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ASSESSMENT REPORT

describing

GEOCHEMICAL SAMPLING AND HAND PITTING

at the

TOULEARY PROPERTY

TL 1-109	YC76097-YC76205
110-183	YC93602-YC93675
184-580	YD30404-YD30800
581-632	YD31571-YD31622

NTS 115O/02 and 03 and 115J/14
Latitude 62°57'N; Longitude 139°10'W

located in the

Dawson Mining District
Yukon Territory

Field work performed between August 23 and September 3, 2012

prepared by

Archer, Cathro & Associates (1981) Limited

for

ATAC RESOURCES LTD.
and
ARCUS DEVELOPMENT GROUP INC.

by

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March 2013

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INTRODUCTION

The Touleary property hosts a Volcanogenic Massive Sulphide (VMS) discovery that lies within the renowned South Klondike District of western Yukon, which encompasses numerous historical and active placer gold mines. This district has recently attracted wider attention due to hard rock exploration successes at the nearby White Gold (Kinross Gold Corporation), Coffee (Kaminak Gold Corporation) and QV (Comstock Metals Ltd.) properties. The Touleary property is owned 50% by ATAC Resources Ltd. and 50% by Arcus Development Group Inc., with Arcus acting as the joint venture operator.

The 2012 work program comprised soil geochemical sampling and hand pitting that was done by Archer, Cathro & Associates (1981) Limited on behalf of Arcus and ATAC. This work was performed between August 23 and September 3, 2012; however, on August 25 the crew worked on the nearby Shamrock property, which is also owned by Arcus and ATAC. The author directed the program and her Statement of Qualifications is in Appendix I.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Touleary property comprises 632 contiguous mineral claims in the Thistle Mountain area of western Yukon. The property is centred at latitude 62°57'N and longitude 139°10'W on NTS map sheets 115O/02 and 03 and 115J/14, as shown on Figure 1. It covers an area of approximately 12,800 ha (128 sq km). The claims are registered with the Dawson Mining Recorder in the name of Archer Cathro, which holds them in trust for Arcus and ATAC. Claim data are listed below while the locations of individual claims are illustrated on Figure 2.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date*</u>
TL 1-109	YC76097-YC76205	April 29, 2026
110-183	YC93602-YC93675	April 29, 2026
184-580	YD30404-YD30800	August 29, 2020
581-632	YD31571-YD31622	August 29, 2020

* Expiry dates include 2012 work, which has been filed for assessment credit but not yet been accepted.

The 2012 work was conducted from a small tent camp on the Touleary property. Mobilization of crew and gear from Dawson City to the Kirkman Creek airstrip was provided by an Islander aircraft, owned and operated by Great River Aviation Ltd. The crew and gear were moved from the airstrip to the temporary camp site using a Hughes 500D helicopter operated by Fireweed Helicopters Ltd. The helicopter was positioned from Kinross' Thistle Creek camp where it was based for the duration of the exploration season. The Thistle Creek camp lies 12 km west-northwest of the Kirkman Creek airstrip.

HISTORY

The Touleary property is located in the headwaters of four creeks that host historical and active placer gold operations in the southern part of the Klondike Goldfields. The area has a rich placer

ARCUS DEVELOPMENT GROUP
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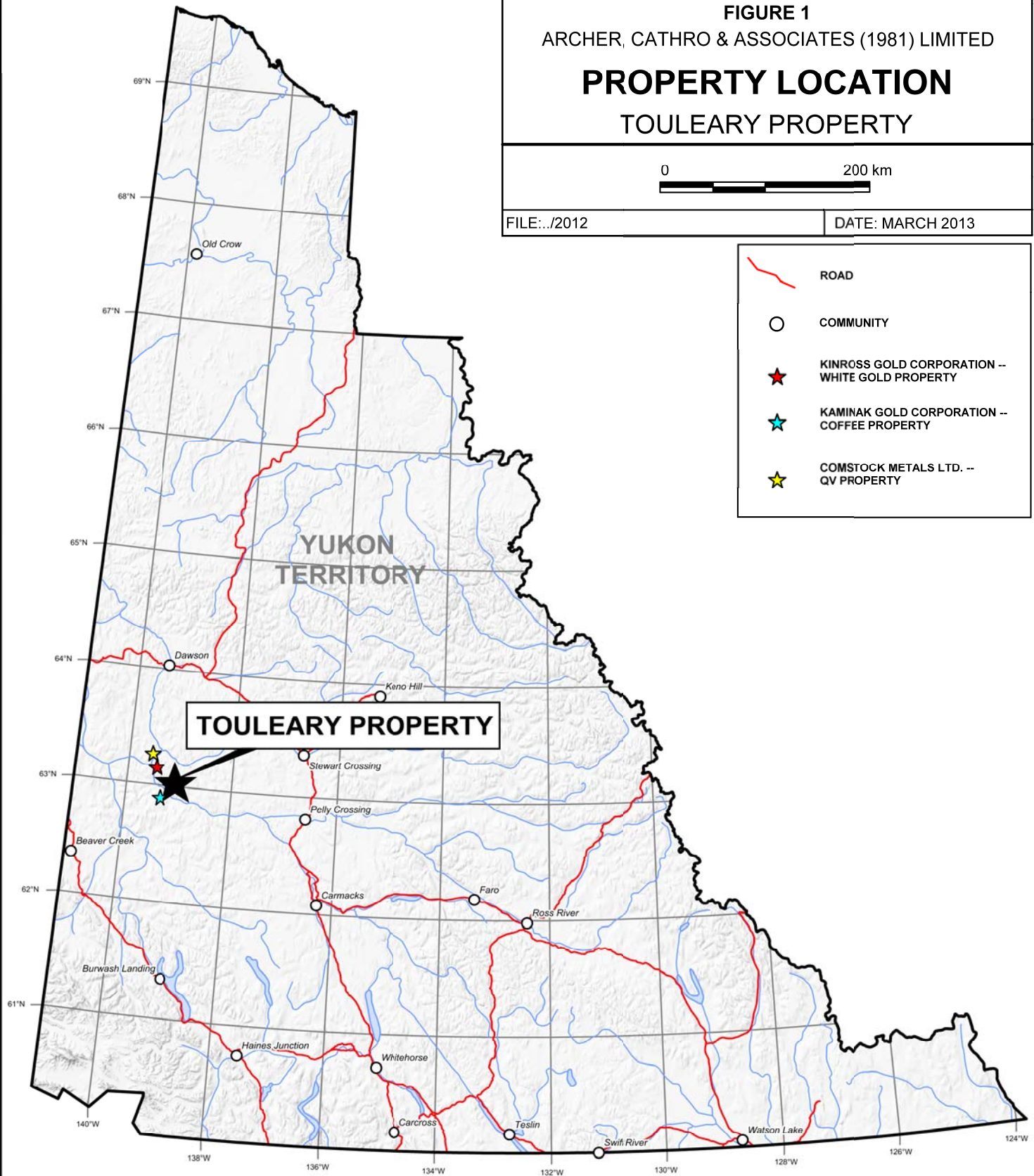
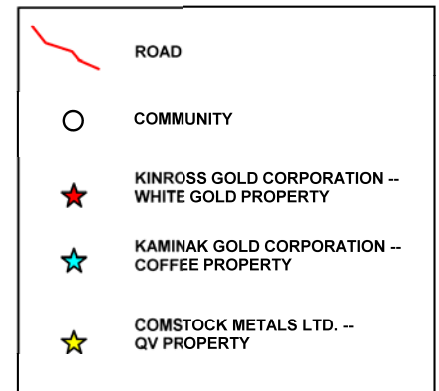
FIGURE 1
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

PROPERTY LOCATION
TOULEARY PROPERTY

0 200 km

FILE:../2012

DATE: MARCH 2013



gold mining history dating back to 1898. Recorded hard rock exploration in the area started in 1936. Mining and exploration histories are described in more detail in the following paragraphs.

Placer History

Thistle, Kirkman, Ballarat and Sparkling creeks are placer gold producers that drain areas covered by the Touleary property (Figure 2). In addition, Touleary Creek is listed as a watercourse with past placer activity, but it is not currently staked. A 1.06 ounce gold nugget was reportedly recovered by panning on Touleary Creek in the early 1980s (pers. comm., J. Stephen, 2010). Table I below lists reported gold production from the primary placer creeks in the Touleary property area.

Table I – Placer Production (after LeBarge, 2007)

Creek	Status	Production (oz. year to year)	Fineness
Thistle	Active	81,540 (1949 to 2006)	848 to 895
Kirkman	Active	13,943 (1914 to 2006)	860 to 896
Sparkling	Not active	2761 (1997 to 1998)	880
Ballarat	Active	16,078 (1978 to 2005)	860

Hard Rock History

Three historical mineral occurrences lie on or adjacent to the Touleary property (Ballarat – 115J 061, Black Fox –115O 014 and Touleary –115J 060). These occurrences are described in the following paragraphs, and their locations are shown on Figure 2.

The Ballarat Occurrence is located on the west side of Ballarat Creek, 700 m east of the property. It was originally staked in 1936. Those claims were allowed to lapse and no further work was done until 1990, when Sparkling Minerals Incorporated performed prospecting, geological mapping and geochemical sampling. In 1990, Sparkling Minerals identified two styles of quartz veining at this occurrence. The first style is inferred to be epithermal and consists of massive interlocking white quartz crystals with occasional fine grained disseminated pyrite and specular hematite. The other style is thought to have originated from a mesothermal system and features quartz with feldspar. The epithermal veins are up to two metres wide and have vertical dips. Limonite forms up to 3% of these veins as fracture coatings and veinlets, while specular hematite comprises approximately 5%. Sparkling Minerals reported that a quartz vein sample with 1% galena yielded 31.71 g/t gold, 75.43 g/t silver and 1.5 % lead and that soil sampling returned up to 811 ppb gold (Andersen, 1991). In 1993, a small trenching program was completed and in 1998, additional soil and stream sediment sampling was performed. The highest gold-in-soil value from this work was 65 ppb (Andersen, 1999). No mineralization or geochemical anomalies are reported from the mesothermal veins. Stakeholder Gold Corp. currently owns claims that cover the Ballarat Occurrence. In 2012, Stakeholder drilled five holes totalling 753 m. The best result was 1.71 g/t gold over 1.0 m.

The Black Fox Occurrence lies 1000 m north of the property on Lulu Creek, a tributary of Thistle Creek. It was originally staked in 1901 and was restaked in 1910 and again in 1914.

From 1970 to 1995, a number of companies staked claims and explored within the area surrounding this occurrence. The most noteworthy results were from a VLF-EM geophysical survey that Faith Mines Ltd. performed in 1995. This survey identified several linear conductors oriented parallel to a large fault (Southam, 1995a), but follow-up soil sampling, which was done at 25 m intervals on lines spaced 200 m apart over the VLF-EM conductors, returned only background values (Southam, 1995b). Claims covering the Black Fox Occurrence are currently owned by Kinross, which has not disclosed its exploration activities or results obtained from them.

The Touleary Occurrence is located on Touleary Creek within the current property boundary. The Minfile database speculates that quartz claims were staked based on previous placer activity. There is no record of any assessment reports having ever been filed for this occurrence.

In 1980, Archer Cathro performed regional exploration in the South Klondike District for the NAT Joint Venture (NAT JV), which comprised Chevron Canada Limited and Armco Mineral Exploration Ltd. The NAT JV program covered much of western Yukon and included reanalyses of splits from over 5000 previously collected samples for gold, silver, arsenic and lead, plus follow up geochemical sampling (Archer and Onasick, 1980). A number of silt samples collected from creeks draining the current Touleary property were analyzed and returned background to moderately anomalous values for gold (up to 28 ppb). Limited follow-up soil sampling returned only background values.

ATAC staked the initial claims comprising the Touleary property in April 2009 and soon afterward optioned them to Arcus. Work performed in 2009 included geochemical sampling and prospecting. A total of 65 rock and 2166 soil samples were collected for analysis. Results from this work were encouraging. The most anomalous rock sample was a limonitic quartz vein with dark grey metallic sulphide patches and rare arsenopyrite blebs, which returned 2.8 g/t gold. Three anomalous zones (Anomalies A to C) were identified through soil sampling. Anomaly A features gold-in-soil values up to 304 ppb, but lacks arsenic support. Anomalies B and C are arsenic-rich (20 to 324 ppm) but contain only background gold values (Smith, 2009).

In 2010, Arcus expanded the Touleary property based on exploration success of companies working nearby, particularly Kinross and Kaminak. The 2010 exploration program on the property comprised geochemical sampling and excavator trenching near Anomaly A. This work was performed from the FellHawk Placer operation on Kirkman Creek. Six trenches totalling 1112 m in length were dug by a Komatsu 325 excavator owned and operated by FellHawk. The trenching program was hindered by permafrost and therefore only 562 m of bedrock were exposed for mapping and sampling. The best result from this program was 0.82 g/t gold and 14.3 g/t silver over 34 m including 2.59 g/t gold and 20 g/t silver over five metres (Smith, 2011).

In March and April 2011, a helicopter-borne magnetic survey was contracted to Precision Geosurveys Inc. of Vancouver, British Columbia. A total of 756.8 line kilometers was flown over the Touleary property. Interpretation of the survey data was completed by Condor Consulting Inc. of Lakewood, Colorado. Details pertaining to this survey are discussed in the Geophysics Section below.

In summer 2011, Arcus performed soil geochemical sampling and diamond drilling on the Touleary property. Five drill holes totalling 935.9 m were completed within Anomaly A, in the area of the 2010 excavator trenching (Table II).

Table II – Drill Hole Data

HOLE	EASTING	NORTHING	ELEVATION	AZM	DIP	FEET	METRES
TL-01-11	594152	6987536	3917	0	-45	768	234.1
TL-02-11	594152	6987483	3862	0	-45	508	154.9
TL-03-11	594200	6987567	3948	0	-45	478	145.7
TL-04-11	594101	6987481	3860	0	-45	508	154.9
TL-05-11	594353	6987715	3979	0	-45	808	246.3

This drilling successfully identified a VMS horizon – the first significant VMS discovery made in Yukon-Tanana Terrane west of the Tintina Fault. A segment of Yukon-Tanana Terrane located east of the Tintina Fault hosts a number of important VMS deposits including the recently opened Wolverine Mine. Table III below highlights significant results from the 2011 drill holes (Smith, 2012). Results from surface sampling are discussed in the Soil Geochemistry section below.

Table III – Significant Drill Intervals

Hole	Section	From (m)	To (m)	Interval (m)	Cu (%)	Ag (g/t)	Au (g/t)	Zn (%)
TL-01-11	4150 E	85.61	91.70	6.09	1.37	14.5	0.80	0.41
TL-02-11	4150 E	124.00	127.17	3.17	2.38	32.9	2.01	1.38
TL-03-11	4200 E	64.21	64.80	0.59	1.42	36.4	1.15	2.81
and		90.36	90.97	0.61	4.01	73.9	2.18	0.93
TL-04-11	4100 E	93.88	106.75	12.87	0.21	7.69	0.55	-
TL-05-11	4200 E	115.62	117.87	2.25	7.18	116	3.55	4.30
and		124.50	138.65	14.15	1.44	16.5	0.77	0.29
including		128.25	134.92	6.67	1.99	27.3	1.22	0.58

In December 2011, Arcus contracted Vancouver Petrographics Limited to create polished thin sections and perform thin section analyses on 10 specimens of Touleary drill core. Observations made by Vancouver Petrographics are incorporated into the Property Geology and Mineralization sections below.

In February 2012, Arcus contracted Dr. V. Bennett to perform Scanning Electron Microscope (SEM) and zircon work on the same 10 samples that were collected for petrographic analyses. Interpretations made during the SEM study are incorporated into the Mineralization Section below. A zircon date was not attainable due to the small sample size.

In June 2012, Patrick Sack of the Yukon Geological Survey (YGS) visited the Touleary property. During his short stay on the property he re-logged TL-05-11, collected samples for whole rock

geochemical analysis and collected 10 kg lithological samples to be used for zircon dating. Results from this work are expected in spring 2013.

GEOMORPHOLOGY

The claims lie within the Dawson Range, immediately east of the Yukon River. Local topography shows moderate relief with elevations ranging from 730 to 1480 m above sea level. Treeline in the area is approximately 1400 m. Higher elevations are vegetated with moss and scrub brush while lower elevations support a mixture of deciduous and evergreen forests with thick buckbrush-, willow- and moss-covered slopes. Bedrock is exposed along ridges and spines at higher elevations and in road cuts at lower elevations.

The Touleary property is located in part of the Dawson Range that escaped Pleistocene glaciation and consequently, the landscape is mature with dendritic drainages forming radial fans off the flanks of upland domes.

Soil profiles in the Dawson Range are complex compared to most other places in Yukon. Due to the absence of glaciation, ridges and spines are deeply weathered and often leached. On hillsides and valley bottoms, the soil profile from surface to bedrock typically consists of the following: a layer of organic matter, which ranges from 10 to 50 cm thick; a layer of volcanic ash from the Mount Churchill eruption, which varies from 0 to 20 cm thick; a layer comprised of loess mixed with soliflucted B and C-horizon residual soil, which ranges from 0 to more than 100 cm thick; and a layer of C-horizon residual soil (Bond, 2007).

The west and central parts of the property are drained by numerous creeks that flow directly to the Yukon River. The eastern part of the property is drained by two main creeks that flow into the Stewart River, a major tributary of the Yukon River.

REGIONAL GEOLOGY

The Touleary property lies within the Yukon-Tanana Terrane (YTT) approximately 100 km southwest of the Tintina Fault (Figure 3). YTT comprises a variety of Late Devonian to Early Mississippian metavolcanic and metasedimentary rocks, and represents both arc and back-arc environments (Colpron and Nelson, 2006; Piercey et al., 2006). The Tintina Fault is a transcurrent structure that experienced about 450 km of dextral strike-slip movement during the Eocene. This movement offset a segment of YTT in the Finlayson Lake District of southeastern Yukon from the main body of YTT, which lies southwest of the fault.

YTT rocks of back-arc affinity occur mainly in the Finlayson Lake District where they are host to four major VMS deposits –Wolverine, Kudzu, Kayah, Fyre Lake and GP4F. Back-arc facies are dominated by bimodal metavolcanic rocks associated with fine-grained carbonaceous metaclastic rocks. The Wolverine Deposit, owned by Yukon Zinc Corporation, is the most advanced deposit hosted in YTT rocks in the Finlayson Lake District. It commenced production in 2012 with a NI 43-101 compliant, measured and indicated mineral resource of 4.46 Mt grading 12.14% zinc, 354.8 g/t silver, 1.16% copper, 1.70 g/t gold and 1.58% lead (Yukon Zinc Corp., 2013).

FIGURE 3

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

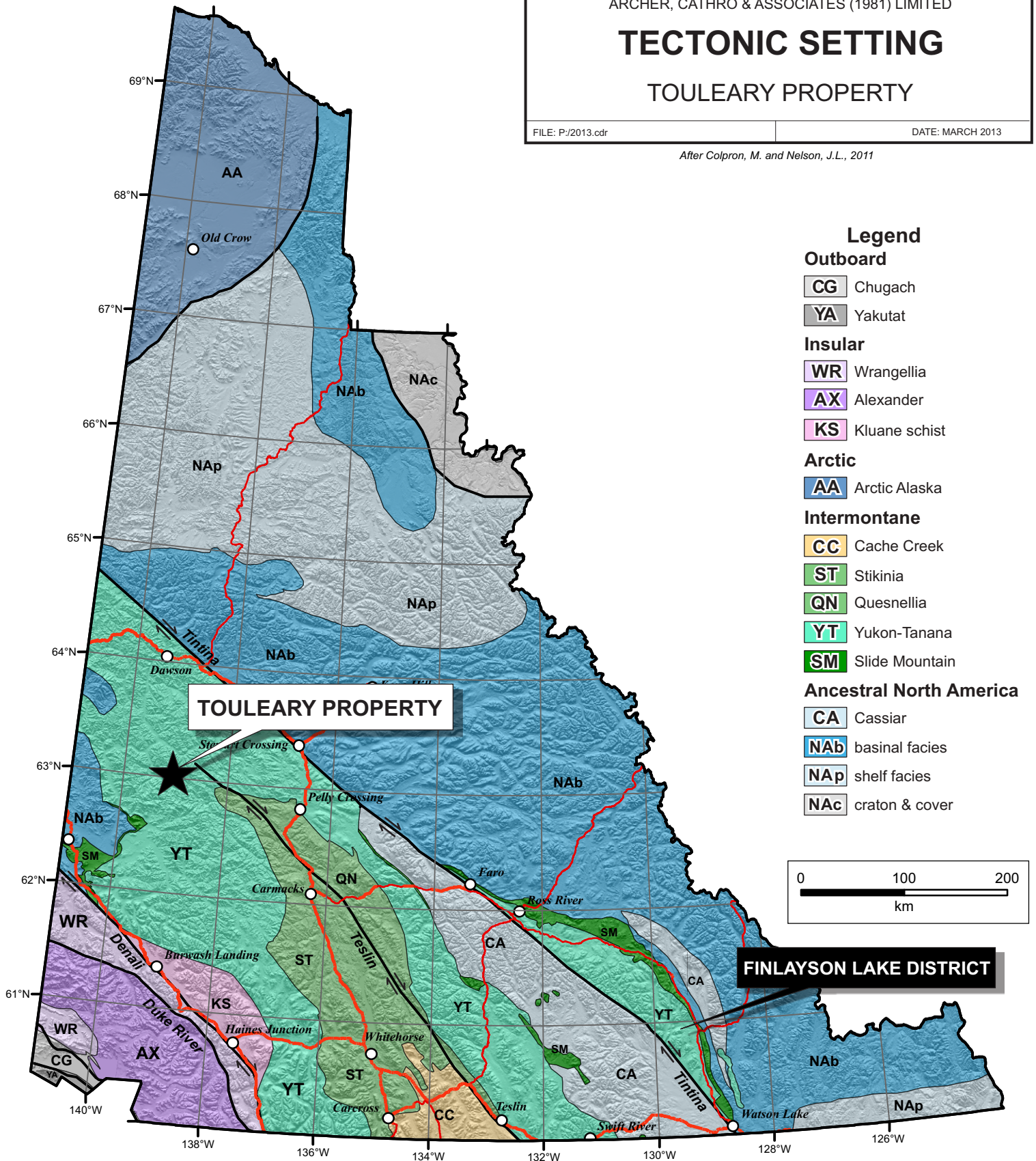
TECTONIC SETTING

TOULEARY PROPERTY

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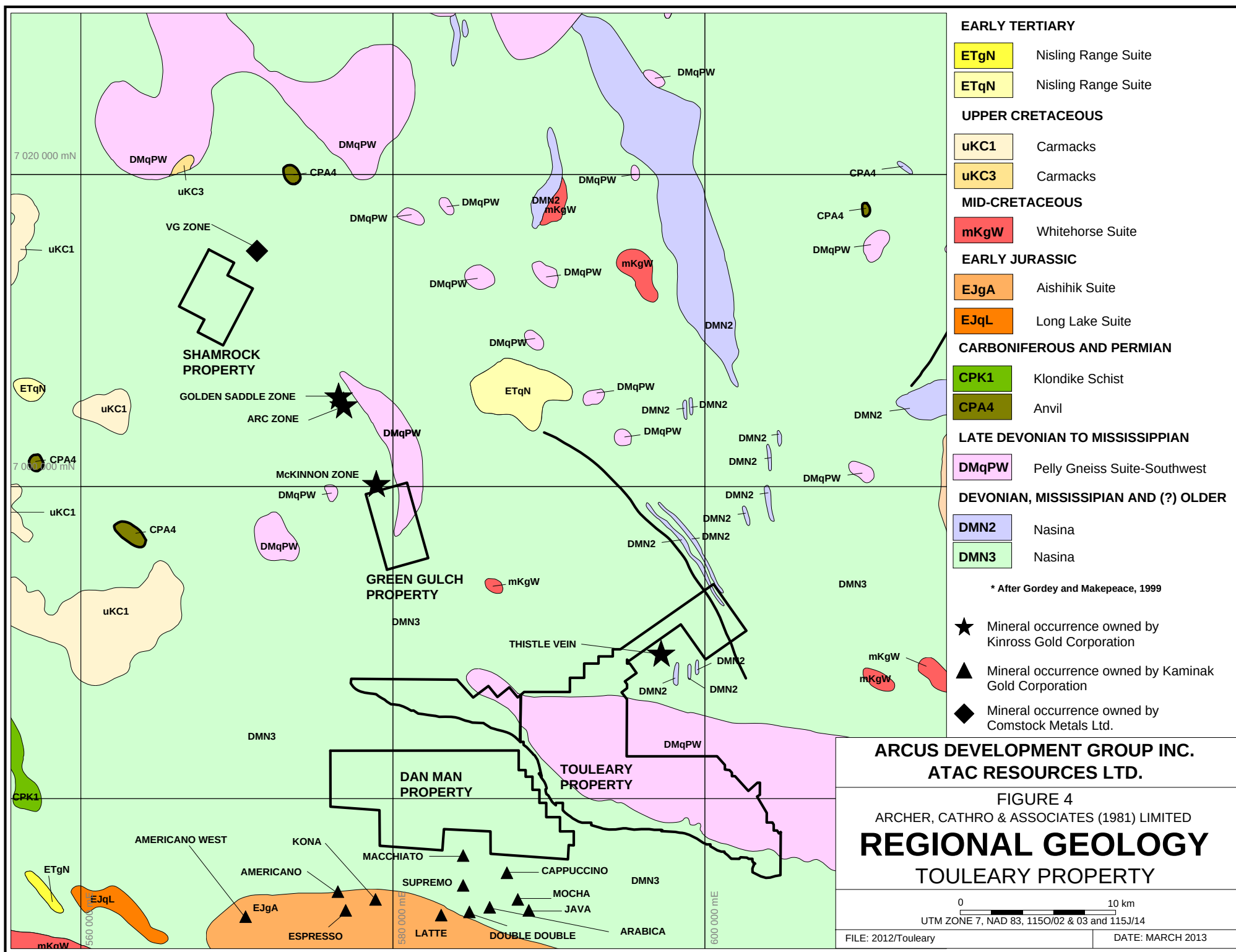
After Colpron, M. and Nelson, J.L., 2011



Southwest of Tintina Fault, the YTT assemblage comprises mostly intermediate to mafic metavolcanic and metavolcaniclastic rocks of arc affinity, and fringing metasedimentary rocks (Colpron and Nelson, 2006). Table IV below contains a brief summary of the main lithologies in the Touleary property area. Figure 4 illustrates the distribution of those lithologies.

Table IV - Regional Lithologies (After Gordey and Makepeace, 2003)

Unit	Period	Description
ETqN	Early Tertiary	Nisling Range Suite: Series of felsic intrusives ranging in composition from granodiorite to mafic-poor granite.
uKC1	Upper Cretaceous	Carmacks Group (1): Volcanic succession dominantly olivine basalt and breccia; hornblende-feldspar porphyry and andesite and dacite flows with minor sandy tuff, granite boulder conglomerate, agglomerate and associated epiclastic rocks.
uKC3	Upper Cretaceous	Carmacks Group (3): Medium bedded, poorly sorted, coarse- to fine-grained sandstone, pebble conglomerate, shale, tuff and coal; massive to thick bedded locally derived granite or quartzite pebble to boulder conglomerate.
mKgW	Mid-Cretaceous	Whitehorse Suite: Felsic intrusives ranging in composition from quartz monzonite to leucogranite.
EJgA	Early Jurassic	Aishihik Suite: Medium to coarse grained, foliated biotite-hornblende granodiorite; biotite rich gneiss; foliated hornblende diorite to monzodiorite with local potassium-feldspar megacrysts.
EJqL	Early Jurassic	Long Lake Suite: Felsic, massive to weakly foliated, fine to coarse grained biotite, biotite-muscovite and biotite-hornblende quartz monzonite to granite. Commonly hosts potassium feldspar megacrysts.
CPK1	Carboniferous to Permian	Klondike Schist (1): Tan to rusty and black weathering muscovite and/or chloritic quartzite and quartz-muscovite-chlorite schist; quartz and/or feldspar augen-bearing quartz-muscovite (+/-chlorite) schist; includes augen gneiss and amphibolite.
CPA4	Carboniferous to Permian	Anvil Range Group (4): Dunite, peridotite, gabbro, pyroxenite, harzburgite with minor diorite, hornblendite and diabase; serpentinite, orange weathering quartz-carbonate rock with minor green chromian muscovite, talc-carbonate schist and carbonatized ultramafic rocks.
DMqPW	Late Devonian to Mississippian	Pelly Gneiss Suite: Foliated equigranular, medium grained muscovite quartz monzonite, moderately to strongly foliated K-feldspar augen quartz monzonitic to granitic gneiss.



DMgPW	Late Devonian to Mississippian	Pelly Gneiss Suite: Foliated medium grained, homogenous biotite granite gneiss to biotite or hornblende granodiorite gneiss; includes interfoliated amphibolite, quartz-mica schist and phyllites.
DMN2	Devonian, Mississippian and older (?)	Nasina Assemblage (2): Marble.
DMN3	Devonian, Mississippian and older (?)	Nasina Assemblage (3): Quartzite, micaceous quartzite, quartz-muscovite schist, and minor metaconglomerate and metagrit. May locally include significant Nisling Assemblage.

PROPERTY GEOLOGY

The Touleary property is underlain by Late Devonian to Mississippian Pelly Gneiss Suite (DMqPW) and the highly strained Devonian, Mississippian and older(?) Nasina Assemblage (DMN3). Given the limited bedrock exposure, no systematic detailed geological mapping is possible at the Touleary property, but trench mapping in 2010 and diamond drilling in 2011 identified the following units:

- 1) Gneiss (DMqPW);
- 2) Schist (DMN3); and,
- 3) Mafic to Ultramafic rocks.

Five types of gneiss have been identified on the property: chlorite-amphibole-hornblende gneiss (Zebra gneiss); megacrystic garnet augen gneiss; porphyritic chlorite augen gneiss; aphanitic biotite-chlorite-garnet gneiss; and, fuschite-muscovite-chlorite gneiss.



TL-11-05 at 144.50 m

Alteration within the gneiss includes sericite, ankerite and limonite. In some areas, garnet augens have retrograded to chlorite. Quartz veins and flooding occur throughout the gneiss. The following photo shows ankerite and limonite alteration in heavily quartz flooded gneiss.



TL-11-01 at 50 m

The schists are felsic to mafic in composition. Felsic schist comprises muscovite-epidote-talc-chlorite-garnet-sphene and is variably bleached and silicified. Mafic schist is composed of biotite, chlorite and muscovite. Barite and quartz are minor components in all schists.



TL-11-02 at 99.10 m

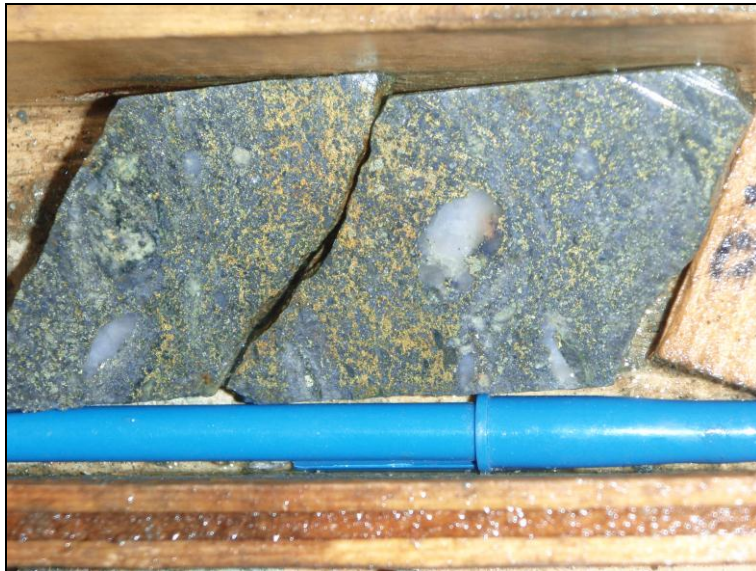
The intense deformation and metamorphism observed within wall rocks to the Touleary VMS horizon makes determination of their protolith difficult; however, based on geological observations and mineral assemblages the schist likely originated from a felsic or mafic volcanic

suite (Leitch, 2011). The schist hosts pyrite and sieve-textured porphyroblasts of garnet, amphibole, chlorite, hematite, sphene and rutile.



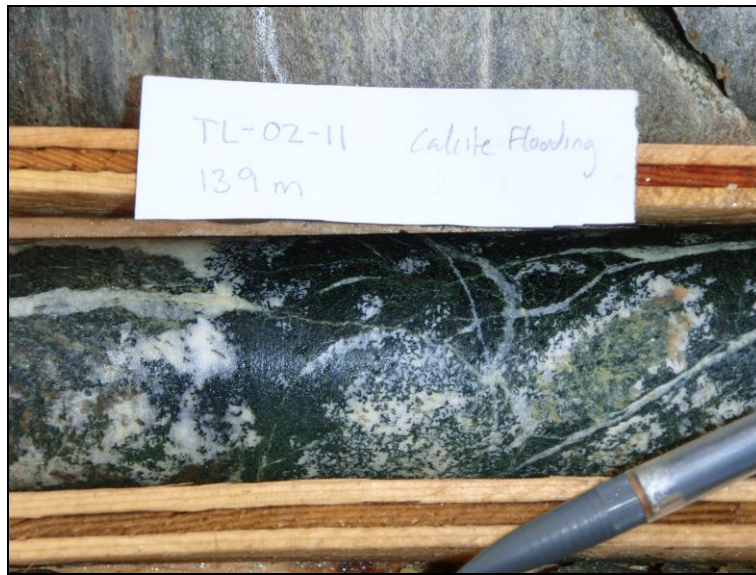
TL-11-05 at 112.17 m

Quartz-eye phenocrysts like those shown in the photo below support the volcanoclastic protolith theory.



TL-11-03 at 90.80 m

The mafic to ultramafic rocks typically occurs as thin layers within the gneiss. They are fine grained, equigranular and contain dark green chlorite, diopside and actinolite. This unit is often variably flooded by quartz, ankerite or calcite as shown in the following photo.



TL-11-02 at 139 m

MINERALIZATION

Petrographic studies on mineralized drill core have been performed by Leitch (2011) and Bennett (2012). Observations made during these studies have been incorporated below.

The Touleary property hosts VMS mineralization within a structurally deformed package of quartz-sericite-chlorite-epidote±muscovite±talc schist that has undergone multiple phases of deformation. Microstructural evidence suggests that deformation exerts an important control on modal distribution of sulphides with polymetallic ore coarsening and concentrating in early-stage tight to isoclinal fold hinges (Bennett, 2012). The deformation events include: major regional deformation, which metamorphosed the schist; followed by a pyrite alteration event, which preferentially replaced certain minerals in the schist; and a later deformation event, which folded the pyrite-rich schist.

Mineralization occurs along fold limbs and at fold hinges within the drill core. Limb-hosted mineralization comprises wispy, blebby, foliation parallel, sulphides while fold hinge-hosted mineralization comprises semi-massive to massive, net-textured, coarsely recrystallized sulphides. The primary sulphides present are chalcopyrite, pyrite, sphalerite, arsenopyrite, covellite and bornite. Where chalcopyrite is the primary sulphide, an accessory silver-bearing sulfosalt, tetrahedrite(?), occurs (Leitch, 2011). The following photo (TL-11-05 at 129.25 m) is a good representation of wispy, foliation parallel mineralization that blowouts to coarse sulphides near the fold hinge.

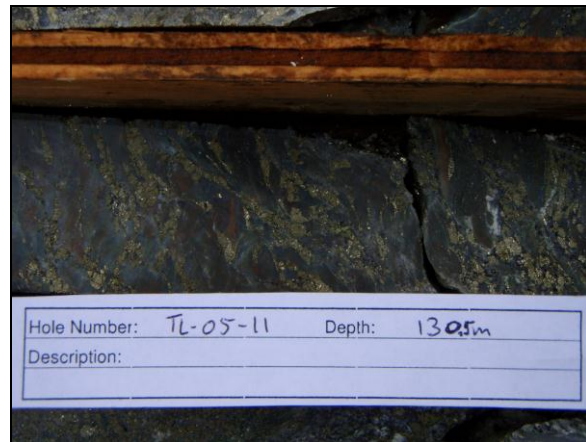


TL-11-05 at 129.25 m

The photos below show the wispy textures developed on fold limbs in the felsic and intermediate schist-volcaniclastic (?). These photos also demonstrate the direct positive correlation between mineralization and silica content in the schist.

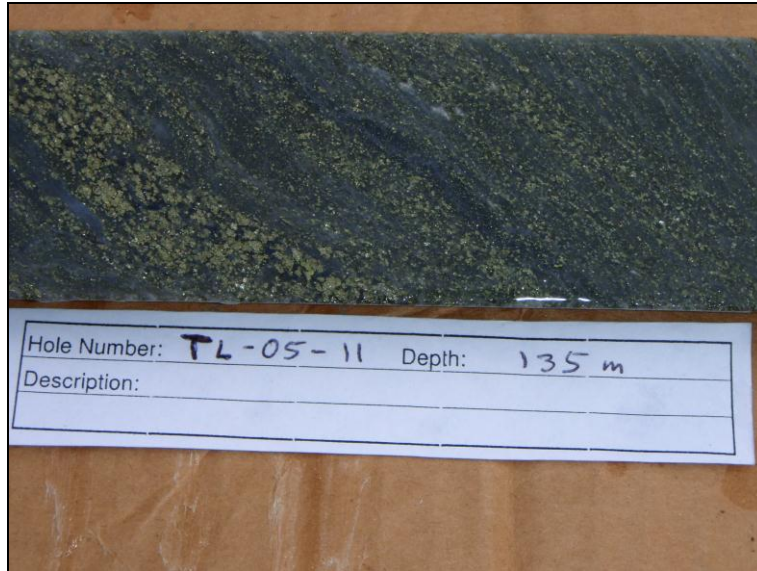


TL-11-03 at 91.52 m



TL-11-05 at 1305.5 m

The next photo is of talc-chlorite-sericite schist-volcaniclastic (?) with heavily disseminated and semi-massive, coarsely recrystallized and fine grained, wispy pyrite and chalcopyrite with relict foliation. This fabric is indicative of a fold limb domain.



TL-11-05 at 135 m

SEM analysis of fold hinge mineralization has shown that sulphide content is 48.37 wt. % chalcopyrite, 2.46 wt. % sphalerite and 4.41 wt. % pyrite, which contrasts dramatically with analysis of the fold limb mineralization where composition of sulphide was 0.89 wt. % chalcopyrite, 0.1 wt. % sphalerite and 35.43 wt. % pyrite (Bennett, 2012).

Gangue mineralogy within the semi-massive to massive samples include: quartz, sericite, muscovite and barite (Leitch, 2011).

SOIL GEOCHEMISTRY

Grid soil geochemical surveys were conducted on the Touleary property in 2009, 2011 and 2012. In total the grids cover less than 35% of the property. All 2009 samples were collected at reconnaissance (50 by 200 m) spacing. In 2011, closer spaced sampling (50 by 50 m and 50 by 100 m) was done in anomalous areas identified in 2009. Additional reconnaissance sampling (50 by 200 m) was also completed in 2011 (Figure 5). In 2012, 418 soil samples were collected from the southern part of the sampling area where significant copper-, silver-, lead- and zinc-in-soil values were previously identified.

Locations for all samples were established using hand-held GPS units. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath that were driven into the ground. Samples were dug using hand-held augers and were collected as deep in the soil profile as ground conditions allowed, which was typically between 40 and 70 cm depth. Each sample was placed into individually pre-numbered Kraft paper bags.

All soil samples were sent to ALS Minerals, where they were dried, screened to -180 microns, dissolved in aqua regia solution and then analyzed for 35 elements using the inductively coupled plasma with atomic emission spectroscopy technique (ME-ICP41). An additional 30 g charge was further analysed for gold by fire assay with inductively coupled plasma-atomic emissions spectroscopy finish (Au-ICP21). Certificates of Analysis are located in Appendix II. Soil

sample locations are shown on Figure 5, while Figures 6 to 10 illustrate gold, copper, silver, lead and zinc geochemistry. Three main anomalous areas (A, B and C) were identified by the geochemical sampling. Thresholds used for describing soil results are shown in Table V.

Table V– Soil Sample Thresholds

Element	Weak	Moderate	Strong	2010 Peak	2011 Peak	2012 Peak
Gold (ppb)	$20 \leq 50$	$50 \leq 100$	≥ 100	304	313	24
Silver (ppm)	$0.2 \leq 0.5$	$0.5 \leq 1.0$	≥ 1.0	1.3	3.6	0.9
Copper (ppm)	$20 \leq 50$	$50 \leq 100$	≥ 100	258	218	186
Lead (ppm)	$20 \leq 50$	$50 \leq 100$	≥ 100	521	381	337
Zinc (ppm)	$50 \leq 100$	$100 \leq 200$	≥ 200	377	1190	969

Area A is a 1250 by 350 m northeasterly elongated cluster that encompasses the 2010 and 2011 work areas. Area A straddles linear VTEM and magnetic anomalies. It contains nearly all of the moderately to strongly anomalous gold values on the property. It also hosts coincident silver, copper and zinc values. Antimony and molybdenum response within this area is moderate, while lead and arsenic values are low.

Area B is approximately circular and has a 1000 m diameter. It lies about four kilometres south-southwest of Area A. Area B comprises coincident silver-copper-lead-zinc soil anomalies that overlie a circular magnetic low that is discussed in more detail in the Geophysics section below. A few samples in this area returned moderately anomalous arsenic and molybdenum values.

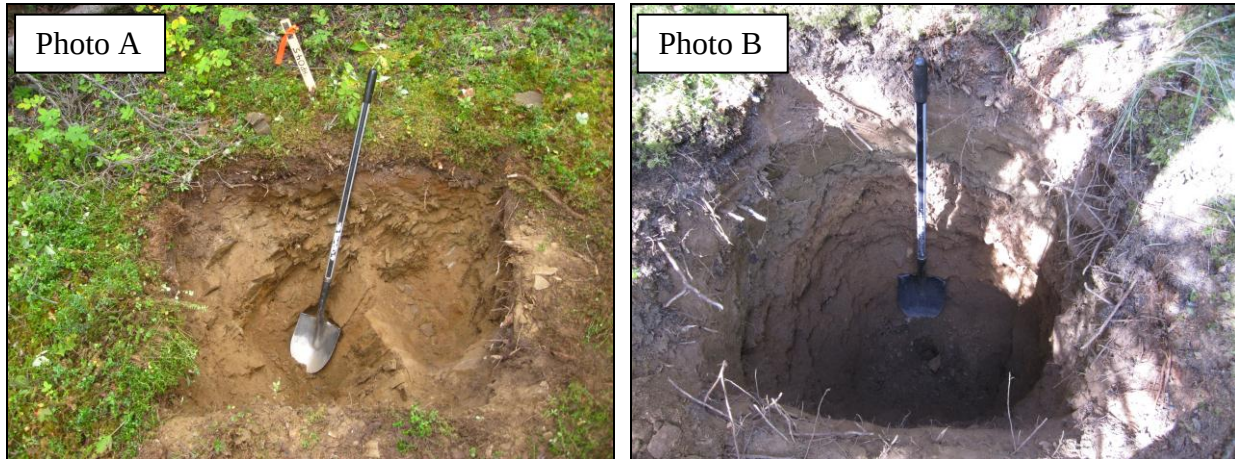
Area C is a sinusoidal band of elevated values, which is 2150 m long and up to 950 m wide. It is located approximately three kilometres southeast of Area B. The bounds of Area C are defined by moderately to strongly anomalous zinc values. Smaller clusters of silver, lead and copper values lie within Area C. A number of elevated arsenic and molybdenum enriched samples fringe the southern edge of this area.

Clusters of anomalous copper values without strong gold, silver, lead or zinc support are scattered across the sampled area. The most interesting of these copper-rich clusters is a linear, but discontinuous, band of strongly anomalous values located about 1500 m south of Area A. This cluster is about 1700 m long.

High values for pathfinder elements, including arsenic, antimony and molybdenum, usually occur within the main anomalous areas; however, there are a few noteworthy exceptions. The strongest and most continuous arsenic anomaly lies 1000 m north of Area A and covers a 500 by 1000 m area. A secondary (1200 by 1100 m) arsenic anomaly lies 400 m south of Area A. The sample that yielded the highest antimony value lies 800 m west of Area C in an area with low response for other elements.

HAND PITTING

In 2012, 48 hand pits were dug within Area C in the vicinity of coincidently anomalous silver, copper, lead and zinc soil geochemical values (Figure 11). Hand pits were dug to bedrock (Photo A) or up to two metres depth (Photo B) depending on ground conditions.



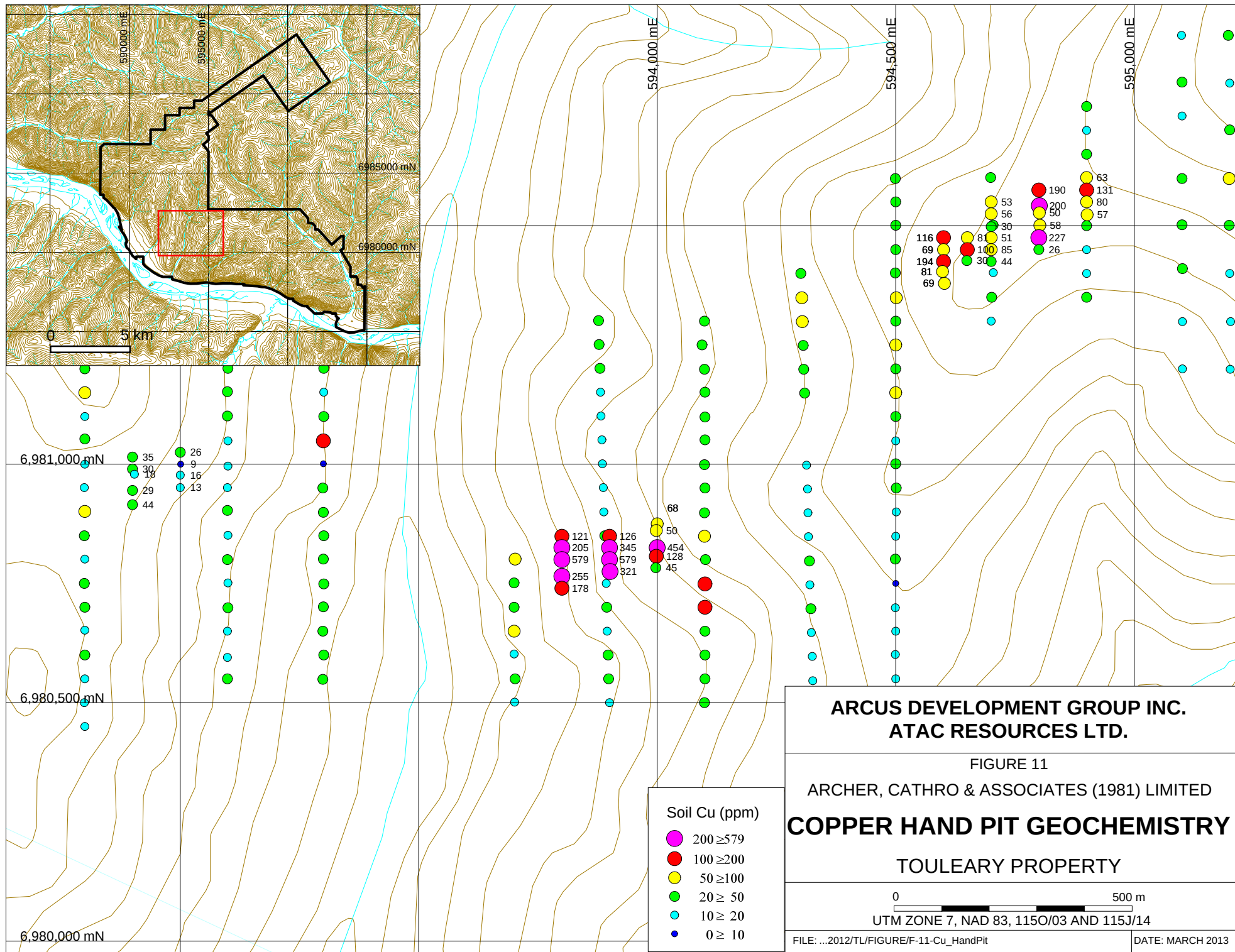
Where bedrock was encountered, a representative rock sample was collected and a soil sample was taken at the bedrock-soil interface. In pits where bedrock was not encountered, two pieces of rock were collected from soil and a hand-held auger soil sample was taken from as deep as possible below the bottom of the pit. The hand pit soil samples were typically collected between 1.5 and 2.5 m below the surface. Following the field season all rock specimens were shipped to Vancouver where they will be sawn in half with a rock saw and used to create a geology map. This work had not been started at the time of this report.

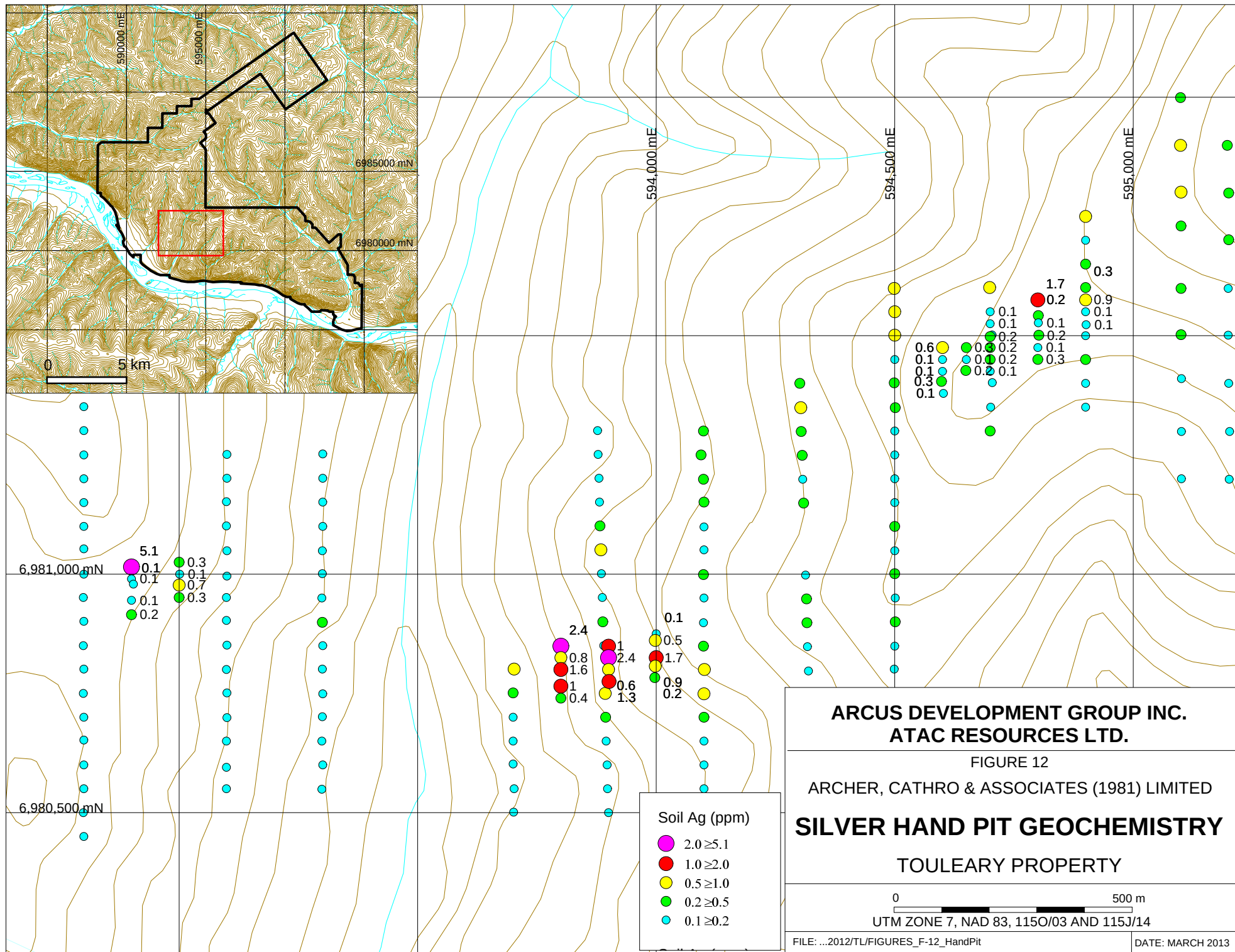
Figure 5 shows the hand pit locations while Figures 11 to 14 illustrate thematic results for silver, copper, lead and zinc. Table VI compares conventional and hand pit deep auger soil sample results within Area C.

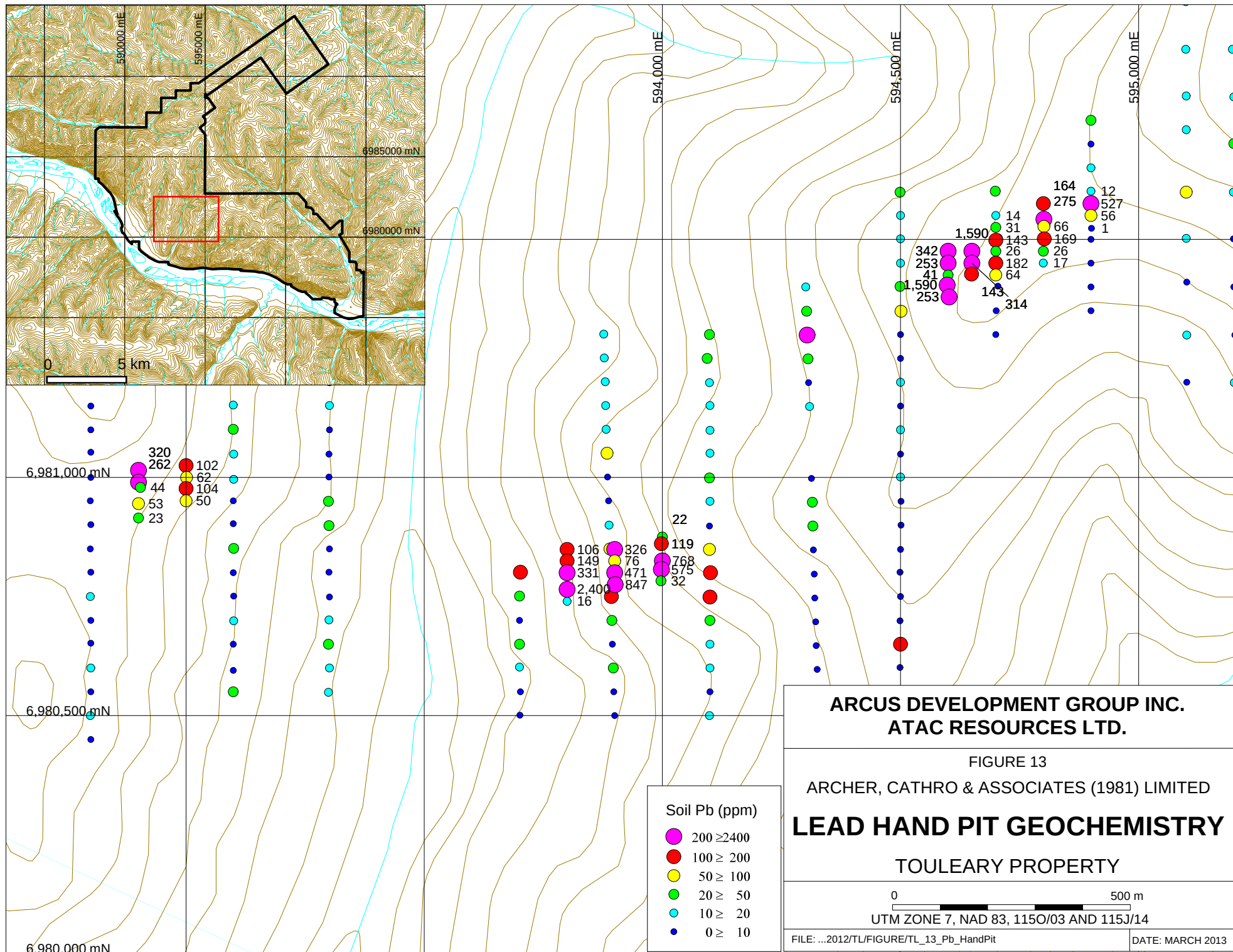
Table VI– Soil Sample Comparison

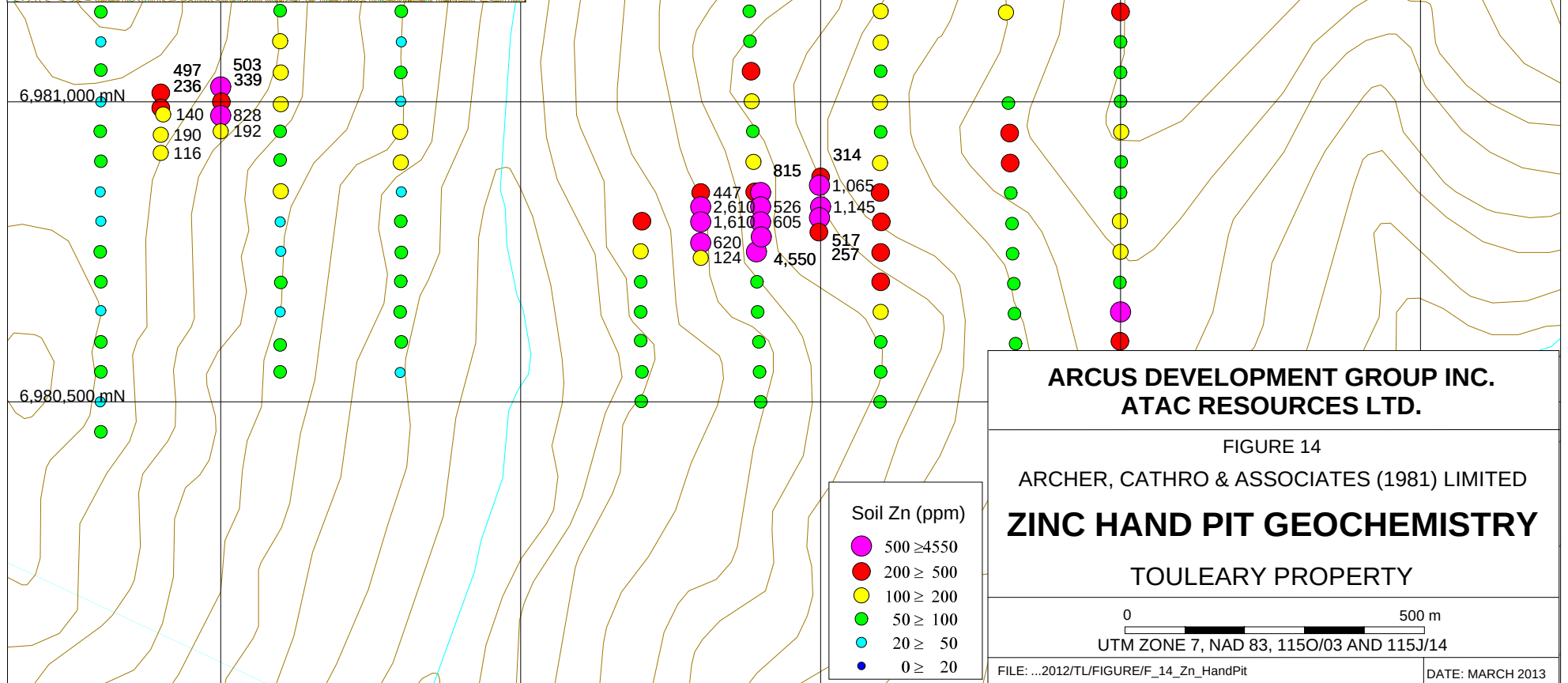
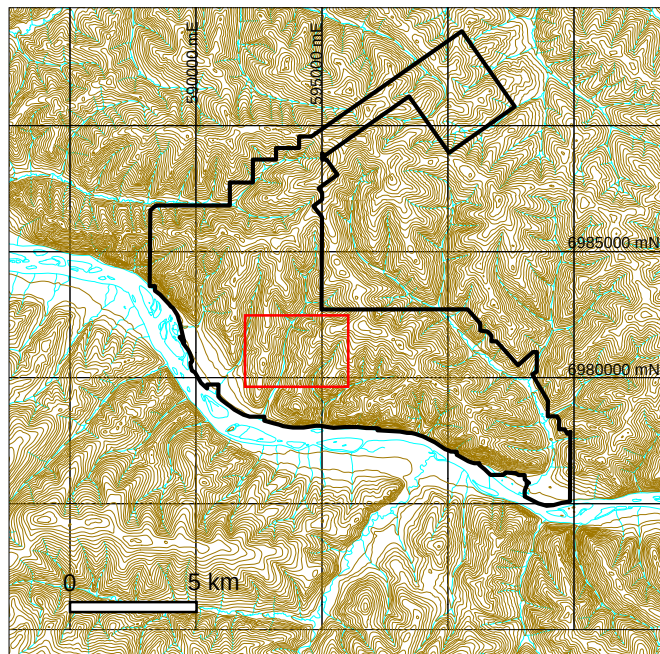
Element	2011 Peak Conventional Soil Sample	2012 Peak Conventional Soil Sample	2012 Peak Hand Pit Soil Sample
Gold (ppb)	25	24	28
Silver (ppm)	2.5	0.9	5.1
Copper (ppm)	218	186	579
Lead (ppm)	381	337	2400
Zinc (ppm)	1185	969	4550

Based on the data tabulated above, a number of observations can be made: 1) Area C is silver-, copper-, lead- and zinc-rich, but depleted in gold; 2) soil samples collected from the bottom of hand pits yielded significantly higher values (up to six times greater) than those collected by









conventional soil sampling techniques, from closer to surface; and, 3) Area C likely hosts a second VMS horizon.

GEOPHYSICS

The magnetic and VTEM helicopter-borne geophysical surveys flown over the Touleary property in 2011 identified a number of magnetic domains with different textures (Witherly, 2011). The VTEM survey data was refined using a first vertical derivative (dB/dt) calculated time constant, which identified five conductive zones – one of which coincides with Area A. Area B is not conductive while the southwest limb of Area C shows moderate VTEM response.

Figure 15 shows the first vertical derivative magnetic signatures with diamond drill hole and hand pit locations. Area A is underlain by a linear magnetic low that is bound by two strong magnetic highs. Area B coincides with a circular magnetic low, which may mark a small intrusive plug. Area C was only partially covered by the geophysical survey and therefore its geophysical signature cannot be determined. The copper anomaly located 1500 m south of Area A is underlain by magnetic anomalies with similar geometry, but weaker intensity, than those at Area A.

DEPOSIT MODEL

On-going studies are beginning to examine the spatial relationship between orogenic gold deposits and VMS deposits. No direct association has been established as yet (i.e. one deposit type can form without the other); however, it has been observed that orogenic gold deposits commonly occur within VMS districts (Goldfarb pers. comm, 2011) or vice versa. The VMS discovery at the Touleary property within an established orogenic gold camp (evident by placer mines and nearby White Gold and Coffee Creek occurrences) supports Goldfarb's theory for a spatial relationship between the two deposit types.

At the present time it is difficult to classify the Touleary VMS discoveries into a specific deposit type. The high copper content and mafic schist-volcaniclastic (?) host suggests a Besshi-style target, but the elevated zinc and silver values and felsic schist-volcaniclastic (?) host suggests a Kuroko-style target.

Zircon dating currently being done by the YGS will determine if the host rocks on the Touleary property are Devonian to Mississippian or Permian in age. If a Devonian to Mississippian age is determined, mineralization is likely associated with similar aged VMS deposits (Wolverine, Kudzu, Kayah and GP4F) within the Finlayson Lake VMS District; however, if a Permian age is determined, the mineralization may be related to the event that created the Fyre Lake Deposit.

DISCUSSION AND CONCLUSIONS

The Touleary property covers a package of schists and gneisses belonging to the Yukon-Tanana Terrane. Reconnaissance- and detailed-scale exploration on the property has identified VMS style mineralization in an area renowned for placer gold. Drilling in 2011 identified gold-, silver-, copper- and zinc-rich VMS horizons in the vicinity of soil geochemical anomalies at

Area A. Two additional soil geochemical anomalies have been identified – areas B and C. Area B appears to be related to an intrusive plug, based on geophysical data, while Area C may represent the surface expression of another VMS horizon. The lead-, zinc-, silver- and copper-rich and gold-poor geochemical signature of Area C suggest a more distal to vent setting than is indicated at Area A. Small clusters of less mobile elements (silver and lead) within Area C may represent areas where there is less soil dispersion (i.e. nearer to in-situ mineralization) or, if the stratigraphic package is folded – a concentration of mineralization near fold hinges.

Future work on the property is warranted and should include: additional reconnaissance-scale soil sampling; more follow-up hand pitting; expanded geophysical coverage; and, diamond drilling. Based on the positive results from the 2012 hand pitting program, any closely-spaced soil samples collected on the Touleary property in the future should be taken from the bottom of hand pits. If these pits do not expose bedrock, they should be dug to a depth of at least one metre before a sample is taken from a hole augered as deep as possible beneath the pit floor. Reconnaissance-scale sampling should be done in the conventional manner, because it is more cost effective for evaluation of large areas and has proven to be effective for targeting general areas of interest.

Additional diamond drilling should be conducted in Area A to further delineate the discovery VMS horizons and within the central part of Area C to identify mineralisation and determine host lithologies. Prior to drilling ground-based electromagnetic surveys should be conducted at areas A and C so that response over known mineralization can be documented and compared to data collected along strike at Area A and from Area C. If budgets permit, additional helicopter-borne magnetic surveys should be performed to extend coverage across the entire property.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



H. Burrell, B.Sc., P.Geo.

REFERENCES

- Andersen, F.J.
 1991 Geochemical Report on the Far 1-22 and Near 1-40 Claims; report prepared for Sparkling Minerals Incorporated; Assessment Report Number 092982.
- 1999 Geochemical Report on the Kit 3-14 Claims; report prepared for Prospecx Geological Enterprises; Assessment Report Number 093999.
- Archer, A. R. and Onasick, E.P.
 1980 NAT Joint Venture Final Report. Internal report prepared by Archer, Cathro & Associates Ltd. for Chevron Canada Limited and Armco Mineral Exploration Ltd.
- Bennett, V.
 2012 Touleary Project, Dawson Range Mineral Belt, Yukon, Canada – SEM Study. Report prepared for Arcus Development Group Inc.
- Bond, J.D.
 2007 A guide to soil sampling in Yukon. YGS Brochure 2007-2.
www.geology.gob.yk.ca
- Colpron, M. and Nelson, J. L.
 2011 A Digital atlas of terranes for the Northern Cordillera; Yukon Geological Survey and BC Geology Survey, BCGS GeoFile 2011-11
http://www.geology.gov.yk.ca/pdf/CanCord_terranes_2011.pdf
- 2006 Paleozoic evolution and metallogeny of pericratonic terranes at the ancient Pacific margin of North America, Canadian and Alaskan Cordillera. Special Paper: Geological Association of Canada, 45, page 523.
- Goldfarb, R.J.
 2011 Gold Deposit Models; Gold Geology and Deposit Types SEG Course; PDAC International Convention; March 4 and 5, 2011; US Geological Survey.
- Gordey, S.P. and Makepeace, A.J. (comp.).
 2003 Yukon digital geology, Geological Survey of Canada Open File D3826 and Exploration and Geological Services Division, Yukon Region, Indian and Northern Affairs Canada.
- LeBarge, W.P.
 2007 Yukon Placer Data 2007-Geology and mining activity of placer occurrences; Yukon Geological Survey; [http://ygsftp.gov.yk.ca/publications/placer_atlas/\(fell_hawk_placers_kirkman\)](http://ygsftp.gov.yk.ca/publications/placer_atlas/(fell_hawk_placers_kirkman)).
- Leitch, C.,
 2011 Petrographic report on ten samples from the Touleary project, Yukon. Report prepared for Arcus Development Group Inc. by Vancouver Petrographics Ltd.

- Piercey, S.J., Nelson, J.L., Colpron, M., Dusel-Bacon, C., Simard, R.-L., and Roots, C.F.
 2006 Paleozoic magmatism and crustal recycling along the ancient Pacific margin of North America, northern Cordillera; *in* Colpron, M. and Nelson, J.L. Eds., Paleozoic Evolution and Metallongenesis of Pericratonic Terranes at the Ancient Pacific Margin of North America, Canadian and Alaskan Cordillera: Geological Association of Canada Special Paper 45, p. 281-322.
- Smith, H.
 2009 Assessment Report describing geochemical sampling and prospecting at the Touleary Property, western Yukon. Report prepared by Archer, Cathro & Associates (1981) Limited.
- 2011 Assessment Report describing geochemical sampling and excavator trenching at the Touleary Property, western Yukon. Report prepared by Archer, Cathro & Associates (1981) Limited.
- 2012 Assessment Report describing geochemical sampling, geophysical surveys, petrographic studies and diamond drilling at the Touleary Property, western Yukon. Report prepared by Archer, Cathro & Associates (1981) Limited.
- Southam, P.
 1995a Geophysical Report on the Lulu Claims; report prepared for Faith Mines Ltd.; Assessment Report Number 093306.
- 1995b Geochemical Report on the Lulu Claims; report prepared for Faith Mines Ltd.; Assessment Report Number 093349.
- Stephen, J.
 2010 Personal communication regarding gold panning on Touleary Creek.
- Witherly, K.
 2011 Report on Interpretation of Helicopter-borne Magnetic Data on the Touleary Property, Yukon. Report prepared for Arcus Development Group.
- Yukon Zinc Corp.
 2013 www.yukonzinc.com

APPENDIX I
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

I, Heather Burrell, geologist, with business addresses in Vancouver, British Columbia and Whitehorse, Yukon Territory and residential address in Squamish, British Columbia do hereby certify that:

1. I graduated from the University of British Columbia in 2006 with a B.Sc in Earth and Ocean Sciences.
2. From 2004 to present, I have been actively engaged in mineral exploration in the Yukon Territory, British Columbia and Northwest Territories.
3. I am a Professional Geoscientist (P.Geo.) with the Association of Professional Engineers and Geoscientists of British Columbia (Member Number 34689).
4. I have personally directed the fieldwork reported herein and have interpreted all data resulting from this work.



H. Burrell, B.Sc., P.Geo.

APPENDIX II
CERTIFICATES OF ANALYSIS



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Page: 1
Finalized Date: 22- SEP- 2012
Account: F

CERTIFICATE WH12209423

Project: Touleary

P.O. No.:

This report is for 229 Soil samples submitted to our lab in Whitehorse, YT, Canada on 4- SEP- 2012.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

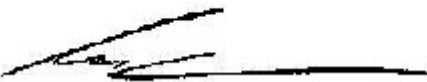
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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Finalized Date: 22- SEP- 2012
Account: F

Project: Touleary

CERTIFICATE OF ANALYSIS WH12209423

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
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 Total # Pages: 7 (A - C)
 Plus Appendix Pages
 Finalized Date: 22- SEP- 2012
 Account: F

Project: Touleary

CERTIFICATE OF ANALYSIS WH12209423

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
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ZZ60583		10	<1	0.07	10	0.59	291	<1	0.01	45	260	9	0.01	<2	5	27
ZZ60584		10	<1	0.10	10	0.48	399	1	0.02	20	280	25	0.01	<2	6	28
ZZ60585		10	<1	0.22	10	0.79	692	3	0.02	12	470	134	0.03	<2	3	34
ZZ60586		10	<1	0.06	80	1.04	2720	15	0.01	9	880	2400	0.02	<2	9	49
ZZ60587		<10	<1	0.56	40	1.09	567	15	0.01	1	810	847	0.02	<2	2	12
ZZ60601		10	1	0.25	60	0.61	1460	<1	0.01	7	1050	262	0.01	2	12	23
ZZ60602		10	1	0.77	50	1.16	2470	<1	0.01	7	1150	102	0.02	3	10	20
ZZ60603		10	<1	0.36	10	1.22	549	<1	0.02	39	730	5	0.02	<2	8	28
ZZ60604		10	<1	0.22	10	0.69	439	1	0.03	18	550	5	0.03	<2	6	40
ZZ60605		10	<1	0.16	10	0.64	321	1	0.03	19	280	18	<0.01	2	5	26
ZZ60606		10	<1	0.34	10	0.77	642	1	0.02	16	300	32	<0.01	<2	5	22
ZZ60607		<10	<1	0.10	10	0.44	502	1	0.02	15	180	11	<0.01	2	4	19
ZZ60608		<10	<1	0.18	10	0.45	587	1	0.02	17	180	13	<0.01	2	5	19
ZZ60609		10	<1	0.18	10	0.59	515	1	0.03	24	250	8	<0.01	<2	5	23
ZZ60610		10	<1	0.29	10	1.55	316	1	0.03	90	460	7	<0.01	2	4	26
ZZ60611		10	<1	0.12	10	0.70	387	1	0.03	24	280	40	<0.01	<2	4	23
ZZ60612		10	<1	0.04	20	0.47	310	1	0.03	29	440	5	0.03	<2	4	49
ZZ60613		10	<1	0.09	10	0.43	273	2	0.02	24	380	8	<0.01	<2	3	22
ZZ60614		10	<1	0.05	30	0.45	237	2	0.02	32	430	10	<0.01	2	5	24



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ60562		<20	0.02	<10	<10	87	<10	116
ZZ60563		30	0.01	<10	<10	38	<10	497
ZZ60564		<20	0.09	<10	<10	61	<10	55
ZZ60565		<20	0.09	<10	<10	61	<10	70
ZZ60566		<20	0.09	<10	<10	67	<10	78
ZZ60567		<20	0.17	<10	<10	140	<10	49
ZZ60568		<20	0.25	<10	<10	196	<10	82
ZZ60569		<20	0.13	<10	<10	191	<10	36
ZZ60570		<20	0.09	<10	<10	64	<10	118
ZZ60571		<20	0.08	<10	<10	55	<10	155
ZZ60572		<20	0.06	<10	<10	50	<10	49
ZZ60573		<20	0.05	<10	<10	63	<10	53
ZZ60574		<20	0.07	<10	<10	56	<10	51
ZZ60575		<20	0.06	<10	<10	58	<10	54
ZZ60576		<20	0.09	<10	<10	68	<10	84
ZZ60577		20	0.05	<10	<10	52	<10	66
ZZ60578		<20	0.07	<10	<10	56	<10	46
ZZ60579		<20	0.09	<10	<10	55	<10	55
ZZ60580		<20	0.06	<10	<10	47	<10	60
ZZ60581		<20	0.07	<10	<10	56	<10	54
ZZ60582		<20	0.07	<10	<10	55	<10	72
ZZ60583		<20	0.09	<10	<10	67	<10	52
ZZ60584		<20	0.09	<10	<10	63	<10	133
ZZ60585		<20	0.10	<10	<10	48	<10	406
ZZ60586		30	0.02	<10	<10	82	<10	620
ZZ60587		40	0.03	<10	<10	7	<10	4550
ZZ60601		30	0.02	<10	<10	50	<10	236
ZZ60602		30	0.13	<10	<10	62	<10	503
ZZ60603		<20	0.15	<10	<10	81	<10	59
ZZ60604		<20	0.10	<10	<10	63	<10	53
ZZ60605		<20	0.10	<10	<10	65	<10	70
ZZ60606		<20	0.13	<10	<10	68	<10	183
ZZ60607		<20	0.08	<10	<10	58	<10	128
ZZ60608		<20	0.09	<10	<10	58	<10	120
ZZ60609		<20	0.11	<10	<10	65	<10	69
ZZ60610		<20	0.19	<10	<10	90	<10	93
ZZ60611		<20	0.06	<10	<10	54	<10	191
ZZ60612		<20	0.05	<10	<10	47	<10	43
ZZ60613		<20	0.07	<10	<10	58	<10	46
ZZ60614		<20	0.06	<10	<10	64	<10	68



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ60615		0.25	0.004	<0.2	1.95	7	<10	190	0.6	<2	0.38	<0.5	10	35	17	3.11
ZZ60616		0.29	0.001	<0.2	1.80	7	<10	210	0.7	<2	0.41	<0.5	8	38	12	2.80
ZZ60617		0.22	0.002	<0.2	1.58	11	<10	310	1.1	<2	0.83	<0.5	9	33	30	2.72
ZZ60618		0.45	0.005	0.8	3.29	<2	<10	960	0.7	2	0.95	4.0	25	41	205	6.13
ZZ60619		0.40	0.028	2.4	2.07	<2	<10	240	0.5	<2	0.47	1.5	3	3	345	5.41
ZZ60620		0.63	0.009	0.4	2.45	73	<10	220	1.1	2	0.91	<0.5	63	89	178	5.44
ZZ60651		0.39	0.003	<0.2	0.82	6	<10	210	0.8	<2	1.20	<0.5	12	9	18	3.70
ZZ60652		0.48	0.001	<0.2	1.21	4	<10	390	2.1	<2	1.81	1.3	7	4	9	4.54
ZZ60653		0.44	0.001	0.3	0.76	<2	<10	940	1.1	2	2.05	<0.5	10	21	13	2.94
ZZ60654		0.46	0.003	2.4	2.43	3	<10	460	<0.5	<2	0.74	2.7	11	6	121	5.47
ZZ60655		0.44	0.006	1.0	2.75	<2	<10	520	0.8	3	0.79	1.1	16	37	126	5.13
ZZ60656		0.35	0.014	0.2	1.78	8	<10	400	0.5	<2	0.90	0.5	11	23	46	3.35
ZZ60657		0.42	0.003	0.2	1.65	7	<10	330	1.6	<2	0.92	0.8	9	24	45	3.07
ZZ60658		0.45	0.003	0.2	2.00	5	<10	390	0.5	<2	0.71	<0.5	12	24	33	3.70
ZZ60659		0.35	0.001	0.2	1.85	4	<10	270	<0.5	<2	0.40	<0.5	8	25	24	3.08
ZZ60660		0.35	0.002	<0.2	2.03	5	<10	290	<0.5	<2	0.42	<0.5	10	38	28	3.58
ZZ60661		0.28	0.004	<0.2	1.59	8	<10	240	<0.5	<2	0.34	<0.5	9	33	23	2.73
ZZ60662		0.36	0.001	0.3	1.70	8	<10	250	<0.5	<2	0.29	0.6	9	30	23	3.00
ZZ60663		0.33	0.005	<0.2	1.84	8	<10	240	0.5	<2	0.33	<0.5	9	37	32	3.02
ZZ60664		0.34	0.004	<0.2	2.77	4	<10	420	0.6	<2	0.59	<0.5	13	22	27	4.76
ZZ60665		0.37	0.001	0.2	2.70	5	<10	360	0.7	<2	0.71	<0.5	16	23	63	5.59
ZZ60666		0.35	0.002	0.9	2.12	9	<10	430	0.5	<2	0.30	0.7	12	35	34	3.07
ZZ60667		0.36	0.010	0.6	2.28	6	<10	340	0.6	<2	0.47	<0.5	10	48	152	3.11
ZZ60668		0.29	0.010	0.4	1.87	5	<10	290	0.5	<2	1.69	5.6	8	23	131	2.88
ZZ60669		0.40	0.009	<0.2	1.65	7	<10	280	0.6	<2	0.92	<0.5	8	21	37	3.11
ZZ60670		0.30	0.002	<0.2	1.45	5	<10	220	<0.5	<2	0.49	<0.5	8	26	27	2.46
ZZ60671		0.44	0.005	<0.2	1.40	9	<10	230	0.5	2	0.66	<0.5	12	33	33	2.80
ZZ60672		0.55	0.003	<0.2	1.57	10	<10	220	0.7	<2	0.68	<0.5	11	34	33	2.80
ZZ60729		0.47	0.011	0.9	1.46	<2	<10	320	0.5	6	0.15	1.1	4	8	128	2.65
ZZ60730		0.41	0.001	0.2	1.27	4	<10	110	0.9	<2	0.22	<0.5	7	10	45	4.11
ZZ60731		0.36	0.003	0.6	1.69	4	<10	1310	0.9	4	0.37	1.7	13	17	160	2.93
ZZ60732		0.42	0.001	0.2	2.28	3	<10	340	0.6	<2	0.42	1.1	14	24	56	3.64
ZZ60733		0.42	0.002	0.2	1.57	4	<10	200	<0.5	2	0.32	1.6	11	18	30	2.37
ZZ60734		0.48	0.001	0.2	3.20	3	<10	560	0.9	3	1.07	2.3	18	9	83	5.82
ZZ60735		0.49	0.001	<0.2	2.47	<2	<10	410	0.9	<2	0.63	1.8	12	7	50	4.01
ZZ60736		0.45	0.002	0.3	1.82	2	<10	240	<0.5	<2	0.17	<0.5	9	10	63	3.18
ZZ60737		0.44	0.007	<0.2	2.32	9	<10	250	0.5	<2	0.22	<0.5	10	52	31	3.09
ZZ60738		0.38	0.004	<0.2	1.97	7	<10	180	<0.5	<2	0.20	<0.5	10	35	25	3.17
ZZ60739		0.44	0.001	<0.2	1.87	4	<10	250	<0.5	2	0.36	<0.5	9	27	30	3.08
ZZ60740		0.43	0.002	<0.2	2.67	3	<10	210	0.5	3	0.48	<0.5	15	54	27	4.26



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Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
ZZ60615		10	<1	0.07	10	0.60	257	1	0.02	20	240	8	0.01	2	4	25
ZZ60616		10	<1	0.05	10	0.46	246	1	0.02	19	160	9	0.01	<2	4	27
ZZ60617		10	<1	0.05	40	0.46	325	1	0.03	29	550	29	0.02	<2	5	39
ZZ60618		10	<1	1.60	10	1.88	1660	4	0.03	23	2770	149	0.01	<2	5	38
ZZ60619		<10	<1	1.34	30	1.31	583	2	0.15	1	2120	76	0.86	<2	3	106
ZZ60620		10	<1	0.08	70	1.02	1220	12	0.02	191	1000	16	<0.01	2	7	51
ZZ60651		<10	<1	0.24	50	0.30	1270	1	0.01	8	740	44	<0.01	2	9	14
ZZ60652		10	<1	0.08	60	0.45	2280	1	0.02	1	770	62	<0.01	3	7	16
ZZ60653		<10	<1	0.23	60	0.18	2670	1	0.02	7	860	50	0.01	3	6	17
ZZ60654		10	<1	1.01	10	1.06	688	4	0.02	3	2520	106	0.05	<2	4	77
ZZ60655		10	1	0.99	10	1.63	1220	1	0.02	13	1580	326	0.01	2	5	37
ZZ60656		10	1	0.39	20	0.73	436	1	0.03	15	710	24	0.03	<2	5	42
ZZ60657		10	<1	0.22	20	0.61	492	1	0.03	15	700	44	0.02	<2	6	49
ZZ60658		10	<1	0.49	20	0.91	478	2	0.03	11	1240	18	0.02	2	5	47
ZZ60659		10	<1	0.21	10	0.63	348	1	0.03	11	550	15	0.01	<2	4	26
ZZ60660		10	<1	0.35	20	0.82	409	1	0.03	14	700	19	0.03	<2	5	30
ZZ60661		<10	<1	0.07	20	0.53	340	1	0.03	18	380	11	<0.01	<2	5	28
ZZ60662		10	1	0.12	10	0.48	595	1	0.02	15	350	37	<0.01	<2	5	22
ZZ60663		10	<1	0.18	10	0.64	302	1	0.03	22	270	17	0.01	<2	5	27
ZZ60664		10	1	0.97	<10	1.25	474	1	0.03	11	1330	9	<0.01	3	3	37
ZZ60665		10	1	0.96	10	1.12	1010	2	0.03	10	1420	52	<0.01	2	5	36
ZZ60666		10	<1	0.20	10	0.80	602	2	0.03	18	220	114	0.01	2	5	27
ZZ60667		10	<1	0.55	20	1.45	750	3	0.03	20	570	124	0.01	2	5	32
ZZ60668		10	<1	0.27	20	0.87	798	3	0.03	11	630	37	0.09	<2	4	145
ZZ60669		10	<1	0.17	70	0.59	491	1	0.03	14	600	16	0.02	<2	6	50
ZZ60670		10	<1	0.08	10	0.57	315	1	0.02	21	470	14	<0.01	<2	4	30
ZZ60671		10	<1	0.05	10	0.56	316	1	0.02	32	740	9	<0.01	<2	4	33
ZZ60672		10	<1	0.06	20	0.50	283	1	0.02	33	600	10	<0.01	<2	4	32
ZZ60729		<10	<1	0.19	40	1.09	1315	9	0.01	4	350	575	<0.01	<2	4	12
ZZ60730		10	<1	0.21	80	0.42	734	2	0.01	5	480	32	<0.01	<2	7	16
ZZ60731		10	<1	0.56	40	0.99	1720	4	0.01	10	1020	3120	<0.01	<2	5	29
ZZ60732		10	<1	1.16	30	1.48	1340	<1	0.01	9	900	362	<0.01	<2	4	20
ZZ60733		<10	<1	0.57	20	0.94	934	<1	0.01	11	470	143	<0.01	<2	3	18
ZZ60734		10	<1	1.77	70	2.01	1360	1	0.01	3	3620	628	<0.01	<2	7	37
ZZ60735		10	<1	0.88	20	1.77	942	<1	0.01	5	1430	66	<0.01	<2	3	34
ZZ60736		10	<1	0.90	<10	0.91	662	<1	0.01	4	450	12	<0.01	<2	2	9
ZZ60737		10	<1	0.07	20	0.72	319	<1	0.02	25	190	7	<0.01	<2	6	23
ZZ60738		10	<1	0.09	10	0.65	271	<1	0.02	17	360	8	<0.01	<2	4	19
ZZ60739		10	<1	0.40	10	0.91	593	<1	0.02	12	580	17	<0.01	<2	3	28
ZZ60740		10	1	0.45	10	1.53	492	<1	0.02	36	780	8	<0.01	<2	5	31



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ60615		<20	0.06	<10	<10	65	<10	49
ZZ60616		<20	0.07	<10	<10	66	<10	50
ZZ60617		<20	0.05	<10	<10	50	<10	57
ZZ60618		<20	0.31	<10	<10	109	<10	2610
ZZ60619		<20	0.19	<10	<10	52	<10	526
ZZ60620		20	0.01	<10	<10	81	<10	124
ZZ60651		30	0.01	<10	<10	33	<10	140
ZZ60652		30	<0.01	<10	<10	23	<10	339
ZZ60653		30	0.01	<10	<10	25	<10	192
ZZ60654		<20	0.28	<10	<10	57	<10	447
ZZ60655		<20	0.26	<10	<10	75	<10	815
ZZ60656		<20	0.13	<10	<10	58	<10	134
ZZ60657		<20	0.10	<10	<10	52	<10	204
ZZ60658		<20	0.16	<10	<10	66	<10	186
ZZ60659		<20	0.15	<10	<10	65	<10	102
ZZ60660		<20	0.16	<10	<10	67	<10	126
ZZ60661		<20	0.10	<10	<10	59	<10	64
ZZ60662		<20	0.08	<10	<10	59	<10	167
ZZ60663		<20	0.13	<10	<10	67	<10	80
ZZ60664		<20	0.30	<10	<10	81	<10	149
ZZ60665		<20	0.33	<10	<10	67	<10	367
ZZ60666		<20	0.11	<10	<10	67	<10	352
ZZ60667		<20	0.10	<10	<10	48	<10	440
ZZ60668		<20	0.07	<10	20	41	<10	440
ZZ60669		<20	0.08	<10	<10	50	<10	115
ZZ60670		<20	0.08	<10	<10	48	<10	85
ZZ60671		<20	0.08	<10	<10	55	<10	68
ZZ60672		<20	0.07	<10	<10	54	<10	74
ZZ60729		20	0.02	<10	<10	15	<10	517
ZZ60730		30	0.03	<10	<10	39	<10	257
ZZ60731		<20	0.13	<10	<10	47	<10	1835
ZZ60732		<20	0.25	<10	<10	72	<10	807
ZZ60733		<20	0.16	<10	<10	40	<10	479
ZZ60734		<20	0.42	<10	<10	113	<10	1300
ZZ60735		<20	0.18	<10	<10	68	<10	528
ZZ60736		<20	0.20	<10	<10	35	<10	150
ZZ60737		<20	0.12	<10	<10	70	<10	58
ZZ60738		<20	0.12	<10	<10	77	<10	54
ZZ60739		<20	0.17	<10	<10	61	<10	123
ZZ60740		<20	0.28	<10	<10	92	<10	87



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To: ARCHER, CATHRO AND ASSOCIATES (1981)
LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

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Project: Touleary

CERTIFICATE OF ANALYSIS WH12209423

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ60741		0.35	0.003	<0.2	1.79	3	<10	220	<0.5	<2	0.45	<0.5	12	24	30	2.85
ZZ60742		0.35	0.005	<0.2	2.27	5	<10	190	<0.5	2	0.31	<0.5	13	28	17	3.28
ZZ60743		0.39	0.006	<0.2	1.60	5	<10	210	<0.5	2	0.34	<0.5	9	31	21	2.67
ZZ60744		0.43	0.004	<0.2	1.88	3	<10	200	<0.5	2	0.41	<0.5	12	20	29	3.06
ZZ60745		0.37	0.001	<0.2	1.94	5	<10	170	<0.5	2	0.23	<0.5	7	27	23	2.78
ZZ60746		0.49	0.002	0.3	2.51	7	<10	270	0.5	2	0.50	<0.5	12	44	43	3.45
ZZ60747		0.43	0.008	<0.2	1.87	2	<10	210	<0.5	<2	0.48	<0.5	12	41	52	2.95
ZZ60748		0.39	0.002	<0.2	1.97	4	<10	220	<0.5	2	0.44	<0.5	10	27	20	3.16
ZZ60749		0.31	0.002	<0.2	1.89	3	<10	210	<0.5	<2	0.30	<0.5	17	28	25	2.88
ZZ60750		0.38	0.001	<0.2	2.91	<2	<10	330	0.5	<2	0.44	<0.5	14	18	16	4.39
ZZ60838		0.23	0.025	1.7	1.55	<2	<10	270	0.6	4	0.33	2.2	9	11	454	2.95
ZZ60839		0.21	0.008	<0.2	3.77	<2	<10	1130	3.3	<2	1.02	1.5	29	59	194	6.93
ZZ60840		0.57	0.004	0.6	1.72	3	<10	750	0.8	2	0.39	2.1	9	10	116	3.55
ZZ60841		0.53	0.002	<0.2	3.01	<2	<10	930	4.3	<2	0.69	1.0	29	49	100	4.77
ZZ60842		0.34	<0.001	<0.2	2.38	<2	<10	520	0.6	<2	0.53	<0.5	16	12	53	3.89
ZZ60843		0.40	<0.001	0.2	2.37	2	<10	300	0.5	2	0.23	<0.5	10	10	85	3.70
ZZ60844		0.46	0.003	1.7	2.11	<2	<10	470	0.6	3	0.48	<0.5	13	6	190	5.43
ZZ60845		0.48	0.002	<0.2	3.49	2	<10	450	0.7	2	0.47	1.5	24	99	227	4.67
ZZ60846		0.36	0.003	<0.2	1.70	3	<10	540	0.8	3	0.33	2.6	15	16	80	3.64
ZZ60847		0.32	0.002	<0.2	2.49	7	<10	250	<0.5	<2	0.25	<0.5	20	46	37	3.88
ZZ60848		0.33	0.003	<0.2	2.10	8	<10	230	<0.5	<2	0.38	<0.5	11	30	26	3.27
ZZ60849		0.25	<0.001	<0.2	2.06	7	<10	140	<0.5	<2	0.18	<0.5	13	34	16	3.60
ZZ60850		0.31	0.011	<0.2	1.94	10	<10	200	<0.5	<2	0.25	<0.5	8	37	24	3.02
ZZ60869		0.43	0.015	0.5	3.95	<2	<10	440	1.3	2	1.19	1.6	28	22	50	5.42
ZZ60870		0.26	0.001	0.3	1.69	7	<10	370	<0.5	<2	0.33	<0.5	9	24	22	3.06
ZZ60871		0.29	0.001	0.9	2.19	7	<10	440	0.6	2	0.42	<0.5	20	19	50	4.45
ZZ60872		0.20	0.002	0.4	1.95	4	<10	330	2.9	3	0.68	3.0	9	27	50	3.05
ZZ60873		0.38	0.003	0.2	1.65	8	<10	250	0.8	<2	0.33	<0.5	9	25	25	2.88
ZZ60874		0.37	0.001	<0.2	1.61	8	<10	320	0.7	2	0.37	<0.5	9	24	29	2.66
ZZ60875		0.36	0.001	0.2	1.34	2	<10	270	4.5	<2	0.34	<0.5	7	18	32	3.00
ZZ60876		0.29	0.001	<0.2	1.66	4	<10	190	<0.5	2	0.25	<0.5	7	27	11	2.62
ZZ60877		0.21	0.003	0.4	2.23	4	<10	390	<0.5	<2	0.39	0.5	9	23	14	2.99
ZZ60878		0.30	0.001	0.3	1.77	6	<10	320	<0.5	<2	0.38	<0.5	10	26	17	2.58
ZZ60879		0.30	0.006	<0.2	1.72	9	<10	250	0.5	2	0.35	<0.5	11	38	17	2.98
ZZ60880		0.39	0.005	<0.2	1.84	9	<10	270	0.5	<2	0.46	<0.5	11	34	26	3.20
ZZ60881		0.25	0.012	<0.2	1.53	7	<10	380	<0.5	<2	0.43	<0.5	9	30	18	2.57
ZZ60882		0.27	0.001	<0.2	1.56	8	<10	310	<0.5	2	0.41	<0.5	9	30	21	2.79
ZZ60883		0.32	0.005	<0.2	1.51	5	<10	180	<0.5	<2	0.20	<0.5	7	32	18	2.60
ZZ60884		0.36	0.002	<0.2	1.52	6	<10	290	<0.5	<2	0.24	<0.5	8	29	17	2.52
ZZ60885		0.30	0.005	<0.2	1.55	6	<10	230	<0.5	2	0.32	<0.5	7	32	16	2.52



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Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
ZZ60741		10	<1	0.44	10	0.95	472	<1	0.02	11	730	4	<0.01	<2	3	29
ZZ60742		10	<1	0.51	10	1.26	612	<1	0.01	13	610	4	<0.01	<2	3	19
ZZ60743		<10	<1	0.16	10	0.77	435	<1	0.02	15	400	11	<0.01	<2	4	26
ZZ60744		10	<1	0.67	50	1.12	638	<1	0.01	9	620	13	<0.01	<2	4	22
ZZ60745		10	<1	0.10	10	0.63	319	<1	0.01	13	290	14	<0.01	<2	3	19
ZZ60746		10	<1	0.26	40	0.99	534	1	0.02	21	490	8	<0.01	<2	6	32
ZZ60747		10	<1	0.34	20	1.04	382	<1	0.02	17	470	5	<0.01	<2	5	27
ZZ60748		10	<1	0.33	20	1.16	458	<1	0.02	13	530	4	<0.01	<2	4	27
ZZ60749		10	<1	0.20	10	0.79	923	1	0.02	12	370	6	<0.01	<2	4	24
ZZ60750		10	<1	1.60	30	1.81	849	<1	0.01	6	1340	4	<0.01	<2	3	32
ZZ60838		<10	<1	0.49	60	1.06	760	23	0.02	5	850	768	<0.01	<2	3	17
ZZ60839		10	1	2.65	20	2.65	2000	<1	0.03	19	3400	41	<0.01	<2	7	33
ZZ60840		10	<1	0.74	40	0.74	942	<1	0.01	6	790	342	<0.01	<2	8	20
ZZ60841		10	<1	1.48	10	2.41	1795	<1	0.02	24	1940	314	<0.01	<2	5	32
ZZ60842		10	<1	1.22	10	1.42	777	<1	0.02	6	1350	14	<0.01	<2	3	22
ZZ60843		10	<1	1.10	20	1.43	981	<1	0.01	6	560	182	<0.01	<2	2	14
ZZ60844		10	<1	1.18	30	0.86	1325	2	0.01	4	1390	164	<0.01	2	8	15
ZZ60845		10	1	1.66	20	2.84	1210	<1	0.02	45	1100	26	<0.01	<2	6	22
ZZ60846		10	<1	0.91	40	0.97	1700	4	0.01	7	970	56	<0.01	<2	7	18
ZZ60847		10	<1	0.16	10	0.99	1065	1	0.02	20	520	11	<0.01	<2	4	23
ZZ60848		10	<1	0.13	10	0.98	448	<1	0.02	18	520	6	<0.01	<2	4	29
ZZ60849		10	<1	0.18	10	0.83	555	1	0.01	17	470	7	0.02	<2	3	20
ZZ60850		10	<1	0.07	10	0.60	256	1	0.02	19	210	7	0.01	<2	3	20
ZZ60869		10	<1	1.72	30	3.15	2460	1	0.02	15	2350	119	0.01	<2	7	34
ZZ60870		10	<1	0.42	20	0.67	535	1	0.02	14	320	16	0.01	2	3	24
ZZ60871		10	<1	0.91	10	1.06	639	1	0.02	11	930	21	0.02	<2	7	22
ZZ60872		10	<1	0.32	20	0.80	946	<1	0.02	16	370	337	0.02	<2	6	39
ZZ60873		10	<1	0.17	10	0.64	333	1	0.02	13	260	47	0.01	<2	4	25
ZZ60874		<10	<1	0.31	20	0.73	359	1	0.02	12	420	9	0.01	<2	4	25
ZZ60875		<10	<1	0.53	30	0.60	575	2	0.01	8	720	13	0.02	<2	4	19
ZZ60876		10	<1	0.15	10	0.55	347	1	0.01	12	380	8	0.01	<2	3	19
ZZ60877		10	<1	0.46	10	1.49	993	1	0.01	15	460	26	0.01	<2	3	26
ZZ60878		10	<1	0.26	10	1.00	741	<1	0.02	16	300	26	0.01	<2	3	29
ZZ60879		<10	<1	0.19	10	0.56	618	<1	0.02	22	210	8	0.01	<2	6	28
ZZ60880		10	<1	0.17	10	0.72	524	<1	0.02	19	300	9	0.01	<2	5	30
ZZ60881		<10	<1	0.11	10	0.52	733	<1	0.02	18	250	9	0.02	<2	4	31
ZZ60882		10	<1	0.12	10	0.66	452	1	0.02	18	550	9	0.02	<2	4	29
ZZ60883		<10	<1	0.08	10	0.51	248	<1	0.01	16	160	8	0.01	<2	3	18
ZZ60884		10	<1	0.08	10	0.47	328	<1	0.02	16	180	8	0.01	<2	3	22
ZZ60885		10	<1	0.05	10	0.50	227	1	0.02	18	190	7	0.01	<2	3	23



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ60741		<20	0.16	<10	<10	61	<10	64
ZZ60742		<20	0.20	<10	<10	61	<10	73
ZZ60743		<20	0.13	<10	<10	60	<10	52
ZZ60744		20	0.14	<10	<10	45	<10	110
ZZ60745		<20	0.12	<10	<10	67	<10	114
ZZ60746		<20	0.15	<10	<10	79	<10	74
ZZ60747		<20	0.16	<10	<10	70	<10	56
ZZ60748		<20	0.17	<10	<10	73	<10	64
ZZ60749		<20	0.15	<10	<10	65	<10	63
ZZ60750		20	0.34	<10	<10	76	<10	124
ZZ60838		40	0.04	<10	<10	19	<10	1145
ZZ60839		<20	0.37	<10	<10	137	<10	473
ZZ60840		<20	0.12	<10	<10	50	<10	976
ZZ60841		<20	0.25	<10	<10	107	<10	509
ZZ60842		<20	0.25	<10	<10	70	<10	158
ZZ60843		<20	0.23	<10	<10	49	<10	790
ZZ60844		<20	0.26	<10	<10	48	<10	199
ZZ60845		<20	0.27	<10	<10	94	<10	2150
ZZ60846		<20	0.10	<10	<10	40	<10	211
ZZ60847		<20	0.17	<10	<10	88	<10	101
ZZ60848		<20	0.17	<10	<10	73	<10	73
ZZ60849		<20	0.17	<10	<10	83	<10	78
ZZ60850		<20	0.11	<10	<10	71	<10	46
ZZ60869		<20	0.33	<10	<10	140	<10	1065
ZZ60870		<20	0.16	<10	<10	58	<10	85
ZZ60871		<20	0.20	<10	<10	95	<10	92
ZZ60872		<20	0.13	<10	<10	58	<10	969
ZZ60873		<20	0.11	<10	<10	62	<10	138
ZZ60874		<20	0.12	<10	<10	56	<10	98
ZZ60875		<20	0.09	<10	<10	31	<10	132
ZZ60876		<20	0.10	<10	<10	59	<10	70
ZZ60877		<20	0.12	<10	<10	51	<10	289
ZZ60878		<20	0.10	<10	<10	54	<10	244
ZZ60879		<20	0.10	<10	<10	64	<10	69
ZZ60880		<20	0.12	<10	<10	62	<10	89
ZZ60881		<20	0.08	<10	<10	55	<10	54
ZZ60882		<20	0.07	<10	<10	52	<10	71
ZZ60883		<20	0.08	<10	<10	56	<10	50
ZZ60884		<20	0.08	<10	<10	58	<10	52
ZZ60885		<20	0.08	<10	<10	58	<10	55



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ60886		0.30	0.002	0.3	1.74	10	<10	190	<0.5	<2	0.24	<0.5	11	46	39	2.92
ZZ60887		0.27	0.002	<0.2	1.28	21	<10	130	0.6	<2	0.22	<0.5	12	29	38	3.02
ZZ60888		0.42	0.001	0.2	2.04	<2	<10	280	<0.5	2	0.16	<0.5	9	13	51	3.39
ZZ60889		0.42	0.002	0.2	1.91	3	<10	2680	<0.5	2	0.28	<0.5	11	12	200	2.96
ZZ60890		0.36	0.002	0.9	2.09	3	<10	320	0.5	6	0.37	0.6	11	51	131	3.53
ZZ60891		0.30	0.001	0.2	1.54	6	<10	340	<0.5	<2	0.25	<0.5	8	25	14	2.65
ZZ60892		0.36	0.003	<0.2	1.75	6	<10	340	<0.5	<2	0.37	<0.5	10	24	37	2.93
ZZ60893		0.29	0.002	<0.2	1.61	7	<10	240	<0.5	<2	0.16	<0.5	9	33	15	2.74
ZZ60894		0.30	0.002	<0.2	2.42	6	<10	390	<0.5	<2	0.16	0.7	11	23	20	4.02
ZZ60895		0.27	0.003	0.6	2.04	2	<10	450	0.6	2	0.45	<0.5	12	43	32	3.99
ZZ60896		0.47	0.003	<0.2	2.18	<2	<10	770	<0.5	<2	1.17	<0.5	17	11	57	3.47
ZZ60897		0.41	0.003	<0.2	1.93	6	<10	380	<0.5	<2	0.36	<0.5	15	43	37	3.07
ZZ60898		0.26	0.002	0.2	2.04	6	<10	370	<0.5	<2	0.24	<0.5	13	38	19	3.10
ZZ60899		0.32	0.001	<0.2	1.88	7	<10	310	<0.5	2	0.23	<0.5	12	35	27	3.14
ZZ60900		0.27	0.001	0.2	2.15	2	<10	550	<0.5	<2	0.39	<0.5	20	51	56	3.28
ZZ60907		0.46	0.002	<0.2	3.26	4	<10	1010	1.1	<2	1.20	1.3	32	166	68	5.25
ZZ60908		0.35	0.001	0.5	2.04	6	<10	560	0.5	2	0.47	<0.5	12	19	41	3.90
ZZ60909		0.29	0.001	0.5	2.08	4	<10	550	<0.5	<2	0.39	0.7	13	23	34	3.53
ZZ60910		0.33	0.003	0.5	1.94	6	<10	440	<0.5	<2	0.23	0.7	7	24	24	2.95
ZZ60911		0.23	0.003	<0.2	2.05	6	<10	510	<0.5	<2	0.26	0.7	11	29	27	3.26
ZZ60912		0.25	0.002	0.2	2.71	6	<10	360	0.5	<2	0.23	0.8	17	31	38	4.17
ZZ60913		0.25	<0.001	0.3	1.44	9	<10	230	0.7	<2	0.23	4.8	8	23	69	2.49
ZZ60914		0.23	0.003	<0.2	1.64	5	<10	260	<0.5	<2	0.26	0.6	10	32	20	2.73
ZZ60915		0.31	0.002	<0.2	1.77	4	<10	260	<0.5	<2	0.50	0.5	13	23	68	3.05
ZZ60916		0.25	0.002	<0.2	1.76	10	<10	300	0.5	<2	0.24	0.5	7	27	22	2.85
ZZ60917		0.28	0.003	<0.2	2.90	4	<10	1410	0.7	<2	0.26	0.7	13	29	60	4.51
ZZ60918		0.30	0.006	0.3	2.20	9	<10	420	0.7	<2	0.34	0.5	10	75	37	3.15
ZZ60919		0.23	0.001	<0.2	1.82	7	<10	220	0.5	<2	0.19	0.7	8	26	13	2.79
ZZ60920		0.30	0.003	0.3	1.99	9	<10	230	0.7	<2	0.18	0.5	8	35	20	2.87
ZZ60921		0.26	<0.001	<0.2	2.71	7	<10	320	<0.5	<2	0.24	0.9	12	35	28	3.97
ZZ60922		0.23	0.003	0.2	1.62	6	<10	380	<0.5	<2	0.26	0.7	9	29	12	2.61
ZZ60923		0.24	0.002	<0.2	1.53	4	<10	550	<0.5	<2	0.26	0.6	8	21	11	2.39
ZZ60924		0.35	0.003	<0.2	1.71	8	<10	170	<0.5	<2	0.18	0.5	7	23	25	2.56
ZZ60925		0.21	0.003	<0.2	1.42	2	<10	560	<0.5	<2	0.32	0.6	9	21	8	2.12
ZZ60926		0.24	0.005	<0.2	1.44	3	<10	340	<0.5	<2	0.12	0.6	9	21	10	2.15
ZZ60927		0.23	0.002	0.6	1.98	<2	<10	670	<0.5	<2	0.34	3.9	10	13	17	2.11
ZZ60928		0.24	0.003	<0.2	2.08	3	<10	410	<0.5	<2	0.31	1.1	9	23	12	2.79
ZZ60929		0.24	0.003	0.6	1.78	2	<10	470	<0.5	<2	0.45	1.9	10	22	13	2.34
ZZ60930		0.31	0.004	<0.2	2.20	10	<10	160	0.6	<2	0.34	0.6	12	47	24	3.24
ZZ60931		0.45	0.002	<0.2	2.75	4	<10	370	1.1	<2	0.42	1.3	15	21	69	4.62



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Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
ZZ60886		10	<1	0.07	10	0.56	258	2	0.01	38	330	9	0.03	<2	3	22
ZZ60887		<10	<1	0.10	30	0.41	256	2	0.01	48	850	13	0.02	<2	3	21
ZZ60888		10	<1	0.86	20	1.01	782	1	0.01	7	420	26	0.01	<2	3	11
ZZ60889		10	<1	0.46	10	0.75	432	<1	<0.01	6	710	275	0.05	<2	3	42
ZZ60890		10	<1	0.68	10	1.25	953	4	0.01	12	910	527	0.01	<2	4	17
ZZ60891		10	<1	0.09	10	0.47	486	1	0.01	18	440	7	0.01	<2	2	22
ZZ60892		10	<1	0.29	10	0.85	322	<1	0.02	15	690	5	0.01	<2	4	25
ZZ60893		<10	<1	0.10	10	0.51	343	<1	0.02	19	430	7	0.01	2	4	16
ZZ60894		10	<1	0.41	<10	1.05	570	<1	0.01	11	280	27	0.01	<2	3	18
ZZ60895		10	<1	0.69	30	1.05	788	<1	0.01	13	1000	22	0.02	<2	7	21
ZZ60896		<10	<1	1.47	10	1.86	393	<1	0.03	7	4300	<2	0.01	<2	4	38
ZZ60897		10	<1	0.18	10	1.10	353	<1	0.02	25	520	5	0.01	<2	5	30
ZZ60898		10	<1	0.11	10	0.65	758	<1	0.02	22	550	8	0.02	<2	3	22
ZZ60899		10	<1	0.18	10	0.84	320	<1	0.02	17	510	5	0.02	<2	3	26
ZZ60900		10	<1	0.49	10	1.31	555	<1	0.02	23	660	4	0.02	<2	4	40
ZZ60907		10	<1	1.65	10	2.90	1650	2	0.02	42	2780	22	0.01	<2	7	59
ZZ60908		10	<1	0.73	20	0.94	614	1	0.02	10	1290	33	0.02	<2	4	25
ZZ60909		10	<1	0.68	10	1.02	562	<1	0.01	10	860	17	0.01	<2	3	28
ZZ60910		10	<1	0.19	10	0.63	291	<1	0.01	9	370	17	<0.01	<2	3	21
ZZ60911		10	<1	0.24	10	0.85	409	<1	0.01	15	330	14	<0.01	<2	3	22
ZZ60912		10	<1	0.95	10	1.33	613	<1	0.01	16	640	28	<0.01	2	4	14
ZZ60913		<10	<1	0.29	10	0.58	545	1	0.01	14	230	59	<0.01	<2	3	19
ZZ60914		10	<1	0.17	10	0.58	471	<1	0.02	19	230	8	<0.01	<2	4	23
ZZ60915		10	<1	0.15	10	1.04	279	<1	0.03	15	430	4	<0.01	<2	6	30
ZZ60916		10	<1	0.12	10	0.53	261	1	0.01	13	330	10	0.01	<2	3	20
ZZ60917		10	<1	1.36	20	1.71	1095	5	0.01	15	600	9	0.05	2	7	41
ZZ60918		10	<1	0.09	20	0.74	391	<1	0.01	29	340	10	0.01	<2	7	28
ZZ60919		10	<1	0.08	10	0.45	430	<1	0.01	12	840	8	0.01	<2	3	16
ZZ60920		10	<1	0.05	10	0.54	558	1	0.01	16	180	10	0.01	<2	3	18
ZZ60921		10	<1	0.55	10	1.30	999	<1	0.01	13	550	8	0.01	<2	6	17
ZZ60922		<10	<1	0.12	10	0.44	966	<1	0.01	17	400	8	0.01	<2	3	23
ZZ60923		10	<1	0.08	10	0.38	859	1	0.02	11	390	8	0.01	<2	2	22
ZZ60924		10	<1	0.11	10	0.56	420	1	0.01	14	160	9	0.01	<2	3	21
ZZ60925		10	<1	0.04	10	0.32	1450	<1	0.02	11	1060	6	0.01	<2	2	33
ZZ60926		10	<1	0.11	10	0.32	2040	<1	0.01	10	600	7	0.01	<2	2	11
ZZ60927		10	<1	0.07	<10	0.40	2430	<1	0.02	8	1260	129	0.01	<2	2	33
ZZ60928		10	<1	0.05	10	0.47	687	<1	0.01	13	860	9	0.01	<2	2	36
ZZ60929		10	<1	0.10	10	0.43	1100	<1	0.02	13	490	95	0.01	<2	3	42
ZZ60930		10	<1	0.17	20	0.66	265	<1	0.01	29	220	9	<0.01	<2	7	23
ZZ60931		10	<1	1.46	50	1.75	1595	<1	0.01	9	1110	253	<0.01	<2	9	22



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ60886		<20	0.08	<10	<10	66	<10	54
ZZ60887		<20	0.04	<10	<10	54	<10	71
ZZ60888		20	0.15	<10	<10	30	<10	181
ZZ60889		<20	0.11	<10	<10	44	<10	333
ZZ60890		<20	0.15	<10	<10	58	<10	864
ZZ60891		<20	0.07	<10	<10	64	<10	57
ZZ60892		<20	0.14	<10	<10	74	<10	64
ZZ60893		<20	0.09	<10	<10	62	<10	84
ZZ60894		<20	0.20	<10	<10	85	<10	174
ZZ60895		<20	0.17	<10	<10	59	<10	120
ZZ60896		<20	0.29	<10	<10	98	<10	85
ZZ60897		<20	0.16	<10	<10	81	<10	56
ZZ60898		<20	0.11	<10	<10	78	<10	87
ZZ60899		<20	0.14	<10	<10	79	<10	65
ZZ60900		<20	0.19	<10	<10	89	<10	66
ZZ60907		<20	0.23	<10	<10	99	<10	314
ZZ60908		<20	0.17	<10	<10	60	<10	167
ZZ60909		<20	0.21	<10	<10	64	<10	123
ZZ60910		<20	0.16	<10	<10	69	<10	87
ZZ60911		<20	0.17	<10	<10	70	<10	98
ZZ60912		<20	0.25	<10	<10	86	<10	231
ZZ60913		<20	0.10	<10	<10	46	<10	339
ZZ60914		<20	0.12	<10	<10	62	<10	60
ZZ60915		<20	0.14	<10	<10	94	<10	51
ZZ60916		<20	0.09	<10	<10	65	<10	49
ZZ60917		<20	0.29	<10	<10	84	<10	255
ZZ60918		<20	0.10	<10	<10	69	<10	71
ZZ60919		<20	0.08	<10	<10	63	<10	72
ZZ60920		<20	0.09	<10	<10	65	<10	61
ZZ60921		<20	0.21	<10	<10	74	<10	181
ZZ60922		<20	0.08	<10	<10	57	<10	90
ZZ60923		<20	0.06	<10	<10	50	<10	81
ZZ60924		<20	0.07	<10	<10	42	<10	118
ZZ60925		<20	0.06	<10	<10	50	<10	158
ZZ60926		<20	0.06	<10	<10	49	<10	94
ZZ60927		<20	0.05	<10	<10	33	<10	896
ZZ60928		<20	0.08	<10	<10	59	<10	241
ZZ60929		<20	0.04	<10	<10	51	<10	396
ZZ60930		<20	0.12	<10	<10	70	<10	64
ZZ60931		<20	0.23	<10	<10	68	<10	654



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ60932		0.29	0.002	0.3	2.78	2	<10	390	0.8	<2	0.58	5.3	17	27	81	4.19
ZZ60933		0.32	0.001	<0.2	3.13	2	<10	530	0.6	<2	0.42	0.8	21	27	56	4.82
ZZ60934		0.38	0.002	<0.2	2.22	4	<10	370	0.5	<2	0.29	1.0	16	15	44	3.45
ZZ60935		0.43	0.001	0.2	3.19	<2	<10	410	0.5	2	0.22	1.2	13	34	58	4.95
ZZ60936		0.38	0.001	0.3	2.75	2	<10	520	0.7	<2	0.58	0.8	19	10	26	5.21
ZZ60937		0.29	0.006	<0.2	1.67	7	<10	350	<0.5	<2	0.30	<0.5	8	27	25	2.72
ZZ60938		0.34	0.003	<0.2	1.68	6	<10	310	<0.5	<2	0.31	0.5	7	24	18	2.79
ZZ60939		0.31	0.002	0.2	1.90	5	<10	480	<0.5	<2	0.49	0.6	12	31	18	2.74
ZZ60940		0.36	0.005	<0.2	2.11	8	<10	260	0.5	<2	0.32	0.6	11	36	28	3.21
ZZ60941		0.32	0.003	0.4	2.55	5	<10	470	0.5	<2	0.43	0.9	15	19	29	4.28
ZZ60942		0.34	0.005	<0.2	1.76	7	<10	280	<0.5	<2	0.25	0.5	7	22	16	2.75
ZZ60943		0.36	0.002	0.6	1.74	3	<10	340	<0.5	<2	0.18	0.7	5	17	28	3.31
ZZ60944		0.34	0.006	<0.2	2.20	8	<10	220	<0.5	<2	0.27	0.6	9	32	24	3.34
ZZ60945		0.29	0.003	<0.2	2.26	3	<10	190	<0.5	<2	0.33	<0.5	13	33	20	3.33
ZZ60946		0.31	0.002	<0.2	2.91	<2	<10	580	<0.5	<2	1.06	<0.5	22	66	120	4.95
ZZ60947		0.32	0.003	<0.2	1.79	8	<10	190	<0.5	<2	0.25	<0.5	10	35	17	2.87
ZZ60948		0.27	0.003	<0.2	1.75	7	<10	190	<0.5	3	0.27	<0.5	8	31	16	3.19
ZZ60949		0.28	0.003	<0.2	2.08	3	<10	150	<0.5	2	0.33	<0.5	11	46	24	3.16
ZZ60950		0.25	0.003	<0.2	2.05	9	<10	170	<0.5	2	0.25	<0.5	9	32	24	3.17
ZZ60951		0.25	0.003	<0.2	1.95	4	<10	240	<0.5	<2	0.25	<0.5	10	36	47	3.08
ZZ60952		0.28	0.003	0.2	1.83	3	<10	270	<0.5	2	0.41	<0.5	10	36	57	3.00
ZZ60953		0.26	0.003	<0.2	2.13	10	<10	190	<0.5	<2	0.24	<0.5	9	34	25	3.28
ZZ60954		0.24	0.003	<0.2	1.67	5	<10	230	<0.5	<2	0.31	<0.5	9	36	37	2.97
ZZ60955		0.25	0.003	0.2	2.22	4	<10	260	0.5	<2	0.38	<0.5	14	37	43	3.45
ZZ60956		0.20	0.002	0.2	1.71	7	<10	230	<0.5	<2	0.33	<0.5	9	30	18	2.86
ZZ60957		0.23	0.003	0.2	2.08	4	<10	260	<0.5	<2	0.39	<0.5	9	36	20	3.05
ZZ60958		0.31	0.024	0.2	2.08	9	<10	260	<0.5	<2	0.28	<0.5	10	36	22	3.20
ZZ60959		0.29	0.004	<0.2	2.06	6	<10	210	<0.5	<2	0.30	<0.5	9	38	24	2.98
ZZ60960		0.26	0.005	0.2	2.08	10	<10	230	<0.5	<2	0.20	<0.5	17	56	27	3.38
ZZ60961		0.25	0.005	<0.2	2.16	9	<10	160	<0.5	2	0.17	<0.5	9	34	17	3.40
ZZ60962		0.26	0.004	<0.2	2.00	6	<10	240	<0.5	<2	0.31	<0.5	10	28	20	3.13
ZZ60963		0.28	0.003	<0.2	2.58	3	<10	180	<0.5	<2	0.23	<0.5	11	19	19	3.67
ZZ60964		0.25	0.002	<0.2	2.69	5	<10	340	0.5	2	0.20	<0.5	12	34	42	4.13
ZZ60965		0.29	0.004	<0.2	1.90	10	<10	240	<0.5	<2	0.20	<0.5	9	36	20	3.02
ZZ60966		0.27	0.003	<0.2	2.22	3	<10	320	<0.5	3	0.30	<0.5	11	24	20	3.70
ZZ60967		0.30	0.003	<0.2	1.84	9	<10	360	<0.5	<2	0.37	<0.5	12	34	22	3.08
ZZ60968		0.32	0.008	0.2	2.34	2	<10	510	<0.5	<2	0.95	<0.5	21	64	77	3.86
ZZ60969		0.25	0.002	0.2	1.75	2	<10	230	<0.5	2	0.34	<0.5	9	35	27	2.74
ZZ60970		0.23	0.004	0.2	1.74	3	<10	240	<0.5	2	0.49	<0.5	10	40	50	2.66
ZZ60971		0.30	0.004	0.2	1.71	4	<10	220	<0.5	<2	0.38	<0.5	10	38	49	2.61



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Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
ZZ60932		10	<1	1.28	30	1.94	1885	<1	0.03	11	1360	1590	0.01	<2	8	24
ZZ60933		10	<1	1.44	10	1.96	1000	<1	0.01	15	820	31	0.01	<2	4	28
ZZ60934		10	<1	1.23	30	1.41	1230	1	0.01	7	620	64	0.01	<2	3	29
ZZ60935		10	<1	1.87	10	2.20	1515	5	0.01	15	730	169	0.02	2	2	17
ZZ60936		10	<1	0.56	20	1.38	1435	<1	0.01	3	1010	17	0.01	<2	7	32
ZZ60937		10	<1	0.18	10	0.58	442	1	0.01	15	340	9	0.01	<2	4	24
ZZ60938		10	<1	0.35	10	0.70	300	1	0.01	11	350	7	0.04	<2	3	43
ZZ60939		10	<1	0.27	10	0.70	740	<1	0.02	13	1210	5	0.01	<2	3	36
ZZ60940		10	<1	0.18	10	0.72	284	<1	0.01	22	410	8	<0.01	<2	4	27
ZZ60941		10	<1	0.80	10	1.17	933	<1	0.01	9	730	14	0.01	<2	3	25
ZZ60942		10	<1	0.17	10	0.54	276	<1	0.01	9	410	9	<0.01	<2	3	19
ZZ60943		10	<1	0.35	10	0.62	252	3	0.02	5	560	38	0.18	<2	2	30
ZZ60944		10	<1	0.08	10	0.74	351	<1	0.01	16	340	7	<0.01	<2	4	26
ZZ60945		10	<1	0.25	10	1.23	527	<1	0.02	17	480	6	0.01	2	3	31
ZZ60946		10	<1	1.36	10	2.37	629	<1	0.02	27	3290	8	0.01	<2	5	59
ZZ60947		10	<1	0.09	10	0.64	385	1	0.02	16	380	7	0.01	<2	3	20
ZZ60948		10	<1	0.27	10	0.65	457	1	0.02	14	290	8	0.01	<2	3	22
ZZ60949		10	<1	0.58	20	1.15	454	<1	0.02	18	580	6	0.01	<2	4	21
ZZ60950		10	<1	0.49	10	1.01	366	<1	0.02	17	470	6	0.02	<2	4	17
ZZ60951		10	<1	0.65	20	1.14	414	<1	0.01	18	350	42	0.02	<2	3	19
ZZ60952		10	<1	0.40	30	0.87	453	<1	0.02	16	440	10	0.02	<2	6	27
ZZ60953		10	1	0.36	10	0.84	339	1	0.01	17	270	11	0.01	<2	4	18
ZZ60954		10	<1	0.53	10	0.97	364	<1	0.02	14	420	9	0.01	<2	4	22
ZZ60955		10	<1	0.52	40	1.00	1080	1	0.02	14	440	10	0.02	<2	5	31
ZZ60956		10	<1	0.25	10	0.74	480	1	0.02	14	480	7	0.02	<2	3	26
ZZ60957		10	<1	0.49	20	1.09	498	1	0.02	16	500	6	0.02	<2	4	29
ZZ60958		10	<1	0.07	10	0.59	550	1	0.02	18	310	8	0.01	<2	4	24
ZZ60959		10	<1	0.06	10	0.76	321	<1	0.02	19	260	5	0.01	<2	4	26
ZZ60960		10	<1	0.06	10	0.70	564	<1	0.02	24	290	6	0.01	<2	5	19
ZZ60961		10	<1	0.06	10	0.58	310	1	0.01	16	330	9	0.02	<2	3	17
ZZ60962		10	<1	0.31	20	1.00	520	<1	0.02	15	470	5	0.01	<2	4	24
ZZ60963		10	<1	0.32	10	1.28	577	<1	0.01	10	330	5	0.01	<2	3	22
ZZ60964		10	<1	1.01	10	1.67	627	1	0.02	16	290	5	0.02	<2	3	20
ZZ60965		10	<1	0.15	10	0.65	304	<1	0.02	23	310	6	0.02	<2	4	19
ZZ60966		10	<1	0.82	10	1.24	628	<1	0.02	16	450	7	0.02	<2	4	19
ZZ60967		10	<1	0.24	10	0.74	678	<1	0.02	21	360	7	0.02	<2	4	28
ZZ60968		10	<1	0.83	10	1.84	507	<1	0.02	29	720	3	0.05	<2	7	58
ZZ60969		10	<1	0.60	20	0.89	807	<1	0.02	13	740	8	0.02	<2	4	22
ZZ60970		10	<1	0.19	20	0.85	267	<1	0.02	18	540	5	0.02	<2	5	31
ZZ60971		10	<1	0.18	20	0.84	253	<1	0.02	14	340	4	0.01	<2	4	26



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ60932		<20	0.25	<10	<10	81	<10	2550
ZZ60933		<20	0.30	<10	<10	90	<10	270
ZZ60934		<20	0.22	<10	<10	45	<10	371
ZZ60935		<20	0.32	<10	<10	84	<10	590
ZZ60936		<20	0.16	<10	<10	90	<10	129
ZZ60937		<20	0.11	<10	<10	55	<10	56
ZZ60938		<20	0.12	<10	<10	51	<10	62
ZZ60939		<20	0.13	<10	<10	56	<10	82
ZZ60940		<20	0.14	<10	<10	78	<10	61
ZZ60941		<20	0.24	<10	<10	95	<10	163
ZZ60942		<20	0.14	<10	<10	62	<10	59
ZZ60943		<20	0.15	<10	<10	46	<10	111
ZZ60944		<20	0.14	<10	<10	75	<10	69
ZZ60945		<20	0.20	<10	<10	73	<10	75
ZZ60946		<20	0.29	<10	<10	123	<10	95
ZZ60947		<20	0.12	<10	<10	70	<10	51
ZZ60948		<20	0.13	<10	<10	71	<10	89
ZZ60949		<20	0.17	<10	<10	64	<10	86
ZZ60950		<20	0.15	<10	<10	66	<10	87
ZZ60951		<20	0.19	<10	<10	70	<10	147
ZZ60952		<20	0.14	<10	<10	75	<10	67
ZZ60953		<20	0.14	<10	<10	72	<10	83
ZZ60954		<20	0.17	<10	<10	75	<10	64
ZZ60955		<20	0.16	<10	<10	85	<10	84
ZZ60956		<20	0.13	<10	<10	71	<10	64
ZZ60957		<20	0.16	<10	<10	64	<10	68
ZZ60958		<20	0.12	<10	<10	77	<10	53
ZZ60959		<20	0.13	<10	<10	66	<10	55
ZZ60960		<20	0.12	<10	<10	84	<10	51
ZZ60961		<20	0.10	<10	<10	77	<10	49
ZZ60962		<20	0.15	<10	<10	66	<10	72
ZZ60963		<20	0.22	<10	<10	74	<10	94
ZZ60964		<20	0.23	<10	<10	77	<10	115
ZZ60965		<20	0.13	<10	<10	67	<10	58
ZZ60966		<20	0.20	<10	<10	78	<10	94
ZZ60967		<20	0.14	<10	<10	68	<10	65
ZZ60968		<20	0.18	<10	<10	105	<10	69
ZZ60969		<20	0.14	<10	<10	55	<10	107
ZZ60970		<20	0.13	<10	<10	63	<10	52
ZZ60971		<20	0.14	<10	<10	65	<10	53



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ60972		0.32	0.005	<0.2	1.75	5	<10	170	<0.5	2	0.33	<0.5	8	25	15	2.76
ZZ60973		0.31	0.003	<0.2	1.86	4	<10	180	<0.5	<2	0.24	<0.5	8	24	30	3.09
ZZ60974		0.26	0.002	<0.2	2.14	4	<10	500	<0.5	<2	0.49	<0.5	16	66	31	3.42
ZZ60975		0.27	0.002	<0.2	2.17	5	<10	340	0.5	<2	0.22	<0.5	14	33	16	3.26
ZZ60976		0.30	0.004	<0.2	1.97	7	<10	350	<0.5	<2	0.20	<0.5	10	31	17	3.08
ZZ60977		0.26	0.003	<0.2	2.57	3	<10	620	<0.5	<2	0.36	<0.5	20	23	22	3.99
ZZ60978		0.22	0.003	<0.2	2.34	10	<10	350	<0.5	<2	0.22	<0.5	11	32	21	3.64
ZZ60979		0.28	0.002	<0.2	2.98	2	<10	230	<0.5	2	0.12	<0.5	12	24	48	4.79
ZZ60980		0.28	0.003	<0.2	1.48	6	<10	130	<0.5	2	0.22	<0.5	9	36	15	2.58
ZZ60981		0.33	0.003	<0.2	1.32	8	<10	190	0.5	2	0.25	<0.5	8	30	16	2.41
ZZ60982		0.22	0.003	<0.2	1.58	7	<10	160	<0.5	2	0.29	<0.5	8	33	15	2.69
ZZ60983		0.20	0.003	<0.2	1.70	5	<10	250	1.3	3	0.53	<0.5	14	48	27	3.53
ZZ60984		0.22	0.003	<0.2	1.69	7	<10	230	<0.5	2	0.32	<0.5	12	32	12	2.62
ZZ60985		0.27	0.002	<0.2	1.79	4	<10	230	0.8	2	0.26	<0.5	11	33	46	3.71
ZZ60986		0.31	0.006	<0.2	1.34	19	<10	360	0.9	4	0.40	<0.5	8	31	28	2.72
ZZ60987		0.24	0.005	<0.2	1.94	8	<10	180	<0.5	2	0.24	<0.5	10	52	16	2.89
ZZ60988		0.29	0.004	<0.2	1.67	9	<10	340	0.5	2	0.62	<0.5	10	32	28	2.90
ZZ60989		0.33	0.003	<0.2	3.37	4	<10	340	0.8	2	0.90	<0.5	20	76	78	5.14
ZZ60990		0.34	0.004	<0.2	1.43	23	<10	250	<0.5	2	0.30	<0.5	7	26	15	2.88
ZZ60991		0.29	0.004	<0.2	1.07	3	<10	310	0.9	3	0.32	<0.5	6	14	10	3.17
ZZ60992		0.31	0.008	<0.2	1.42	9	<10	350	0.6	3	1.12	<0.5	10	35	36	2.87
ZZ60993		0.29	0.002	<0.2	1.58	3	<10	220	<0.5	2	0.25	<0.5	11	29	19	2.84
ZZ60994		0.32	0.002	<0.2	2.04	3	<10	440	<0.5	<2	0.40	<0.5	16	38	56	3.24
ZZ60995		0.32	0.002	<0.2	2.00	2	<10	260	<0.5	3	0.24	<0.5	14	20	27	2.65
ZZ60996		0.24	0.001	<0.2	1.61	2	<10	290	<0.5	2	0.32	<0.5	9	25	18	2.13
ZZ60997		0.37	0.002	<0.2	1.84	9	<10	300	<0.5	2	0.23	<0.5	9	34	18	2.91
ZZ60998		0.29	0.002	<0.2	1.79	6	<10	260	<0.5	4	0.23	<0.5	10	32	19	2.85
ZZ60999		0.34	0.003	<0.2	1.62	6	<10	200	<0.5	2	0.27	<0.5	9	41	27	2.59
ZZ61000		0.29	0.001	<0.2	2.13	4	<10	170	<0.5	3	0.22	<0.5	11	39	33	3.21



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Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
ZZ60972		10	<1	0.22	20	0.74	286	<1	0.01	12	470	6	0.01	<2	3	22
ZZ60973		10	<1	0.39	10	0.84	346	<1	0.01	13	280	9	0.01	<2	3	19
ZZ60974		10	<1	0.36	10	1.16	486	<1	0.02	24	410	6	0.02	<2	5	34
ZZ60975		10	<1	0.33	10	0.81	697	<1	0.02	20	410	7	0.01	<2	4	21
ZZ60976		10	<1	0.27	10	0.84	482	<1	0.02	17	310	7	0.01	<2	4	20
ZZ60977		10	<1	0.50	<10	1.58	1475	<1	0.02	14	700	5	0.01	<2	3	33
ZZ60978		10	<1	0.22	10	0.72	632	<1	0.02	22	1250	9	0.02	<2	4	22
ZZ60979		10	<1	0.68	10	1.48	648	<1	0.01	11	910	10	0.03	<2	3	24
ZZ60980		10	<1	0.19	10	0.59	158	<1	0.02	23	160	9	0.01	<2	3	18
ZZ60981		<10	<1	0.06	10	0.41	303	<1	0.01	18	120	13	0.01	<2	3	23
ZZ60982		10	<1	0.06	10	0.51	243	<1	0.01	21	260	9	0.01	<2	2	21
ZZ60983		10	<1	0.08	20	0.70	449	1	0.02	35	300	11	0.02	<2	6	26
ZZ60984		<10	<1	0.06	10	0.42	356	<1	0.01	19	140	8	0.02	<2	4	24
ZZ60985		10	<1	0.08	10	0.45	245	3	0.01	50	580	9	0.02	<2	3	20
ZZ60986		<10	<1	0.07	30	0.38	350	<1	0.01	27	380	12	0.02	<2	5	23
ZZ60987		10	<1	0.06	10	0.66	256	<1	0.01	25	240	6	0.01	<2	4	18
ZZ60988		10	<1	0.04	10	0.55	279	<1	0.02	22	380	7	0.02	<2	6	30
ZZ60989		10	<1	0.45	10	2.36	816	<1	0.01	35	1780	6	0.01	<2	8	28
ZZ60990		<10	<1	0.12	10	0.50	286	1	0.01	15	290	7	0.01	<2	3	17
ZZ60991		<10	<1	0.16	20	0.21	506	<1	0.01	12	700	5	0.01	<2	14	12
ZZ60992		<10	<1	0.07	20	0.66	404	<1	0.03	32	570	7	0.02	2	7	34
ZZ60993		10	<1	0.08	<10	0.59	411	<1	0.01	16	340	4	0.01	<2	4	18
ZZ60994		10	<1	0.20	<10	1.24	678	<1	0.02	23	560	3	0.02	<2	3	31
ZZ60995		10	<1	0.04	<10	0.91	356	<1	0.02	14	410	3	0.01	<2	2	19
ZZ60996		<10	<1	0.03	<10	0.59	580	<1	0.02	13	720	3	0.01	<2	2	21
ZZ60997		10	<1	0.06	10	0.56	269	<1	0.01	19	560	6	0.02	<2	3	21
ZZ60998		<10	<1	0.11	10	0.60	282	<1	0.01	18	330	6	0.02	<2	3	22
ZZ60999		<10	<1	0.04	10	0.65	217	<1	0.01	21	240	5	0.01	<2	3	22
ZZ61000		10	<1	0.16	10	0.95	261	<1	0.02	24	250	3	0.02	<2	3	18



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ60972		<20	0.14	<10	<10	60	<10	57
ZZ60973		<20	0.13	<10	<10	61	<10	123
ZZ60974		<20	0.17	<10	<10	90	<10	58
ZZ60975		<20	0.14	<10	<10	71	<10	80
ZZ60976		<20	0.15	<10	<10	74	<10	73
ZZ60977		<20	0.26	<10	<10	101	<10	117
ZZ60978		<20	0.11	<10	<10	77	<10	82
ZZ60979		<20	0.19	<10	<10	103	<10	162
ZZ60980		<20	0.10	<10	<10	53	<10	58
ZZ60981		<20	0.06	<10	<10	53	<10	43
ZZ60982		<20	0.07	<10	<10	50	<10	50
ZZ60983		<20	0.03	<10	<10	57	<10	60
ZZ60984		<20	0.06	<10	<10	59	<10	41
ZZ60985		<20	0.02	<10	<10	67	<10	76
ZZ60986		<20	0.05	<10	<10	51	<10	56
ZZ60987		<20	0.07	<10	<10	63	<10	44
ZZ60988		<20	0.07	<10	<10	62	<10	48
ZZ60989		<20	0.15	<10	<10	123	<10	74
ZZ60990		<20	0.08	<10	<10	59	<10	50
ZZ60991		<20	0.01	<10	<10	36	<10	42
ZZ60992		<20	0.07	<10	<10	60	<10	53
ZZ60993		<20	0.07	<10	<10	64	<10	45
ZZ60994		<20	0.13	<10	<10	68	<10	76
ZZ60995		<20	0.11	<10	<10	63	<10	84
ZZ60996		<20	0.05	<10	<10	52	<10	61
ZZ60997		<20	0.07	<10	<10	64	<10	48
ZZ60998		<20	0.09	<10	<10	64	<10	47
ZZ60999		<20	0.08	<10	<10	57	<10	39
ZZ61000		<20	0.12	<10	<10	72	<10	46



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Method	CERTIFICATE COMMENTS
ME- ICP41	Uranium ICP- AES results reported below 250 ppm are considered to be semi- quantitative due to interference when Ce > 250 ppm



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CERTIFICATE WH12209424

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P.O. No.:

This report is for 189 Soil samples submitted to our lab in Whitehorse, YT, Canada on 4- SEP- 2012.

The following have access to data associated with this certificate:

JOAN MARIACHER

HEATHER SMITH

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ63801		0.22	0.002	<0.2	1.75	9	<10	160	<0.5	<2	0.21	<0.5	7	28	17	2.89
ZZ63802		0.25	0.005	0.2	2.15	9	<10	220	<0.5	2	0.27	<0.5	15	42	49	3.43
ZZ63803		0.28	0.002	<0.2	1.56	8	<10	190	<0.5	<2	0.18	<0.5	11	27	15	2.83
ZZ63804		0.25	0.004	<0.2	2.03	6	<10	220	<0.5	<2	0.25	<0.5	11	30	23	2.83
ZZ63805		0.32	0.004	0.2	2.05	5	<10	230	<0.5	<2	0.33	<0.5	13	35	58	3.19
ZZ63806		0.31	0.002	<0.2	2.37	10	<10	270	<0.5	<2	0.22	<0.5	17	41	45	3.52
ZZ63807		0.29	0.001	<0.2	2.36	4	<10	220	<0.5	<2	0.38	<0.5	13	27	32	3.50
ZZ63808		0.29	0.001	<0.2	2.04	8	<10	250	<0.5	<2	0.23	<0.5	18	32	21	3.15
ZZ63809		0.23	0.002	<0.2	1.53	3	<10	180	<0.5	<2	0.25	<0.5	8	20	14	2.46
ZZ63810		0.40	0.003	<0.2	1.87	5	<10	280	<0.5	<2	0.49	<0.5	13	38	53	2.75
ZZ63811		0.36	0.001	<0.2	2.23	5	<10	230	<0.5	<2	0.33	<0.5	14	23	38	3.70
ZZ63812		0.23	0.002	0.2	2.47	9	<10	230	<0.5	<2	0.23	<0.5	14	31	27	3.50
ZZ63813		0.34	0.002	<0.2	2.37	7	<10	200	<0.5	<2	0.17	<0.5	12	29	26	3.30
ZZ63814		0.39	0.002	<0.2	2.31	8	<10	200	<0.5	<2	0.14	<0.5	11	40	46	3.98
ZZ63815		0.26	0.001	<0.2	2.74	8	<10	270	1.2	<2	0.22	<0.5	13	28	39	4.22
ZZ63816		0.18	0.001	0.4	1.88	9	<10	200	<0.5	<2	0.16	<0.5	9	29	16	3.29
ZZ63817		0.29	0.001	0.2	2.16	7	<10	290	<0.5	<2	0.25	<0.5	13	32	23	3.37
ZZ63818		0.23	0.001	0.2	2.33	4	<10	340	<0.5	<2	0.39	<0.5	11	19	24	3.52
ZZ63819		0.29	0.002	<0.2	1.70	10	<10	210	<0.5	<2	0.34	<0.5	8	27	16	2.67
ZZ63820		0.22	0.004	<0.2	2.25	3	<10	670	0.5	<2	0.42	<0.5	14	87	21	3.52
ZZ63821		0.17	0.001	0.3	1.70	2	<10	500	<0.5	<2	0.26	<0.5	13	29	15	2.80
ZZ63822		0.13	0.001	0.3	2.05	<2	<10	420	<0.5	2	0.40	<0.5	14	27	26	3.35
ZZ63823		0.21	0.004	<0.2	1.94	7	<10	240	0.6	<2	0.33	<0.5	11	32	27	3.20
ZZ63824		0.18	0.002	0.3	2.03	4	<10	490	<0.5	2	0.35	<0.5	13	25	20	3.36
ZZ63825		0.26	0.001	0.2	1.48	5	<10	410	<0.5	<2	0.34	<0.5	9	27	12	2.52
ZZ63826		0.26	0.001	<0.2	1.56	6	<10	330	<0.5	<2	0.27	<0.5	11	28	13	2.61
ZZ63827		0.29	0.002	<0.2	1.98	8	<10	300	<0.5	2	0.26	<0.5	10	33	23	3.20
ZZ63828		0.27	0.002	0.2	1.78	7	<10	260	<0.5	2	0.23	<0.5	10	25	23	2.93
ZZ63829		0.24	0.001	0.2	2.10	9	<10	300	<0.5	<2	0.21	<0.5	11	35	20	3.18
ZZ63830		0.27	0.002	<0.2	2.45	6	<10	370	0.8	<2	0.18	<0.5	14	30	24	3.72
ZZ63831		0.17	0.001	0.2	1.97	8	<10	280	<0.5	<2	0.17	<0.5	11	34	16	2.92
ZZ63832		0.27	0.002	<0.2	1.64	4	<10	190	<0.5	<2	0.21	<0.5	8	34	13	2.58
ZZ63833		0.20	0.001	<0.2	1.65	6	<10	130	<0.5	<2	0.24	<0.5	7	29	10	2.49
ZZ63834		0.19	0.001	<0.2	1.75	3	<10	170	<0.5	<2	0.18	<0.5	7	30	13	2.62
ZZ63835		0.25	0.002	<0.2	2.05	9	<10	220	<0.5	<2	0.30	<0.5	9	39	18	2.97
ZZ63836		0.24	0.002	<0.2	1.74	8	<10	230	<0.5	<2	0.32	<0.5	9	33	20	2.62
ZZ63837		0.31	0.001	<0.2	1.85	5	<10	210	<0.5	<2	0.40	<0.5	9	59	44	2.87
ZZ63838		0.21	0.002	<0.2	1.70	4	<10	250	<0.5	<2	0.42	<0.5	9	50	21	2.64
ZZ63839		0.25	0.003	<0.2	1.75	5	<10	280	<0.5	<2	0.52	<0.5	9	31	35	2.87
ZZ63840		0.34	0.001	<0.2	1.65	4	<10	200	<0.5	<2	0.30	<0.5	11	24	21	2.67



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Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
ZZ63801		10	<1	0.09	10	0.56	245	1	0.01	16	200	7	<0.01	2	3	18
ZZ63802		10	<1	0.11	10	0.92	337	1	0.01	25	610	8	<0.01	<2	4	21
ZZ63803		10	<1	0.12	10	0.59	482	1	0.02	15	380	8	<0.01	<2	3	17
ZZ63804		10	<1	0.14	20	0.69	513	1	0.02	15	290	16	<0.01	<2	4	21
ZZ63805		10	<1	0.25	10	0.93	398	1	0.02	19	520	10	<0.01	<2	5	22
ZZ63806		10	<1	0.09	10	0.80	323	1	0.02	24	680	9	<0.01	<2	4	17
ZZ63807		10	<1	0.14	20	1.28	415	1	0.02	10	310	9	<0.01	<2	4	39
ZZ63808		10	<1	0.16	10	0.72	882	1	0.02	20	400	8	<0.01	<2	3	20
ZZ63809		10	<1	0.35	10	0.61	527	1	0.02	9	320	6	<0.01	<2	2	22
ZZ63810		10	<1	0.26	10	0.91	431	1	0.02	18	610	5	0.01	<2	5	31
ZZ63811		10	<1	0.70	10	1.23	433	<1	0.02	11	560	5	<0.01	2	3	27
ZZ63812		10	<1	0.13	10	0.82	643	1	0.02	17	370	11	<0.01	<2	5	22
ZZ63813		10	<1	0.11	10	0.73	676	1	0.01	14	270	10	<0.01	<2	4	20
ZZ63814		10	<1	0.27	10	0.99	301	1	0.01	17	320	6	0.01	<2	3	17
ZZ63815		10	<1	0.47	10	1.16	665	1	0.02	15	590	9	<0.01	2	4	17
ZZ63816		10	<1	0.14	10	0.49	418	1	0.02	16	380	10	<0.01	<2	3	16
ZZ63817		10	<1	0.29	10	1.03	583	1	0.01	18	380	8	<0.01	2	3	24
ZZ63818		10	<1	0.94	10	1.38	715	1	0.02	11	800	8	<0.01	2	3	26
ZZ63819		10	<1	0.23	10	0.62	308	<1	0.01	17	730	7	<0.01	<2	3	24
ZZ63820		10	<1	0.67	30	1.41	685	<1	0.02	44	770	8	0.01	2	5	28
ZZ63821		<10	<1	0.37	10	0.67	1110	1	0.02	17	360	9	<0.01	<2	4	24
ZZ63822		10	<1	0.41	10	1.11	360	<1	0.02	15	370	6	0.01	2	4	32
ZZ63823		10	<1	0.28	20	0.71	441	1	0.02	20	310	12	<0.01	<2	7	22
ZZ63824		10	<1	0.46	10	0.98	699	1	0.02	17	470	7	0.01	<2	4	23
ZZ63825		<10	<1	0.21	10	0.52	800	<1	0.02	18	390	8	<0.01	2	3	25
ZZ63826		<10	<1	0.16	10	0.49	776	<1	0.02	18	350	7	<0.01	<2	3	25
ZZ63827		10	<1	0.36	10	0.86	390	1	0.02	22	310	12	<0.01	<2	4	22
ZZ63828		10	<1	0.29	10	0.73	589	1	0.02	14	480	9	<0.01	<2	3	18
ZZ63829		10	<1	0.15	10	0.66	537	1	0.01	19	300	31	<0.01	2	4	21
ZZ63830		10	<1	0.30	10	0.90	733	1	0.02	13	500	10	<0.01	<2	4	17
ZZ63831		10	<1	0.07	10	0.47	340	1	0.02	23	270	10	<0.01	<2	3	20
ZZ63832		<10	<1	0.09	10	0.43	228	1	0.01	20	200	12	0.01	<2	3	21
ZZ63833		10	<1	0.07	10	0.42	214	1	0.01	15	150	8	0.01	<2	2	20
ZZ63834		10	1	0.05	10	0.52	605	1	0.01	16	230	9	0.01	<2	3	16
ZZ63835		10	<1	0.07	10	0.55	302	1	0.01	24	200	11	0.02	<2	3	21
ZZ63836		10	<1	0.05	10	0.49	260	1	0.01	19	380	9	0.03	<2	4	24
ZZ63837		10	<1	0.14	10	0.97	264	1	0.02	22	550	4	0.03	<2	4	29
ZZ63838		10	<1	0.10	10	0.75	221	1	0.02	22	390	5	0.04	<2	3	23
ZZ63839		10	<1	0.21	10	0.80	352	1	0.02	17	650	4	0.02	<2	5	31
ZZ63840		10	<1	0.10	10	0.60	831	1	0.01	11	570	5	0.02	<2	3	21



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ63801		<20	0.10	<10	<10	65	<10	44
ZZ63802		<20	0.12	<10	<10	87	<10	69
ZZ63803		<20	0.11	<10	<10	67	<10	49
ZZ63804		<20	0.12	<10	<10	67	<10	67
ZZ63805		<20	0.15	<10	<10	78	<10	75
ZZ63806		<20	0.11	<10	<10	85	<10	79
ZZ63807		<20	0.16	<10	<10	77	<10	82
ZZ63808		<20	0.13	<10	<10	73	<10	66
ZZ63809		<20	0.16	<10	<10	54	<10	54
ZZ63810		<20	0.14	<10	<10	60	<10	55
ZZ63811		<20	0.24	<10	<10	89	<10	73
ZZ63812		<20	0.15	<10	<10	75	<10	74
ZZ63813		<20	0.13	<10	<10	70	<10	83
ZZ63814		<20	0.19	<10	<10	106	<10	57
ZZ63815		<20	0.16	<10	<10	84	<10	86
ZZ63816		<20	0.11	<10	<10	76	<10	66
ZZ63817		<20	0.16	<10	<10	77	<10	80
ZZ63818		<20	0.20	<10	<10	76	<10	97
ZZ63819		<20	0.11	<10	<10	58	<10	56
ZZ63820		<20	0.17	<10	<10	77	<10	86
ZZ63821		<20	0.13	<10	<10	58	<10	70
ZZ63822		<20	0.16	<10	<10	80	<10	61
ZZ63823		<20	0.11	<10	<10	63	<10	73
ZZ63824		<20	0.16	<10	<10	73	<10	71
ZZ63825		<20	0.10	<10	<10	53	<10	55
ZZ63826		<20	0.09	<10	<10	57	<10	55
ZZ63827		<20	0.15	<10	<10	69	<10	87
ZZ63828		<20	0.12	<10	<10	61	<10	97
ZZ63829		<20	0.11	<10	<10	71	<10	113
ZZ63830		<20	0.16	<10	<10	85	<10	85
ZZ63831		<20	0.07	<10	<10	61	<10	54
ZZ63832		<20	0.08	<10	<10	58	<10	44
ZZ63833		<20	0.07	<10	<10	61	<10	44
ZZ63834		<20	0.06	<10	<10	61	<10	42
ZZ63835		<20	0.06	<10	<10	63	<10	48
ZZ63836		<20	0.07	<10	<10	58	<10	43
ZZ63837		<20	0.11	<10	<10	73	<10	41
ZZ63838		<20	0.11	<10	<10	63	<10	48
ZZ63839		<20	0.12	<10	<10	65	<10	52
ZZ63840		<20	0.11	<10	<10	64	<10	46



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ63841		0.21	0.002	<0.2	1.78	4	<10	150	<0.5	<2	0.23	<0.5	8	34	25	2.80
ZZ63842		0.27	0.003	<0.2	1.87	3	<10	270	<0.5	<2	0.41	<0.5	12	35	25	2.87
ZZ63843		0.24	0.002	0.3	1.43	<2	<10	140	<0.5	<2	0.27	<0.5	7	21	52	2.43
ZZ63844		0.35	0.001	<0.2	2.48	2	<10	310	<0.5	<2	0.44	<0.5	15	38	68	3.63
ZZ63845		0.30	0.007	<0.2	1.80	7	<10	250	<0.5	<2	0.58	<0.5	11	41	57	3.04
ZZ63846		0.31	0.001	<0.2	1.88	4	<10	290	<0.5	<2	0.41	<0.5	13	36	41	3.13
ZZ63847		0.34	<0.001	<0.2	1.70	5	<10	290	<0.5	<2	0.46	<0.5	11	33	31	2.73
ZZ63848		0.26	0.003	<0.2	1.52	5	<10	680	<0.5	<2	0.89	<0.5	10	27	24	2.49
ZZ63849		0.39	0.004	<0.2	1.37	5	<10	260	<0.5	<2	1.10	<0.5	10	29	30	2.58
ZZ63850		0.41	0.003	<0.2	1.42	5	<10	290	<0.5	<2	1.11	<0.5	10	31	35	2.56
ZZ63851		0.38	<0.001	<0.2	2.67	<2	<10	310	0.5	<2	0.35	<0.5	9	16	50	4.11
ZZ63852		0.38	0.002	<0.2	2.24	<2	<10	430	<0.5	<2	0.51	<0.5	16	64	58	2.99
ZZ63853		0.34	0.001	<0.2	2.69	8	<10	310	<0.5	<2	0.24	<0.5	12	44	39	3.77
ZZ63854		0.37	0.004	<0.2	2.76	7	<10	240	0.6	<2	0.21	<0.5	13	116	36	3.61
ZZ63855		0.33	0.002	<0.2	2.35	4	<10	330	0.5	<2	0.32	<0.5	12	39	43	3.39
ZZ63856		0.37	0.002	<0.2	2.37	6	<10	280	0.6	<2	0.28	<0.5	10	32	22	3.61
ZZ63857		0.34	0.002	0.2	2.18	6	<10	580	0.6	<2	0.22	<0.5	8	28	15	3.28
ZZ63858		0.39	0.006	<0.2	2.22	10	<10	430	0.7	<2	0.23	<0.5	10	41	32	3.34
ZZ63859		0.41	0.003	<0.2	2.41	2	<10	370	0.6	<2	0.23	<0.5	11	19	17	3.77
ZZ63860		0.35	0.004	<0.2	1.83	7	<10	240	0.5	<2	0.40	<0.5	9	40	28	3.05
ZZ63861		0.37	0.002	<0.2	1.83	10	<10	170	<0.5	<2	0.29	<0.5	9	34	18	2.88
ZZ63862		0.37	0.002	<0.2	2.70	4	<10	370	0.5	<2	0.52	<0.5	19	55	44	4.94
ZZ63863		0.26	0.003	<0.2	1.91	2	<10	240	<0.5	<2	0.35	<0.5	11	31	16	3.08
ZZ63864		0.32	0.003	<0.2	1.86	5	<10	240	<0.5	<2	0.33	<0.5	13	52	16	2.94
ZZ63865		0.30	0.001	<0.2	2.43	4	<10	770	<0.5	<2	0.18	<0.5	7	19	34	4.43
ZZ63866		0.37	0.001	<0.2	1.86	4	<10	290	<0.5	<2	0.26	<0.5	8	22	12	2.88
ZZ63867		0.39	0.003	<0.2	2.14	6	<10	300	0.5	<2	0.24	<0.5	9	27	37	3.94
ZZ63868		0.37	0.002	0.2	1.88	10	<10	340	<0.5	<2	0.23	<0.5	8	31	17	2.91
ZZ63869		0.33	0.004	0.2	2.75	8	<10	270	0.5	<2	0.19	<0.5	15	29	29	4.21
ZZ63870		0.37	0.005	0.4	2.42	13	<10	980	0.5	<2	0.18	<0.5	9	39	31	3.43
ZZ63871		0.38	0.004	<0.2	2.28	9	<10	300	<0.5	<2	0.25	<0.5	11	36	30	3.42
ZZ63872		0.36	0.002	<0.2	1.93	9	<10	290	<0.5	<2	0.21	<0.5	8	24	16	3.33
ZZ63873		0.38	0.006	<0.2	1.22	10	<10	230	<0.5	<2	0.66	<0.5	9	28	32	2.44
ZZ63874		0.39	0.004	<0.2	1.33	8	<10	330	<0.5	<2	0.72	<0.5	10	29	29	2.40
ZZ63875		0.43	0.004	<0.2	1.41	21	<10	370	0.8	<2	0.84	<0.5	20	55	44	3.82
ZZ63876		0.38	0.004	<0.2	1.58	16	<10	310	0.6	<2	0.41	<0.5	10	33	24	2.85
ZZ63877		0.40	0.003	<0.2	2.14	4	<10	280	0.6	<2	0.39	<0.5	19	52	31	3.99
ZZ63878		0.34	0.004	<0.2	1.63	8	<10	280	0.8	<2	1.02	<0.5	9	31	33	2.59
ZZ63879		0.34	0.004	<0.2	1.57	10	<10	200	0.5	<2	0.72	<0.5	10	46	26	2.70
ZZ63880		0.37	0.005	0.2	1.47	11	<10	240	0.5	<2	0.84	<0.5	11	51	34	2.52



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Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
ZZ63841		10	<1	0.06	10	0.52	200	1	0.01	18	290	7	0.02	<2	3	18
ZZ63842		10	1	0.28	10	0.79	501	1	0.02	18	310	6	0.02	<2	4	26
ZZ63843		<10	<1	0.15	10	0.60	309	1	0.02	12	360	6	0.02	<2	4	19
ZZ63844		10	<1	0.70	10	1.60	446	<1	0.02	21	460	4	0.02	<2	6	22
ZZ63845		10	<1	0.25	10	0.85	368	1	0.02	25	630	5	0.02	<2	8	31
ZZ63846		10	<1	0.13	10	0.67	525	1	0.02	20	490	7	0.02	<2	6	24
ZZ63847		<10	<1	0.10	10	0.62	833	1	0.02	18	320	5	0.02	<2	4	28
ZZ63848		<10	<1	0.26	10	0.44	1075	1	0.03	18	570	7	0.03	<2	4	48
ZZ63849		<10	1	0.06	10	0.59	351	1	0.03	20	680	5	0.03	<2	5	46
ZZ63850		<10	<1	0.06	10	0.61	421	<1	0.03	21	700	5	0.03	2	5	46
ZZ63851		10	<1	1.25	20	1.50	733	<1	0.01	6	950	16	0.01	<2	5	21
ZZ63852		10	<1	0.51	<10	1.46	358	<1	0.02	27	960	4	0.01	<2	3	33
ZZ63853		10	<1	0.48	10	1.11	483	1	0.01	22	270	7	0.01	<2	4	37
ZZ63854		10	<1	0.09	10	0.77	332	1	0.01	35	420	9	0.02	<2	5	20
ZZ63855		10	<1	0.18	20	0.90	467	1	0.02	20	460	56	0.01	<2	5	24
ZZ63856		10	<1	0.27	20	0.72	438	1	0.01	17	630	18	0.01	<2	5	21
ZZ63857		10	<1	0.19	20	0.71	443	1	0.01	13	310	8	0.01	<2	4	20
ZZ63858		10	<1	0.11	20	0.64	386	1	0.01	24	190	10	0.01	<2	7	23
ZZ63859		10	<1	0.93	10	1.28	693	<1	0.01	7	310	18	0.01	<2	4	19
ZZ63860		10	<1	0.21	20	0.68	352	<1	0.01	23	330	7	0.01	<2	8	30
ZZ63861		10	<1	0.22	10	0.73	312	1	0.01	22	210	8	0.01	<2	4	23
ZZ63862		10	<1	0.64	10	1.65	544	<1	0.01	27	590	4	0.01	<2	7	32
ZZ63863		10	<1	0.39	10	0.82	463	1	0.01	15	220	8	0.01	<2	5	23
ZZ63864		10	<1	0.09	10	0.81	369	1	0.01	24	260	5	0.01	<2	4	24
ZZ63865		10	<1	0.77	10	1.07	339	1	0.04	9	760	5	0.31	<2	5	74
ZZ63866		10	<1	0.20	10	0.65	627	1	0.01	11	590	7	0.01	<2	3	21
ZZ63867		10	<1	0.44	10	0.78	458	1	0.01	14	290	21	0.02	<2	6	21
ZZ63868		10	<1	0.12	10	0.55	401	1	0.01	18	290	13	0.01	<2	3	22
ZZ63869		10	<1	0.35	10	1.12	502	<1	0.01	18	360	15	0.01	<2	4	18
ZZ63870		10	<1	0.06	10	0.55	316	1	0.02	20	290	39	0.02	<2	5	28
ZZ63871		10	<1	0.23	10	0.81	386	<1	0.01	18	370	24	0.01	<2	3	21
ZZ63872		10	<1	0.17	10	0.54	314	<1	0.01	10	370	12	0.01	<2	4	18
ZZ63873		<10	<1	0.08	10	0.54	426	<1	0.03	25	690	6	0.01	<2	5	41
ZZ63874		<10	<1	0.06	10	0.48	447	<1	0.03	27	510	7	0.02	2	4	39
ZZ63875		10	<1	0.33	10	0.82	648	<1	0.02	36	910	5	0.01	<2	11	32
ZZ63876		<10	<1	0.08	20	0.40	277	1	0.01	25	230	25	0.01	<2	5	24
ZZ63877		10	<1	0.92	20	0.92	300	<1	0.01	45	870	108	0.03	<2	5	18
ZZ63878		<10	<1	0.08	40	0.56	282	<1	0.02	29	540	13	0.04	<2	4	45
ZZ63879		<10	<1	0.05	30	0.73	278	<1	0.02	46	550	10	0.03	<2	4	34
ZZ63880		<10	<1	0.05	20	0.73	311	<1	0.03	59	570	7	0.03	<2	4	41



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ63841		<20	0.09	<10	<10	74	<10	42
ZZ63842		<20	0.12	<10	<10	77	<10	54
ZZ63843		<20	0.09	<10	<10	66	<10	38
ZZ63844		<20	0.16	<10	<10	113	<10	62
ZZ63845		<20	0.12	<10	<10	79	<10	52
ZZ63846		<20	0.09	<10	<10	71	<10	47
ZZ63847		<20	0.09	<10	<10	61	<10	40
ZZ63848		<20	0.08	<10	<10	54	<10	43
ZZ63849		<20	0.08	<10	<10	58	<10	51
ZZ63850		<20	0.07	<10	<10	58	<10	50
ZZ63851		<20	0.23	<10	<10	60	<10	217
ZZ63852		<20	0.19	<10	<10	78	<10	54
ZZ63853		<20	0.19	<10	<10	75	<10	84
ZZ63854		<20	0.13	<10	<10	79	<10	53
ZZ63855		<20	0.15	<10	<10	75	<10	124
ZZ63856		<20	0.12	<10	<10	64	<10	122
ZZ63857		<20	0.12	<10	<10	61	<10	99
ZZ63858		<20	0.12	<10	<10	69	<10	68
ZZ63859		<20	0.21	<10	<10	77	<10	120
ZZ63860		<20	0.13	<10	<10	66	<10	59
ZZ63861		<20	0.13	<10	<10	62	<10	57
ZZ63862		<20	0.18	<10	<10	128	<10	77
ZZ63863		<20	0.12	<10	<10	65	<10	87
ZZ63864		<20	0.12	<10	<10	73	<10	51
ZZ63865		<20	0.17	<10	<10	95	<10	59
ZZ63866		<20	0.11	<10	<10	50	<10	97
ZZ63867		<20	0.15	<10	<10	74	<10	189
ZZ63868		<20	0.10	<10	<10	66	<10	65
ZZ63869		<20	0.18	<10	<10	110	<10	133
ZZ63870		<20	0.10	<10	<10	76	<10	79
ZZ63871		<20	0.16	<10	<10	75	<10	91
ZZ63872		<20	0.12	<10	<10	66	<10	61
ZZ63873		<20	0.09	<10	<10	56	<10	50
ZZ63874		<20	0.08	<10	<10	52	<10	42
ZZ63875		<20	0.07	<10	<10	87	<10	67
ZZ63876		<20	0.07	<10	<10	57	<10	45
ZZ63877		<20	0.16	<10	<10	49	<10	57
ZZ63878		<20	0.05	<10	<10	42	<10	53
ZZ63879		<20	0.06	<10	<10	49	<10	54
ZZ63880		<20	0.07	<10	<10	48	<10	50



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ63881		0.35	0.003	<0.2	1.51	9	<10	200	0.5	<2	0.62	<0.5	10	37	26	2.63
ZZ63882		0.36	0.008	<0.2	1.44	9	<10	190	<0.5	<2	0.46	<0.5	8	31	16	2.42
ZZ63883		0.32	0.003	<0.2	1.40	9	<10	260	<0.5	<2	0.77	<0.5	10	33	24	2.43
ZZ63884		0.34	0.005	<0.2	1.28	10	<10	240	<0.5	<2	0.55	<0.5	9	28	17	2.29
ZZ63885		0.36	0.003	<0.2	1.85	6	<10	240	<0.5	<2	0.71	<0.5	11	51	39	2.92
ZZ63886		0.32	0.002	<0.2	2.39	8	<10	240	0.5	<2	0.46	<0.5	16	49	49	4.00
ZZ63887		0.37	0.005	<0.2	1.93	9	<10	290	<0.5	<2	0.60	<0.5	15	38	63	3.71
ZZ63888		0.32	0.002	<0.2	2.67	7	<10	430	<0.5	<2	0.48	<0.5	20	51	36	4.35
ZZ63889		0.28	0.003	<0.2	2.02	8	<10	280	<0.5	<2	0.56	<0.5	16	33	57	3.75
ZZ63890		0.35	0.003	<0.2	1.83	8	<10	250	<0.5	<2	0.35	<0.5	12	40	28	3.04
ZZ63891		0.29	0.005	<0.2	1.60	11	<10	240	0.5	<2	0.77	<0.5	11	28	42	3.14
ZZ63892		0.35	0.003	<0.2	1.70	11	<10	250	<0.5	<2	0.88	<0.5	12	46	41	2.88
ZZ63893		0.40	0.006	<0.2	1.33	9	<10	300	<0.5	<2	0.83	<0.5	10	33	19	2.29
ZZ63894		0.26	0.003	<0.2	1.57	6	<10	330	<0.5	<2	0.56	<0.5	6	36	15	2.28
ZZ63895		0.36	0.004	<0.2	1.69	9	<10	400	0.5	<2	0.59	<0.5	9	52	19	2.48
ZZ63896		0.31	0.003	<0.2	1.95	6	<10	230	0.5	<2	0.68	<0.5	10	86	27	2.71
ZZ63897		0.31	0.003	<0.2	1.94	7	<10	130	0.5	<2	0.49	<0.5	18	151	34	2.60
ZZ63898		0.32	0.003	<0.2	1.66	14	<10	190	<0.5	2	0.21	<0.5	11	56	69	2.38
ZZ63899		0.21	0.002	<0.2	1.37	8	<10	210	<0.5	<2	0.44	<0.5	11	57	14	2.30
ZZ63900		0.41	0.004	<0.2	1.39	6	<10	130	0.7	<2	0.47	<0.5	11	27	38	3.11
ZZ63901		0.25	0.002	<0.2	1.29	6	<10	180	0.6	<2	0.26	<0.5	8	29	15	2.37
ZZ63902		0.32	0.003	<0.2	1.46	9	<10	250	0.5	<2	0.22	<0.5	9	30	19	2.53
ZZ63931		0.22	0.003	<0.2	0.75	6	<10	90	<0.5	<2	0.13	<0.5	3	29	7	1.30
ZZ63932		0.21	0.003	<0.2	2.26	12	<10	240	<0.5	<2	0.21	<0.5	10	55	19	3.08
ZZ63933		0.21	0.004	<0.2	2.29	9	<10	190	<0.5	<2	0.34	<0.5	10	37	68	4.57
ZZ63934		0.22	0.004	<0.2	2.03	8	<10	370	<0.5	<2	0.57	<0.5	12	35	31	2.89
ZZ63935		0.31	0.004	<0.2	1.63	8	<10	400	0.5	<2	0.69	<0.5	11	37	36	2.93
ZZ63936		0.23	0.004	<0.2	1.80	6	<10	390	0.5	<2	0.77	<0.5	12	34	39	3.46
ZZ63937		0.37	0.006	<0.2	1.73	7	<10	350	0.5	<2	0.57	<0.5	12	32	32	3.43
ZZ63938		0.26	0.002	<0.2	1.88	5	<10	260	<0.5	<2	0.42	<0.5	13	34	48	3.29
ZZ63939		0.18	0.003	0.3	1.38	<2	<10	360	<0.5	<2	0.83	<0.5	9	28	61	2.13
ZZ63940		0.27	0.006	<0.2	1.31	4	<10	230	<0.5	<2	0.38	<0.5	8	27	31	2.14
ZZ63941		0.31	0.003	<0.2	1.59	5	<10	240	<0.5	<2	0.27	<0.5	11	37	31	2.49
ZZ63942		0.22	0.002	<0.2	1.62	4	<10	250	<0.5	<2	0.22	<0.5	11	30	25	2.79
ZZ63943		0.28	0.002	<0.2	1.72	2	<10	310	<0.5	<2	0.34	<0.5	12	31	31	2.65
ZZ63944		0.26	0.002	<0.2	1.87	6	<10	270	<0.5	<2	0.32	<0.5	10	33	31	2.61
ZZ63945		0.28	0.002	<0.2	1.54	8	<10	300	<0.5	<2	0.25	<0.5	9	32	20	2.57
ZZ63946		0.29	0.006	<0.2	1.39	6	<10	260	<0.5	<2	0.33	<0.5	9	27	29	2.30
ZZ63751		0.25	0.004	0.7	2.43	4	<10	470	<0.5	<2	0.52	<0.5	7	30	86	2.81
ZZ63752		0.47	0.002	<0.2	2.09	4	<10	270	<0.5	<2	0.33	<0.5	10	27	28	3.17



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Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
ZZ63881		<10	<1	0.05	20	0.71	320	<1	0.03	30	600	7	0.02	<2	4	32
ZZ63882		<10	<1	0.04	10	0.56	220	<1	0.02	22	450	6	0.02	<2	3	25
ZZ63883		<10	<1	0.04	20	0.54	361	<1	0.03	25	650	7	0.03	<2	4	42
ZZ63884		<10	<1	0.05	10	0.47	281	<1	0.02	19	540	6	0.02	<2	3	34
ZZ63885		<10	<1	0.11	10	1.31	500	1	0.03	31	570	4	0.04	<2	5	67
ZZ63886		10	<1	0.38	10	0.99	430	1	0.02	26	200	5	0.03	<2	10	41
ZZ63887		10	<1	0.25	10	1.16	488	<1	0.02	26	650	4	0.02	<2	11	26
ZZ63888		10	<1	0.85	10	1.68	779	<1	0.02	29	640	5	0.02	3	7	23
ZZ63889		10	<1	0.24	10	0.99	554	<1	0.02	18	400	6	0.02	<2	9	27
ZZ63890		10	<1	0.13	10	0.59	446	<1	0.02	21	150	7	0.01	<2	7	22
ZZ63891		<10	<1	0.22	10	0.64	805	3	0.02	23	430	8	0.02	<2	7	24
ZZ63892		<10	<1	0.07	10	0.74	411	<1	0.03	30	420	7	0.02	<2	6	31
ZZ63893		<10	<1	0.04	10	0.53	381	<1	0.02	25	620	5	0.03	<2	4	35
ZZ63894		<10	<1	0.06	20	0.50	192	<1	0.02	20	360	7	0.02	<2	4	30
ZZ63895		<10	<1	0.05	30	0.63	386	<1	0.02	32	470	8	0.01	<2	5	31
ZZ63896		10	<1	0.04	10	1.06	384	<1	0.02	48	460	6	0.01	<2	5	26
ZZ63897		10	<1	0.03	10	1.63	389	<1	0.02	165	210	7	0.02	3	5	22
ZZ63898		10	<1	0.03	10	0.67	216	<1	0.01	49	170	7	0.03	22	3	16
ZZ63899		<10	<1	0.10	10	0.62	480	<1	0.02	60	270	6	0.02	<2	3	25
ZZ63900		<10	<1	0.07	40	0.62	302	<1	0.01	33	560	12	0.01	<2	3	20
ZZ63901		<10	<1	0.15	20	0.40	278	1	0.01	18	220	11	0.01	<2	3	18
ZZ63902		<10	<1	0.12	20	0.45	244	<1	0.01	23	410	7	0.01	<2	4	19
ZZ63931		10	<1	0.04	10	0.23	119	1	0.01	16	300	7	0.02	<2	2	11
ZZ63932		10	<1	0.04	10	0.62	207	1	0.01	34	400	8	<0.01	<2	4	17
ZZ63933		10	<1	0.08	10	0.98	458	3	0.02	15	1630	10	0.01	<2	9	18
ZZ63934		10	<1	0.04	10	0.69	376	<1	0.02	21	410	5	<0.01	<2	6	31
ZZ63935		<10	<1	0.08	10	0.62	496	<1	0.03	23	650	6	<0.01	<2	8	32
ZZ63936		10	<1	0.08	10	0.72	572	1	0.02	20	370	6	0.01	<2	9	26
ZZ63937		<10	<1	0.07	10	0.66	330	<1	0.02	21	600	5	<0.01	<2	9	26
ZZ63938		10	<1	0.08	<10	0.94	410	<1	0.02	19	450	3	<0.01	<2	4	29
ZZ63939		<10	<1	0.09	10	0.58	531	<1	0.03	23	470	5	0.02	<2	4	37
ZZ63940		<10	<1	0.07	10	0.58	287	<1	0.02	15	520	3	<0.01	<2	3	25
ZZ63941		<10	<1	0.10	10	0.68	280	<1	0.02	20	510	4	<0.01	<2	3	19
ZZ63942		<10	<1	0.11	10	0.63	363	1	0.02	16	320	5	<0.01	<2	4	18
ZZ63943		10	<1	0.22	<10	0.82	348	<1	0.01	18	560	4	<0.01	<2	4	24
ZZ63944		10	<1	0.32	10	0.92	333	<1	0.02	15	520	4	<0.01	<2	3	23
ZZ63945		<10	<1	0.09	10	0.52	247	1	0.01	17	230	7	<0.01	<2	3	22
ZZ63946		<10	<1	0.04	10	0.56	264	<1	0.02	16	470	5	<0.01	<2	4	26
ZZ63751		10	<1	0.20	70	0.73	272	1	0.02	15	880	16	0.06	<2	6	46
ZZ63752		10	<1	0.40	30	0.93	401	<1	0.02	12	630	7	0.01	<2	5	27



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CERTIFICATE OF ANALYSIS WH12209424

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ63881		<20	0.07	<10	<10	51	<10	50
ZZ63882		<20	0.07	<10	<10	52	<10	45
ZZ63883		<20	0.07	<10	<10	53	<10	49
ZZ63884		<20	0.07	<10	<10	51	<10	39
ZZ63885		<20	0.09	<10	<10	70	<10	53
ZZ63886		<20	0.08	<10	<10	91	<10	49
ZZ63887		<20	0.06	<10	<10	78	<10	56
ZZ63888		<20	0.17	<10	<10	108	<10	60
ZZ63889		<20	0.10	<10	<10	98	<10	54
ZZ63890		<20	0.09	<10	<10	71	<10	43
ZZ63891		<20	0.09	<10	<10	62	<10	55
ZZ63892		<20	0.09	<10	<10	65	<10	49
ZZ63893		<20	0.07	<10	<10	51	<10	47
ZZ63894		<20	0.07	<10	<10	48	<10	44
ZZ63895		<20	0.08	<10	<10	53	<10	44
ZZ63896		<20	0.10	<10	<10	60	<10	46
ZZ63897		<20	0.10	<10	<10	58	<10	37
ZZ63898		<20	0.07	<10	<10	58	<10	38
ZZ63899		<20	0.07	<10	<10	51	<10	36
ZZ63900		20	0.03	<10	<10	35	<10	59
ZZ63901		<20	0.08	<10	<10	46	<10	41
ZZ63902		<20	0.08	<10	<10	53	<10	40
ZZ63931		<20	0.07	<10	<10	46	<10	17
ZZ63932		<20	0.06	<10	<10	68	<10	46
ZZ63933		<20	0.04	<10	<10	96	<10	74
ZZ63934		<20	0.05	<10	<10	65	<10	60
ZZ63935		<20	0.08	<10	<10	66	<10	54
ZZ63936		<20	0.07	<10	<10	80	<10	64
ZZ63937		<20	0.07	<10	<10	73	<10	56
ZZ63938		<20	0.07	<10	<10	74	<10	54
ZZ63939		<20	0.07	<10	<10	46	<10	36
ZZ63940		<20	0.08	<10	<10	49	<10	35
ZZ63941		<20	0.07	<10	<10	59	<10	46
ZZ63942		<20	0.07	<10	<10	65	<10	50
ZZ63943		<20	0.10	<10	<10	61	<10	59
ZZ63944		<20	0.12	<10	<10	67	<10	69
ZZ63945		<20	0.08	<10	<10	63	<10	46
ZZ63946		<20	0.08	<10	<10	54	<10	40
ZZ63751		<20	0.10	<10	<10	54	<10	111
ZZ63752		<20	0.17	<10	<10	67	<10	69



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ63753		0.39	0.003	<0.2	1.78	5	<10	160	<0.5	<2	0.26	<0.5	9	24	19	3.01
ZZ63754		0.38	0.003	<0.2	1.60	4	<10	200	<0.5	<2	0.35	<0.5	8	24	17	2.30
ZZ63755		0.37	0.005	<0.2	1.76	4	<10	180	<0.5	<2	0.43	<0.5	11	34	26	2.64
ZZ63756		0.27	0.003	<0.2	2.00	5	<10	180	<0.5	<2	0.39	<0.5	9	32	25	2.95
ZZ63757		0.33	0.003	<0.2	2.12	6	<10	200	<0.5	<2	0.37	<0.5	10	30	18	3.03
ZZ63758		0.26	0.002	<0.2	1.99	3	<10	190	<0.5	<2	0.29	<0.5	9	26	21	3.06
ZZ63759		0.32	0.005	<0.2	1.75	4	<10	250	<0.5	<2	0.32	<0.5	8	26	26	2.66
ZZ63760		0.30	0.003	<0.2	2.32	3	<10	460	<0.5	<2	0.57	<0.5	20	53	52	3.96
ZZ63761		0.32	0.001	<0.2	1.90	4	<10	430	<0.5	<2	0.50	<0.5	17	33	47	2.90
ZZ63762		0.29	0.002	<0.2	2.28	5	<10	370	<0.5	<2	0.36	<0.5	10	27	21	3.52
ZZ63763		0.34	0.004	0.2	2.42	11	<10	250	0.5	<2	0.14	<0.5	11	38	22	3.24
ZZ63764		0.34	0.002	<0.2	1.98	7	<10	260	<0.5	<2	0.20	<0.5	11	29	20	3.27
ZZ63765		0.18	0.002	0.4	1.47	8	<10	210	<0.5	<2	0.16	<0.5	8	21	21	2.62
ZZ63766		0.28	0.002	0.3	1.89	6	<10	300	<0.5	<2	0.25	<0.5	8	23	14	2.90
ZZ63767		0.23	0.001	0.4	1.54	6	<10	500	<0.5	<2	0.17	<0.5	10	20	32	2.41
ZZ63768		0.29	0.002	<0.2	2.07	5	<10	660	<0.5	<2	0.59	<0.5	14	13	69	3.56
ZZ63769		0.33	0.001	<0.2	2.31	3	<10	350	<0.5	<2	0.30	<0.5	11	17	26	3.70
ZZ63770		0.36	0.002	<0.2	1.68	9	<10	220	<0.5	<2	0.24	<0.5	8	32	15	2.65
ZZ63771		0.28	0.007	<0.2	1.66	5	<10	270	<0.5	<2	0.35	<0.5	10	36	19	2.69
ZZ63772		0.24	0.003	<0.2	2.22	5	<10	380	<0.5	<2	0.35	<0.5	17	24	19	3.77
ZZ63773		0.27	0.001	<0.2	2.60	8	<10	270	0.5	<2	0.22	<0.5	12	21	16	4.37
ZZ63774		0.26	0.004	<0.2	1.45	7	<10	270	<0.5	<2	0.30	<0.5	8	25	12	2.55
ZZ63775		0.29	0.002	<0.2	2.43	6	<10	670	<0.5	<2	0.30	<0.5	14	18	21	3.83
ZZ63776		0.35	0.003	0.2	1.67	5	<10	490	<0.5	<2	0.32	<0.5	8	22	23	2.60
ZZ63777		0.30	0.003	0.4	1.56	5	<10	540	<0.5	<2	0.25	<0.5	13	25	30	2.75
ZZ63778		0.33	0.002	0.4	1.59	10	<10	210	<0.5	<2	0.18	<0.5	7	23	11	3.00
ZZ63779		0.33	0.005	0.5	2.52	6	<10	330	0.5	<2	0.24	<0.5	14	30	32	3.88
ZZ63780		0.20	0.004	0.7	1.43	6	<10	250	<0.5	<2	0.16	<0.5	6	18	15	2.23
ZZ63781		0.28	0.003	0.3	1.53	5	<10	320	<0.5	<2	0.21	<0.5	7	20	14	2.40
ZZ63782		0.28	0.003	<0.2	1.41	11	<10	300	0.5	<2	0.70	<0.5	10	30	26	2.64
ZZ63783		0.29	0.002	<0.2	1.58	9	<10	310	0.7	<2	0.72	<0.5	10	38	30	2.79
ZZ63784		0.30	0.005	<0.2	1.59	9	<10	330	0.6	<2	0.45	<0.5	10	36	27	2.63
ZZ63785		0.35	0.003	<0.2	1.91	7	<10	250	0.6	<2	0.31	<0.5	13	44	19	3.00
ZZ63786		0.27	0.005	<0.2	1.67	10	<10	240	0.6	<2	0.31	<0.5	10	35	18	2.63
ZZ63787		0.33	0.006	<0.2	1.63	10	<10	210	0.7	<2	0.47	<0.5	11	34	27	2.78
ZZ63788		0.26	0.006	<0.2	1.52	9	<10	160	<0.5	<2	0.39	<0.5	14	70	19	2.62
ZZ63789		0.26	0.003	<0.2	1.70	7	<10	230	0.5	<2	0.61	<0.5	11	77	25	2.39
ZZ63790		0.26	0.003	<0.2	1.49	6	<10	280	<0.5	<2	0.73	<0.5	10	39	21	2.30
ZZ63791		0.30	0.004	<0.2	1.32	9	<10	300	<0.5	<2	0.95	<0.5	9	28	24	2.24
ZZ63792		0.29	0.002	<0.2	1.35	10	<10	250	<0.5	<2	0.62	<0.5	9	28	19	2.25



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Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
ZZ63753		10	<1	0.23	20	0.76	319	1	0.02	11	480	5	<0.01	<2	4	18
ZZ63754		10	<1	0.22	10	0.72	348	<1	0.02	9	250	6	<0.01	<2	3	24
ZZ63755		10	<1	0.23	20	0.93	426	1	0.02	14	410	6	<0.01	<2	3	27
ZZ63756		10	<1	0.22	20	0.81	367	1	0.02	13	390	6	0.01	<2	4	27
ZZ63757		10	<1	0.27	20	0.86	377	1	0.02	13	420	6	0.01	<2	4	26
ZZ63758		10	<1	0.38	20	0.91	439	1	0.02	9	470	7	0.01	<2	4	22
ZZ63759		10	<1	0.21	20	0.71	358	1	0.02	13	410	8	<0.01	<2	4	25
ZZ63760		10	<1	0.93	<10	1.68	493	<1	0.02	29	1310	<2	0.01	<2	6	42
ZZ63761		10	<1	0.57	<10	1.31	383	<1	0.02	19	1250	2	0.01	<2	3	36
ZZ63762		10	<1	0.50	10	1.09	566	<1	0.02	14	560	3	0.01	<2	4	37
ZZ63763		10	<1	0.10	10	0.59	305	1	0.01	20	380	9	0.01	<2	3	16
ZZ63764		10	<1	0.26	10	0.80	499	<1	0.01	12	620	6	0.01	<2	3	19
ZZ63765		10	<1	0.14	10	0.41	489	1	0.02	9	580	14	0.01	<2	2	16
ZZ63766		10	<1	0.19	10	0.70	314	1	0.01	10	330	10	<0.01	<2	3	20
ZZ63767		10	1	0.23	10	0.50	1560	1	0.02	11	410	38	0.01	<2	3	18
ZZ63768		10	<1	0.72	<10	1.23	285	<1	0.03	9	1500	14	<0.01	<2	4	31
ZZ63769		10	<1	0.86	10	1.38	669	<1	0.01	8	530	6	0.01	<2	3	29
ZZ63770		10	<1	0.15	10	0.60	336	1	0.01	16	260	9	<0.01	<2	3	20
ZZ63771		<10	<1	0.11	10	0.81	409	<1	0.02	18	360	5	<0.01	<2	4	28
ZZ63772		10	<1	0.66	10	1.16	673	4	0.01	10	830	10	0.01	<2	4	22
ZZ63773		10	<1	1.42	<10	1.60	685	<1	0.01	6	400	6	0.01	<2	7	18
ZZ63774		<10	1	0.16	20	0.55	321	<1	0.01	12	410	10	0.02	<2	3	26
ZZ63775		10	1	1.11	<10	1.34	952	<1	0.01	7	650	6	0.01	<2	2	22
ZZ63776		<10	<1	0.20	10	0.66	295	1	0.02	12	440	12	<0.01	<2	3	25
ZZ63777		10	<1	0.27	10	0.58	749	1	0.01	11	260	75	<0.01	<2	3	21
ZZ63778		10	<1	0.26	10	0.55	429	1	0.01	10	710	12	<0.01	<2	2	15
ZZ63779		10	<1	0.30	10	0.93	462	<1	0.02	15	470	13	<0.01	<2	3	18
ZZ63780		10	<1	0.12	10	0.44	228	1	0.01	7	310	13	0.01	<2	2	15
ZZ63781		10	<1	0.12	10	0.48	265	<1	0.02	8	350	10	0.01	<2	2	18
ZZ63782		<10	<1	0.09	20	0.52	373	<1	0.03	21	750	7	0.01	<2	5	40
ZZ63783		<10	<1	0.07	20	0.58	363	1	0.02	32	450	10	0.01	<2	5	41
ZZ63784		<10	<1	0.05	20	0.60	338	<1	0.03	35	360	9	<0.01	<2	5	31
ZZ63785		10	<1	0.34	10	0.80	247	1	0.02	30	400	8	<0.01	<2	4	20
ZZ63786		<10	<1	0.06	30	0.53	245	1	0.02	23	210	10	<0.01	<2	4	23
ZZ63787		<10	<1	0.04	40	0.62	284	1	0.02	30	390	10	<0.01	<2	5	29
ZZ63788		10	<1	0.05	20	0.96	352	1	0.02	85	450	7	<0.01	<2	4	21
ZZ63789		<10	<1	0.04	30	0.88	264	<1	0.03	73	330	6	0.01	<2	4	32
ZZ63790		<10	<1	0.04	10	0.57	361	<1	0.03	24	560	6	0.02	<2	4	35
ZZ63791		<10	<1	0.04	10	0.50	683	1	0.03	22	770	6	0.03	<2	3	53
ZZ63792		<10	<1	0.05	10	0.50	284	1	0.03	18	540	6	0.01	<2	3	36



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ63753		<20	0.13	<10	<10	61	<10	59
ZZ63754		<20	0.15	<10	<10	54	<10	49
ZZ63755		<20	0.15	<10	<10	66	<10	54
ZZ63756		<20	0.15	<10	<10	67	<10	63
ZZ63757		<20	0.16	<10	<10	69	<10	60
ZZ63758		<20	0.18	<10	<10	73	<10	65
ZZ63759		<20	0.12	<10	<10	59	<10	60
ZZ63760		<20	0.19	<10	<10	106	<10	79
ZZ63761		<20	0.17	<10	<10	75	<10	54
ZZ63762		<20	0.19	<10	<10	79	<10	88
ZZ63763		<20	0.11	<10	<10	72	<10	62
ZZ63764		<20	0.14	<10	<10	89	<10	91
ZZ63765		<20	0.12	<10	<10	64	<10	64
ZZ63766		<20	0.15	<10	<10	64	<10	63
ZZ63767		<20	0.12	<10	<10	54	<10	97
ZZ63768		<20	0.22	<10	<10	99	<10	78
ZZ63769		<20	0.20	<10	<10	80	<10	107
ZZ63770		<20	0.09	<10	<10	60	<10	55
ZZ63771		<20	0.12	<10	<10	61	<10	61
ZZ63772		<20	0.20	<10	<10	95	<10	75
ZZ63773		<20	0.29	<10	<10	95	<10	97
ZZ63774		<20	0.10	<10	<10	54	<10	49
ZZ63775		<20	0.24	<10	<10	79	<10	102
ZZ63776		<20	0.12	<10	<10	59	<10	66
ZZ63777		<20	0.13	<10	<10	62	<10	131
ZZ63778		<20	0.16	<10	<10	72	<10	63
ZZ63779		<20	0.18	<10	<10	73	<10	103
ZZ63780		<20	0.13	<10	<10	58	<10	54
ZZ63781		<20	0.11	<10	<10	56	<10	57
ZZ63782		<20	0.07	<10	<10	50	<10	54
ZZ63783		<20	0.06	<10	<10	52	<10	51
ZZ63784		<20	0.07	<10	<10	53	<10	47
ZZ63785		<20	0.10	<10	<10	53	<10	73
ZZ63786		<20	0.06	<10	<10	54	<10	47
ZZ63787		<20	0.06	<10	<10	52	<10	49
ZZ63788		<20	0.06	<10	<10	48	<10	46
ZZ63789		<20	0.08	<10	<10	51	<10	46
ZZ63790		<20	0.07	<10	<10	51	<10	48
ZZ63791		<20	0.07	<10	<10	51	<10	53
ZZ63792		<20	0.07	<10	<10	53	<10	47



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CERTIFICATE OF ANALYSIS WH12209424

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %
		0.02	0.001	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
ZZ63793		0.31	0.004	<0.2	2.28	6	<10	320	<0.5	<2	0.57	<0.5	14	47	38	3.32
ZZ63794		0.25	0.002	<0.2	2.45	4	<10	370	<0.5	<2	0.70	<0.5	18	35	51	3.88
ZZ63795		0.28	0.006	<0.2	1.45	12	<10	210	0.5	<2	1.02	<0.5	12	33	46	2.88
ZZ63796		0.32	0.003	<0.2	1.76	8	<10	220	<0.5	<2	0.62	<0.5	11	28	41	3.32
ZZ63797		0.33	0.001	<0.2	2.77	4	<10	430	<0.5	<2	0.50	<0.5	25	14	71	5.08
ZZ63798		0.26	0.002	<0.2	1.55	7	<10	240	<0.5	<2	0.24	<0.5	11	31	22	2.69
ZZ63799		0.27	0.003	<0.2	1.60	9	<10	270	<0.5	<2	0.42	<0.5	12	51	22	2.60
ZZ63800		0.20	0.002	<0.2	1.57	4	<10	370	<0.5	<2	0.75	<0.5	12	29	46	2.65
ZZ47700		0.30	0.002	<0.2	0.69	4	<10	440	0.8	<2	1.70	<0.5	13	8	29	3.34
ZZ47701		0.39	0.002	0.7	1.05	3	<10	190	0.6	4	3.25	3.7	7	6	16	3.01
ZZ47702		0.26	0.004	<0.2	1.36	3	<10	270	1.2	<2	0.51	<0.5	12	10	20	4.83
ZZ47703		0.47	0.015	1.6	2.65	<2	<10	670	0.8	<2	0.80	5.6	17	11	579	3.96
ZZ47704		0.35	0.014	0.6	2.37	4	<10	390	0.5	4	0.16	1.7	2	5	579	6.20
ZZ47705		0.22	0.002	<0.2	1.21	7	<10	170	<0.5	<2	0.78	<0.5	10	27	17	2.33
ZZ47706		0.24	0.015	<0.2	1.36	6	<10	240	<0.5	<2	0.80	<0.5	11	27	21	2.25
ZZ47707		0.12	0.003	<0.2	1.50	4	<10	180	0.5	<2	0.27	0.5	10	35	20	2.41
ZZ47708		0.21	0.002	<0.2	1.72	11	<10	220	0.5	<2	0.42	<0.5	12	37	19	2.82
ZZ47709		0.26	0.003	0.3	1.54	11	<10	250	0.5	<2	0.26	<0.5	11	31	21	2.55
ZZ47710		0.18	0.003	0.9	1.62	3	<10	520	<0.5	<2	0.28	1.7	9	25	17	2.08
ZZ47711		0.19	0.008	<0.2	1.72	5	<10	380	<0.5	2	0.37	<0.5	11	30	24	2.96
ZZ47712		0.22	0.003	0.4	1.67	6	<10	330	<0.5	<2	0.29	<0.5	11	23	17	3.06
ZZ47713		0.20	0.002	<0.2	1.54	4	<10	250	<0.5	<2	0.33	<0.5	10	23	12	2.60
ZZ47714		0.21	0.001	<0.2	1.80	4	<10	270	0.5	<2	0.43	<0.5	10	43	11	2.56
ZZ47715		0.28	0.001	0.7	1.52	8	<10	360	<0.5	<2	0.27	1.2	11	24	18	2.61
ZZ47716		0.18	0.002	0.2	1.56	7	<10	240	<0.5	<2	0.27	<0.5	9	25	19	2.57
ZZ47717		0.23	0.008	<0.2	1.68	7	<10	210	<0.5	<2	0.31	<0.5	8	28	17	2.86
ZZ47718		0.19	0.005	<0.2	1.36	7	<10	230	<0.5	<2	0.41	<0.5	9	25	23	2.47
ZZ47719		0.22	0.005	<0.2	1.29	7	<10	250	<0.5	<2	0.42	<0.5	9	24	22	2.39
ZZ47720		0.20	0.005	<0.2	1.24	6	<10	230	<0.5	<2	0.54	<0.5	8	20	21	2.13



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 VANCOUVER BC V6B 1L8

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 Account: F

Project: Touleary

CERTIFICATE OF ANALYSIS WH12209424

Sample Description	Method Analyte Units LOR	ME- ICP41 Ga ppm 10	ME- ICP41 Hg ppm 1	ME- ICP41 K % 0.01	ME- ICP41 La ppm 10	ME- ICP41 Mg % 0.01	ME- ICP41 Mn ppm 5	ME- ICP41 Mo ppm 1	ME- ICP41 Na % 0.01	ME- ICP41 Ni ppm 1	ME- ICP41 P ppm 10	ME- ICP41 Pb ppm 2	ME- ICP41 S % 0.01	ME- ICP41 Sb ppm 2	ME- ICP41 Sc ppm 1	ME- ICP41 Sr ppm 1
ZZ63793		10	<1	0.08	10	0.86	491	<1	0.03	23	250	4	<0.01	<2	6	41
ZZ63794		10	<1	0.17	10	1.15	688	1	0.03	20	710	3	0.01	<2	6	41
ZZ63795		<10	<1	0.14	10	0.52	339	1	0.02	26	720	7	<0.01	<2	7	35
ZZ63796		10	<1	0.17	10	0.70	258	1	0.03	17	1470	4	<0.01	<2	8	32
ZZ63797		10	<1	1.15	10	1.82	811	<1	0.02	11	1000	3	<0.01	<2	16	15
ZZ63798		<10	<1	0.23	10	0.63	286	<1	0.02	17	150	5	<0.01	<2	5	18
ZZ63799		<10	<1	0.11	10	0.77	691	<1	0.02	26	220	8	<0.01	<2	6	23
ZZ63800		<10	<1	0.19	10	0.75	613	<1	0.02	17	330	4	0.01	<2	5	29
ZZ47700		<10	1	0.20	30	0.21	1410	2	0.01	9	710	53	<0.01	<2	12	20
ZZ47701		<10	1	0.11	50	0.41	1855	<1	0.01	2	620	104	<0.01	<2	6	35
ZZ47702		10	<1	0.11	110	0.54	1705	1	0.01	3	1130	27	<0.01	2	12	23
ZZ47703		10	<1	0.65	10	1.94	1260	2	0.02	10	1140	331	<0.01	<2	4	57
ZZ47704		10	<1	0.71	10	1.48	407	19	0.03	1	310	471	0.10	<2	2	17
ZZ47705		<10	<1	0.04	10	0.44	420	1	0.02	19	650	9	0.02	<2	3	36
ZZ47706		<10	<1	0.04	10	0.47	503	1	0.03	21	650	7	0.02	<2	4	44
ZZ47707		10	<1	0.12	10	0.40	325	2	0.02	20	240	20	0.03	<2	3	24
ZZ47708		10	<1	0.11	10	0.45	404	1	0.01	25	310	9	0.03	<2	5	28
ZZ47709		<10	<1	0.09	10	0.38	358	1	0.01	25	280	20	0.02	<2	5	19
ZZ47710		10	1	0.10	10	0.59	659	1	0.02	12	310	160	0.02	<2	2	24
ZZ47711		10	<1	0.34	10	0.83	721	1	0.02	13	390	52	0.03	<2	3	27
ZZ47712		10	<1	0.49	<10	0.71	617	1	0.02	12	360	15	0.03	<2	2	23
ZZ47713		10	<1	0.26	10	0.59	567	<1	0.01	13	550	8	0.02	<2	3	27
ZZ47714		10	<1	0.08	10	0.72	372	<1	0.01	15	660	9	0.03	<2	3	52
ZZ47715		<10	<1	0.18	10	0.45	1180	1	0.01	15	250	51	0.02	<2	3	22
ZZ47716		<10	<1	0.13	10	0.48	366	1	0.01	13	210	13	0.03	<2	3	22
ZZ47717		10	<1	0.12	10	0.55	264	1	0.01	14	400	13	0.03	<2	3	23
ZZ47718		<10	<1	0.09	10	0.54	338	<1	0.02	14	630	12	0.02	<2	4	27
ZZ47719		<10	<1	0.07	10	0.50	352	<1	0.02	14	720	13	0.02	<2	4	28
ZZ47720		<10	<1	0.08	20	0.44	456	1	0.02	12	700	13	0.05	<2	3	37



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 Account: F

Project: Touleary

CERTIFICATE OF ANALYSIS WH12209424

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Th	Ti	Ti	U	V	W	Zn
		ppm 20	% 0.01	ppm 10	ppm 10	ppm 1	ppm 10	ppm 2
ZZ63793		<20	0.11	<10	<10	77	<10	58
ZZ63794		<20	0.11	<10	<10	84	<10	72
ZZ63795		<20	0.08	<10	<10	65	<10	44
ZZ63796		<20	0.08	<10	<10	75	<10	56
ZZ63797		<20	0.21	<10	<10	163	<10	102
ZZ63798		<20	0.10	<10	<10	67	<10	43
ZZ63799		<20	0.08	<10	<10	60	<10	43
ZZ63800		<20	0.10	<10	<10	66	<10	41
ZZ47700		20	0.01	<10	<10	52	<10	190
ZZ47701		30	0.01	<10	<10	21	<10	828
ZZ47702		50	0.01	<10	<10	44	<10	225
ZZ47703		<20	0.15	<10	<10	73	<10	1610
ZZ47704		30	0.04	<10	<10	7	<10	605
ZZ47705		<20	0.06	<10	<10	44	<10	52
ZZ47706		<20	0.07	<10	<10	50	<10	56
ZZ47707		<20	0.05	<10	<10	55	<10	86
ZZ47708		<20	0.07	<10	<10	60	<10	57
ZZ47709		<20	0.07	<10	<10	55	<10	72
ZZ47710		<20	0.06	<10	<10	44	<10	690
ZZ47711		<20	0.16	<10	<10	56	<10	218
ZZ47712		<20	0.18	<10	<10	60	<10	118
ZZ47713		<20	0.10	<10	<10	54	<10	86
ZZ47714		<20	0.10	<10	<10	52	<10	101
ZZ47715		<20	0.09	<10	<10	54	<10	279
ZZ47716		<20	0.10	<10	<10	53	<10	76
ZZ47717		<20	0.10	<10	<10	58	<10	74
ZZ47718		<20	0.10	<10	<10	51	<10	76
ZZ47719		<20	0.09	<10	<10	49	<10	72
ZZ47720		<20	0.07	<10	<10	44	<10	81

APPENDIX III
STATEMENT OF EXPENDITURES

Statement of Expenditures
Touleary Project
TL 1-632 Mineral Claims
March 21, 2013

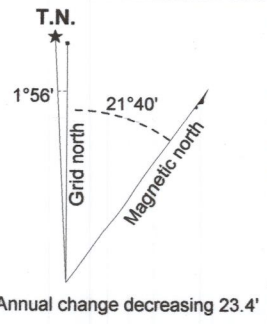
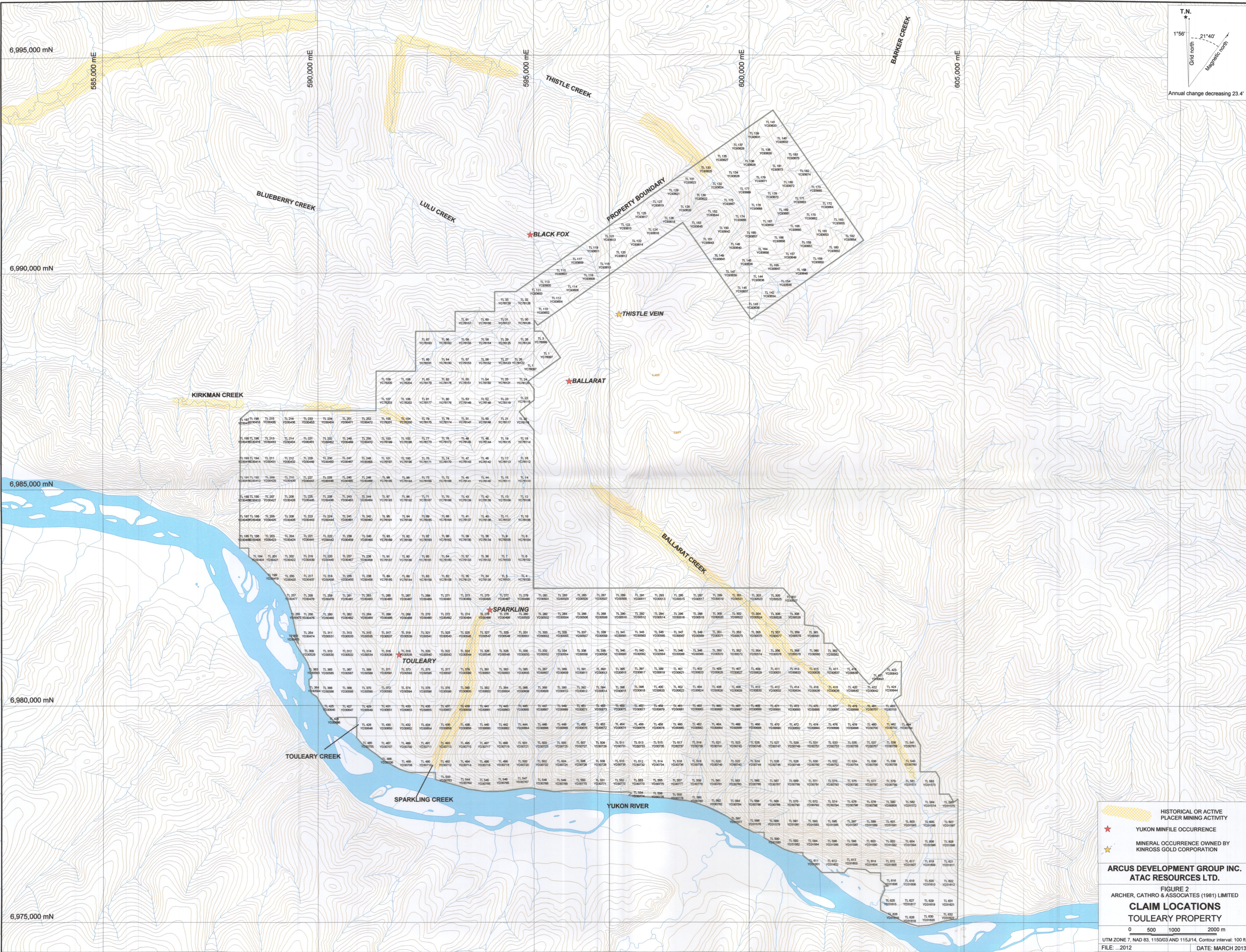
Labour

T. Epp (field assistant) Aug. to Sept. 2012 – 12 days @ \$476/day	\$ 6,397.44
K. Punnett (field assistant) Aug. to Sept. 2012 – 12 days @ \$357/day	4,798.08
K. Grey (field assistant) Aug. to Sept. 2012 – 12 days @ \$340/day	4,569.60
M. Van Loon (field assistant) Aug. to Sept. 2012 – 12 days @ \$340/day	4,569.60
D. Eaton (report preparation) Feb. 2013 – 3 hours @ \$120/hour	403.20
H. Burrell (report preparation) Feb. 2013 – 29 hours @ \$95.63/hour	3,106.06
L. Smith (report preparation) Feb. 2013 – 2 1/2 hours @ \$62/hour	<u>173.60</u>
	24,017.58

Expenses (including management fee)

Field room and board – 48 mandays @ \$185/manday	10,741.25
Condor Consulting Inc.	32,946.98
Kaminak Gold Corporation	3,674.16
Skivik Holding Corporation Ltd.	10,780.00
Fireweed Helicopters	9,733.71
Great River Air	5,987.52
ALS Chemex	10,927.38
Ian J. Talbot	<u>2,016.00</u>
	86,807.00

Total	<u>\$110,824.58</u>
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HISTORICAL OR ACTIVE PLACER MINING ACTIVITY

YUKON MINFILE OCCURRENCE

MINERAL OCCURRENCE OWNED BY KINROSS GOLD CORPORATION

ARCUS DEVELOPMENT GROUP INC. ATAC RESOURCES LTD.

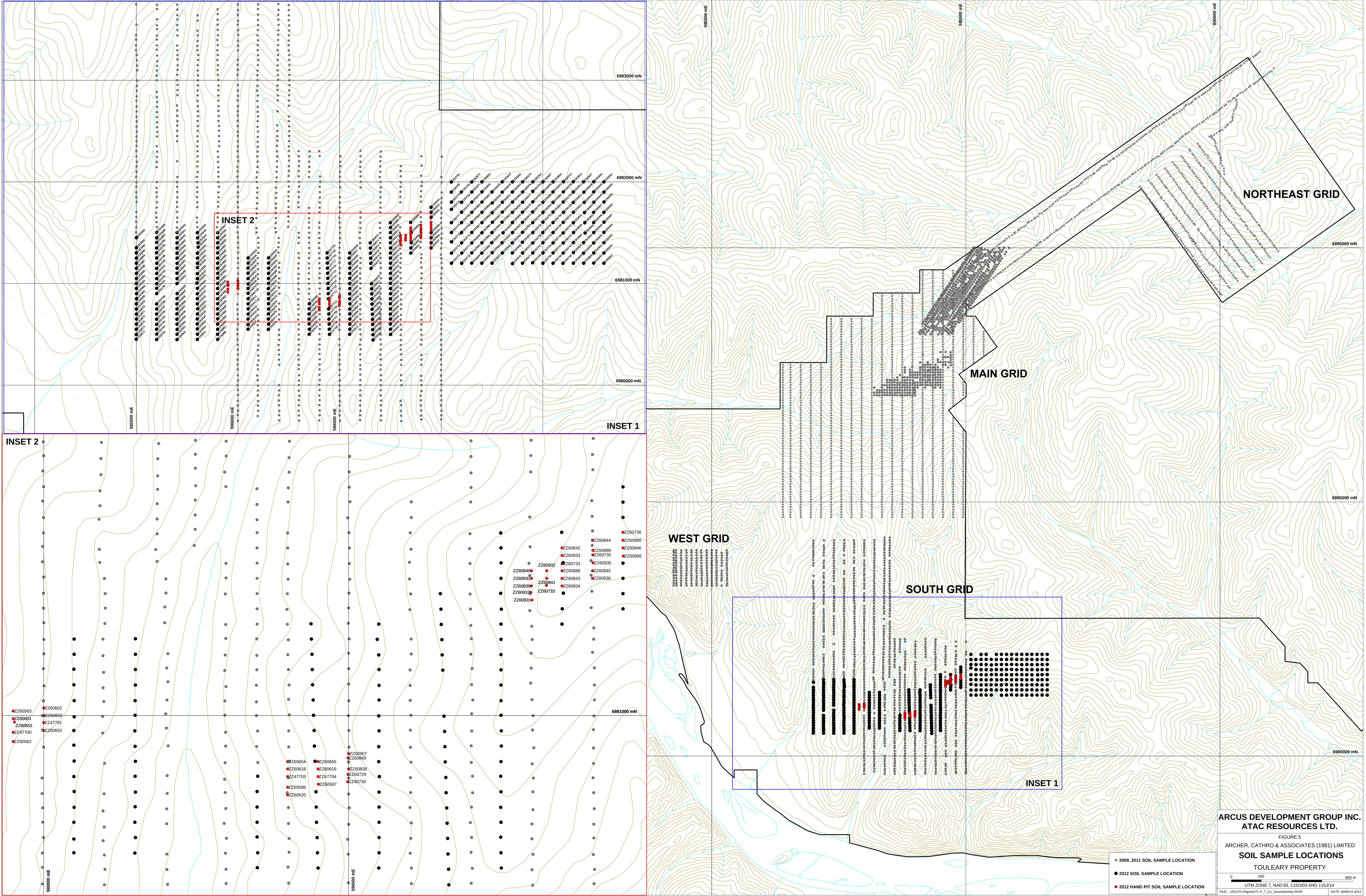
FIGURE 2 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED CLAIM LOCATIONS TOULEARY PROPERTY

0 500 1000 2000 m

UTM ZONE 7, NAD 83, 115003 AND 115314, Contour interval: 100 ft.

FILE: 10012 DATE: MARCH 2013

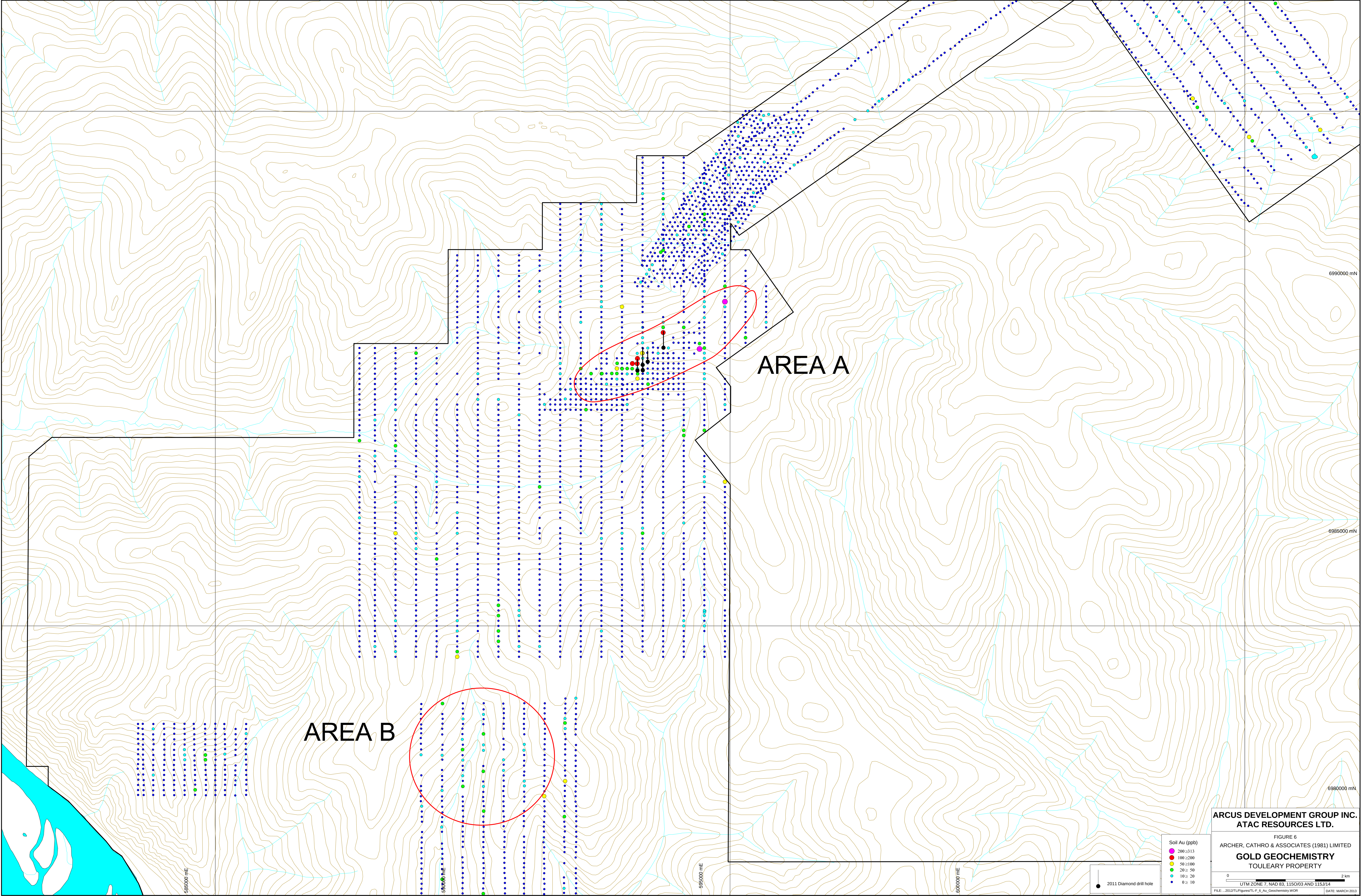
096689



ARCUS DEVELOPMENT GROUP INC.
ATAC RESOURCES LTD.

FIGURE 5
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SOIL SAMPLE LOCATIONS
TOULEARY PROPERTY

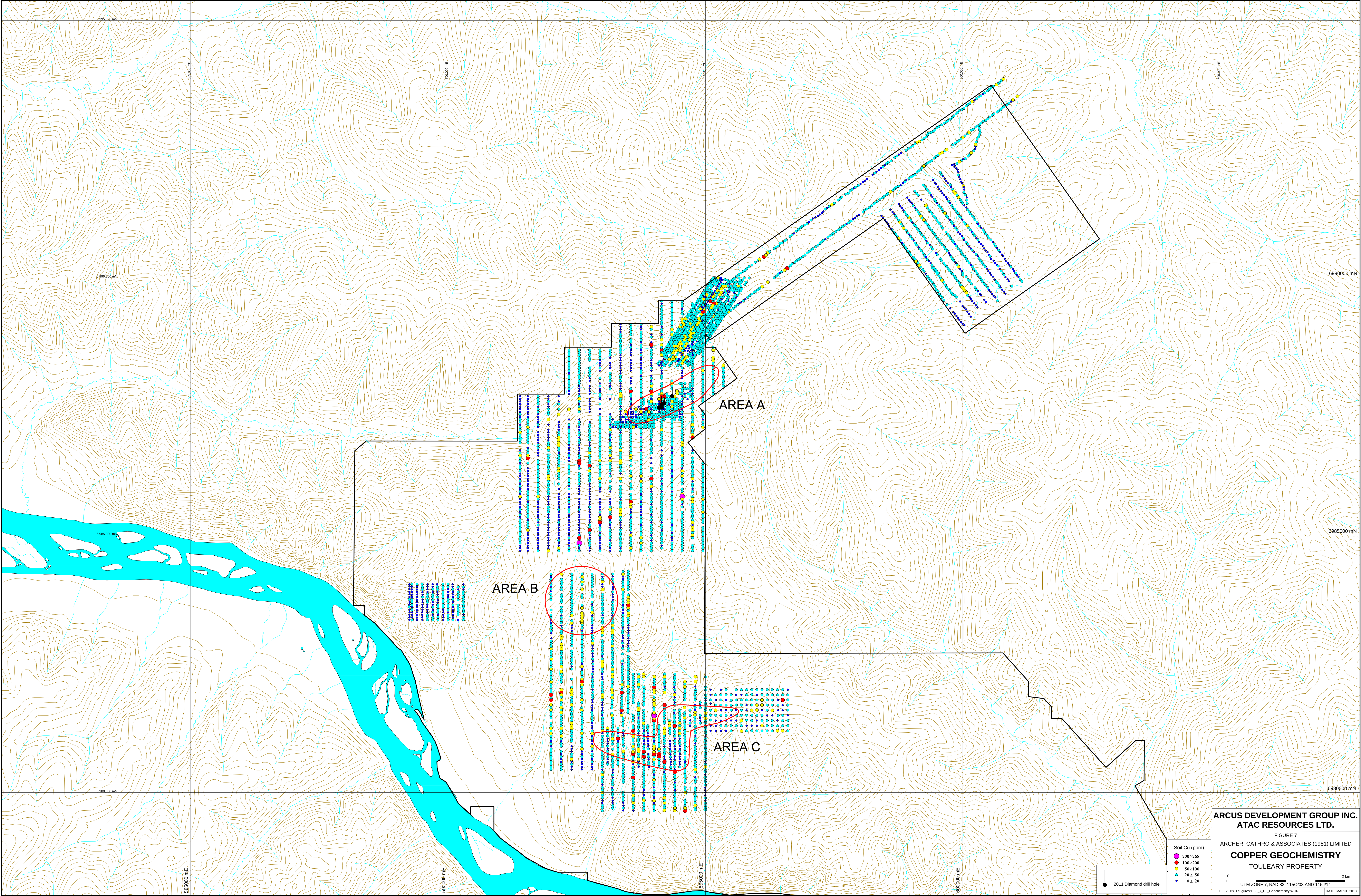
0 200 800 m
UTM ZONE 7, NAD 83, 1150003 AND 115314
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DATE: MARCH 2013



ARCUS DEVELOPMENT GROUP INC.
ATAC RESOURCES LTD.

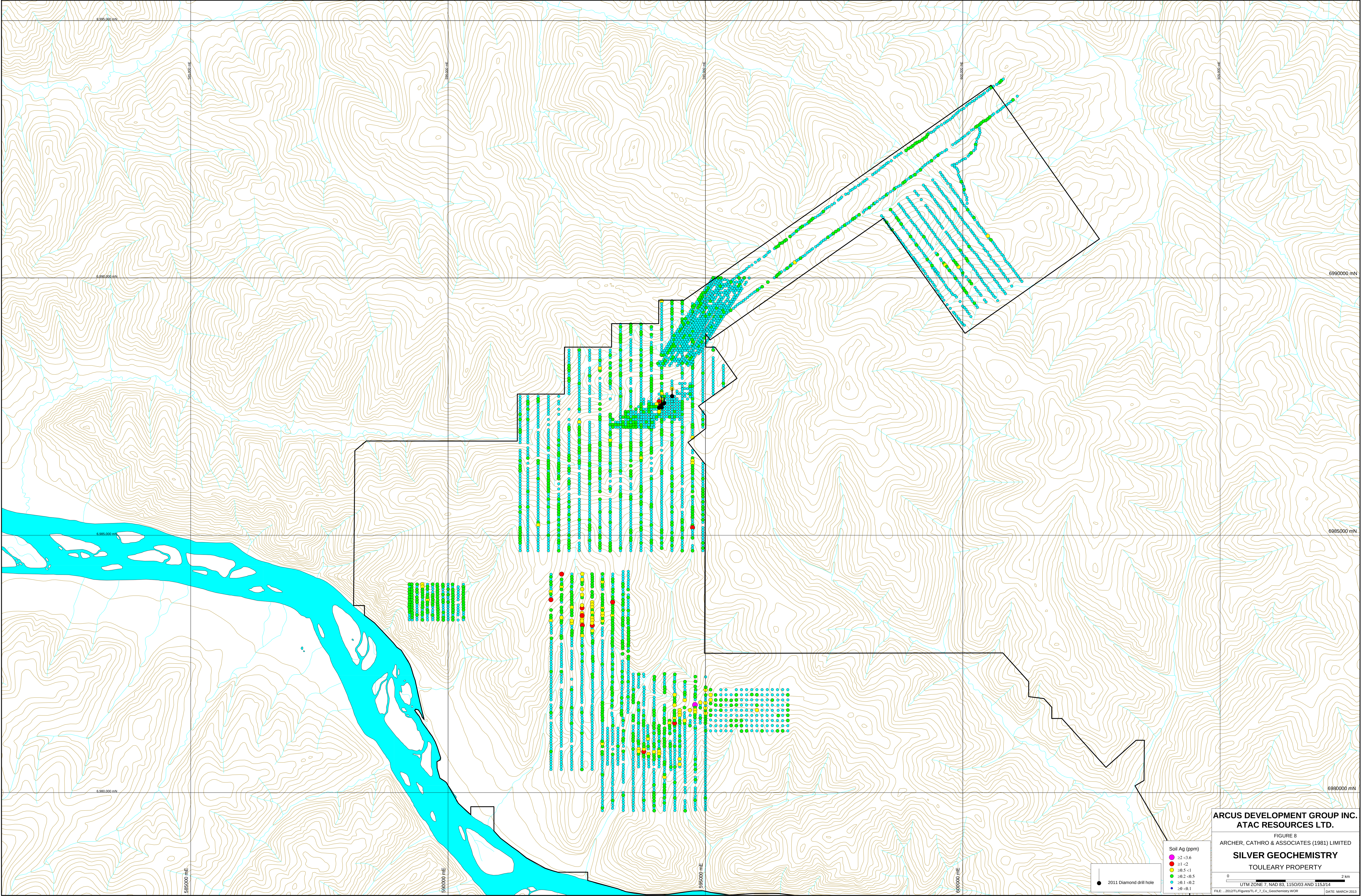
FIGURE 6
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
GOLD GEOCHEMISTRY
TOULEARY PROPERTY

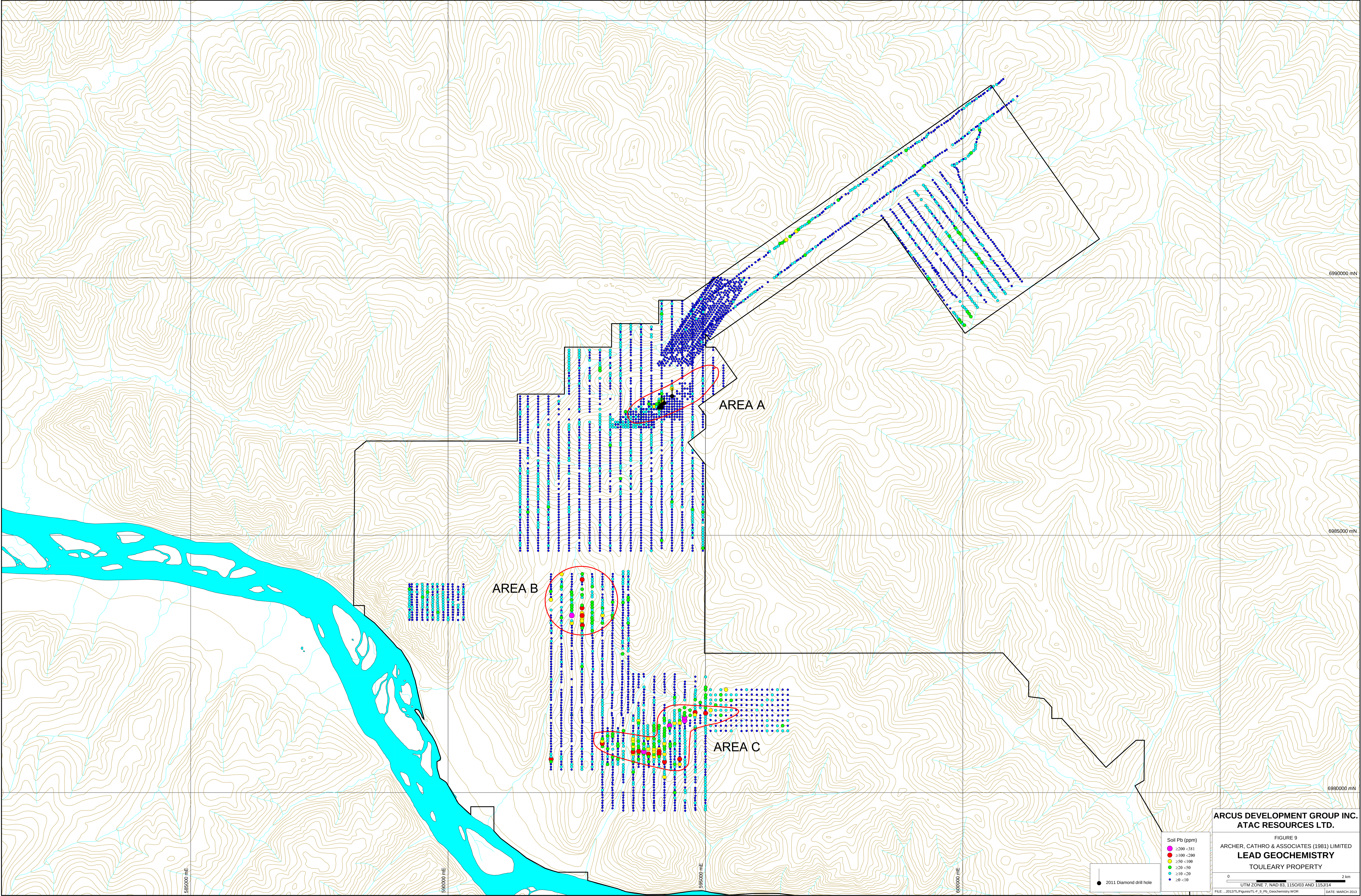
0 2 km
UTM ZONE 7, NAD 83, 1150103 AND 115114
FILE: _2012TLFigures\TL.F_5_Au_Geochemistry.WOR DATE: MARCH 2013



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ATAC RESOURCES LTD.

FIGURE 7
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
COPPER GEOCHEMISTRY
TOULEARY PROPERTY

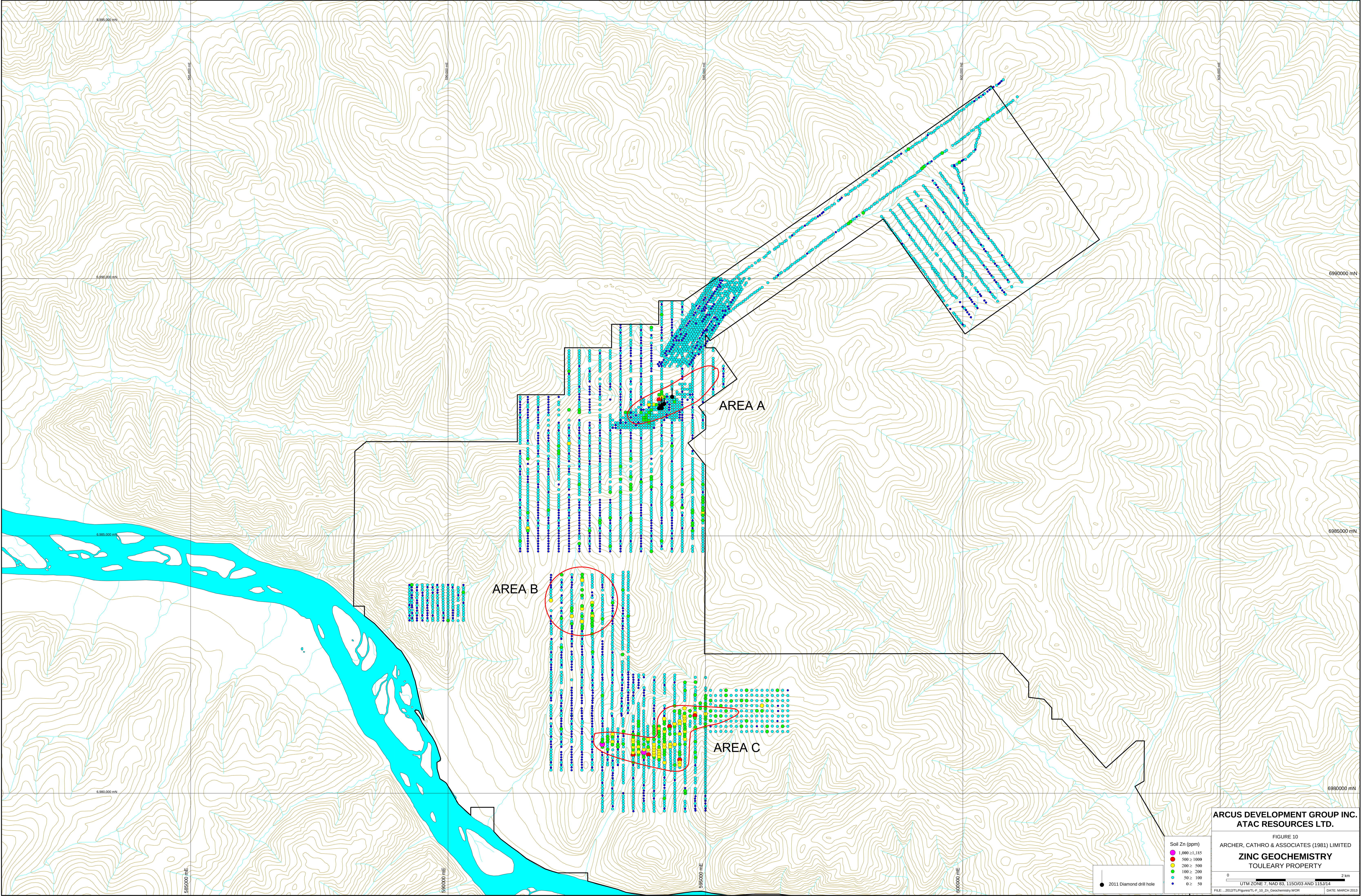




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FIGURE 9
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
LEAD GEOCHEMISTRY
TOULEARY PROPERTY

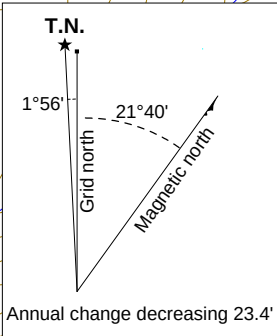
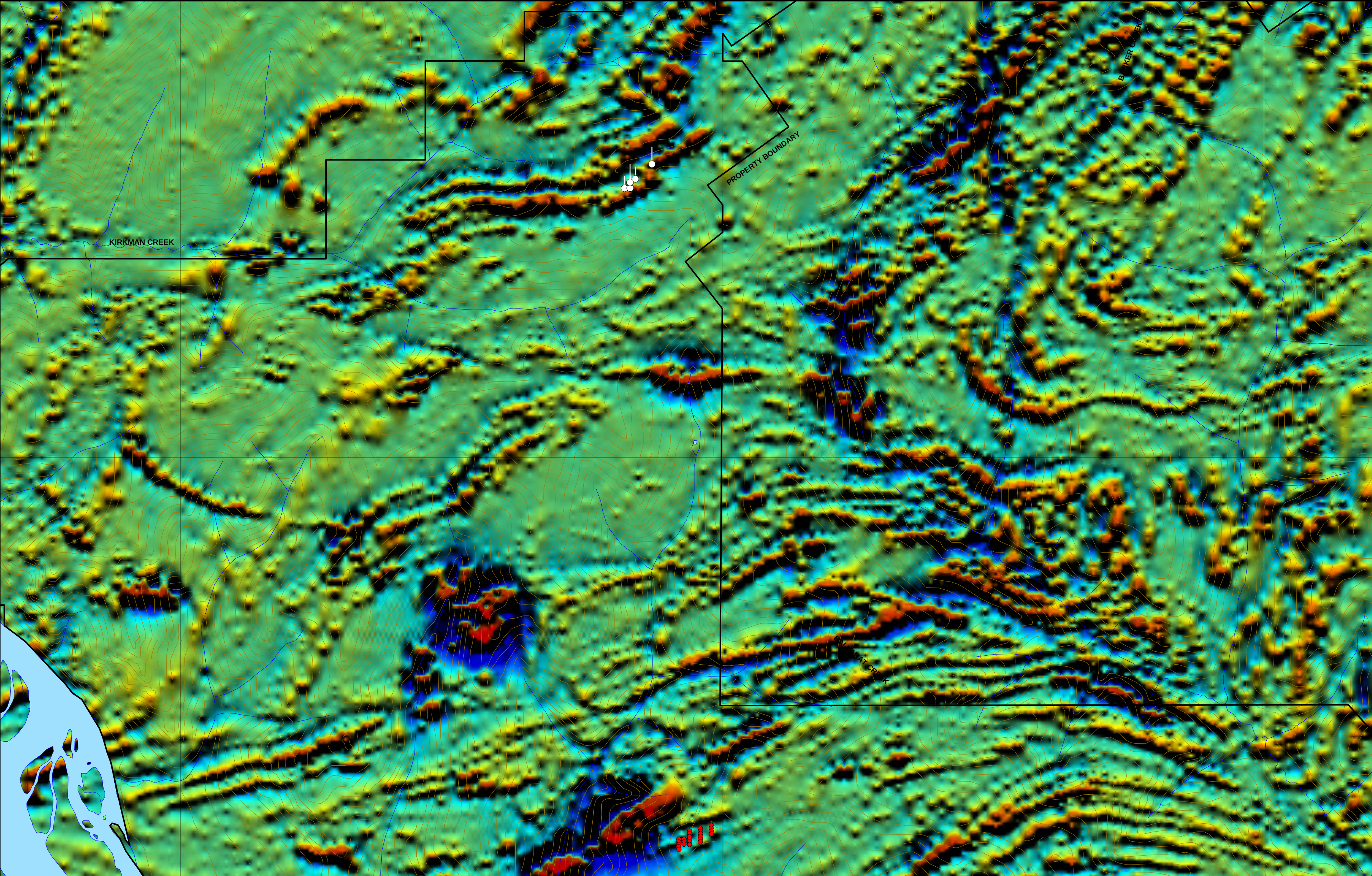
0 2 km
UTM ZONE 7, NAD 83, 1150103 AND 1153114
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ARCUS DEVELOPMENT GROUP INC.
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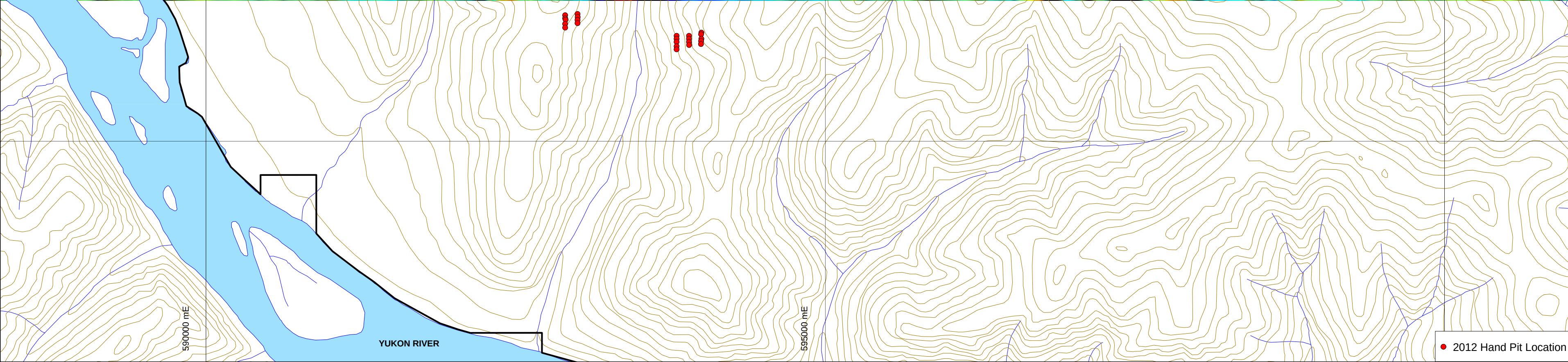
FIGURE 10
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
ZINC GEOCHEMISTRY
TOULEARY PROPERTY

0 2 km
UTM ZONE 7, NAD 83, 1150/03 AND 115/14
FILE: _2012TUFigures\TUF_10_Zn_Geochemistry.WOR DATE: MARCH 2013



6985000 mN

6980000 mN



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FIGURE 15
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
**FIRST VERTICAL DERIVATIVE (MAG),
DDH AND HAND PIT LOCATIONS
TOULEARY PROPERTY**

0 500 1000 2000 m

UTM ZONE 7, NAD 83, 1150/03 AND 1151/14, Contour interval: 100 ft.
FILE:..2012/FIGURE_15_VTEM_DDh [DATE: MARCH 2013]

● 2012 Hand Pit Location