	Ridge crest nearly flat, rounded blders, garlic smell?
E-14017	Alder jungle, auger sample, nearly flat
E-14018	Alder jungle, auger sample, nearly flat - end of line
E-14019	Angular talus of Diorite
E-14020	Angular argillite clasts in quartzite, sedimentary breccia, quartzite wacke, non-magnetic
E-14021	
E-14022	
E-14023	Near Eng Crk, Diorite Porphyry
E-14024	Near Eng Crk, Diorite Porphyry
E-14025	
E-14026	In Eng Crk marsh
E-14027	E edge Eng Crk marsh - less clay
E-14028	Good B horizon at bottom of slope
E-14029	Angular talus of Basalt
E-14030	
E-14031	Angular talus of Diorite Porphyry
E-14032	Very angular talus of Diorite Porphyry w plag+ hb phenocrysts tr pyrrhotite
E-14033	Angular talus of Granodiorite
E-14034	Angular large 1-4 foot talus boulders of all rock types including basalt - end of line
E-14035	50+ m wide slide alder zone w all rock types especially basalt w blk phenos - maybe hb
E-14036	Slide alder, Granodiorite w lesser basalt that is strongly magnetic and has small feldspar phenos
E-14037	Slide alder, Granodiorite w lesser basalt
E-14038	Same alder rock slide
E-14039	Same slide alder rock slide, all fgr Basalt strongly magnetic, massive and fresh
E-14040	Base of slope, all fgr Basalt strongly magnetic, massive and fresh
E-14041	Engineer creek flats possibly on edge of debris fan
E-14042	2m above valley bottom on E facing slope, all argillite talus from O/C above
E-14043	
E-14044	Ridgetop - scraped off bedrock
E-14045	Argillite outcrops abound
E-14046	Bench at base of cliff - augered 50cm deep hole to get below grey ash layer
E-14047	
E-14048	
E-14049	Top of outcrop and bluff, bry to 2.5 feet depth
E-14050	Just above trench and below powerline trail - rock sample #7R-51504 grabbed from along trench
E-14051	Taken 2m uphill of powerline trail
E-14052	
E-14053	
E-14054	
E-14055	Talus and outcrops uphill and to N and S all Argillite
7R-51504	Rock Sample from old trenches
Sample res	

## Appendix II - Actlabs QA/QC

Report Number: A14-06058																																						
Report Date: 15/9/2014																																						
Analyte Symbol	Ag	Al	As	Au	B	Ba	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Se	Sr	Te	Th	Ti	Tl	V	W	Zn		
Unit Symbol	ppm	%	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	%	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	
Detection Limit	0.1	0.01	0.5	0.5	20	0.5	0.1	0.01	0.1	0.1	1	0.1	0.01	1	0.01	0.01	1	0.01	1	0.1	0	0.1	0	0.1	1	0.1	0.1	0.5	1	0.2	0.1	0	0.1	2	0.1	1		
GXR-4 Meas	4	2.83	98.6	469	< 20	17.1	22.1	0.87	0.2	15	59	6670	3.12	11	0.13	1.71	48	1.5	159	299	0.14	39.9	0.11	47.7	2	3.9	6.9	5.5	72	0.9	17.5	0.13	2.9	82	24.3	77		
GXR-4 Cert	4	7.2	98	470	4.5	1640	19	1.01	0.86	14.6	64	6520	3.09	20	0.11	4.01	64.5	1.66	155	310	0.56	42	0.12	52	1.77	4.8	7.7	5.6	221	0.97	22.5	0.29	3.2	87	30.8	73		
GXR-6 Meas	< 0.1	8.16	212		< 20	928	0.1	0.15	< 0.1	14.2	86	67.9	5.79	16	< 0.01	1.23	11	0.4	1030	1.5	0.08	23.9	0.03	98.1	< 1	1.8	23.8	< 0.5	29	< 0.2	4		1.8	178	< 0.1	129		
GXR-6 Cert	1.3	17.7	330		9.8	1300	0.29	0.18	1	13.8	96	66	5.58	35	0.07	1.87	13.9	0.61	1010	2.4	0.1	27	0.04	101	0.02	3.6	27.6	0.94	35	0.02	5.3		2.2	186	1.9	118		
OREAS 922 (AQUA REGIA) M	0.7	3.03	6.3					0.41	0.3	21.3		2210	5.28					1.25						57.7	< 1	0.7										261		
OREAS 922 (AQUA REGIA) Ce	0.85	2.72	6.12					0.32	0.28	19.4		2176	5.05					1.33						60	0.39	0.57											256	
OREAS 923 (AQUA REGIA) M	1.7	3.14	7					0.41	0.4	23.3		4570	6.1					1.49						83.4	< 1	0.7											351	
OREAS 923 (AQUA REGIA) Ce	1.62	2.8	7.07					0.33	0.4	22.2		4248	5.91					1.43						81	0.68	0.58												335
E-14013 Orig	< 0.1	1.8	21.7	6.3	< 20	170	0.2	0.35	0.1	8.4	27	10.4	2.54	7	< 0.01	0.18	12	0.49	225	1	0.03	14	0.03	7.5	< 1	1.2	4.1	< 0.5	30	< 0.2	3.4	0.09	< 0.1	64	0.2	82		
E-14013 Dup	< 0.1	1.66	22.4	< 0.5	< 20	174	0.2	0.31	0.1	8.4	28	10.9	2.63	8	< 0.01	0.16	10	0.46	240	0.9	0.03	13.7	0.02	7.4	< 1	1.3	3.8	< 0.5	30	< 0.2	2.8	0.09	< 0.1	64	0.2	83		
E-14027 Orig	0.2	1.63	152	6.6	< 20	119	0.8	0.78	0.2	7.1	10	12.9	3.37	7	< 0.01	0.14	43	0.33	750	11.8	0.04	5.1	0.08	25.8	< 1	1.8	4.8	0.9	51	< 0.2	3.6	0.04	0.1	37	< 0.1	79		
E-14027 Dup	0.1	1.65	159	1.3	< 20	118	0.8	0.75	0.2	7.3	10	13.1	3.65	8	< 0.01	0.13	39	0.31	793	11.8	0.04	5	0.08	27.1	< 1	1.7	4.4	0.9	49	< 0.2	3.4	0.04	0.1	36	< 0.1	78		
E-14040 Orig	0.9	1.07	97.3	24.9	< 20	265	0.9	0.53	1.8	11.2	7	17	2.77	6	< 0.01	0.16	27	0.17	5880	2.8	0.03	5.7	0.09	25.6	< 1	1	2.1	< 0.5	41	< 0.2	1.4	0.03	0.2	27	0.2	223		
E-14040 Dup	0.9	1.14	99.5	7	< 20	255	1	0.55	1.8	11.6	9	18	2.9	7	< 0.01	0.16	26	0.19	6030	2.7	0.03	5.9	0.1	28.1	< 1	1	2.6	< 0.5	41	< 0.2	2.3	0.04	0.2	30	0.2	238		
E-14054 Orig	0.1	1.56	15.8	4.6	< 20	187	0.2	0.38	< 0.1	7.4	23	14.5	2.43	5	< 0.01	0.16	13	0.38	226	0.8	0.03	14.5	0.02	8.8	< 1	1.4	3.7	< 0.5	32	< 0.2	3.7	0.09	< 0.1	56	0.3	38		
E-14054 Dup	< 0.1	1.72	15.3	< 0.5	< 20	172	0.2	0.34	< 0.1	7.1	23	14	2.4	6	< 0.01	0.16	13	0.42	226	0.8	0.03	13.8	0.02	8.6	< 1	1.3	3.4	< 0.5	28	< 0.2	3.9	0.08	< 0.1	57	0.2	37		
<b>% Deviation in Standards:</b>																																						
GXR-4	100	39	101	100	444	1	116	86	23	103	92	102	101	55	118	43	74	90	103	96	25	95	88	92	113	81	90	98	33	93	78	46	91	94	79	105		
GXR-6	8	46	64		204	71	34	83	10	103	90	103	104	46	15	66	79	66	102	63	74	89	91	97	6250	50	86	53	83	1111	75		82	96	5	109		
OREAS 922 (AQUA REGIA)	82	111	103					127	107	110		102	105					94						96	259	123											102	
OREAS 923 (AQUA REGIA)	105	112	99					126	100	105		108	103					104						103	146	121												105
<b>% Deviation in Duplicates:</b>																																						
E-14013	100	108	97	1260	100	98	100	113	100	100	96	95	97	88	100	113	120	107	94	111	113	102	117	101	100	92	108	100	100	100	100	121	101	100	100	100	99	
E-14027	200	99	96	508	100	101	100	104	100	97	100	98	92	88	100	108	110	106	95	100	109	102	105	95	100	106	109	100	104	100	106	110	100	103	100	101		
E-14040	100	94	98	356	100	104	90	96	100	97	78	94	96	86	100	100	104	89	98	104	85	97	97	91	100	100	81	100	100	100	61	87	100	90	100	94		
E-14054	100	91	103	920	100	109	100	112	100	104	100	104	101	83	100	100	100	90	100	100	103	105	95	102	100	108	109	100	114	100	95	120	100	98	150	103		

Greater than 20% variability

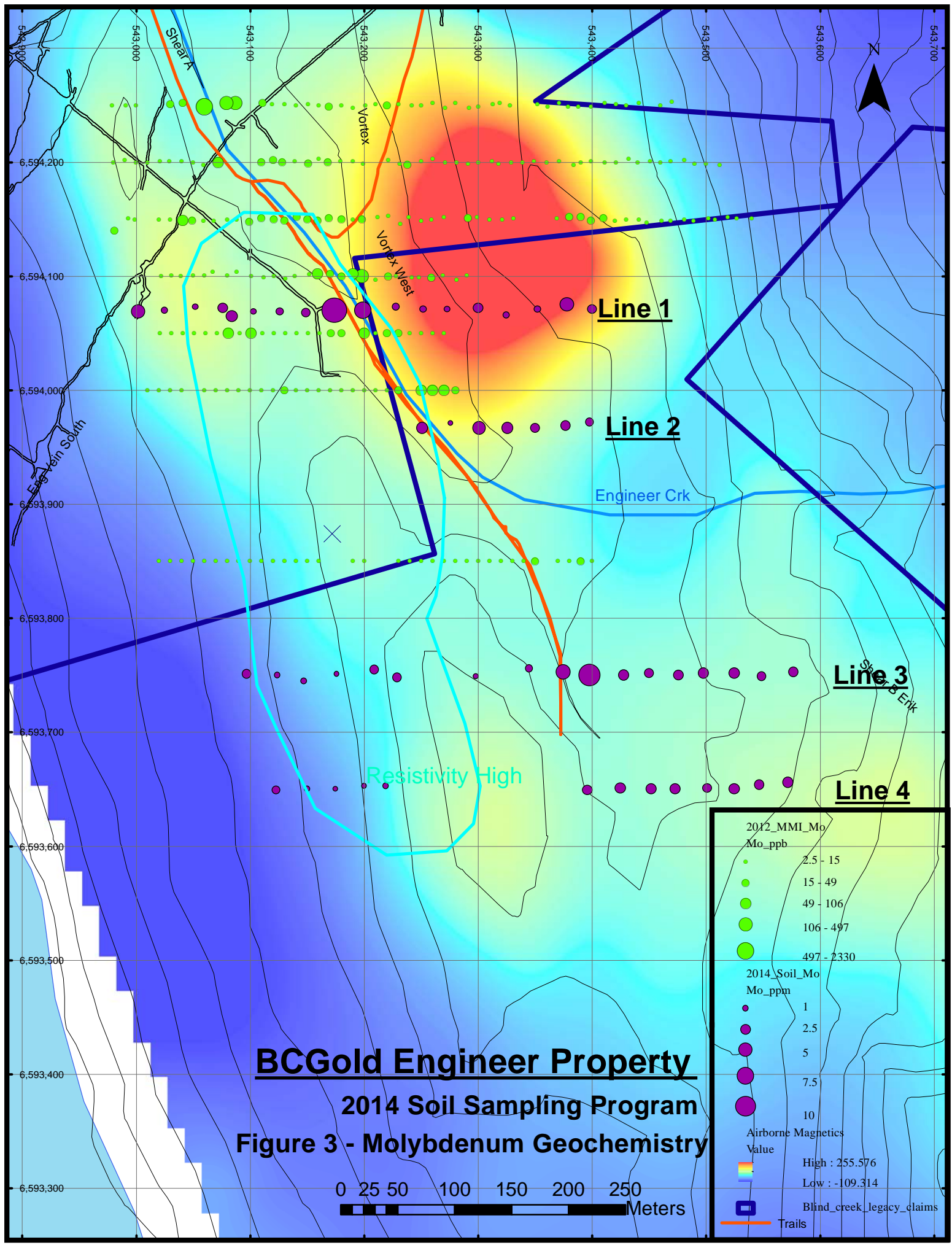
Greater than 50% variability

### Appendix III - Correlation Matrix for the 2014 Soil Sampling Program

	Au_ppi	Ag_ppr	Al_pcn	As_ppr	Ba_ppr	Bi_ppn	Ca_pcr	Cd_ppr	Co_ppr	Cr_ppn	Cu_ppr	Fe_pcn	Ga_ppr	Hg_ppr	K_pcnt	La_ppn	Mg_pc	Mn_pp	Mo_pp	Na_pcr	Ni_ppn	P_pcnt	Pb_ppr	Sb_ppr	Sc_ppn	Se_ppr	Sr_ppn	Th_ppr	Ti_pcnt	Tl_ppm	V_ppm	W_ppr	Zn_ppr			
Au_ppi	1.000																																			
Ag_ppr	0.063	1.000																																		
Al_pcn	-0.271	-0.209	1.000																																	
As_ppr	-0.022	0.370	-0.015	1.000																																
Ba_ppr	0.003	-0.079	0.456	-0.166	1.000																															
Bi_ppn	-0.103	0.228	-0.237	0.615	-0.100	1.000																														
Ca_pcr	0.666	0.097	-0.401	-0.187	-0.092	-0.185	1.000																													
Cd_ppr	0.022	0.561	-0.036	0.169	0.306	0.309	0.096	1.000																												
Co_ppr	-0.197	-0.032	0.733	-0.074	0.560	-0.142	-0.203	0.432	1.000																											
Cr_ppn	-0.174	-0.188	0.606	-0.247	0.131	-0.580	-0.296	-0.302	0.321	1.000																										
Cu_ppr	-0.067	0.232	0.376	-0.160	0.314	-0.226	0.046	0.354	0.524	0.298	1.000																									
Fe_pcn	-0.274	0.030	0.625	0.508	0.289	0.400	-0.464	0.249	0.524	0.080	0.116	1.000																								
Ga_ppr	-0.322	-0.099	0.656	0.379	0.178	0.229	-0.604	0.014	0.394	0.439	0.029	0.787	1.000																							
Hg_ppr	0.116	0.113	-0.218	-0.223	-0.005	-0.235	0.673	0.144	-0.115	-0.159	0.076	-0.446	-0.497	1.000																						
K_pcnt	-0.184	-0.151	0.306	0.353	0.055	0.313	-0.335	-0.014	0.236	-0.043	-0.300	0.571	0.486	-0.398	1.000																					
La_ppn	-0.083	0.079	-0.104	0.508	0.005	0.833	-0.135	0.281	-0.046	-0.687	-0.213	0.524	0.205	-0.240	0.363	1.000																				
Mg_pc	-0.228	-0.331	0.806	-0.015	0.414	-0.315	-0.355	-0.164	0.524	0.687	0.074	0.573	0.673	-0.260	0.335	-0.212	1.000																			
Mn_pp	0.044	0.592	-0.186	0.099	0.119	0.338	0.142	0.755	0.151	-0.396	0.005	0.050	-0.058	0.169	0.062	0.283	-0.308	1.000																		
Mo_pp	-0.068	0.003	-0.073	0.191	0.118	0.161	0.108	0.152	-0.001	-0.157	0.031	0.150	0.009	0.070	0.038	0.228	0.030	0.081	1.000																	
Na_pcr	-0.188	-0.318	0.334	-0.089	0.128	-0.022	-0.017	-0.132	0.209	0.002	-0.075	0.284	0.171	-0.103	0.417	0.270	0.410	0.008	0.268	1.000																
Ni_ppn	-0.123	0.078	0.637	-0.248	0.434	-0.465	-0.112	0.195	0.695	0.631	0.767	0.200	0.215	0.026	-0.243	-0.485	0.500	-0.148	-0.071	-0.092	1.000															
P_pcnt	0.135	0.095	-0.112	0.232	-0.017	0.377	0.373	0.286	0.010	-0.646	-0.123	0.321	-0.093	0.226	0.267	0.618	-0.169	0.332	0.115	0.375	-0.367	1.000														
Pb_ppr	-0.127	0.126	-0.079	0.674	-0.088	0.916	-0.224	0.264	-0.056	-0.549	-0.198	0.573	0.345	-0.305	0.455	0.892	-0.164	0.297	0.186	0.189	-0.468	0.531	1.000													
Sb_ppr	0.065	0.127	0.358	0.518	-0.067	0.013	-0.053	0.053	0.237	0.170	0.007	0.563	0.417	-0.080	0.504	0.071	0.432	-0.065	0.063	0.124	0.167	0.248	0.196	1.000												
Sc_ppn	-0.359	-0.200	0.579	0.420	0.134	0.405	-0.527	-0.053	0.336	0.166	-0.086	0.801	0.733	-0.441	0.615	0.526	0.556	-0.150	0.128	0.454	0.024	0.129	0.522	0.395	1.000											
Se_ppr	0.565	0.183	-0.274	-0.073	0.014	-0.168	0.937	0.153	-0.114	-0.211	0.197	-0.346	-0.523	0.705	-0.348	-0.120	-0.252	0.125	0.245	0.008	0.040	0.340	-0.204	0.021	-0.418	1.000										
Sr_ppn	0.653	0.079	-0.362	-0.192	-0.071	-0.204	0.991	0.094	-0.167	-0.305	0.053	-0.424	-0.572	0.659	-0.273	-0.119	-0.329	0.160	0.108	0.029	-0.117	0.412	-0.215	-0.014	-0.508	0.926	1.000									
Th_ppr	-0.279	-0.078	-0.007	0.338	0.072	0.581	-0.353	0.083	0.029	-0.239	-0.135	0.314	0.164	-0.208	0.110	0.554	-0.051	-0.071	0.027	0.012	-0.150	0.013	0.510	-0.100	0.559	-0.304	-0.402	1.000								
Ti_pcnt	-0.384	-0.335	0.353	-0.315	0.165	-0.202	-0.490	-0.277	0.202	0.650	-0.016	0.059	0.397	-0.259	-0.080	-0.347	0.530	-0.338	-0.147	0.014	0.360	-0.619	-0.297	-0.213	0.304	-0.465	-0.528	0.276	1.000							
Tl_ppm	-0.048	0.347	0.130	0.648	0.164	0.628	-0.003	0.468	0.254	-0.262	0.009	0.548	0.375	0.074	0.454	0.533	0.037	0.378	0.130	0.055	-0.130	0.412	0.655	0.437	0.470	0.067	0.005	0.373	-0.228	1.000						
V_ppm	-0.315	-0.304	0.728	-0.045	0.132	-0.350	-0.467	-0.266	0.438	0.777	0.067	0.495	0.709	-0.341	0.336	-0.317	0.873	-0.327	-0.136	0.292	0.418	-0.240	-0.192	0.422	0.504	-0.413	-0.437	-0.109	0.591	-0.005	1.000					
W_ppr	-0.114	-0.023	-0.058	-0.191	0.318	-0.176	-0.083	-0.003	-0.037	0.266	0.111	-0.206	-0.096	0.029	-0.173	-0.328	0.173	-0.122	0.438	0.015	0.235	-0.441	-0.310	-0.220	-0.080	0.022	-0.130	0.044	0.395	-0.202	0.001	1.000				
Zn_ppr	-0.092	0.172	0.438	0.360	0.573	0.314	-0.290	0.604	0.573	0.020	0.176	0.715	0.556	-0.208	0.310	0.310	0.425	0.326	0.083	-0.024	0.333	0.157	0.356	0.376	0.419	-0.198	-0.279	0.242	0.037	0.491	0.204	0.061	1.000			

Above 0.7  
 Above 0.5





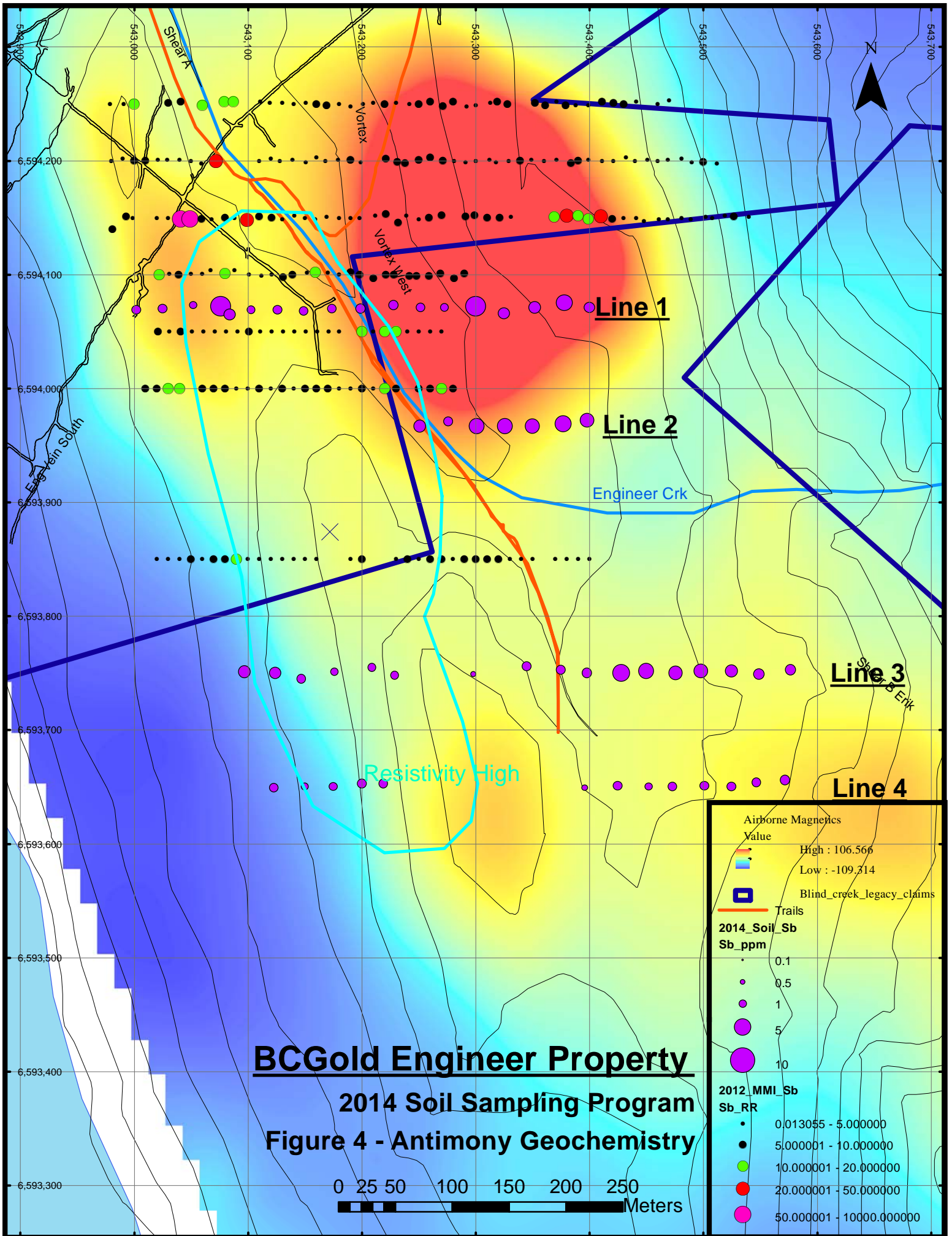
# BCGold Engineer Property

## 2014 Soil Sampling Program

### Figure 3 - Molybdenum Geochemistry



2012_MMI_Mo Mo_ppb	2.5 - 15
	15 - 49
	49 - 106
	106 - 497
	497 - 2330
2014_Soil_Mo Mo_ppm	1
	2.5
	5
	7.5
	10
Airborne Magnetics Value	High : 255.576
	Low : -109.314
	Blind_creek_legacy_claims
	Trails



# BCGold Engineer Property

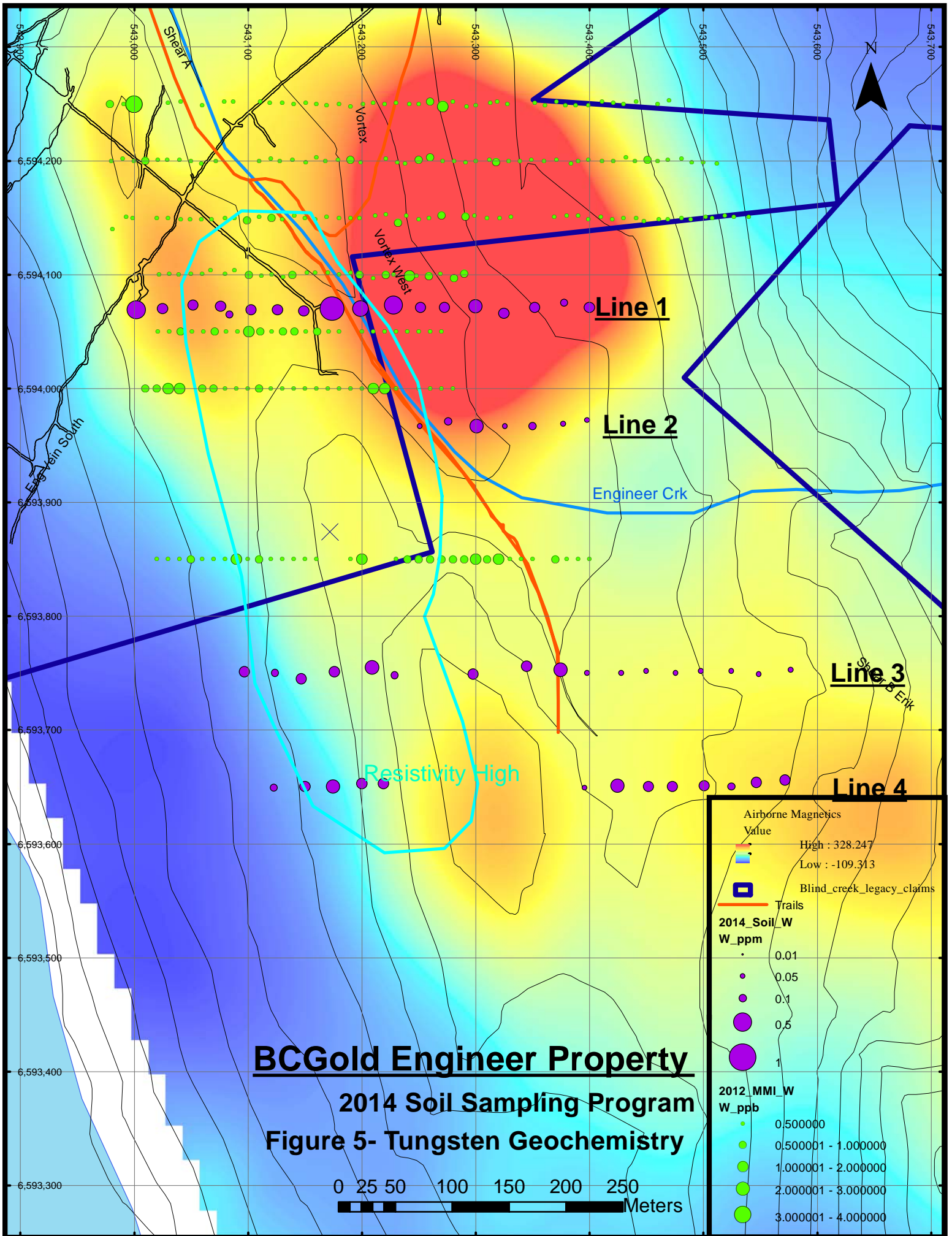
## 2014 Soil Sampling Program

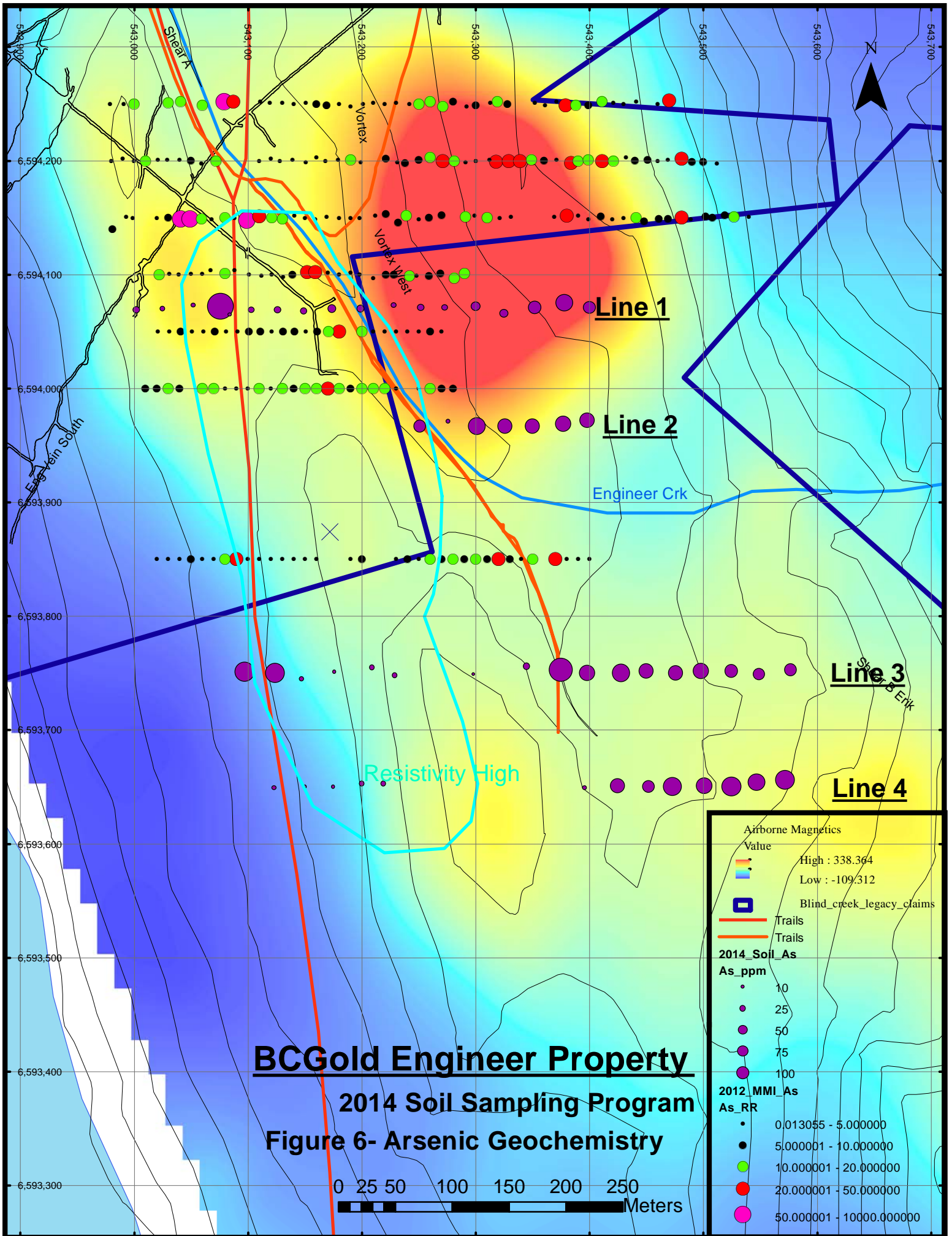
### Figure 4 - Antimony Geochemistry

0 25 50 100 150 200 250  
Meters

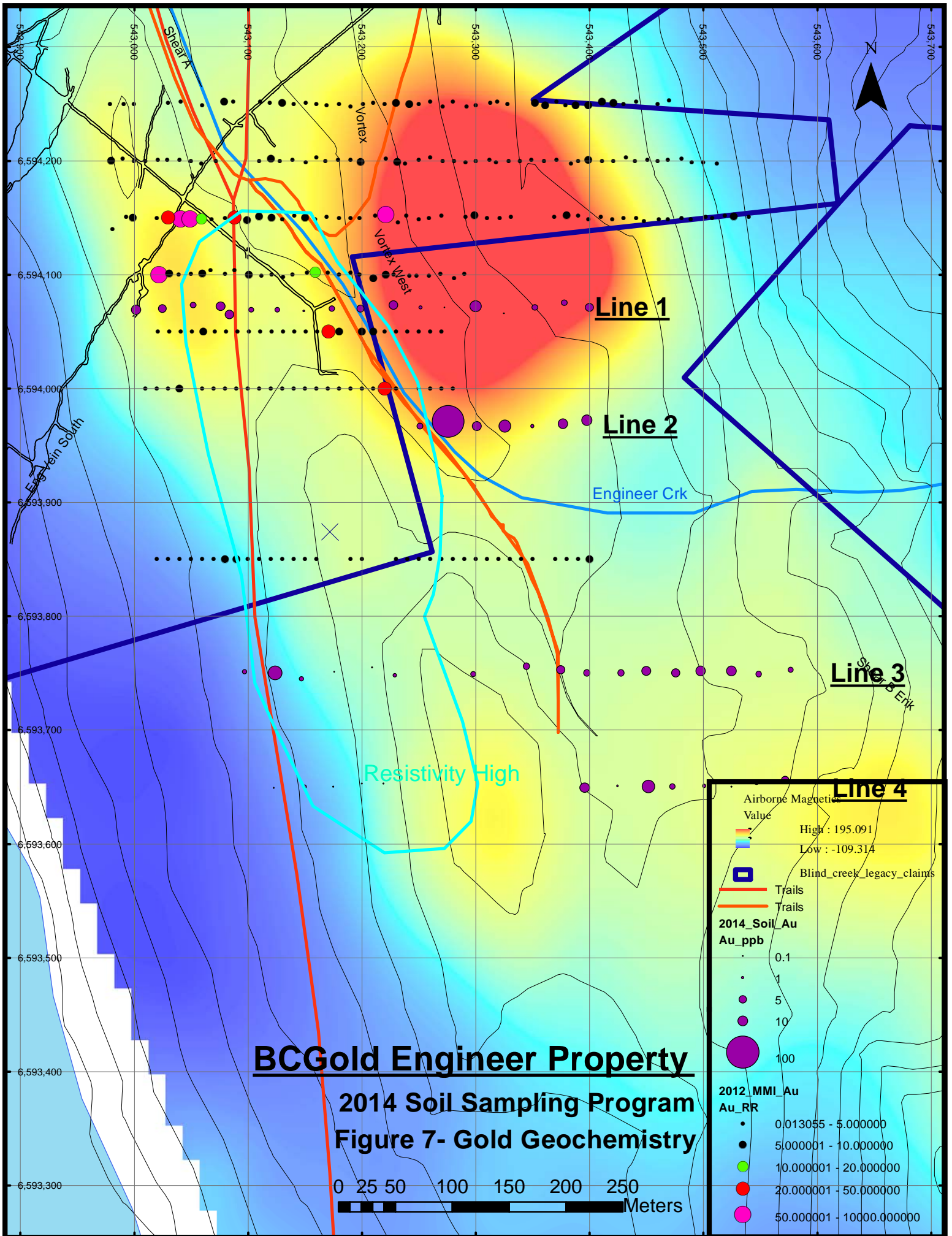
Airborne Magnetics	
Value	High : 106.566 Low : -109.314
	Blind_creek_legacy_claims
	Trails
2014_Soil_Sb	
	Sb_ppm
	0.1
	0.5
	1
	5
	10
2012_MMI_Sb	
	Sb_RR
	0.013055 - 5.000000
	5.000001 - 10.000000
	10.000001 - 20.000000
	20.000001 - 50.000000
	50.000001 - 10000.000000









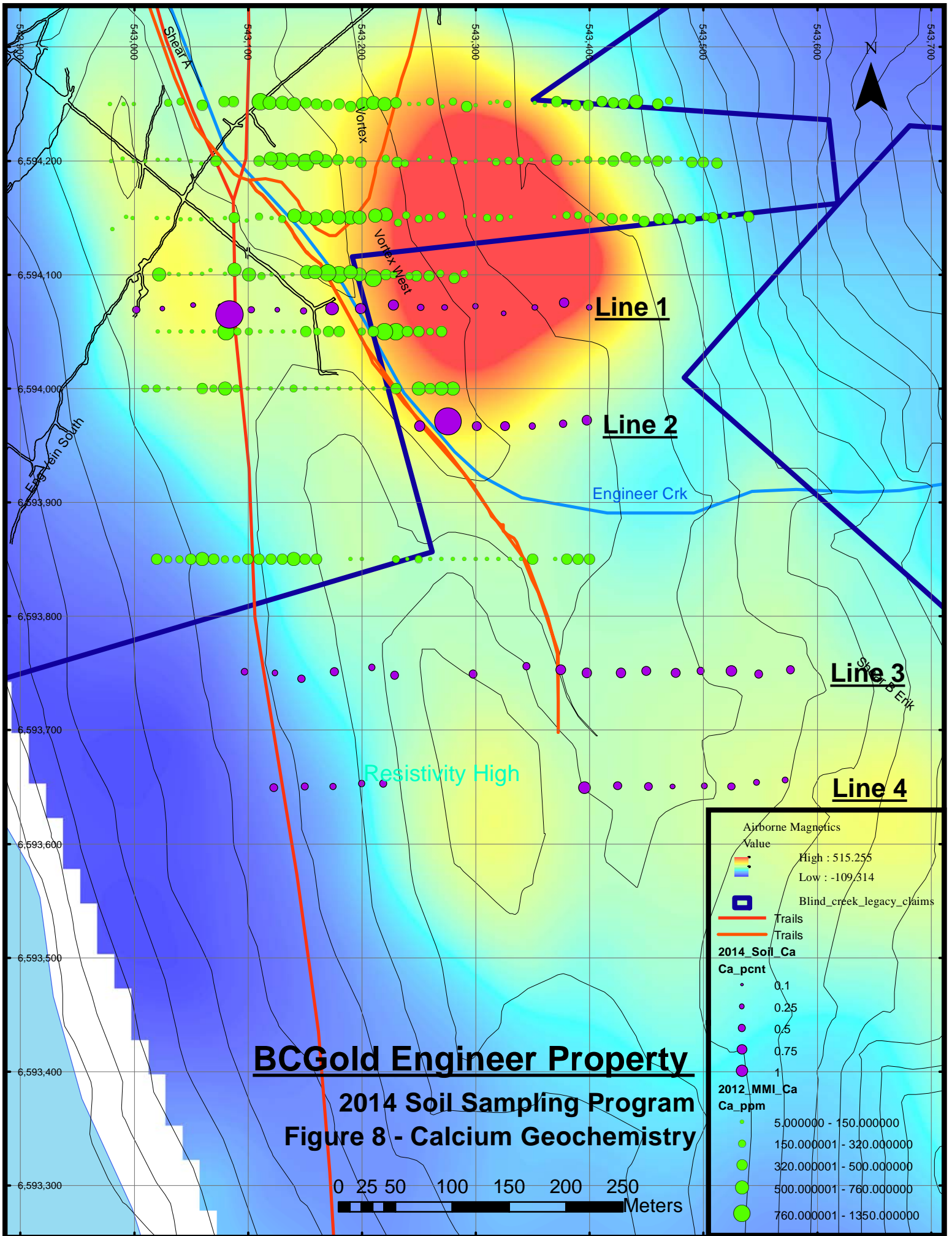


# BCGold Engineer Property

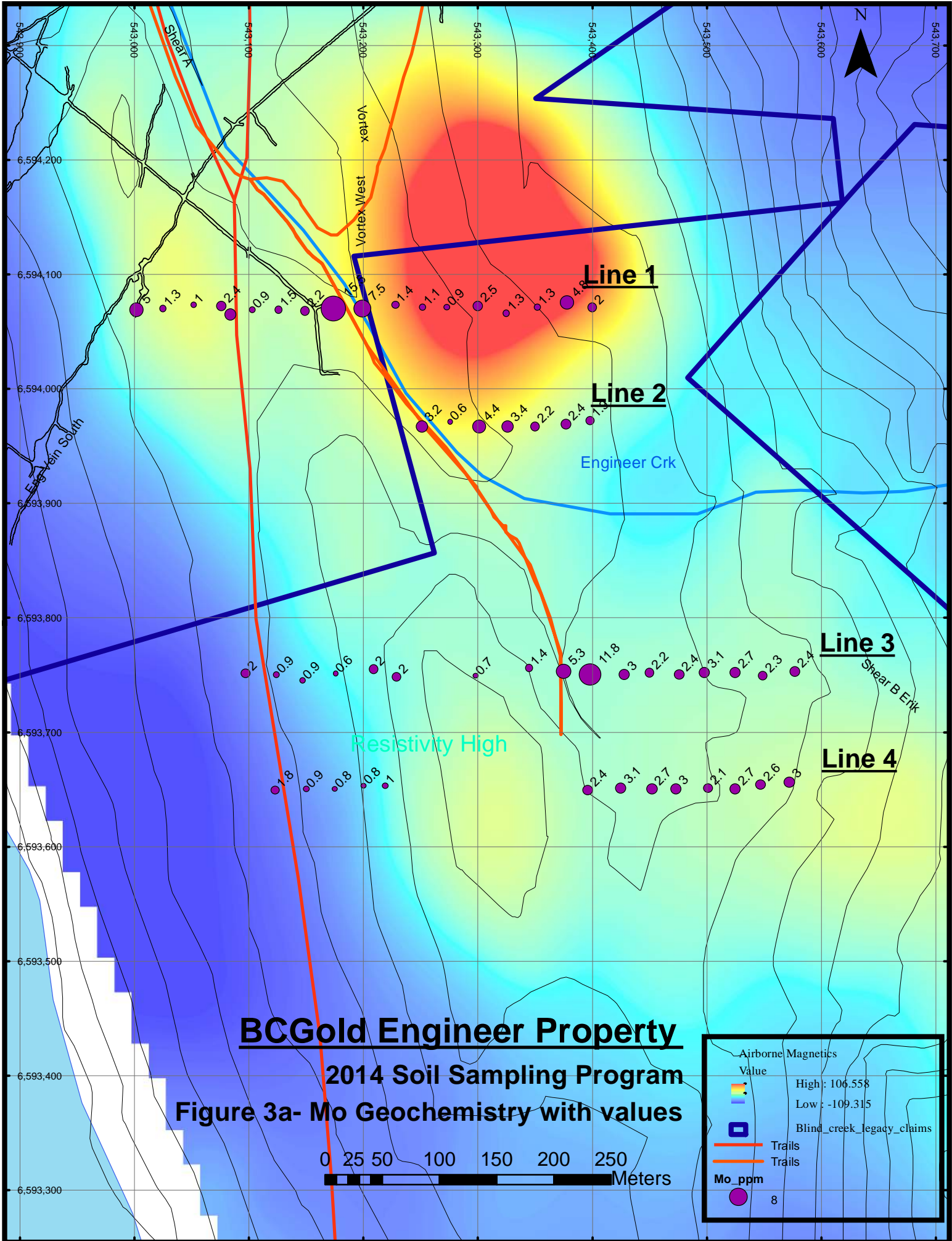
## 2014 Soil Sampling Program Figure 7- Gold Geochemistry

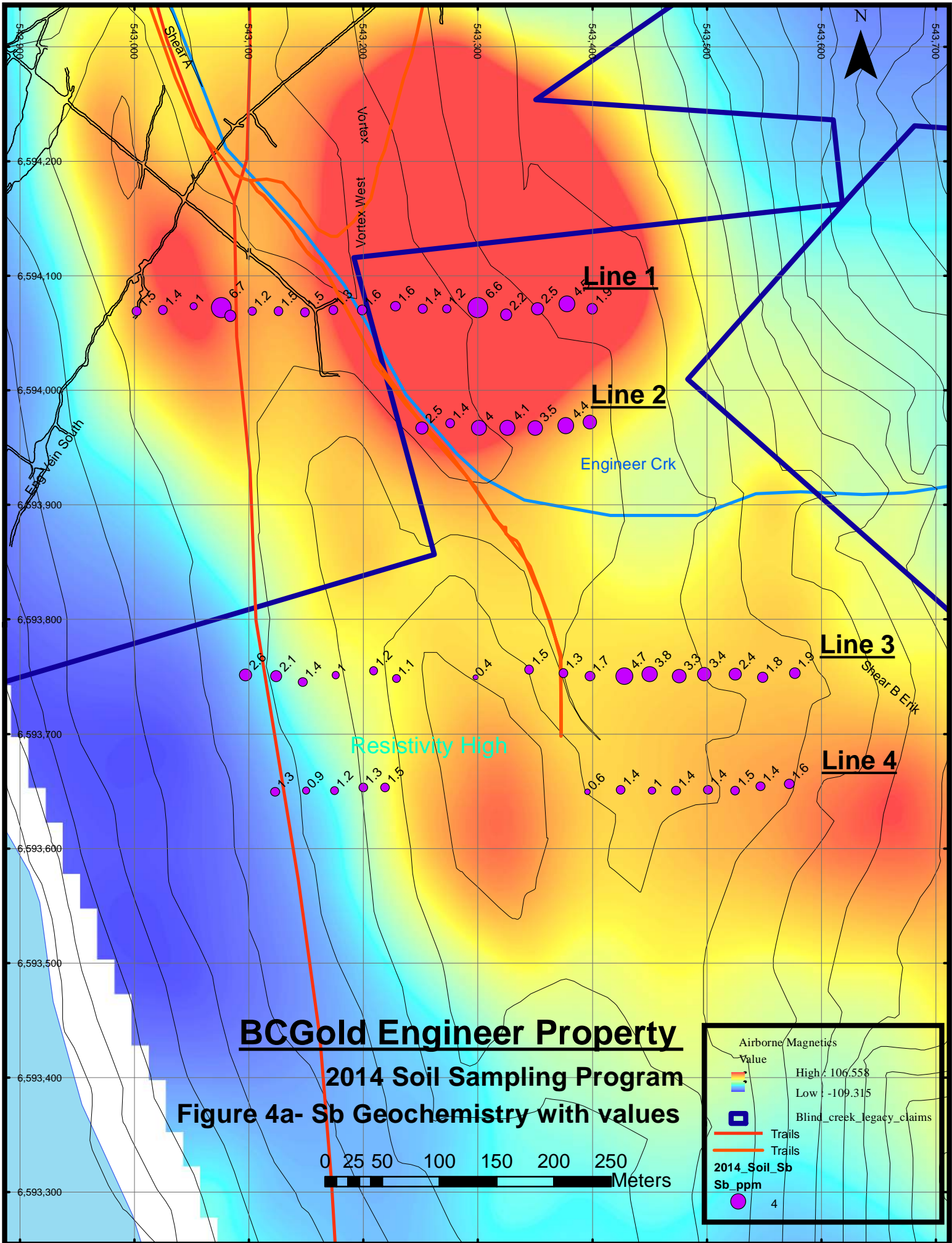


Airborne Magnetic Value	
	High : 195.091
	Low : -109.314
	Blind_creek_legacy_claims
	Trails
	Trails
2014_Soil_Au Au_ppb	
	0.1
	1
	5
	10
	100
2012_MMI_Au Au_RR	
	0.013055 - 5.000000
	5.000001 - 10.000000
	10.000001 - 20.000000
	20.000001 - 50.000000
	50.000001 - 10000.000000

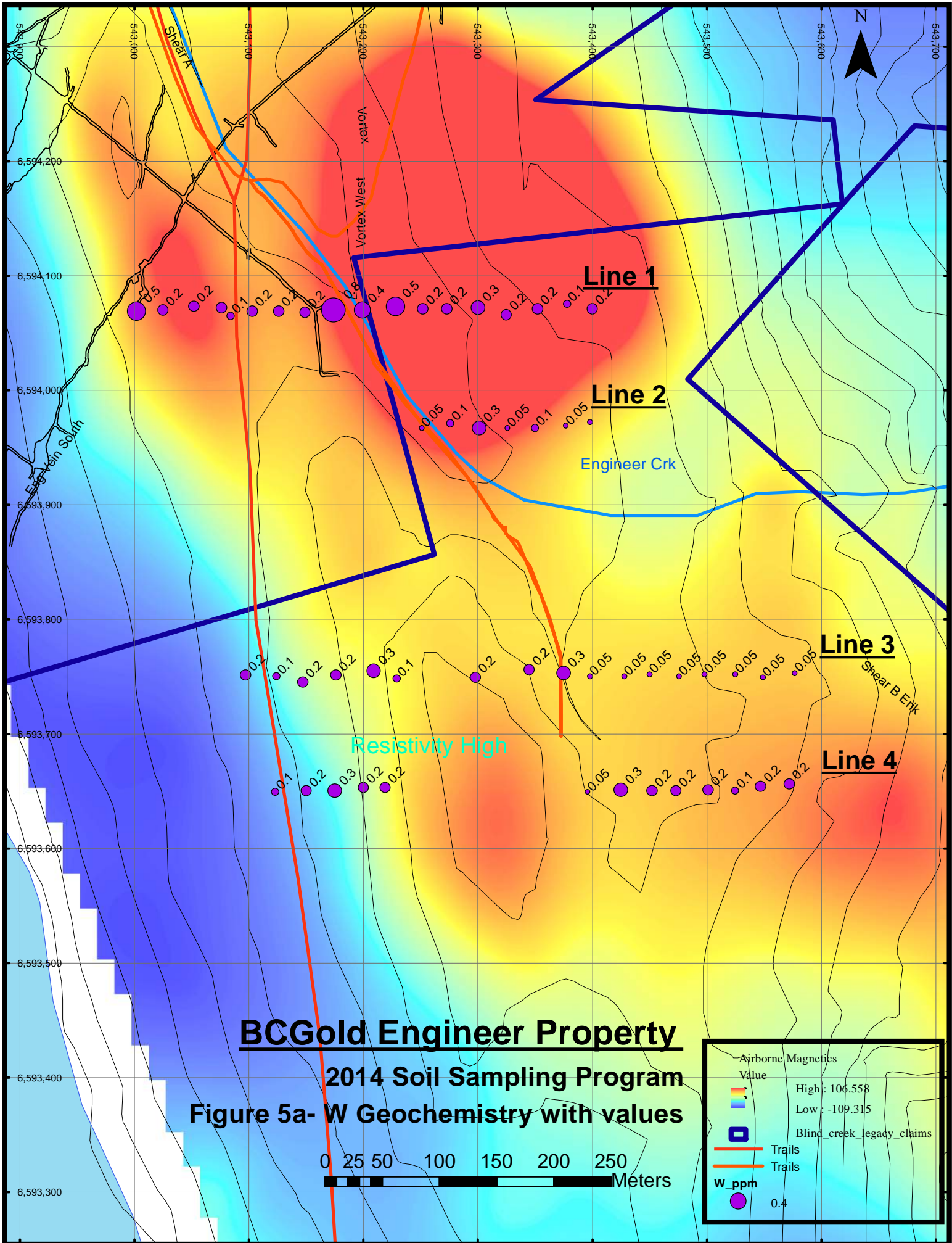


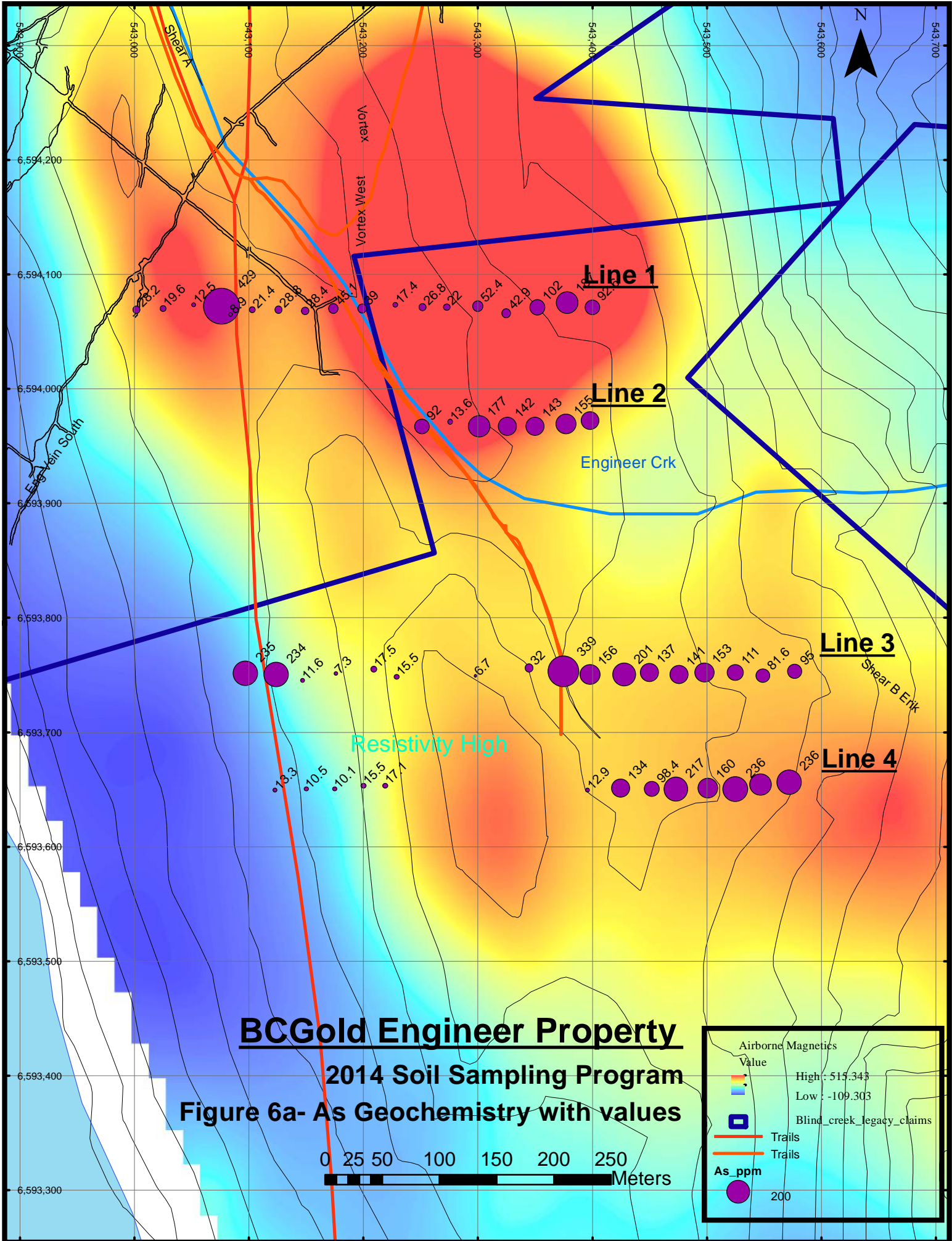










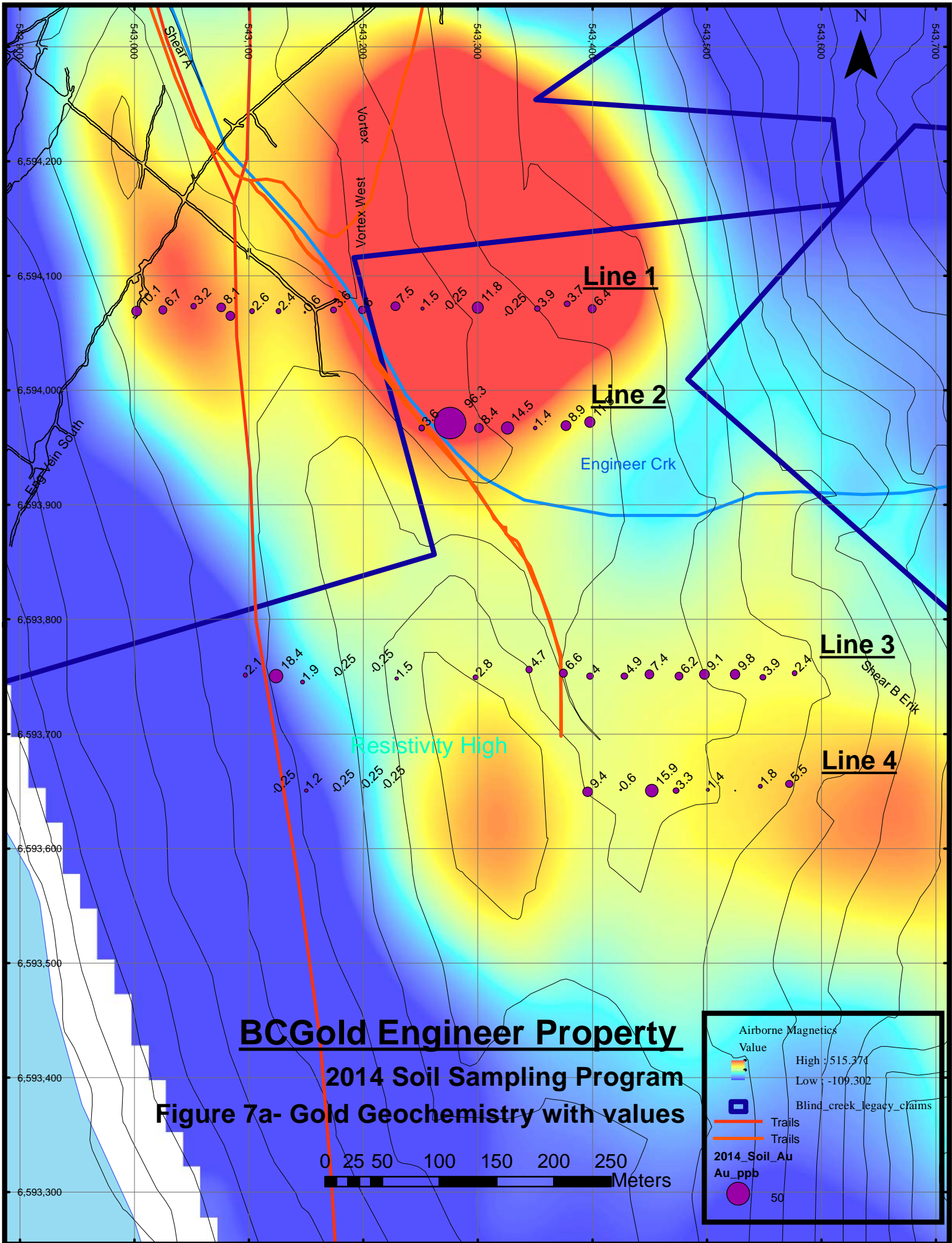


**BCGold Engineer Property**  
**2014 Soil Sampling Program**  
**Figure 6a- As Geochemistry with values**

0 25 50 100 150 200 250 Meters

Airborne Magnetics	
Value	High : 515.343
	Low : -109.303
	Blind_creek_legacy_claims
	Trails
	Trails
	As_ppm
	200

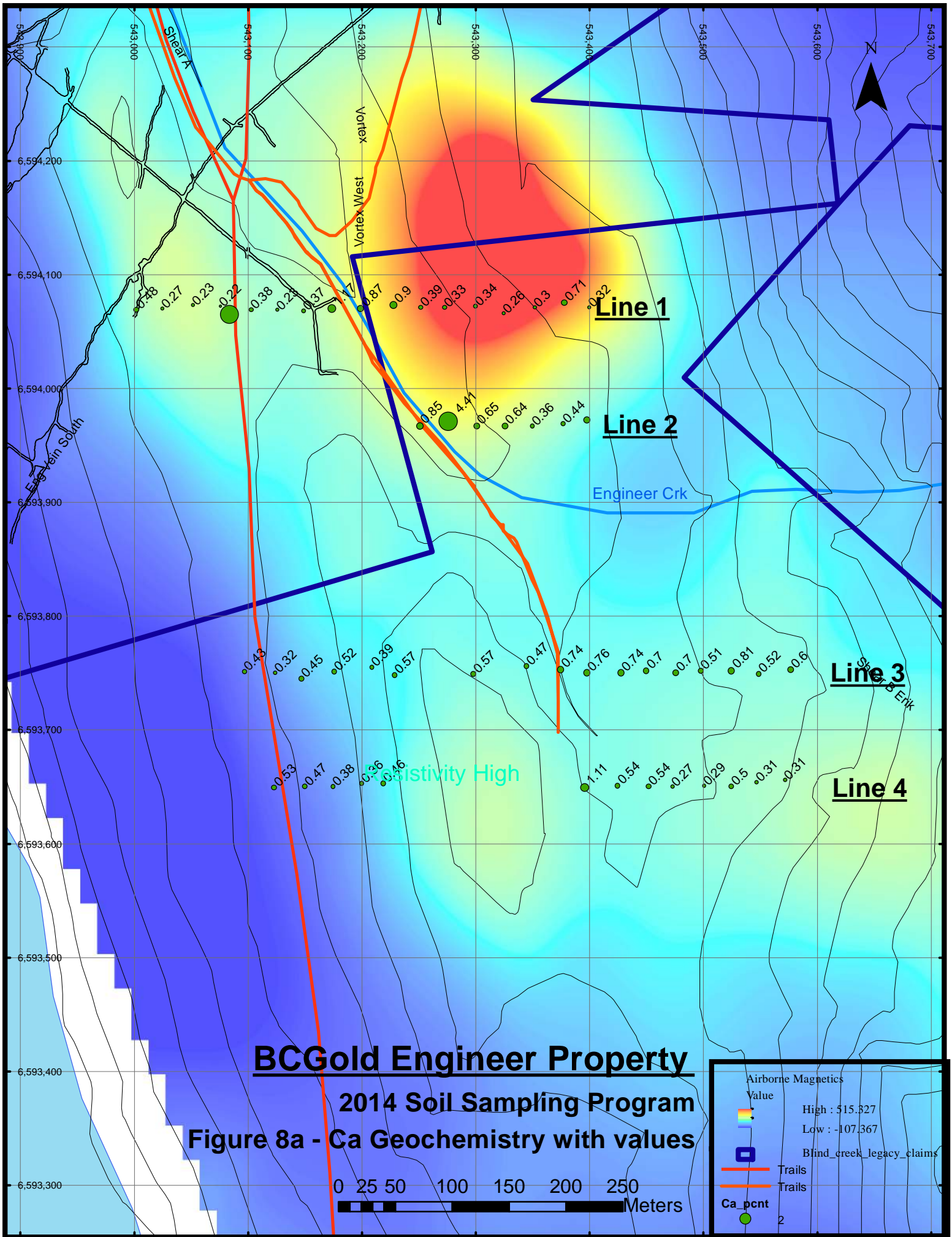




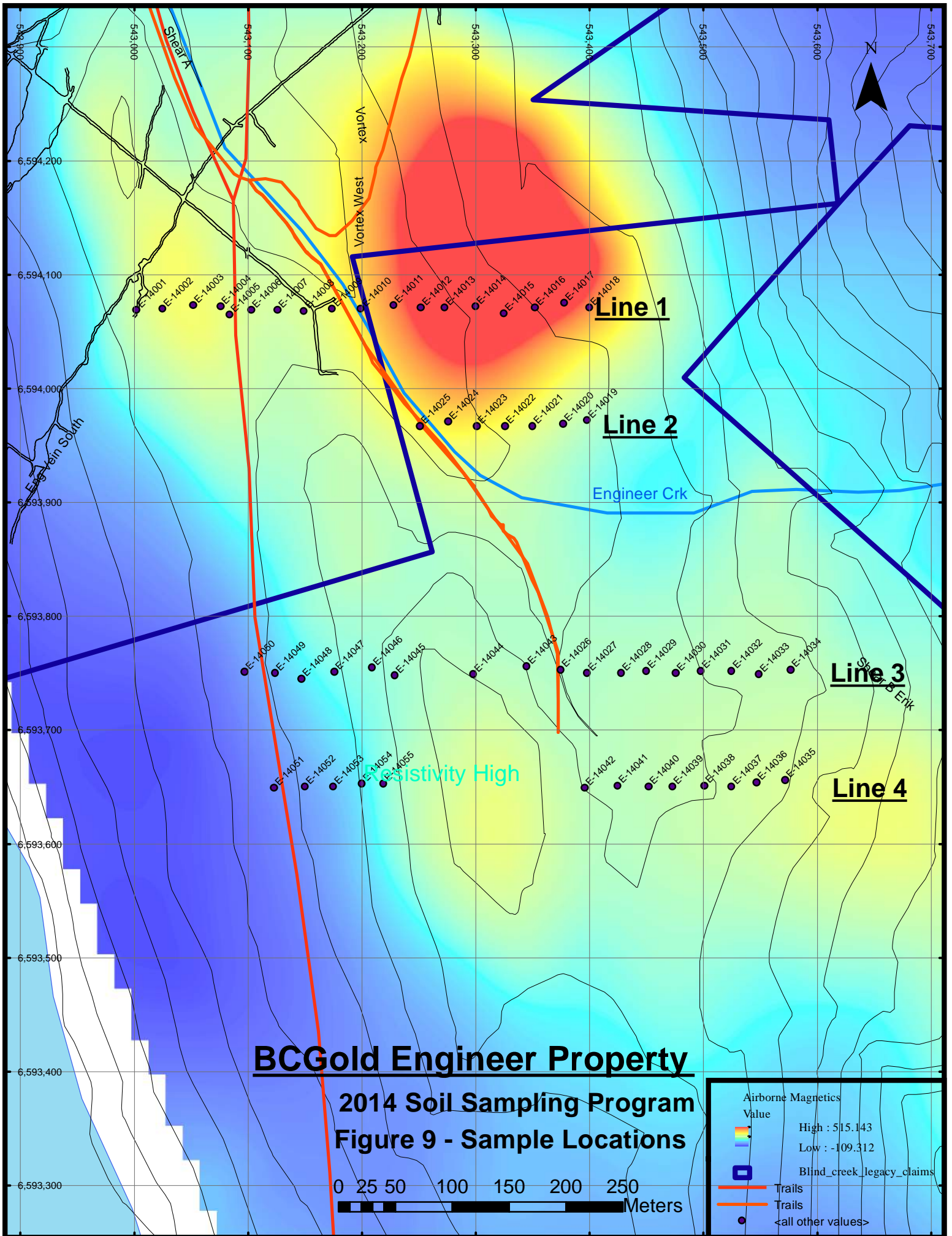
**BCGold Engineer Property**  
**2014 Soil Sampling Program**  
**Figure 7a- Gold Geochemistry with values**

0 25 50 100 150 200 250 Meters

Airborne Magnetics Value	
	High : 515.374
	Low : -109.302
	Blind_creek_legacy_claims
	Trails
	Trails
<b>2014 Soil_Au</b>	
	Au_ppb
	50







# BCGold Engineer Property

## 2014 Soil Sampling Program Figure 9 - Sample Locations



Airborne Magnetics	
Value	
	High : 515.143
	Low : -109.312
	Blind_creek_legacy_claims
	Trails
	<all other values>