ASSESSMENT REPORT TITLE PAGE AND SUMMARY

TITLE OF REPORT: 2010 Summary Report on Exploration Activities on the Mons Creek Property

TOTAL COST: $100,531.41

AUTHOR(S): Felicia Y. Chang, David F. Gale
SIGNATURE(S):

NOTICE OF WORK PERMIT NUMBER(S)/DATE(S): MX-4-392
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YEAR OF WORK: 2010

PROPERTY NAME: Shovelnose

CLAIM NAME(S) (on which work was done): 521067, 521061, 521063, 521064, 594225, 594226, 594228, 594229

COMMODITIES SOUGHT: Gold, Silver

MINERAL INVENTORY MINFILE NUMBER(S),IF KNOWN: 092O040 (ML Showing).

MINING DIVISION: Nicola Mining Division
NTS / BCGS: 092H/15
LATITUDE: 49°52'
LONGITUDE: 120°50' (at centre of work)
UTM Zone: 10 (NAD 83) EASTING:655000E NORTHING:5526000N

OWNER(S): Strongbow Exploration Inc.

MAILING ADDRESS: Suite 860-625 Howe Street, Vancouver, BC, V6C2T6

OPERATOR(S) [who paid for the work]: Strongbow Exploration Inc.

MAILING ADDRESS: As Above

REPORT KEYWORDS (lithology, age, stratigraphy, structure, alteration, mineralization, size and attitude. **Do not use abbreviations or codes**)
Spences Bridge Group volcanic rocks, rhyolite flows and crystal tuffs, siliceous fragments, northwest and northeast structures, low sulphidation quartz veins, colloform bands, bladed quartz pseudo-morphed to calcite, silica, limonite, argillic alteration, elevated gold and silver

REFERENCES TO PREVIOUS ASSESSMENT WORK AND ASSESSMENT REPORT NUMBERS:
28704, 29642

TYPE OF WORK IN THIS REPORT	EXTENT OF WORK (in metric units)	ON WHICH CLAIMS	PROJECT COSTS APPORTIONED (incl. support)
GEOLOGICAL (scale, area)			
Ground, mapping			$11843.53
Photo interpretation			
GEOPHYSICAL (line-kilometres)			
Ground			
Magnetic (23.2 line km)		521067, 521061	$26605.07
Electromagnetic			
Induced Polarization			
Radiometric			
Seismic			
Other			
Airborne			
GEOCHEMICAL (number of samples analysed for …)			
Soil (353)		521067, 521061	$25723.24
Silt			
Rock (43)		521067, 521061, 521063, 521064, 594225, 594226, 594228, 594229	$14171.00
Other			
DRILLING (total metres, number of holes, size, storage location)			
Core			
Non-core			
RELATED TECHNICAL			
Sampling / Assaying			$8188.57
Petrographic			
Mineralographic			
Metallurgic			
PROSPECTING (scale/area)		521067, 521061, 521063, 521064, 594225, 594226, 594228, 594229	$10000.00
PREPATORY / PHYSICAL			
Line/grid (km)			
Topo/Photogrammetric (scale, area)			
Legal Surveys (scale, area)			
Road, local access (km)/trail			
Trench (number/metres)			
Underground development (metres)			
Other (report)			$4000.00
		TOTAL COST	$100531.41

2010 REPORT ON EXPLORATION ACTIVITIES

PROSPECTING, GEOPHYSICS AND GEOCHEMISTRY
SHOVELNOSE PROPERTY
(CLAIMS: 521054, 521055, 521056, 521057, 521059, 521060, 521061, 521062, 521063, 521064, 521065, 521066, 521067, 521068, 521069, 521070, 594225, 594226, 594227, 594228, 594229)

Nicola Mining Divisions
Merritt Area, British Columbia
NTS: 92H/15; BCGS: 092H086, 087, 096, 097
Latitude 49°52' N Longitude 120°50' W
UTM Zone 10: 655000E, 5526000N (NAD 83)

March, 2011

(BC 2010 ASSESSMENT)

By
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David F. Gale, P. Geo (BC)

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SUMMARY

The Cretaceous-age Spences Bridge Volcanic Belt is part of the southern Intermontane tectonic belt of the Canadian Cordillera. The Shovelnose property is located 30 km southeast of Merritt, BC, near the southeast end of the volcanic belt. Dominant rock types that underlie the Shovelnose property consist of Nicola Group intermediate volcanics and minor intrusives, Spences Bridge Group andesite flow, volcaniclastics, crystal lithic tuffs and rhyolite flows, and Princeton Group basalt flows. Cretaceous rhyolite flows form the cover sequence on the property. Normal faulting along north to northeast and northwest-trending structures offset the Nicola and Spences Bridge Group rocks. Much of the southern part of the property is accessible by road but outcrop is limited in many areas due to extensive soil and till cover.

Since 2003, the discovery of high grade gold mineralization from Lillooet to Princeton, including Skoonka Creek (Strongbow Exploration Inc.), Prospect Valley (Consolidated Spire Ltd.), and Ponderosa, PV and Nicoamen (Almaden Minerals Ltd.) indicates the potential of the Spences Bridge Group. At Shovelnose, exploration from 2006 to 2009 exposed four zones of gold mineralization in the south-central part of the property: Mik, Line 6, Tower and Brookmere. Work in 2010 focused on expanding the surface extent of the Mik and Line 6 showings through surface and auger soil sampling (172 samples), prospecting (35 samples), and ground magnetometer surveys (23.2 line kilometres). Exploration also focused on defining regional geochemical targets through infill soil sampling (191 samples) and prospecting (8 samples).

The Line 6 showing comprises a 600m by 400m area of south-southwest trending massive and crustiform quartz veins and local vein breccia zones hosted within sericite-argillite-limonite altered felsic crystal siliceous lithic tuff. Auger and surface sampling both confirmed and extended a two-sample, gold-in-soil anomaly in the southwest portion of Line 6 to a 100m, east-west trending zone of anomalous gold and coincident molybdenum. Although this soil anomaly is situated over crystal lithic tuff (PFclt) and not the gold-bearing, silicic lapilli-bearing variety (PFcls), the strength of this geochemical anomaly suggest the potential for Line 6 mineralization to continue to the southwest, possibly under the PFcls unit. Additional evidence for this potential is observed as a broad magnetic low feature that represents the central to western portion of the Line 6 mineralization, including this southwest Line 6 geochemical anomaly. Infill sampling south of Line 6 identified two spot gold-in-soil anomalies 200m and 500m to the south.

The Mik showing is located 1 km east of the Line 6 showing and is defined by a 200m wide zone of gold mineralization. Similar to Line 6, quartz veins are striking south-southwest and are commonly massive, with weakly developed colloform bands hosted in sericite-silica-limonite altered felsic crystal siliceous lithic tuff. Surface and auger sampling suggest that gold mineralization is sporadic, with follow up samples producing mixed results. Prospecting led to the discovery of a new zone of quartz subcrop and

boulders to the south of the main zone of trenching, which returned the best results of 153.8 ppb and 416.9 ppb gold, 52.1 ppm arsenic, and 61.9 ppm copper. Infill soil sampling south of the Mik zone defined a few gold-in-soil spot anomalies, with results of 19.5 ppb up to 77.6 ppb Au. Together with the highly anomalous 119.37 g/t Au sample collected in 2008, a north-northwest trending lineament and broad magnetic low to the west of this lineament, these samples continue to suggest the potential for gold mineralization in this area southeast of the Mik zone.

Regional prospecting and rock sampling in the southeast portion of the Shovelnose property led to the discovery of a new area of interest. A subrounded boulder of chalcedonic and vuggy quartz returned 590.7 ppb gold, 10.16 ppm mercury and 26.5 ppm antimony and two boulders of volcanic rocks returned 92 and 107.3 ppm copper.

The use of auger soil sampling as a comparison to traditional surface soil sampling produced mixed results. The assay results for gold and pathfinder elements did not consistently show higher values in auger sampling and did not suggest that their values increase with depth. Despite the mixed results, auger sampling should be the preferred geochemical technique applied for areas of thicker overburden or areas with poor to disturbed soil profiles to ensure the best test of the soil media at depth, closer to bedrock.

Regional government mapping of the Spences Bridge Gold Belt correlates its PS4 lapilli tuff unit with the PFcls (crystal lapilli tuff with silicic fragments) locally mapped on the property. Future reconnaissance exploration should involve soil surface and auger sampling, prospecting and trenching. The focus should be in areas where these Cretaceous-aged siliceous volcaniclastic units have been mapped, particularly where northeast and northwest-trending faults have been outlined or interpreted. Exploration efforts should also focus on drill testing the Mik and Line 6 zones to test for vein continuity at depth and underneath younger rhyolite flows.

1.0 INTRODUCTION

The Shovelnose property, located next to the village of Brookmere, south of Merritt, was acquired by Strongbow Exploration in 2005 based on the occurrence of prospective Spences Bridge Group volcanic rocks and anomalous gold values in RGS silt samples. Fieldwork in 2010 included follow-up soil sampling, prospecting, channel sampling, and ground magnetometer survey. The purpose of this report is to provide an update and summary of exploration work conducted within the Shovelnose property.

1.1 Location, Access, Physiography and Climate

The Shovelnose property is situated at latitude 49°52’N and longitude 120°50’W or 655000E, 5526000N (UTM NAD 83, Zone 10). It is located 30 km southeast of Merritt, next to the community of Brookmere in south-central British Columbia, less than 10

minutes east the Coquihalla highway (Figure 1). The property can be accessed from Merritt in less than a half-hour drive, along the highway and well maintained logging roads. To enter the northern portion of the property, turn east off the Coquihalla onto the Kane Valley road, and for the South end of the property including the Mik/Line 6 showings, turn east off the Coquihalla highway along the Coldwater road towards the community of Brookmere. The close proximity to Merritt provides the project with good logistical support. The property area is covered by 1:50,000 scale NTS map sheet 92H/15.

The Shovelnose property lies within the Intermontane physiographic region, in the western area of the Okanagan Plateau, in the Coldwater River drainage basin. It is situated on a plateau with several small steep rolling hills including Shovelnose Mountain. The area has been logged numerous times historically and contains several recreational ATV trails, as well as numerous cattle pastures. Elevations range from 860 m on its lower western margin near the Coldwater River to 1680 m at the radio/cellular tower on Shovelnose Mountain. Shovelnose Mountain lies within a broad transition from coastal to interior climatic zones. Forests are generally mixed pine forest with open grassy areas to wetlands particularly at low elevations to the north and east. Northern slopes tend to be denser and overgrown while south-facing slopes are less so. Bedrock is scattered and poor with some exposures in road-cut at lower elevations and at higher elevations. Soil and till cover is extensive on lower slopes although thicknesses are unknown.

The climate in the Merritt area is dry with little precipitation (annual mean total of 30 mm) and presents mild winters (~-3^{0}C) with a temperate spring and fall seasons (~7^{0}C). It is one of the warmest places in the Thompson-Nicola region, with warm and sunny summers (~26^{0}C and 2,030 hours of sunshine) (Environment Canada, 2011; City of Merritt, 2011). As a result of its warm and dry climate, the Merritt region has a longer than average growing season of five months.

1.2 Claim Data

The Shovelnose property was staked by Strongbow Exploration on October 12th, 2005 as Shovel-1 through -16 (Figure 2). As a result of 2008 fieldwork, five new claims (Shovel-17 to 21) were staked in November 2008, with the property now comprising twenty-one contiguous claims. The claim data is summarized below in Table 1 and the new expiration date incorporates the 2010 work.

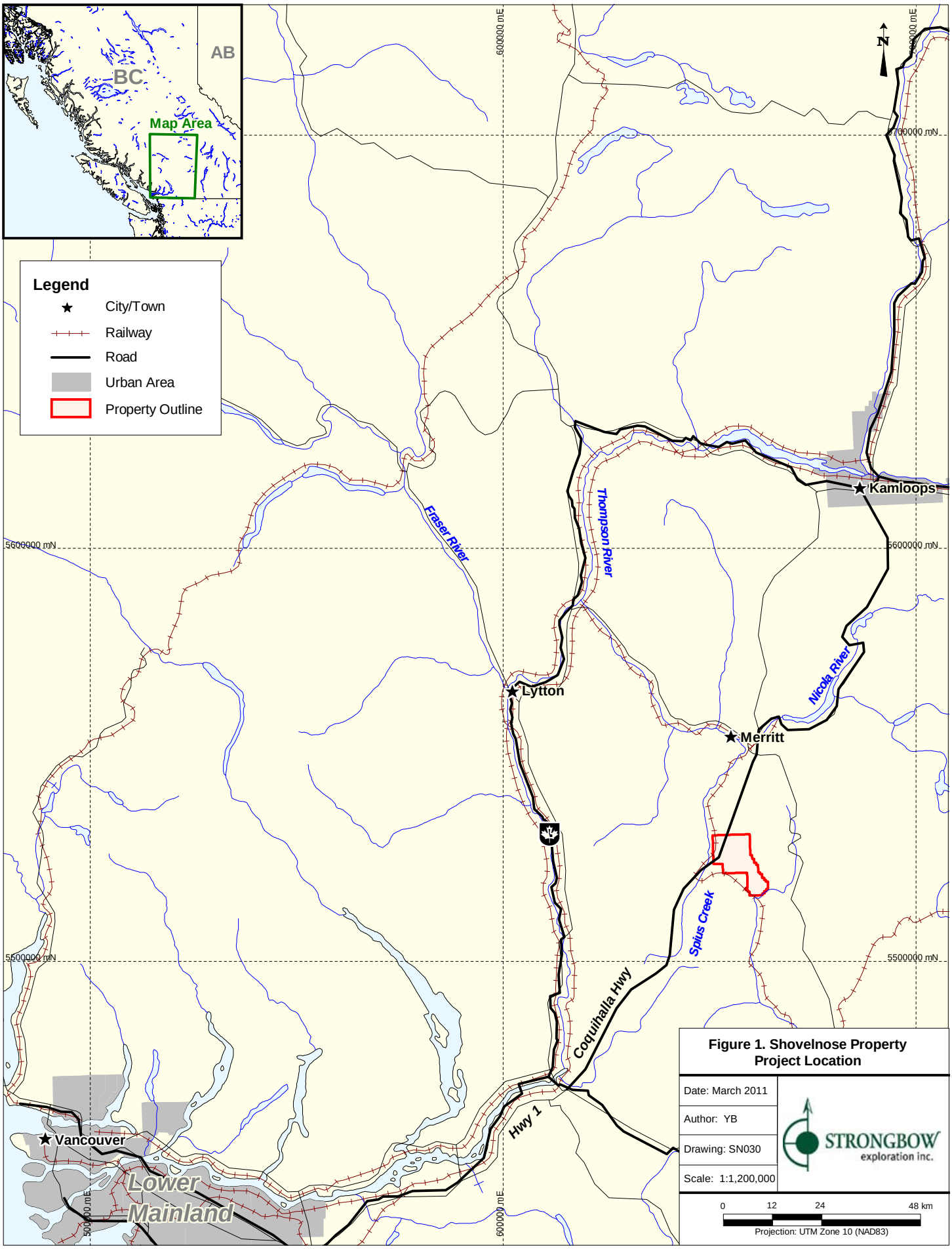


Figure 1. Shovelnose Property Project Location

Date: March 2011	STRONGBOW exploration inc.
Author: YB	
Drawing: SN030	
Scale: 1:1,200,000	

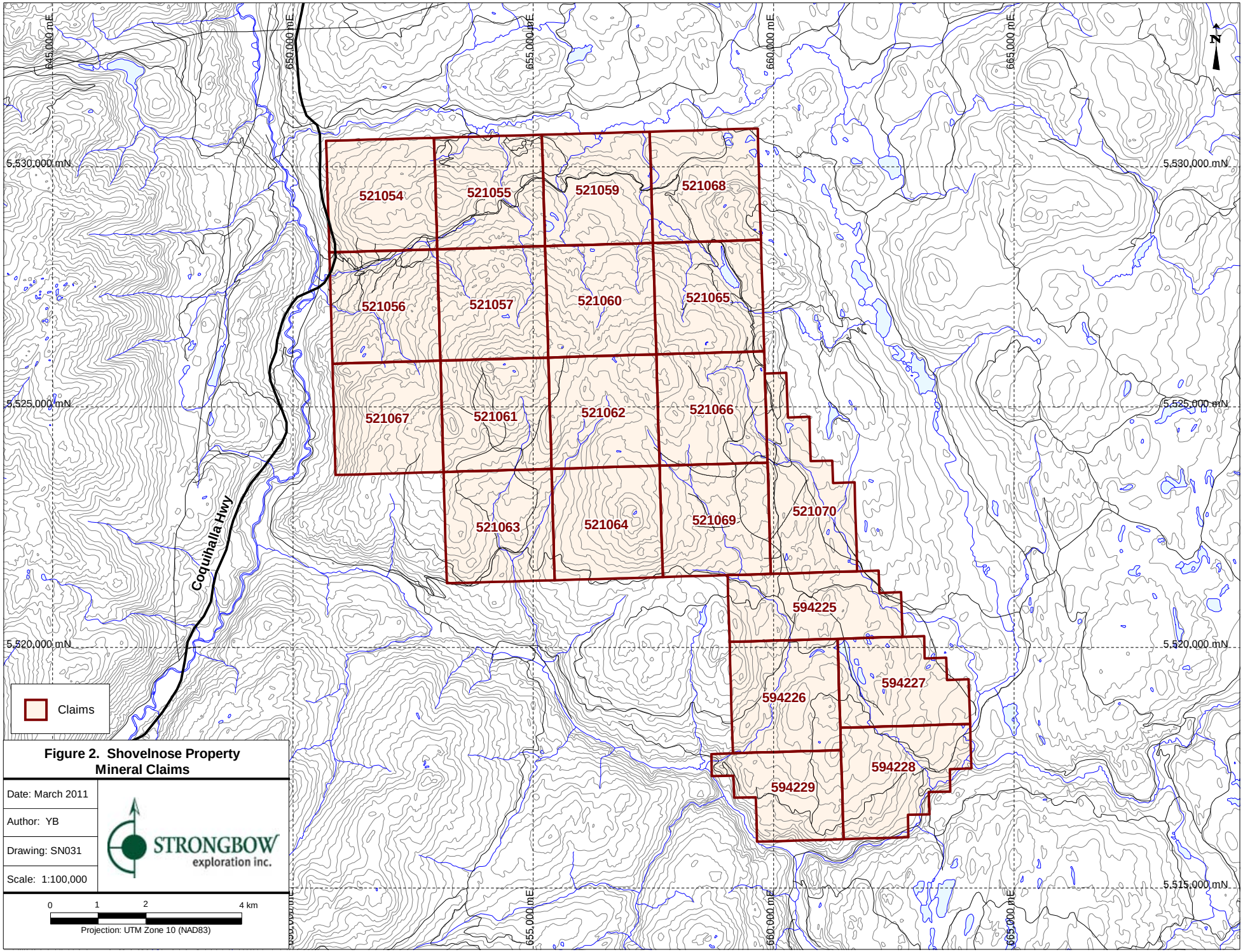


Figure 2. Shovelnose Property Mineral Claims

Date: March 2011	STRONGBOW exploration inc.
Author: YB	
Drawing: SN031	
Scale: 1:100,000	

0 1 2 4 km

Projection: UTM Zone 10 (NAD83)

Table 1. Shovelnose Mineral Claims

Claim	Tenure No.	Issue Date	Expiry Date	Area (ha)
SHOVEL-1	521054	2005/Oct/12	2014/Jul/01	520.30
SHOVEL-2	521055	2005/Oct/12	2014/Jul/01	520.30
SHOVEL-3	521056	2005/Oct/12	2016/Oct/08	520.52
SHOVEL-4	521057	2005/Oct/12	2016/Oct/08	520.52
SHOVEL-5	521059	2005/Oct/12	2014/Jul/01	520.31
SHOVEL-6	521060	2005/Oct/12	2014/Jul/01	520.53
SHOVEL-7	521061	2005/Oct/12	2016/Oct/08	520.74
SHOVEL-8	521062	2005/Oct/12	2016/Oct/08	520.75
SHOVEL-9	521063	2005/Oct/12	2016/Oct/08	520.97
SHOVEL-10	521064	2005/Oct/12	2014/Jul/01	520.97
SHOVEL-11	521065	2005/Oct/12	2014/Jul/01	520.53
SHOVEL-12	521066	2005/Oct/12	2014/Jul/01	520.75
SHOVEL-13	521067	2005/Oct/12	2016/Oct/08	520.74
SHOVEL-14	521068	2005/Oct/12	2014/Jul/01	520.31
SHOVEL-15	521069	2005/Oct/12	2014/Nov/30	520.97
SHOVEL-16	521070	2005/Oct/12	2014/Jul/01	520.93
SHOVEL-17	594225	2008/Nov/13	2014/Nov/30	479.46
SHOVEL-18	594226	2008/Nov/13	2014/Nov/30	521.32
SHOVEL-19	594227	2008/Nov/13	2014/Nov/30	437.91
SHOVEL-20	594228	2008/Nov/13	2014/Nov/30	500.63
SHOVEL-21	594229	2008/Nov/13	2014/Nov/30	396.35

1.3 History

The discovery of placer gold in gravel bars adjacent to Strongbow's Skoonka Creek property, located 75 km to the northwest of Shovelnose, ignited the Fraser and Thompson rivers gold rush between the 19th and 20th centuries (Balon, 2005). Placer gold was mined from gravel bars on major tributaries in the Ashcroft-Lytton-Lillooet district. In particular, the Nicoamen River, located 12 km downstream from the mouth of Skoonka Creek, played a role in initiating the gold rush in interior British Columbia.

In 2003, Almaden Minerals Ltd. conducted prospecting and reconnaissance geochemical sampling in a belt of rocks known as the Spences Bridge Group, which included the Skoonka Creek Property northeast of Lytton, BC and the Prospect Valley Property west of Merritt. Strongbow optioned the Skoonka Property from Almaden and following the 2005 work program, staked a number of properties within the Spences Bridge Group. A RGS silt anomaly in an east-west trending creek southeast of Kingsvale, on the north-western flank of Shovelnose Mountain, returned 68 ppb gold. This prompted Strongbow geologists to stake the Shovelnose claims.

The 2006 exploration program on the Shovelnose property involved reconnaissance silt sampling, prospecting, trenching, bedrock mapping and follow-up soil sampling. This work uncovered a geochemical trend, referred to as the Tower showing, which covers a 100 m wide area of intense clay and silica alteration in rhyolite tuff with gold grades that have returned assays grading up to 505 ppb.

Exploration in 2007 consisted of an initial phase of regional and detailed soil sampling, prospecting and airborne geophysics. The follow-up phase of work consisted of regional bedrock mapping and hand trenching of two new showings exposed from the initial work: Mik and Line 6. In 2007, the Mik showing, located 380m to the southwest of the Tower showing, comprised of a 200m wide area of silica alteration and south-southwest striking colloform-banded quartz veins in volcaniclastic host rocks, yielding gold values up to 46.3 g/t. The Line 6 showing is located 1.6 km to the west of the Tower showing and comprises a 600m wide area associated with southwest-striking quartz veins, hydrothermal breccia and silica alteration in volcaniclastic host rocks.

Exploration in 2008 was focused on understanding the nature and extent of mineralization discovered in 2006 and 2007. Work consisted of detailed grid soil sampling (50m x 50m and 25m x 25m), which collected 272 soil samples, reconnaissance and detailed prospecting which collected 240 rock samples, 1:10,000 scale bedrock mapping property of the southwestern portion of the property, and 199m of mechanized trenching over the Mik and Line 6 showings. Gold values of up to 1.4 g/t Au over 16m, 16.95 g/t Au over 2m and 1.4 g/t Au over 3m were recovered respectively from trenches L6-XT-01, 02 and MX-XT-01.

Exploration in 2009 was mainly focused on expanding the mineralized trends discovered in 2006 to 2008 and follow-up on previously identified geochemical anomalies. Work consisted of follow-up prospecting and mapping on anomalous gold-in-soil samples in the Line 6 and Mik zones and in an anomalous copper zone located in the northern part of the property. Discovery of more quartz veins in the Line 6 zone prompted two hand trenches followed by 303.3m of mechanical trenching and 47.7m of mechanical trenching in the Mik zone. A total of 193 rock and 14 soil samples were collected. Line 6 zone trench samples from L6-XT-06 yielded values of 0.8 g/t Au over 21m; including 4.86 g/t Au over 2m, whereas Mik zone trench samples from MK-XT-04 returned values of 2.72 g/t Au over 2.9m and vein chip samples of up to 66.4 g/t Au.

1.4 2010 Exploration Program

Exploration during the 2010 field season had two main objectives: (1) expanding mineralization at the Mik and Line 6 zones by using ground geophysics and auger soil sampling and (2) finding new targets in the southeast portion of the property (claims Shovel 17 to 21) through prospecting. Soil sampling included 89 auger holes with a total of 172 associated soil samples, 188 in fill soil samples in the Mik and L6 grid areas and 3 soil samples as follow up checks on previous soil sample anomalies in the central Shovelnose area ("Anomaly D" and vicinity). Rock sampling included 7 trench channel samples (5 samples from MK09-XT-06 and 2 samples from L609-XT-08A), 1 trench chip sample (L609-XT-08A), 1 trench grab sample (MK09-XT-06), 26 grab samples from the Mik area and 8 grab samples from the Shovelnose Southeast area. Approximately 155.5 person-days were spent on the property between June 17th and July 14th, 2010 by Strongbow staff. A total of 23.2 line km of gridding and ground magnetometer surveys were completed over the Mik and Line 6 zones. In total, 363 soil samples and 43 rock samples were collected for the property.

2.0 GEOLOGICAL SETTING

2.1 Regional Geology and Mineral Deposits

The Shovelnose property is situated near the south end of the Intermontane Belt (Map 1). The southern Intermontane Belt is dominated by the Upper Triassic Nicola Group, a west-facing magmatic arc sequence comprising the south end of the Quesnel Terrane (Monger, 1989). The Nicola Group consists of a north-trending belt of volcanic rocks and sediments. These rocks are intruded by Late Triassic and Early Jurassic co-magmatic plutons, and are unconformably overlain by Cretaceous and Tertiary volcanic rocks and clastic sediments (e.g. Spences Bridge Volcanic Belt and Princeton Group). This post-accretionary volcanism and sedimentation is in part controlled by a system of northerly striking strike-slip faults (e.g. Summers Creek and Allison faults). This island arc assemblage is bounded to the east and west by intrusions, mostly of Jurassic age (Monger, 1989). The Early Jurassic Pennask batholith and Bromley pluton, and the Middle Jurassic Osprey Lake batholith occur east of the Nicola belt. The Late Jurassic to Early Cretaceous Eagle Plutonic Complex flanks the Nicola belt to the west.

Predominant lithologies that cover the Shovelnose and surrounding region comprise Miocene age Chilcotin group basalt, Eocene Princeton Nicola Group volcanics, Mesozoic metasediments of the Ladner, Cayoosh assemblage, Jackass Mountain Group, Pasayten group, Paleozoic metasediments of the Chilliwack group and Hozameen complex and Spences Bridge Group volcanics (Map 1). Stratigraphy is intruded by abundant Late Triassic and/or Jurassic to Miocene plutons such as the Allison Lake pluton. Metamorphic assemblages consist of Cache Creek Complex mélanges and Bridge River Complex metamorphic and ultramafic rocks. Quaternary sediments occur as thick drifts along the main rivers and some of the larger creeks.

City/Town
Mine
Fault
Lithological Contact
Road
River
Property Outline
Lake

Geology Legend

Quaternary

- Qvk - Alkaline volcanic rocks

Cenozoic

- Mivb - Basaltic volcanic rocks
- ETg - Intrusive rocks, undivided
- Egd - Granodioritic intrusive rocks
- EKav - Kamloops Group volcanic rocks
- EKas - Kamloops Group sedimentary rocks
- EPrb - Princeton Group volcanic rocks
- EPr - Princeton Group sedimentary rocks
- Efp - Feldspar porphyritic intrusive rocks
- Pegd - Granodioritic intrusive rocks

Mesozoic - Cenozoic

- KTmm - Mid amphibolite/andalusite grade metamorphic rocks
- LKTgd, LKgd - Granodioritic intrusive rocks

Mesozoic

- Ks - Sedimentary rocks
- KJ - Jackass Mountain Group sedimentary rocks
- KP - Pasayten Group sedimentary rocks
- IKSBSva, IKSB, IKSBPva, IKSBP - Spences Bridge Group - Spius Creek and Pimainus Formations
- MKgr, MKgd - Granite, granodioritic alkali feldspar granite intrusive rocks
- JKsf - Mudstone, siltstone, shale fine clastic sedimentary rocks
- JKCsc - Cayoosh Assemblage - coarse clastic sedimentary rocks
- LJto - Tonalite intrusive rocks
- ImJA - Ashcroft Formation - mudstone, siltstone, shale fine clastic sedimentary rocks
- ImJLA - Ladner Group - mudstone, siltstone, shale fine clastic sedimentary rocks
- ImJLAD - Dewdney Creek Formation - coarse clastic sedimentary rocks
- LTrJdr - Dioritic intrusive rocks
- LTrJto - Tonalite intrusive rocks
- LTrJgd - Granodioritic intrusive rocks
- LTrJGqm, LTrJGH, LTrJGG, LTrJGBe, LTrJGBo, LTrJGB - Guichon Creek Batholith - quartz monzonitic, granodioritic, and quartz dioritic intrusives
- uTrN, UTrNE, UTrNC, UTrNW, UTrNml - Nicola Group - andesitic to basaltic volcanic rocks

Paleozoic

- PzMzlm - Limestone, marble, calcareous sedimentary rocks
- PzMzcg - Conglomerate, coarse clastic sedimentary rocks
- PTrMgd, PTrMdr, PTrMml - Mount Lytton Complex - granodioritic to dioritie intrusive and amphibolite/kyanite grade metamorphic rocks
- PJdr - Dioritic intrusive rocks
- PJumm - Ultramafic rocks
- MmJBsv - Bridge River Complex - marine sedimentary and volcanic rocks
- MmJBus - Bridge River Complex - serpentinite ultramafic rocks
- PTrCM - Cache Creek Complex - Marble Canyon Formation limestone, marble, calcareous sedimentary rocks and Eastern Belt serpentinite ultramafic rocks

Highland Valley Mine
Logan Lake
Craigmont Mine
Lytton
Merritt

Map 1. Spences Bridge Regional Geology

Date: Feb 2011
Author: YB
Drawing: SN012
Scale: 1:150,000

STRONGBOW exploration inc.

0 3 6 12 km
Projection: UTM Zone 10 (NAD83)

More recently, 1:50,000 scale regional mapping completed by the British Columbia Geological Survey (BCGS) in 2008 by Diakow and Barrios focused on the central to south portion of the Spences Bridge Volcanic Belt (SBVB), near Merritt (Map 2). The focus of the mapping is to further distinguish the stratigraphic subdivisions for the Spences Bridge Group and study their relationships with gold mineralization. The map area is underlain by two magmatic arc successions, the Late Triassic Nicola Group and overlying Early Cretaceous Spences Bridge Group. The Nicola Group is uniquely characterized by Late Triassic (Carnian) felsic volcano-sedimentary-limestone successions containing silica-carbonate exhalite and sinter with a weakly elevated epithermal geochemical signature. Low-sulphidation epithermal gold quartz veins occur throughout the range of Spences Bridge Group stratigraphy. A U-Pb isotopic date of 104.5±0.3Ma from the hornblende-biotite rhyolite (PS3) and 59.1 Ma for the rhyolite at the top of Shovelnose Mountain (PS6) suggest these rhyolites are mid-Cretaceous to early Tertiary in age (Diakow and Barrios, 2008). A contemporaneous Ar/Ar date of 104.2±0.6 Ma on hydrothermal alteration is derived from a gold-bearing epithermal quartz vein system hosted by the upper Spius Formation at the Prospect Valley showing (Diakow and Barrios, 2008). For further work on the Spences Bridge Volcanic Belt, please refer to Thorkelson (1985), Thorkelson (1986), Thorkelson and Rouse (1989), Thorkelson and Smith (1985), Monger (1989), and Diakow and Barrios (2008).

The Craigmont copper iron skarn mines, Nickel Plate/Hedley Mascot and Elk/Siwash Lake are significant mineral deposits that occur in the area of the Shovelnose property. The Craigmont mine contains 33 million tonnes grading 1.3% Cu (Balon, 2005) and lies adjacent to the southern margin of the Guichon Creek batholith. Host rocks are calcareous sedimentary rocks of the Nicola Group comprised of limestone, limy tuff, greywacke and argillite rocks. Mineralization consists of magnetite, hematite and chalcopyrite and occurs as massive pods, lenses and disseminations extending through the calc-silicate horizon. The body is roughly tabular, trends east and dips near vertically. Minor folding and faulting is present but does not significantly distort the mineralization (MINFILE 092ISE035). The Hedley Mascot mine was a historic, high-grade Au-Ag skarn deposit lying high above the town of Hedley. The mine is a discontinuous garnet pyroxene skarn mineralized with arsenic, pyrrhotite, chalcopyrite, sphalerite and magnetite. The deposit is hosted in sediments of the Nicola Group, which have been extensively intruded by hornblende porphyritic diorite sills and dykes (MINFILE 092HSE036). The Siwash Lake (Elk) deposit, located approximately 40 km east of the Shovelnose property (Map 1), is currently being exploited by Almaden Minerals Ltd (Almaden). Mineralized quartz veins containing both gold and silver are hosted in the margin of the middle Jurassic age Osprey Batholith, itself hosted in upper Triassic Nicola age volcanic rocks (MINFILE 092HNE041). This high-grade mesothermal Au-Ag deposit produced 51,750 ounces in the 1990's. Almaden's recent release of a NI 43-101 Technical Report shows a combined Measured and Indicated mineral resource for the B and WD veins, both in the pit shell (reported at 0.50 g/t Au) and below the pit shell (Reported at 5.00 g/t Au), of 2.2 Mt at 4.26 g/t Au (300,000 ounces). Inferred mineral

Copper Zone

104.5+/- 0.3 Ma

FMN

Line 6

Mid

Tower Zone

Brookmere

104+/- 0.3 Ma
Isotopic Age Determination (millions of years)
U-Pb (crystallization date)
Gold Showing
Geological Mapping Boundary
Property Outline
Roads
Trail

Geology

Fault
Inferred Contact
Outcrop

Intrusive Rocks

Age Unknown

Por - Feldspar Porphyry
Md - Mafic Dykes
Sd - Syenite Dykes

Princeton Group

PGbas - Basalt

Spences Bridge Group

Pimainus Formation

PFkpd - K-feldspar-plagioclase Dacite
PFfr - Feldspar Rhyolite
PFhbr - Hornblende-biotite Rhyolite
PFclt - Crystal Lithic Tuff
PFcls - Crystal Lithic Tuff + Siliceous Fragments
PFdio - Diorite Dyke
PFdac - Dacite flow
PFflo - Massive, fine-grained Flows/Silts - Andesite
PFlap - Undivided Lapilli: Tuffs, Massive & Bedded

Nicola Group

NGmz - Monzonite
NGgr - Granite

Structure Symbols

Bedding - Upright
Layering - Compositional
Foliation (cleavage, schistosity) - 1st gen
Fault - Unknown Sense
Vein - (Unspecified Vein, Quartz Vein)
Dyke
Joint
Glacial Striae

Map 2. Shovelnose Project
Property Geology and Gold Showings

Date: March 2011
Author: YB
Drawing: SN011
Scale: 1 : 20,000

STRONGBOW exploration inc.

0 0.4 0.8 1.6 km
Projection: UTM Zone 10 (NAD83)

resources reported with the same criteria shows 1.2 Mt at 7.13 g/t Au (263,000 ounces) (Pooley et al., 2010).

2.2 Property Geology, Alteration and Mineralization

2.2.1 Geological Units

The Shovelnose property-scale geology is underlain by late Triassic Nicola Group volcanics and equivalent-aged intrusives, early-late Cretaceous Spences Bridge Group volcanics of the Pimainus Formation, unconformably overlain by resistive mafic volcanic rocks of the Eocene Princeton group exposed to the northeast (Map 2). A series of small potassium (K) feldspar phyric syenite bodies and mafic dykes intrude into and cross-cut the volcanic stratigraphy. Outcrops are generally small and most abundant on topographic highs. Detailed descriptions of the geologic units are provided below and incorporate previous mapping efforts by Stewart and Gale (2006), Leatherman (2007), Cooley (2008) and Diakow and Barrios (2008).

Nicola Group

The oldest rocks on the property are represented by limited occurrences of strongly altered and deformed intermediate volcanic rocks and weathered granite (NGgr) mapped in the northwestern portion of the claims. The granite is a pinkish-grey, medium-grained unit composed of K-feldspar, biotite and quartz grains. Both units have been proposed as part of the lower Triassic Nicola Group, which has been confirmed by U-Pb dating done by the BC Ministry of Energy and Mines and Petroleum Resources, which yields ages of 224.6±0.9 Ma and 224.5±0.3 Ma (Diakow and Barrios, 2008). These rocks typically occur on eastern sides of northeast-trending faults, implying that these faults have primarily a west-side down normal sense of displacement and the older Nicola rocks have been exposed in the up-thrown sides.

Monzonite (NGmz) has only been observed in the south part of the property as a pink-grey crystalline unit composed primarily of k-feldspar and plagioclase, with minor hornblende and biotite locally altered to chlorite. Although this unit is cut by syenite dykes, its age relative to the volcanic rocks and granite intrusion of the Nicola Group is uncertain. Recent mapping by the government suggests the age of this intrusion is Cretaceous (Diakow & Barrios, 2008).

Spences Bridge Group

Overlying the Nicola Group rocks is the Spences Bridge Group, which consists of locally carbonate altered andesitic flows (PFflo) and flow top breccias, intervening volcaniclastic debris flows (PFlap) and rhyolite flows (PFfr) of the Pimainus Formation. Andesite flows

are typically massive, grey-green, with a less dominant component of red to grey massive, fine- to medium-grained plagioclase porphyritic flows. Grains are composed of 20 to 40% white to translucent, subhedral to euhedral, feldspar phenocrysts (<5 mm), 5 to 10% black, mafic (pyroxene and/or hornblende) phenocrysts (<3 mm), and occasional 1% subhedral, magnetite crystals (<1 mm). Andesite tuff is generally plagioclase porphyritic, although plagioclase may be potassically altered to potassium feldspar locally. This unit is poorly sorted, and ranges from ash through ash-lapilli and ash-block tuff clast sizes. The lapilli look vitric in places and may be welded to fiamme. Rare pumiceous fragments have been observed in ash tuffs. A minor component of these tuffaceous rocks appear to be epiclastic in nature, with well-rounded boulder-size brown andesite, quartz grains, feldspar grains, white aphanitic clasts, and green and black lithic fragments. Alteration facies include pervasive chlorite, propylitic, hematitic and pervasive silicification alteration. Carbonate is abundant, particularly near the margins of cross-cutting andesite dykes. These rocks are offset by the north-northeast trending normal faults and are locally cut by northeast-trending syenite dykes in the southwest part of the property.

Felsic Volcaniclastics and Flows

A conspicuous unit of crystal lithic tuffs (PFclt) unconformably overlies the porphyritic andesite flows (PFflo) of the Spences Bridge Group rocks in the central Shovelnose area. These rocks generally exhibit a crudely developed planar subhorizontal fabric interpreted to have formed from compaction and flow while the rocks were still hot, shortly after eruption and deposition. Many lithic clasts within this unit are flattened, representing fiamme formed by compacted pumice fragments. Clasts are generally heterolithic and rarely exceed pebble sizes. Crystal fragments in this unit consist of broken coarse-grained feldspars. Within this unit is a mappable subunit that is generally not foliated and which contains conspicuous silicified or siliceous rounded and angular fragments (PFcsl). This unit is the main host to gold-bearing quartz veins encountered in outcrop at the Mik and Line 6 showings on the Shovelnose Property.

Felsic flows occupy both topographic highs and topographic lows where felsic eruptions have flowed down slope into gullies and other depressions in the paleotopography. The oldest felsic flow in the Shovelnose Mountain area is a hornblende biotite quartz eye rhyolite (PFhbr) that occurs along the lower slopes on the southwest side of Shovelnose Mountain, and on the northwest side of a smaller hill that occurs 2 km southwest of Shovelnose Mountain. This hornblende and biotite-bearing unit is locally overlain by a fine-grained rhyolite with feldspar crystals (PFfr) that is observed at the peak of Shovelnose Mountain and also large areas to the east and west of the peak. These resistive peaks of yellowish-grey and reddish-grey to maroon siliceous rhyolite are ubiquitously flow-banded, aphanitic to porphyritic, fine- to medium-grained, contain clear quartz eyes, and are composed of 10% subhedral feldspar phenocrysts (< 5 mm), 1 to 2% subhedral hornblende crystals (< 2 mm), and occasional biotite. Quartz eyes may be partially recrystallized with myrmekitic textures and perlitic cracks have formed in the glassiest flows. Locally, the rhyolite is coarser-grained (5-7 mm) and contains more

phenocrysts. Flow banding is highly variable with regards to azimuth and dip; however in areas with columnar jointing, the flow banding is more consistently sub-horizontal. Flow breccias were also observed within the rhyolite flows. A U-Pb date of 104.5±0.3Ma from the hornblende-biotite rhyolite (PFhbr) and a pending U-Pb date for the rhyolite at the top of Shovelnose Mountain suggest these rhyolites are mid-late Cretaceous age (Diakow and Barrios, 2008). A third felsic unit that contains both potassium feldspar and plagioclase in an aphanitic maroon to grey green flow-banded matrix (PFkpd) forms a topographic high approximately 4 km east-southeast of Shovelnose Mountain. This maroon-matrix unit is tentatively identified as dacitic and is very similar to rocks encountered along the western edge of the property, low down in the valley occupied by the Coldwater River and on the east side of the Brookmere road. Its age relative to the two rhyolite flows mentioned above is uncertain.

Photo 1. Rounded to angular, siliceous fragments (circled black) within the crystal lithic tuff unit. Taken in the Mik showing area.

Princeton Group

On the eastern margin of the property, several small, round-topped hills host the erosional remnants of fine-grained weakly amygdaloidal and weakly porphyritic basalt (PGbas) (Stewart and Gale, 2006). Government mapping has defined this unit as correlative to the Eocene-age Princeton Group volcanic rocks. On the property, these rocks have an aphanitic to nearly glassy texture with fine-grained, euhedral biotite and amphibole phenocrysts. The base of this unit can be observed as an outlier on the northern portion of this property, which overlies a fine charred regolith layer with striated wood fragments.

Syenite and Mafic Dykes

Syenite dykes (Sd) have been mapped at two locations on the property as northeast-trending, bright orange to red units that can measure up to 100 to 200 m in width and contain up to 30% coarse-grained potassium feldspar (Map 2). There appears to be a broad area of ankerite, calcite, silica and pyrite alteration associated with their occurrence. At the Brookmere showing (Map 2), the dykes are sub-parallel to the weakly mineralized quartz veins and to the faults, and crosscut Spences Bridge volcaniclastics. At the south part of the property, the dykes are emplaced along, and crosscut, the contact between an older monzonite intrusion and Princeton Group crystal siliceous lapilli tuff. Although the dykes appear to postdate both Spences Bridge and Princeton group volcaniclastic rocks, it is uncertain if there is one or two generations of syenite dykes.

Mafic dykes (Md) are typically dark greenish-brown, aphanitic and moderately- to strongly-magnetic, with occasional anhedral black mafic phenocrysts (<1 mm). The dykes crosscut the Princeton Group rhyolite flow and tuffaceous lithologies suggesting a subsequent volcanic event.

Faults

Recent mapping has outlined generally northeast trending, west-side down normal faults that offset the underlying Nicola Group and Spences Bridge Group rocks. Less abundant northwest-trending structures have also been mapped and may be splays or conjugate structures to northeast trending ones. In the northwest part of the property where only limited mapping has been conducted, several east-northeast parallel faults have been defined to cut Nicola Group and Spences Bridge rocks. However, it is uncertain if (1) these faults offset the Princeton Group rocks as well and; (2) how they relate to the northeast and northwest-trending earlier faults.

In light of recent mapping, a comparison of the current geological interpretation and airborne geophysical data is warranted. Based on the lineament analysis of the 2007 Fugro total magnetics, calculated vertical gradient, and 900 MHz apparent resistivity data, there does not seem to be a coincidence between lineaments and interpreted faults from recent geological mapping. However, mapped areas of crystal lithic tuff with siliceous fragments at the Mik and Line 6 zones show good correlation with interpreted areas of high K/Th ratios, which likely represent hydrothermal alteration (Chang and Gale, 2008).

2.2.2 Gold Mineralization

Detailed soil grid sampling and follow-up prospecting in 2006 and 2007 generated four showings: Mik, Line 6, Tower, and Brookmere (Maps 2 and 3). Mechanized trenching in 2008 defined the characteristics of mineralization at both the Mik and Line 6 showings. Mechanized trenching in 2009 further expanded the Mik and Line 6 zones.

The Line 6 and Mik showings are located in the southwest part of Shovelnose property, approximately 1 km apart, and are hosted within a crystal lithic tuff with siliceous fragments (Map 2). The Line 6 showing is defined by a 400m-wide, approximately east-west zone of gold mineralization, surrounded by a 600m by 400m outer zone of anomalous gold in soil geochemistry (Maps 4, 5). The Mik showing is defined by a 200m wide zone of gold mineralization, including anomalous gold in soil samples 200m to the north and 50m south of the showing. Mineralization styles at Mik and Line 6 are represented by south- to southwest-striking, shallowly- to moderately-dipping, weakly colloform-banded to massive quartz veins that vary in thickness from 0.5 to 20 cm. Vein breccia phases are also observed at the Line 6 showing, locally up to 60 cm thick. Wall rock alteration comprises patchy to pervasive silica and limonite, patchy to fracture-filled manganese alteration, and patchy to pervasive argillic-sericite alteration in the wall rock. Gold mineralization at both showings is interpreted to be spatially associated with north-northeast trending normal faults that have a west-side down normal sense of displacement in the underlying Spences Bridge Group and Nicola Group rocks. The sense of displacement of these faults within the Pimainus Formation felsic tuffs and flows are ambiguous, however, continued activity along these structures is suggested by local hydrothermal alteration, quartz veining and fracturing that occurs within the tuffs along this structure. Northwest-trending, southwest-dipping normal faults also occur at the heart of the Line 6 showing as splays off the larger north-northeast fault, as well as splays off a larger structure at Mik that is spatially associated with the north-northeast generation of faults. These northwest-trending faults may be conjugate to the north-northeast trending structures. The best vein sample collected to date from Line-6 returned 46.56 g/t Au, with the best composite trench value of 16.95 g/t Au over 2m. At Mik, the best vein sample returned 66.4 g/t Au, with the best composite trench value of 2.72 g/t Au over 2.9m.

The Tower showing comprises a small hummock, measuring approximately 100m x 100m, of intensely silicified, limonite-stained felsic crystal lithic tuff (Map 2). Locally intense clay alteration follows a trend from the showing, roughly north-northwest for 800m along a weakly exposed structure. A second area of alteration and veining, referred to as the FMN occurrence, occurs along this structure and is comprised of float and subcrop of quartz veins. This area has returned weak gold but anomalous arsenic values. At the Tower showing, tuffs are variably silica flooded with either white to grey chalcedonic quartz or massive clear quartz. Grey quartz gets its colour from up to 10% fine pin-prick size pyrite disseminated inside veining. Silicification can be pervasive or localized along fractures and drusy cavity fillings. Pyritic quartz veins have returned assays grading up to 505 ppb Au with fifteen samples greater than 100 ppb Au with an average of 216 ppb Au (Stewart and Gale, 2006).

The Brookmere zone comprises several extensive vein systems that are exposed in proximity to, and aligned subparallel to, the syenite dykes in the southwest region of the property. One vein system, which was thoroughly sampled in 2006, has been traced for 200m north-northwest from the southern property boundary (Stewart and Gale, 2006;

Maps 2 and 4). Veining consists of coarse, centimetre-scale cockscomb quartz coating open fractures and fault breccia. The veins are generally south-southeast striking (160°) with moderate to steep southwest dips (50 to 60°), which is different from the predominantly south-southwest striking veins at the Mik and Line 6 zones and therefore do not appear to be the southwestern extent of those zones. While some of these veins appear to have the characteristics of epithermal veins, and seem to be associated with extensively developed silica alteration, the assays returned no significant gold values.

3.0 METHODOLOGY

3.1 Sampling and Analytical Procedure

Soil sample grids are chained in using a hip chain and compass. Corrections for topography during grid sampling are only applied where changes in the topography are extreme. Soil sample locations were recorded using a hand held GPS unit where tree cover and vegetation permit. Where GPS coverage is insufficient, sample locations are approximated based on previous GPS points taken and hip chain and compass measurements.

Auger soil samples are collected using a gas-powered auger to penetrate the soil horizon to a depth closer to bedrock (typically 20 to 90 cm in B/C or C horizons). The augering process is commonly interrupted by cobbles and pebbles and therefore bedrock is not often encountered. Auger-associated surface soil samples are collected prior to augering or collected immediately adjacent to the auger sample site. All surface soil samples are collected from the B-horizon with a shovel, whereas soil auger samples are collected as composite material from the B and C horizons. Sample tags are marked with easting and northing grid coordinates for local grid samples and the last 4 digits of the UTM easting and 5 digits of the UTM northing for regional grid samples. Individual sample weight is typically about 0.5 kg and stored in brown kraft bags.

Each rock grab (prospecting) sample location is marked with a representative sample, wrapped with orange flagging tape that contains the assigned sample number. Individual float and rock samples weigh no more than 5 kg. Rock samples were collected such that the specimens had little to no weathered surface or lichen and represented the overall characteristics of mineralization from that location. In places where rock material is rare or difficult to liberate, chip samples are taken to represent the zone of interest. Channel samples are taken using a chisel and hammer, across the previously laid out intervals. Vein-only chip samples were also collected where enough vein material was available in order to ascertain whether gold mineralization is present in wall rock, vein or both.

Acme Analytical Laboratories of Vancouver, BC, was contracted to conduct sample preparation and analysis of all samples collected during the program. All samples were submitted for a 36-element ICP-MS aqua regia analysis (Acme: 1DX) and a 15g sample

split from the prepared pulp was used for the analysis. For rock samples that returned greater than 100 ppb gold, the pulp was reanalyzed using the Au fire assay with ES (Acme: Group 6). A detailed explanation of analytical techniques and procedures has been compiled in Appendix I. The certificates for the gold standards used for the quality control procedures are also included in Appendix I.

3.2 Quality assurance and quality control procedures

Quality assurance/quality control (QA/QC) for the 2010 field program comprised inserting blanks, field duplicates, and standards in the sample stream sent to Acme Analytical Laboratories in Vancouver, BC. Blank material comprising of garden brick chips was inserted to monitor for potential contamination during analysis. Field duplicates (FD) were inserted and preparatory duplicates (RE) and pulp duplicates (DUP) were conducted to measure reproducibility and precision of data. Field duplicates were collected from the same site or immediately adjacent to the original sample (OD). "Prep" duplicates (RE) comprise pulp material made up from the remaining coarse reject (reject material from the primary crushing stage). Pulp duplicates (DUP) are samples that have been analyzed a second time using the original pulp. For gold standards, pre-packaged 50 g packets labelled 61Pb and 62Pa were purchased from Analytical Solutions Ltd. and used to assess the laboratory precision and accuracy. These standards represent homogenized material that contain known concentrations of gold and silver (Appendix I). Results for standard material analyzed using Group 1DX are used only as a preliminary filter for spurious values due to the inability of this method (aqua regia) to completely digest the pulp material. If a standard was also requested for Group 6 analysis, that value would supersede the 1DX value as a pass-fail criterion for the Group 6 internal batch. However, if the gold standard's Group 1DX results fall significantly outside of the established third standard deviation confidence levels, the internal batch was requested for a rerun. Also a failure would occur if two or more values from the same analytical batch fall outside of the ±2 SD lines.

Table 2. QA/QC Samples Submitted for 2010 Surface Sampling.

Sample Type	No. of Samples
Blanks	
Rocks 1DX	3
Rocks Group 3B	
Analytical Standards: 61PB, 62PA	
Rocks 1DX	3
Rocks Group 3B	
Field Duplicates (FD)	
Rocks 1DX	1
Soils 1DX	0
Prep Duplicates (REP)	
Soils 1DX	20
Rocks 1DX	2
Pulp Duplicates (DUP)	
Rocks 1DX	1

4.0 WORK PROGRAM

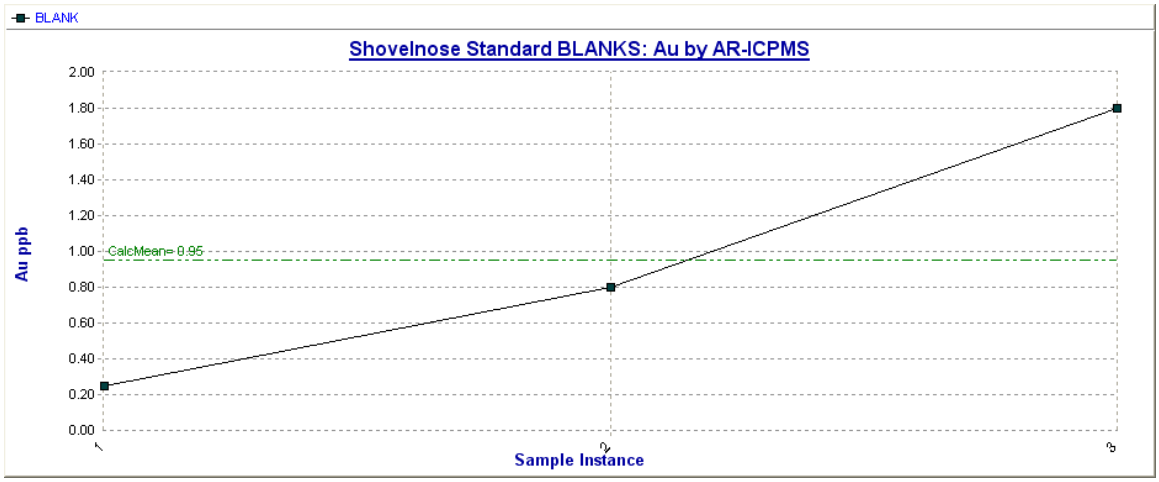
4.1 Introduction

Based on results from 2007 to 2009, ground geophysics, prospecting, fill-in and auger soil sampling were carried out on the Shovelnose property during the 2010 field season. In total, 43 rock and 363 soil samples were collected and 23.2 line kilometres of gridding and ground magnetometer surveys were completed. Section 4.2 will provide a summary of the QA/QC data, sections 4.3 to 4.5 will discuss the details of the soil sampling, prospecting, and ground magnetometer surveys, respectively. Sample descriptions with summary results are presented in Appendix II. Lab certificates showing complete results for geochemical analyses for soil and rock samples are included in Appendix III.

4.2 Quality Assurance – Quality Control Data

A total of 3 blanks were inserted into the surface rock samples for the AR-ICP-MS (Group 1DX) method. Blank samples returned values from 0.25 to 1.8 ppb Au (Figure 3), which indicates no contamination. No blank standards were run by the fire assay method.

Figure 3. Blank Assay Results for Surface Rock Samples using ICP-MS (Group 1DX), Gold.



All gold standard material was processed with Group 1DX aqua regia-ICPMS. Figures 4 and 5 are control charts that illustrate the gold content for the respective standards and four other lines that represent ±2 standard deviation (SD) (~ 95% confidence interval) and ±3 standard deviations from the mean (~90% confidence interval). None of the standard results plotted outside the 2 SD line therefore no failures were recorded.

Figure 4. Control Chart from Standard Material 61Pb for Surface Rock Samples using AR-ICPMS (Group 1DX), Gold.

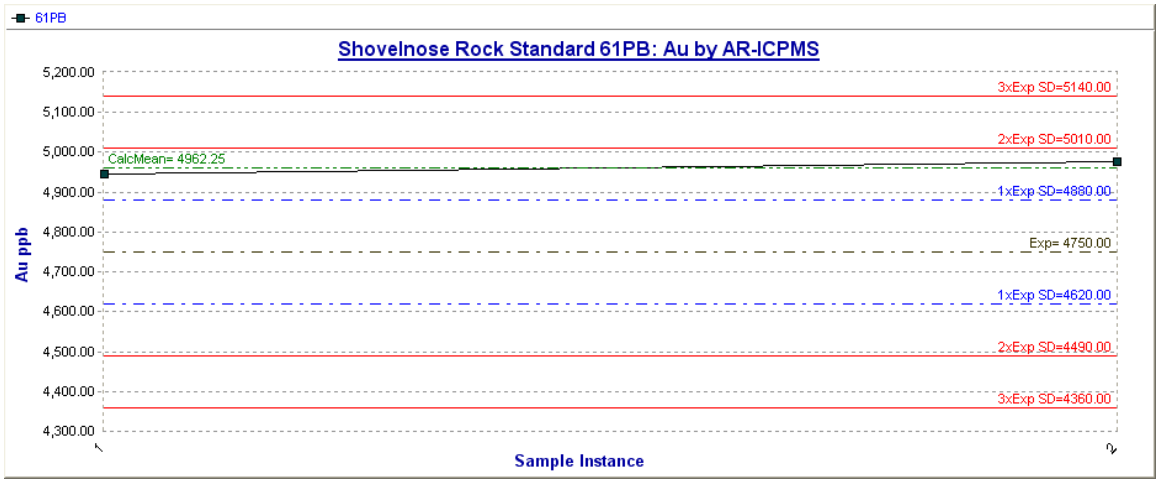
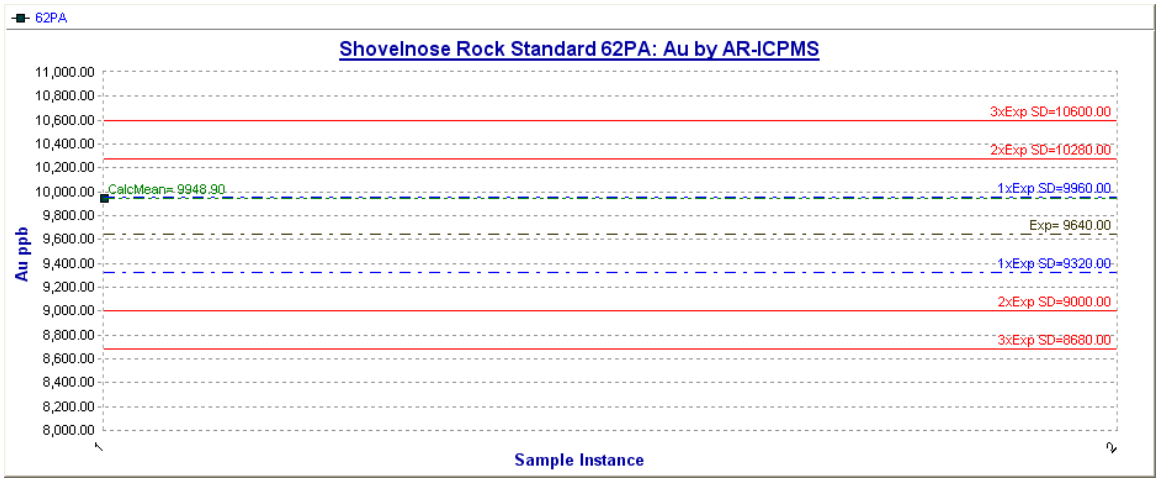


Figure 5. Control Chart from Standard Material 62Pa for Surface Rock Samples using AR-ICPMS (Group 1DX), Gold.



For rock samples that returned greater than 100 ppb gold, the pulp was reanalyzed using the gold fire assay with ES (Acme: Group 6). Two gold standards were submitted as part of the QA/QC procedure and figures 10 and 11 show that none of the standard results plotted outside the 2 SD line and therefore no failures were recorded.

Figure 6. Control Chart from Standard Material 61Pb for Surface Rock Samples using ICP-ES (Group 6), Gold.

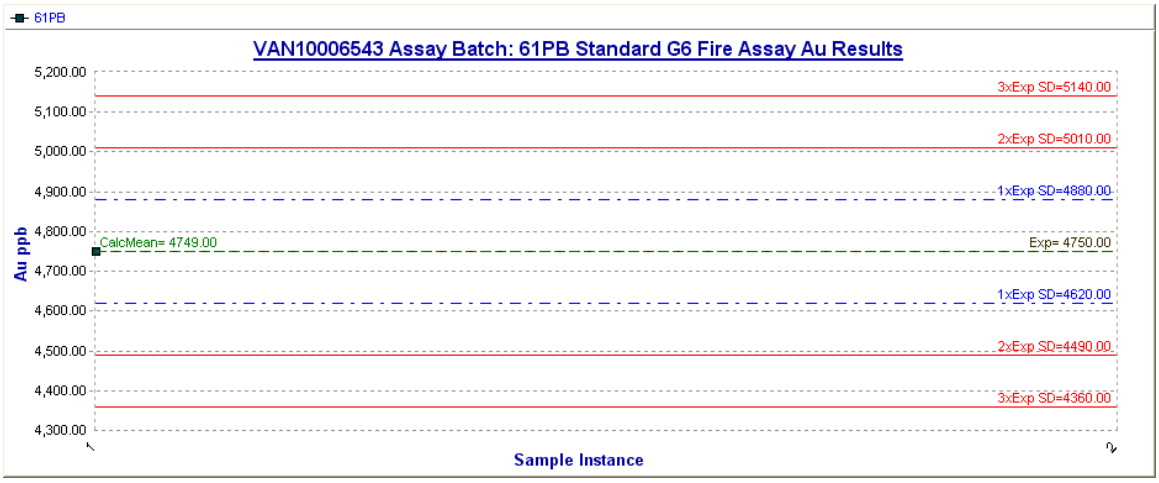
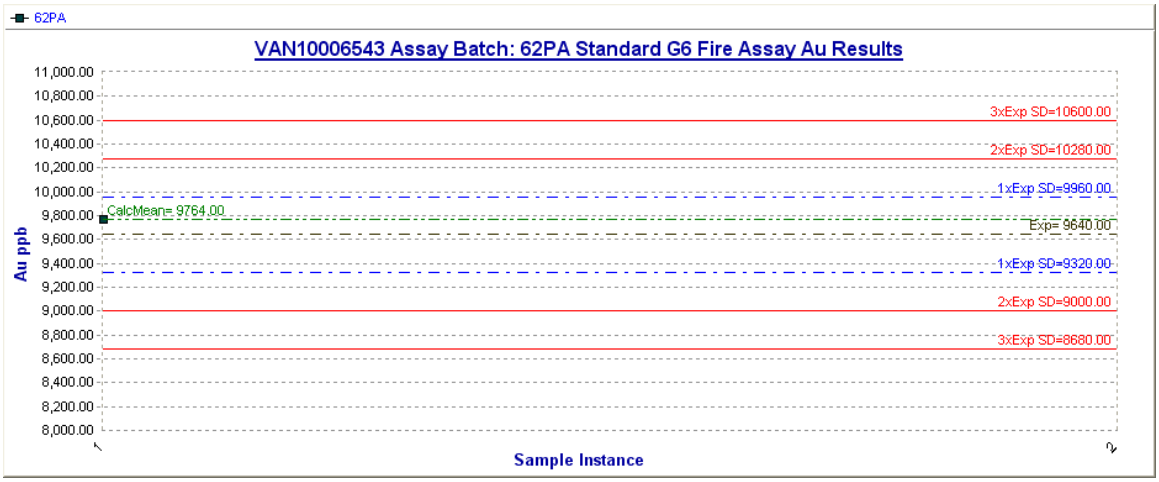


Figure 7. Control Chart from Standard Material 62Pa for Surface Rock Samples using ICP-ES (Group 6), Gold.



No field duplicates were collected for soil samples and only one rock field duplicate (FD) was collected and submitted for analysis. Twenty soil and two rock samples were analyzed as prep duplicates (RE) and one rock sample was reanalyzed as pulp duplicates (DUP). Table 3 and Figure 8 show the comparisons of sample results between the original and duplicate soil samples and Table 4 shows the duplicate pair results for rock samples. In general, soil prep duplicates (RE) indicate moderately to significantly different gold results from the original samples. This variability is likely attributed to the heterogeneity of the soil material collected from the original site. On the other hand, the FD, RE, and DUP pairs for rock samples indicate consistent gold results between the original and duplicate samples (Figures 9 to 11).

Table 3. Lab Prep Duplicate (RE) Assay Results for Soil Samples using ICP-MS (Group 1DX), Gold.

Sample	Original Au (ppb)	Prep Duplicate Au (ppb)	% Difference
RE 73977	12.4	23.5	-47%
RE 77834	8.3	16.9	-51%
RE 77863	2	2.9	-31%
RE 80710	6.3	1.2	425%
RE 80729	0.8	0.6	33%
RE 80754	2.8	4.2	-33%
RE 80779	2.9	2.1	38%
RE 80787	46.4	5.7	714%
RE 80813	3.7	2.4	54%
RE 80831	0.8	0.8	0%
RE 80854	4.2	1.2	250%
RE 80864	149.5	125.2	19%
RE 80886	49.5	31.5	57%
RE 80911	0.25	0.25	0%
RE 80929	4.3	8.4	-49%
RE 80955	11.3	10.2	11%
RE 81003	2.9	1.7	71%
RE 81035	16.8	6.4	163%
RE 81040	14.3	10.4	38%
RE 81055	9	5.2	73%

Figure 8. Comparison Chart of Prep Duplicates of Soil Samples using AR-ICPMS (Group 1DX), Gold.

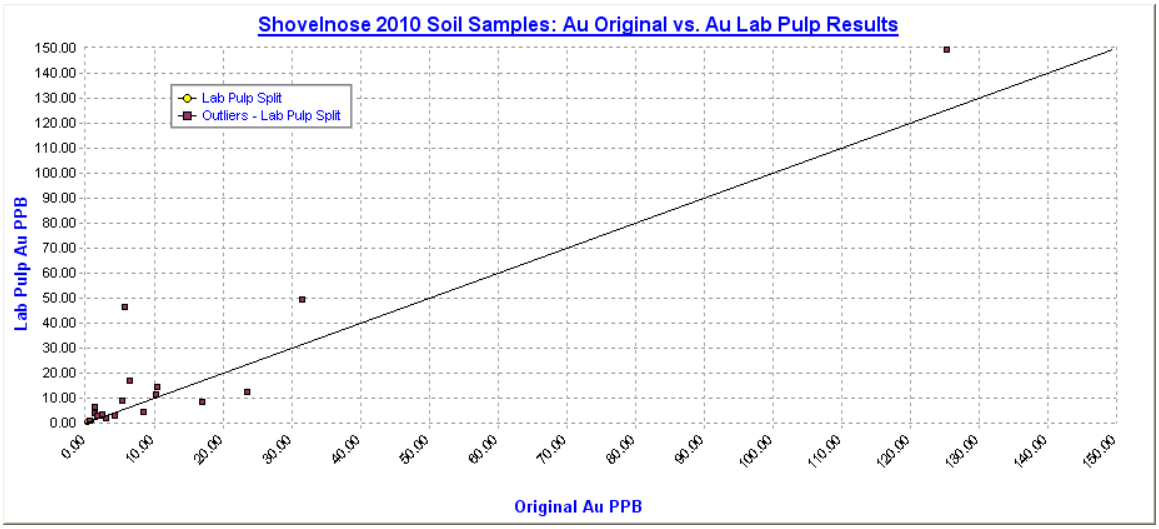


Table 4. Field (FD), Prep Duplicate (REP) and Pulp Duplicate (DUP) Assay Results for Rock Samples using ICP-MS (Group 1DX), Gold.

Sample	QC Category	Original Sample	Repeat Au (ppb)	Original Au (ppb)	% Difference
FD77960	FD	77961	0.25	0.25	0%
RE 77873	LABCHCK	77873	2.4	3.1	-23%
RE 81064	LABCHCK	81064	8.9	7.7	16%
DUP 81059	LAB_DUP	81059	0.25	0.25	0%

Figure 9. Comparison Chart of Field Duplicate (FD) of Rock Sample using AR-ICPMS (Group 1DX), Gold.

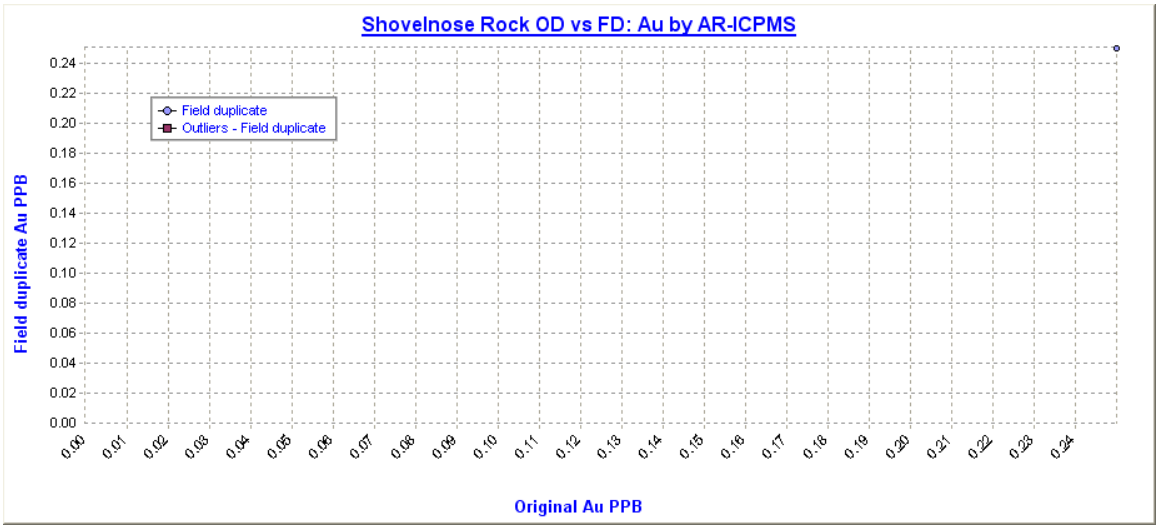


Figure 10. Comparison Chart of Prep Duplicate (RE) of Rock Sample using AR-ICPMS (Group 1DX), Gold.

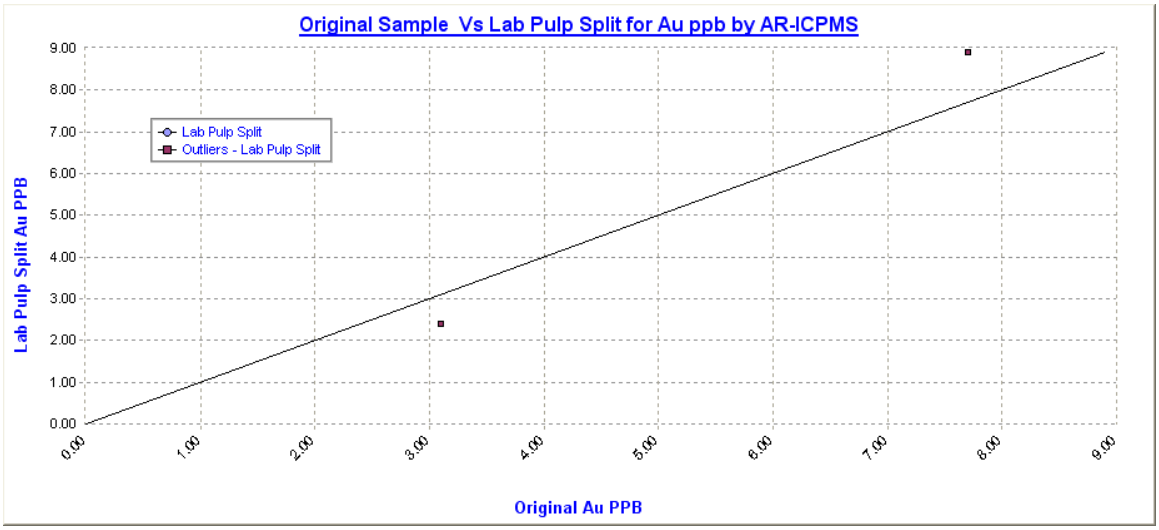
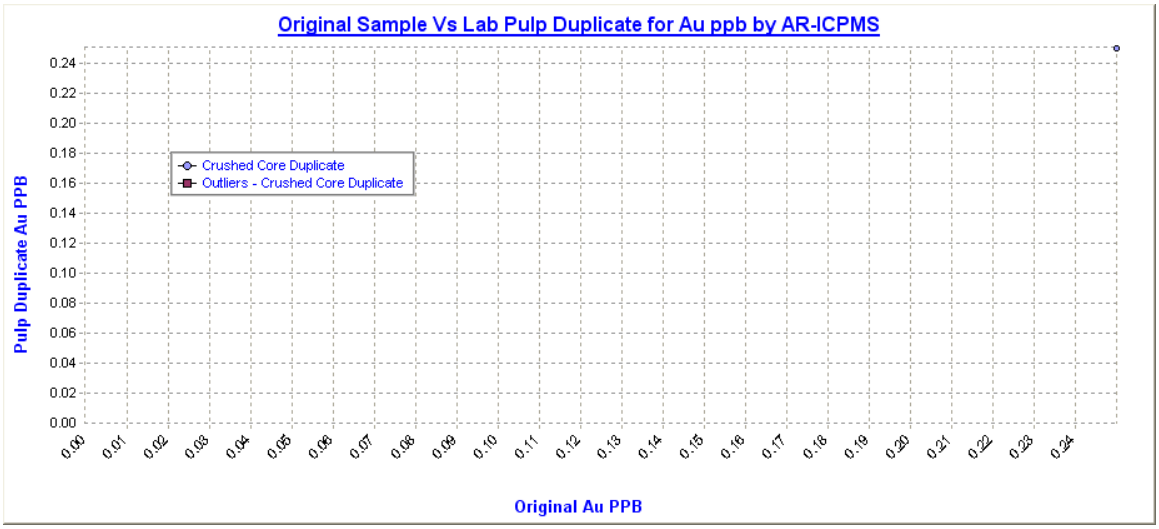


Figure 11. Comparison Chart of Pulp Duplicate (DUP) of Rock Sample using AR-ICPMS (Group 1DX), Gold.



4.3 Soil Sampling

A total of 363 soil samples were collected for ICP multi-element analysis, including 89 auger hole composites, 83 auger-associated "twin" samples, 188 in-fill samples, and 3 repeat check samples of previous anomalies (Maps 3 and 4, Table 5). Of these samples, only 352 (267 surface soil and 85 auger soil) samples were processed. Of the 85 auger samples, only 81 have a corresponding surface sample. The purpose of auger sampling is to test the soils from a deeper soil horizon (B-C-horizon), closer to bedrock, to determine if it is a more effective geochemical method over traditional soil sampling. Soil samples collected as part of the in-fill program were focused around the Line 6 and Mik zones. Follow up soil sample checks on previous soil sample anomalies were conducted in the central shovelnose area ("Anomaly D" and vicinity).

Table 5. Summary of 2010 surface and auger soil samples collected in the Mik and Line 6 zones. The number of samples actually processed is indicated in brackets.

Type	Auger	Surface	Surface-Auger Pairs	Infill
Mik zone	66 (63)	62 (57)	60	107
Line 6 zone	23 (22)	21 (19)	21	81
Repeat Checks	n/a	3	n/a	n/a

Auger sampling at Mik consists of drilling 66 holes and collecting 128 soil samples of auger hole composites and "twin" surface soil samples. In addition, 107 soil samples have been collected as infill to the existing soil sample grid. At Line 6, auger sampling at consist of drilling 23 holes and collecting 44 soil samples of auger hole composites and

N

650,000 mE
655,000 mE
660,000 mE
665,000 mE

5,530,000 mN
5,525,000 mN
5,520,000 mN
5,515,000 mN

See Map 4
Line 6
Tower
FMN
MIK
Brookmere

77956
77955
77958
81059
81060
77959
80985
80986
77960
77962

2010 Soil Sample Location*
2010 Soil Auger Sample Location*
2010 Rock Trench Sample Location*
2010 Rock Sample Location
Historic Soil Sample Location
Historic Rock Sample Location
Historic Rock Trench Sample Location
Detailed Map Location
Gold Showing
Property Outline

*2010 Samples labelled with sample number

Map 3. Shovelnose Property
Property Sample Locations

Date: March 2011

Author: YB

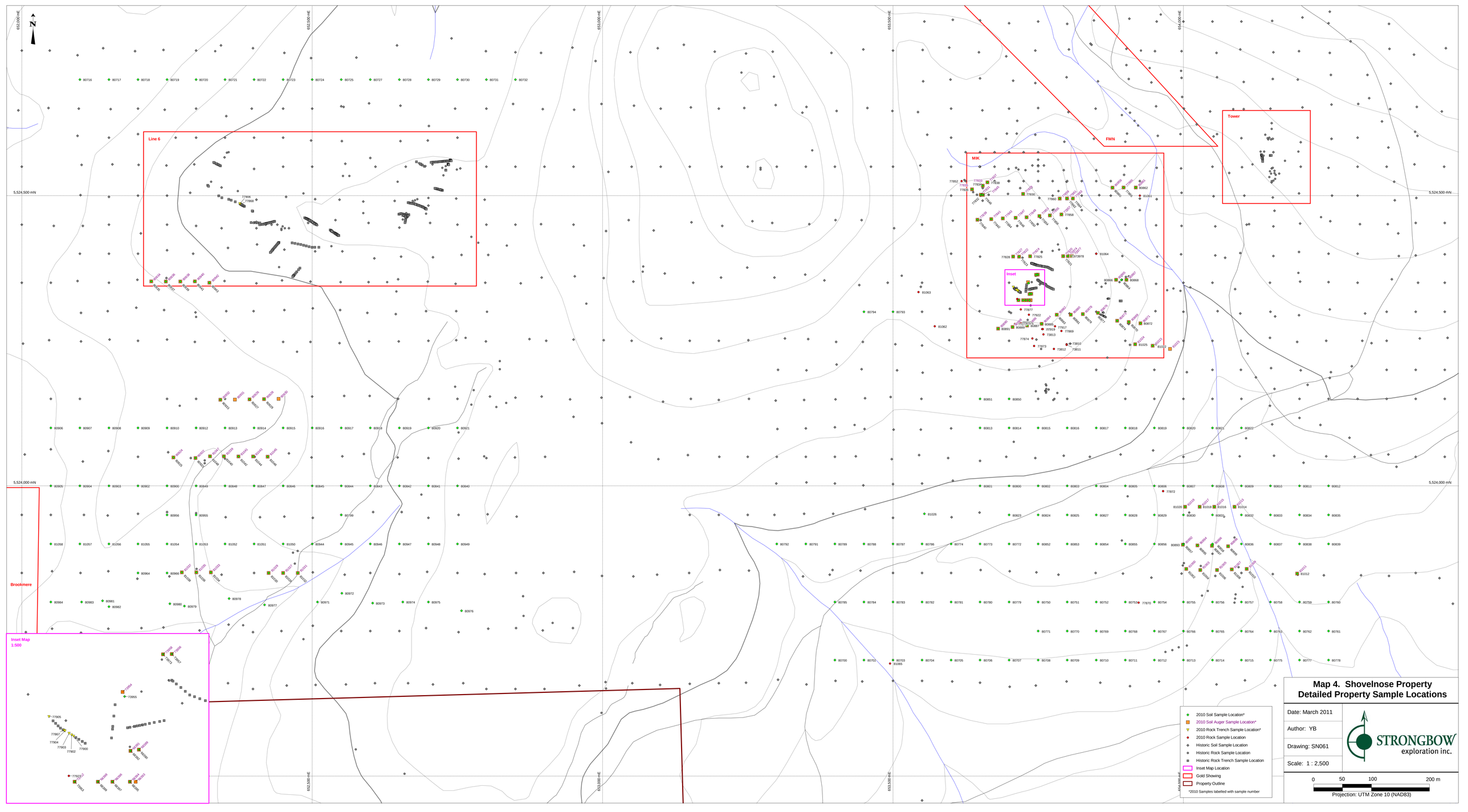
Drawing: SN060

Scale: 1 : 20,000

STRONGBOW exploration inc.

0 0.4 0.8 1.6 km

Projection: UTM Zone 10 (NAD83)



Map 4. Shovelnose Property
Detailed Property Sample Locations

Date: March 2011

Author: YB

Drawing: SN061

Scale: 1 : 2,500

STRONGBOW exploration inc.

0 50 100 200 m

Projection: UTM Zone 10 (NAD83)

- 2010 Soil Sample Location*
- 2010 Soil Auger Sample Location*
- 2010 Rock Trench Sample Location*
- 2010 Rock Sample Location
- Historic Soil Sample Location
- Historic Rock Sample Location
- Historic Rock Trench Sample Location
- Inset Map Location
- Gold Showing
- Property Outline

*2010 Samples labelled with sample number.

"twin" surface soils samples. Infill sampling comprising 81 soil samples is also conducted within the existing soil sample grid. Geochemical results for surface soil samples collected thus far on the property are calculated into breakdowns of the 70th, 90th, 95th and greater than 97.5th percentiles and shown as a gold thematic map (Map 5, Table 6). Results from 2010 surface soil sampling returned 25 anomalous soil samples (Line 6 – 6 samples, Mik – 19 samples) with greater than 17.16 ppb Au (>97.5th percentile), up to 125.2 ppb Au. To evaluate the characteristics of soil auger sampling, the auger samples are separated from the main soil data and equivalent percentiles are calculated (Table 6). Based on the percentile breakdowns of this subset, 3 samples from Mik returned greater than 59.02 ppb Au (>97.5th percentile; Map 6). In general, the percentile values from the auger sample subset indicate higher values as these samples are primarily collected from areas of known gold mineralization, whereas the soil subset represents samples collected from the entire property.

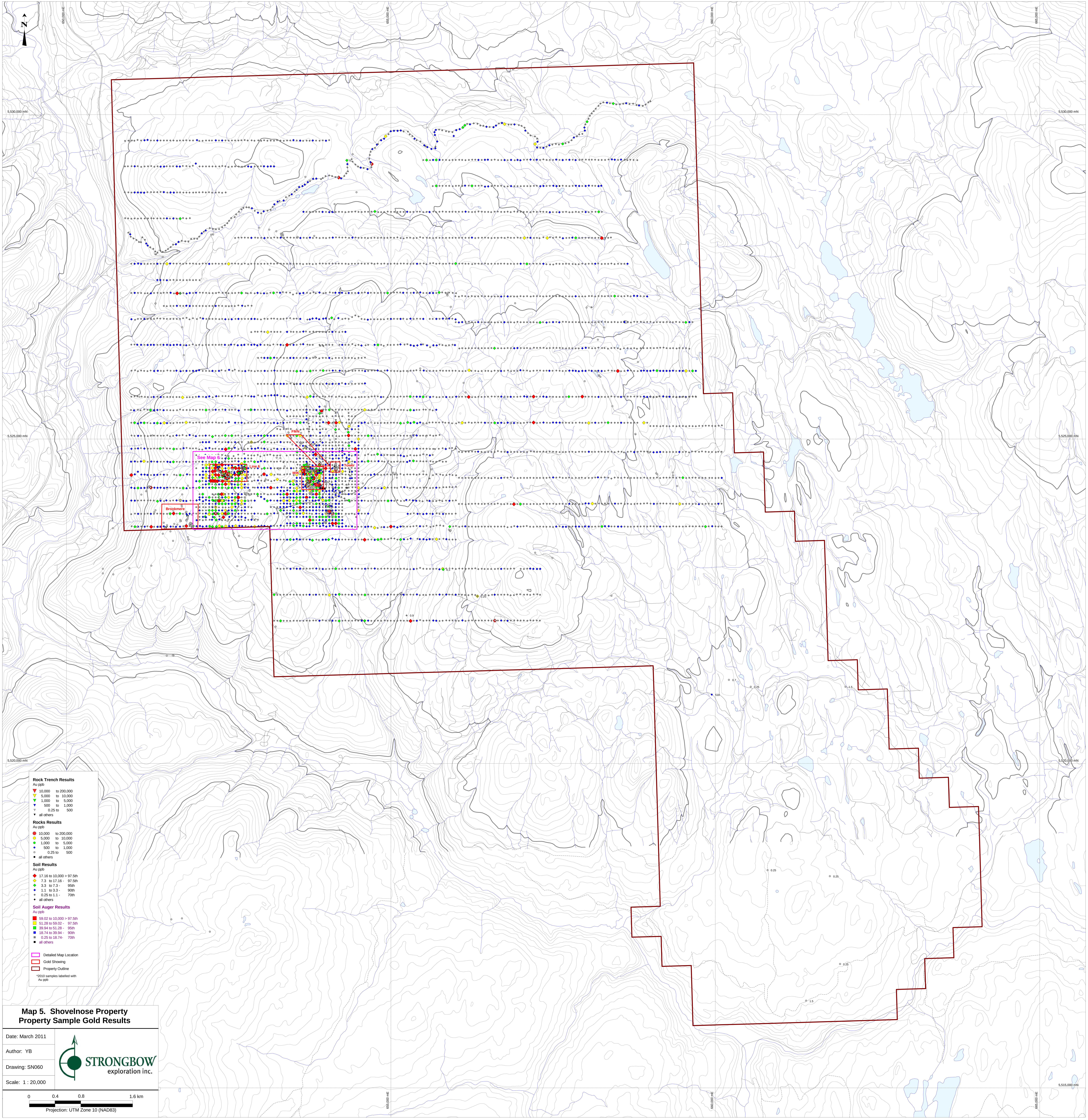
Table 6. Percentile calculation of surface and auger soil samples for Au, Ag, As, Bi, Cu, Hg, Mo, Pb, Sb, and Zn. Nd = not detected.

Type	Au (ppb)	Ag (ppm)	As (ppm)	Bi (ppm)	Cu (ppm)	Hg (ppm)	Mo (ppm)	Pb (ppm)	Sb (ppm)	Zn (ppm)
Surface (2006 to 2010 samples)										
70th	1.1	0.05	3.1	Nd	14.5	0.02	0.6	6.9	0.3	70
90th	3.3	0.1	4.7	Nd	23.6	0.04	0.9	8.5	0.5	93
95th	7.3	0.2	5.9	Nd	31	0.05	1.2	9.8	0.6	108
97.5th	17.16	0.3	7.76	Nd	40.32	0.07	1.6	11.2	0.8	127.58
Auger (2010 samples)										
70th	18.74	0.7	6.1	Nd	21.64	0.03	0.8	8.88	0.5	70.4
90th	39.94	1.2	7.42	Nd	27.74	0.04	1.38	11.06	0.56	105
95th	51.28	1.38	7.98	Nd	31	0.05	2	12.68	0.6	113.8
97.5th	59.02	1.49	9.01	Nd	31.55	0.06	3.16	13.48	0.6	120.5

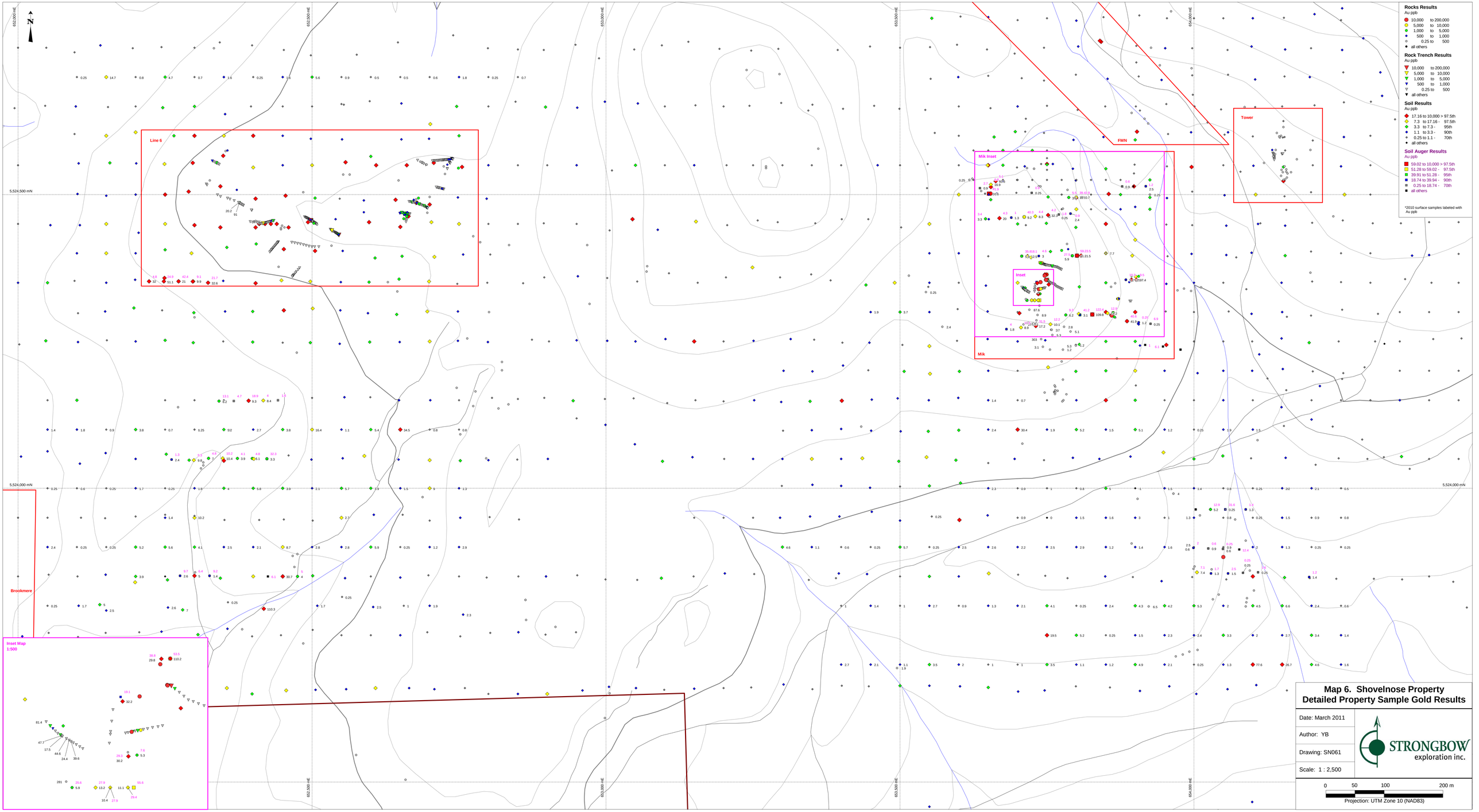
Overall, the results of auger sampling have been mixed:

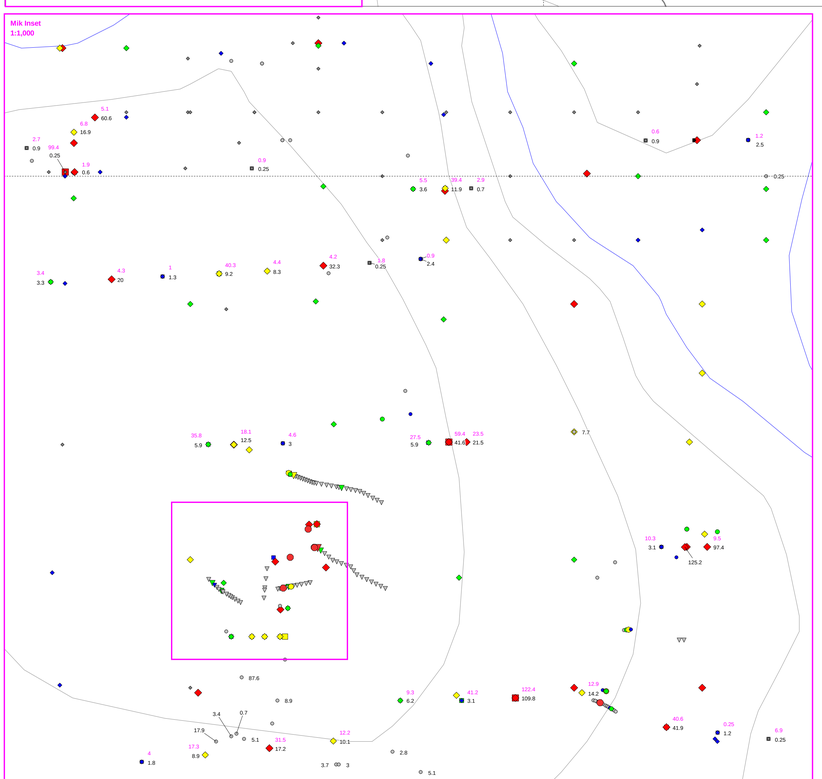
- Some previous surface gold anomalies (prior to 2010) tested with auger sampling did not repeat those results
- Gold anomalies from previous and 2010 surface samples have been confirmed at depth (more often with a higher value in the auger sample than the surface anomaly)
- New anomalies have been detected by the auger despite a weakly to not anomalous surface twin sample.

A comparison of gold and pathfinder results from 81 pairs of auger and surface soil samples from Mik and Line 6 indicate that Au (Figure 12), Ag, As (Figure 13), Cu (Figure 14), Pb and Sb show higher in concentrations in auger soil material and Mo (Figure 15) and Zn show higher values in surface soil material. As the percentile calculation is not equal for both auger and surface soil samples, this comparison is made



N
650,000 mE
655,000 mE
660,000 mE
665,000 mE
5,530,000 mN
5,525,000 mN
5,520,000 mN
5,515,000 mN
See Map 6
FMN
Mik
Brookmere
Rock Trench Results
Au ppb
10,000 to 200,000
5,000 to 10,000
1,000 to 5,000
500 to 1,000
0.25 to 500
all others
Rocks Results
Au ppb
10,000 to 200,000
5,000 to 10,000
1,000 to 5,000
500 to 1,000
0.25 to 500
all others
Soil Results
Au ppb
17.16 to 10,000 > 97.5th
7.3 to 17.16 - 97.5th
3.3 to 7.3 - 95th
1.1 to 3.3 - 90th
0.25 to 1.1 - 70th
all others
Soil Auger Results
Au ppb
59.02 to 10,000 > 97.5th
51.28 to 59.02 - 97.5th
39.94 to 51.28 - 95th
18.74 to 39.94 - 90th
0.25 to 18.74- 70th
all others
Detailed Map Location
Gold Showing
Property Outline
*2010 samples labelled with Au ppb
Map 5. Shovelnose Property
Property Sample Gold Results
Date: March 2011
Author: YB
Drawing: SN060
Scale: 1 : 20,000
STRONGBOW
exploration inc.
0 0.4 0.8 1.6 km
Projection: UTM Zone 10 (NAD83)





Map 6. Shovelnose Property
Detailed Property Sample Gold Results

Date: March 2011

Author: YB

Drawing: SN061

Scale: 1 : 2,500

STRONGBOW exploration inc.

0 50 100 200 m

Projection: UTM Zone 10 (NAD83)

based on the actual value of the results (on a 1:1 basis) and not on the percentile breakdown categories (70th, 90th, 95th, and 97.5th).

Figure 12. Comparison of gold values (ppb) between 2010 auger and surface sample pairs. Dashed line indicates the 1:1 ratio between auger and surface soil values.

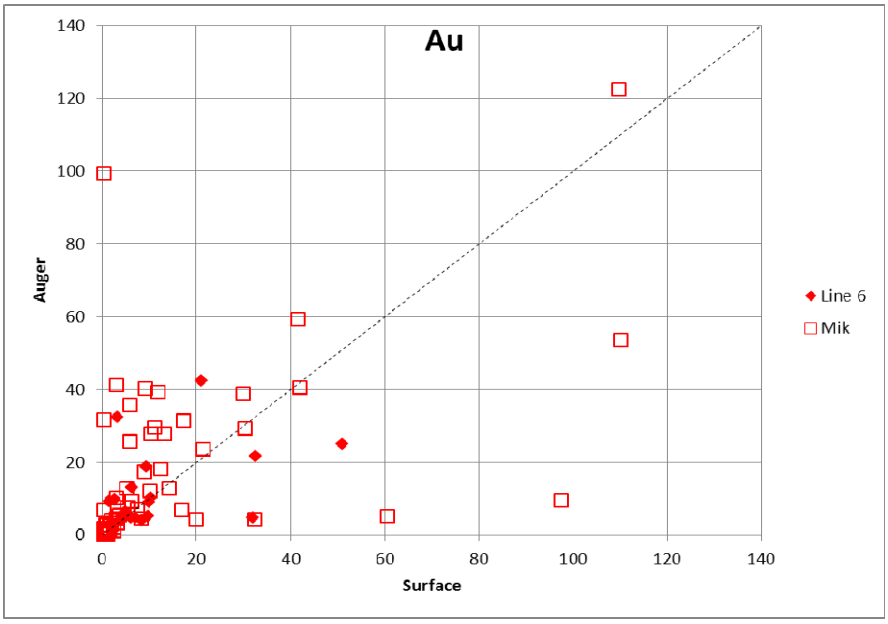


Figure 13. Comparison of arsenic values (ppm) between 2010 auger and surface sample pairs. Dashed line indicates the 1:1 ratio between auger and surface soil values.

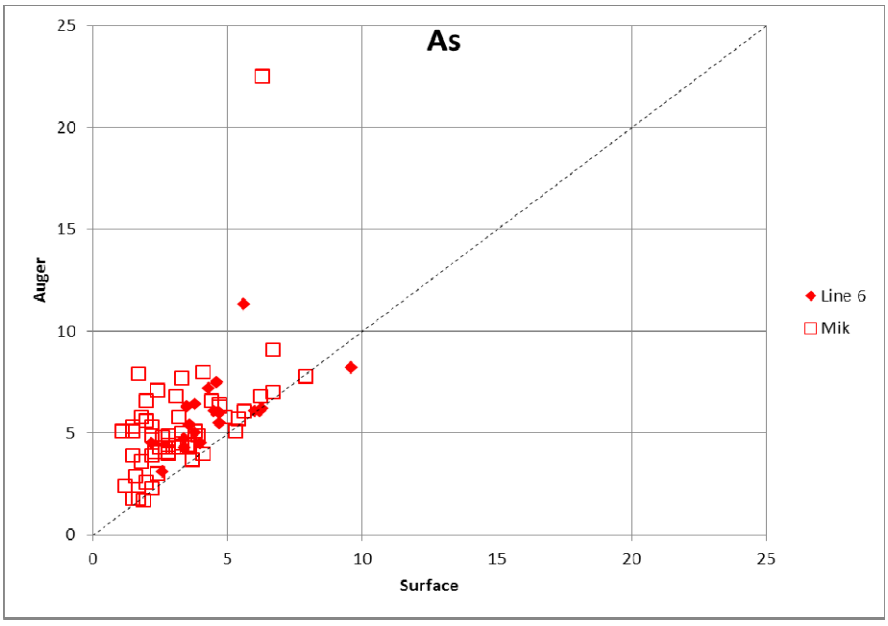


Figure 14. Comparison of copper values (ppm) between 2010 auger and surface sample pairs. Dashed line indicates the 1:1 ratio between auger and surface soil values.

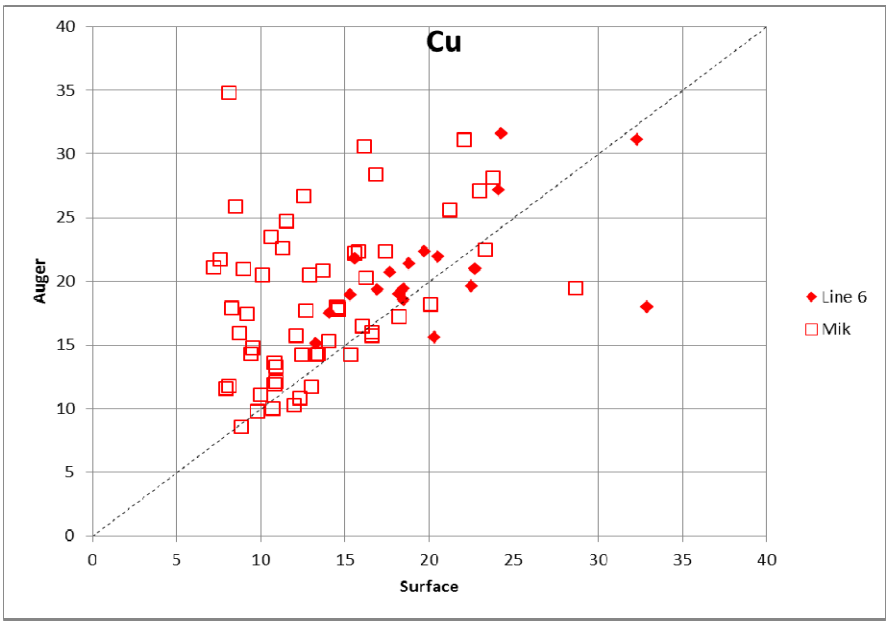
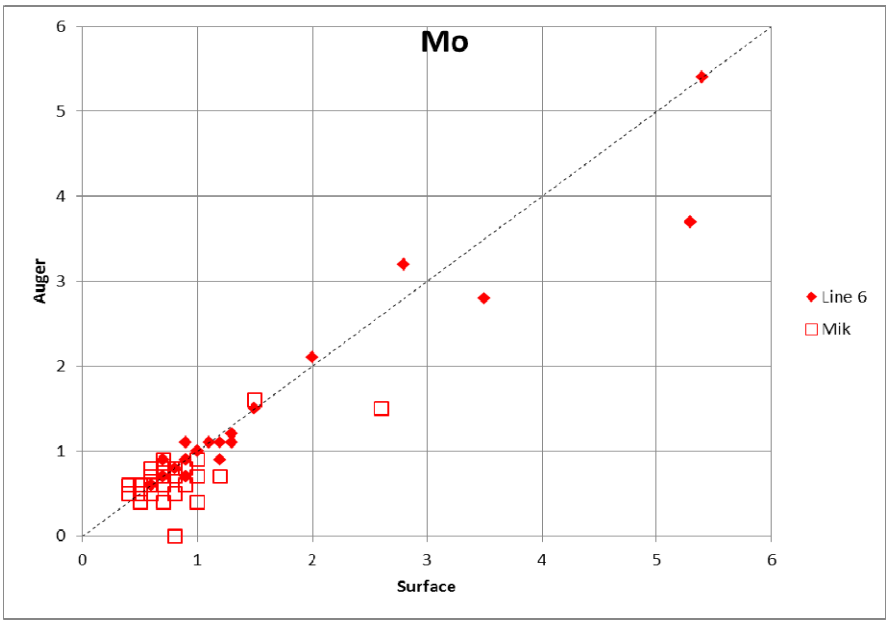


Figure 15. Comparison of molybdenum values (ppm) between 2010 auger and surface sample pairs. Dashed line indicates the 1:1 ratio between auger and surface soil values.



Gold and pathfinder values do not increase with depth of hole for auger samples at both the Mik and Line 6 zones (Figures 16 to 19). Molybdenum values from Line 6 do indicate anomalous values near the depth of 80 cm (Figure 19); however, these samples are all taken along the same line, spaced 25m apart.

Figure 16. Gold values (ppb) vs. depth (m) for 2010 auger samples.

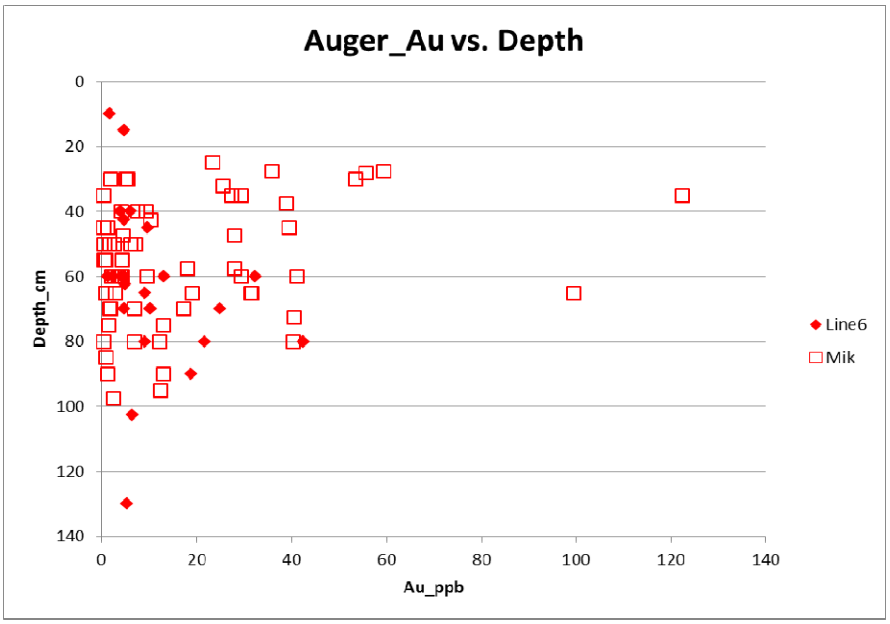


Figure 17. Arsenic values (ppm) vs. depth (m) for 2010 auger samples.

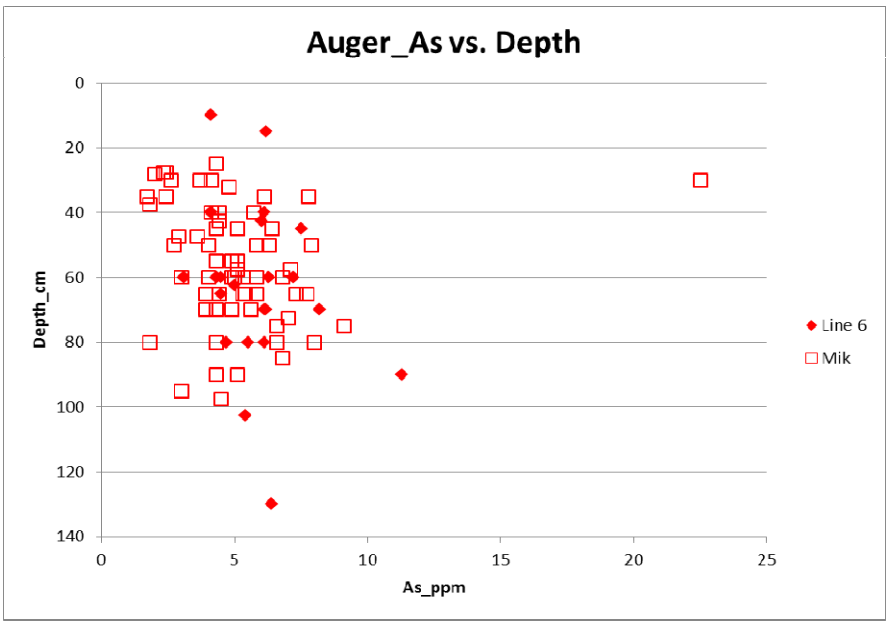


Figure 18. Copper values (ppm) vs. depth (m) for 2010 auger samples.

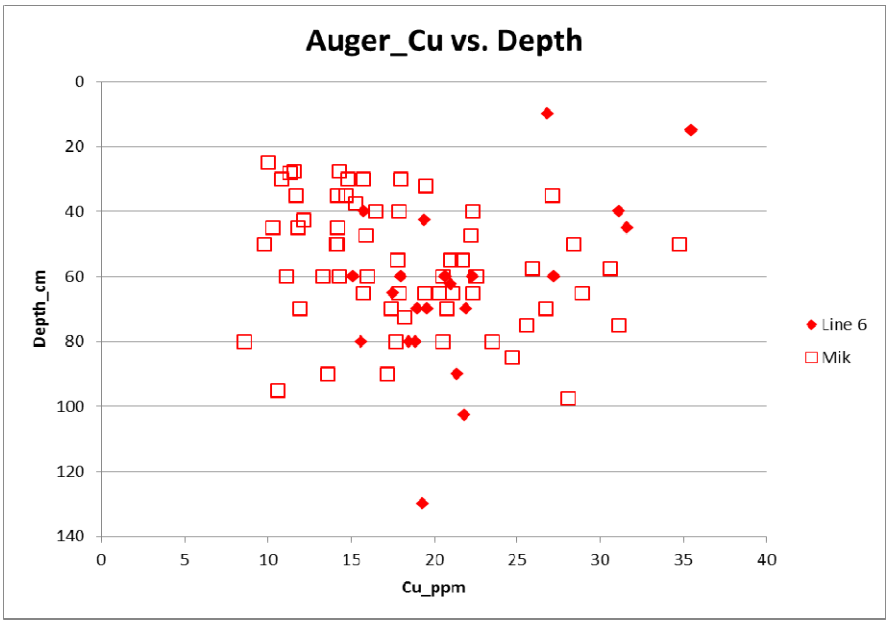
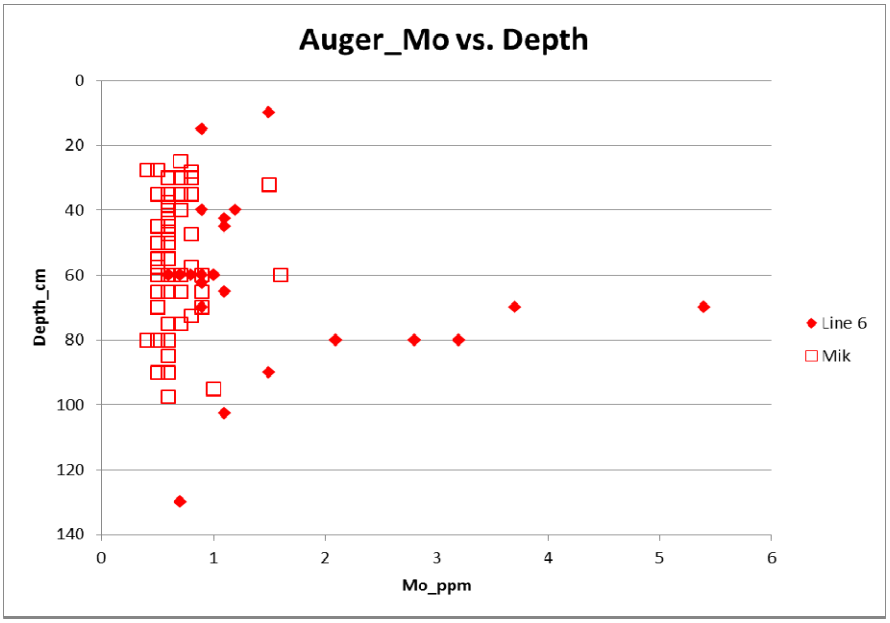


Figure 19. Molybdenum values (ppm) vs. depth (m) for 2010 auger samples.



In-fill surface soil sampling in both the Mik and L6 has identified some new anomalies (Map 5):

- Southwest Line 6: a coincident gold and molybdenum anomaly has been highlighted over 100m in both auger and surface samples
- Spot or two sample (50m station) anomalies within 600m south of Line 6
- Spot or two sample anomalies in the core of the Mik zone
- 50m anomaly located 650m southeast of the Mik zone, 200m south-southeast of the 119.37 g/t Au rock sample

Repeat checks of three previous soil samples that define "Anomaly D" failed to return anomalous gold results. Sample 77955 returned 0.9 ppb Au (previously 44 ppb Au), sample 77956 returned 6.3 ppb Au (previously 17 ppb Au), and sample 77957 returned below detection values (previously 15 ppb Au). Overall, the 2010 surface soil samples did not increase the zone of mineralization for the Mik or Line 6 showings.

4.4 Prospecting and Rock Geochemical Sampling

Follow-up prospecting was focused primarily over the Mik and Line-6 showings and reconnaissance prospecting was completed over the 2008 "Anomaly D" and Shovelnose Southeast areas. Rock sampling included 7 trench channel samples (5 samples from MK09-XT-06 and 2 samples from L609-XT-08A), 1 trench chip sample (L609-XT-08A), 1 trench grab sample (MK09-XT-06), 26 grab samples from the Mik area and 8 grab samples from the Shovelnose Southeast area (Maps 3 and 4). The trench samples from Mik and Line 6 did not return any anomalous results and one day prospecting around the "Anomaly D" area, as a follow up to previously defined gold in soil anomaly, did not turn up anything of interest.

Prospecting at Mik led to the discovery of a new area of previously unsampled quartz in volcaniclastic boulders, subcrop and outcrop on the south side of the hill top on which the Mik trenches occur. Quartz-bearing rocks were widely dispersed over an area of approximately 90m by 90m beginning within approximately 20m of the south extent of the Mik trenches. Seventeen rock-grab samples were collected from this area and two samples returned gold values of 153.8 ppb (77874) and 416.9 ppb (77923). Sample 81065 returned 52.1 ppm arsenic and 61.9 ppm copper and sample 77852 returned 55.5 ppm copper. Approximately 500m southeast of Mik, a sample of hydrothermal breccia of an aphanitic siliceous rock (sample 77870) returned 28.5 ppm arsenic. Together with anomalous gold in soil samples and the 119.37 g/t Au sample, they define a new area of interest to the southeast of Mik.

Eight rock grab samples were collected from boulders or subcrop during three days of prospecting over the Shovelnose Southeast area. The samples were from boulders that either contained only minor amounts of quartz that appeared to be far travelled. Overall, the dominant rock type is volcaniclastic rock with minor magnetic porphyritic andesite;

very little quartz and no significant alteration were noted. The best sample collected is sample 77959, which is from a boulder that consisted entirely of quartz with chalcedonic textures and vugs, and measured approximately 25cm x 25cm x 20 cm (Photo 2). The boulder is sub-rounded and does not appear to be locally derived. The results for this sample returned 590.7 ppb Au, 26.5 ppm Sb and 10.16 ppm Hg. A brief search of the area did not reveal any other quartz bearing rock. The gold and pathfinder results of samples collected in the Southeast Shovelnose area is summarized in Table 7.

Photo 2: Shovelnose Southeast Quartz Boulder (Sample 77959).

Table 7. Summary of gold and pathfinder results from rock grab samples in the Shovelnose Southeast area.

Sample	Au_ppb	As_ppm	Cu_ppm	Hg_ppm	Mo_ppm	Pb_ppm	Sb_ppm	Zn_ppm
77958	0.7	1.6	13.5	Nd	Nd	3.9	0.2	40
77959	590.7	9.7	8.9	10.16	0.3	1.1	26.5	Nd
77960	Nd	4.3	3.3	0.14	0.1	7.3	0.3	17
77962	1.5	0.6	92	0.05	0.2	3.4	0.3	5
80985	Nd	Nd	10.4	Nd	0.1	1.4	Nd	12
80986	Nd	0.9	1.2	Nd	0.2	1.8	Nd	21
81059	Nd	5.2	107.3	0.79	0.3	5.5	1	4
81060	1.5	1.6	1.8	0.11	0.3	5.3	0.1	18

4.5 Ground Magnetometer Survey

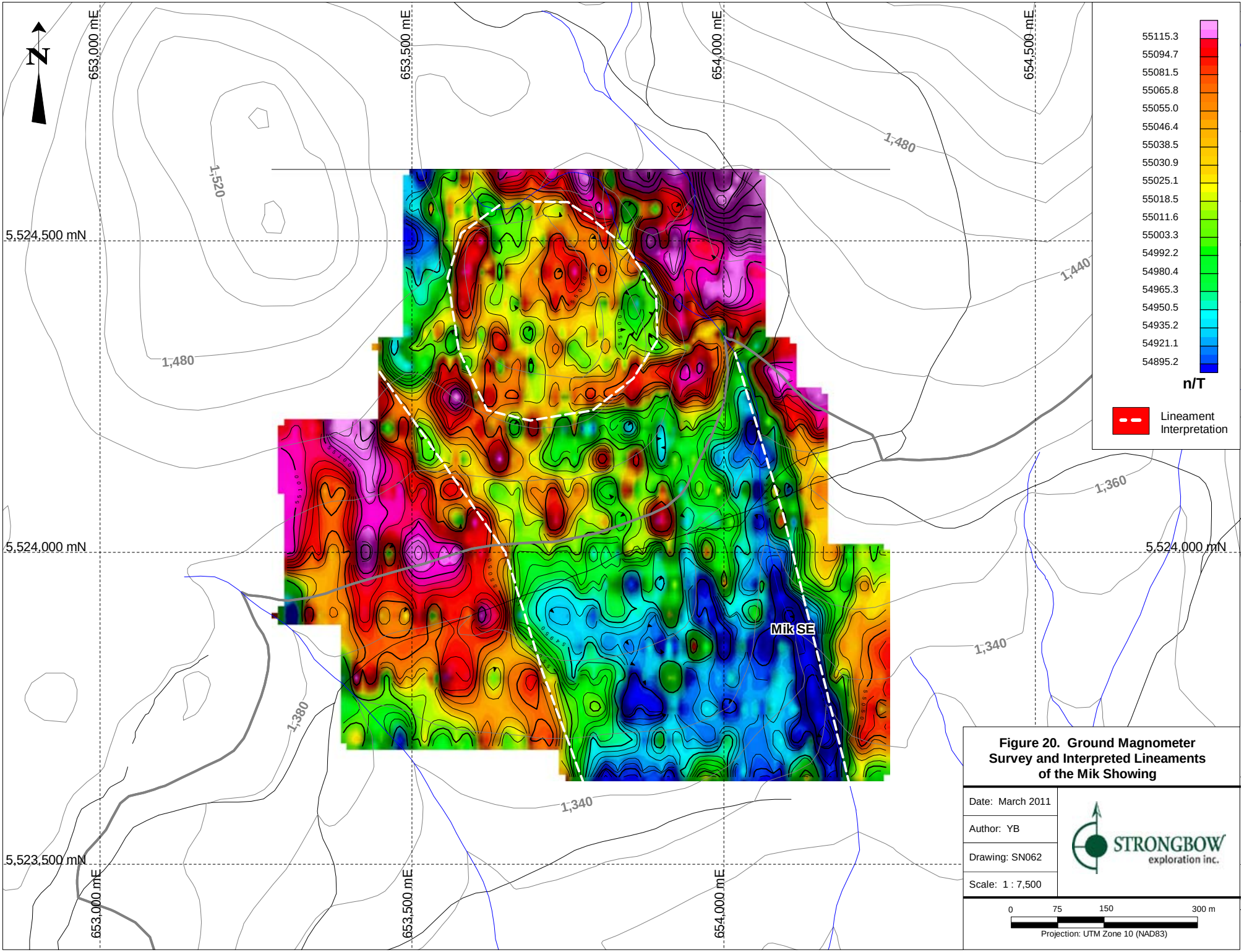
A total of 23.2 line kilometres of gridding and ground magnetic surveys were conducted over the Mik (12.2 line km) and Line 6 (11 line km) showings to resolve the detailed structures and help define potential alteration zones not evident from the 2007 regional airborne magnetic survey. The system used for the surveys was a GSM-19 Overhauser walking magnetometer system with a CDGPS system and base station. The Mik-2010 grid was established with 10m flags, 25m to 50m line spacing and 50m station spacing, whereas the Line 6-2010 grid was established with 10 m flags and 50 m stations across lines spaced at 50 to 100 m apart. Data was collected every 5m, at a frequency range of 15 to 30 kHz and a 0.1% resolution. The vertical in-phase and out-of-phase components are measured as a percentage of the total field magnetic signature. The horizontal fields are measured in two relative components, along with the absolute amplitude of the total field. The survey data were processed and compiled by Martin St. Pierre, a geophysical consultant.

A review of the magnetic data at Mik indicates a low magnetic contrast in the immediate area of the Mik trenches and soil anomalies (around 100 nT or less) (Figure 20). There is some indication of a circular feature (possible caldera?) surrounding the Mik trench and soil anomaly area. This feature coincides well with the mapped boundaries of the crystal lithic tuff with silicic lapilli fragments (PFcls). In the southeast survey area, a strong north-northwest magnetic low lineament (~54910 nT) is observed. This same magnetic low extends to the west, over the area of the 119.37 g/t gold rock sample, another sample with anomalous arsenic (28.5 ppm), and two anomalous gold in soil samples (26.7 and 77.6 ppb). A second north-northwest trending lineament is observed to transect the southwestern portion of the survey area.

The Line 6 ground magnetic survey indicates that the trenches and gold geochemical anomaly occur over a broad range of magnetic intensities, ranging from high (~55,550 nT) in east to low (~54,975 nT) in the central and west trenches (Figure 21). A prominent magnetic low to the southwest of the trenches was tested by a line of 5 soil auger holes over 100m and returned anomalous gold (<51.1 ppb) and molybdenum (<5.4 ppm) values. Gold in soil anomalies south of the trenches appear to coincide in part with a northeast-trending magnetic low (~54950 nT). This lineament is parallel to northeast-trending syenite dykes and in close proximity to the Brookmere showing near the southern boundary of the property.

5.0 INTERPRETATION AND CONCLUSIONS

The Shovelnose property is situated within the highly prospective Spences Bridge Volcanic Belt. The 2010 work consisted of infill and follow-up soil sampling, surface and auger pairs soil sampling, ground magnetometer surveys, prospecting, and rock sampling. The work was mainly focused on the central to southeast part of the property. This work


N
653,000 mE
653,500 mE
654,000 mE
654,500 mE
5,524,500 mN
5,524,000 mN
5,523,500 mN
1,520
1,480
1,480
1,440
1,360
1,340
1,380
1,340
Mik SE
55115.3
55094.7
55081.5
55065.8
55055.0
55046.4
55038.5
55030.9
55025.1
55018.5
55011.6
55003.3
54992.2
54980.4
54965.3
54950.5
54935.2
54921.1
54895.2
n/T
Lineament Interpretation
Figure 20. Ground Magnometer Survey and Interpreted Lineaments of the Mik Showing
Date: March 2011
Author: YB
Drawing: SN062
Scale: 1 : 7,500
STRONGBOW exploration inc.
0
75
150
300 m
Projection: UTM Zone 10 (NAD83)

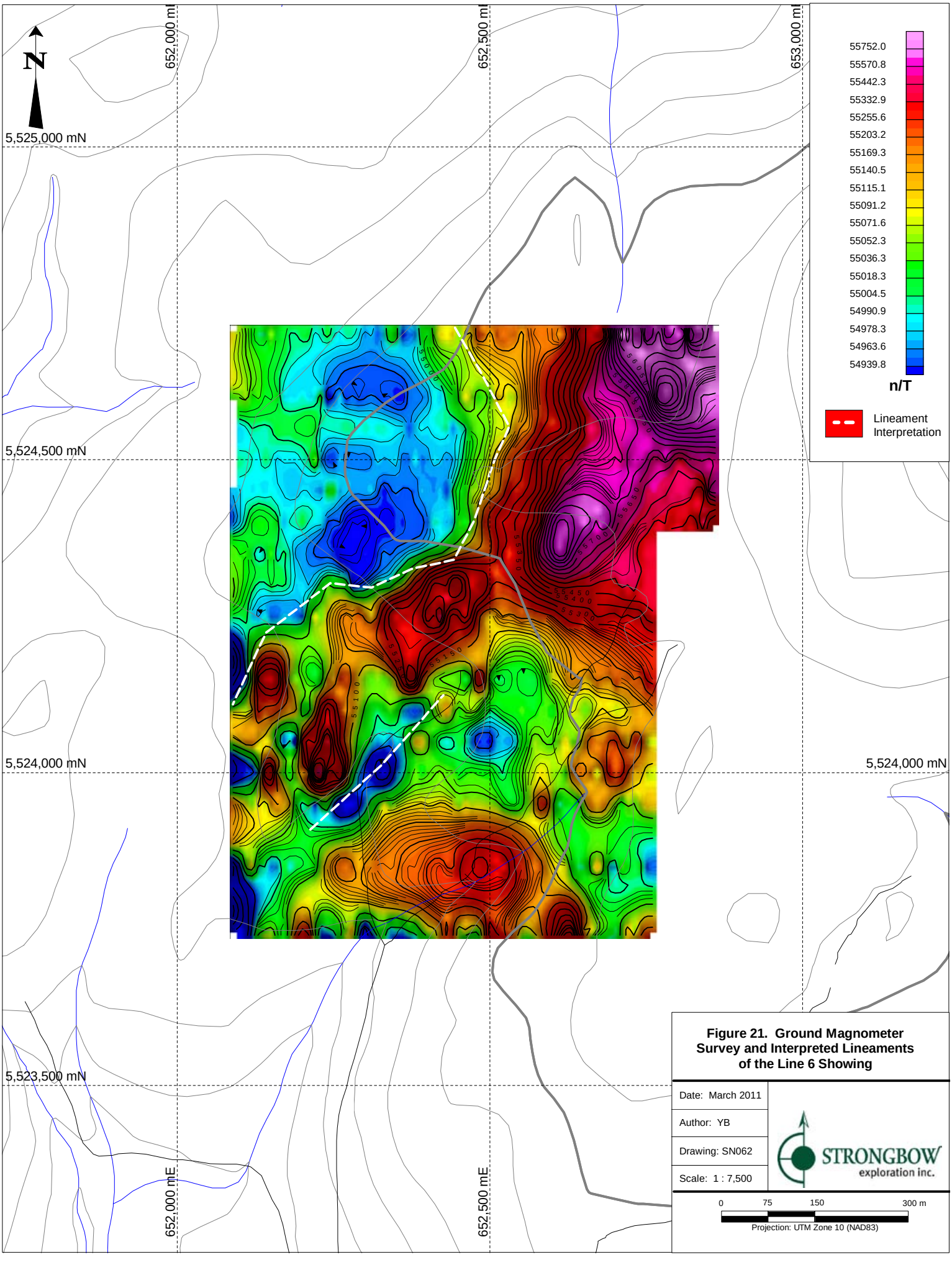


Figure 21. Ground Magnometer Survey and Interpreted Lineaments of the Line 6 Showing

Date: March 2011	
Author: YB	
Drawing: SN062	
Scale: 1 : 7,500	

STRONGBOW exploration inc.

further enhanced the understanding of the geology and mineralization at the Mik and Line 6 showings and successfully highlighted new areas of interest to the southeast of Mik and southeast part of the property.

Gold mineralization on the Shovelnose property has been effectively defined using soil geochemical techniques, prospecting, and ground geophysics. However, a few areas of gold in soil anomalies remain that have not been properly explained with in situ gold occurrences, despite detailed prospecting efforts. Exploration in 2010 focused on testing the use of auger soil sampling to penetrate beneath the B soil horizon and areas of thicker overburden in an attempt to explain some of these anomalies. Based on the comparison between surface and soil auger sample pair results, auger samples do not consistently indicate higher values of gold and pathfinder elements. It is still important to use auger sampling over traditional surface soil sampling in areas where the soil profile is not well developed (e.g. areas of cultural or agricultural disturbance or steeper terrain where soil creep may occur) or where thicker overburden occurs, in order to ensure the best test of the soil media, as close to bedrock as possible.

Gold mineralization appears to be both structurally and stratigraphically controlled. The Line 6 and Mik showings are spatially related to northeast and possibly conjugate northwest-trending faults, as highlighted by mapping and ground geophysics. South-southwest trending quartz veining is hosted specifically within Cretaceous-age Spences Bridge Group crystal lithic tuffs of the Pimainus Formation. This unit contains siliceous fragments (PFcls), with alteration represented by argillite, sericite, chlorite, limonite, manganese, and silica. Interpretations based on property-scale mapping indicate that the felsic crystal lithic tuffs represent the earlier stages of eruption of rhyolitic lavas as some fragments of flow-banded rhyolite similar to that seen on the property are observed within the tuffs. The tuffaceous phase that contains siliceous fragments may represent silica sinter that has been blasted out of the caldera neck and deposited during a cooler but very explosive steam-related event (phreatomagmatic eruption). As this unit appears to be the principal host to the gold-bearing quartz veins, the siliceous fragments may also carry gold. The presence of preserved wood fragments in this unit suggests that little to no transport or erosion has occurred and therefore this unit could be deposited close to the source caldera. This crystal lithic tuff unit is correlated to the PS4 lapilli tuff unit regionally mapped by Diakow and Barrios (2008). It appears that newly defined zones of anomalous gold and pathfinder geochemistry at southeast Mik and Shovelnose Southeast occur within regionally mapped areas of the PS4 lapilli tuff unit, therefore highlighting the potential for discovery of additional zones of gold mineralization.

Rhyolite flows do not contain mineralized quartz veins but are locally altered and observed to occur within topographic low areas. These lows and valleys are interpreted to represent poorly exposed fault structures that are locally, spatially associated with quartz veining. This suggests that the flows may be obscuring gold mineralization. Most of the faulting occurred prior to the deposition of rhyolite flows but some structures may have developed concurrently or reactivated during initial volcanic activity and deposition of

the Spences Bridge Group felsic volcaniclastic rocks. Continued movement on these faults has caused some offset of the Spences Bridge Group rocks and is accompanied by intermittent hydrothermal activity, which is represented by local silicification, sericitic alteration, quartz veining and gold mineralization along these structures.

6.0 RECOMMENDATIONS

The following work is recommended for future exploration on the Shovelnose property. This work should focus on drill testing the Mik and Line 6 showings and further defining the new areas of geochemical anomalies at southeast Mik and Shovelnose Southeast.

Mik

- Drill test the following targets at the Mik showing, in order of priority:
    - Mineralized quartz vein system at the west end of the Mik trenches 1, 2 and 4
    - Test at depth the highly anomalous soil anomalies, including auger soil anomalies and mineralized quartz veins in hand trenches (e.g. 749 ppb Au surface soil and near coincident 99 ppb Au soil auger samples).
- Initial drilling would involve a minimum of four drill holes with a total meterage of 400 m. Drill holes should be angled and oriented perpendicular to the general strike of the veins; for instance drilling to the east-southeast (~160°) at a -45° dip, to a hole depth of 75 m to 100 m.
    - Pending results of the initial hole, a follow-up -70° dip drill hole from the same drill set-up to test for down dip extension of any mineralized horizons. Additional drill holes would increase meterage to 600 m.
- If initial drill holes positively intersect additional veining at depth, conduct step out holes by 50 m to the north and/or west (additional 200 m).
- Assuming an estimated all-in cost of drilling of $300/m, the total cost of minimum drill program (400 m) would be estimated at $120,000 and for the maximum proposed drilling (1,000 m) would be $300,000.

Line 6

Drilling the main Line 6 corridor should be a priority to test for a larger vein at depth which could be acting as a feeder to all the smaller veins at surface. The three main areas that should be drill tested would be:

- Western trenches, to test for vein continuity at depth. Set up west of L6-XT-06 and drill to the east at -60°.
- Eastern trenches, to test for continuity of crystal siliceous lithic tuff unit under rhyolite flows (PGfr) and test a possible north-northeast trending fault. Set up west of L6-XT-02 and drill to the east at -60°.
- Initial drilling would involve a minimum of two drillholes with a total meterage of 200 m. Drill holes should be angled and oriented perpendicular to the general

strike of the veins; for instance drilling to the east-southeast (~160°), to a hole depth of 75 m to 100 m.

- If initial drill holes positively intersect additional veining at depth, conduct step out holes by 50 m to the north (additional 200 m).
- Assuming an estimated all-in cost of drilling of $300/m, the total cost of minimum drill program (200 m) would be estimated at $60,000 and for the maximum proposed drilling (400 m) would be $120,000.
- The magnetic low feature to the southwest of Line 6 coincident with several surface soil and auger anomalies should be tested with more auger sampling.
- Detailed auger soil samples should be conducted through most of this magnetic low feature.
- If soil auger results are positive, hand and/or mechanized trenching should be conducted.

Regional

- Spot or two-sample anomalies in both the auger sampling and infill surface sampling require follow-up using more detailed surface and auger soil sample spacing.
- In particular, the area around the 119.37 g/t Au rock sample southeast of Mik warrants a number of test lines of auger soil samples to follow up on the anomalous gold and pathfinder results from rock and soil samples.
- Prospecting should continue on the underexplored southeastern part of the property with a focus on following up sample 77959 (591 ppb Au, 10.16 ppm Hg and 26.5 ppm Sb).
- Detailed soil geochemistry lines with selected auger sampling should also be conducted on at least part of the southeastern part of the property, with a focus on around the area of sample 77959.
- Allow for an overall cost of $70,000 for a geochemical and prospecting program involving the collection of 600 to 1,000 samples with a crew of 4 to 6 persons.

Summary of Recommended Expenditures

Assuming the minimum program is completed:

Mik:	$ 120,000.00
Line 6	$ 60,000.00
Regional Work	$ 70,000.00
Total	**$ 250,000.00**

7.0 PERSONNEL AND CONTRACTORS

Contractor	Type of Work	Address
Acme Analytical Labs	Geochemical analysis	852 East Hastings Street Vancouver, BC V6A 1R6
Analytical Solutions	Pre-packaged QAQC	1214-3266 Young Street Toronto, ON M4N 2L6
Martin St. Pierre	Ground Magnetics Interpretation	1382 Deeridge Lane, Coquitlam, BC V3E 1Y7

8.0 STATEMENT OF COSTS					
Strongbow Exploration Inc.					
Summary of Shovelnose Expenditures					
Fieldwork commenced on June 18th to July 14th, 2010					
Office work started in early May and will be ongoing to Dec/2010.					
Salaries and Benefits					**Comments**
Strongbow Employees - Salary	Man Days	Time Period (reflects field and office time)	Rate per day	Total Cost	Man Days are totalled for each person and occur mostly within fieldwork period.
Full Time					
Dave Gale	10		$ 700.00	$ 7,000.00	VP Exploration; project planning and field work
Rob Campbell	75		$ 550.00	$ 41,250.00	Senior Geologist, project planning, prospecting, sampling
Felicia Chang	0.5		$ 400.00	$ 200.00	Project Geologist, data evaluation, report writing
Harm Demon	27.5	June 17th-July 14th	$ 250.00	$ 6,875.00	Student Geologist, soil sampling and ground mag survey
Nathan Gagnon	27.75	June 17th-July 14th	$ 180.00	$ 4,995.00	Student Geologist, soil sampling and ground mag survey
Yvonne Bowen	10		$ 250.00	$ 2,500.00	GIS; Map making; data management; QA/QC
Part Time Labour					
John Spahan	10		$ 144.00	$ 1,440.00	Line-cutting, gridding, soil sampling
Jerry Mansfield	16	June 18-24th	$ 150.00	$ 2,400.00	Line-cutting, gridding, soil sampling
Joshua Mansfield	16		$ 150.00	$ 2,400.00	Line-cutting, gridding, soil sampling
			Total	**$ 69,060.00**	
Geochemical Analysis					
ACME Labs				$ 8,188.57	43 rock samples and 353 soil samples and shipping costs
			Total	**$ 8,188.57**	
Geophysical Survey					
Ground magnetometer survey				$ 5,887.07	Walking Magnetometer rental from Terraplus, shipping costs
			Total	**$ 5,887.07**	
Auger Sampling					
Auger Equipment				$ 1,552.24	Purchase, shipping, and maintenance (supplies)
			Total	**$ 1,552.24**	
Accomodation, Travel, Food, and Field Supplies					
Motel and meals				$ 7,975.82	Accomodation (Merritt Lodge); Food (groceries and restaurants), Field supplies, Chain Saw rental
Transportation Rental and Insurance				$ 1,864.25	Transportation Rental for 30 days: Enterprise-Rent-A-Car (one truck at $1600/month), vehicle insurance.
Fuel				$ 932.71	Diesel fuel for truck
Field Gear supplies and map making				$ 763.27	Supplies purchase, field map preparation and shipping fees
			Total	**$ 11,536.05**	
Communication					
Radio and satellite phones				$ 307.48	Rental and airtime usage
			Total	**$ 307.48**	
Documentation and Report Writing			**Total**	**$ 4,000.00**	Report writing and printing costs
GRAND TOTAL				**$ 100,531.41**	

9.0 STATEMENT OF QUALIFICATIONS

I, Felicia Y.Y. Chang, of 860-625 Howe St., Vancouver BC, V6C 2T6, do certify that:

1. I have been conferred with the academic degrees of Honours Bachelor of Science – Earth and Ocean Sciences (University of British Columbia, 2000) and Master of Science – Geology (Queen's University, 2003).

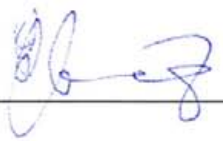
2. I have been engaged as an exploration geologist in Canada since 1999 with Aber Resources Ltd., Navigator Exploration Corp., Miramar Mining Corp., and Stornoway Diamond Corp.

3. I am a member of the Association of Professional Geoscientists of BC (Member No. 144820).

4. I am currently employed with Strongbow Exploration Inc. of 860-625 Howe St., Vancouver BC, V6C 2T6.

5. I certify that to the best of my knowledge the costs listed, and all data presented, were incurred while carrying out exploration work on the Shovelnose Property, BC during 2010.

Dated at Vancouver, British Columbia, this 14th day of March, 2011.



Felicia Y. Chang, P.Geo., M.Sc.

I, David F. Gale, of 860-625 Howe Street, Vancouver, BC, V6C 2T6, do certify that:

1. I have been conferred with the academic degrees of Honours Bachelor of Science – Geology (Memorial University, 1994) and Master of Science – Geology (Queen's University, 1997).

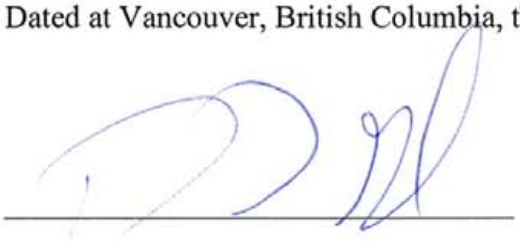
2. I have been engaged as an exploration geologist throughout Canada since 1995 with Cominco, Westmin Resources, BHP Ltd., Homestake Canada Inc., and Barrick Gold Corp.

3. I am a member of the Association of Professional Geoscientists of BC (Member No. 27366).

4. I am currently employed with Strongbow Exploration Inc. of 860-625 Howe Street, Vancouver, BC, V6C 2T6.

5. I certify that to the best of my knowledge the costs listed, and all data presented, were incurred while carrying out exploration work on the Shovelnose Property, BC during 2010.

Dated at Vancouver, British Columbia, this 14th day of March, 2011.



David F. Gale, P. Geo., M.Sc.

10.0 REFERENCES

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APPENDIX I

ACME Analytical Laboratories Ltd.
Methods and Specifications for Analytical Packages

Sample Preparation
Group 1D & 1DX – ICP & ICP-MS Analysis – Aqua Regia
Group 6 – Precious Metal Assay, Metallic Screen assay

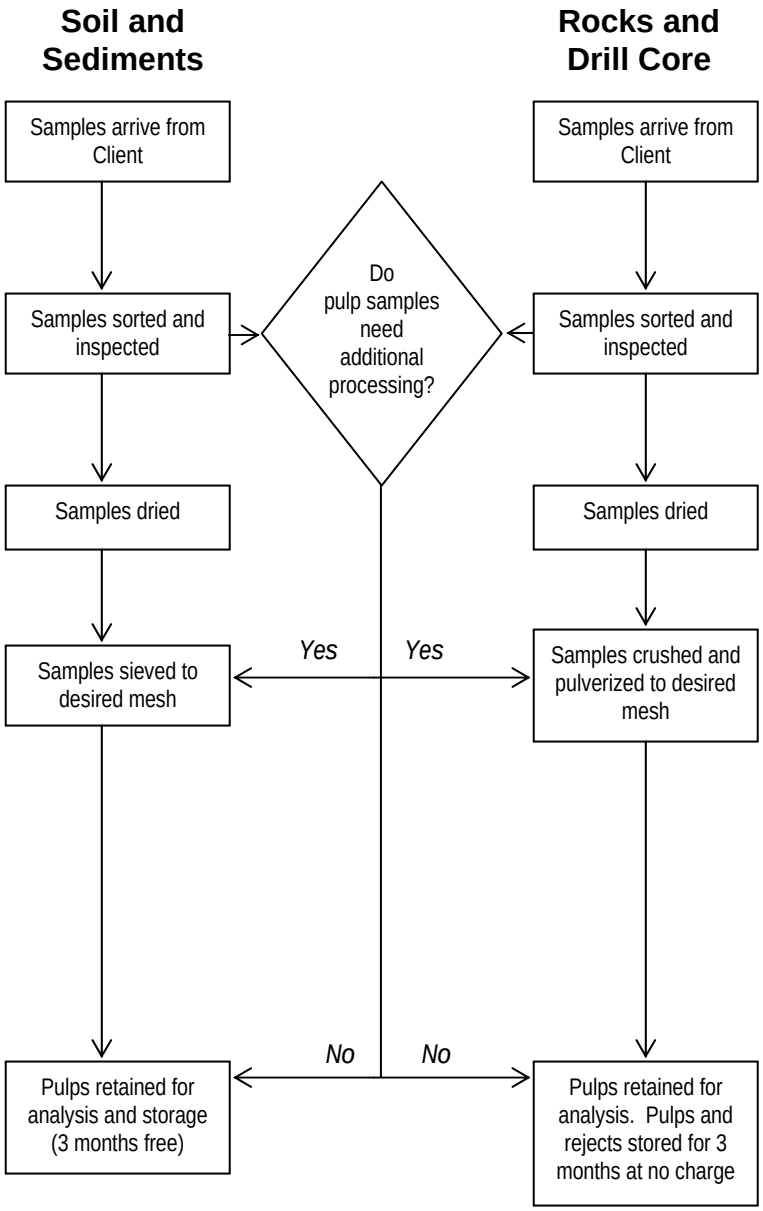
Analytical Solutions Ltd.
Gold Standards Certificates

Oreas 61Pb
Oreas 62Pa

ACME ANALYTICAL LABORATORIES LTD.

ISO 9001:2000
FM 63007
Vancouver 2003

GENERAL SAMPLE PREPARATION METHODS



Comments

Receiving: Samples arrive via courier, post or by client drop-off; shipment inspected for completeness.

Sorting and Inspection: Samples sorted and inspected for quality of use (quantity and condition). Pulp samples inspected for homogeneity and fineness. Coarse pulps are screened or pulverized after getting client's approval.

Drying: Wet or damp samples are dried at 60°C (40°C if specified by the client).

Sieving: Soil and sediment sieved to -80 mesh ASTM (-177 microns) unless client specifies otherwise. Sieve cleaned by brush and compressed air between samples. Reference material G-1 (pulp made of granite blank) is carried as first sample in sequence (sieve›weigh›digest›analyse) to monitor background noise.

Crushing and Pulverizing: Rock and Drill Core crushed to 70% passing 10 mesh (2 mm), homogenized, riffle split (250 g subsample) and pulverized to 95% passing 150 mesh (100 microns). Crusher and pulverizer are cleaned by brush and compressed air between routine samples. Granite wash scours equipment after high-grade samples, between changes in rock colour and at end of each file. Granite is crushed and pulverized as first sample in sequence and carried through to analysis to monitor background noise.

Compositing: Equal weights of crushed, pulverized or sieved material from 2 or more samples are combined and pulverized for 60+ seconds to produce a homogeneous mixture.

Storage: Pulp samples (up to 100g for soils or sediments and up to 250 g for rock and drill core) are archived for 3 months at no cost. Soil and sediment rejects are discarded immediately. Rock and drill core rejects are stored for 3 months at no charge. Client may request additional storage, return or disposal of pulps and rejects after initial free storage period.

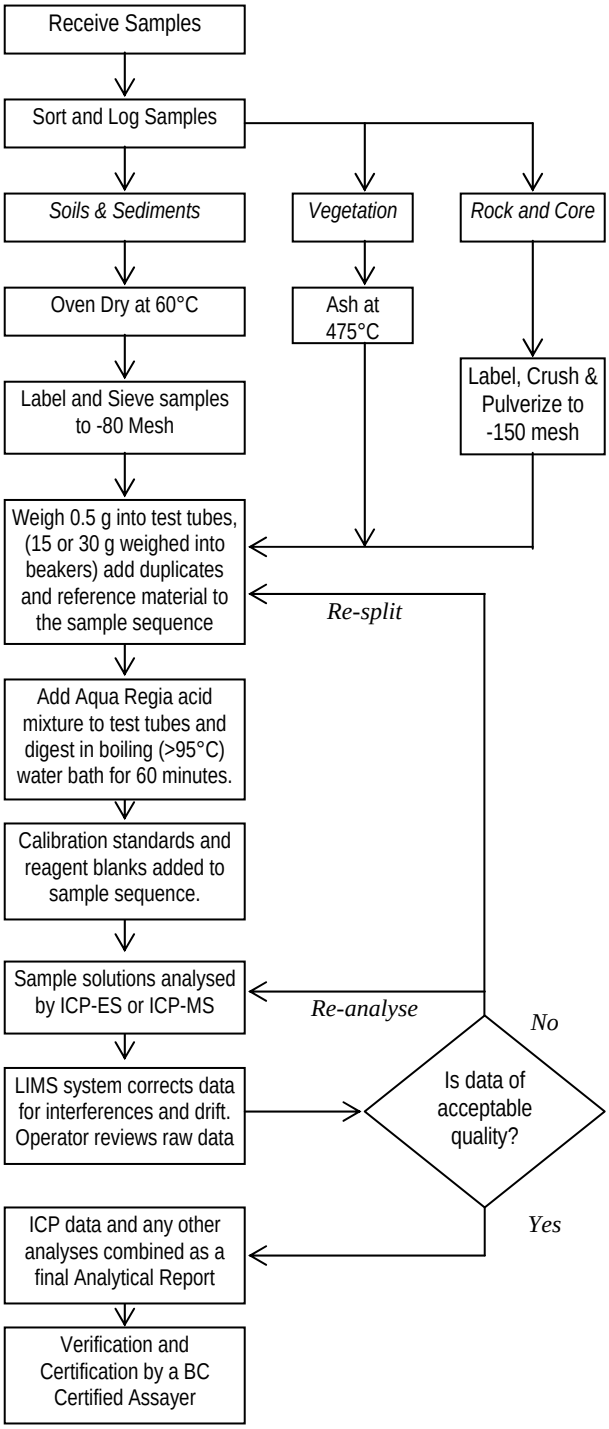
852 East Hastings Street, Vancouver, BC Canada V6A 1R6
Phone (604) 253 3158 Fax (604) 253 1716 e-mail: acmeinfo@acmelab.com

ACME ANALYTICAL LABORATORIES LTD.

ISO 9001:2000 FM 63007 Vancouver 2003

METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE GROUP 1D & 1DX – ICP & ICP-MS ANALYSIS – AQUA REGIA

Analytical Process



Comments

Sample Preparation

All samples are dried at 60°C. Soil and sediment are sieved to -80 mesh (-177 μm). Moss-mats are disaggregated then sieved to yield -80 mesh sediment. Vegetation is pulverized or ashed (475°C). Rock and drill core is jaw crushed to 70% passing 10 mesh (2 mm), a 250 g riffle split is then pulverized to 95% passing 150 mesh (100 μm) in a mild-steel ring-and-puck mill. Pulp splits of 0.5 g are weighed into test tubes, 15 and 30 g splits are weighed into beakers.

Sample Digestion

A modified Aqua Regia solution of equal parts concentrated ACS grade HCl and HNO_3 and de-mineralised H_2O is added to each sample to leach for one hour in a hot water bath (>95°C). After cooling the solution is made up to final volume with 5% HCl. Sample weight to solution volume is 1 g per 20 mL.

Sample Analysis

Group 1D: solutions aspirated into a Jarrel Ash AtomComp 800 or 975 ICP or Spectro Ciros Vision emission spectrometer are analysed for 30 elements: Ag, Al, As, Au, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sr, Th, Ti, U, V, W, Zn.

Group 1DX: solutions aspirated into a Perkin Elmer Elan 6000/9000 ICP mass spectrometer are analysed for 36 elements: Ag, Al, As, Au, B, Ba, Bi, Ca, Cd, Co, Cr, Cu, Fe, *Ga*, *Hg*, K, La, Mg, Mn, Mo, Na, Ni, P, Pb, *S*, Sb, *Sc*, *Se, Tl*, Sr, Th, Ti, U, V, W, Zn.

Quality Control and Data Verification

An Analytical Batch (1 page) comprises 36 samples. QA/QC protocol incorporates a sample-prep blank (G-1) carried through all stages of preparation and analysis as the first sample, a pulp duplicate to monitor analytical precision, a -10 mesh rejects duplicate to monitor sub-sampling variation (drill core only), a reagent blank to measure background and an aliquot of in-house Standard Reference Materials like STD DS7 to monitor accuracy.

Raw and final data undergo a final verification by a British Columbia Certified Assayer who signs the Analytical Report before it is released to the client.

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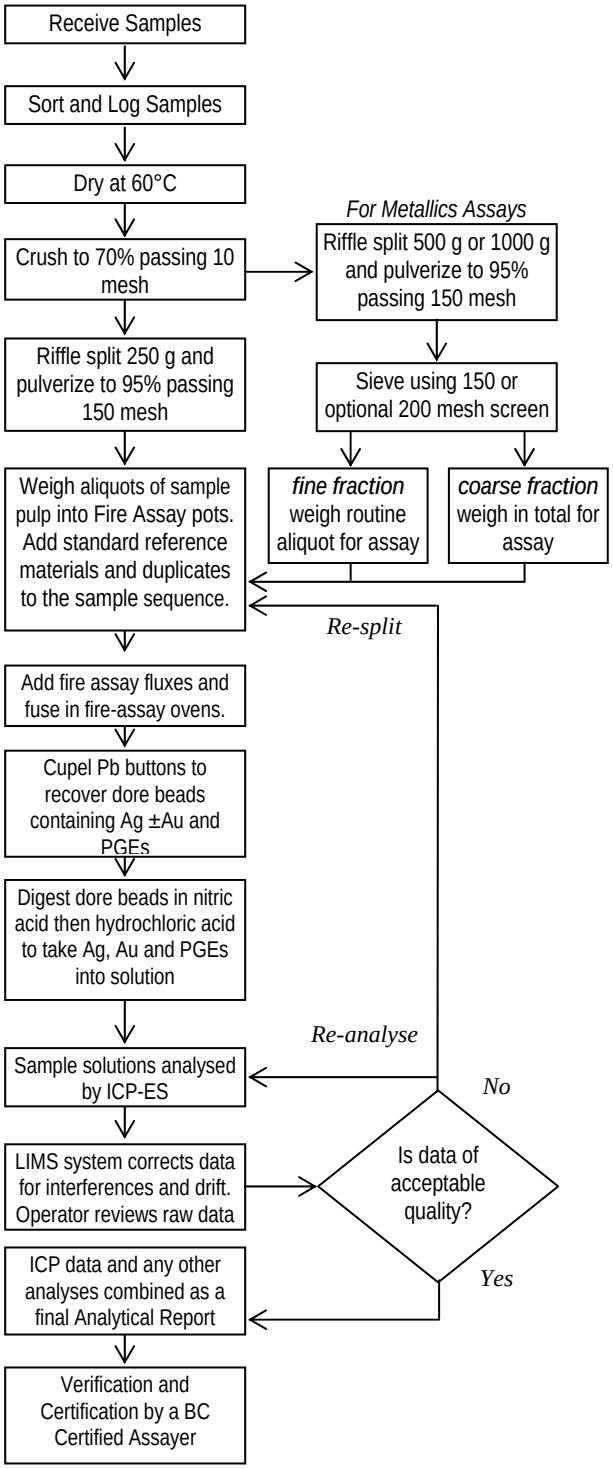
METHODS AND SPECIFICATIONS FOR ANALYTICAL PACKAGE
GROUP 6 – PRECIOUS METALS ASSAY

Analytical Process



Comments

Sample Preparation

Rock and drill core are jaw crushed to 70% passing 10 mesh (2 mm), a 250 g riffle split is then pulverized to 95% passing 150 mesh (100 μm) in a mild-steel ring-and-puck mill. One assay ton aliquots (29.2 g) are weighed into fire assay crucibles. Option for 2 assay-ton aliquots is available on request. Smaller aliquots of ¼ or ½ assay ton may be required with difficult ore matrices.

Metallics Assay: A 500 g reject split (or optional 1000 g) is pulverized to 95% passing 150 mesh. Screening the pulp gives a fine and coarse fraction (containing any coarse gold) for assaying.

Sample Digestion

The sample aliquot is custom blended with fire assay fluxes, PbO litharge and a Ag inquart. Firing the charge at 1050°C liberates Au, Ag ± PGEs that report to the molten Pb-metal phase. After cooling the Pb button is recovered placed in a cupel and fired at 950°C to render a Ag ± Au ± PGEs dore bead. The bead is weighed and parted (i.e. leached in 1 mL of hot HNO_3) to dissolve Ag leaving a Au sponge. Adding 10 mL of HCl dissolves the Au ± PGE sponge.

Sample Analysis

Solutions are analysed for Ag, Au, Pt and Pd on a Jarrel-Ash Atomcomp model 975 ICP emission spectrometer. Au in excess of 30 g/t forms a large sponge that can be weighed (gravimetric finish). Ag in excess of 100 g/t is reported from the fire assay, otherwise a separate split is digested in aqua regia and analysed by ICP-ES (Group 7AR).

Metallics Assay: The coarse fraction is assayed in total. An aliquot of the fine fraction is assayed. Results report the total Au in the coarse fraction, the fine-fraction Au concentration and a weighted average Au concentration for the entire sample.

Quality Control and Data Verification

An Analytical Batch (1 page) comprises 34 samples. QA/QC protocol incorporates a sample-prep blank (G-1) as the first sample carried through all stages of preparation to analysis, a pulp duplicate to monitor analytical precision, a -10 mesh rejects duplicate to monitor sub-sampling variation (drill core only), two reagent blanks to measure background and aliquots of Rocklabs Certified Reference Materials like SL20 to monitor accuracy.

Raw and final data undergo a final verification by a British Columbia Certified Assayer who signs the Analytical Report before it is released to the client.

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ORE RESEARCH & EXPLORATION PTY LTD
3 London Drive, Bayswater, Vic 3153 AUSTRALIA
Telephone: 61-3-9762 1808 Facsimile: 61-3-9762 3808

CERTIFICATE OF ANALYSIS FOR

GOLD ORE REFERENCE MATERIAL

OREAS 61Pb

SUMMARY STATISTICS

Recommended Values, 95% Confidence and Tolerance Intervals

Constituent	Recommended value	95% Confidence interval		Tolerance interval 1-α=0.99, ρ=0.95	
		Low	High	Low	High
Gold, Au (ppm)	4.75	4.68	4.82	4.73	4.77
Silver, Ag (ppm)	8.8	8.4	9.2	8.6	9.0

Prepared by:
Ore Research & Exploration Pty Ltd
October, 2003

REPORT 02/443C

ORE RESEARCH & EXPLORATION PTY LTD
6-8 Gatwick Road, Bayswater North, Vic 3153 AUSTRALIA
Telephone: 61-3-9729 0333 Facsimile: 61-3-9729 4777

CERTIFICATE OF ANALYSIS FOR

GOLD ORE REFERENCE MATERIAL

OREAS 62Pa

SUMMARY STATISTICS

Recommended Values, 95% Confidence and Tolerance Intervals

Constituent	Recommended value	95% Confidence interval		Tolerance interval 1-α=0.99, ρ=0.95	
		Low	High	Low	High
Gold, Au (ppm)	9.64	9.50	9.78	9.61	9.66
Silver, Ag (ppm)	18.4	17.9	18.9	18.1	18.7

Prepared by:
Ore Research & Exploration Pty Ltd
April, 2004

REPORT 02/443D

INTRODUCTION

OREAS certified reference materials (CRMs) are intended to provide a low cost method of evaluating and improving the quality of precious and base metal analysis of geological samples. To the analyst they provide an effective means of calibrating analytical equipment, assessing new techniques and routinely monitoring in-house procedures. To the geologist they provide a means of implementing quality control in analytical data sets generated in exploration, from the grass roots level through to prospect evaluation, and in grade control at mining operations.

As a rule only source materials exhibiting a high level of homogeneity of the element(s) of interest are used in the preparation of these materials. This has enabled Ore Research & Exploration to produce a range of gold ore CRMs exhibiting homogeneity that matches or exceeds that of currently available international reference materials. In certain instances CRMs produced from a single source are sufficiently homogeneous to produce a relatively coarse-grained form designed to simulate drill chip samples. These have a grain size of minus 3mm and are designated with a "C" suffix to the CRM identification number. These standards are packaged in 1kg units following homogenisation and are intended for submission to analytical laboratories in subsample sizes of as little as 250g. They offer the added advantages of providing a check on both sample preparation and analytical procedures while acting as a blind standard to the assay laboratory. The more conventional pulped standards have a grain size of minus 20 to minus 75 microns and a higher degree of homogeneity. These standards are distinguished by a "P" suffix to the standard identification number. In line with ISO recommendations successive batch numbers are now designated by the lower case suffixes "a", "b", "c", "d", etc.

SOURCE MATERIALS

Reference material OREAS 62Pa was prepared from a blend of barren meta-andesite from Cracow, Queensland Australia and gold-bearing meta-andesite from the Gosowong gold mine in Maluku, Indonesia. Both Gosowong and Cracow are epithermal deposits hosted by andesitic volcanics. The barren Cracow material is unmineralised low sulphidation epithermal quartz veining (epithermal quartz, carbonate, adularia and minor sulphides) and unmineralised altered andesites of the Camboon volcanics. The Gosowong ore consists of andesitic volcanic-hosted low sulphidation epithermal quartz veining containing an assemblage of epithermal quartz, carbonate, adularia, kaolin after adularia, chlorite and minor sulphides.

The approximate major and trace element composition of the gold ore standard OREAS 62Pa is given in Table 1. The constituents SiO_2 to Zr are the means of duplicate borate fusion X-ray fluorescence analyses, while the remaining constituents, As to Yb, are instrumental neutron activation analysis (INAA) means of twenty-three representative samples.

COMMINUTION AND HOMOGENISATION PROCEDURES

The Cracow and Gosowong material comprising OREAS 62Pa was prepared in the following manner:

a) jaw crushing to minus 7mm
b) drying to constant mass at 105^{0}C
c) milling of the barren Cracow material to 98% minus 75 micron

d) milling of the Gosowong ore to 100% minus 20 micron
e) blending in appropriate proportions to achieve the desired grade
f) bagging into 25kg sublots

Throughout the bagging stage twenty-four 1kg test units were taken at regular intervals, sealed in laminated plastic bags and set aside for the analytical program.

Table 1. Indicative major and trace element composition of gold ore reference material OREAS 62Pa; SiO_2 to Total and C and S as weight percent; rest in parts per million; SiO_2 to Zr by fusion XRF except C and S by Leco furnace; As to Yb by INAA.

Constituent	Concentration (XRF)	Constituent	Concentration (INAA)
SiO_2	67.2	As	17
TiO_2	0.49	Ce	22
Al_2O_3	12.7	Co	22
Fe_2O_3	5.89	Cr	43
MnO	0.12	Cs	4
MgO	1.89	Eu	<2
CaO	2.43	Hf	2
Na_2O	1.22	La	10
K_2O	3.55	Rb	120
P_2O_5	0.16	Sb	2
LOI	3.48	Sc	17
Total*	100.29	Sm	2.7
Ba	358	Th	2
C (Leco)	0.27	Yb	1.3
Ni	22		
S (Leco)	1.16		
V	134		
Zr	72		

* includes S

ANALYSIS OF OREAS 62Pa

Seventeen laboratories participated in the certification program and are listed in the section headed Participating Laboratories. To maintain anonymity they have been randomly designated the letter codes A through Q (Tables 2 – 4). With the exception of Laboratory A, each received four to five 100g samples with instructions to carry out one 30 to 50g fire assay determination for gold and one aqua regia digest determination for silver using their preferred finish. Apart from Lab E (ICPOES) and Labs G and K (gravimetric), most employed a flame AAS finish. Silver was determined by an AAS, ICPMS or ICPOES reading method.

For each laboratory two 100g subsamples were scoop-split from each of two separate 1kg test units taken during the bagging stage. This two-stage nested design for the interlaboratory programme was amenable to analysis of variance (ANOVA) treatment and enabled a comparative assessment of within- and between-unit homogeneity. In certain instances a fifth randomly chosen sample was included in the batch. For the determination of a statistical tolerance interval for gold, a 10g scoop split was taken from each of the twenty-four random test units and submitted to Lab A for determination via instrumental neutron activation analysis on a reduced analytical subsample weight of 0.5 gram.

Individual gold results for the fire assay and INAA methods are presented in Tables 2 and 3 together with the mean, median, standard deviation (absolute and relative) and bias (PDM^3) for each data set. Interlaboratory agreement of the data set means is good, lying within 6.2% of the recommended value of 9.64 ppm Au. Individual silver results together with summary statistics for each data set are presented in Table 4. Interlaboratory agreement of the means of all but two data sets is good, lying within 11.1% of the recommended value of

18.4 ppm Ag. The exception to this is Labs D2 and J, which have been relegated to outlying status with biases of –16.09% and 16.50% respectively.

Table 2. Analytical results for gold in Gosowong standard OREAS 62Pa (INAA - instrumental neutron activation analysis; FA-AAS - fire assay / atomic absorption spectrometry; FA-OES - fire assay / inductively coupled optical emission spectrometry; FA-GRAV - fire assay / gravimetric finish; Std.Dev. and RSD are one sigma values; PDM[3] - percent deviation of lab mean from corrected mean of means; outliers in bold; values in parts per million).

Sample No.	Lab B1 FA-AAS (50g)	Lab B2 FA-AAS (50g)	Lab B3 FA-AAS (50g)	Lab C1 FA-AAS (50g)	Lab C2 FA-AAS (50g)	Lab C3 FA-AAS (50g)	Lab D1 FA-AAS (50g)	Lab D2 FA-AAS (50g)	Lab D3 FA-AAS (50g)
1	9.43	9.34	9.41	9.74	10.5	9.46	9.94	10.0	9.94
2	9.73	9.32	9.48	9.37	10.0	9.53	9.92	10.2	9.80
3	9.90	9.50	**9.66**	9.54	10.5	9.98	9.93	**10.6**	9.57
4	9.95	9.38	9.43	9.63	10.0	9.39	9.80	10.1	9.77
5	9.69	9.42	9.41	9.51	10.0	9.96	**9.52**	10.0	9.56
Mean	9.74	9.39	9.48	9.56	10.20	9.66	9.82	10.18	9.73
Median	9.73	9.38	9.43	9.54	10.00	9.53	9.92	10.10	9.77
Std.Dev.	0.21	0.07	0.11	0.14	0.27	0.29	0.18	0.24	0.16
Rel.Std.Dev	2.11%	0.76%	1.12%	1.44%	2.68%	2.97%	1.79%	2.32%	1.67%
PDM[3]	1.28%	-2.34%	-1.45%	-0.61%	6.06%	0.46%	2.12%	5.89%	1.15%

Table 2 Continued

Sample No.	Lab E1 FA-OES (40g)	Lab E2 FA-OES (40g)	Lab E3 FA-OES (40g)	Lab F1 FA-AAS (50g)	Lab F2 FA-AAS (50g)	Lab F3 FA-AAS (50g)	Lab G FA-GRAV (50g)	Lab H FA-AAS (50g)	Lab I FA-AAS (50g)
1	10.1	9.86	9.39	9.49	9.32	9.73	9.91	9.56	9.71
2	10.1	9.74	9.60	**10.1**	9.08	9.44	9.80	9.61	9.62
3	9.92	9.82	9.36	9.55	8.88	9.59	9.74	9.62	9.66
4	9.86	9.96	9.66	9.38	9.03	**9.04**	9.85	9.73	**9.37**
5	10.1	9.86	9.47	**9.03**	8.82	9.73			
Mean	10.02	9.85	9.50	9.51	9.03	9.51	9.82	9.63	9.59
Median	10.10	9.86	9.47	9.49	9.03	9.59	9.82	9.62	9.64
Std.Dev.	0.12	0.08	0.13	0.39	0.20	0.29	0.07	0.07	0.15
Rel.Std.Dev	1.17%	0.81%	1.37%	4.06%	2.17%	3.02%	0.76%	0.74%	1.58%
PDM[3]	4.15%	2.40%	-1.26%	-1.11%	-6.15%	-1.15%	2.14%	0.14%	-0.28%

Table 2 Continued

Sample No.	Lab J FA-AAS (30g)	Lab K FA-GRAV (50g)	Lab L FA-AAS (50g)	Lab M FA-AAS (50g)	Lab N FA-AAS (50g)	Lab O FA-AAS (50g)	Lab P FA-AAS (50g)	Lab Q FA-AAS (50g)
1	9.03	9.67	9.75	9.86	9.54	10.05	9.78	9.94
2	9.66	9.33	9.79	9.97	9.34	9.36	9.82	9.91
3	8.95	9.60	9.76	9.73	9.46	9.13	9.80	9.95
4	9.60	9.40	9.74	9.83	9.48	9.35	9.85	9.87
5								
Mean	9.31	9.50	9.76	9.85	9.46	9.47	9.81	9.92
Median	9.31	9.50	9.76	9.85	9.47	9.36	9.81	9.92
Std.Dev.	0.37	0.16	0.02	0.10	0.08	0.40	0.03	0.03
Rel.Std.Dev	3.99%	1.70%	0.22%	1.00%	0.89%	4.22%	0.30%	0.34%
PDM[3]	-3.23%	-1.22%	1.49%	2.40%	-1.68%	-1.50%	2.03%	3.12%

STATISTICAL EVALUATION OF ANALYTICAL DATA FOR OREAS 62Pa

Recommended Value and Confidence Limits

Each batch of results was treated as a separate data set in testing for outliers and in determining the consensus mean. A weighting was applied to each batch mean to ensure equal representation for all laboratories irrespective of the number of batches analysed. The recommended value was determined from the mean of means of accepted replicate values of accepted laboratory data sets A to Q according to the formulae.

$$\bar{x}_i = \frac{1}{n_i} \sum_{j=1}^{n_i} x_{ij}$$

$$\ddot{x} = \frac{1}{p} \sum_{i=1}^{p} \bar{x}_i$$

where

x_{ij} *is the jth result reported by laboratory i;*

p *is the number of participating laboratories;*

n_i *is the number of results reported by laboratory i;*

$\bar{x}_i$ *is the mean for laboratory i*;

$\ddot{x}$ *is the mean of means.*

Table 3. Analytical results for gold (ppm) in OREAS 62Pa by instrumental neutron activation analysis on 0.5 gram analytical subsample weights (abbreviations as for Table 2).

Sample No.	Lab A INAA
1	9.42
2	9.47
3	9.53
4	9.30
5	9.46
6	9.41
7	9.40
8	9.44
9	9.46
10	9.56
11	9.52
12	9.62
13	9.40
14	9.52
15	9.62
16	9.50
17	9.38
18	9.59
19	9.45
20	9.35
21	9.43
22	9.43
23	9.53
24	9.44
Mean	9.47
Median	9.46
Std.Dev.	0.08
Rel.Std.Dev.	0.86%
PDM[3]	-1.55%

The test for rejection of individual outliers from each laboratory data set was based on *z* scores (rejected if $|z_i| > 2.5$) computed from the robust estimators of location and scale, *T* and *S*, respectively, according to the formulae

$$S = 1.483 \underset{j=1.....n}{median} / x_j - \underset{i=1.....n}{median} (x_i) /$$

$$z_i = \frac{x_i - T}{S}$$

where

T is the median value in a data set;
S is the median of all absolute deviations from the sample median multiplied by 1.483, a correction factor to make the estimator consistent with the usual parameter of a normal distribution.

In certain instances statistician's prerogative has been employed in discriminating outliers. Individual outliers and, more rarely, laboratory means deemed to be outlying are shown in bold and have been omitted in the determination of recommended values.

Table 4. Analytical results for silver in Gosowong standard OREAS 62Pa (INAA – instrumental neutron activation analysis; AR-AAS - aqua regia digest / atomic absorption spectrometry; AR-OES - aqua regia digest / inductively coupled plasma optical emission spectrometry; AR-MS - aqua regia digest / inductively coupled plasma mass spectrometry; other abbreviations as in Table 2; values in parts per million).

Replicate No.	Lab A INAA	Lab B1 AR-AAS	Lab B2 AR-AAS	Lab B3 AR-AAS	Lab C1 AR-OES	Lab C2 AR-OES	Lab C3 AR-OES	Lab D1 AR-MS	Lab D2 AR-MS
1	21.3	17.7	16.8	**15.8**	18	19	18.35	16.32	15.63
2	19.9	18.5	16.4	17.4	18	19	18.02	17.14	15.7
3	22.6	19.4	16.8	17.2	18	19	17.93	17.4	**15.39**
4	13.6	18.9	16.3	17.2	18	19	18.85	**15.64**	15.87
5	19.8	18.6	16.7	17	19	19	19.21	17.52	15.74
6	17.4								
7	12.1								
8	13.6								
9	11.8								
10	14.3								
11	21.9								
12	21.5								
13	16.4								
14	**8.3**								
15	16.3								
16	21.7								
17	18.1								
18	16.3								
19	20.0								
20	14.1								
21	14.2								
22	18.3								
23	16.5								
24	17.0								
Mean	17.0	18.62	16.60	16.92	18.20	19.00	18.47	16.80	**15.67**
Median	16.8	18.60	16.70	17.20	18.00	19.00	18.35	17.14	15.70
Std.Dev.	3.7	0.62	0.23	0.64	0.45	0.00	0.55	0.80	0.18
Rel.Std.Dev	22.0%	3.34%	1.41%	3.79%	2.46%	0.00%	2.97%	4.77%	1.13%
PDM[3]	-9.17%	-0.27%	-11.1%	-9.37%	-2.52%	1.77%	-1.06%	-9.99%	-16.1%

Table 4 Continued

Sample No.	Lab D3 AR-MS	Lab E1 AR-MS	Lab E2 AR-MS	Lab E3 AR-MS	Lab F1 AR-OES	Lab F2 AR-OES	Lab F3 AR-OES	Lab H AR-AAS	Lab I AR-AAS
1	20	18.3	19.1	18.8	17.5	17.8	17.3	19.7	**16**
2	20	19.5	18.6	18.4	17.3	16.9	17.6	19.9	18
3	20	19.5	20.0	18.0	17.9	17.0	18.1	20.0	19
4	20	18.7	20.4	18.0	18.3	17.1	17.9	20.0	19
5	20	19.5	18.6	18.6	18.3	17.4	17.4		
Mean	20.00	19.10	19.34	18.36	17.86	17.24	17.66	19.90	18.00
Median	20.00	19.50	19.10	18.40	17.90	17.10	17.60	19.95	18.50
Std.Dev.	0.00	0.57	0.82	0.36	0.46	0.36	0.34	0.14	1.41
Rel.Std.Dev	0.00%	2.96%	4.26%	1.95%	2.55%	2.12%	1.90%	0.71%	7.86%
PDM[3]	7.12%	2.30%	3.59%	-1.66%	-4.34%	-7.66%	-5.41%	6.59%	-3.59%

Table 4 Continued

Sample No.	Lab J AR-AAS	Lab K AR-AAS	Lab L	Lab M	Lab N	Lab O	Lab P	Lab Q
1	22.2	18.9	19.1	18.6	18.7	19.0	17.5	**18.1**
2	22.4	19.0	19.0	19.0	18.9	18.8	17.9	16.9
3	20.9	18.9	18.6	18.7	18.9	18.9	17.7	17.2
4	21.5	**18.7**	18.6	18.8	18.5	**18.3**	17.8	17.2
Mean	**21.75**	18.88	18.83	18.78	18.75	18.75	17.73	17.35
Median	21.85	18.90	18.80	18.75	18.80	18.85	17.75	17.20
Std.Dev.	0.69	0.13	0.26	0.17	0.19	0.31	0.17	0.52
Rel.Std.Dev	3.15%	0.67%	1.40%	0.91%	1.02%	1.66%	0.96%	2.99%
PDM[3]	16.5%	1.10%	0.83%	0.56%	0.43%	0.43%	-5.06%	-7.07%

Table 5. Recommended values and 95% confidence intervals

Constituent	Recommended value	95% Confidence interval	
		Low	High
Gold, Au (ppm)	9.64	9.50	9.77
Silver, Ag (ppm)	18.4	17.9	18.9

Statement of Homogeneity

The standard deviation of each laboratory data set includes error due to both the imprecision of the analytical method employed and to possible inhomogeneity of the material analysed. The standard deviation of the pooled individual analyses of all participating laboratories includes error due to the imprecision of each analytical method, to possible inhomogeneity of the material analysed and, in particular, to deficiencies in accuracy of each analytical method. In determining tolerance intervals for silver that component of error attributable to measurement inaccuracy was eliminated by transformation of the individual results of each data set to a common mean (the uncorrected grand mean) according to the formula

$$x'_{ij} = x_{ij} - \bar{x}_i + \frac{\sum_{i=1}^{p}\sum_{j=1}^{n_i} x_{ij}}{\sum_{i=1}^{p} n_i}$$

where

x_{ij} *is the jth raw result reported by laboratory i*;

x'_{ij} *is the jth transformed result reported by laboratory i*;

n_i *is the number of results reported by laboratory i*;

p *is the number of participating laboratories*;

$\bar{x}_i$ *is the raw mean for laboratory i.*

The homogeneity of each constituent was determined from tables of factors for two-sided tolerance limits for normal distributions (ISO 3207) in which

$$\text{Lower limit is } \ddot{x} - k'_2(n,p,1-\alpha)s''_g$$

$$\text{Upper limit is } \ddot{x} + k'_2(n,p,1-\alpha)s''_g$$

where

n the number of results
1-α is the confidence level;
p is the proportion of results expected within tolerance limits;
k'_2 is the factor for two-sided tolerance limits (m, α unknown);
s''_g is the corrected grand standard deviation.

The meaning of these tolerance limits may be illustrated for silver, where 99% of the time at least 95% of subsamples will have concentrations lying between 18.1 and 18.7 ppm. Put more precisely, this means that if the same number of subsamples were taken and analysed in the same manner repeatedly, 99% of the tolerance intervals so constructed would cover at least 95% of the total population, and 1% of the tolerance intervals would cover less than 95% of the total population (IS0 Guide 35).

The corrected grand standard deviation, s_g'', used to compute the tolerance intervals is the weighted means of standard deviations of all data sets for a particular constituent according to the formula

$$s''_g = \frac{\sum_{i=1}^{p}\left(s_i\left(1-\frac{s_i}{s'_g}\right)\right)}{\sum_{i=1}^{p}\left(1-\frac{s_i}{s'_g}\right)}$$

where

$$1-\left(\frac{s_i}{2s'_g}\right) \text{ is the weighting factor for laboratory } i\text{ ;}$$

s'_g *is the grand standard deviation computed from the transformed (i.e. means - adjusted) results*

according to the formula

$$s'_g = \left[\frac{\sum_{i=j}^{p} \sum_{j=i}^{n_i} (x'_{ij} - \bar{x}'_i)^2}{\sum_{i=1}^{p} n_i - 1} \right]^{1/2}$$

where $\bar{x}'_i$ is the transformed mean for laboratorty i

The weighting factors were applied to compensate for the considerable variation in analytical precision amongst participating laboratories. Hence, weighting factors for each data set have been constructed so as to be inversely proportional to the standard deviation of that data set. Outliers (shown in bold in Table 4) were removed prior to the calculation of tolerance intervals and a weighting factor of zero was applied to those data sets where $s_l / 2s_g' > 1$ (i.e. where the weighting factor $1 - s_l / 2s_g' < 0$). It should be noted that estimates of tolerance by this method are considered conservative as a significant proportion of the observed variance, even in those laboratories exhibiting the best analytical precision, can presumably be attributed to measurement error.

For gold a more simplified procedure was used in the determination of homogeneity. This entailed using the high precision INAA data alone, obtained on an analytical subsample weight of 0.5 gram (compared to 30-50 gram for the fire assay method). By employing a sufficiently reduced subsample weight in a series of determinations by the same method, analytical error becomes negligible in comparison to subsampling error. The corresponding standard deviation at a 50 gram subsample weight can then be determined from the observed standard deviation of the 0.5 gram data using the known relationship between the two parameters (Ingamells and Switzer, 1973). The homogeneity of gold was then determined from tables of factors for two-sided tolerance limits for normal distributions. The high level of repeatability indicated by the low coefficients of variation in Tables 2 and 3 (particularly the 0.5 gram Becquerel data) is consistent with the very narrow calculated tolerance interval and is confirmation of the excellent homogeneity of gold in OREAS 62Pa.

Table 6. Recommended values and tolerance intervals.

Constituent	Recommended value	Tolerance interval 1-α=0.99, ρ=0.95	
		Low	High
Gold, Au (ppm)	9.64	9.61	9.66
Silver, Ag (ppm)	18.4	18.1	18.7

PARTICIPATING LABORATORIES

Acme Analytical Laboratories, Vancouver, BC, Canada
Activation Laboratories, Ancaster, Ontario, Canada
ALS Chemex, Orange, NSW, Australia
ALS Chemex, Santiago, Chile
ALS Chemex Laboratories Pty Ltd, Val d'Or, Quebec, Canada
ALS Chemex, North Vancouver, BC, Canada
ALS Chemex, Sparks, Nevada, USA
Amdel Laboratories Ltd, Thebarton, SA, Australia
Amdel Laboratories Ltd, Orange, NSW, Australia

Ammtec Limited, Balcatta, WA, Australia
Becquerel Laboratories, Lucas Heights, NSW, Australia
Genalysis Laboratory Services Pty Ltd, Maddington, WA, Australia
Intertek Testing Services, Jakarta, Indonesia
McPhar Geoservices (Phil.) Inc., Makati, Philippines
OMAC Laboratories, Loughrea. Co. Galway, Ireland
Standard and Reference Laboratories, Malaga, WA, Australia
Ultra Trace, Canning Vale, WA, Australia

PREPARER AND SUPPLIER OF THE REFERENCE MATERIAL

The gold ore reference material, OREAS 62Pa has been prepared and certified and is supplied by:

Ore Research & Exploration Pty Ltd
6-8 Gatwick Road
Bayswater North, VIC 3153
AUSTRALIA

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Email	info @ore.com.au	Web	www.ore.com.au

It is available in unit sizes of 60g laminated foil packets.

INTENDED USE

OREAS 62Pa is a reference material intended for the following:

i) for the calibration of instruments used in the determination of the concentration of gold;
ii) for the verification of analytical methods for gold;
iii) for the preparation of secondary reference materials of similar composition;
iv) as an arbitration sample for commercial transactions.

STABILITY AND STORAGE INSTRUCTIONS

OREAS 62Pa has been prepared from sulphide-poor epithermal Au-Ag ore. The robust foil laminate film used to package it is an effective barrier to oxygen and moisture and the sealed CRM is considered to have long-term stability under normal storage conditions.

INSTRUCTIONS FOR THE CORRECT USE OF THE REFERENCE MATERIAL

The recommended values for OREAS 62Pa refer to the concentration levels of gold and silver in packaged form. Drying in air to constant mass at 105^0C has established a hygroscopic moisture content of 1.11%. If the reference material is dried by the user prior to analysis, the recommended value stated herein should be corrected to the moisture-free basis.

LEGAL NOTICE

Ore Research & Exploration Pty Ltd has prepared and statistically evaluated the property values of this reference material to the best of its ability. The Purchaser by receipt hereof releases and indemnifies Ore Research & Exploration Pty Ltd from and against all liability and costs arising from the use of this material and information.

CERTIFYING OFFICER: Dr Paul Hamlyn

ACKNOWLEDGMENTS

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REFERENCES

Ingamells, C. O. and Switzer, P. (1973), Talanta 20, 547-568.

ISO Guide 35 (1985), Certification of reference materials - General and statistical principals.

ISO Guide 3207 (1975), Statistical interpretation of data - Determination of a statistical tolerance interval.

APPENDIX II

Summary of Surface Soil, Soil Auger, Rock and Rock Trench Sample Locations, Descriptions and Results

SampleID	Sample	NAT_North	NAT_East	Slope_Dir	Colour_Sediment	Au_ppb	Ag_ppm	As_ppm	Bi_ppm	Cu_ppm	Hg_ppm	Mo_ppm	Pb_ppm	Sb_ppm	Zn_ppm
68390	soil	5524331.04	653738.1	SW	Brown	5.3	0.5	2.8	0.1	15.8	0.05	1.2	7.6	0.4	108
68392	Soil	5524330.6	653735.2	W	Brown	30.2	0.6	4.1	0.05	23.3	0.02	0.7	7.2	0.5	64
68395	Soil	5524320	653735	W	Brown	11.1	0.3	1.9	0.1	13	0.04	0.8	7.3	0.3	84
68397	soil	5524320	653729	S	Brown	10.4	0.3	1.8	0.1	15.6	0.03	0.8	7.8	0.4	55
68399	Soil	5524320	653724	S	Brown	13.2	0.2	2.4	0.1	16.1	0.03	0.9	8.3	0.4	85
73953	Soil	5524320	653716	E	Black	5.9	0.3	2.6	0.2	28.7	0.11	2.6	17.2	0.3	449
73955	Soil	5524349.31	653733.2	S	Brown	32.2	0.2	2.2	0.1	14.3	0.05	0.6	8.2	0.4	66
73957	Soil	5524363.9	653749.4	W	Brown	110.2	0.3	2	0.1	14.5	0.05	0.7	9.1	0.4	91
73973	Soil	5524363.8	653746.4	W	Brown	29.8	0.3	1.5	0.1	14	0.03	0.6	7.1	0.3	104
73975	Soil	5524396	653801	E	Brown	41.6	0.4	2.2	0.1	9.4	0.05	0.7	7.1	0.2	134
73978	Soil	5524396	653808		Brown	21.5	0.3	2.5	0.1	10.7	0.06	0.7	11.6	0.3	116
77821	Soil	5524395.8	653793.1	E	Brown	5.9	0.3	1.5	0.1	10.8	0.02	0.5	10.3	0.2	129
77823	Soil	5524395	653717	SW	Brown	12.5	0.6	1.5	0.05	8.5	0.03	0.5	8.3	0.4	84
77825	Soil	5524395.5	653736.1	S	Brown	3	0.2	1.6	0.05	8.7	0.03	0.6	8.3	0.3	57
77828	Soil	5524395.1	653707	W	Light brown	5.9	0.2	1.2	0.05	7.9	0.05	0.6	8.3	0.3	91
77830	Soil	5524503	653724	N	Brown	0.25	0.1	1.1	0.05	7.6	0.02	0.5	7.9	0.3	56
77832	Soil	5524501.6	653651.1	NW	Brown	0.25	0.05	1.5	0.05	8.3	5.00E-03	0.5	7.8	0.4	53
77834	Soil	5524517.2	653654.5		Brown	16.9	0.3	2	0.05	12.5	0.02	0.6	9.8	0.3	46
77836	Soil	5524511	653636		Brown	0.9	0.05	1.7	0.05	8.1	0.02	0.5	8.8	0.5	38
77838	Soil	5524522.9	653662.7		Brown	60.6	0.5	2.3	0.1	9.5	0.03	0.6	8.6	0.3	87
77840	Soil	5524458.6	653645.4	East	Brown	3.3	0.1	2.4	0.05	10.9	0.03	0.7	7.3	0.4	50
77842	Soil	5524459.67	653669.18	West	Brown	20	0.1	2.2	0.1	11.3	0.02	0.6	6.9	0.3	74
77844	Soil	5524460.78	653689.15	West	Brown	1.3	0.05	1.8	0.05	7.2	0.01	0.4	5.7	0.4	42
77846	Soil	5524501.3	653654.8		Brown	0.6	0.05	1.5	0.05	9.2	0.01	0.5	5.8	0.3	46
77848	Soil	5524461.89	653711.19	West	Brown	9.2	0.4	2	0.05	10.6	0.03	0.5	7.2	0.3	56
77850	Soil	5524462.85	653730.07	West	Brown	8.3	0.4	2.2	0.05	9	0.03	0.6	6.7	0.4	60
77854	Soil	5524465	653752	Northeast	Light Brown	32.3	0.5	2.8	0.1	14.6	0.03	0.5	6.7	0.4	70
77856	Soil	5524466.05	653770.05	Northeast	Brown	0.25	0.2	3.7	0.05	16.6	0.02	0.6	6.2	0.5	61
77858	Soil	5524467.63	653790.02	North	Dark Brown	2.4	0.4	3.1	0.05	11.5	0.02	0.6	6.7	0.3	69
77860	Soil	5524495	653787	East	Dark Brown	3.6	0.5	6.3	0.1	12.3	0.05	0.6	8.6	0.4	75
77862	Soil	5524495.2	653799.6	East	Dark Brown	11.9	0.2	3.1	0.05	12	0.03	0.5	7.2	0.4	59
77864	Soil	5524495.21	653809.7	East	Brown	0.7	0.2	2.2	0.05	12.1	0.03	0.6	7.9	0.3	76
77955	Soil	5522281	655243	West	Light Brown	0.9	0.05	1.4	0.05	6.7	0.01	0.5	5.2	0.2	43
77956	Soil	5522989	655806		Black	6.3	0.1	2.6	0.05	35.6	0.06	0.4	12.1	0.5	47
77957	Soil	5522576	656335	West	Light Brown	0.25	0.05	3	0.1	8.9	0.02	0.5	6	0.2	55
80700	Soil	5523700	653400		Light Brown	2.7	0.05	2.2	0.05	10	0.01	0.6	6.6	0.4	52
80702	Soil	5523700	653450		Brown	2.1	0.05	2.7	0.05	14.6	0.05	0.6	7.7	0.3	68
80703	Soil	5523700	653500		Dark Brown	1.1	0.05	2.9	0.1	23.6	0.03	0.6	7.5	0.3	86
80704	Soil	5523700	653550		Brown	3.5	0.05	2.9	0.05	15.1	0.04	0.7	6.9	0.3	52
80705	Soil	5523700	653600		Brown	2	0.05	1.9	0.05	9	0.06	0.9	8.7	0.4	37
80706	Soil	5523700	653650		Light Brown	1	0.1	2.4	0.05	20	0.1	0.5	7.6	0.3	54
80707	Soil	5523700	653700		Light Brown	1	0.05	1.4	0.05	8.3	0.02	0.5	5	0.2	65
80708	Soil	5523700	653750		Light Brown	3.5	0.05	2	0.05	8.1	0.06	0.8	8.3	0.3	82
80709	Soil	5523700	653800			1.1	0.05	1.8	0.05	14.1	0.03	0.6	6.5	0.2	89
80710	Soil	5523700	653850	South		1.2	0.05	1.6	0.05	14.7	0.05	0.8	7.9	0.2	102
80711	Soil	5523700	653900		Dark Brown	4.9	0.4	3.9	0.05	32.2	0.08	0.9	9.3	0.3	84
80712	Soil	5523700	653950		Brown	2.1	0.1	3.5	0.05	24.4	0.02	0.7	8.8	0.3	79
80713	Soil	5523700	654000		Light Brown	0.25	0.05	2.6	0.05	20.8	0.03	0.8	8.7	0.3	84
80714	Soil	5523700	654050		Dark Brown	1.3	0.05	2.7	0.05	20.3	0.02	0.6	7	0.3	53
80715	Soil	5523700	654100		Light Brown	77.6	1.9	4.9	0.05	13.5	0.07	0.8	7.7	0.5	121
80716	Soil	5524700	652100		Light Brown	0.25	0.05	1.2	0.05	5.7	0.02	0.7	6.9	0.1	30
80717	Soil	5524700	652150		Light Brown	14.7	0.05	6.8	0.1	6.1	0.02	0.6	8.3	0.2	49
80718	Soil	5524700	652200		Light Brown	0.8	0.05	9.2	0.1	7.5	0.04	0.4	6.7	0.2	75
80719	Soil	5524700	652250		Dark Brown	4.7	0.05	3.9	0.1	13.5	0.02	0.7	8.8	0.3	55

SampleID	Sample	NAT_North	NAT_East	Slope_Dir	Colour_Sediment	Au_ppb	Ag_ppm	As_ppm	Bi_ppm	Cu_ppm	Hg_ppm	Mo_ppm	Pb_ppm	Sb_ppm	Zn_ppm
80720	Soil	5524700	652300			0.7	0.05	2.3	0.05	7.2	0.02	0.5	8.2	0.1	44
80721	Soil	5524700	652350		Brown	1.6	0.05	6.8	0.1	8.4	0.02	0.5	8.4	0.3	89
80722	Soil	5524700	652400			0.25	0.05	1.6	0.05	5.9	0.01	0.4	5.8	0.2	39
80723	Soil	5524700	652450			1.6	0.05	2.5	0.05	4.8	0.02	0.3	7.1	0.2	50
80724	Soil	5524700	652500			5.6	0.05	1.5	0.05	7.3	5.00E-03	0.5	5.9	0.3	44
80725	Soil	5524700	652550			0.9	0.05	3.9	0.05	6.5	0.02	0.5	8.3	0.7	48
80727	Soil	5524700	652600			0.5	0.05	1.9	0.05	3.6	5.00E-03	0.2	6.8	0.4	32
80728	Soil	5524700	652650		Light Brown	0.5	0.05	1.3	0.05	7.6	5.00E-03	0.4	5.8	0.3	35
80729	Soil	5524700	652700			0.6	0.05	1.9	0.05	16.2	0.02	0.3	6	0.3	22
80730	Soil	5524700	652750		Brown	1.8	0.05	1.1	0.05	13.5	0.01	0.3	5.2	0.2	43
80731	Soil	5524700	652800		Brown	0.25	0.05	1.4	0.05	9.3	0.01	0.6	5.8	0.2	62
80732	Soil	5524700	652850		Dark Brown	0.7	0.05	1.4	0.05	8.9	0.01	0.4	6.4	0.2	49
80750	Soil	5523800	653750	South	Grey	4.1	0.05	1.6	0.05	12.9	0.03	0.7	6.5	0.2	63
80751	Soil	5523800	653800	Southwest	Light Brown	0.25	0.05	1.9	0.05	12.5	0.02	0.6	6.2	0.3	67
80752	Soil	5523800	653850	South	Dark Brown	2.4	0.05	3.7	0.05	23.5	0.04	0.8	8.5	0.4	69
80753	Soil	5523800	653900	Southwest	Brown	4.3	0.05	4	0.05	18.8	0.02	0.6	6.8	0.4	64
80754	Soil	5523800	653950	Southwest	Brown	4.2	0.2	4.1	0.05	23.8	0.03	0.8	6.9	0.4	64
80755	Soil	5523800	654000	Southeast	Grey	5.3	0.05	3.5	0.05	14.6	0.04	1	6.9	0.3	60
80756	Soil	5523800	654050	Southeast	Dark Brown	2	0.05	3.6	0.1	15.7	0.04	0.6	8.1	0.3	80
80757	Soil	5523800	654100	Southeast	Grey	4.5	0.05	2.9	0.1	14.5	0.07	0.7	8.2	0.2	140
80758	Soil	5523800	654150	Southwest	Brown	6.6	0.05	2.9	0.05	13.4	0.02	0.6	6.7	0.7	46
80759	Soil	5523800	654200	West	Grey	2.4	0.05	1.6	0.05	8	0.02	0.6	5.9	0.4	60
80760	Soil	5523800	654250	South		0.6	0.05	2	0.05	8.4	0.02	0.4	5.1	0.3	60
80761	Soil	5523750	654250	Southeast		1.4	0.05	2.5	0.05	9.5	0.02	0.5	4.9	0.4	45
80762	Soil	5523750	654200	Southwest		3.4	0.05	1.8	0.05	6.9	0.02	0.6	4.7	0.3	56
80763	Soil	5523750	654150	Southeast	Dark Brown	2.7	0.3	4.8	0.1	27.5	0.07	0.9	9.5	0.4	141
80764	Soil	5523750	654100	Southeast	Brown	2	0.05	2.3	0.05	16.6	0.02	0.7	6	0.3	87
80765	Soil	5523750	654050	Southeast	Grey	3.3	0.05	2.9	0.05	12.6	0.02	0.6	6	0.4	48
80766	Soil	5523750	654000	South	Brown	2.4	0.05	4.8	0.05	17.8	0.09	0.6	8.4	0.4	101
80767	Soil	5523750	653950	Southwest	Grey	2.3	0.05	4.2	0.05	20.8	0.02	0.7	7.1	0.4	63
80768	Soil	5523750	653900	South	Brown	1.5	0.1	3.6	0.05	32	0.04	0.7	7.2	0.4	77
80769	Soil	5523750	653850	Southwest	Dark Brown	0.25	0.05	3.4	0.2	17.6	0.06	0.8	9.6	0.3	76
80770	Soil	5523750	653800	South	Light Brown	5.2	0.05	2.1	0.05	13.5	0.04	0.9	6.9	0.2	85
80771	Soil	5523750	653750	South	Grey	19.5	0.05	1.7	0.05	9.2	0.02	1.6	6.2	0.3	61
80772	Soil	5523900	653700		Dark Brown	2.2	0.2	3.2	0.1	42	0.03	0.8	7.4	0.3	100
80773	Soil	5523900	653650	South	Dark Brown	2.6	0.2	2.9	0.05	33.1	0.03	0.6	7.1	0.3	75
80774	Soil	5523900	653600	Southeast	Grey	2.5	0.1	3.4	0.05	20.7	0.02	0.7	8.9	0.4	71
80775	Soil	5523700	654150	East	Light Brown	26.7	0.05	3.8	0.05	14.5	0.04	0.6	6.4	0.5	55
80777	Soil	5523700	654200	Southeast	Light Brown	4.6	0.05	3.5	0.05	10.9	0.02	0.6	5.6	0.5	54
80778	Soil	5523700	654250	South	Grey	1.6	0.05	3.6	0.05	9.8	0.02	0.4	5.7	0.4	56
80779	Soil	5523800	653700	South	Brown	2.1	0.05	1.8	0.05	14.5	0.04	0.6	5.5	0.2	82
80780	Soil	5523800	653650	South		1.3	0.05	2.5	0.05	21.5	0.04	0.8	7.5	0.3	58
80781	Soil	5523800	653600	South	Brown	0.9	0.05	2.5	0.05	17.4	0.02	0.6	5.7	0.2	69
80782	Soil	5523800	653550	Southeast		2.7	0.05	3.5	0.1	19.3	0.04	0.8	7.4	0.4	54
80783	Soil	5523800	653500	Southeast	Dark Brown	1	0.05	3.2	0.1	17.4	0.05	0.8	7.5	0.3	84
80784	Soil	5523800	653450	Southeast	Dark Brown	1.4	0.05	3.7	0.1	27.6	0.03	0.6	9.9	0.4	58
80785	Soil	5523800	653400		Dark Brown	1	0.05	4.7	0.1	22.2	0.03	1	8.3	0.4	67
80786	Soil	5523900	653550		Brown	0.25	0.05	2	0.05	9.7	0.01	0.9	5.8	0.3	39
80787	Soil	5523900	653500	Southwest	Light Brown	5.7	0.05	2.7	0.1	22.2	0.03	0.8	6.9	0.4	54
80788	Soil	5523900	653450	South	Brown	0.25	0.05	3.3	0.05	15.6	0.03	0.8	7	0.4	63
80789	Soil	5523900	653400	East	Brown	0.6	0.05	3.8	0.05	18.1	0.03	0.6	8.3	0.4	61
80791	Soil	5523900	653350	South	Dark Brown	1.1	0.2	4.1	0.05	27.1	0.04	0.7	8.7	0.5	56
80792	Soil	5523900	653300	South-Southeast	Grey	4.6	0.05	5	0.05	13.5	0.02	0.6	6.1	0.7	42
80793	Soil	5524300	653500		Dark Brown	3.7	0.4	3.4	0.1	28.4	0.05	0.8	8.8	0.5	80

SampleID	Sample	NAT_North	NAT_East	Slope_Dir	Colour_Sediment	Au_ppb	Ag_ppm	As_ppm	Bi_ppm	Cu_ppm	Hg_ppm	Mo_ppm	Pb_ppm	Sb_ppm	Zn_ppm
80794	Soil	5524300	653450	East	Light Brown	1.9	0.1	8.3	0.1	25.4	0.03	1.1	9.6	0.4	106
80799	Soil	5523950	652550	West	Light Brown	2.7	0.05	2.1	0.05	10.9	0.02	0.8	6	0.3	51
80800	Soil	5524000	653700	Southwest	Brown	0.9	0.05	3.6	0.1	23.2	0.04	0.7	8.1	0.3	111
80801	Soil	5524000	653650	Southwest	Dark Brown	2.3	0.2	2.8	0.05	23.8	0.04	0.6	7.4	0.3	71
80802	Soil	5524000	653750	Southwest	Dark Brown	1	0.2	4.7	0.05	27.8	0.03	0.7	7.5	0.3	85
80803	Soil	5524000	653800	Southwest	Brown	0.8	0.1	4.9	0.05	21.2	0.02	0.7	7.5	0.4	81
80804	Soil	5524000	653850	South	Brown	5	0.1	4.5	0.05	20.6	0.03	0.8	7.6	0.4	75
80806	Soil	5524000	653950	Southeast	Brown	1.5	0.2	4.3	0.1	21.2	0.05	0.4	7.5	0.3	85
80807	Soil	5524000	654000	South	Brown	1.4	0.1	4.4	0.1	20.3	0.03	0.5	7.6	0.4	63
80808	Soil	5524000	654050	Southeast	Dark Brown	0.8	0.1	4.8	0.05	14.2	0.02	0.5	7.1	0.3	77
80809	Soil	5524000	654100	West	Brown	0.25	0.05	2	0.05	9.8	0.02	0.6	5.9	0.3	29
80810	Soil	5524000	654150	Southwest	Light Brown	2.2	0.05	2	0.05	9.7	0.01	0.5	5.1	0.2	75
80811	Soil	5524000	654200	South	Light Brown	2.1	0.05	5	0.05	23.9	0.04	0.5	5.7	0.5	45
80812	Soil	5524000	654250	South	Brown	0.5	0.05	1.9	0.05	7.9	0.03	0.9	6.6	0.2	104
80813	Soil	5524100	653650	South	Brown	2.4	0.2	4.2	0.1	26.4	0.03	0.7	8.3	0.4	78
80814	Soil	5524100	653700	South	Brown	30.4	0.05	5.1	0.05	25.9	0.02	0.8	8	0.4	86
80815	Soil	5524100	653750	South	Brown	1.9	0.2	5.9	0.1	23.3	0.03	0.7	8.5	0.5	103
80816	Soil	5524100	653800	South	Brown	5.2	0.3	4.3	0.1	25.4	0.05	0.9	8.3	0.4	68
80817	Soil	5524100	653850	South	Brown	1.5	0.1	3.6	0.05	17.5	0.04	1	7	0.3	90
80818	Soil	5524100	653900	South	Brown	5.1	0.1	3.9	0.05	22.4	0.02	0.6	6.1	0.3	76
80819	Soil	5524100	653950	North	Dark Brown	1.2	0.05	3.6	0.05	13.4	0.01	0.5	6.9	0.4	46
80820	Soil	5524100	654000			0.25	0.05	2	0.05	12.6	0.02	0.5	5.5	0.3	92
80821	Soil	5524100	654050	South	Brown	1.9	0.1	7	0.05	16.1	0.03	0.6	6.8	0.4	73
80822	Soil	5524100	654100	South	Light Brown	1.5	0.05	4.4	0.05	20.4	0.04	0.5	6	0.5	57
80823	Soil	5523950	653700	South	Brown	0.9	0.1	3.9	0.05	27.2	0.03	0.7	7.2	0.3	94
80825	Soil	5523950	653800	South	Dark Brown	1.5	0.1	3.2	0.05	20.6	0.04	0.7	7.6	0.3	83
80827	Soil	5523950	653850	South	Brown	1.6	0.2	3.3	0.05	18.4	0.04	0.7	8.6	0.3	76
80828	Soil	5523950	653900	North	Brown	3	0.05	2.5	0.05	12.3	0.02	0.6	6.6	0.3	55
80829	Soil	5523950	653950	East	Brown	1	0.1	3	0.1	16.5	0.04	0.5	7.7	0.3	144
80830	Soil	5523950	654000	Southeast	Brown	1.3	0.05	2.7	0.05	12.2	0.02	0.5	6	0.3	74
80831	Soil	5523950	654050	South	Brown	0.8	0.05	4.5	0.05	14.6	0.02	0.5	7	0.5	50
80832	Soil	5523950	654100	Southwest	Brown	0.25	0.05	2.4	0.05	9.4	5.00E-03	0.5	5.2	0.3	52
80833	Soil	5523950	654150	Southwest	Brown	1.5	0.05	1.3	0.05	5	5.00E-03	0.4	4.7	0.2	54
80834	Soil	5523950	654200	South	Light Brown	0.9	0.05	1.8	0.05	7	0.02	0.6	5.7	0.3	66
80835	Soil	5523950	654250	South	Brown	0.8	0.05	2.9	0.05	13.3	0.02	0.7	6.5	0.3	53
80836	Soil	5523900	654100	South	Brown	2	0.05	5.8	0.1	8.5	0.07	0.4	10.2	0.5	42
80837	Soil	5523900	654150	South	Brown	1.3	0.05	1.7	0.05	7	5.00E-03	0.6	4.6	0.2	46
80838	Soil	5523900	654200	South	Brown	0.25	0.05	1.5	0.05	7.2	0.01	0.5	4.8	0.2	53
80839	Soil	5523900	654250	Southeast	Brown	0.25	0.05	2.5	0.05	8.4	5.00E-03	0.6	5.1	0.3	47
80840	Soil	5524000	652750	West	Brown	1.3	0.05	2.4	0.05	14.5	0.03	0.8	6.9	0.3	45
80841	Soil	5524000	652700	West	Brown	9	0.05	3	0.05	10	0.04	0.8	7.6	0.4	41
80842	Soil	5524000	652650	Southwest	Brown	1.5	0.05	3.2	0.05	12.4	0.03	0.6	5	0.4	37
80843	Soil	5524000	652600	South	Light Brown	3.9	0.05	4.4	0.05	22	0.02	0.6	6.6	0.4	46
80844	Soil	5524000	652550	West	Brown	5.7	0.05	1.7	0.05	7.7	0.02	0.7	6.3	0.2	47
80845	Soil	5524000	652500	Southwest	Brown	2.1	0.05	1.6	0.05	12.4	0.02	0.6	5.7	0.2	46
80846	Soil	5524000	652450	West	Brown	3.9	0.05	2.4	0.05	13.1	0.03	1.3	6.7	0.3	44
80847	Soil	5524000	652400	Southwest	Brown	5.8	0.1	2.3	0.05	14.2	0.02	0.9	7	0.2	80
80848	Soil	5524000	652350	Southwest	Brown	4	0.05	3.1	0.05	12.8	0.04	0.9	7.7	0.3	60
80849	Soil	5524000	652300	South	Brown	1.8	0.05	2.3	0.05	18.9	0.06	1	10	0.2	115
80850	Soil	5524150	653700	South	Dark Brown	0.7	0.05	4.2	0.05	19.7	0.03	0.9	9.6	0.5	87
80851	Soil	5524150	653650	Southwest	Brown	1.4	0.1	2.7	0.05	23.7	0.05	1.1	8.3	0.3	107
80852	Soil	5523900	653750	South	Dark Brown	2.5	0.1	2.8	0.1	27.9	0.03	0.7	7.8	0.3	90
80853	Soil	5523900	653800	East	Dark Brown	2.9	0.1	2.9	0.05	19.7	0.13	0.9	7	0.2	94
80854	Soil	5523900	653850	Northwest	Brown	1.2	0.05	2.7	0.1	20	0.03	0.8	8.8	0.3	54

SampleID	Sample	NAT_North	NAT_East	Slope_Dir	Colour_Sediment	Au_ppb	Ag_ppm	As_ppm	Bi_ppm	Cu_ppm	Hg_ppm	Mo_ppm	Pb_ppm	Sb_ppm	Zn_ppm
80855	Soil	5523900	653900	Southwest		1.4	0.05	2.4	0.05	14.9	0.02	1	7.8	0.3	55
80856	Soil	5523900	653950	East	Greyish Brown	1.6	0.05	3.8	0.05	14.8	0.04	0.7	7.5	0.3	55
80857	Soil	5523900	654000	East	Light Brown	0.6	0.05	4	0.05	14.7	0.02	0.6	8	0.3	66
80858	Soil	5523900	654050	Northeast	Light Brown	0.9	0.1	4.4	0.05	28.8	0.04	0.9	8.7	0.2	64
80860	Soil	5524513.95	653877.91	Southeast	Brown	0.9	0.05	4.7	0.05	9.8	0.04	0.5	7.3	0.5	57
80862	Soil	5524514.16	653918.03	Southeast	Brown	2.5	0.05	3.8	0.05	8.1	0.03	0.5	6.8	0.4	82
80864	Soil	5524354.99	653893.22	East	Dark Brown	125.2	1.3	9.1	0.1	12.3	0.06	1.7	12.4	0.3	127
80866	Soil	5524355.05	653884.11	East	Light Brown	3.1	0.1	3.6	0.1	10.9	0.04	0.9	10.1	0.3	74
80868	Soil	5524355	653902	East-Southeast	Dark Brown	97.4	0.3	4.9	0.1	10	0.03	1	7.8	0.3	86
80870	Soil	5524282.41	653906.04	East	Dark Brown	1.2	0.05	4.7	0.05	12.4	0.03	0.6	7.2	0.4	60
80872	Soil	5524280	653926	Southeast	Brown	0.25	0.05	4.1	0.05	10.1	0.02	0.4	5.2	0.5	47
80874	Soil	5524284.58	653886.05	Northeast	Dark Brown	41.9	0.6	6.7	0.05	20.1	0.04	0.7	7.2	0.4	47
80877	Soil	5524298	653853	East	Brown	14.2	0.2	3.2	0.05	10.8	0.04	0.5	5.2	0.4	41
80879	Soil	5524296	653827	East	Brown	109.8	0.3	5.6	0.1	15.3	0.03	0.7	9.4	0.3	112
80881	Soil	5524295	653806	Southeast	Dark Brown	3.1	0.2	6.2	0.1	16.6	0.05	1.5	9.9	0.3	113
80883	Soil	5524295	653782	Southeast	Brown	6.2	0.4	5.4	0.1	16	0.03	1	9.2	0.5	96
80885	Soil	5524279.16	653755.89	Southwest	Brown	10.1	0.3	2.5	0.05	12.7	0.02	0.6	5.8	0.4	64
80887	Soil	5524276.34	653730.87	South	Dark Brown	17.2	0.9	3.5	0.05	17.4	0.03	0.7	7.4	0.4	61
80889	Soil	5524273.69	653705.84	Southwest	Brown	8.9	0.3	2.8	0.05	13.7	0.02	0.7	6.7	0.4	60
80891	Soil	5524271	653681	Southwest	Dark Brown	1.8	0.1	3.3	0.05	12.9	0.03	0.6	6.5	0.4	49
80893	Soil	5523898.66	653999.21	East	Brown	2.5	0.1	3.9	0.05	13.4	0.03	0.6	7.3	0.4	61
80895	Soil	5523897.53	654024.25	East	Dark Brown	0.9	0.05	3.5	0.1	14.6	0.12	0.6	10.6	0.2	75
80897	Soil	5523896.83	654049.28	North	Brown	0.6	0.05	7.9	0.05	23	0.03	0.6	6.1	0.4	57
80900	Soil	5524000	652250	West	Dark Brown	0.25	0.05	2.9	0.2	24.6	0.06	0.9	12.1	0.3	188
80902	Soil	5524000	652200	West	Brown	1.7	0.05	3.2	0.1	11.6	0.06	1.1	8.7	0.3	72
80903	Soil	5524000	652150	West	Brown	0.25	0.2	7.8	0.3	47.4	0.09	1.3	15.4	1.3	163
80904	Soil	5524000	652100	West	Dark Brown	0.6	0.1	2.2	0.1	28.4	0.03	0.6	7.5	0.3	62
80905	Soil	5524000	652050	Southwest	Brown	0.25	0.05	3.9	0.2	13.4	0.03	2.6	10.1	0.2	62
80906	Soil	5524100	652050	Southwest	Black	1.4	0.2	2.5	0.1	41.4	0.04	0.5	9.4	0.3	22
80907	Soil	5524100	652100	West	Brown	1.8	0.1	6.4	0.1	21.1	0.02	1	10.6	0.4	90
80908	Soil	5524100	652150	West	Brown	0.9	0.1	5.4	0.1	21.5	0.03	1.7	11.5	0.3	82
80909	Soil	5524100	652200	West	Brown	3.8	0.1	6.4	0.1	18.5	0.03	1.3	9.6	0.4	77
80910	Soil	5524100	652250	South	Brown	0.7	0.05	3	0.1	23.7	0.04	1.3	9.8	0.3	76
80911	Soil	5524100	652300	West	Brown	0.25	0.05	1.8	0.1	18.8	0.06	1	10.3	0.2	276
80912	Soil	5524100	652300	East	Brown	1	0.05	3	0.1	23.3	0.03	0.8	9.4	0.3	111
80913	Soil	5524100	652350	East	Brown	5.2	0.05	3.9	0.1	19.9	0.04	1	7.6	0.3	83
80914	Soil	5524100	652400	Southwest	Brown	2.7	0.2	5.9	0.1	27.3	0.04	1	10.4	0.3	118
80915	Soil	5524100	652450	Southwest	Brown	3.8	0.3	3.9	0.05	27.2	0.05	0.8	7.8	0.4	55
80916	Soil	5524100	652500	Southwest	Dark Brown	16.4	0.3	4.2	0.1	32.9	0.05	0.5	8.4	0.5	75
80917	Soil	5524100	652550	West	Brown	1.1	0.2	4	0.1	31.2	0.06	0.6	8.8	0.4	78
80918	Soil	5524100	652600	Southwest	Dark Brown	5.4	0.3	4.2	0.05	31.6	0.04	0.5	7.6	0.6	53
80919	Soil	5524100	652650	Southwest	Black	34.5	0.2	4.7	0.1	30.7	0.05	0.7	8.7	0.4	62
80920	Soil	5524100	652700	Southwest	Dark Brown	0.8	0.2	3.5	0.05	27.9	0.07	0.6	7.6	0.3	53
80921	Soil	5524100	652750	Southwest	Brown	0.8	0.2	3.5	0.1	23.3	0.06	0.8	8.6	0.3	83
80923	Soil	5524048	652299	Southeast	Brown	9.8	0.1	3.8	0.05	16.9	0.01	0.7	6.1	0.4	50
80925	Soil	5524049	652261	East	Grey	2.4	0.1	3.4	0.05	17.7	0.02	0.6	7.3	0.4	57
80927	Soil	5524149	652392	East	Brown	9.3	0.1	5.6	0.05	18.8	0.05	1.5	7.5	0.3	72
80929	Soil	5524149.43	652417.07	West	Dark Brown	8.4	0.5	6	0.1	32.3	0.04	1.3	10.2	0.4	118
80933	Soil	5524148.42	652341.8	East	Brown	6.2	0.05	2.6	0.05	13.3	0.02	0.9	6.9	0.4	70
80935	Soil	5524352.24	652222.83	East	Dark Brown	32	0.3	9.6	0.1	18.2	0.03	5.3	9.9	0.5	56
80937	Soil	5524352.13	652247.91	South	Dark Brown	51.1	0.4	6.3	0.1	22.5	0.05	5.4	10.4	0.4	163
80939	Soil	5524352.2	652272.96	Southwest	Brown	21	0.5	6.2	0.1	20.3	0.02	3.5	8.7	0.4	90
80941	Soil	5524352.31	652298.03	Southwest	Brown	9.9	0.3	4.7	0.1	18.5	0.02	2	9.2	0.4	102
80943	Soil	5524350	652323	Southwest	Brown	32.6	0.3	3.4	0.05	15.3	0.03	2.8	8.4	0.3	76

SampleID	Sample	NAT_North	NAT_East	Slope_Dir	Colour_Sediment	Au_ppb	Ag_ppm	As_ppm	Bi_ppm	Cu_ppm	Hg_ppm	Mo_ppm	Pb_ppm	Sb_ppm	Zn_ppm
80944	Soil	5523900	652500	Southwest	Grey	2.8	0.05	2.4	0.05	12.6	0.02	0.6	5.9	0.4	52
80945	Soil	5523900	652550	Southwest	Dark Brown	2.8	0.05	2.1	0.05	14.6	0.04	1.1	7.3	0.3	53
80946	Soil	5523900	652600	West	Light Brown	5.9	0.05	2.1	0.05	11.1	0.01	0.5	6.1	0.4	51
80947	Soil	5523900	652650	West	Grey	0.25	0.05	1.3	0.05	10	0.03	0.9	6.4	0.3	50
80948	Soil	5523900	652700	West	Brown	1.2	0.05	1.9	0.05	10	0.13	1	8.6	0.3	60
80949	Soil	5523900	652750	West	Grey	2.9	0.2	2	0.05	21.8	0.05	0.4	7	0.4	43
80955	Soil	5523950	652300	West	Light Brown	10.2	0.05	3.6	0.05	15.9	0.04	0.7	7.8	0.4	68
80956	Soil	5523950	652250	East	Brown	1.4	0.05	3.5	0.05	18.3	0.02	1	7.4	0.3	85
80964	Soil	5523850	652200	Southeast	Dark Brown	3.9	0.1	4.5	0.05	20.4	0.04	1.6	7.8	0.3	90
80971	Soil	5523800	652509	Northwest	Dark Brown	1.7	0.3	4	0.05	45.9	0.2	0.8	10.2	0.5	61
80972	Soil	5523815	652551	North	Brown	0.25	0.05	1.9	0.05	15.2	0.05	0.9	7.6	0.2	52
80973	Soil	5523798	652604	Northwest	Light Brown	2.5	0.05	3	0.05	9.5	0.05	0.7	7.7	0.4	51
80974	Soil	5523800	652656	Northwest		1	0.05	2.3	0.05	11.4	0.06	0.9	10	0.3	74
80975	Soil	5523800	652700	West		1.9	0.05	2	0.05	9.7	0.02	0.6	5.8	0.3	44
80976	Soil	5523785	652757	West	Light Brown	2.3	0.05	1.6	0.05	8.2	0.03	0.7	7.5	0.3	51
80977	Soil	5523795	652418	West	Black	110.3	0.2	3	0.05	16.8	0.04	0.8	7	0.3	63
80978	Soil	5523806	652357	South	Light Brown	0.25	0.05	2.7	0.05	13.8	0.02	0.9	6.6	0.4	44
80979	Soil	5523793	652280	Southwest	Dark Brown	7	0.1	5.4	0.05	23.8	0.04	1.3	8	0.4	71
80980	Soil	5523797	652255	West	Dark Brown	2.6	0.05	3.4	0.05	14.2	0.03	1	7.1	0.3	67
80981	Soil	5523802	652139	Southeast	Brown	5	0.05	3.1	0.05	12.1	0.03	1.4	7.5	0.4	75
80982	Soil	5523792	652150	West	Brown	2.5	0.1	2.8	0.05	13.9	0.04	1.3	8.1	0.4	77
80983	Soil	5523800	652103	Southeast	Brown	1.7	0.05	3	0.1	20.9	0.02	1.1	8.2	0.3	79
80984	Soil	5523800	652050	East	Brown	0.25	0.1	3.3	0.1	45.5	0.11	0.5	13.7	0.2	216
81002	Soil	5523857	654005	Southeast	Brown	7.4	0.05	2.8	0.05	13.3	0.04	0.8	7.2	0.4	64
81004	Soil	5523855	654029	Northeast	Brown	1.3	0.1	3.2	0.05	16.8	0.04	0.6	6	0.3	89
81006	Soil	5523855	654058	South-Southeast	Brown	1.5	0.05	3.3	0.05	23.8	0.02	0.6	4.9	0.4	50
81008	Soil	5523856.15	654083.4	South	Brown	0.25	0.1	1.7	0.1	8.8	0.09	1	11.2	0.2	82
81010	Soil	5523857	654109	East	Grey	0.25	0.05	2.7	0.05	10.8	0.03	0.6	5.7	0.5	58
81012	Soil	5523849	654196	Southwest	Brown	1.4	0.3	5.3	0.05	18.2	0.02	0.6	6.5	0.5	41
81014	Soil	5523964	654088	West	Dark Brown	1.3	0.2	4.4	0.05	22.1	0.02	0.9	8	0.4	58
81016	Soil	5523964	654053.25	East	Brown	0.25	0.2	3.3	0.05	16.2	0.15	0.8	12	0.3	77
81018	Soil	5523964	654028.08	Southeast	Brown	5.2	0.4	6.7	0.05	21.2	0.03	0.6	8.5	0.6	72
81026	Soil	5523952	653554	South	Brown	0.25	0.05	3.7	0.05	20.2	0.05	0.6	6.4	0.4	55
81028	Soil	5523850	652450	West	Brown	30.7	0.05	2.9	0.05	15.2	0.06	1.3	10.2	0.3	93
81032	Soil	5523850.05	652475.18	South	Dark Brown	4	0.3	3.8	0.05	22.7	0.02	0.9	7.3	0.3	55
81034	Soil	5523851.06	652325.57	Southwest	Dark Brown	1.4	0.05	2.2	0.05	14.1	0.04	1.1	7.7	0.3	78
81036	Soil	5523850.97	652300.45	West	Brown	5	0.1	3.6	0.05	15.6	0.02	0.9	7.5	0.4	55
81038	Soil	5523850.97	652275.48	East	Brown	2.6	0.2	4.6	0.05	24.3	0.04	1.3	7.6	0.3	100
81040	Soil	5524051	652348	West	Brown	10.4	0.3	4.5	0.05	20.5	0.02	0.7	6.5	0.3	71
81042	Soil	5524050.77	652373.03	West	Dark Brown	3.9	0.1	3.5	0.05	19.7	0.04	0.8	7.6	0.2	77
81044	Soil	5524050.78	652398.2	West	Dark Brown	6.1	0.3	4.7	0.05	18.5	0.05	1.2	8.3	0.3	67
81046	Soil	5524050.31	652423.29	Southwest	Dark Brown	3.3	0.3	4	0.05	32.9	0.03	1	7.5	0.3	83
81048	Soil	5524051	652324	Southeast	Brown	7	0.2	4.3	0.05	24.1	0.05	1.2	9.6	0.3	84
81050	Soil	5523900	652450	South	Dark Brown	8.7	0.05	3.2	0.05	17.4	0.03	1.5	7.8	0.3	65
81051	Soil	5523900	652400	Southwest	Dark Brown	2.1	0.05	1.9	0.05	12.6	0.03	1.1	7.1	0.2	74
81052	Soil	5523900	652350	West	Brown	2.5	0.05	2.2	0.05	13.6	0.02	0.8	6.5	0.2	77
81053	Soil	5523900	652300	West	Light Grey	4.1	0.05	2.7	0.05	16.1	0.02	0.8	6.9	0.3	95
81054	Soil	5523900	652250	Southwest	Dark Brown	5.6	0.3	4.1	0.05	34.9	0.07	1	7.7	0.3	84
81055	Soil	5523900	652200	South	Dark Brown	5.2	0.05	3.3	0.1	19.3	0.06	1.7	8.5	0.2	100
81056	Soil	5523900	652150	West	Light Brown	0.25	0.05	4.4	0.5	18.1	0.11	2.1	32	0.2	107
81057	Soil	5523900	652100	West	Dark Brown	0.25	0.05	2.5	0.05	26.2	0.05	1.4	7.1	0.2	72
81058	Soil	5523900	652050	South	Dark Brown	2.4	0.2	2.9	0.05	28.9	0.2	2	8.5	0.7	29

SampleID	Sample_Ty	NAT_North	NAT_East	Local_Grid_ID	Slope_Dir	Colour	Comments	Au_ppb	Ag_ppm	As_ppm	Bi_ppm	Cu_ppm	Hg_ppm	Mo_ppm	Pb_ppm	Sb_ppm	Zn_ppm
68389	Soil auger	5524331.04	653738.1	Mik-2010	SW	Brown	GPS WPT: 64; Consistent slightly sticky (clay rich) brown soil. Located about 7.7 m @ 180 degrees azimuth from MK09-XT-04 sample 73934.	7.6	1	4.1	0.1	22.3	0.02	0.7	7.5	0.6	68
68391	Soil auger	5524330.6	653735.2	Mik-2010	W	Brown	Location measured 2.5 m down slope and due west from sample 68389 and 68390 AND measured 7.5 m N to center of trench MK09-XT-04 2 13.85 m (start of sample 73937)	29.3	1	4	0.1	22.5	0.03	0.7	13.3	0.4	67
68393	Soil auger	5524320	653737	Mik-2010	W	Light brown	GPS WPT: 65; Quite rocky-could not auger very deep. Boulders of volcaniclastic (local rock type). No qtz observed in rocks/boulders but some streaks and spots of red hematite.	55.6	0.8	2	0.1	11.3	0.04	0.8	9.4	0.2	147
68394	Soil auger	5524320	653735	Mik-2010	W	Brown	GPS WPT: 66; Fairly rocky-could not go deeper. Volcaniclastic rocks: found one 3 cm piece with 1 mm qtz veinlets.	29.4	1.2	1.7	0.05	11.7	0.04	0.8	8.6	0.3	87
68396	Soil auger	5524320	653729	Mik-2010	S	Brown	GPS Waypoint 67	27.9	1.2	3.6	0.05	22.2	0.02	0.8	7.8	0.5	59
68398	Soil auger	5524320	653724	Mik-2010	S	Light brown	Distinctly lighter colour in lower 15 cm of auger hole with some limonitic grains. Might be at or near bedrock interface.	27.9	1.1	7.1	0.1	30.6	0.02	0.8	9.8	0.5	68
73952	Soil auger	5524320	653716	Mik-2010	E	Black	Black organic rich, silty soil all the way down to ~37 cm. Quite rocky terrain. No difference between soil at op and bottom of hole.	25.6	1	4.8	0.1	19.5	0.06	1.5	12.7	0.3	180
73954	Soil auger	5524350.86	653732.5	Mik-2010	S	Brown	GPS WPT: 69; Middle of gully-immediately down slope and west of end of trench MK08-XT-02. Estimated GPS location; Sticky brown clay rich soil. Picked up apparent qtz fragment-tabular shape around 2 x 3x 1 cm in upper 30 to 50 cm of soil auger hole.	19.1	0.6	5.4	0.1	28.9	0.02	0.6	7.8	0.5	61
73956	Soil auger	5524363.9	653749.4	Mik-2010	W	Brown	Trying to hit bedrock/qtz vein seen at west ends of trenches MK08-XT-02 and -0. Hit rocks in hole but probably did not get to bedrock (?).; East side of gully ~9 m north of 0 m flag in trench MK08-02 and 2 m southeast of EB sample 73909 (qtz float); Trying to hit bedrock/qtz vein seen at west ends of trenches MK08-XT-02 and -0. Hit rocks in hole but probably did not get to bedrock (?).	53.5	1	2.6	0.1	18	0.04	0.7	8.3	0.4	78
73958	Soil auger	5524363.8	653746.4	Mik-2010	W	Brown	Sticky clay rich soil. Soil horizon same type to bottom of hole. Do not think bedrock was reached.; Located 3 m down slope from samples 73956 and 73957.	38.8	0.9	1.8	0.1	15.3	0.02	0.6	9.6	0.3	99
73974	Soil auger	5524396	653801	Mik-2010	E	Brown	GPS WPT: 72; Lots of small rocks in soil. Could only get down to ~35 cm- not to bedrock. Similar soil at top and bottom of hole.	59.4	2.1	2.3	0.1	14.3	0.04	0.4	13.6	0.2	109
73977	Soil auger	5524396	653808	Mik-2010		Brown	Lots of small rocks/pebbles including occasionally hematitic volcaniclastics. Could only penetrate to ~30 cm due to abundant small rocks/pebbles.	23.5	1.4	4.3	0.1	10	0.04	0.7	13.5	0.3	83
77820	Soil auger	5524395.8	653793.06	Mik-2010	E	Brown	GPS WPT: 73; 8 m due west of 73974; Similar soil from top to bottom, maybe slightly more clay & lighter colour at top; lots of small rocks/pebbles stopped hole at ~40 cm (did not hit bedrock).	27.5	5.8	2.4	0.05	14.7	0.02	0.5	12.6	0.2	121
77822	Soil auger	5524395	653717	Mik-2010	SW	Brown	GPS WPT: 74; keep gps location; Fairly consistent soil type at top and bottom of hole (sandier at top). Stopped at ~65 cm due to rocks/pebbles, probably not at bedrock. Overall not many rocks/pebbles and most were quite small.	18.1	1.4	5.1	0.1	25.9	0.03	0.5	16.8	0.5	72
77824	Soil auger	5524395.5	653736.1	Mik-2010	S	Brown	GPS WPT: 75; Middle of N-S gully, about 20 m north of west end of trench MK08-XT-01. Also 19 m east of 77822 and 58563; Sticky clay rich soil at bottom (vs. more silty + sandy at top of hole). Not many clasts , mostly small & fine . Hit rocks/pebbles at bottom of hole, probably not at bedrock.	4.6	1	2.9	0.1	15.9	0.03	0.6	10.1	0.3	71
77827	Soil auger	5524395.1	653707	Mik-2010	W	Light brown	GPS WPT: 77; 10 m west of 77822; Silty-sandy soil form top to bottom of hole. Small pebbles/rocks stopped hole before bedrock could be reached.	35.8	0.8	2.4	0.05	11.6	0.03	0.5	11	0.5	72
77829	Soil auger	5524503	653724	Mik-2010	N	Brown	GPS WPT: 78; Bottom of auger hole is more clay rich and siltier then top of hole but overall fairly consistent with gradational and subtle change only. Probable rocks/pebbles at bottom stopped hole (not at bedrock).	0.9	1.2	5.1	0.05	21.7	0.02	0.6	10.3	0.6	56

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77831	Soil auger	5524501.6	653651.1	Mik-2010	NW	Brown	GPS WPT: 79; 3.5 m west of relocated 78412 (749 ppb Au in soil).; Sticky clay rich soil at bottom of hole-more silty-sandy at top. Small rocks/pebbles probably stopped auger before bedrock. Noted one small clump of clay rick soil with spots of limonite in sample at bottom of hole.	99.4	0.5	5.3	0.05	17.9	0.02	0.6	8.3	0.6	57
77833	Soil auger	5524517.2	653654.5	Mik-2010		Brown	GPS WPT: 82; Chained 19.5 m at 252 degrees to 77835; Clay rich some (~30%) reddish brown material - Likely near C-horizon because of reddish brown colour change occurring at ~60 cm downhole.	6.8	0.5	5.6	0.05	26.7	0.04	0.5	10.9	0.5	48
77835	Soil auger	5524511	653636	Mik-2010		Brown	GPS WPT: 83; Fixed point from which relocations of 77833 and 77834, … were established by relative (chained) measurements in 2010.; Chained west at 252 degree azimuth from sample 77835 approximately 19.5 m to top of small 'whale back' ridge. Probably stopped auger by small rocks. A few light greenish-white/yellowish clasts in lower part of hole suggest bay be near bedrock(?). Fairly consistent soil profile overall.	2.7	1	7.9	0.05	34.8	0.07	0.6	9.2	0.6	57
77837	Soil auger	5524522.9	653662.7	Mik-2010		Brown	Fairly consistent B horizon soil from top to bottom- a few white specks on altered rock chips near bottom. Hole stopped due to rocks/pebbles at bottom-probably not at bedrock.; GPS Wpt: 85	5.1	0.7	4.1	0.1	14.8	0.02	0.6	8.6	0.5	71
77839	Soil auger	5524458.6	653645.4	Mik-2010	East	Brown	Fairly consistent soil profile (B-Horizon) to bottom of hole. Slight more "grit" or fine pebbles at bottom.; GPS Wpt: 86	3.4	0.3	3	0.05	13.3	0.04	0.6	6.6	0.4	51
77841	Soil auger	5524459.67	653669.18	Mik-2010	West	Brown	Consistent soil profile (B-horizon) to bottom. Probably did not reach bedrock.; GPS Wpt: 88	4.3	0.6	5.3	0.05	22.6	0.02	0.6	8.2	0.5	62
77843	Soil auger	5524460.78	653689.15	Mik-2010	West	Brown	Fairly consistent B-horizon soil from to bottom but more clay rich at bottom. Probably did not reach bedrock.; GPS Wpt: 89	1	0.3	5.8	0.05	21.1	0.02	0.6	7.3	0.6	53
77845	Soil auger	5524501.3	653654.8	Mik-2010		Brown	Fairly consistent soil (B-horizon) from top to bottom but more clay rich and wet in lower 20 cm.; GPS Wpt: 90	1.9	0.3	3.9	0.05	17.4	0.04	0.5	6.8	0.4	48
77847	Soil auger	5524461.89	653711.19	Mik-2010	West	Brown	Fairly consistent B-horizon soil top to bottom. Rare small (mm to ~1 cm) pebbles of light green aphanitic rock-looks like dacite or rhyolite (felsic composition). Slightly lighter brown colour at bottom and much more clay rich.; GPS Wpt: 91	40.3	0.4	6.6	0.05	23.5	0.02	0.4	8.2	0.5	44
77849	Soil auger	5524462.85	653730.07	Mik-2010	West	Brown	Fairly consistent B-horizon top to bottom. Somewhat sandier/siltier at top. Probably stopped by rocks in hole and did not reach bed rock.; GPS Wpt: 92	4.4	0.6	4.9	0.05	21	0.02	0.5	6.6	0.5	54
77853	Soil auger	5524465	653752	Mik-2010	Northeast	Light Brown	abundant rock fragments, mostly volcaniclastics though with some quartz. See 77854 for further comments	4.2	0.8	4.4	0.05	17.9	0.02	0.6	7.6	0.5	64
77855	Soil auger	5524466.05	653770.05	Mik-2010	Northeast	Brown	Consistent B-horizon top-bottom, though a little sandier near the top. Abundant rock pebbles, which were likely cause of preventing Auger of penetrating deep depths	1.8	0.5	3.7	0.05	15.7	0.02	0.6	6.3	0.4	68
77857	Soil auger	5524467.63	653790.02	Mik-2010	North	Light Brown	After ~65cm depth, soil changes to possibly a different type of B horizon or to a C horizon. Lots of qtz-fragments of different size.	0.9	0.5	6.8	0.05	24.7	0.02	0.6	7.5	0.5	59
77859	Soil auger	5524495	653787	Mik-2010	East	Light Brown	13m W upslope of 75ppb Au in soil anomaly (2010 - S-54236). ~5cm down, change from dark brown soil (77860) to light brown. Sample was very sandy/pebbly and hard to move down.	5.5	1.3	22.5	0.1	10.8	0.04	0.8	8.9	0.5	67
77861	Soil auger	5524495.2	653799.6	Mik-2010	East	Brown	Mixture of brown soil with a layer of tannish soil, back to brown. Abundant rock pieces. Stopped due to limited penetration, possibly from rock fragments, not likely bedrock. Sample at location of 2010-S-54236 (75 ppb Au in soil)	39.4	1.5	4.3	0.05	10.3	0.02	0.6	7	0.3	61
77863	Soil auger	5524495.21	653809.7	Mik-2010	East	Brown	Soil profile/colour persistent throughout hole. Depth of augering likely limited by pebbles/rock fragments.	2.9	0.6	3.9	0.05	15.7	0.03	0.5	6.6	0.4	78
77865	Soil auger	5524514	653897	Mik-2010	Southeast	Light Brown	Drilled directly next to soil sample S-58619-58620 (2010: 116ppb Au), fairly much at the same spot. Soil profile relatively consistent throughout hole.										
80859	Soil Auger	5524513.95	653877.91	Mik-2010	Southeast	Orange	soil become sandier with depth, with some reddish, orange-like layers. Depth to penetration may have been bedrock, since we are on a gulley slope the soil profile may not have been deep	0.6	0.6	6.3	0.1	9.8	0.01	0.5	8.8	0.6	47

SampleID	Sample_Ty	NAT_North	NAT_East	Local_Grid_ID	Slope_Dir	Colour	Comments	Au_ppb	Ag_ppm	As_ppm	Bi_ppm	Cu_ppm	Hg_ppm	Mo_ppm	Pb_ppm	Sb_ppm	Zn_ppm
80861	Soil Auger	5524514.16	653918.03	Mik-2010	Southeast	Brown	soil profile consistent throughout, under humus layer soil is very sandy/pebbly. Lacks any clay. Depth of penetration limited by abundance of pebbles, small boulders	1.2	0.2	5.1	0.05	11.8	0.02	0.6	6.6	0.5	80
80865	Soil Auger	5524355.05	653884.11	Mik-2010	East	Light Brown	Sample located at/next to station S-59224 (24350N/3850E, 2010). Only <15m W of soil station at 24350N/3900E. Consistent profile throughout hole, with large abundance of pebbles, small boulders	10.3	0.5	4.4	0.05	12.1	0.02	0.6	6.5	0.4	59
80867	Soil Auger	5524355	653902	Mik-2010	East-Southeast	Brown	consistent profile down hole to about 60cm down, then the soil becomes a little drier/lighter-in-colour. Lots of pebbles/boulders. Sample taken right next to station L24350N/3900E	9.5	0.3	5.8	0.1	11.1	0.04	0.9	7.4	0.4	85
80869	Soil Auger	5524282.41	653906.04	Mik-2010	East	Brown	~2m from soil sample 49329 ("Rmt IN 06" written on flag, unsure on meaning) L24300N/3900E. Soil at around 50cm down becomes much more clay enriched. Penetration may be stopped by large pebbles/small boulders at depth.	0.25	0.2	6.4	0.05	14.2	0.02	0.5	6.5	0.5	57
80871	Soil Auger	5524280	653926	Mik-2010	Southeast	Grey	at about 80cm depth soil becomes much more clay rich. Above 80cm, soil profile is relatively consistent. Not too many pebbles/small boulders. Abundant quartz fragments at depth.	6.9	0.5	8	0.05	20.5	0.02	0.5	5.8	0.5	55
80873	Soil Auger	5524284.58	653886.05	Mik-2010	Northeast	Grey	at around 75cm the soil changes from looser brown soil to a tannish clay. Minimal rock fragments present.	40.6	0.8	7	0.05	18.2	0.04	0.8	6.6	0.5	47
80876	soil auger	5524298	653853	Mik-2010	East	Brown	soil gets less sandy, more clay content with depth, but no visibly distinctive layers.	12.9	0.3	4.3	0.05	13.6	0.02	0.5	5.5	0.5	42
80878	Soil Auger	5524296	653827	Mik-2010	East	Brown	Shallow auger sample due to abundance of rock fragments. Soil doesn't contrast very much with depth, almost appears clast-supported.	122.4	0.4	6.1	0.1	14.2	0.03	0.7	9.2	0.3	105
80880	Soil Auger	5524295	653806	Mik-2010	Southeast	Dark Brown	consistent profile of dryish soil (lacks cohesion). Limited penetration depth due to abundant rock fragments	41.2	0.3	6.8	0.1	16	0.04	1.6	9.7	0.3	105
80882	Soil Auger	5524295	653782	Mik-2010	Southeast	Brown		9.3	0.6	5.7	0.05	16.5	0.03	0.7	8.3	0.5	78
80884	Soil Auger	5524279.16	653755.89	Mik-2010	Southwest	Brown	Relatively consistent profile down hole with few rocks. Slightly more clay content at depths >75 cm (+/- 5 cm)	12.2	0.4	4.3	0.05	17.7	0.02	0.6	6.3	0.5	60
80886	Soil Auger	5524276.34	653730.87	Mik-2010	South	Brown	At about 70cm depth, soil changes to clay rich layer that limited penetration depth. Clay layer contains heavily weathered, grey-light grey fragments that in many places were weathered down to sand	31.5	1.3	4.4	0.05	22.3	0.05	0.7	7.7	0.4	58
80888	Soil Auger	5524273.69	653705.84	Mik-2010	Southwest	Brown	Soil colour changes in areas deeper than 60cm from brown to tannish-orange back to brown, without any significant change to texture. Abundant quartz fragments with some limonite alteration, green-alteration-product, and exotic igneous fragments with chlor	17.3	0.9	4.9	0.05	20.8	0.02	0.9	7.3	0.5	60
80890	Soil Auger	5524271	653681	Mik-2010	Southwest	Dark Brown	At around 60 cm depth, clay content rises significantly. No significant change in colour or in texture above 60cm throughout that portion of the soil profile.	4	0.6	5	0.05	20.5	0.03	0.6	7.1	0.5	52
80892	Soil Auger	5523898.66	653999.21	Mik-2010	East	Brown	Relatively consistent profile down hole	2	0.2	4.9	0.05	14.3	5.00E-03	0.5	6.4	0.4	54
80894	Soil Auger	5523897.53	654024.25	Mik-2010	East	Dark Brown	Consistent profile down hole. Limited penetration with all 3 holes attempted. Thought to be limited by roots, which were abundant.	0.6	0.2	4.3	0.05	17.8	0.02	0.6	6.6	0.3	78
80896	Soil Auger	5523896.83	654049.28	Mik-2010	North	Grey	Within 5cm the soil turns to a greyish brown, clumpy soil with abundant rock fragments, including igneous fragments with biotite. Despite cohesion in soil, clumps are brittle (don't hold together well)	0.25	0.05	7.8	0.05	27.1	0.01	0.6	5.6	0.5	50
80898	Soil Auger	5523896	654077	Mik-2010	East	Brown	Soil over 80cm depth is cohesion less, with small pebbles. Soil deeper than 80cm starts to become cohesive, dense, and contains some grey & white sandy fragments of weathered rock.	12.4	0.05	3	0.05	10.6	0.02	1	6.8	0.3	57
80922	Soil auger	5524048	652299	Line 6-2010	Southeast	Light Brown	At over a meter depth, clay content significantly increases, though moisture content still seems low at 140cm depth.	5.3	0.2	6.4	0.05	19.3	0.03	0.7	6.6	0.5	42
80924	Soil auger	5524049	652261	Line 6-2010	East	Grey	soil profile consistent with depth: rocky, dry, grey, lacks cohesion. Next to fallen large tree with abundant rocks abutted to bottom of stump. Rocks like these bellow the surface are what probably limited penetration.	1.3	0.2	4.3	0.05	20.7	0.02	0.6	7.5	0.4	57

SampleID	Sample_Ty	NAT_North	NAT_East	Local_Grid_ID	Slope_Dir	Colour	Comments	Au_ppb	Ag_ppm	As_ppm	Bi_ppm	Cu_ppm	Hg_ppm	Mo_ppm	Pb_ppm	Sb_ppm	Zn_ppm
80926	soil auger	5524149	652392	Line 6-2010	East	Light Brown	Soil profile relatively consistent with depth. At about 20-30cm colour changes from dark brown, humic layer, to loose, light-brownish layer.	18.9	0.8	11.3	0.1	21.4	0.04	1.5	10.4	0.6	48
80928	Soil auger	5524149.43	652417.07	Line 6-2010	West	Dark Brown	consistent profile with depth: dry, stony, lacks cohesion.	4	0.7	6.1	0.1	31.1	0.04	1.2	11.1	0.4	108
80930	Soil auger	5524149.85	652442.08	Line 6-2010	West	Brown	too many rocks within soil for augering: couldn't penetrate >20cm on 4 different holes. Sample was extracted by trowel and hand digging. Soil very rocky, not much dirt, and very dry, lacks cohesion	1.6	0.3	4.1	0.1	26.8	0.06	1.5	9.8	0.3	115
80931	Soil auger	5524148.71	652366.89	Line 6-2010	South	Brown	relatively consistent profile with depth. Soil very rocky; auger unable to penetrate over 20-30cm depth. Outcrops exposed to N and S of line, within 5m of hole, suggesting shallow soil horizon	4.7	0.2	6.2	0.1	35.5	0.03	0.9	9.1	0.4	68
80932	Soil auger	5524148.42	652341.8	Line 6-2010	East	Brown	Fairly consistent soil profile downhole: dry stony. Soil gets slightly denser at 60-70cm which may have limited penetration depth.	13.1	0.1	3.1	0.05	15.1	0.01	0.7	7	0.4	63
80934	Soil auger	5524352.24	652222.83	Line 6-2010	East	Tan	2 distinct horizons: above 65cm depth is dark brown, lacks cohesion soil with some fragments. Below 65cm depth is an oxidized, clay-rich soil lacking fragments of rock.	4.8	0.2	8.2	0.2	19	0.05	3.7	11.6	0.4	116
80936	Soil auger	5524352.13	652247.91	Line 6-2010	South	Dark Brown	Soil profile is stony, dark brown, with clay content increasing at about 70cm depth. Sample taken next to S-68438	24.9	0.7	6.2	0.1	19.6	0.04	5.4	11.6	0.4	107
80938	Soil auger	5524352.2	652272.96	Line 6-2010	Southwest	Orange	Distinct change in soil profile from looser soil to a cohesive, oxidized, clay-rich soil at about 80cm depth.	42.4	0.5	6.1	0.1	15.6	0.02	2.8	8.9	0.3	57
80940	Soil auger	5524352.31	652298.03	Line 6-2010	Southwest	Brown	Sample taken <1m upslope from S-68437 (2010). Soil is rocky, lacks cohesion, and at depth becomes distinctly light grey (bed rock chips/fragments)	9.1	0.4	5.5	0.1	18.5	0.02	2.1	8.6	0.5	84
80942	Soil auger	5524350	652323	Line 6-2010	Southwest	Tan	Soil profile relatively consistent downhole: dry, stony. At about 80cm and over in depth, soil colour changes to greyish-brown.	21.7	0.7	4.7	0.1	18.9	0.03	3.2	7.8	0.4	71
81000	Soil Auger	5523857	654005	Mik-2010	Southeast	Brown	Drilled 4 holes, all capping from 30-40cm depth. Relatively consistent profile with depth (colour, texture, materials)	7.1	0.1	4	0.05	14.2	0.02	0.5	6.3	0.5	51
81003	Soil Auger	5523855	654029	Mik-2010	Northeast	Brown	Near the 60cm mark the soil becomes slightly more cohesive, but is relatively consistent throughout hole. Hole is <2m S from rock sample 43488 (23862N/4030E - 2010)	1.7	0.3	5.8	0.05	28.4	0.02	0.6	5.7	0.5	64
81005	Soil Auger	5523855	654058	Mik-2010	South-Southeast	Light Brown	At bout >60cm depth, soil profile changes from brown soil lacking significant cohesion to a clay-rich, tannish soil, well developed (lacks sand or weathered particles/fragments)	2.5	0.05	4.5	0.05	28.1	0.02	0.6	5.4	0.4	46
81007	Soil Auger	5523856.15	654083.4	Mik-2010	South	Tan	Despite digging out rocks, could not drill deeper. Soil profile gets lighter in colour with depth. A layer of gravel about 30-40 cm depth, about 5cm thick	0.25	0.6	1.8	0.05	8.6	0.02	0.4	5.8	0.2	54
81009	Soil Auger	5523857	654109	Mik-2010	East	Grey	Relatively consistent profile downhole, though clay content slightly increases with depth of 70cm. Not very many rock fragments.	1.6	0.1	4.3	0.05	11.9	0.02	0.5	5.3	0.5	47
81011	Soil Auger	5523849	654196	Mik-2010	Southwest	Brown	Relatively consistent profile downhole, with slight increases in clay content from around 70-80cm depth.	1.2	0.3	5.1	0.05	17.2	0.03	0.6	6.4	0.5	40
81013	Soil Auger	5523964	654088	Mik-2010	West	Dark Brown	Soil is damp, relatively very high clay content starting at depths of 30cm. Relatively low rock fragment content.	1.4	0.4	6.6	0.05	31.1	0.03	0.6	8.1	0.5	60
81015	Soil Auger	5523964	654053.25	Mik-2010	East	Brown	Relatively consistent soil profile with depth. No cohesion. Abundant boulders up to 40cm across are buried in area, limiting penetration depth.	31.6	0.2	7.7	0.05	20.3	0.03	0.7	7.8	0.5	58
81017	Soil Auger	5523964	654028.08	Mik-2010	Southeast	Light Brown	Penetration of drill difficult in upper 30-40cm until clay-rich layer reached. Clay-rich layer lacks pebbles/rock fragments until at depths of >70 cm. Weathering of rock fragments to clay/sand evident.	12.9	0.5	9.1	0.05	25.6	0.05	0.7	7.8	0.7	53
81021	Soil Auger	5524241.43	653947.16	Mik-2010	Northeast	Brown	Sample taken upslope of soil anomaly. Relatively consistent soil profile downhole, with little, lacks cohesion soil and abundant, flattish boulders of volcaniclastics. Soil appears clasts-supported. Drilled ~30cm down, needed to dig the remainder of hole	6.1	0.2	2.7	0.1	14.1	0.02	0.6	7.9	0.2	92
81024	Soil Auger	5524244	653917	Mik-2010	South	Brown	Relatively consistent soil sample downhole: sandy, lacks cohesion, lots of roots. Penetration limited by rocky hard surface, can't dig it out (outcrop?). No clay layer found.	1	0.2	7.3	0.05	19.4	0.02	0.9	6.6	0.6	51

SampleID	Sample_Ty	NAT_North	NAT_East	Local_Grid_ID	Slope_Dir	Colour	Comments	Au_ppb	Ag_ppm	As_ppm	Bi_ppm	Cu_ppm	Hg_ppm	Mo_ppm	Pb_ppm	Sb_ppm	Zn_ppm
81029	Soil auger	5523850.05	652424.95	Line 6-2010	Southeast	Brown	Relatively consistent profile with soil depth: rocky, dry, lacks cohesion. Resistant barrier blocking penetration, unable to excavate further.	6.1	0.1	4.1	0.05	15.8	0.01	0.9	6.7	0.4	58
81031	Soil auger	5523850.05	652475.18	Line 6-2010	South	Brown	Relatively consistent soil profile with depth, with only a minor increase in sand content with depth. Limited penetration due to rocky layer, unable to efficiently remove rocks.	5	0.4	5	0.05	21	0.02	0.9	7	0.4	55
81033	Soil auger	5523851.06	652325.57	Line 6-2010	Southwest	Brown	Profile gets sandier with depth, not very stony but could not penetrate over 70cm; auger would jump a bit, possibly from hitting a large rock.	9.2	0.5	4.5	0.05	17.5	0.02	1.1	7.7	0.4	59
81035	Soil auger	5523850.97	652300.45	Line 6-2010	West	Brown	Hole just upslope from S-58395 (51.7 ppb). Despite depth, soil lacks clay-horizon. Soil lacks cohesion, is very dry even at depth.	6.4	0.3	5.4	0.05	21.8	0.03	1.1	7.9	0.5	56
81037	Soil auger	5523850.97	652275.48	Line 6-2010	East	Tan	Soil lack cohesion until ~50cm depth, where soil profile changes from loose, brown silty soil to a dense, tannish soil: clumped and contains sandy clasts of orange and grey, which may be weathered rocks.	9.7	0.2	7.5	0.1	31.6	0.02	1.1	8.3	0.4	59
81039	Soil auger	5524051	652348	Line 6-2010	West	Brown	Sample flag for ppb23.7 was not found, but old soil flag chewed by cows at appropriate GPS coordinates was assumed to represent the flag. Soil gets a little sandier/clayey with depth, but remains relatively dry, lacks cohesion, and consistent	10.2	0.6	6.1	0.05	21.9	0.03	0.9	8.1	0.4	62
81041	Soil auger	5524050.77	652373.03	Line 6-2010	West	Light Brown	At very shallow depths, the soil becomes damp, and very cohesive. Thickness of soil seems to be determining factor for auger depth.	4.1	0.4	6.3	0.05	22.3	0.03	0.8	9.5	0.4	49
81043	Soil auger	5524050.78	652398.2	Line 6-2010	West	Brown	Soil is clumpy, stony, mildly damp, and very difficult to drill through. Soil jams auger frequently. Profile appears consistent but a lot of mixing within the horizon from augering is suspected.	4.8	0.2	6	0.05	19.4	0.03	1.1	8.2	0.4	61
81045	Soil auger	5524050.31	652423.29	Line 6-2010	Southwest	Grey	Distinct soil contact at around 50-60cm depth where soil profile changes from dark, clumpy soil to a very cohesive, damp, greyish soil horizon, which was sampled for SA-81045	32.3	0.3	4.5	0.05	18	0.03	1	7.4	0.4	55
81047	Soil Auger	5524051	652324	Line 6-2010	Southeast	Brown	Soil gets more clumped together with depth, and rocky. Otherwise soil profile is consistent, dry, stony	4.8	0.5	7.2	0.05	27.2	0.04	0.9	9.6	0.5	67

SampleID	Type	NAT_North	NAT_East	Comments	Au_ppb	Ag_ppm	As_ppm	Bi_ppm	Cu_ppm	Hg_ppm	Mo_ppm	Pb_ppm	Sb_ppm	Zn_ppm
73810	Rock	5524244	653799	1.5-2cm thick quartz vein forming thin cap on top of a 1mx0.5m size outcrop. The vein exhibits bladed quartz pseudo-morphed after calcite. The quartz within centre of vein also shows med-grained quartz crystals and rare cockscomb growth into a central vug. Alt'n: weak to moderate silicification extends into host volcaniclastic rock for 1's of cm. Very little of the vein occurs. Looking down on the vein surface there was originally a 10x15cm vein preserved and commonly 1.5cm thick.	1.2	0.2	3.9	0.05	7.2	0.03	0.4	4.6	0.2	12
73811	Rock	5524243	653799	Weakly siliceous heterolithic felsic volcaniclastic. Mixture of 0.3-1cm sized angular clasts comprising ~30% of the rock. Mixture of tan to cream coloured siliceous volcanic fragments and black mudstone clasts in the siliceous matrix. Rare domains (clasts or filled/replaced vugs) of massive silica randomly occurring in the rock. Alt'n: weak pervasive silica. Minz: Absent. The sample is a chip starting in the immediate footwall of vein, extending 60cm into footwall - represents true thickness.	5.3	0.4	3.6	0.05	5.8	0.02	0.3	4.5	0.1	39
73812	Rock	5524236	653777	Quartz vein. Minor silicified volcaniclastic preserved within a stockwork vein system of almost massive quartz. Quartz seen in 1-3mm veinlets x-cutting rock and as simply massive quartz. Most all of the quartz has a fine sugary texture. Rare vugs are preserved. Alt'n: minor amount of protolith preserved is strongly silicified. Very difficult to make out what appears to be volcaniclastic texture. This rock could be outcrop but difficult to tell without more digging.	1.2	0.2	9.3	0.05	9.2	5.00E-03	1	3.7	0.4	23
73813	Rock	5524261	653759	Strongly silicified heterolithic felsic (??) lapilli tuff. Protolith very difficult to determine due to intensity of silicification. Rarely see ghosted siliceous angular clasts within matrix, as well as mudstone clasts. Alt'n: strong pervasive silicification in rock. Also see subangular to rounded domains of silica ~ 0.5cm in size and comprising 5-7% of rock. They are light grey in colour. Minz: Absent. This is from outcrop (possibly subcrop) but there is extensive float in same area consisting of same siliceous rich material. The volume of material implies a localized source.	5.3	0.05	7.2	0.05	1.7	0.01	1.1	5.9	0.3	28
77852	Rock	5524525	653618	Massive-microcrystalline, fine-grained. ~2-4% pyrite, 35-40% qtz, ~30% dark green minerals. Large, localized rhyolitic clumps/clasts (1-6cm in diameter). Pyrite mineralization throughout sample. Reddish brown alteration along weathered surface and fractures. Possible a Dacite	0.25	0.05	2.6	0.2	55.5	0.77	0.5	1.2	0.1	173
77869	Rock	5524267	653790	Volcaniclastic with quartz clasts. Matrix supported. Light brown weathering, fresh white, massive to weakly layered/bedded, fine-grained matrix with up to 6mm clasts or crystals of feldspar +/- minor quartz clasts, and limonitic clasts. White coloured reflects weak-mod bleaching and clay alteration. 5-8 cm thick cockscomb qtz veinlet with open space in centre crosscutting at ~90 deg apparent layering/bedding. No sx.	5.1	0.05	5.5	0.05	3.9	0.02	1.6	5.6	0.3	22
77870	Rock	5523799	653923	Hydrothermal breccia of an aphanitic siliceous rock 60-65% of rock composed of whitish yellow angular fragments of volcanic occurring within a dark grey silica matrix. Remainder of rock is silica - very hard. In some of the weakly bx'ed material veinlets of qtz define an incipient breccia texture. Dominant rock type in float consists of float of the heterolithic volcanoclastic rock. Usually clay altered. Clasts have seen some level of milling and subangular clasts are typcially 0.5-1cm in size. Very shiny silica alteration	6.5	0.1	28.5	0.1	6.3	5.00E-03	0.8	7.9	0.6	39
77871	Rock	5523991	653965	Qtz vein material - some massive, some defining fragments in a silicified rock. Predominantly all qtz though. Cannot recognize host rock. Some vugs within the qtz material. Weathered surface contains weak limonite staining. No sulphides. Very rare recognizable veins - more massive to fragment texture	2	0.1	2.9	0.2	2.3	0.04	0.8	4.9	0.2	46
77872	Rock	5523991	653965	Volcaniclastic with irregular blobs of dark grey quartz - fine clasts (vol.) with dark grey quartz. ~5% qtz overall in sample.	4	0.2	11.9	0.1	4	0.02	0.2	4.8	0.2	28
77873	Rock	5524241	653743	Strongly silicified heterolithic lapilli tuff. Very difficult to discern original composition of fragments. Ghosted 0.3-0.7cm angular fragments. Alt'n: Also can see hairline quartz veinlets cutting through rock. Intense silica alteration pervasive throughout rock. Moderate hematite alteration on fracture surfaces. Also observe silica domains - clast shaped, throughout rock. Similar material on this side (east) of the Mik draw.	3.1	0.3	11.7	0.05	5.5	5.00E-03	2.5	5	0.4	11

SampleID	Type	NAT_North	NAT_East	Comments	Au_ppb	Ag_ppm	As_ppm	Bi_ppm	Cu_ppm	Hg_ppm	Mo_ppm	Pb_ppm	Sb_ppm	Zn_ppm
77874	Rock	5524254	653740	Silicified heterolithic lapilli tuff. Difficult to discern original composition of clasts due to intensity of silica alteration. White, pumice clasts observable ~1-2mm in size. Most fragments (or angular domains) consist of silica, some angular some rounded but comprising 25-30% of rock. Minz: absent. Alteration: strong silica pervasive.	153.8	0.4	9	0.05	2.2	0.01	2.1	7	0.3	50
77875	Rock	5524280	653721	Silicified heterolithic lapilli tuff. Very difficult to discern original tuffaceous texture but can rarely recognize angular lithic clasts and whitish grey siliceous clasts. Most of rock is comprised of massive silica or the roundish domains of light grey silica. Alt'n: Strong pervasive silicification. Minz: Absent although in some of the larger silica domains there appears to be very fine-grained pyrite. This is one piece of float similar to ~10-15 others, all angular and the same size, therefore this material could be very localized to area.	5.1	0.05	5.8	0.05	1.8	5.00E-03	0.7	6.9	0.2	35
77876	Rock	5524279	653710	Siliceous heterolithic lapilli tuff. Difficult to discern/recognize lapilli size clasts. No banding or layering in rock. Clasts are typically 1-3mm in size and comprise 30% of rock. Alt'n: Strong pervasive silicification and in veins. Cockscomb 2-5mm wide veins spaced 3-10cm apparent in outcrop growing into central vug. Minz: absent.	17.9	0.1	4.6	0.05	2.1	0.02	0.2	6.3	0.2	42
77877	Rock	5524304	653720	Silicified heterolithic lapilli tuff. Looks similar to all other lapilli tuff samples. Taken today but can recognize any original fragments - some lithics and felsic volcanics observable. On one surface (rarely), there is a 1mm thick veneer of quartz coating. Alt'n: strong pervasive silicification throughout. Also see 10-15% of rock consisting of light grey to green siliceous domains: massive silica. Minz: absent.	87.6	0.2	6.4	0.1	1.7	0.01	0.8	6	0.1	35
77907	Rock	652373.72	5524487.03	L6 Trench L609-XT-08A @ 29 to 30 m. Volcaniclastic	32.8	0.05	9.5	0.05	5.2	0.03	0.2	7.6	0.2	32
77917	Rock	5524275	653779	Volcaniclastic, with silica clasts and silica altered. Weathering light brown, Fresh surface is white to very light grey. Massive, fine-grained matrix supporting ~40-60% coarse clasts/crystals up to 8mm. Mostly feldspar or sericitic clay altered clasts/crystals. Irregular domains of grey silica alt'n up to ~1x2-3cm in area. Account for ~5% of sample. Local patchy limonite with trace remnants of sulphide, probably pyrite. Quartz domains connected to fine (~2mm) veinlet of silica.	2.8	0.2	9.7	0.05	5.6	5.00E-03	1.6	6.7	0.5	24
77918	Rock	5524270	653757	Volcaniclastic with quartz clasts +/- veinlets. Volcaniclastic with hematitic zones and layers. Particularly on eroded side with ~1/2 to 1cm thick quartz vein. Quartz in vein is white to pinkish red, med-gr to cgr, and appear to be brecciated in part or , in part agglomerate of white and grey quartz grains and clasts. Weathering red and limonitic brown. Fresh surface is white and bleached, volcaniclastic is matrix supported with clasts up to 5-6mm.	3.7	0.05	4.3	0.05	2.6	0.01	1	7.4	0.3	38
77919	Rock	5524270	653758	Volcaniclastic boulder with qtz veinlet and qtz clasts. Weathering pale brown/limonitic. Fresh surface is white. Matrix supported with clasts ~ 2-6mm generally. Mostly feldspar with lesser grey qtz. Thin (2-3mm) qtz veinlet with fg-mg qtz crystals and drusy in centre of vein.	3	0.05	6.9	0.05	2.4	0.02	2.4	8.2	0.2	45
77920	Rock	5524282	653718	Angular boulder at foot/truck of tree on top of ridge. Weathers limonitic brown and hematitic red. Fresh surface - light grey. Volcaniclastic, matrix supporting 30% generally 2 to 6 mm clasts of feldspar, qtz + limonitic fragments or crystals. About 25% of sample appears silicified (between two thin veinlets (<1 mm to 3 mm thick)) intersecting at low angle. Drusy qtz in centre veinlet cavities. Brecciated (?) angular fragments of qtz up to 1 cm thick. Strong limonite in qtz druses suggests some Fe-sulphides were present.	0.7	0.05	3.8	0.05	6.5	5.00E-03	1.7	7.8	0.5	45
77921	Rock	5524281	653716	Volcaniclastic with qtz clasts and qtz veinlets. Weathers limonitic brown and hematitic red. Clasts variable, mostly feldspar = qtz, ranging from ~1 m to 10 mm in size. Multiple quartz veinlets (two at right angles) including micro-crystalline grey qtz and milky white qtz (less abundant). Grey qtz appears to "cap" the rock and silicify volcaniclastics below, gradually diminishing below the veinlets and cap. Locally the grey qtz also appears brecciated and to include clasts of grey quartz.	3.4	0.05	2.2	0.05	2.3	5.00E-03	0.6	7.7	0.3	41
77922	Rock	5524295	653734	Volcaniclastic. Brown and red hematitic weathering. White bifurcating qtz veinlets, individually ~0.5 cm thick each but joining to form one zone of qtz vein that is ~1.5 cm thick. Drusy qtz in centre of veinlets with hematitic stain. Typical volcaniclastic for Mik are. No rep taken (left only remaining piece on site with flag.)	8.9	0.8	4.7	0.05	2.5	0.01	2.2	6.6	0.3	33

SampleID	Type	NAT_North	NAT_East	Comments	Au_ppb	Ag_ppm	As_ppm	Bi_ppm	Cu_ppm	Hg_ppm	Mo_ppm	Pb_ppm	Sb_ppm	Zn_ppm
77923	Rock	5524322	653714	Brown weathering, weakly limonitic. Fresh surface is very light grey. Matrix supported, ~35% clasts 1 to 5 mm, mostly feldspar, limonitic fragments, back fragments and ~1% irregular grey qtz clasts. At least 4 thin drusy qtz veinlets (0.5 to 2.0 mm thick) cut this rock in the same plane (parallel veinlets).. Three of the veinlets are only 2 cm apart each-fourth veinlet occurs about 5 cm below the other three.	416.9	0.5	6.3	0.05	11.5	0.01	1.4	8.4	0.5	51
77958	Rock	5521288	660211	Small fist size rounded boulder in clear cut trench rubble (~40 cm deep). Andesite porphyry-feldspar-cut by 1 to 2 cm wide whiter coarse grained qtz vein with bluish grey chalcedonic inclusions (irregular shapes up to ~1 cm long). Andesite porphyry host is magnetic (weak to moderate) with fine grained ground mass. Searched immediate area but no other qtz vein bearing rocks were found.	0.7	0.05	1.6	0.05	13.5	5.00E-03	0.05	3.9	0.2	40
77959	Rock	5521061	659946	Sub-rounded qtz boulder ~25 x 25 x 20 cm found sitting beside road. White with local pale orange to rusty colouring. Massive medium coarse grained and sugary textures. Local small vugs with drusy qtz of mm. size. Local chalcedonic textures with mainly white qtz interlayered or enveloping light grey qtz in bands up to ~1 cm thick. Pictures 1137.jpg, 1138.jpg and 1139.jpg.	590.7	0.7	9.7	0.05	8.9	10.16	0.3	1.1	26.5	0.5
77960	Rock	5516909	661924	Sub-rounded boulder about 20 by 20 by 15 cm. Weathers brown. Fresh surface is mottled yellowish to limonitic pink, white and dark grey. Volcaniclastic conglomerate (small pebbles to cobbles size fragments) with irregular network of dark grey qtz veinlets or qtz domains - maybe up to 3% quartz overall. Dominate alteration is limonitic and weak clay altered feldspar clasts. Fabric appears mainly clast supported.	0.25	0.05	4.3	0.05	3.3	0.14	0.1	7.3	0.3	17
77962	Rock	5516344	661401	Small rounded boulder about 15 by 10 by 8 cm. Weathers yellowish to light brown. Fresh surface is very dark grey to black. Appears to be almost all silica: predominantly very dark grey to black, micro-crystalline or cherty qtz with fairly abundant stockwork of fine (3 mm or less) white or light grey qtz veinlets. Qtz veinlets are mostly subparallel suggesting a preferred fracture orientation or layering. Includes ~15% white feldspar (?) grains. Minor limonite and occasional to rare hematite on fractures.	1.5	0.2	0.6	0.05	92	0.05	0.2	3.4	0.3	5
80985	Rock	5518356	660806	Dark green, fine grained matrix with opaque, massive, zoned quartz vugs/veins. Quartz is rimmed by dark purple aphanitic substance.	0.25	0.05	0.5	0.05	10.4	5.00E-03	0.1	1.4	0.05	12
80986	Rock	5518262	661767	Monzonite-granodioritic rock; abundant euhedral qtz, biotite, feldspar & possibly hornblende. One surface of rock composed entirely of either plag-feldspar or quartz (subhedral with possible cleavage planes evident)	0.25	0.05	0.9	0.05	1.2	5.00E-03	0.2	1.8	0.05	21
81059	Rock	5521181	660547	qtz and calcite bearing andesite. Large vug of weathered calcite (brown) lined with coarse-grained qtz, associated with greenish or tan coloured alteration similar to malachite or chlorite. Calcite has fractured conchoidal.	0.25	0.05	5.2	0.05	107.3	0.79	0.3	5.5	1	4
81060	Rock	5521182	662006	Light grey aphanitic matrix that is banded (in situ rock looks in places to be sub-horizontally columnar) with whitish lenses/clasts that might be a weathering feature. Abundance of hematite/limonite/chlorite alteration.	1.5	0.05	1.6	0.05	1.8	0.11	0.3	5.3	0.1	18
81061	Rock	5524500	653925	Massive quartz (opaque) vein with 3-5 mm diameter crystals (clear), bordered by green-blue alteration.	0.25	0.05	1.5	1.4	2.7	0.02	0.5	5.1	0.1	4
81062	Rock	5524275	653572	Pinkish light-grey, fine-medium grained matrix. Abundant qtz veining & clasts mms in diameter. Qtz veining appears aphanitic, while matrix contains some euhedral orthoclase crystals.	2.4	0.1	3.7	0.1	6.1	0.01	0.4	7.1	0.2	47
81063	Rock	5524334	653544	Volcaniclastic, fine-medium grained purplish-greenish matrix with abundant angular clasts ranging from 0.5-->7cm in diameter. Some qtz veining. Clasts: green, purple, grey, black. Includes large (>10cm) vesicular clast, black, similar to basalt	0.25	0.05	3.9	0.05	0.9	5.00E-03	0.2	3.3	0.2	54
81064	Rock	5524400	653850	The UTM sample location is estimated from the MIK -2010 ground grid locations. Pinkish volcaniclastic with qtz vein surface that is massive though contains abundant qtz euhedral, clear crystals and abundant sericitic texture. Possibly a silica alteration of calcite.	7.7	0.2	6.6	0.1	3.8	0.02	0.1	5	0.2	40
81065	Rock	5523694	653495	Green, fine-medium grained matrix with abundant qtz + sulphides (including pyrite) throughout sample. Qtz crystals are clear, subhedral.	1.9	0.1	52.1	0.2	61.9	0.02	1	1.4	0.5	18

SampleID	Sample_	Trench_Name	mFrom	mTo	NAT_North	NAT_East	Comments	Au_ppb	Ag_ppm	As_ppm	Bi_ppm	Cu_ppm	Hg_ppm	Mo_ppm	Pb_ppm	Sb_ppm	Zn_ppm
77905	Rock	MK09-XT-06	16	17	5524342.37	653707.2	Volcaniclastics-with qtz clasts and part of 1/2 cm qtz veinlet near top of samples (~9.4 m in trench)	81.4	0.3	4.8	0.1	2.3	0.02	1	7.4	0.1	35
77903	Rock	MK09-XT-06	7	8.5	5524336.61	653714.11	Volcaniclastic with occasional qtz clasts & blebs.	44.6	0.1	8.8	0.1	2.6	5.00E-03	0.9	7	0.2	37
77900	Rock	MK09-XT-06	5	6	5524335.66	653715.67	Volcaniclastic	39.6	0.05	7.1	0.1	3.2	0.02	0.5	6.2	0.2	42
77902	Rock	MK09-XT-06	6	7	5524336.06	653715		24.4	0.1	11.4	0.1	4	0.02	1.1	6.9	0.2	42
77906	Rock	L609-XT-08A	28	29	5524486.12	652375.32	Volcaniclastic, occasional qtz clasts	20.2	0.1	6.3	0.1	3.4	0.02	0.2	6.1	0.2	32
77904	Rock	MK09-XT-06	8.5	9.5	5524337.44	653712.73	Volcaniclastic, occasional qtz clasts	17.5	0.1	5.9	0.1	2.4	0.02	1.2	7.9	0.2	42

APPENDIX III

Acme Analytical Laboratories
Laboratory Assay Certificates

VAN10003004	Soil
VAN10003150	Rock
VAN10005283	Rock
VAN10005284	Rock

Acme Analytical Laboratories (Vancouver) Ltd.
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Client: **Strongbow Exploration Inc.**
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Submitted By: Email Distribution List
Receiving Lab: Canada-Vancouver
Received: June 30, 2010
Report Date: October 08, 2010
Page: 1 of 3

CERTIFICATE OF ANALYSIS VAN10003004.1

CLIENT JOB INFORMATION

Project: 1335
Shipment ID: 1335-10-01
P.O. Number NA-10-318
Number of Samples: 41

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	39	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	41	Dry at 60C			VAN
RJSV	39	Save all or part of soil reject fraction			VAN
RJSV	39	Saving all or part of Soil Reject			VAN
1DX2	41	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Strongbow Exploration Inc.
860 - 625 Howe St.
Vancouver BC V6C 2T6
Canada

CC: David Gale
Ellen Stewart

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Project: 1335
Report Date: October 08, 2010

CERTIFICATE OF ANALYSIS VAN10003004.1

Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
68389	Soil		0.7	22.3	7.5	68	1.0	13.0	8.4	733	2.66	4.1	0.6	7.6	1.3	49	0.3	0.6	0.1	71	0.45
68390	Soil		1.2	15.8	7.6	108	0.5	10.3	6.4	1896	2.05	2.8	0.4	5.3	1.0	38	0.5	0.4	0.1	53	0.34
68391	Soil		0.7	22.5	13.3	67	1.0	11.3	8.0	1014	2.53	4.0	0.7	29.3	1.4	49	0.2	0.4	0.1	67	0.40
68392	Soil		0.7	23.3	7.2	64	0.6	12.0	7.7	692	2.69	4.1	0.7	30.2	1.5	48	0.1	0.5	<0.1	70	0.36
68393	Soil		0.8	11.3	9.4	147	0.8	7.3	4.2	1798	1.36	2.0	0.4	55.6	0.7	48	0.7	0.2	0.1	31	0.40
68394	Soil		0.8	11.7	8.6	87	1.2	7.5	5.0	1578	1.58	1.7	0.4	29.4	0.8	45	0.5	0.3	<0.1	40	0.42
68395	Soil		0.8	13.0	7.3	84	0.3	7.8	5.3	1461	1.79	1.9	0.5	11.1	0.9	46	0.5	0.3	0.1	46	0.40
68396	Soil		0.8	22.2	7.8	59	1.2	11.8	8.0	939	2.50	3.6	0.7	27.9	1.5	50	0.1	0.5	<0.1	65	0.40
68397	Soil		0.8	15.6	7.8	55	0.3	9.0	6.5	1106	2.13	1.8	0.7	10.4	1.2	45	0.2	0.4	0.1	56	0.31
68398	Soil		0.8	30.6	9.8	68	1.1	16.2	9.8	817	3.11	7.1	0.7	27.9	2.0	52	0.1	0.5	0.1	68	0.47
68399	Soil		0.9	16.1	8.3	85	0.2	10.7	6.5	1373	2.17	2.4	0.5	13.2	1.3	43	0.3	0.4	0.1	54	0.39
73951	Rock Pulp		13.6	121.1	25.8	92	10.1	15.1	18.0	925	3.66	10.0	0.7	5051	2.1	125	1.9	0.4	0.2	94	2.12
73952	Soil		1.5	19.5	12.7	180	1.0	8.3	6.2	4303	1.76	4.8	0.6	25.6	0.6	71	0.8	0.3	0.1	37	0.83
73953	Soil		2.6	28.7	17.2	449	0.3	8.3	4.9	>10000	1.14	2.6	0.3	5.9	0.5	113	2.6	0.3	0.2	22	1.64
73954	Soil		0.6	28.9	7.8	61	0.6	15.2	9.5	689	3.01	5.4	0.7	19.1	1.6	57	<0.1	0.5	0.1	76	0.42
73955	Soil		0.6	14.3	8.2	66	0.2	9.5	6.6	1222	2.14	2.2	0.5	32.2	0.9	47	0.2	0.4	0.1	56	0.43
73956	Soil		0.7	18.0	8.3	78	1.0	11.6	7.7	1155	2.63	2.6	0.6	53.5	1.4	50	0.2	0.4	0.1	70	0.41
73957	Soil		0.7	14.5	9.1	91	0.3	10.9	7.5	2198	2.41	2.0	0.5	110.2	1.2	51	0.4	0.4	0.1	64	0.48
73958	Soil		0.6	15.3	9.6	99	0.9	10.8	6.9	1609	2.35	1.8	0.6	38.8	1.3	44	0.3	0.3	0.1	61	0.33
73973	Soil		0.6	14.0	7.1	104	0.3	9.7	6.9	1921	2.24	1.5	0.5	29.8	1.1	43	0.3	0.3	0.1	58	0.36
73974	Soil		0.4	14.3	13.6	109	2.1	6.0	5.5	1301	1.67	2.3	0.3	59.4	0.6	31	0.3	0.2	0.1	36	0.35
73975	Soil		0.7	9.4	7.1	134	0.4	6.7	4.6	3042	1.55	2.2	0.3	41.6	0.4	35	0.6	0.2	0.1	39	0.38
73976	Rock Pulp		13.5	121.9	26.2	89	10.0	14.8	17.7	917	3.66	10.0	0.7	4875	2.1	124	1.9	0.3	0.2	95	2.11
73977	Soil		0.7	10.0	13.5	83	1.4	5.8	5.3	1246	1.88	4.3	0.4	23.5	0.8	30	0.3	0.3	0.1	37	0.38
73978	Soil		0.7	10.7	11.6	116	0.3	6.3	5.2	2538	1.66	2.5	0.4	21.5	0.5	44	0.6	0.3	0.1	39	0.59
77820	Soil		0.5	14.7	12.6	121	5.8	6.6	5.1	2061	1.62	2.4	0.3	27.5	0.8	33	0.5	0.2	<0.1	36	0.31
77821	Soil		0.5	10.8	10.3	129	0.3	7.2	4.3	1674	1.49	1.5	0.3	5.9	0.8	32	0.4	0.2	0.1	36	0.29
77822	Soil		0.5	25.9	16.8	72	1.4	12.4	8.1	669	2.69	5.1	0.5	18.1	1.5	55	0.2	0.5	0.1	70	0.48
77823	Soil		0.5	8.5	8.3	84	0.6	6.3	4.6	1248	1.94	1.5	0.3	12.5	0.6	34	0.2	0.4	<0.1	47	0.41
77824	Soil		0.6	15.9	10.1	71	1.0	10.6	6.0	888	2.29	2.9	0.5	4.6	1.3	44	0.1	0.3	0.1	50	0.32

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Project: 1335
Report Date: October 08, 2010

CERTIFICATE OF ANALYSIS VAN10003004.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
68389	Soil	0.065	8	23	0.47	185	0.129	2	1.50	0.018	0.13	0.3	0.02	4.0	<0.1	<0.05	5	<0.5	<0.2
68390	Soil	0.078	6	17	0.31	286	0.106	3	1.32	0.013	0.15	<0.1	0.05	2.9	<0.1	<0.05	5	<0.5	<0.2
68391	Soil	0.043	21	21	0.41	179	0.108	2	1.67	0.024	0.11	0.2	0.03	4.6	<0.1	<0.05	5	<0.5	<0.2
68392	Soil	0.034	20	21	0.44	157	0.115	2	1.75	0.022	0.11	<0.1	0.02	4.9	<0.1	<0.05	5	<0.5	<0.2
68393	Soil	0.066	12	9	0.17	345	0.057	1	1.37	0.019	0.10	0.1	0.04	1.7	0.1	<0.05	5	<0.5	<0.2
68394	Soil	0.047	14	15	0.24	278	0.082	2	1.13	0.016	0.13	0.3	0.04	2.2	<0.1	<0.05	4	<0.5	<0.2
68395	Soil	0.033	15	13	0.26	232	0.093	2	1.30	0.017	0.10	<0.1	0.04	2.6	<0.1	<0.05	5	<0.5	<0.2
68396	Soil	0.039	21	22	0.44	174	0.106	1	1.68	0.022	0.12	0.3	0.02	4.7	<0.1	<0.05	5	<0.5	<0.2
68397	Soil	0.020	23	17	0.32	174	0.107	1	1.38	0.015	0.13	<0.1	0.03	4.0	<0.1	<0.05	5	0.6	<0.2
68398	Soil	0.087	14	28	0.59	168	0.109	2	2.04	0.021	0.16	1.4	0.02	5.6	<0.1	<0.05	6	<0.5	<0.2
68399	Soil	0.056	10	17	0.32	251	0.113	1	1.41	0.012	0.16	<0.1	0.03	3.1	<0.1	<0.05	5	<0.5	<0.2
73951	Rock Pulp	0.080	14	22	1.09	105	0.110	5	2.28	0.126	0.30	0.2	0.04	9.1	0.2	0.67	8	1.1	4.6
73952	Soil	0.242	12	13	0.23	521	0.060	2	1.62	0.018	0.12	0.1	0.06	2.0	0.2	<0.05	5	<0.5	<0.2
73953	Soil	0.136	7	8	0.20	958	0.050	4	0.94	0.015	0.15	<0.1	0.11	1.4	0.1	<0.05	3	0.6	<0.2
73954	Soil	0.058	13	26	0.56	186	0.119	1	2.23	0.026	0.11	0.2	0.02	5.8	<0.1	<0.05	6	<0.5	<0.2
73955	Soil	0.044	9	16	0.30	221	0.100	2	1.40	0.014	0.14	<0.1	0.05	3.0	<0.1	<0.05	5	<0.5	<0.2
73956	Soil	0.047	8	22	0.37	216	0.131	2	1.69	0.017	0.11	0.2	0.04	4.1	<0.1	<0.05	5	0.6	<0.2
73957	Soil	0.042	8	18	0.31	281	0.127	2	1.59	0.014	0.14	<0.1	0.05	3.4	<0.1	<0.05	5	<0.5	<0.2
73958	Soil	0.049	9	20	0.30	255	0.126	2	1.72	0.025	0.11	<0.1	0.02	3.8	<0.1	<0.05	6	<0.5	<0.2
73973	Soil	0.048	8	16	0.29	273	0.122	2	1.57	0.018	0.13	<0.1	0.03	3.4	<0.1	<0.05	5	<0.5	<0.2
73974	Soil	0.102	8	11	0.16	204	0.044	2	1.37	0.017	0.13	5.0	0.04	2.0	0.1	<0.05	5	<0.5	<0.2
73975	Soil	0.073	8	10	0.18	333	0.051	2	1.28	0.017	0.10	<0.1	0.05	1.8	0.1	<0.05	5	<0.5	<0.2
73976	Rock Pulp	0.082	14	22	1.10	102	0.114	5	2.29	0.123	0.29	0.2	0.04	8.7	0.2	0.66	7	1.1	4.4
73977	Soil	0.061	13	17	0.17	163	0.038	2	1.05	0.013	0.14	1.6	0.04	1.9	0.1	<0.05	4	<0.5	<0.2
73978	Soil	0.072	10	10	0.18	295	0.047	3	1.24	0.012	0.10	<0.1	0.06	1.9	0.1	<0.05	5	<0.5	<0.2
77820	Soil	0.085	9	19	0.17	246	0.048	2	1.09	0.014	0.10	1.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
77821	Soil	0.088	7	9	0.18	235	0.052	2	1.32	0.015	0.10	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5	<0.2
77822	Soil	0.061	11	23	0.43	173	0.104	1	1.67	0.027	0.11	0.3	0.03	4.4	<0.1	<0.05	5	<0.5	<0.2
77823	Soil	0.081	5	11	0.21	171	0.055	2	1.22	0.019	0.12	<0.1	0.03	1.8	<0.1	<0.05	5	<0.5	<0.2
77824	Soil	0.082	9	15	0.33	282	0.071	2	2.35	0.036	0.19	0.4	0.03	3.4	<0.1	<0.05	7	<0.5	<0.2

Acme Analytical Laboratories (Vancouver) Ltd.
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Client: **Strongbow Exploration Inc.**
860 - 625 Howe St.
Vancouver BC V6C 2T6 Canada

Project: 1335
Report Date: October 08, 2010

CERTIFICATE OF ANALYSIS VAN10003004.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
77825	Soil		0.6	8.7	8.3	57	0.2	6.3	4.6	1220	1.74	1.6	0.3	3.0	0.6	47	0.1	0.3	<0.1	41	0.37
77827	Soil		0.5	11.6	11.0	72	0.8	8.2	5.9	1142	2.42	2.4	0.4	35.8	1.0	52	0.2	0.5	<0.1	63	0.37
77828	Soil		0.6	7.9	8.3	91	0.2	6.1	4.2	2375	1.72	1.2	0.3	5.9	0.7	41	0.3	0.3	<0.1	44	0.45
77829	Soil		0.6	21.7	10.3	56	1.2	10.8	7.7	592	2.93	5.1	0.5	0.9	1.4	64	<0.1	0.6	<0.1	72	0.46
77830	Soil		0.5	7.6	7.9	56	0.1	6.4	4.5	830	2.00	1.1	0.3	<0.5	0.7	34	<0.1	0.3	<0.1	52	0.28
77831	Soil		0.6	17.9	8.3	57	0.5	9.2	8.0	567	3.01	5.3	0.6	99.4	1.4	84	<0.1	0.6	<0.1	71	0.51
77832	Soil		0.5	8.3	7.8	53	<0.1	5.8	4.5	512	1.97	1.5	0.4	<0.5	0.8	32	<0.1	0.4	<0.1	53	0.27
77833	Soil		0.5	26.7	10.9	48	0.5	11.3	8.7	611	2.94	5.6	0.7	6.8	1.7	87	<0.1	0.5	<0.1	65	0.60
77834	Soil		0.6	12.5	9.8	46	0.3	7.0	5.9	660	1.92	2.0	0.5	16.9	0.8	37	<0.1	0.3	<0.1	48	0.27
77835	Soil		0.6	34.8	9.2	57	1.0	14.0	10.5	629	3.30	7.9	0.6	2.7	2.0	104	0.1	0.6	<0.1	78	0.65
77836	Soil		0.5	8.1	8.8	38	<0.1	4.9	4.6	489	2.15	1.7	0.3	0.9	0.8	39	<0.1	0.5	<0.1	56	0.31

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Project: 1335
Report Date: October 08, 2010

CERTIFICATE OF ANALYSIS VAN10003004.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
77825	Soil	0.053	6	11	0.23	256	0.066	3	1.45	0.017	0.12	<0.1	0.03	2.4	<0.1	<0.05	5	<0.5	<0.2
77827	Soil	0.038	6	18	0.29	219	0.102	2	1.34	0.025	0.15	0.6	0.03	2.7	<0.1	<0.05	5	<0.5	<0.2
77828	Soil	0.054	5	11	0.20	292	0.071	2	1.09	0.015	0.14	<0.1	0.05	1.7	<0.1	<0.05	4	<0.5	<0.2
77829	Soil	0.047	10	21	0.46	184	0.099	2	1.61	0.028	0.11	0.4	0.02	4.9	<0.1	<0.05	5	<0.5	<0.2
77830	Soil	0.037	4	12	0.22	157	0.079	2	1.19	0.016	0.09	0.1	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
77831	Soil	0.043	9	21	0.52	203	0.098	2	1.69	0.037	0.14	0.3	0.02	4.9	<0.1	<0.05	5	<0.5	<0.2
77832	Soil	0.030	6	12	0.25	133	0.087	1	1.09	0.024	0.09	<0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2
77833	Soil	0.052	19	22	0.52	201	0.074	2	1.81	0.041	0.12	0.3	0.04	7.1	<0.1	<0.05	6	<0.5	<0.2
77834	Soil	0.032	18	13	0.27	134	0.062	2	1.29	0.021	0.08	<0.1	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
77835	Soil	0.058	12	25	0.69	259	0.062	2	2.20	0.040	0.16	0.3	0.07	7.7	<0.1	<0.05	6	<0.5	<0.2
77836	Soil	0.025	5	11	0.19	170	0.071	2	0.86	0.016	0.12	<0.1	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2

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Project: 1335
Report Date: October 08, 2010

QUALITY CONTROL REPORT VAN10003004.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
73977	Soil		0.7	10.0	13.5	83	1.4	5.8	5.3	1246	1.88	4.3	0.4	23.5	0.8	30	0.3	0.3	0.1	37	0.38
REP 73977	QC		0.7	9.9	13.7	80	1.7	5.9	5.3	1259	1.85	3.9	0.4	12.4	0.8	29	0.3	0.3	0.1	36	0.37
77834	Soil		0.6	12.5	9.8	46	0.3	7.0	5.9	660	1.92	2.0	0.5	16.9	0.8	37	<0.1	0.3	<0.1	48	0.27
REP 77834	QC		0.5	12.7	10.4	46	0.3	7.0	6.1	676	1.96	2.1	0.5	8.3	0.7	37	<0.1	0.3	<0.1	52	0.29
Reference Materials																					
STD DS7	Standard		19.3	100.7	66.3	393	1.0	50.5	8.3	642	2.41	55.1	4.3	66.9	4.1	81	6.9	6.2	4.7	76	0.94
STD DS7	Standard		22.2	125.6	76.7	428	1.1	57.5	9.6	661	2.51	54.6	5.5	74.6	5.3	89	7.5	6.8	5.3	90	0.99
STD DS7 Expected			20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01

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860 - 625 Howe St.
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Project: 1335
Report Date: October 08, 2010

QUALITY CONTROL REPORT VAN10003004.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																			
73977	Soil	0.061	13	17	0.17	163	0.038	2	1.05	0.013	0.14	1.6	0.04	1.9	0.1	<0.05	4	<0.5	<0.2
REP 73977	QC	0.059	13	16	0.16	172	0.033	2	1.01	0.014	0.13	1.4	0.04	1.9	0.1	<0.05	4	0.6	<0.2
77834	Soil	0.032	18	13	0.27	134	0.062	2	1.29	0.021	0.08	<0.1	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
REP 77834	QC	0.036	19	13	0.28	134	0.061	2	1.31	0.020	0.08	<0.1	0.02	2.7	<0.1	<0.05	5	<0.5	<0.2
Reference Materials																			
STD DS7	Standard	0.080	12	184	1.04	436	0.112	41	1.06	0.098	0.51	3.8	0.22	2.3	4.4	0.19	5	3.2	1.2
STD DS7	Standard	0.081	15	196	1.11	424	0.147	41	1.10	0.102	0.50	3.7	0.24	3.1	4.2	0.18	5	3.5	2.0
STD DS7 Expected		0.08	12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	1.08
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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Client: **Strongbow Exploration Inc.**
860 - 625 Howe St.
Vancouver BC V6C 2T6 Canada

Submitted By: STRONGBOW 1
Receiving Lab: Canada-Vancouver
Received: July 08, 2010
Report Date: July 29, 2010
Page: 1 of 2

CERTIFICATE OF ANALYSIS VAN10003150.1

CLIENT JOB INFORMATION

Project:	1335
Shipment ID:	1335-10-03
P.O. Number	1335
Number of Samples:	19

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	18	Crush, split and pulverize 250 g rock to 200 mesh			VAN
1DX2	19	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

STOR-PLP	Store After 90 days Invoice for Storage
STOR-RJT	Store After 90 days Invoice for Storage

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

ADDITIONAL COMMENTS

Invoice To: Strongbow Exploration Inc.
860 - 625 Howe St.
Vancouver BC V6C 2T6
Canada

CC:

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Client: **Strongbow Exploration Inc.**
860 - 625 Howe St.
Vancouver BC V6C 2T6 Canada

Project: 1335
Report Date: July 29, 2010

CERTIFICATE OF ANALYSIS VAN10003150.1

Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
73810	Rock	0.39	0.4	7.2	4.6	12	0.2	0.6	1.5	207	0.86	3.9	0.1	1.2	0.5	4	<0.1	0.2	<0.1	6	0.05
73810B	Rock	0.40	1.0	2.0	1.1	11	<0.1	0.6	0.7	208	0.42	4.1	0.8	<0.5	0.2	44	<0.1	<0.1	<0.1	<2	22.91
73811	Rock	0.91	0.3	5.8	4.5	39	0.4	1.2	4.0	484	1.60	3.6	0.3	5.3	1.0	8	<0.1	0.1	<0.1	14	0.09
73812	Rock	1.10	1.0	9.2	3.7	23	0.2	0.9	1.9	695	0.86	9.3	0.2	1.2	0.5	7	<0.1	0.4	<0.1	<2	0.03
73813	Rock	0.85	1.1	1.7	5.9	28	<0.1	0.4	0.3	113	0.92	7.2	0.2	5.3	1.0	6	<0.1	0.3	<0.1	<2	0.04
77873	Rock	1.06	2.5	5.5	5.0	11	0.3	0.4	0.2	58	0.73	11.7	<0.1	3.1	0.4	14	<0.1	0.4	<0.1	<2	0.02
77874	Rock	1.12	2.1	2.2	7.0	50	0.4	1.1	2.3	936	1.16	9.0	0.3	153.8	1.0	6	0.2	0.3	<0.1	6	0.03
77875	Rock	1.37	0.7	1.8	6.9	35	<0.1	0.6	1.0	356	0.87	5.8	0.1	5.1	0.9	5	<0.1	0.2	<0.1	2	0.02
77876	Rock	0.68	0.2	2.1	6.3	42	0.1	0.8	1.2	390	1.02	4.6	0.2	17.9	0.8	8	<0.1	0.2	<0.1	3	0.04
77877	Rock	0.43	0.8	1.7	6.0	35	0.2	0.8	1.5	292	0.93	6.4	0.2	87.6	0.8	7	<0.1	0.1	0.1	3	0.06
77880	Rock Pulp	0.08	26.3	141.0	28.8	104	18.7	16.4	20.0	743	3.28	16.0	0.4	9949	0.8	57	3.2	0.3	0.2	75	1.15
77869	Rock	0.48	1.6	3.9	5.6	22	<0.1	0.5	0.3	96	0.55	5.5	0.2	5.1	1.0	5	0.2	0.3	<0.1	2	0.08
77917	Rock	0.61	1.6	5.6	6.7	24	0.2	0.4	0.4	85	0.84	9.7	0.2	2.8	0.9	6	<0.1	0.5	<0.1	<2	0.03
77918	Rock	0.75	1.0	2.6	7.4	38	<0.1	0.4	0.9	350	0.96	4.3	0.2	3.7	1.1	4	<0.1	0.3	<0.1	3	0.02
77919	Rock	0.51	2.4	2.4	8.2	45	<0.1	0.4	1.2	326	1.06	6.9	0.2	3.0	1.0	3	<0.1	0.2	<0.1	3	0.02
77920	Rock	0.59	1.7	6.5	7.8	45	<0.1	0.5	0.9	292	0.90	3.8	0.2	0.7	1.1	4	<0.1	0.5	<0.1	2	0.02
77921	Rock	0.62	0.6	2.3	7.7	41	<0.1	0.5	0.7	166	1.06	2.2	0.2	3.4	0.8	5	<0.1	0.3	<0.1	3	0.02
77922	Rock	0.64	2.2	2.5	6.6	33	0.8	0.8	0.9	444	0.81	4.7	0.2	8.9	0.7	5	<0.1	0.3	<0.1	2	0.05
77923	Rock	0.67	0.9	9.4	7.3	53	0.4	0.6	1.1	258	0.99	5.4	0.4	238.9	1.0	6	<0.1	0.3	0.1	3	0.06

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Client: **Strongbow Exploration Inc.**
860 - 625 Howe St.
Vancouver BC V6C 2T6 Canada

Project: 1335
Report Date: July 29, 2010

CERTIFICATE OF ANALYSIS VAN10003150.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
73810	Rock	0.029	3	10	0.02	39	0.001	<1	0.21	0.017	0.13	<0.1	0.03	0.5	<0.1	<0.05	<1	<0.5	<0.2
73810B	Rock	0.025	<1	1	11.00	24	0.003	<1	0.06	0.002	0.04	<0.1	0.02	0.3	<0.1	<0.05	<1	<0.5	<0.2
73811	Rock	0.064	5	6	0.05	45	0.001	<1	0.40	0.031	0.21	<0.1	0.02	0.8	<0.1	<0.05	1	<0.5	<0.2
73812	Rock	0.022	4	10	0.01	68	0.002	<1	0.28	0.030	0.16	<0.1	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2
73813	Rock	0.021	12	8	0.02	53	0.001	<1	0.23	0.046	0.14	<0.1	0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2
77873	Rock	0.016	5	8	0.01	47	<0.001	<1	0.22	0.030	0.16	<0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
77874	Rock	0.024	13	7	0.01	82	0.001	<1	0.21	0.038	0.10	<0.1	0.01	0.7	<0.1	<0.05	<1	<0.5	<0.2
77875	Rock	0.013	13	8	0.01	53	0.001	<1	0.21	0.024	0.13	<0.1	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2
77876	Rock	0.022	5	12	0.02	53	0.001	<1	0.23	0.024	0.14	<0.1	0.02	0.5	<0.1	<0.05	<1	<0.5	<0.2
77877	Rock	0.029	4	5	0.02	46	<0.001	<1	0.37	0.045	0.19	<0.1	0.01	0.6	<0.1	<0.05	1	<0.5	<0.2
77880	Rock Pulp	0.061	7	23	0.89	97	0.065	2	1.87	0.059	0.27	0.4	0.07	5.5	0.3	0.98	6	1.6	9.2
77869	Rock	0.024	16	4	0.04	32	<0.001	<1	0.23	0.016	0.18	<0.1	0.02	0.3	<0.1	<0.05	<1	<0.5	<0.2
77917	Rock	0.023	5	8	0.01	37	0.001	<1	0.19	0.033	0.14	<0.1	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2
77918	Rock	0.022	14	6	0.01	45	<0.001	<1	0.25	0.024	0.17	<0.1	0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2
77919	Rock	0.015	15	5	0.02	39	<0.001	<1	0.25	0.019	0.17	<0.1	0.02	0.4	<0.1	<0.05	<1	<0.5	<0.2
77920	Rock	0.013	14	5	0.02	48	<0.001	<1	0.23	0.020	0.16	<0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
77921	Rock	0.021	13	6	0.01	43	<0.001	<1	0.24	0.022	0.15	<0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
77922	Rock	0.024	9	8	0.03	79	0.001	<1	0.32	0.015	0.21	<0.1	0.01	0.5	<0.1	<0.05	<1	<0.5	0.4
77923	Rock	0.034	14	5	0.02	53	0.001	<1	0.35	0.034	0.23	<0.1	0.01	0.4	<0.1	<0.05	1	<0.5	<0.2

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Client: **Strongbow Exploration Inc.**
860 - 625 Howe St.
Vancouver BC V6C 2T6 Canada

Project: 1335
Report Date: July 29, 2010

QUALITY CONTROL REPORT VAN10003150.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
77873	Rock	1.06	2.5	5.5	5.0	11	0.3	0.4	0.2	58	0.73	11.7	<0.1	3.1	0.4	14	<0.1	0.4	<0.1	<2	0.02
REP 77873	QC		2.5	5.7	5.3	12	0.3	0.4	0.2	57	0.76	12.6	0.1	2.4	0.5	13	<0.1	0.4	<0.1	<2	0.02
Reference Materials																					
STD DS7	Standard		22.4	101.2	70.2	401	1.0	55.1	9.7	641	2.39	50.8	4.7	83.0	4.8	75	6.0	5.8	4.6	79	0.95
STD DS7	Standard		23.9	99.3	64.3	407	1.0	59.4	9.2	622	2.39	50.9	4.7	72.8	4.7	81	6.4	5.7	4.5	81	0.98
STD DS7	Standard		21.6	105.3	72.5	395	1.1	53.0	10.1	610	2.43	54.5	5.2	72.3	5.1	76	6.7	6.3	5.4	85	0.98
STD DS7	Standard		21.0	109.2	69.7	420	1.0	57.6	9.9	605	2.42	55.5	5.2	115.9	5.1	78	6.9	6.3	5.3	84	0.99
STD DS7	Standard		20.8	119.5	74.6	414	1.0	57.8	9.9	644	2.43	51.1	4.9	66.3	4.9	75	6.3	5.8	4.7	84	1.00
STD DS7	Standard		22.4	113.1	74.8	400	1.1	58.2	9.7	659	2.45	51.0	5.2	150.9	5.0	79	6.6	6.0	4.8	85	1.04
STD DS7 Expected			20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
Prep Wash																					
G1	Prep Blank	<0.01	0.4	2.7	3.2	50	<0.1	1.1	3.9	566	2.00	1.0	1.7	4.2	6.0	67	<0.1	<0.1	<0.1	37	0.49
G1	Prep Blank	<0.01	0.2	3.3	3.0	50	<0.1	1.1	3.8	601	2.04	0.6	1.7	1.2	6.5	66	<0.1	<0.1	<0.1	38	0.52

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Client: **Strongbow Exploration Inc.**
860 - 625 Howe St.
Vancouver BC V6C 2T6 Canada

Project: 1335
Report Date: July 29, 2010

QUALITY CONTROL REPORT VAN10003150.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																			
77873	Rock	0.016	5	8	0.01	47	<0.001	<1	0.22	0.030	0.16	<0.1	<0.01	0.3	<0.1	<0.05	<1	<0.5	<0.2
REP 77873	QC	0.017	6	7	0.01	51	<0.001	<1	0.22	0.031	0.20	<0.1	<0.01	0.3	0.1	<0.05	<1	<0.5	<0.2
Reference Materials																			
STD DS7	Standard	0.078	12	217	1.04	416	0.118	38	1.00	0.091	0.46	4.1	0.25	2.3	4.5	0.19	5	3.4	1.5
STD DS7	Standard	0.081	13	220	1.04	453	0.128	41	1.03	0.093	0.47	4.0	0.24	2.6	4.3	0.19	5	3.8	1.5
STD DS7	Standard	0.082	13	185	1.07	395	0.122	41	1.03	0.095	0.49	3.5	0.24	2.6	4.1	0.19	5	3.3	1.2
STD DS7	Standard	0.080	14	188	1.06	407	0.123	39	1.04	0.095	0.44	3.9	0.22	2.5	4.3	0.19	5	3.4	1.2
STD DS7	Standard	0.076	14	206	1.09	403	0.126	38	1.09	0.097	0.47	3.9	0.25	2.6	4.3	0.20	5	2.7	0.7
STD DS7	Standard	0.076	15	210	1.10	430	0.135	39	1.11	0.102	0.48	3.8	0.24	2.7	4.3	0.19	5	3.1	2.0
STD DS7 Expected		0.08	12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	1.08
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																			
G1	Prep Blank	0.082	15	8	0.46	119	0.120	<1	0.81	0.086	0.48	<0.1	0.03	1.9	0.3	<0.05	5	<0.5	<0.2
G1	Prep Blank	0.087	16	9	0.46	125	0.122	<1	0.85	0.097	0.44	<0.1	0.04	1.9	0.3	<0.05	5	<0.5	<0.2

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Client: **Strongbow Exploration Inc.**
860 - 625 Howe St.
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Submitted By: STRONGBOW 1
Receiving Lab: Canada-Vancouver
Received: October 07, 2010
Report Date: October 19, 2010
Page: 1 of 3

CERTIFICATE OF ANALYSIS VAN10005283.1

CLIENT JOB INFORMATION

Project:	13
Shipment ID:	1335-10-04
P.O. Number	1335
Number of Samples:	32

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	29	Crush, split and pulverize 250 g rock to 200 mesh			VAN
1DX2	31	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

STOR-PLP	Store After 90 days Invoice for Storage
STOR-RJT	Store After 90 days Invoice for Storage

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

ADDITIONAL COMMENTS

Invoice To: Strongbow Exploration Inc.
860 - 625 Howe St.
Vancouver BC V6C 2T6
Canada

CC: Ellen Stewart

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Client: **Strongbow Exploration Inc.**
860 - 625 Howe St.
Vancouver BC V6C 2T6 Canada

Project: 13
Report Date: October 19, 2010

CERTIFICATE OF ANALYSIS VAN10005283.1

Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
77852	Rock	0.89	0.5	55.5	1.2	173	<0.1	1.4	7.7	1712	3.08	2.6	0.1	<0.5	0.1	11	1.3	0.1	0.2	17	0.13
77867	Rock	0.28	1.1	1.9	5.7	32	0.4	0.6	1.3	262	0.90	3.8	0.3	47.7	0.8	5	<0.1	0.1	<0.1	4	0.05
77868	Rock	0.27	0.4	4.1	6.1	37	0.4	1.0	3.0	682	1.42	9.0	0.2	134.2	1.3	7	<0.1	0.2	0.2	5	0.08
77870	Rock	0.99	0.8	6.3	7.9	39	0.1	1.4	3.3	507	1.26	28.5	0.2	6.5	1.1	8	0.1	0.6	0.1	7	0.07
77871	Rock	1.11	0.8	2.3	4.9	46	0.1	2.0	1.2	439	1.16	2.9	0.3	2.0	1.2	8	<0.1	0.2	0.2	7	0.05
77872	Rock	0.52	0.2	4.0	4.8	28	0.2	0.9	1.5	204	0.87	11.9	0.2	4.0	1.2	8	0.1	0.2	0.1	5	0.05
77900	Rock	0.45	0.5	3.2	6.2	42	<0.1	1.2	2.4	498	0.94	7.1	0.3	39.6	1.0	9	0.2	0.2	0.1	7	0.06
77901	Rock Pulp	0.08	13.6	112.1	26.2	88	9.3	14.8	17.3	914	3.47	10.4	0.6	4947	2.1	121	1.8	0.3	0.2	82	2.05
77902	Rock	0.69	1.1	4.0	6.9	42	0.1	2.2	2.2	417	1.15	11.4	0.3	24.4	0.9	8	<0.1	0.2	0.1	7	0.06
77903	Rock	0.87	0.9	2.6	7.0	37	0.1	0.7	2.1	413	1.03	8.8	0.3	44.6	0.8	6	<0.1	0.2	0.1	5	0.04
77904	Rock	0.68	1.2	2.4	7.9	42	0.1	0.9	2.1	602	1.15	5.9	0.3	17.5	0.9	6	<0.1	0.2	0.1	6	0.06
77905	Rock	1.14	1.0	2.3	7.4	35	0.3	1.9	2.1	436	1.08	4.8	0.3	81.4	1.0	7	<0.1	0.1	0.1	6	0.06
77906	Rock	1.74	0.2	3.4	6.1	32	0.1	0.9	2.6	523	1.09	6.3	0.2	20.2	1.3	6	<0.1	0.2	0.1	5	0.08
77907	Rock	0.98	0.2	5.2	7.6	32	<0.1	1.3	2.8	719	1.24	9.5	0.2	32.8	1.2	8	<0.1	0.2	<0.1	7	0.20
77923	Rock	0.14	1.4	11.5	8.4	51	0.5	2.5	1.3	436	1.03	6.3	0.4	416.9	1.1	8	0.1	0.5	<0.1	3	0.06
77958	Rock	0.21	<0.1	13.5	3.9	40	<0.1	4.4	9.3	471	1.99	1.6	0.9	0.7	1.1	517	<0.1	0.2	<0.1	79	0.74
77959	Rock	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
77960	Rock	0.68	0.1	3.3	7.3	17	<0.1	1.0	1.0	298	0.94	4.3	0.7	<0.5	3.0	13	<0.1	0.3	<0.1	7	0.51
77961	Rock	0.49	0.2	4.9	8.9	19	<0.1	1.4	1.4	276	1.07	4.2	0.8	<0.5	3.4	9	<0.1	0.3	<0.1	9	0.16
77962	Rock	0.65	0.2	92.0	3.4	5	0.2	3.3	0.6	42	0.37	0.6	0.4	1.5	0.3	5	<0.1	0.3	<0.1	22	0.03
77963	Rock	0.34	0.1	1.1	1.5	11	<0.1	2.2	0.5	192	0.38	4.9	0.6	0.8	0.1	47	<0.1	<0.1	<0.1	<2	20.59
80985	Rock	0.09	0.1	10.4	1.4	12	<0.1	17.1	6.9	186	1.31	0.5	<0.1	<0.5	0.1	34	<0.1	<0.1	<0.1	16	0.57
80986	Rock	0.36	0.2	1.2	1.8	21	<0.1	2.6	3.2	312	1.18	0.9	2.1	<0.5	5.3	17	<0.1	<0.1	<0.1	31	0.51
81059	Rock	1.01	0.3	107.3	5.5	4	<0.1	1.2	2.2	>10000	0.64	5.2	<0.1	<0.5	0.2	206	0.9	1.0	<0.1	10	18.44
81060	Rock	0.85	0.3	1.8	5.3	18	<0.1	0.4	0.7	205	0.99	1.6	0.2	1.5	2.3	15	<0.1	0.1	<0.1	3	0.25
81061	Rock	0.23	0.5	2.7	5.1	4	<0.1	0.9	0.9	837	0.26	1.5	0.3	<0.5	0.8	15	<0.1	0.1	1.4	<2	0.12
81062	Rock	1.12	0.4	6.1	7.1	47	0.1	0.7	0.9	439	0.91	3.7	0.4	2.4	1.3	6	0.1	0.2	0.1	3	0.05
81063	Rock	0.32	0.2	0.9	3.3	54	<0.1	5.3	9.5	1000	3.13	3.9	0.3	<0.5	0.5	76	0.1	0.2	<0.1	57	2.40
81063B	Rock Pulp	0.08	13.6	109.8	26.2	89	9.1	14.1	17.1	912	3.48	10.9	0.7	4978	2.3	127	1.8	0.3	0.2	81	2.07
81064	Rock	0.93	0.1	3.8	5.0	40	0.2	1.3	2.8	655	1.41	6.6	0.3	7.7	1.6	6	0.1	0.2	0.1	10	0.05

Acme Analytical Laboratories (Vancouver) Ltd.
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Client: **Strongbow Exploration Inc.**
860 - 625 Howe St.
Vancouver BC V6C 2T6 Canada

Project: 13
Report Date: October 19, 2010

CERTIFICATE OF ANALYSIS VAN10005283.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
77852	Rock	0.055	2	5	0.93	38	0.004	<1	1.46	0.111	0.06	<0.1	0.77	4.5	<0.1	1.53	6	<0.5	1.0
77867	Rock	0.027	6	3	0.02	30	<0.001	<1	0.25	0.018	0.15	<0.1	0.03	0.5	<0.1	<0.05	<1	<0.5	<0.2
77868	Rock	0.031	13	3	0.04	86	0.001	1	0.32	0.009	0.20	<0.1	0.03	0.7	<0.1	<0.05	<1	<0.5	<0.2
77870	Rock	0.031	13	2	0.02	63	<0.001	1	0.22	0.020	0.13	<0.1	<0.01	0.7	0.1	<0.05	<1	<0.5	<0.2
77871	Rock	0.026	9	7	0.01	64	0.001	<1	0.23	0.014	0.17	<0.1	0.04	0.8	<0.1	<0.05	1	<0.5	<0.2
77872	Rock	0.024	7	7	<0.01	44	0.001	<1	0.18	0.019	0.13	<0.1	0.02	0.6	<0.1	<0.05	<1	<0.5	<0.2
77900	Rock	0.027	6	3	0.03	60	0.002	1	0.37	0.029	0.17	<0.1	0.02	0.7	<0.1	<0.05	1	<0.5	<0.2
77901	Rock Pulp	0.079	13	22	1.09	101	0.102	3	2.24	0.115	0.23	0.2	0.06	6.8	0.1	0.69	7	0.5	4.3
77902	Rock	0.030	6	4	0.02	64	0.002	<1	0.38	0.039	0.17	<0.1	0.02	0.7	<0.1	<0.05	1	<0.5	<0.2
77903	Rock	0.029	5	2	0.02	56	0.001	<1	0.32	0.030	0.16	<0.1	<0.01	0.6	<0.1	<0.05	<1	<0.5	<0.2
77904	Rock	0.032	8	2	0.02	51	0.001	<1	0.34	0.024	0.19	<0.1	0.02	0.6	<0.1	<0.05	1	<0.5	<0.2
77905	Rock	0.025	6	3	0.03	36	0.001	<1	0.37	0.030	0.22	<0.1	0.02	0.7	<0.1	<0.05	1	<0.5	<0.2
77906	Rock	0.027	14	1	0.05	32	<0.001	1	0.34	0.007	0.23	<0.1	0.02	0.5	<0.1	<0.05	<1	<0.5	<0.2
77907	Rock	0.028	12	1	0.05	71	<0.001	<1	0.32	0.007	0.21	<0.1	0.03	0.7	<0.1	<0.05	<1	<0.5	<0.2
77923	Rock	0.036	13	4	0.03	68	0.002	<1	0.45	0.047	0.27	<0.1	0.01	0.6	0.1	<0.05	1	<0.5	<0.2
77958	Rock	0.036	6	11	0.76	457	0.131	1	1.62	0.131	0.12	<0.1	<0.01	5.6	<0.1	<0.05	4	<0.5	<0.2
77959	Rock	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
77960	Rock	0.018	12	3	0.07	51	0.011	4	0.44	0.047	0.27	<0.1	0.14	2.0	<0.1	<0.05	2	<0.5	<0.2
77961	Rock	0.011	11	3	0.07	46	0.009	4	0.42	0.046	0.24	<0.1	0.15	2.5	<0.1	<0.05	2	<0.5	<0.2
77962	Rock	0.006	<1	18	<0.01	71	0.001	<1	0.07	0.004	0.02	<0.1	0.05	0.3	<0.1	<0.05	<1	<0.5	0.2
77963	Rock	0.020	<1	1	10.47	13	<0.001	<1	0.03	0.002	0.02	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
80985	Rock	0.008	2	11	0.68	36	0.021	<1	0.44	0.020	0.08	<0.1	<0.01	0.8	<0.1	<0.05	2	<0.5	<0.2
80986	Rock	0.057	6	10	0.35	140	0.121	<1	0.78	0.073	0.21	<0.1	<0.01	1.3	<0.1	<0.05	3	<0.5	<0.2
81059	Rock	0.006	7	3	0.17	2268	0.010	2	0.33	0.006	0.05	<0.1	0.79	2.1	<0.1	<0.05	1	<0.5	<0.2
81060	Rock	0.001	3	2	0.04	440	0.003	3	0.34	0.035	0.22	<0.1	0.11	1.0	<0.1	<0.05	1	<0.5	<0.2
81061	Rock	0.004	4	8	0.01	485	0.002	<1	0.24	0.019	0.09	<0.1	0.02	0.2	<0.1	<0.05	<1	<0.5	<0.2
81062	Rock	0.024	12	6	0.02	89	0.001	<1	0.22	0.037	0.13	<0.1	0.01	0.5	<0.1	<0.05	<1	<0.5	<0.2
81063	Rock	0.091	7	7	0.95	149	0.045	1	1.30	0.037	0.13	<0.1	<0.01	5.4	<0.1	<0.05	5	<0.5	<0.2
81063B	Rock Pulp	0.084	14	22	1.09	116	0.104	5	2.29	0.119	0.25	0.1	0.06	6.9	0.1	0.69	7	<0.5	3.4
81064	Rock	0.032	9	2	0.02	53	0.002	<1	0.25	0.021	0.14	<0.1	0.02	0.9	0.1	<0.05	1	<0.5	<0.2

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860 - 625 Howe St.
Vancouver BC V6C 2T6 Canada

Project: 13
Report Date: October 19, 2010

CERTIFICATE OF ANALYSIS VAN10005283.1

Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
81065	Rock	0.89	1.0	61.9	1.4	18	0.1	3.0	13.8	534	3.11	52.1	0.2	1.9	0.1	78	<0.1	0.5	0.2	30	1.81
81066	Rock	0.35	<0.1	0.4	3.2	12	<0.1	2.5	0.5	184	0.33	4.4	0.6	1.8	<0.1	112	<0.1	<0.1	<0.1	<2	21.13

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Vancouver BC V6C 2T6 Canada

Project: 13
Report Date: October 19, 2010

CERTIFICATE OF ANALYSIS VAN10005283.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
81065	Rock	0.040	<1	6	0.96	90	0.144	<1	1.57	<0.001	0.02	<0.1	0.02	4.8	<0.1	0.84	4	0.8	<0.2
81066	Rock	0.019	<1	<1	10.14	20	0.002	<1	0.03	0.002	0.02	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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Project: 13
Report Date: October 19, 2010

QUALITY CONTROL REPORT VAN10005283.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
81064	Rock	0.93	0.1	3.8	5.0	40	0.2	1.3	2.8	655	1.41	6.6	0.3	7.7	1.6	6	0.1	0.2	0.1	10	0.05
REP 81064	QC		0.2	3.6	5.1	41	0.2	1.4	2.8	643	1.38	6.8	0.2	8.9	1.5	6	<0.1	0.2	0.1	10	0.05
Core Reject Duplicates																					
81059	Rock	1.01	0.3	107.3	5.5	4	<0.1	1.2	2.2	>10000	0.64	5.2	<0.1	<0.5	0.2	206	0.9	1.0	<0.1	10	18.44
DUP 81059	QC		0.3	104.9	5.3	4	<0.1	1.6	2.2	>10000	0.65	5.2	<0.1	<0.5	0.2	214	1.0	0.9	<0.1	10	19.52
Reference Materials																					
STD DS7	Standard		18.2	98.7	68.3	357	0.9	50.3	8.7	550	2.12	46.8	4.9	71.6	5.0	68	5.6	5.8	4.7	69	0.85
STD DS7	Standard		19.4	103.9	70.6	394	1.0	53.6	9.1	604	2.30	51.3	5.2	70.4	5.0	81	5.8	6.0	4.9	73	0.93
STD DS7 Expected			20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
Prep Wash																					
G1	Prep Blank	<0.01	<0.1	2.6	3.4	40	<0.1	2.9	3.7	487	1.63	0.9	1.7	1.6	5.8	57	<0.1	<0.1	<0.1	30	0.41
G1	Prep Blank	<0.01	<0.1	3.7	4.3	42	<0.1	3.0	4.0	492	1.63	<0.5	1.6	1.4	5.6	57	<0.1	<0.1	<0.1	30	0.42

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Project: 13
Report Date: October 19, 2010

QUALITY CONTROL REPORT VAN10005283.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																			
81064	Rock	0.032	9	2	0.02	53	0.002	<1	0.25	0.021	0.14	<0.1	0.02	0.9	0.1	<0.05	1	<0.5	<0.2
REP 81064	QC	0.033	9	4	0.02	50	0.002	<1	0.24	0.021	0.13	<0.1	0.01	0.9	<0.1	<0.05	1	<0.5	<0.2
Core Reject Duplicates																			
81059	Rock	0.006	7	3	0.17	2268	0.010	2	0.33	0.006	0.05	<0.1	0.79	2.1	<0.1	<0.05	1	<0.5	<0.2
DUP 81059	QC	0.006	7	4	0.21	2215	0.009	<1	0.33	0.004	0.04	<0.1	0.66	2.2	<0.1	<0.05	1	<0.5	<0.2
Reference Materials																			
STD DS7	Standard	0.069	12	185	0.93	356	0.119	38	0.89	0.083	0.43	3.2	0.21	2.1	3.5	0.17	4	2.6	0.8
STD DS7	Standard	0.070	13	195	1.01	371	0.132	37	0.99	0.091	0.44	3.7	0.24	2.2	3.7	0.18	5	2.7	1.1
STD DS7 Expected		0.08	12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	1.08
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																			
G1	Prep Blank	0.069	11	6	0.50	161	0.126	<1	0.92	0.097	0.49	<0.1	<0.01	1.7	0.2	<0.05	4	<0.5	<0.2
G1	Prep Blank	0.067	11	7	0.50	160	0.124	1	0.92	0.101	0.49	<0.1	<0.01	1.7	0.3	<0.05	4	<0.5	<0.2

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Submitted By: STRONGBOW 1
Receiving Lab: Canada-Vancouver
Received: October 07, 2010
Report Date: October 19, 2010
Page: 1 of 3

CERTIFICATE OF ANALYSIS VAN10005283.1

CLIENT JOB INFORMATION

Project:	13
Shipment ID:	1335-10-04
P.O. Number	1335
Number of Samples:	32

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
R200-250	29	Crush, split and pulverize 250 g rock to 200 mesh			VAN
1DX2	31	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

SAMPLE DISPOSAL

STOR-PLP	Store After 90 days Invoice for Storage
STOR-RJT	Store After 90 days Invoice for Storage

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

ADDITIONAL COMMENTS

Invoice To: Strongbow Exploration Inc.
860 - 625 Howe St.
Vancouver BC V6C 2T6
Canada

CC: Ellen Stewart

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.
"*" asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.

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Project: 13
Report Date: October 19, 2010

CERTIFICATE OF ANALYSIS VAN10005283.1

Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
77852	Rock	0.89	0.5	55.5	1.2	173	<0.1	1.4	7.7	1712	3.08	2.6	0.1	<0.5	0.1	11	1.3	0.1	0.2	17	0.13
77867	Rock	0.28	1.1	1.9	5.7	32	0.4	0.6	1.3	262	0.90	3.8	0.3	47.7	0.8	5	<0.1	0.1	<0.1	4	0.05
77868	Rock	0.27	0.4	4.1	6.1	37	0.4	1.0	3.0	682	1.42	9.0	0.2	134.2	1.3	7	<0.1	0.2	0.2	5	0.08
77870	Rock	0.99	0.8	6.3	7.9	39	0.1	1.4	3.3	507	1.26	28.5	0.2	6.5	1.1	8	0.1	0.6	0.1	7	0.07
77871	Rock	1.11	0.8	2.3	4.9	46	0.1	2.0	1.2	439	1.16	2.9	0.3	2.0	1.2	8	<0.1	0.2	0.2	7	0.05
77872	Rock	0.52	0.2	4.0	4.8	28	0.2	0.9	1.5	204	0.87	11.9	0.2	4.0	1.2	8	0.1	0.2	0.1	5	0.05
77900	Rock	0.45	0.5	3.2	6.2	42	<0.1	1.2	2.4	498	0.94	7.1	0.3	39.6	1.0	9	0.2	0.2	0.1	7	0.06
77901	Rock Pulp	0.08	13.6	112.1	26.2	88	9.3	14.8	17.3	914	3.47	10.4	0.6	4947	2.1	121	1.8	0.3	0.2	82	2.05
77902	Rock	0.69	1.1	4.0	6.9	42	0.1	2.2	2.2	417	1.15	11.4	0.3	24.4	0.9	8	<0.1	0.2	0.1	7	0.06
77903	Rock	0.87	0.9	2.6	7.0	37	0.1	0.7	2.1	413	1.03	8.8	0.3	44.6	0.8	6	<0.1	0.2	0.1	5	0.04
77904	Rock	0.68	1.2	2.4	7.9	42	0.1	0.9	2.1	602	1.15	5.9	0.3	17.5	0.9	6	<0.1	0.2	0.1	6	0.06
77905	Rock	1.14	1.0	2.3	7.4	35	0.3	1.9	2.1	436	1.08	4.8	0.3	81.4	1.0	7	<0.1	0.1	0.1	6	0.06
77906	Rock	1.74	0.2	3.4	6.1	32	0.1	0.9	2.6	523	1.09	6.3	0.2	20.2	1.3	6	<0.1	0.2	0.1	5	0.08
77907	Rock	0.98	0.2	5.2	7.6	32	<0.1	1.3	2.8	719	1.24	9.5	0.2	32.8	1.2	8	<0.1	0.2	<0.1	7	0.20
77923	Rock	0.14	1.4	11.5	8.4	51	0.5	2.5	1.3	436	1.03	6.3	0.4	416.9	1.1	8	0.1	0.5	<0.1	3	0.06
77958	Rock	0.21	<0.1	13.5	3.9	40	<0.1	4.4	9.3	471	1.99	1.6	0.9	0.7	1.1	517	<0.1	0.2	<0.1	79	0.74
77959	Rock	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
77960	Rock	0.68	0.1	3.3	7.3	17	<0.1	1.0	1.0	298	0.94	4.3	0.7	<0.5	3.0	13	<0.1	0.3	<0.1	7	0.51
77961	Rock	0.49	0.2	4.9	8.9	19	<0.1	1.4	1.4	276	1.07	4.2	0.8	<0.5	3.4	9	<0.1	0.3	<0.1	9	0.16
77962	Rock	0.65	0.2	92.0	3.4	5	0.2	3.3	0.6	42	0.37	0.6	0.4	1.5	0.3	5	<0.1	0.3	<0.1	22	0.03
77963	Rock	0.34	0.1	1.1	1.5	11	<0.1	2.2	0.5	192	0.38	4.9	0.6	0.8	0.1	47	<0.1	<0.1	<0.1	<2	20.59
80985	Rock	0.09	0.1	10.4	1.4	12	<0.1	17.1	6.9	186	1.31	0.5	<0.1	<0.5	0.1	34	<0.1	<0.1	<0.1	16	0.57
80986	Rock	0.36	0.2	1.2	1.8	21	<0.1	2.6	3.2	312	1.18	0.9	2.1	<0.5	5.3	17	<0.1	<0.1	<0.1	31	0.51
81059	Rock	1.01	0.3	107.3	5.5	4	<0.1	1.2	2.2	>10000	0.64	5.2	<0.1	<0.5	0.2	206	0.9	1.0	<0.1	10	18.44
81060	Rock	0.85	0.3	1.8	5.3	18	<0.1	0.4	0.7	205	0.99	1.6	0.2	1.5	2.3	15	<0.1	0.1	<0.1	3	0.25
81061	Rock	0.23	0.5	2.7	5.1	4	<0.1	0.9	0.9	837	0.26	1.5	0.3	<0.5	0.8	15	<0.1	0.1	1.4	<2	0.12
81062	Rock	1.12	0.4	6.1	7.1	47	0.1	0.7	0.9	439	0.91	3.7	0.4	2.4	1.3	6	0.1	0.2	0.1	3	0.05
81063	Rock	0.32	0.2	0.9	3.3	54	<0.1	5.3	9.5	1000	3.13	3.9	0.3	<0.5	0.5	76	0.1	0.2	<0.1	57	2.40
81063B	Rock Pulp	0.08	13.6	109.8	26.2	89	9.1	14.1	17.1	912	3.48	10.9	0.7	4978	2.3	127	1.8	0.3	0.2	81	2.07
81064	Rock	0.93	0.1	3.8	5.0	40	0.2	1.3	2.8	655	1.41	6.6	0.3	7.7	1.6	6	0.1	0.2	0.1	10	0.05

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860 - 625 Howe St.
Vancouver BC V6C 2T6 Canada

Project: 13
Report Date: October 19, 2010

CERTIFICATE OF ANALYSIS VAN10005283.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
77852	Rock	0.055	2	5	0.93	38	0.004	<1	1.46	0.111	0.06	<0.1	0.77	4.5	<0.1	1.53	6	<0.5	1.0
77867	Rock	0.027	6	3	0.02	30	<0.001	<1	0.25	0.018	0.15	<0.1	0.03	0.5	<0.1	<0.05	<1	<0.5	<0.2
77868	Rock	0.031	13	3	0.04	86	0.001	1	0.32	0.009	0.20	<0.1	0.03	0.7	<0.1	<0.05	<1	<0.5	<0.2
77870	Rock	0.031	13	2	0.02	63	<0.001	1	0.22	0.020	0.13	<0.1	<0.01	0.7	0.1	<0.05	<1	<0.5	<0.2
77871	Rock	0.026	9	7	0.01	64	0.001	<1	0.23	0.014	0.17	<0.1	0.04	0.8	<0.1	<0.05	1	<0.5	<0.2
77872	Rock	0.024	7	7	<0.01	44	0.001	<1	0.18	0.019	0.13	<0.1	0.02	0.6	<0.1	<0.05	<1	<0.5	<0.2
77900	Rock	0.027	6	3	0.03	60	0.002	1	0.37	0.029	0.17	<0.1	0.02	0.7	<0.1	<0.05	1	<0.5	<0.2
77901	Rock Pulp	0.079	13	22	1.09	101	0.102	3	2.24	0.115	0.23	0.2	0.06	6.8	0.1	0.69	7	0.5	4.3
77902	Rock	0.030	6	4	0.02	64	0.002	<1	0.38	0.039	0.17	<0.1	0.02	0.7	<0.1	<0.05	1	<0.5	<0.2
77903	Rock	0.029	5	2	0.02	56	0.001	<1	0.32	0.030	0.16	<0.1	<0.01	0.6	<0.1	<0.05	<1	<0.5	<0.2
77904	Rock	0.032	8	2	0.02	51	0.001	<1	0.34	0.024	0.19	<0.1	0.02	0.6	<0.1	<0.05	1	<0.5	<0.2
77905	Rock	0.025	6	3	0.03	36	0.001	<1	0.37	0.030	0.22	<0.1	0.02	0.7	<0.1	<0.05	1	<0.5	<0.2
77906	Rock	0.027	14	1	0.05	32	<0.001	1	0.34	0.007	0.23	<0.1	0.02	0.5	<0.1	<0.05	<1	<0.5	<0.2
77907	Rock	0.028	12	1	0.05	71	<0.001	<1	0.32	0.007	0.21	<0.1	0.03	0.7	<0.1	<0.05	<1	<0.5	<0.2
77923	Rock	0.036	13	4	0.03	68	0.002	<1	0.45	0.047	0.27	<0.1	0.01	0.6	0.1	<0.05	1	<0.5	<0.2
77958	Rock	0.036	6	11	0.76	457	0.131	1	1.62	0.131	0.12	<0.1	<0.01	5.6	<0.1	<0.05	4	<0.5	<0.2
77959	Rock	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
77960	Rock	0.018	12	3	0.07	51	0.011	4	0.44	0.047	0.27	<0.1	0.14	2.0	<0.1	<0.05	2	<0.5	<0.2
77961	Rock	0.011	11	3	0.07	46	0.009	4	0.42	0.046	0.24	<0.1	0.15	2.5	<0.1	<0.05	2	<0.5	<0.2
77962	Rock	0.006	<1	18	<0.01	71	0.001	<1	0.07	0.004	0.02	<0.1	0.05	0.3	<0.1	<0.05	<1	<0.5	0.2
77963	Rock	0.020	<1	1	10.47	13	<0.001	<1	0.03	0.002	0.02	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
80985	Rock	0.008	2	11	0.68	36	0.021	<1	0.44	0.020	0.08	<0.1	<0.01	0.8	<0.1	<0.05	2	<0.5	<0.2
80986	Rock	0.057	6	10	0.35	140	0.121	<1	0.78	0.073	0.21	<0.1	<0.01	1.3	<0.1	<0.05	3	<0.5	<0.2
81059	Rock	0.006	7	3	0.17	2268	0.010	2	0.33	0.006	0.05	<0.1	0.79	2.1	<0.1	<0.05	1	<0.5	<0.2
81060	Rock	0.001	3	2	0.04	440	0.003	3	0.34	0.035	0.22	<0.1	0.11	1.0	<0.1	<0.05	1	<0.5	<0.2
81061	Rock	0.004	4	8	0.01	485	0.002	<1	0.24	0.019	0.09	<0.1	0.02	0.2	<0.1	<0.05	<1	<0.5	<0.2
81062	Rock	0.024	12	6	0.02	89	0.001	<1	0.22	0.037	0.13	<0.1	0.01	0.5	<0.1	<0.05	<1	<0.5	<0.2
81063	Rock	0.091	7	7	0.95	149	0.045	1	1.30	0.037	0.13	<0.1	<0.01	5.4	<0.1	<0.05	5	<0.5	<0.2
81063B	Rock Pulp	0.084	14	22	1.09	116	0.104	5	2.29	0.119	0.25	0.1	0.06	6.9	0.1	0.69	7	<0.5	3.4
81064	Rock	0.032	9	2	0.02	53	0.002	<1	0.25	0.021	0.14	<0.1	0.02	0.9	0.1	<0.05	1	<0.5	<0.2

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860 - 625 Howe St.
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Project: 13
Report Date: October 19, 2010

CERTIFICATE OF ANALYSIS VAN10005283.1

Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
81065	Rock	0.89	1.0	61.9	1.4	18	0.1	3.0	13.8	534	3.11	52.1	0.2	1.9	0.1	78	<0.1	0.5	0.2	30	1.81
81066	Rock	0.35	<0.1	0.4	3.2	12	<0.1	2.5	0.5	184	0.33	4.4	0.6	1.8	<0.1	112	<0.1	<0.1	<0.1	<2	21.13

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Project: 13
Report Date: October 19, 2010

CERTIFICATE OF ANALYSIS VAN10005283.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
81065	Rock	0.040	<1	6	0.96	90	0.144	<1	1.57	<0.001	0.02	<0.1	0.02	4.8	<0.1	0.84	4	0.8	<0.2
81066	Rock	0.019	<1	<1	10.14	20	0.002	<1	0.03	0.002	0.02	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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Project: 13
Report Date: October 19, 2010

QUALITY CONTROL REPORT VAN10005283.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
81064	Rock	0.93	0.1	3.8	5.0	40	0.2	1.3	2.8	655	1.41	6.6	0.3	7.7	1.6	6	0.1	0.2	0.1	10	0.05
REP 81064	QC		0.2	3.6	5.1	41	0.2	1.4	2.8	643	1.38	6.8	0.2	8.9	1.5	6	<0.1	0.2	0.1	10	0.05
Core Reject Duplicates																					
81059	Rock	1.01	0.3	107.3	5.5	4	<0.1	1.2	2.2	>10000	0.64	5.2	<0.1	<0.5	0.2	206	0.9	1.0	<0.1	10	18.44
DUP 81059	QC		0.3	104.9	5.3	4	<0.1	1.6	2.2	>10000	0.65	5.2	<0.1	<0.5	0.2	214	1.0	0.9	<0.1	10	19.52
Reference Materials																					
STD DS7	Standard		18.2	98.7	68.3	357	0.9	50.3	8.7	550	2.12	46.8	4.9	71.6	5.0	68	5.6	5.8	4.7	69	0.85
STD DS7	Standard		19.4	103.9	70.6	394	1.0	53.6	9.1	604	2.30	51.3	5.2	70.4	5.0	81	5.8	6.0	4.9	73	0.93
STD DS7 Expected			20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
Prep Wash																					
G1	Prep Blank	<0.01	<0.1	2.6	3.4	40	<0.1	2.9	3.7	487	1.63	0.9	1.7	1.6	5.8	57	<0.1	<0.1	<0.1	30	0.41
G1	Prep Blank	<0.01	<0.1	3.7	4.3	42	<0.1	3.0	4.0	492	1.63	<0.5	1.6	1.4	5.6	57	<0.1	<0.1	<0.1	30	0.42

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Project: 13
Report Date: October 19, 2010

QUALITY CONTROL REPORT VAN10005283.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																			
81064	Rock	0.032	9	2	0.02	53	0.002	<1	0.25	0.021	0.14	<0.1	0.02	0.9	0.1	<0.05	1	<0.5	<0.2
REP 81064	QC	0.033	9	4	0.02	50	0.002	<1	0.24	0.021	0.13	<0.1	0.01	0.9	<0.1	<0.05	1	<0.5	<0.2
Core Reject Duplicates																			
81059	Rock	0.006	7	3	0.17	2268	0.010	2	0.33	0.006	0.05	<0.1	0.79	2.1	<0.1	<0.05	1	<0.5	<0.2
DUP 81059	QC	0.006	7	4	0.21	2215	0.009	<1	0.33	0.004	0.04	<0.1	0.66	2.2	<0.1	<0.05	1	<0.5	<0.2
Reference Materials																			
STD DS7	Standard	0.069	12	185	0.93	356	0.119	38	0.89	0.083	0.43	3.2	0.21	2.1	3.5	0.17	4	2.6	0.8
STD DS7	Standard	0.070	13	195	1.01	371	0.132	37	0.99	0.091	0.44	3.7	0.24	2.2	3.7	0.18	5	2.7	1.1
STD DS7 Expected		0.08	12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	1.08
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
Prep Wash																			
G1	Prep Blank	0.069	11	6	0.50	161	0.126	<1	0.92	0.097	0.49	<0.1	<0.01	1.7	0.2	<0.05	4	<0.5	<0.2
G1	Prep Blank	0.067	11	7	0.50	160	0.124	1	0.92	0.101	0.49	<0.1	<0.01	1.7	0.3	<0.05	4	<0.5	<0.2

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Submitted By: STRONGBOW 1
Receiving Lab: Canada-Vancouver
Received: October 07, 2010
Report Date: October 25, 2010
Page: 1 of 12

CERTIFICATE OF ANALYSIS VAN10005284.1

CLIENT JOB INFORMATION

Project: 13
Shipment ID: 1335-10-02
P.O. Number 1335
Number of Samples: 317

SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage
STOR-RJT-SOIL Store Soil Reject - RJSV Charges Apply

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	315	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	315	Dry at 60C			VAN
RJSV	315	Save all or part of soil reject fraction			VAN
RJSV	315	Saving all or part of Soil Reject			VAN
1DX2	314	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

ADDITIONAL COMMENTS

Invoice To: Strongbow Exploration Inc.
860 - 625 Howe St.
Vancouver BC V6C 2T6
Canada

CC: Ellen Stewart

BRITISH COLUMBIA CERTIFIED ASSAYER
CLARENCE LEONG
GENERAL MANAGER

Acme Analytical Laboratories (Vancouver) Ltd.
1020 Cordova St. East Vancouver BC V6A 4A3 Canada
Phone (604) 253-3158 Fax (604) 253-1716
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Client: **Strongbow Exploration Inc.**
860 - 625 Howe St.
Vancouver BC V6C 2T6 Canada

Project: 13
Report Date: October 25, 2010

CERTIFICATE OF ANALYSIS VAN10005284.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
77837	Soil		0.6	14.8	8.6	71	0.7	9.3	7.2	998	2.39	4.1	0.5	5.1	1.1	36	0.2	0.5	0.1	64	0.31
77838	Soil		0.6	9.5	8.6	87	0.5	6.3	5.3	2247	1.82	2.3	0.3	60.6	0.6	25	0.2	0.3	0.1	50	0.25
77839	Soil		0.6	13.3	6.6	51	0.3	7.9	6.4	372	2.32	3.0	0.5	3.4	1.2	39	<0.1	0.4	<0.1	65	0.24
77840	Soil		0.7	10.9	7.3	50	0.1	6.1	6.0	484	2.25	2.4	0.4	3.3	0.9	33	<0.1	0.4	<0.1	66	0.25
77841	Soil		0.6	22.6	8.2	62	0.6	10.9	8.6	683	2.78	5.3	0.6	4.3	1.7	66	<0.1	0.5	<0.1	69	0.43
77842	Soil		0.6	11.3	6.9	74	0.1	8.0	6.0	1025	2.12	2.2	0.4	20.0	0.9	30	0.1	0.3	0.1	58	0.27
77843	Soil		0.6	21.1	7.3	53	0.3	9.9	8.7	475	2.97	5.8	0.6	1.0	1.6	65	<0.1	0.6	<0.1	76	0.41
77844	Soil		0.4	7.2	5.7	42	<0.1	5.2	4.9	475	1.90	1.8	0.3	1.3	0.7	27	<0.1	0.4	<0.1	54	0.18
77845	Soil		0.5	17.4	6.8	48	0.3	8.3	7.6	497	2.48	3.9	0.7	1.9	1.4	62	<0.1	0.4	<0.1	67	0.38
77846	Soil		0.5	9.2	5.8	46	<0.1	5.1	4.3	504	1.73	1.5	0.3	0.6	0.8	34	<0.1	0.3	<0.1	50	0.22
77847	Soil		0.4	23.5	8.2	44	0.4	10.5	8.0	416	2.79	6.6	0.7	40.3	2.2	57	<0.1	0.5	<0.1	71	0.46
77848	Soil		0.5	10.6	7.2	56	0.4	7.6	5.4	962	1.91	2.0	0.4	9.2	1.0	31	0.1	0.3	<0.1	52	0.27
77849	Soil		0.5	21.0	6.6	54	0.6	9.8	8.1	568	2.70	4.9	0.5	4.4	1.4	53	<0.1	0.5	<0.1	71	0.38
77850	Soil		0.6	9.0	6.7	60	0.4	6.2	5.3	1302	1.91	2.2	0.3	8.3	0.6	37	0.2	0.4	<0.1	54	0.35
77853	Soil		0.6	17.9	7.6	64	0.8	10.1	7.6	450	2.73	4.4	0.5	4.2	1.5	42	0.1	0.5	<0.1	71	0.29
77854	Soil		0.5	14.6	6.7	70	0.5	9.5	6.5	449	2.39	2.8	0.4	32.3	1.2	27	0.1	0.4	0.1	63	0.23
77855	Soil		0.6	15.7	6.3	68	0.5	9.3	7.3	839	2.58	3.7	0.5	1.8	1.2	41	0.1	0.4	<0.1	70	0.32
77856	Soil		0.6	16.6	6.2	61	0.2	9.8	7.0	567	2.66	3.7	0.5	<0.5	1.3	43	0.1	0.5	<0.1	75	0.32
77857	Soil		0.6	24.7	7.5	59	0.5	11.9	9.1	575	2.97	6.8	0.6	0.9	1.7	54	<0.1	0.5	<0.1	73	0.41
77858	Soil		0.6	11.5	6.7	69	0.4	8.0	5.9	771	2.05	3.1	0.4	2.4	1.1	27	0.1	0.3	<0.1	53	0.22
77859	Soil		0.8	10.8	8.9	67	1.3	4.8	7.0	1069	2.08	22.5	0.5	5.5	0.9	25	0.1	0.5	0.1	36	0.29
77860	Soil		0.6	12.3	8.6	75	0.5	7.1	6.6	1301	2.20	6.3	0.5	3.6	0.9	35	0.2	0.4	0.1	56	0.42
77861	Soil		0.6	10.3	7.0	61	1.5	5.6	7.3	971	2.34	4.3	0.5	39.4	1.3	27	0.1	0.3	<0.1	47	0.25
77862	Soil		0.5	12.0	7.2	59	0.2	7.2	6.5	829	2.42	3.1	0.5	11.9	1.1	34	0.1	0.4	<0.1	65	0.35
77863	Soil		0.5	15.7	6.6	78	0.6	8.9	8.1	841	2.60	3.9	0.6	2.9	1.1	46	0.2	0.4	<0.1	71	0.41
77864	Soil		0.6	12.1	7.9	76	0.2	7.0	6.4	935	1.97	2.2	0.4	0.7	0.9	37	0.2	0.3	<0.1	53	0.36
77955	Soil		0.5	6.7	5.2	43	<0.1	5.1	3.7	423	1.42	1.4	0.3	0.9	0.8	23	<0.1	0.2	<0.1	42	0.21
77956	Soil		0.4	35.6	12.1	47	0.1	8.6	3.5	1007	1.17	2.6	6.4	6.3	1.3	108	0.3	0.5	<0.1	24	1.31
77957	Soil		0.5	8.9	6.0	55	<0.1	6.8	4.8	767	1.39	3.0	0.3	<0.5	0.8	18	0.1	0.2	0.1	36	0.20
80700	Soil		0.6	10.0	6.6	52	<0.1	5.8	4.5	563	1.49	2.2	0.3	2.7	0.8	24	0.1	0.4	<0.1	40	0.20

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Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
77837	Soil	0.068	7	18	0.33	183	0.091	1	1.54	0.021	0.09	0.2	0.02	3.1	<0.1	<0.05	5	<0.5	<0.2
77838	Soil	0.075	4	12	0.19	196	0.069	<1	1.14	0.013	0.06	<0.1	0.03	1.7	<0.1	<0.05	4	<0.5	<0.2
77839	Soil	0.028	10	17	0.27	147	0.104	2	1.26	0.021	0.09	0.2	0.04	3.1	<0.1	<0.05	4	<0.5	<0.2
77840	Soil	0.026	6	14	0.23	146	0.090	2	1.07	0.015	0.08	<0.1	0.03	2.3	<0.1	<0.05	4	<0.5	<0.2
77841	Soil	0.058	15	21	0.48	205	0.089	2	1.86	0.025	0.12	0.3	0.02	4.7	<0.1	<0.05	5	<0.5	<0.2
77842	Soil	0.044	5	14	0.24	180	0.091	2	1.36	0.018	0.09	<0.1	0.02	2.4	<0.1	<0.05	5	<0.5	<0.2
77843	Soil	0.046	8	21	0.43	186	0.097	3	1.70	0.027	0.12	0.2	0.02	5.1	<0.1	<0.05	5	<0.5	<0.2
77844	Soil	0.033	4	11	0.17	130	0.084	1	1.03	0.017	0.06	<0.1	0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
77845	Soil	0.023	13	17	0.38	150	0.099	3	1.33	0.046	0.09	0.4	0.04	5.2	<0.1	<0.05	4	<0.5	<0.2
77846	Soil	0.017	7	12	0.20	128	0.090	1	0.90	0.015	0.06	<0.1	0.01	2.3	<0.1	<0.05	3	<0.5	<0.2
77847	Soil	0.050	18	21	0.50	188	0.093	2	1.83	0.029	0.10	0.2	0.02	5.4	<0.1	<0.05	6	<0.5	<0.2
77848	Soil	0.043	7	12	0.23	167	0.077	1	1.41	0.016	0.09	<0.1	0.03	2.1	<0.1	<0.05	5	<0.5	<0.2
77849	Soil	0.050	9	20	0.40	182	0.089	1	1.69	0.024	0.10	0.3	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
77850	Soil	0.035	5	11	0.21	177	0.076	2	1.19	0.014	0.10	<0.1	0.03	2.0	<0.1	<0.05	5	<0.5	<0.2
77853	Soil	0.052	7	19	0.36	181	0.102	1	1.80	0.017	0.11	0.4	0.02	3.8	<0.1	<0.05	6	<0.5	<0.2
77854	Soil	0.061	5	15	0.27	161	0.097	1	1.89	0.020	0.09	0.1	0.03	2.6	<0.1	<0.05	6	<0.5	<0.2
77855	Soil	0.056	6	18	0.33	184	0.105	2	1.53	0.019	0.10	0.6	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
77856	Soil	0.046	6	18	0.36	173	0.112	2	1.49	0.018	0.09	0.1	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
77857	Soil	0.077	9	21	0.51	182	0.080	2	2.18	0.017	0.10	0.2	0.02	4.8	<0.1	<0.05	6	<0.5	<0.2
77858	Soil	0.099	5	13	0.24	179	0.078	2	1.93	0.017	0.09	0.1	0.02	2.5	<0.1	<0.05	6	<0.5	<0.2
77859	Soil	0.064	7	12	0.15	120	0.029	1	1.03	0.013	0.15	1.4	0.04	2.0	0.1	<0.05	3	<0.5	<0.2
77860	Soil	0.080	7	14	0.22	185	0.068	2	1.47	0.014	0.14	0.2	0.05	2.6	<0.1	<0.05	5	<0.5	<0.2
77861	Soil	0.030	9	17	0.19	129	0.051	<1	0.94	0.012	0.15	0.9	0.02	2.5	0.1	<0.05	3	<0.5	<0.2
77862	Soil	0.025	8	15	0.25	159	0.097	2	1.23	0.013	0.13	<0.1	0.03	2.8	<0.1	<0.05	4	<0.5	<0.2
77863	Soil	0.038	9	17	0.28	195	0.111	3	1.40	0.022	0.12	0.3	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
77864	Soil	0.038	7	13	0.21	216	0.071	2	1.20	0.017	0.12	<0.1	0.03	2.4	<0.1	<0.05	4	<0.5	<0.2
77955	Soil	0.054	3	11	0.17	121	0.071	2	0.80	0.014	0.08	<0.1	0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
77956	Soil	0.055	39	9	0.21	248	0.022	6	1.64	0.026	0.20	0.1	0.06	3.0	<0.1	0.07	4	<0.5	<0.2
77957	Soil	0.132	4	11	0.21	183	0.071	<1	1.57	0.014	0.09	<0.1	0.02	2.0	<0.1	<0.05	6	<0.5	<0.2
80700	Soil	0.070	5	11	0.18	143	0.063	<1	0.96	0.018	0.05	<0.1	0.01	1.8	<0.1	<0.05	4	<0.5	<0.2

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Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
80702	Soil		0.6	14.6	7.7	68	<0.1	7.2	5.6	1307	1.59	2.7	0.4	2.1	0.8	46	0.2	0.3	<0.1	44	0.57
80703	Soil		0.6	23.6	7.5	86	<0.1	9.5	6.9	879	1.87	2.9	0.8	1.1	0.9	63	0.4	0.3	0.1	51	0.61
80704	Soil		0.7	15.1	6.9	52	<0.1	7.1	5.6	597	1.48	2.9	0.7	3.5	0.7	38	0.2	0.3	<0.1	40	0.34
80705	Soil		0.9	9.0	8.7	37	<0.1	4.2	4.2	739	1.20	1.9	0.3	2.0	0.6	49	0.2	0.4	<0.1	36	0.49
80706	Soil		0.5	20.0	7.6	54	0.1	7.5	5.1	1054	1.35	2.4	0.8	1.0	0.4	68	0.2	0.3	<0.1	39	0.68
80707	Soil		0.5	8.3	5.0	65	<0.1	6.0	4.0	725	1.44	1.4	0.3	1.0	0.7	26	0.2	0.2	<0.1	43	0.21
80708	Soil		0.8	8.1	8.3	82	<0.1	4.7	3.5	1469	1.16	2.0	0.3	3.5	0.5	49	0.4	0.3	<0.1	33	0.51
80709	Soil		0.6	14.1	6.5	89	<0.1	10.9	6.2	1113	1.89	1.8	0.3	1.1	1.1	44	0.3	0.2	<0.1	55	0.42
80710	Soil		0.8	14.7	7.9	102	<0.1	6.5	4.9	1546	1.59	1.6	0.3	1.2	0.8	55	0.5	0.2	<0.1	44	0.53
80711	Soil		0.9	32.2	9.3	84	0.4	8.8	5.6	886	1.36	3.9	0.7	4.9	0.3	107	0.3	0.3	<0.1	33	1.49
80712	Soil		0.7	24.4	8.8	79	0.1	9.3	7.8	1043	1.91	3.5	0.8	2.1	0.6	58	0.3	0.3	<0.1	47	0.67
80713	Soil		0.8	20.8	8.7	84	<0.1	8.1	7.8	1433	1.86	2.6	0.5	<0.5	0.7	46	0.5	0.3	<0.1	50	0.44
80714	Soil		0.6	20.3	7.0	53	<0.1	9.9	7.2	700	1.91	2.7	0.6	1.3	1.2	54	0.2	0.3	<0.1	56	0.49
80715	Soil		0.8	13.5	7.7	121	1.9	6.0	4.3	1849	1.81	4.9	0.3	77.6	0.8	51	0.6	0.5	<0.1	55	0.51
80716	Soil		0.7	5.7	6.9	30	<0.1	3.3	2.8	582	0.90	1.2	0.2	<0.5	0.5	37	0.2	0.1	<0.1	25	0.43
80717	Soil		0.6	6.1	8.3	49	<0.1	3.5	3.8	794	1.42	6.8	0.3	14.7	0.6	42	0.2	0.2	0.1	29	0.38
80718	Soil		0.4	7.5	6.7	75	<0.1	2.3	3.4	1487	1.13	9.2	0.2	0.8	0.5	38	0.3	0.2	0.1	16	0.49
80719	Soil		0.7	13.5	8.8	55	<0.1	5.4	4.9	711	1.70	3.9	0.8	4.7	0.9	61	0.1	0.3	0.1	37	0.39
80720	Soil		0.5	7.2	8.2	44	<0.1	2.6	3.4	548	1.46	2.3	0.4	0.7	1.0	26	0.1	0.1	<0.1	21	0.22
80721	Soil		0.5	8.4	8.4	89	<0.1	3.4	4.0	1531	1.37	6.8	0.3	1.6	0.6	38	0.5	0.3	0.1	24	0.36
80722	Soil		0.4	5.9	5.8	39	<0.1	3.7	3.2	613	1.37	1.6	0.4	<0.5	0.9	22	<0.1	0.2	<0.1	33	0.13
80723	Soil		0.3	4.8	7.1	50	<0.1	2.4	2.5	951	1.12	2.5	0.2	1.6	0.5	19	0.1	0.2	<0.1	20	0.18
80724	Soil		0.5	7.3	5.9	44	<0.1	5.3	3.8	336	1.42	1.5	0.3	5.6	0.9	21	<0.1	0.3	<0.1	40	0.17
80725	Soil		0.5	6.5	8.3	48	<0.1	4.8	3.7	784	1.34	3.9	0.3	0.9	0.6	21	0.1	0.7	<0.1	30	0.18
80726	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
80727	Soil		0.2	3.6	6.8	32	<0.1	2.3	2.9	319	0.97	1.9	0.1	0.5	0.6	17	<0.1	0.4	<0.1	22	0.16
80728	Soil		0.4	7.6	5.8	35	<0.1	4.9	4.1	273	1.56	1.3	0.3	0.5	0.9	30	<0.1	0.3	<0.1	46	0.19
80729	Soil		0.3	16.2	6.0	22	<0.1	7.5	6.3	180	1.70	1.9	0.5	0.6	1.0	50	<0.1	0.3	<0.1	51	0.68
80730	Soil		0.3	13.5	5.2	43	<0.1	7.7	5.1	433	1.60	1.1	0.5	1.8	0.9	29	<0.1	0.2	<0.1	44	0.25
80731	Soil		0.6	9.3	5.8	62	<0.1	7.8	6.6	412	2.17	1.4	0.3	<0.5	0.8	25	0.1	0.2	<0.1	68	0.24

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Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
80702	Soil	0.052	6	12	0.23	268	0.077	2	1.03	0.017	0.09	<0.1	0.05	2.0	<0.1	<0.05	4	<0.5	<0.2
80703	Soil	0.034	13	16	0.28	203	0.086	2	1.21	0.018	0.18	<0.1	0.03	3.0	<0.1	<0.05	4	<0.5	<0.2
80704	Soil	0.030	14	12	0.23	113	0.062	1	0.91	0.018	0.08	<0.1	0.04	2.6	<0.1	<0.05	3	<0.5	<0.2
80705	Soil	0.021	5	9	0.17	152	0.067	1	0.57	0.017	0.08	<0.1	0.06	1.5	<0.1	<0.05	2	<0.5	<0.2
80706	Soil	0.035	31	13	0.24	179	0.058	1	0.94	0.020	0.08	<0.1	0.10	2.6	<0.1	<0.05	3	<0.5	<0.2
80707	Soil	0.029	4	11	0.21	132	0.085	1	0.80	0.014	0.10	<0.1	0.02	2.0	<0.1	<0.05	3	<0.5	<0.2
80708	Soil	0.035	8	8	0.16	224	0.066	2	0.73	0.015	0.08	<0.1	0.06	1.5	<0.1	<0.05	3	<0.5	<0.2
80709	Soil	0.067	5	18	0.27	239	0.096	1	1.12	0.019	0.12	<0.1	0.03	2.5	<0.1	<0.05	4	<0.5	<0.2
80710	Soil	0.043	8	12	0.22	276	0.080	2	0.80	0.018	0.12	<0.1	0.05	2.3	<0.1	<0.05	3	<0.5	<0.2
80711	Soil	0.091	14	11	0.32	284	0.039	8	0.98	0.019	0.22	<0.1	0.08	2.5	<0.1	0.12	3	<0.5	<0.2
80712	Soil	0.067	15	15	0.28	214	0.062	2	1.35	0.014	0.22	<0.1	0.02	2.9	<0.1	0.05	4	<0.5	<0.2
80713	Soil	0.049	9	15	0.25	222	0.073	1	1.13	0.015	0.16	<0.1	0.03	2.8	<0.1	<0.05	4	<0.5	<0.2
80714	Soil	0.036	10	17	0.28	196	0.097	1	1.12	0.020	0.18	<0.1	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
80715	Soil	0.064	4	12	0.20	381	0.075	3	0.64	0.014	0.13	<0.1	0.07	2.2	<0.1	<0.05	2	<0.5	<0.2
80716	Soil	0.014	6	6	0.12	214	0.032	<1	0.66	0.016	0.10	<0.1	0.02	1.1	<0.1	<0.05	3	<0.5	<0.2
80717	Soil	0.033	7	7	0.15	230	0.022	<1	0.79	0.012	0.15	<0.1	0.02	1.3	<0.1	<0.05	3	<0.5	<0.2
80718	Soil	0.069	7	4	0.08	283	0.015	1	0.53	0.010	0.16	<0.1	0.04	0.9	<0.1	<0.05	2	<0.5	<0.2
80719	Soil	0.030	17	10	0.18	139	0.027	<1	0.98	0.013	0.12	<0.1	0.02	2.7	<0.1	<0.05	3	<0.5	<0.2
80720	Soil	0.028	12	4	0.08	136	0.007	<1	0.56	0.011	0.09	<0.1	0.02	1.3	<0.1	<0.05	2	<0.5	<0.2
80721	Soil	0.027	8	5	0.11	216	0.026	<1	0.60	0.012	0.16	<0.1	0.02	1.3	<0.1	<0.05	3	<0.5	<0.2
80722	Soil	0.021	8	8	0.14	116	0.046	<1	0.65	0.019	0.06	<0.1	0.01	1.6	<0.1	<0.05	3	<0.5	<0.2
80723	Soil	0.024	5	4	0.10	121	0.011	<1	0.67	0.009	0.09	<0.1	0.02	1.0	<0.1	<0.05	3	<0.5	<0.2
80724	Soil	0.045	5	10	0.18	102	0.062	<1	0.91	0.014	0.05	<0.1	<0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
80725	Soil	0.030	5	7	0.18	115	0.044	<1	0.83	0.012	0.10	<0.1	0.02	1.2	<0.1	<0.05	3	<0.5	<0.2
80726	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
80727	Soil	0.011	4	4	0.13	57	0.022	<1	0.52	0.012	0.09	<0.1	<0.01	0.7	<0.1	<0.05	2	<0.5	<0.2
80728	Soil	0.032	4	11	0.20	107	0.073	<1	0.87	0.014	0.07	<0.1	<0.01	1.7	<0.1	<0.05	3	<0.5	<0.2
80729	Soil	0.012	10	14	0.23	120	0.051	<1	1.11	0.024	0.02	<0.1	0.02	2.9	<0.1	<0.05	3	<0.5	<0.2
80730	Soil	0.029	8	13	0.28	107	0.068	<1	1.17	0.016	0.05	<0.1	0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
80731	Soil	0.039	5	19	0.24	108	0.063	<1	0.99	0.015	0.08	<0.1	0.01	2.2	<0.1	<0.05	4	<0.5	<0.2

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Project: 13
Report Date: October 25, 2010

CERTIFICATE OF ANALYSIS VAN10005284.1

Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
80732	Soil		0.4	8.9	6.4	49	<0.1	7.3	5.5	428	1.82	1.4	0.3	0.7	0.9	23	<0.1	0.2	<0.1	51	0.23
80750	Soil		0.7	12.9	6.5	63	<0.1	6.9	5.2	1095	1.51	1.6	0.4	4.1	0.8	31	0.2	0.2	<0.1	41	0.30
80751	Soil		0.6	12.5	6.2	67	<0.1	7.1	5.2	832	1.71	1.9	0.4	<0.5	0.7	32	0.1	0.3	<0.1	47	0.28
80752	Soil		0.8	23.5	8.5	69	<0.1	8.6	7.7	1215	2.08	3.7	0.5	2.4	0.7	71	0.3	0.4	<0.1	52	0.80
80753	Soil		0.6	18.8	6.8	64	<0.1	9.9	7.1	952	2.29	4.0	0.5	4.3	0.9	63	0.1	0.4	<0.1	63	0.49
80754	Soil		0.8	23.8	6.9	64	0.2	10.0	7.4	846	2.24	4.1	0.8	4.2	0.9	59	0.2	0.4	<0.1	57	0.58
80755	Soil		1.0	14.6	6.9	60	<0.1	9.5	6.2	964	2.00	3.5	0.4	5.3	0.9	71	0.2	0.3	<0.1	55	0.69
80756	Soil		0.6	15.7	8.1	80	<0.1	6.9	5.7	1532	1.88	3.6	0.4	2.0	0.8	55	0.3	0.3	0.1	51	0.69
80757	Soil		0.7	14.5	8.2	140	<0.1	8.0	4.1	1884	1.34	2.9	0.3	4.5	0.6	52	0.3	0.2	0.1	33	0.62
80758	Soil		0.6	13.4	6.7	46	<0.1	7.2	6.0	610	2.22	2.9	0.6	6.6	1.3	60	0.2	0.7	<0.1	61	0.39
80759	Soil		0.6	8.0	5.9	60	<0.1	4.8	3.6	784	1.61	1.6	0.3	2.4	0.8	35	0.1	0.4	<0.1	45	0.26
80760	Soil		0.4	8.4	5.1	60	<0.1	6.0	3.7	564	1.66	2.0	0.4	0.6	0.8	32	0.1	0.3	<0.1	47	0.24
80761	Soil		0.5	9.5	4.9	45	<0.1	6.6	4.1	406	1.69	2.5	0.6	1.4	0.8	40	<0.1	0.4	<0.1	47	0.29
80762	Soil		0.6	6.9	4.7	56	<0.1	6.5	4.6	480	1.78	1.8	0.3	3.4	0.8	31	<0.1	0.3	<0.1	51	0.24
80763	Soil		0.9	27.5	9.5	141	0.3	7.8	7.2	2378	1.88	4.8	0.5	2.7	0.8	114	0.4	0.4	0.1	45	1.00
80764	Soil		0.7	16.6	6.0	87	<0.1	11.0	6.4	1079	2.07	2.3	0.4	2.0	0.8	49	0.3	0.3	<0.1	56	0.47
80765	Soil		0.6	12.6	6.0	48	<0.1	7.6	6.2	761	2.25	2.9	0.4	3.3	1.1	49	0.1	0.4	<0.1	65	0.39
80766	Soil		0.6	17.8	8.4	101	<0.1	6.9	5.9	1522	1.77	4.8	0.4	2.4	0.5	116	0.5	0.4	<0.1	46	1.29
80767	Soil		0.7	20.8	7.1	63	<0.1	11.2	8.0	833	2.47	4.2	0.5	2.3	1.0	56	0.2	0.4	<0.1	66	0.50
80768	Soil		0.7	32.0	7.2	77	0.1	13.9	8.8	948	2.39	3.6	1.2	1.5	0.9	79	0.3	0.4	<0.1	61	0.89
80769	Soil		0.8	17.6	9.6	76	<0.1	7.4	7.1	1558	1.88	3.4	0.4	<0.5	0.3	48	0.5	0.3	0.2	41	0.70
80770	Soil		0.9	13.5	6.9	85	<0.1	8.6	6.1	1283	1.99	2.1	0.4	5.2	0.7	52	0.3	0.2	<0.1	57	0.49
80771	Soil		1.6	9.2	6.2	61	<0.1	6.9	5.3	905	1.74	1.7	0.3	19.5	0.6	37	0.1	0.3	<0.1	50	0.33
80772	Soil		0.8	42.0	7.4	100	0.2	19.4	8.3	1117	2.27	3.2	0.9	2.2	0.7	84	0.8	0.3	0.1	58	1.09
80773	Soil		0.6	33.1	7.1	75	0.2	16.5	8.3	1178	2.10	2.9	0.8	2.6	0.7	106	0.5	0.3	<0.1	54	1.08
80774	Soil		0.7	20.7	8.9	71	0.1	9.0	6.7	922	2.09	3.4	0.7	2.5	1.0	61	0.2	0.4	<0.1	56	0.61
80775	Soil		0.6	14.5	6.4	55	<0.1	9.4	5.9	875	2.23	3.8	0.5	26.7	1.0	60	0.2	0.5	<0.1	65	0.59
80777	Soil		0.6	10.9	5.6	54	<0.1	6.5	5.2	694	2.06	3.5	0.4	4.6	1.0	40	<0.1	0.5	<0.1	59	0.31
80778	Soil		0.4	9.8	5.7	56	<0.1	7.6	4.8	349	1.98	3.6	0.4	1.6	1.1	31	<0.1	0.4	<0.1	57	0.21
80779	Soil		0.6	14.5	5.5	82	<0.1	8.9	6.3	911	1.93	1.8	0.5	2.1	0.8	45	0.1	0.2	<0.1	53	0.47

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Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
80732	Soil	0.038	4	14	0.27	127	0.106	<1	1.25	0.015	0.07	<0.1	0.01	2.1	<0.1	<0.05	5	<0.5	<0.2
80750	Soil	0.034	12	12	0.22	154	0.070	<1	1.04	0.023	0.08	<0.1	0.03	2.5	<0.1	<0.05	4	<0.5	<0.2
80751	Soil	0.049	7	13	0.22	176	0.082	<1	0.95	0.013	0.09	<0.1	0.02	2.4	<0.1	<0.05	3	<0.5	<0.2
80752	Soil	0.045	10	17	0.33	218	0.074	4	1.12	0.016	0.22	<0.1	0.04	3.1	<0.1	<0.05	4	<0.5	<0.2
80753	Soil	0.039	9	19	0.30	223	0.105	1	1.14	0.028	0.19	<0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
80754	Soil	0.048	14	20	0.31	178	0.090	1	1.41	0.021	0.15	0.1	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
80755	Soil	0.062	7	17	0.27	256	0.089	2	1.12	0.018	0.16	<0.1	0.04	2.4	<0.1	<0.05	3	<0.5	<0.2
80756	Soil	0.056	9	16	0.22	281	0.066	2	1.16	0.023	0.12	<0.1	0.04	2.2	<0.1	<0.05	4	<0.5	<0.2
80757	Soil	0.120	5	12	0.17	418	0.071	2	1.12	0.022	0.10	<0.1	0.07	1.4	<0.1	<0.05	4	<0.5	<0.2
80758	Soil	0.032	9	17	0.26	179	0.105	2	0.85	0.022	0.17	<0.1	0.02	3.2	<0.1	<0.05	3	<0.5	<0.2
80759	Soil	0.026	5	12	0.16	186	0.087	<1	0.78	0.019	0.09	<0.1	0.02	1.5	<0.1	<0.05	3	<0.5	<0.2
80760	Soil	0.020	6	14	0.21	146	0.101	1	0.88	0.024	0.07	<0.1	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2
80761	Soil	0.023	9	15	0.22	123	0.096	<1	0.91	0.021	0.09	<0.1	0.02	2.4	<0.1	<0.05	3	<0.5	<0.2
80762	Soil	0.051	5	15	0.18	173	0.096	<1	1.03	0.027	0.07	<0.1	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
80763	Soil	0.160	10	14	0.19	536	0.051	2	1.36	0.027	0.12	<0.1	0.07	2.5	<0.1	<0.05	5	<0.5	0.4
80764	Soil	0.061	6	20	0.32	273	0.110	2	1.28	0.028	0.12	<0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
80765	Soil	0.020	7	18	0.26	210	0.124	<1	1.11	0.022	0.14	<0.1	0.02	2.9	<0.1	<0.05	4	<0.5	<0.2
80766	Soil	0.083	10	16	0.29	395	0.072	6	1.07	0.020	0.31	<0.1	0.09	2.1	<0.1	<0.05	4	<0.5	<0.2
80767	Soil	0.039	10	22	0.37	192	0.118	2	1.40	0.021	0.20	<0.1	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
80768	Soil	0.046	20	23	0.37	193	0.099	2	1.77	0.024	0.18	<0.1	0.04	4.6	<0.1	<0.05	5	<0.5	<0.2
80769	Soil	0.074	10	15	0.24	270	0.046	1	1.18	0.019	0.15	<0.1	0.06	2.0	<0.1	<0.05	4	<0.5	<0.2
80770	Soil	0.053	7	19	0.29	232	0.113	2	1.12	0.023	0.12	<0.1	0.04	2.4	<0.1	<0.05	4	<0.5	<0.2
80771	Soil	0.037	4	16	0.22	128	0.105	1	0.83	0.019	0.12	<0.1	0.02	1.9	<0.1	<0.05	4	<0.5	<0.2
80772	Soil	0.058	26	23	0.40	195	0.085	3	1.84	0.032	0.12	<0.1	0.03	4.0	<0.1	<0.05	6	<0.5	<0.2
80773	Soil	0.053	31	22	0.41	194	0.077	2	1.67	0.023	0.19	<0.1	0.03	4.3	<0.1	<0.05	5	0.6	<0.2
80774	Soil	0.044	19	18	0.30	190	0.094	2	1.33	0.023	0.13	<0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
80775	Soil	0.033	7	19	0.29	214	0.114	2	1.06	0.019	0.14	<0.1	0.04	3.1	<0.1	<0.05	4	<0.5	<0.2
80777	Soil	0.065	6	16	0.20	164	0.086	2	1.01	0.020	0.10	<0.1	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
80778	Soil	0.065	5	15	0.20	167	0.083	<1	1.28	0.020	0.10	<0.1	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
80779	Soil	0.029	11	18	0.29	157	0.113	2	1.22	0.021	0.13	<0.1	0.04	2.8	<0.1	<0.05	4	<0.5	<0.2

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	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
80780	Soil		0.8	21.5	7.5	58	<0.1	11.3	8.2	788	2.20	2.5	1.1	1.3	1.0	62	0.1	0.3	<0.1	61	0.69
80781	Soil		0.6	17.4	5.7	69	<0.1	10.1	7.5	805	2.22	2.5	0.6	0.9	0.9	42	0.1	0.2	<0.1	64	0.33
80782	Soil		0.8	19.3	7.4	54	<0.1	12.4	8.6	730	2.63	3.5	0.5	2.7	1.5	47	0.1	0.4	0.1	71	0.44
80783	Soil		0.8	17.4	7.5	84	<0.1	7.0	5.9	826	1.67	3.2	0.5	1.0	0.6	66	0.4	0.3	0.1	43	0.72
80784	Soil		0.6	27.6	9.9	58	<0.1	11.1	7.4	1293	2.03	3.7	2.0	1.4	1.3	70	0.3	0.4	0.1	47	0.76
80785	Soil		1.0	22.2	8.3	67	<0.1	8.4	7.9	1574	2.36	4.7	1.6	1.0	1.2	55	0.3	0.4	0.1	56	0.53
80786	Soil		0.9	9.7	5.8	39	<0.1	5.9	5.3	744	1.71	2.0	0.4	<0.5	0.7	33	<0.1	0.3	<0.1	47	0.29
80787	Soil		0.8	22.2	6.9	54	<0.1	9.1	6.8	870	2.04	2.7	0.9	5.7	1.1	50	0.3	0.4	0.1	55	0.43
80788	Soil		0.8	15.6	7.0	63	<0.1	7.0	6.1	1058	1.78	3.3	0.5	<0.5	0.7	50	0.2	0.4	<0.1	47	0.58
80789	Soil		0.6	18.1	8.3	61	<0.1	8.2	6.7	877	1.98	3.8	0.8	0.6	0.7	53	0.3	0.4	<0.1	50	0.58
80791	Soil		0.7	27.1	8.7	56	0.2	10.0	6.0	1141	1.87	4.1	2.1	1.1	0.7	61	0.5	0.5	<0.1	45	0.63
80792	Soil		0.6	13.5	6.1	42	<0.1	6.2	4.9	348	2.17	5.0	0.6	4.6	1.5	46	<0.1	0.7	<0.1	61	0.34
80793	Soil		0.8	28.4	8.8	80	0.4	9.5	6.8	1054	2.08	3.4	1.6	3.7	0.6	76	0.4	0.5	0.1	49	0.81
80794	Soil		1.1	25.4	9.6	106	0.1	8.8	7.7	1192	2.25	8.3	1.7	1.9	0.6	63	0.5	0.4	0.1	50	0.68
80799	Soil		0.8	10.9	6.0	51	<0.1	7.5	5.4	834	1.84	2.1	0.3	2.7	0.8	33	0.1	0.3	<0.1	52	0.32
80800	Soil		0.7	23.2	8.1	111	<0.1	10.0	7.8	799	2.03	3.6	0.6	0.9	0.6	68	0.5	0.3	0.1	53	0.93
80801	Soil		0.6	23.8	7.4	71	0.2	12.3	9.3	1149	2.26	2.8	0.6	2.3	1.1	73	0.3	0.3	<0.1	59	0.84
80802	Soil		0.7	27.8	7.5	85	0.2	10.8	8.6	1032	2.24	4.7	0.9	1.0	0.6	67	0.4	0.3	<0.1	56	0.78
80803	Soil		0.7	21.2	7.5	81	0.1	8.3	7.6	902	2.26	4.9	0.6	0.8	0.7	56	0.3	0.4	<0.1	57	0.62
80804	Soil		0.8	20.6	7.6	75	0.1	8.1	7.1	829	2.11	4.5	0.5	5.0	0.6	58	0.4	0.4	<0.1	58	0.63
80805	Soil		I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
80806	Soil		0.4	21.2	7.5	85	0.2	8.5	6.1	913	1.88	4.3	0.6	1.5	0.4	62	0.4	0.3	0.1	45	0.77
80807	Soil		0.5	20.3	7.6	63	0.1	10.4	7.2	795	2.21	4.4	0.7	1.4	1.1	37	0.3	0.4	0.1	56	0.43
80808	Soil		0.5	14.2	7.1	77	0.1	9.3	7.0	774	2.27	4.8	0.4	0.8	1.2	28	0.1	0.3	<0.1	59	0.26
80809	Soil		0.6	9.8	5.9	29	<0.1	5.0	4.8	295	1.91	2.0	0.4	<0.5	0.9	37	<0.1	0.3	<0.1	58	0.33
80810	Soil		0.5	9.7	5.1	75	<0.1	9.2	5.7	579	1.76	2.0	0.3	2.2	0.9	26	0.1	0.2	<0.1	47	0.28
80811	Soil		0.5	23.9	5.7	45	<0.1	8.5	5.9	676	2.09	5.0	1.9	2.1	1.4	49	0.1	0.5	<0.1	54	0.43
80812	Soil		0.9	7.9	6.6	104	<0.1	4.5	3.6	1094	1.30	1.9	0.3	0.5	0.6	37	0.6	0.2	<0.1	38	0.32
80813	Soil		0.7	26.4	8.3	78	0.2	10.0	8.5	1083	2.39	4.2	0.9	2.4	0.9	69	0.3	0.4	0.1	61	0.63
80814	Soil		0.8	25.9	8.0	86	<0.1	10.4	9.5	1225	2.67	5.1	0.6	30.4	0.9	59	0.4	0.4	<0.1	70	0.52

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Project: 13
Report Date: October 25, 2010

CERTIFICATE OF ANALYSIS VAN10005284.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
80780	Soil	0.028	16	21	0.37	149	0.100	1	1.41	0.025	0.10	<0.1	0.04	3.4	<0.1	<0.05	5	<0.5	<0.2
80781	Soil	0.040	11	21	0.33	159	0.122	2	1.25	0.021	0.09	<0.1	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
80782	Soil	0.031	17	24	0.43	169	0.124	1	1.61	0.019	0.18	<0.1	0.04	3.6	<0.1	<0.05	5	<0.5	<0.2
80783	Soil	0.054	7	12	0.21	198	0.062	3	0.97	0.015	0.19	<0.1	0.05	2.0	<0.1	0.06	3	<0.5	<0.2
80784	Soil	0.034	29	15	0.29	239	0.056	2	1.66	0.016	0.17	0.1	0.03	4.3	<0.1	<0.05	5	<0.5	<0.2
80785	Soil	0.059	20	15	0.26	246	0.064	2	1.29	0.016	0.17	0.1	0.03	3.7	<0.1	<0.05	4	<0.5	<0.2
80786	Soil	0.021	7	12	0.21	167	0.076	1	0.82	0.019	0.08	<0.1	0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
80787	Soil	0.033	19	15	0.29	172	0.076	2	1.16	0.023	0.19	<0.1	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
80788	Soil	0.053	9	13	0.24	221	0.066	3	0.97	0.012	0.16	0.1	0.03	2.1	<0.1	<0.05	3	<0.5	<0.2
80789	Soil	0.050	13	15	0.29	171	0.061	2	1.13	0.016	0.17	<0.1	0.03	2.5	<0.1	<0.05	4	<0.5	<0.2
80791	Soil	0.046	30	12	0.25	208	0.042	1	1.45	0.018	0.12	<0.1	0.04	3.4	<0.1	<0.05	4	<0.5	<0.2
80792	Soil	0.051	8	13	0.26	114	0.091	2	0.89	0.028	0.10	0.1	0.02	3.7	<0.1	<0.05	3	<0.5	<0.2
80793	Soil	0.075	22	14	0.30	200	0.039	2	1.77	0.019	0.14	0.1	0.05	3.5	<0.1	<0.05	5	<0.5	<0.2
80794	Soil	0.091	18	15	0.30	204	0.049	2	1.51	0.015	0.22	<0.1	0.03	3.0	<0.1	<0.05	5	<0.5	<0.2
80799	Soil	0.029	5	15	0.25	156	0.088	2	0.97	0.014	0.10	<0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
80800	Soil	0.071	11	17	0.36	177	0.072	5	1.25	0.018	0.18	0.1	0.04	3.0	<0.1	0.07	4	<0.5	<0.2
80801	Soil	0.034	21	20	0.37	203	0.079	3	1.31	0.019	0.13	<0.1	0.04	3.9	<0.1	<0.05	4	<0.5	<0.2
80802	Soil	0.083	19	18	0.38	191	0.061	3	1.37	0.020	0.26	<0.1	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
80803	Soil	0.076	12	15	0.32	207	0.065	3	1.27	0.017	0.25	<0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
80804	Soil	0.059	9	16	0.29	182	0.074	3	1.11	0.018	0.19	<0.1	0.03	2.8	<0.1	<0.05	4	<0.5	<0.2
80805	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
80806	Soil	0.070	15	13	0.25	211	0.041	2	1.21	0.015	0.12	<0.1	0.05	2.4	<0.1	<0.05	4	<0.5	<0.2
80807	Soil	0.073	13	18	0.30	163	0.084	3	1.32	0.018	0.19	<0.1	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
80808	Soil	0.104	6	16	0.28	202	0.086	2	1.42	0.019	0.08	<0.1	0.02	2.6	<0.1	<0.05	5	<0.5	<0.2
80809	Soil	0.023	5	12	0.16	150	0.085	2	0.66	0.016	0.09	<0.1	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2
80810	Soil	0.056	4	14	0.25	138	0.087	1	1.24	0.019	0.10	<0.1	0.01	2.0	<0.1	<0.05	5	<0.5	<0.2
80811	Soil	0.026	23	15	0.31	163	0.066	2	1.40	0.024	0.11	<0.1	0.04	5.9	<0.1	<0.05	4	<0.5	<0.2
80812	Soil	0.034	5	10	0.14	172	0.064	2	0.69	0.017	0.07	<0.1	0.03	1.6	<0.1	<0.05	3	<0.5	<0.2
80813	Soil	0.066	24	19	0.40	170	0.078	3	1.45	0.014	0.26	<0.1	0.03	5.0	<0.1	<0.05	5	<0.5	<0.2
80814	Soil	0.079	12	19	0.41	223	0.084	2	1.49	0.013	0.25	<0.1	0.02	4.4	<0.1	<0.05	5	<0.5	<0.2

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CERTIFICATE OF ANALYSIS VAN10005284.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
80815	Soil		0.7	23.3	8.5	103	0.2	10.0	8.8	1520	2.39	5.9	0.6	1.9	0.9	65	0.6	0.5	0.1	63	0.66
80816	Soil		0.9	25.4	8.3	68	0.3	9.6	8.0	1384	2.15	4.3	0.9	5.2	0.7	64	0.4	0.4	0.1	55	0.71
80817	Soil		1.0	17.5	7.0	90	0.1	7.4	5.6	1207	1.73	3.6	0.4	1.5	0.6	63	0.4	0.3	<0.1	44	0.79
80818	Soil		0.6	22.4	6.1	76	0.1	12.6	9.3	1055	2.57	3.9	0.5	5.1	1.1	57	0.3	0.3	<0.1	69	0.66
80819	Soil		0.5	13.4	6.9	46	<0.1	7.0	6.6	672	2.24	3.6	0.6	1.2	1.2	43	0.1	0.4	<0.1	62	0.35
80820	Soil		0.5	12.6	5.5	92	<0.1	6.1	5.1	1455	1.71	2.0	0.3	<0.5	0.9	43	0.6	0.3	<0.1	47	0.55
80821	Soil		0.6	16.1	6.8	73	0.1	7.2	6.0	374	2.17	7.0	1.0	1.9	0.9	37	0.2	0.4	<0.1	56	0.27
80822	Soil		0.5	20.4	6.0	57	<0.1	8.5	5.8	758	2.02	4.4	1.0	1.5	1.0	53	0.2	0.5	<0.1	52	0.44
80823	Soil		0.7	27.2	7.2	94	0.1	12.7	9.4	956	2.45	3.9	1.1	0.9	0.7	54	0.4	0.3	<0.1	62	0.68
80825	Soil		0.7	20.6	7.6	83	0.1	7.8	6.3	979	1.71	3.2	0.7	1.5	0.3	58	0.5	0.3	<0.1	46	0.71
80827	Soil		0.7	18.4	8.6	76	0.2	8.0	7.1	1193	1.83	3.3	0.7	1.6	0.6	52	0.3	0.3	<0.1	48	0.53
80828	Soil		0.6	12.3	6.6	55	<0.1	8.6	5.9	921	1.87	2.5	0.4	3.0	0.9	37	0.2	0.3	<0.1	53	0.35
80829	Soil		0.5	16.5	7.7	144	0.1	6.3	5.4	2353	1.56	3.0	0.4	1.0	0.6	43	0.3	0.3	0.1	38	0.58
80830	Soil		0.5	12.2	6.0	74	<0.1	7.6	4.9	917	1.74	2.7	0.4	1.3	0.9	31	0.2	0.3	<0.1	49	0.30
80831	Soil		0.5	14.6	7.0	50	<0.1	7.7	6.2	575	2.13	4.5	0.5	0.8	1.3	42	<0.1	0.5	<0.1	62	0.37
80832	Soil		0.5	9.4	5.2	52	<0.1	6.0	4.6	547	1.74	2.4	0.4	<0.5	1.0	27	<0.1	0.3	<0.1	51	0.24
80833	Soil		0.4	5.0	4.7	54	<0.1	5.3	3.5	540	1.30	1.3	0.2	1.5	0.8	18	<0.1	0.2	<0.1	39	0.17
80834	Soil		0.6	7.0	5.7	66	<0.1	5.0	3.7	899	1.36	1.8	0.3	0.9	0.8	22	<0.1	0.3	<0.1	41	0.19
80835	Soil		0.7	13.3	6.5	53	<0.1	5.8	5.4	609	1.68	2.9	0.8	0.8	1.0	39	0.2	0.3	<0.1	51	0.28
80836	Soil		0.4	8.5	10.2	42	<0.1	3.4	5.6	821	1.64	5.8	0.4	2.0	1.4	52	0.1	0.5	0.1	31	0.67
80837	Soil		0.6	7.0	4.6	46	<0.1	3.8	3.3	584	1.31	1.7	0.3	1.3	0.8	20	<0.1	0.2	<0.1	41	0.14
80838	Soil		0.5	7.2	4.8	53	<0.1	4.3	3.3	609	1.30	1.5	0.2	<0.5	0.7	24	0.1	0.2	<0.1	39	0.19
80839	Soil		0.6	8.4	5.1	47	<0.1	5.1	3.8	381	1.57	2.5	0.4	<0.5	0.8	29	<0.1	0.3	<0.1	48	0.21
80840	Soil		0.8	14.5	6.9	45	<0.1	9.9	7.2	843	2.08	2.4	0.5	1.3	0.8	45	0.2	0.3	<0.1	61	0.42
80841	Soil		0.8	10.0	7.6	41	<0.1	7.6	5.5	780	1.78	3.0	0.4	9.0	0.9	39	0.2	0.4	<0.1	52	0.39
80842	Soil		0.6	12.4	5.0	37	<0.1	6.3	5.2	434	1.96	3.2	0.6	1.5	1.1	42	<0.1	0.4	<0.1	62	0.33
80843	Soil		0.6	22.0	6.6	46	<0.1	12.6	7.6	401	2.33	4.4	0.7	3.9	1.5	48	<0.1	0.4	<0.1	67	0.44
80844	Soil		0.7	7.7	6.3	47	<0.1	5.3	4.1	753	1.46	1.7	0.3	5.7	0.7	28	0.1	0.2	<0.1	42	0.25
80845	Soil		0.6	12.4	5.7	46	<0.1	7.4	4.4	944	1.48	1.6	0.6	2.1	0.7	35	<0.1	0.2	<0.1	41	0.28
80846	Soil		1.3	13.1	6.7	44	<0.1	9.1	6.1	499	1.85	2.4	0.5	3.9	0.6	34	<0.1	0.3	<0.1	53	0.27

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Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
80815	Soil	0.069	13	16	0.34	199	0.069	3	1.27	0.014	0.22	0.1	0.03	3.9	<0.1	<0.05	4	<0.5	0.3
80816	Soil	0.062	23	16	0.33	249	0.065	2	1.42	0.013	0.18	<0.1	0.05	4.3	<0.1	0.05	4	<0.5	<0.2
80817	Soil	0.085	7	12	0.25	302	0.074	6	0.92	0.016	0.23	<0.1	0.04	2.3	<0.1	<0.05	3	<0.5	<0.2
80818	Soil	0.083	9	22	0.43	219	0.102	3	1.43	0.014	0.26	<0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
80819	Soil	0.021	8	15	0.25	182	0.091	1	1.11	0.014	0.13	0.1	0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
80820	Soil	0.025	5	12	0.18	267	0.078	2	0.78	0.014	0.11	<0.1	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2
80821	Soil	0.100	10	14	0.24	187	0.053	2	1.49	0.016	0.09	<0.1	0.03	2.6	<0.1	<0.05	5	<0.5	<0.2
80822	Soil	0.051	23	13	0.29	222	0.052	1	1.37	0.022	0.10	<0.1	0.04	4.1	<0.1	<0.05	4	<0.5	<0.2
80823	Soil	0.076	15	21	0.40	177	0.076	3	1.57	0.018	0.22	<0.1	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
80825	Soil	0.068	14	13	0.27	170	0.055	2	1.09	0.013	0.14	<0.1	0.04	2.4	<0.1	0.05	3	<0.5	<0.2
80827	Soil	0.043	11	14	0.28	153	0.068	1	1.16	0.014	0.12	<0.1	0.04	2.7	<0.1	<0.05	4	<0.5	<0.2
80828	Soil	0.029	5	14	0.27	166	0.087	<1	1.07	0.014	0.11	<0.1	0.02	2.1	<0.1	<0.05	3	<0.5	<0.2
80829	Soil	0.106	6	10	0.16	357	0.037	1	1.13	0.014	0.09	<0.1	0.04	2.1	<0.1	<0.05	4	0.5	<0.2
80830	Soil	0.083	5	13	0.22	226	0.075	1	1.05	0.014	0.10	<0.1	0.02	2.2	<0.1	<0.05	3	<0.5	<0.2
80831	Soil	0.032	6	15	0.27	164	0.084	1	1.01	0.016	0.09	<0.1	0.02	2.6	<0.1	<0.05	3	<0.5	<0.2
80832	Soil	0.041	6	13	0.21	145	0.098	1	0.83	0.014	0.10	<0.1	<0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
80833	Soil	0.029	3	10	0.15	105	0.080	<1	0.80	0.013	0.07	<0.1	<0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
80834	Soil	0.026	4	10	0.16	119	0.077	<1	0.69	0.014	0.07	<0.1	0.02	1.5	<0.1	<0.05	2	<0.5	<0.2
80835	Soil	0.024	9	13	0.22	126	0.088	1	0.77	0.016	0.09	<0.1	0.02	2.5	<0.1	<0.05	2	<0.5	0.2
80836	Soil	0.043	14	6	0.11	186	0.017	2	0.71	0.012	0.18	<0.1	0.07	2.4	<0.1	<0.05	2	<0.5	<0.2
80837	Soil	0.019	5	10	0.14	106	0.080	<1	0.72	0.014	0.06	<0.1	<0.01	1.6	<0.1	<0.05	2	<0.5	<0.2
80838	Soil	0.024	3	9	0.13	135	0.081	1	0.67	0.013	0.07	<0.1	0.01	1.3	<0.1	<0.05	3	<0.5	<0.2
80839	Soil	0.018	6	11	0.18	112	0.086	<1	0.73	0.015	0.07	<0.1	<0.01	1.8	<0.1	<0.05	3	<0.5	<0.2
80840	Soil	0.023	7	18	0.35	133	0.097	<1	1.18	0.015	0.11	<0.1	0.03	2.6	<0.1	<0.05	4	<0.5	<0.2
80841	Soil	0.038	6	14	0.26	138	0.088	1	0.95	0.014	0.13	<0.1	0.04	1.9	<0.1	<0.05	3	<0.5	<0.2
80842	Soil	0.027	9	15	0.28	91	0.097	1	0.88	0.014	0.10	<0.1	0.03	2.8	<0.1	<0.05	3	<0.5	<0.2
80843	Soil	0.059	9	22	0.47	115	0.113	1	1.32	0.017	0.13	<0.1	0.02	3.8	<0.1	<0.05	4	<0.5	<0.2
80844	Soil	0.022	6	12	0.18	134	0.083	<1	0.81	0.014	0.11	<0.1	0.02	1.7	<0.1	<0.05	3	<0.5	<0.2
80845	Soil	0.022	16	12	0.23	138	0.069	<1	1.09	0.018	0.06	<0.1	0.02	2.5	<0.1	<0.05	3	<0.5	<0.2
80846	Soil	0.024	8	15	0.28	114	0.075	<1	1.10	0.015	0.08	<0.1	0.03	2.2	<0.1	<0.05	3	<0.5	<0.2

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Project: 13
Report Date: October 25, 2010

CERTIFICATE OF ANALYSIS VAN10005284.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
80847	Soil		0.9	14.2	7.0	80	0.1	10.0	5.9	904	1.84	2.3	0.4	5.8	0.8	33	0.2	0.2	<0.1	51	0.31
80848	Soil		0.9	12.8	7.7	60	<0.1	7.7	5.7	926	1.80	3.1	0.5	4.0	0.5	49	<0.1	0.3	<0.1	50	0.47
80849	Soil		1.0	18.9	10.0	115	<0.1	7.8	6.2	1885	1.55	2.3	0.4	1.8	0.4	49	0.3	0.2	<0.1	35	0.82
80850	Soil		0.9	19.7	9.6	87	<0.1	9.3	8.0	1700	2.25	4.2	0.5	0.7	0.9	63	0.5	0.5	<0.1	62	0.55
80851	Soil		1.1	23.7	8.3	107	0.1	9.3	7.7	2092	1.95	2.7	0.7	1.4	0.7	65	0.4	0.3	<0.1	55	0.50
80852	Soil		0.7	27.9	7.8	90	0.1	12.8	7.0	941	1.91	2.8	0.9	2.5	0.4	56	0.4	0.3	0.1	49	0.71
80853	Soil		0.9	19.7	7.0	94	0.1	5.2	3.1	729	0.75	2.9	0.3	2.9	0.1	155	0.3	0.2	<0.1	18	2.10
80854	Soil		0.8	20.0	8.8	54	<0.1	11.0	7.9	758	2.12	2.7	0.6	1.2	1.1	51	0.2	0.3	0.1	60	0.46
80855	Soil		1.0	14.9	7.8	55	<0.1	8.6	7.3	1249	2.10	2.4	0.5	1.4	1.2	51	0.2	0.3	<0.1	59	0.42
80856	Soil		0.7	14.8	7.5	55	<0.1	8.6	6.4	912	2.03	3.8	0.5	1.6	1.1	47	0.2	0.3	<0.1	58	0.48
80857	Soil		0.6	14.7	8.0	66	<0.1	8.1	6.7	1115	2.00	4.0	0.5	0.6	0.7	36	0.2	0.3	<0.1	54	0.39
80858	Soil		0.9	28.8	8.7	64	0.1	10.1	7.4	542	1.87	4.4	0.4	0.9	0.5	59	0.3	0.2	<0.1	50	0.61
80859	Soil		0.5	9.8	8.8	47	0.6	5.3	6.0	440	2.03	6.3	0.9	0.6	2.0	424	<0.1	0.6	0.1	54	0.54
80860	Soil		0.5	9.8	7.3	57	<0.1	4.8	5.5	383	2.01	4.7	0.5	0.9	1.1	32	<0.1	0.5	<0.1	59	0.22
80861	Soil		0.6	11.8	6.6	80	0.2	7.5	5.8	651	2.14	5.1	0.4	1.2	1.4	42	0.1	0.5	<0.1	62	0.27
80862	Soil		0.5	8.1	6.8	82	<0.1	6.1	4.7	932	1.93	3.8	0.3	2.5	1.0	28	0.1	0.4	<0.1	54	0.30
80863	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
80864	Soil		1.7	12.3	12.4	127	1.3	5.9	6.7	2861	1.90	9.1	0.5	125.2	0.6	44	0.5	0.3	0.1	40	0.53
80865	Soil		0.6	12.1	6.5	59	0.5	7.3	5.6	683	2.19	4.4	0.4	10.3	1.3	38	0.1	0.4	<0.1	60	0.30
80866	Soil		0.9	10.9	10.1	74	0.1	6.6	5.1	1400	1.87	3.6	0.3	3.1	0.8	42	0.3	0.3	0.1	50	0.47
80867	Soil		0.9	11.1	7.4	85	0.3	7.0	5.9	1018	2.20	5.8	0.5	9.5	1.0	37	0.2	0.4	0.1	59	0.34
80868	Soil		1.0	10.0	7.8	86	0.3	6.6	5.7	1670	1.83	4.9	0.4	97.4	0.8	42	0.2	0.3	0.1	45	0.42
80869	Soil		0.5	14.2	6.5	57	0.2	8.0	7.2	699	2.39	6.4	0.5	<0.5	0.9	45	<0.1	0.5	<0.1	66	0.35
80870	Soil		0.6	12.4	7.2	60	<0.1	7.5	6.2	1122	2.09	4.7	0.4	1.2	0.7	43	0.1	0.4	<0.1	55	0.34
80871	Soil		0.5	20.5	5.8	55	0.5	9.0	7.3	609	2.61	8.0	0.5	6.9	1.5	65	<0.1	0.5	<0.1	73	0.43
80872	Soil		0.4	10.1	5.2	47	<0.1	6.3	5.1	362	2.13	4.1	0.4	<0.5	0.9	39	<0.1	0.5	<0.1	61	0.26
80873	Soil		0.8	18.2	6.6	47	0.8	8.6	6.6	679	2.21	7.0	0.9	40.6	1.1	52	<0.1	0.5	<0.1	57	0.43
80874	Soil		0.7	20.1	7.2	47	0.6	8.9	6.5	782	2.08	6.7	0.9	41.9	0.9	47	<0.1	0.4	<0.1	54	0.41
80876	Soil		0.5	13.6	5.5	42	0.3	7.3	5.4	446	2.13	4.3	0.5	12.9	1.1	39	<0.1	0.5	<0.1	56	0.27
80877	Soil		0.5	10.8	5.2	41	0.2	6.4	5.1	493	1.94	3.2	0.5	14.2	1.0	35	<0.1	0.4	<0.1	53	0.24

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CERTIFICATE OF ANALYSIS VAN10005284.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
80847	Soil	0.029	10	16	0.30	179	0.093	1	1.20	0.015	0.08	<0.1	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
80848	Soil	0.039	8	13	0.26	187	0.082	2	1.01	0.013	0.11	<0.1	0.04	2.1	<0.1	<0.05	3	<0.5	<0.2
80849	Soil	0.046	8	11	0.18	426	0.045	3	0.92	0.015	0.14	<0.1	0.06	1.6	<0.1	0.05	3	<0.5	<0.2
80850	Soil	0.055	9	15	0.31	224	0.093	2	1.29	0.014	0.14	<0.1	0.03	3.2	<0.1	<0.05	4	<0.5	<0.2
80851	Soil	0.060	21	15	0.25	280	0.080	1	1.23	0.017	0.13	<0.1	0.05	3.8	<0.1	<0.05	4	<0.5	<0.2
80852	Soil	0.066	17	17	0.32	140	0.063	2	1.59	0.018	0.11	<0.1	0.03	2.7	<0.1	0.05	5	<0.5	<0.2
80853	Soil	0.098	6	6	0.29	291	0.026	15	0.51	0.016	0.58	<0.1	0.13	1.0	<0.1	0.15	1	0.6	<0.2
80854	Soil	0.028	9	19	0.35	134	0.105	2	1.30	0.019	0.12	<0.1	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2
80855	Soil	0.023	7	16	0.27	225	0.114	2	1.08	0.013	0.14	<0.1	0.02	2.9	<0.1	<0.05	3	<0.5	<0.2
80856	Soil	0.033	8	16	0.27	206	0.103	2	1.14	0.015	0.21	<0.1	0.04	2.8	<0.1	<0.05	3	<0.5	<0.2
80857	Soil	0.094	7	14	0.25	238	0.060	1	1.42	0.015	0.12	<0.1	0.02	2.2	<0.1	<0.05	4	<0.5	<0.2
80858	Soil	0.037	6	13	0.27	174	0.069	1	1.30	0.014	0.08	<0.1	0.04	2.1	<0.1	<0.05	4	<0.5	<0.2
80859	Soil	0.053	9	17	0.23	458	0.069	<1	1.54	0.114	0.35	0.9	0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
80860	Soil	0.051	8	12	0.20	136	0.068	<1	1.01	0.011	0.09	<0.1	0.04	2.3	<0.1	<0.05	3	<0.5	<0.2
80861	Soil	0.082	5	18	0.26	203	0.081	1	1.26	0.019	0.11	0.6	0.02	2.3	<0.1	<0.05	4	<0.5	<0.2
80862	Soil	0.071	5	12	0.21	202	0.068	1	1.07	0.015	0.10	<0.1	0.03	2.1	<0.1	<0.05	4	<0.5	<0.2
80863	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
80864	Soil	0.141	10	8	0.15	259	0.034	<1	1.35	0.017	0.10	<0.1	0.06	1.5	0.2	<0.05	5	<0.5	<0.2
80865	Soil	0.065	6	15	0.24	171	0.071	<1	1.19	0.013	0.08	0.3	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
80866	Soil	0.065	5	11	0.21	254	0.062	1	0.98	0.014	0.10	<0.1	0.04	1.9	<0.1	<0.05	4	<0.5	<0.2
80867	Soil	0.102	7	14	0.22	211	0.063	<1	1.34	0.022	0.09	0.1	0.04	2.5	<0.1	<0.05	5	<0.5	<0.2
80868	Soil	0.100	7	10	0.19	285	0.050	<1	1.28	0.020	0.10	0.1	0.03	2.2	<0.1	<0.05	5	<0.5	<0.2
80869	Soil	0.070	6	18	0.29	200	0.083	<1	1.29	0.026	0.10	0.3	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
80870	Soil	0.064	6	12	0.23	241	0.073	1	1.19	0.019	0.10	<0.1	0.03	2.4	<0.1	<0.05	4	<0.5	<0.2
80871	Soil	0.056	9	21	0.38	217	0.102	2	1.46	0.028	0.13	1.0	0.02	4.5	<0.1	<0.05	5	<0.5	<0.2
80872	Soil	0.052	5	12	0.23	166	0.086	1	1.09	0.027	0.10	0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
80873	Soil	0.033	26	19	0.33	142	0.080	<1	1.25	0.026	0.08	0.4	0.04	4.1	<0.1	<0.05	4	<0.5	<0.2
80874	Soil	0.033	30	16	0.30	140	0.072	<1	1.34	0.023	0.07	0.1	0.04	3.6	<0.1	<0.05	4	<0.5	<0.2
80876	Soil	0.027	12	15	0.30	116	0.080	<1	1.11	0.019	0.08	0.2	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
80877	Soil	0.017	12	13	0.26	118	0.084	<1	1.05	0.022	0.09	0.2	0.04	2.7	<0.1	<0.05	4	<0.5	<0.2

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CERTIFICATE OF ANALYSIS VAN10005284.1

Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
80878	Soil		0.7	14.2	9.2	105	0.4	8.5	5.9	1425	1.95	6.1	0.6	122.4	0.8	51	0.4	0.3	0.1	46	0.44
80879	Soil		0.7	15.3	9.4	112	0.3	8.8	6.0	1732	1.95	5.6	0.6	109.8	0.7	60	0.4	0.3	0.1	47	0.56
80880	Soil		1.6	16.0	9.7	105	0.3	8.3	6.0	2044	1.78	6.8	0.5	41.2	0.5	70	0.6	0.3	0.1	44	0.74
80881	Soil		1.5	16.6	9.9	113	0.2	7.1	5.8	2025	1.65	6.2	0.4	3.1	0.4	75	0.6	0.3	0.1	41	0.78
80882	Soil		0.7	16.5	8.3	78	0.6	10.6	7.5	1233	2.40	5.7	0.7	9.3	1.0	44	0.2	0.5	<0.1	58	0.39
80883	Soil		1.0	16.0	9.2	96	0.4	9.2	7.4	1979	2.22	5.4	0.6	6.2	0.8	51	0.5	0.5	0.1	55	0.50
80884	Soil		0.6	17.7	6.3	60	0.4	11.4	6.7	634	2.48	4.3	0.6	12.2	1.5	49	0.1	0.5	<0.1	69	0.38
80885	Soil		0.6	12.7	5.8	64	0.3	9.7	6.0	806	2.24	2.5	0.6	10.1	1.3	39	0.2	0.4	<0.1	60	0.31
80886	Soil		0.7	22.3	7.7	58	1.3	13.6	8.2	619	2.67	4.4	0.8	31.5	1.7	48	0.1	0.4	<0.1	66	0.40
80887	Soil		0.7	17.4	7.4	61	0.9	11.3	6.9	921	2.35	3.5	0.8	17.2	1.4	46	0.2	0.4	<0.1	60	0.31
80888	Soil		0.9	20.8	7.3	60	0.9	12.6	8.8	941	2.82	4.9	0.7	17.3	1.5	42	0.1	0.5	<0.1	72	0.39
80889	Soil		0.7	13.7	6.7	60	0.3	9.7	6.8	1084	2.27	2.8	0.6	8.9	1.2	38	0.1	0.4	<0.1	61	0.31
80890	Soil		0.6	20.5	7.1	52	0.6	11.0	7.9	834	2.45	5.0	0.5	4.0	1.3	68	0.2	0.5	<0.1	63	0.55
80891	Soil		0.6	12.9	6.5	49	0.1	8.6	6.8	925	2.13	3.3	0.5	1.8	1.0	64	0.3	0.4	<0.1	61	0.52
80892	Soil		0.5	14.3	6.4	54	0.2	8.6	6.5	605	2.37	4.9	0.5	2.0	1.1	38	<0.1	0.4	<0.1	65	0.34
80893	Soil		0.6	13.4	7.3	61	0.1	7.4	6.2	838	2.09	3.9	0.5	2.5	0.7	41	0.1	0.4	<0.1	55	0.40
80894	Soil		0.6	17.8	6.6	78	0.2	12.2	8.4	886	2.46	4.3	0.5	0.6	1.2	43	0.1	0.3	<0.1	65	0.47
80895	Soil		0.6	14.6	10.6	75	<0.1	7.0	5.0	1266	1.42	3.5	0.4	0.9	0.5	79	0.3	0.2	0.1	35	1.12
80896	Soil		0.6	27.1	5.6	50	<0.1	18.0	10.2	399	3.09	7.8	0.5	<0.5	1.2	46	<0.1	0.5	<0.1	89	0.43
80897	Soil		0.6	23.0	6.1	57	<0.1	15.1	8.6	419	2.75	7.9	0.4	0.6	0.9	53	0.1	0.4	<0.1	77	0.52
80898	Soil		1.0	10.6	6.8	57	<0.1	7.5	5.5	1040	1.91	3.0	0.4	12.4	0.9	39	0.2	0.3	<0.1	52	0.41
80900	Soil		0.9	24.6	12.1	188	<0.1	6.7	5.5	4355	1.79	2.9	0.4	<0.5	0.7	82	1.0	0.3	0.2	33	1.02
80902	Soil		1.1	11.6	8.7	72	<0.1	6.2	4.6	2065	1.65	3.2	0.3	1.7	0.8	45	0.4	0.3	0.1	37	0.61
80903	Soil		1.3	47.4	15.4	163	0.2	5.4	8.3	3583	2.23	7.8	0.5	<0.5	0.4	104	1.3	1.3	0.3	35	1.88
80904	Soil		0.6	28.4	7.5	62	0.1	12.6	7.8	381	2.19	2.2	0.8	0.6	1.6	58	0.2	0.3	0.1	55	0.70
80905	Soil		2.6	13.4	10.1	62	<0.1	8.5	6.3	1049	1.98	3.9	0.4	<0.5	0.9	38	0.2	0.2	0.2	42	0.47
80906	Soil		0.5	41.4	9.4	22	0.2	14.3	4.8	119	1.80	2.5	0.5	1.4	1.2	100	0.4	0.3	0.1	31	1.71
80907	Soil		1.0	21.1	10.6	90	0.1	9.7	8.5	990	2.27	6.4	0.5	1.8	0.6	38	0.3	0.4	0.1	47	0.56
80908	Soil		1.7	21.5	11.5	82	0.1	7.5	8.2	1244	2.23	5.4	0.6	0.9	0.7	41	0.5	0.3	0.1	41	0.60
80909	Soil		1.3	18.5	9.6	77	0.1	6.6	7.4	976	1.84	6.4	0.7	3.8	0.6	42	0.3	0.4	0.1	38	0.60

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Project: 13
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CERTIFICATE OF ANALYSIS VAN10005284.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
80878	Soil	0.101	12	14	0.23	255	0.062	<1	1.62	0.013	0.13	0.1	0.03	2.3	0.1	<0.05	5	<0.5	<0.2
80879	Soil	0.102	12	13	0.24	269	0.065	2	1.49	0.015	0.16	<0.1	0.03	2.5	0.1	<0.05	5	<0.5	<0.2
80880	Soil	0.052	11	13	0.25	281	0.058	2	1.19	0.021	0.13	0.2	0.04	2.0	0.1	<0.05	4	<0.5	<0.2
80881	Soil	0.059	10	11	0.23	294	0.051	2	1.08	0.009	0.14	<0.1	0.05	1.8	0.1	<0.05	3	<0.5	<0.2
80882	Soil	0.065	12	20	0.32	202	0.085	1	1.70	0.012	0.18	0.3	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
80883	Soil	0.085	11	15	0.30	275	0.075	2	1.56	0.010	0.21	0.1	0.03	2.7	0.1	<0.05	5	<0.5	<0.2
80884	Soil	0.037	12	22	0.39	154	0.124	1	1.59	0.023	0.15	0.3	0.02	4.1	<0.1	<0.05	5	<0.5	<0.2
80885	Soil	0.031	9	18	0.31	161	0.124	1	1.34	0.043	0.12	0.1	0.02	3.3	<0.1	<0.05	4	<0.5	<0.2
80886	Soil	0.042	14	24	0.49	161	0.097	<1	2.09	0.019	0.12	0.2	0.05	4.6	<0.1	<0.05	6	<0.5	<0.2
80887	Soil	0.029	17	20	0.37	170	0.095	1	1.83	0.017	0.13	0.1	0.03	4.3	<0.1	<0.05	5	<0.5	<0.2
80888	Soil	0.053	16	26	0.47	151	0.101	1	1.78	0.019	0.14	0.7	0.02	4.4	<0.1	<0.05	6	<0.5	<0.2
80889	Soil	0.033	11	18	0.32	147	0.103	1	1.41	0.019	0.14	0.2	0.02	3.5	<0.1	<0.05	5	<0.5	<0.2
80890	Soil	0.034	13	21	0.40	188	0.076	2	1.53	0.017	0.14	0.3	0.03	4.6	<0.1	<0.05	5	<0.5	<0.2
80891	Soil	0.022	8	15	0.29	184	0.098	1	1.02	0.014	0.13	0.1	0.03	2.8	<0.1	<0.05	4	<0.5	<0.2
80892	Soil	0.047	8	18	0.31	152	0.087	1	1.41	0.038	0.09	0.2	<0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
80893	Soil	0.065	7	15	0.27	192	0.063	1	1.42	0.016	0.10	<0.1	0.03	2.5	<0.1	<0.05	5	<0.5	<0.2
80894	Soil	0.092	8	24	0.44	208	0.084	<1	1.65	0.039	0.12	0.2	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
80895	Soil	0.105	5	12	0.26	294	0.042	3	1.10	0.010	0.12	0.1	0.12	1.6	<0.1	0.06	4	<0.5	<0.2
80896	Soil	0.021	6	28	0.69	110	0.132	1	1.64	0.045	0.13	<0.1	0.01	4.2	<0.1	<0.05	6	<0.5	<0.2
80897	Soil	0.033	6	23	0.55	141	0.101	1	1.64	0.026	0.11	<0.1	0.03	3.1	<0.1	<0.05	5	<0.5	<0.2
80898	Soil	0.040	7	13	0.24	235	0.081	1	1.01	0.016	0.14	<0.1	0.02	2.3	<0.1	<0.05	3	<0.5	<0.2
80900	Soil	0.182	13	9	0.22	747	0.092	3	1.49	0.023	0.10	0.1	0.06	2.2	<0.1	<0.05	5	<0.5	<0.2
80902	Soil	0.070	7	10	0.20	430	0.044	3	1.06	0.016	0.11	<0.1	0.06	1.7	<0.1	<0.05	4	<0.5	<0.2
80903	Soil	0.239	22	6	0.28	750	0.023	8	1.10	0.019	0.13	<0.1	0.09	7.5	<0.1	<0.05	4	<0.5	<0.2
80904	Soil	0.024	14	19	0.36	260	0.099	2	1.59	0.023	0.10	<0.1	0.03	4.2	<0.1	<0.05	5	<0.5	<0.2
80905	Soil	0.039	8	13	0.26	313	0.063	2	1.40	0.017	0.12	<0.1	0.03	2.0	<0.1	<0.05	5	<0.5	<0.2
80906	Soil	0.034	26	15	0.26	350	0.029	3	1.79	0.029	0.06	<0.1	0.04	4.5	<0.1	<0.05	5	0.7	<0.2
80907	Soil	0.081	11	16	0.30	260	0.050	2	1.35	0.016	0.18	<0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
80908	Soil	0.080	17	12	0.25	305	0.058	2	1.27	0.012	0.21	<0.1	0.03	2.9	<0.1	<0.05	4	<0.5	<0.2
80909	Soil	0.072	13	11	0.20	287	0.046	2	1.17	0.014	0.21	0.1	0.03	2.9	<0.1	<0.05	4	<0.5	<0.2

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Project: 13
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CERTIFICATE OF ANALYSIS VAN10005284.1

Method		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
Unit		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
MDL		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
80910	Soil		1.3	23.7	9.8	76	<0.1	10.1	8.0	1079	1.98	3.0	1.3	0.7	1.0	50	0.4	0.3	0.1	46	0.56
80911	Soil		1.0	18.8	10.3	276	<0.1	7.0	4.9	4862	1.24	1.8	0.3	<0.5	0.3	65	0.9	0.2	0.1	24	0.76
80912	Soil		0.8	23.3	9.4	111	<0.1	11.0	8.5	1441	2.21	3.0	0.5	1.0	1.2	41	0.4	0.3	0.1	51	0.49
80913	Soil		1.0	19.9	7.6	83	<0.1	8.5	6.8	899	1.77	3.9	0.8	5.2	0.7	60	0.3	0.3	0.1	50	0.55
80914	Soil		1.0	27.3	10.4	118	0.2	11.1	7.1	1284	1.92	5.9	1.1	2.7	0.5	73	0.6	0.3	0.1	42	0.93
80915	Soil		0.8	27.2	7.8	55	0.3	11.0	5.8	638	1.87	3.9	1.4	3.8	0.6	69	0.4	0.4	<0.1	43	0.76
80916	Soil		0.5	32.9	8.4	75	0.3	13.6	6.2	841	1.98	4.2	2.0	16.4	0.8	77	0.4	0.5	0.1	42	1.05
80917	Soil		0.6	31.2	8.8	78	0.2	11.2	6.6	902	1.85	4.0	1.6	1.1	0.7	83	0.5	0.4	0.1	39	0.92
80918	Soil		0.5	31.6	7.6	53	0.3	13.0	6.4	706	2.07	4.2	1.7	5.4	0.7	72	0.3	0.6	<0.1	47	0.92
80919	Soil		0.7	30.7	8.7	62	0.2	11.0	6.6	797	1.84	4.7	1.3	34.5	0.6	68	0.4	0.4	0.1	40	0.89
80920	Soil		0.6	27.9	7.6	53	0.2	11.2	7.4	944	1.82	3.5	1.1	0.8	0.6	77	0.4	0.3	<0.1	43	1.06
80921	Soil		0.8	23.3	8.6	83	0.2	11.3	7.7	1073	2.02	3.5	0.7	0.8	0.6	71	0.4	0.3	0.1	54	0.71
80922	Soil		0.7	19.3	6.6	42	0.2	8.9	6.2	491	2.14	6.4	0.6	5.3	1.6	58	<0.1	0.5	<0.1	55	0.46
80923	Soil		0.7	16.9	6.1	50	0.1	9.2	5.9	458	2.04	3.8	0.6	9.8	1.3	39	0.1	0.4	<0.1	56	0.33
80924	Soil		0.6	20.7	7.5	57	0.2	12.2	7.3	355	2.54	4.3	0.5	1.3	1.6	40	<0.1	0.4	<0.1	68	0.34
80925	Soil		0.6	17.7	7.3	57	0.1	11.0	6.8	470	2.32	3.4	0.5	2.4	1.5	38	<0.1	0.4	<0.1	58	0.35
80926	Soil		1.5	21.4	10.4	48	0.8	7.5	7.1	848	2.26	11.3	0.5	18.9	1.7	49	0.1	0.6	0.1	50	0.46
80927	Soil		1.5	18.8	7.5	72	0.1	6.2	5.4	589	1.56	5.6	0.5	9.3	0.3	65	0.5	0.3	<0.1	34	1.02
80928	Soil		1.2	31.1	11.1	108	0.7	13.3	8.0	1027	2.51	6.1	2.1	4.0	1.2	68	0.3	0.4	0.1	45	0.80
80929	Soil		1.3	32.3	10.2	118	0.5	12.3	7.6	1005	2.31	6.0	2.0	8.4	1.0	74	0.4	0.4	0.1	41	0.94
80930	Soil		1.5	26.8	9.8	115	0.3	8.1	4.9	841	1.72	4.1	1.5	1.6	0.8	87	0.6	0.3	0.1	29	1.21
80931	Soil		0.9	35.5	9.1	68	0.2	10.0	7.6	904	2.31	6.2	0.9	4.7	0.9	53	0.3	0.4	0.1	56	0.74
80932	Soil		0.7	15.1	7.0	63	0.1	8.6	5.9	585	2.06	3.1	0.5	13.1	1.2	43	0.2	0.4	<0.1	55	0.37
80933	Soil		0.9	13.3	6.9	70	<0.1	7.8	5.5	860	1.84	2.6	0.4	6.2	1.1	42	0.2	0.4	<0.1	48	0.37
80934	Soil		3.7	19.0	11.6	116	0.2	8.1	7.1	1856	1.95	8.2	0.7	4.8	0.6	54	0.3	0.4	0.2	40	0.58
80935	Soil		5.3	18.2	9.9	56	0.3	9.8	6.7	540	2.27	9.6	0.7	32.0	2.0	36	<0.1	0.5	0.1	49	0.34
80936	Soil		5.4	19.6	11.6	107	0.7	8.8	7.3	1152	2.04	6.2	0.8	24.9	0.9	57	0.3	0.4	0.1	44	0.53
80937	Soil		5.4	22.5	10.4	163	0.4	7.8	6.4	1322	1.60	6.3	0.7	51.1	0.5	91	0.7	0.4	0.1	34	1.16
80938	Soil		2.8	15.6	8.9	57	0.5	10.3	7.4	555	2.54	6.1	0.6	42.4	1.5	55	0.2	0.3	0.1	56	0.47
80939	Soil		3.5	20.3	8.7	90	0.5	11.3	7.5	968	2.24	6.2	0.7	21.0	1.0	57	0.2	0.4	0.1	50	0.51

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Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
80910	Soil	0.059	17	16	0.30	244	0.070	2	1.64	0.017	0.24	<0.1	0.04	3.9	<0.1	<0.05	5	<0.5	<0.2
80911	Soil	0.157	6	8	0.16	821	0.045	2	1.32	0.020	0.11	<0.1	0.06	1.3	<0.1	<0.05	5	<0.5	<0.2
80912	Soil	0.091	9	18	0.34	303	0.080	<1	1.41	0.015	0.18	<0.1	0.03	3.1	<0.1	<0.05	5	<0.5	<0.2
80913	Soil	0.088	11	16	0.31	251	0.078	3	1.25	0.015	0.17	<0.1	0.04	2.9	<0.1	<0.05	4	<0.5	<0.2
80914	Soil	0.119	42	16	0.29	308	0.046	4	1.46	0.012	0.22	<0.1	0.04	2.9	<0.1	<0.05	4	<0.5	<0.2
80915	Soil	0.065	40	15	0.28	207	0.041	1	1.54	0.016	0.11	<0.1	0.05	3.7	<0.1	<0.05	4	<0.5	<0.2
80916	Soil	0.065	43	17	0.34	242	0.034	1	2.00	0.019	0.11	<0.1	0.05	4.9	<0.1	<0.05	5	<0.5	<0.2
80917	Soil	0.068	31	14	0.32	233	0.035	2	1.80	0.017	0.13	<0.1	0.06	3.8	<0.1	<0.05	5	<0.5	<0.2
80918	Soil	0.067	39	17	0.35	186	0.049	2	2.01	0.019	0.10	<0.1	0.04	4.5	<0.1	<0.05	6	<0.5	<0.2
80919	Soil	0.070	27	14	0.29	187	0.040	2	1.76	0.017	0.11	<0.1	0.05	4.2	<0.1	<0.05	5	<0.5	<0.2
80920	Soil	0.054	22	16	0.33	217	0.048	1	1.59	0.017	0.09	<0.1	0.07	4.0	<0.1	<0.05	4	<0.5	<0.2
80921	Soil	0.077	16	17	0.33	229	0.074	2	1.43	0.014	0.13	<0.1	0.06	3.3	<0.1	<0.05	4	<0.5	<0.2
80922	Soil	0.072	13	17	0.30	163	0.074	1	1.18	0.026	0.07	0.2	0.03	4.5	<0.1	<0.05	4	<0.5	<0.2
80923	Soil	0.049	10	17	0.27	158	0.084	<1	1.17	0.020	0.08	0.1	0.01	3.0	<0.1	<0.05	4	<0.5	<0.2
80924	Soil	0.052	11	24	0.41	154	0.109	<1	1.64	0.020	0.11	0.2	0.02	3.8	<0.1	<0.05	5	<0.5	<0.2
80925	Soil	0.047	10	21	0.36	176	0.103	1	1.50	0.017	0.12	0.2	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
80926	Soil	0.070	14	17	0.29	177	0.041	1	0.92	0.023	0.08	0.4	0.04	3.6	<0.1	<0.05	3	<0.5	<0.2
80927	Soil	0.106	11	10	0.24	194	0.038	6	0.93	0.007	0.16	0.1	0.05	2.0	<0.1	0.07	3	<0.5	<0.2
80928	Soil	0.130	43	26	0.37	273	0.038	3	2.55	0.015	0.27	0.2	0.04	7.1	<0.1	<0.05	6	<0.5	<0.2
80929	Soil	0.149	45	21	0.36	270	0.034	2	2.19	0.012	0.27	0.2	0.04	6.2	<0.1	<0.05	6	<0.5	<0.2
80930	Soil	0.196	39	14	0.28	277	0.023	4	2.04	0.008	0.27	0.1	0.06	4.4	<0.1	0.11	5	<0.5	<0.2
80931	Soil	0.086	16	18	0.32	251	0.064	3	1.71	0.011	0.15	0.1	0.03	4.3	<0.1	<0.05	5	<0.5	<0.2
80932	Soil	0.046	9	18	0.27	192	0.103	2	1.19	0.016	0.12	0.1	0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
80933	Soil	0.048	8	16	0.23	216	0.098	1	1.11	0.014	0.13	<0.1	0.02	2.4	<0.1	<0.05	4	<0.5	<0.2
80934	Soil	0.075	16	14	0.22	321	0.034	2	1.28	0.015	0.15	<0.1	0.05	2.2	0.1	<0.05	4	<0.5	<0.2
80935	Soil	0.054	15	18	0.37	161	0.030	<1	1.54	0.018	0.10	0.2	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
80936	Soil	0.059	18	20	0.27	262	0.068	2	1.62	0.017	0.15	0.4	0.04	3.7	0.1	<0.05	5	<0.5	<0.2
80937	Soil	0.109	19	14	0.25	329	0.039	4	1.24	0.012	0.19	<0.1	0.05	2.5	0.1	<0.05	4	<0.5	<0.2
80938	Soil	0.055	15	27	0.50	187	0.082	<1	1.40	0.023	0.12	0.4	0.02	4.3	<0.1	<0.05	4	<0.5	<0.2
80939	Soil	0.052	23	27	0.39	216	0.054	<1	1.40	0.017	0.13	0.4	0.02	4.4	<0.1	<0.05	4	<0.5	<0.2

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Report Date: October 25, 2010

CERTIFICATE OF ANALYSIS VAN10005284.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
80940	Soil		2.1	18.5	8.6	84	0.4	9.7	7.6	1010	2.30	5.5	0.5	9.1	0.8	51	0.2	0.5	0.1	53	0.55
80941	Soil		2.0	18.5	9.2	102	0.3	8.6	7.4	1342	2.13	4.7	0.6	9.9	0.7	61	0.3	0.4	0.1	50	0.68
80942	Soil		3.2	18.9	7.8	71	0.7	10.7	6.9	720	2.32	4.7	0.6	21.7	1.1	37	0.2	0.4	0.1	57	0.37
80943	Soil		2.8	15.3	8.4	76	0.3	10.2	6.6	900	2.08	3.4	0.6	32.6	0.9	36	0.2	0.3	<0.1	51	0.36
80944	Soil		0.6	12.6	5.9	52	<0.1	7.8	5.6	570	2.00	2.4	0.4	2.8	0.7	33	<0.1	0.4	<0.1	55	0.31
80945	Soil		1.1	14.6	7.3	53	<0.1	7.5	5.8	939	1.68	2.1	0.4	2.8	0.5	56	0.2	0.3	<0.1	44	0.66
80946	Soil		0.5	11.1	6.1	51	<0.1	7.3	5.6	592	2.02	2.1	0.4	5.9	1.1	33	<0.1	0.4	<0.1	57	0.30
80947	Soil		0.9	10.0	6.4	50	<0.1	6.6	4.9	864	1.62	1.3	0.3	<0.5	0.5	38	0.1	0.3	<0.1	44	0.37
80948	Soil		1.0	10.0	8.6	60	<0.1	5.8	3.6	1194	1.24	1.9	0.2	1.2	0.5	57	0.2	0.3	<0.1	35	0.74
80949	Soil		0.4	21.8	7.0	43	0.2	9.9	6.4	419	1.80	2.0	1.0	2.9	0.9	54	0.1	0.4	<0.1	49	0.54
80955	Soil		0.7	15.9	7.8	68	<0.1	6.9	6.2	890	1.92	3.6	0.5	10.2	0.8	56	0.2	0.4	<0.1	54	0.56
80956	Soil		1.0	18.3	7.4	85	<0.1	7.9	7.4	988	2.11	3.5	0.7	1.4	1.2	54	0.2	0.3	<0.1	53	0.57
80964	Soil		1.6	20.4	7.8	90	0.1	8.1	6.9	1122	1.96	4.5	1.0	3.9	0.4	55	0.3	0.3	<0.1	47	0.61
80971	Soil		0.8	45.9	10.2	61	0.3	15.6	5.2	1400	1.61	4.0	3.0	1.7	0.5	160	0.3	0.5	<0.1	30	2.12
80972	Soil		0.9	15.2	7.6	52	<0.1	7.6	4.9	1281	1.53	1.9	0.7	<0.5	0.4	50	0.1	0.2	<0.1	41	0.58
80973	Soil		0.7	9.5	7.7	51	<0.1	6.2	4.2	668	1.64	3.0	0.3	2.5	0.8	31	0.1	0.4	<0.1	47	0.37
80974	Soil		0.9	11.4	10.0	74	<0.1	8.4	5.5	1426	1.82	2.3	0.4	1.0	0.5	33	0.2	0.3	<0.1	47	0.40
80975	Soil		0.6	9.7	5.8	44	<0.1	6.5	4.7	393	1.86	2.0	0.4	1.9	0.8	29	<0.1	0.3	<0.1	53	0.29
80976	Soil		0.7	8.2	7.5	51	<0.1	6.1	5.4	574	1.79	1.6	0.3	2.3	0.8	26	0.1	0.3	<0.1	51	0.29
80977	Soil		0.8	16.8	7.0	63	0.2	9.5	6.3	593	2.11	3.0	1.0	110.3	0.7	59	0.2	0.3	<0.1	55	0.65
80978	Soil		0.9	13.8	6.6	44	<0.1	8.1	6.7	787	2.18	2.7	0.5	<0.5	1.1	43	0.2	0.4	<0.1	63	0.38
80979	Soil		1.3	23.8	8.0	71	0.1	9.1	7.6	961	2.25	5.4	0.5	7.0	0.8	52	0.2	0.4	<0.1	57	0.59
80980	Soil		1.0	14.2	7.1	67	<0.1	6.4	5.6	1002	1.92	3.4	0.5	2.6	0.5	45	0.2	0.3	<0.1	51	0.44
80981	Soil		1.4	12.1	7.5	75	<0.1	6.0	5.6	1327	1.77	3.1	0.4	5.0	0.5	42	0.2	0.4	<0.1	46	0.47
80982	Soil		1.3	13.9	8.1	77	0.1	6.3	5.5	1483	1.76	2.8	0.4	2.5	0.6	46	0.3	0.4	<0.1	44	0.51
80983	Soil		1.1	20.9	8.2	79	<0.1	9.1	9.6	1105	2.46	3.0	0.5	1.7	1.0	34	0.3	0.3	0.1	57	0.46
80984	Soil		0.5	45.5	13.7	216	0.1	4.9	6.5	4329	1.99	3.3	0.3	<0.5	0.5	78	1.1	0.2	0.1	27	1.73
81000	Soil		0.5	14.2	6.3	51	0.1	9.1	6.4	643	2.32	4.0	0.5	7.1	1.2	38	<0.1	0.5	<0.1	70	0.37
81002	Soil		0.8	13.3	7.2	64	<0.1	7.2	6.0	1191	2.06	2.8	0.4	7.4	0.8	48	0.2	0.4	<0.1	61	0.55
81003	Soil		0.6	28.4	5.7	64	0.3	17.8	10.1	689	2.97	5.8	0.5	1.7	1.5	62	0.1	0.5	<0.1	82	0.55

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Project: 13
Report Date: October 25, 2010

CERTIFICATE OF ANALYSIS VAN10005284.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
80940	Soil	0.055	13	23	0.35	295	0.071	2	1.26	0.013	0.16	0.4	0.02	2.5	<0.1	<0.05	4	<0.5	<0.2
80941	Soil	0.060	13	20	0.32	373	0.065	2	1.27	0.012	0.18	0.2	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
80942	Soil	0.037	13	22	0.32	243	0.084	2	1.41	0.013	0.15	0.6	0.03	3.2	0.1	<0.05	4	<0.5	<0.2
80943	Soil	0.035	14	18	0.25	292	0.076	2	1.36	0.012	0.15	0.3	0.03	2.7	<0.1	<0.05	4	<0.5	<0.2
80944	Soil	0.048	7	15	0.26	148	0.078	2	1.11	0.016	0.11	0.1	0.02	2.1	<0.1	<0.05	4	<0.5	<0.2
80945	Soil	0.038	7	13	0.25	186	0.069	3	1.01	0.012	0.16	<0.1	0.04	1.7	<0.1	0.05	4	<0.5	<0.2
80946	Soil	0.062	6	14	0.24	160	0.085	3	1.21	0.025	0.10	<0.1	0.01	2.0	<0.1	<0.05	4	<0.5	<0.2
80947	Soil	0.041	5	13	0.23	163	0.076	1	0.96	0.011	0.13	<0.1	0.03	1.7	<0.1	<0.05	4	<0.5	<0.2
80948	Soil	0.044	4	9	0.19	172	0.053	3	0.77	0.009	0.08	<0.1	0.13	1.3	<0.1	0.06	3	<0.5	<0.2
80949	Soil	0.024	25	16	0.32	134	0.061	1	1.44	0.020	0.08	<0.1	0.05	3.7	<0.1	<0.05	5	<0.5	<0.2
80955	Soil	0.034	8	13	0.24	230	0.082	3	0.98	0.014	0.13	<0.1	0.04	2.2	<0.1	<0.05	3	<0.5	<0.2
80956	Soil	0.076	11	15	0.27	236	0.085	2	1.31	0.018	0.22	<0.1	0.02	3.3	<0.1	<0.05	5	<0.5	<0.2
80964	Soil	0.062	18	14	0.26	231	0.055	2	1.41	0.013	0.17	<0.1	0.04	2.9	<0.1	<0.05	4	<0.5	<0.2
80971	Soil	0.071	77	16	0.36	386	0.022	4	1.98	0.012	0.09	<0.1	0.20	4.2	<0.1	0.11	5	<0.5	<0.2
80972	Soil	0.039	19	13	0.24	156	0.049	1	1.11	0.013	0.07	<0.1	0.05	2.2	<0.1	<0.05	4	<0.5	<0.2
80973	Soil	0.041	5	11	0.19	174	0.068	2	1.02	0.012	0.07	<0.1	0.05	1.4	<0.1	<0.05	4	<0.5	<0.2
80974	Soil	0.054	6	13	0.24	220	0.067	2	1.37	0.015	0.08	<0.1	0.06	1.6	<0.1	<0.05	5	<0.5	<0.2
80975	Soil	0.057	5	14	0.22	158	0.073	1	1.05	0.017	0.09	<0.1	0.02	1.8	<0.1	<0.05	4	<0.5	<0.2
80976	Soil	0.024	5	12	0.22	117	0.070	1	0.99	0.013	0.07	<0.1	0.03	1.6	<0.1	<0.05	4	<0.5	<0.2
80977	Soil	0.053	13	17	0.28	216	0.072	2	1.39	0.013	0.14	<0.1	0.04	2.7	<0.1	<0.05	4	<0.5	<0.2
80978	Soil	0.020	9	17	0.26	158	0.108	1	1.14	0.013	0.13	<0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2
80979	Soil	0.075	10	16	0.33	208	0.073	2	1.27	0.014	0.16	<0.1	0.04	3.2	<0.1	<0.05	4	<0.5	<0.2
80980	Soil	0.047	9	13	0.22	223	0.076	2	1.06	0.011	0.12	<0.1	0.03	2.2	<0.1	<0.05	4	<0.5	<0.2
80981	Soil	0.046	8	11	0.19	251	0.071	2	1.02	0.011	0.12	<0.1	0.03	1.9	<0.1	<0.05	4	<0.5	<0.2
80982	Soil	0.039	8	11	0.19	268	0.067	2	1.06	0.016	0.13	<0.1	0.04	2.2	<0.1	<0.05	3	<0.5	<0.2
80983	Soil	0.047	13	15	0.27	226	0.085	2	1.45	0.011	0.18	<0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
80984	Soil	0.140	20	6	0.28	611	0.027	7	1.34	0.008	0.13	<0.1	0.11	3.7	<0.1	0.08	4	<0.5	<0.2
81000	Soil	0.040	7	19	0.29	175	0.105	2	1.17	0.024	0.10	0.2	0.02	3.1	<0.1	<0.05	4	<0.5	<0.2
81002	Soil	0.051	6	15	0.25	233	0.089	2	1.06	0.013	0.14	<0.1	0.04	2.3	<0.1	<0.05	4	<0.5	<0.2
81003	Soil	0.078	9	30	0.57	171	0.127	2	1.68	0.032	0.13	0.3	0.02	5.2	<0.1	<0.05	5	<0.5	<0.2

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	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
81004	Soil		0.6	16.8	6.0	89	0.1	11.0	7.0	1196	2.13	3.2	0.4	1.3	0.7	48	0.1	0.3	<0.1	61	0.50
81005	Soil		0.6	28.1	5.4	46	<0.1	17.5	9.0	375	2.93	4.5	0.6	2.5	1.4	47	<0.1	0.4	<0.1	86	0.50
81006	Soil		0.6	23.8	4.9	50	<0.1	15.7	8.4	383	2.74	3.3	0.6	1.5	1.3	42	<0.1	0.4	<0.1	82	0.39
81007	Soil		0.4	8.6	5.8	54	0.6	4.6	3.9	523	1.62	1.8	0.3	<0.5	0.9	21	0.1	0.2	<0.1	35	0.23
81008	Soil		1.0	8.8	11.2	82	0.1	4.5	3.8	1985	1.19	1.7	0.2	<0.5	0.3	38	0.2	0.2	0.1	28	0.60
81009	Soil		0.5	11.9	5.3	47	0.1	6.7	5.2	571	1.98	4.3	0.4	1.6	1.1	42	0.1	0.5	<0.1	59	0.35
81010	Soil		0.6	10.8	5.7	58	<0.1	5.9	4.7	836	1.83	2.7	0.4	<0.5	0.9	38	0.1	0.5	<0.1	57	0.38
81011	Soil		0.6	17.2	6.4	40	0.3	9.2	6.6	409	2.31	5.1	0.7	1.2	1.6	50	<0.1	0.5	<0.1	69	0.34
81012	Soil		0.6	18.2	6.5	41	0.3	9.4	6.7	401	2.40	5.3	0.8	1.4	1.7	53	<0.1	0.5	<0.1	71	0.35
81013	Soil		0.6	31.1	8.1	60	0.4	10.6	7.8	566	2.22	6.6	2.7	1.4	2.0	55	0.2	0.5	<0.1	59	0.50
81014	Soil		0.9	22.1	8.0	58	0.2	9.0	7.2	644	2.09	4.4	1.7	1.3	1.6	46	0.1	0.4	<0.1	58	0.42
81015	Soil		0.7	20.3	7.8	58	0.2	9.8	8.1	617	2.53	7.7	0.6	31.6	1.2	53	0.1	0.5	<0.1	77	0.54
81016	Soil		0.8	16.2	12.0	77	0.2	6.0	4.9	1263	1.39	3.3	0.3	<0.5	0.5	92	0.3	0.3	<0.1	41	1.34
81017	Soil		0.7	25.6	7.8	53	0.5	14.2	9.8	746	3.04	9.1	1.0	12.9	2.1	73	<0.1	0.7	<0.1	87	0.62
81018	Soil		0.6	21.2	8.5	72	0.4	11.2	8.4	854	2.68	6.7	0.7	5.2	1.6	52	0.1	0.6	<0.1	81	0.47
81021	Soil		0.6	14.1	7.9	92	0.2	8.3	6.3	1139	1.91	2.7	0.4	6.1	1.2	28	0.2	0.2	0.1	49	0.38
81024	Soil		0.9	19.4	6.6	51	0.2	8.7	7.4	433	2.73	7.3	0.7	1.0	1.7	55	<0.1	0.6	<0.1	89	0.38
81026	Soil		0.6	20.2	6.4	55	<0.1	11.9	8.0	533	2.39	3.7	0.7	<0.5	1.6	47	0.1	0.4	<0.1	70	0.47
81028	Soil		1.3	15.2	10.2	93	<0.1	7.4	5.2	862	1.62	2.9	0.3	30.7	0.6	57	0.4	0.3	<0.1	48	0.71
81029	Soil		0.9	15.8	6.7	58	0.1	9.2	6.7	501	2.37	4.1	0.5	6.1	1.1	39	0.1	0.4	<0.1	72	0.35
81031	Soil		0.9	21.0	7.0	55	0.4	12.1	8.8	677	2.63	5.0	0.7	5.0	1.3	50	<0.1	0.4	<0.1	76	0.43
81032	Soil		0.9	22.7	7.3	55	0.3	12.6	9.2	740	2.63	3.8	0.8	4.0	1.2	51	<0.1	0.3	<0.1	77	0.43
81033	Soil		1.1	17.5	7.7	59	0.5	9.4	7.6	658	2.29	4.5	0.7	9.2	1.3	46	0.1	0.4	<0.1	63	0.37
81034	Soil		1.1	14.1	7.7	78	<0.1	8.0	5.9	1135	1.71	2.2	0.5	1.4	0.8	37	0.2	0.3	<0.1	50	0.40
81035	Soil		1.1	21.8	7.9	56	0.3	9.5	8.4	727	2.39	5.4	0.8	6.4	1.4	44	0.2	0.5	<0.1	66	0.38
81036	Soil		0.9	15.6	7.5	55	0.1	8.1	6.9	701	2.23	3.6	0.6	5.0	1.2	41	0.1	0.4	<0.1	64	0.33
81037	Soil		1.1	31.6	8.3	59	0.2	17.6	10.5	635	2.94	7.5	0.6	9.7	1.4	51	<0.1	0.4	0.1	80	0.58
81038	Soil		1.3	24.3	7.6	100	0.2	10.7	8.0	1012	2.10	4.6	0.6	2.6	0.4	66	0.3	0.3	<0.1	58	0.86
81039	Soil		0.9	21.9	8.1	62	0.6	10.8	9.0	665	2.47	6.1	0.7	10.2	1.5	49	<0.1	0.4	<0.1	68	0.45
81040	Soil		0.7	20.5	6.5	71	0.3	11.7	8.2	528	2.41	4.5	0.6	10.4	1.3	44	<0.1	0.3	<0.1	70	0.40

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Project: 13
Report Date: October 25, 2010

CERTIFICATE OF ANALYSIS VAN10005284.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
81004	Soil	0.080	6	18	0.32	227	0.096	2	1.25	0.015	0.10	<0.1	0.04	2.7	<0.1	<0.05	4	<0.5	<0.2
81005	Soil	0.052	10	31	0.60	117	0.132	1	1.76	0.025	0.10	0.1	0.02	5.2	<0.1	<0.05	5	<0.5	<0.2
81006	Soil	0.034	8	29	0.51	124	0.129	2	1.58	0.022	0.11	<0.1	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
81007	Soil	0.035	10	11	0.13	154	0.035	1	0.88	0.015	0.12	0.4	0.02	1.6	<0.1	<0.05	3	<0.5	<0.2
81008	Soil	0.044	6	8	0.12	350	0.032	3	0.83	0.011	0.11	<0.1	0.09	1.1	<0.1	<0.05	3	<0.5	<0.2
81009	Soil	0.034	8	14	0.21	175	0.093	2	0.87	0.020	0.10	0.2	0.02	2.7	<0.1	<0.05	3	<0.5	<0.2
81010	Soil	0.034	6	12	0.18	206	0.089	2	0.75	0.017	0.12	0.1	0.03	2.1	<0.1	<0.05	3	<0.5	<0.2
81011	Soil	0.029	8	20	0.28	147	0.095	2	1.07	0.034	0.13	0.2	0.03	4.5	<0.1	<0.05	3	<0.5	<0.2
81012	Soil	0.029	9	19	0.29	153	0.090	3	1.10	0.036	0.13	0.2	0.02	4.7	<0.1	<0.05	3	<0.5	<0.2
81013	Soil	0.031	26	19	0.33	198	0.083	2	1.63	0.030	0.12	0.2	0.03	5.9	<0.1	<0.05	5	<0.5	<0.2
81014	Soil	0.034	13	17	0.26	196	0.090	1	1.35	0.024	0.10	0.1	0.02	4.1	<0.1	<0.05	4	<0.5	<0.2
81015	Soil	0.043	10	20	0.31	183	0.094	2	1.22	0.016	0.11	0.2	0.03	3.7	<0.1	<0.05	4	<0.5	<0.2
81016	Soil	0.069	5	11	0.22	332	0.056	6	0.72	0.015	0.14	0.1	0.15	1.8	<0.1	<0.05	2	0.5	<0.2
81017	Soil	0.054	13	29	0.48	191	0.107	2	1.64	0.033	0.10	0.3	0.05	6.8	<0.1	<0.05	5	<0.5	<0.2
81018	Soil	0.062	10	22	0.36	203	0.108	2	1.63	0.028	0.11	0.3	0.03	4.5	<0.1	<0.05	5	0.5	<0.2
81021	Soil	0.107	8	13	0.24	186	0.059	1	1.60	0.015	0.10	<0.1	0.02	2.4	<0.1	<0.05	6	<0.5	<0.2
81024	Soil	0.025	10	22	0.33	175	0.107	<1	1.38	0.028	0.09	0.3	0.02	3.9	<0.1	<0.05	4	<0.5	<0.2
81026	Soil	0.032	11	22	0.42	134	0.125	2	1.29	0.025	0.10	<0.1	0.05	4.5	<0.1	<0.05	4	<0.5	<0.2
81028	Soil	0.066	5	14	0.22	227	0.074	3	0.84	0.015	0.16	<0.1	0.06	1.8	<0.1	<0.05	3	<0.5	<0.2
81029	Soil	0.036	8	21	0.29	193	0.120	2	1.25	0.019	0.13	0.1	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2
81031	Soil	0.036	13	33	0.39	167	0.113	1	1.42	0.023	0.11	0.8	0.02	4.1	<0.1	<0.05	4	<0.5	<0.2
81032	Soil	0.029	16	29	0.38	179	0.126	1	1.58	0.024	0.12	0.2	0.02	4.2	<0.1	<0.05	5	<0.5	<0.2
81033	Soil	0.038	11	23	0.34	162	0.103	1	1.46	0.018	0.14	0.3	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
81034	Soil	0.025	8	14	0.23	175	0.098	1	0.95	0.013	0.13	<0.1	0.04	2.4	<0.1	<0.05	3	<0.5	<0.2
81035	Soil	0.030	14	20	0.30	163	0.104	1	1.27	0.019	0.15	0.2	0.03	4.2	<0.1	<0.05	4	<0.5	<0.2
81036	Soil	0.022	11	17	0.25	164	0.112	<1	1.05	0.016	0.16	0.1	0.02	3.2	<0.1	<0.05	4	<0.5	<0.2
81037	Soil	0.072	12	31	0.62	150	0.118	2	1.85	0.018	0.14	0.2	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2
81038	Soil	0.074	9	18	0.34	223	0.077	4	1.23	0.012	0.17	<0.1	0.04	2.7	<0.1	<0.05	4	<0.5	<0.2
81039	Soil	0.067	11	29	0.42	150	0.104	2	1.39	0.022	0.12	0.3	0.03	4.3	<0.1	<0.05	4	<0.5	<0.2
81040	Soil	0.064	9	26	0.41	148	0.115	1	1.32	0.022	0.10	0.3	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2

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CERTIFICATE OF ANALYSIS VAN10005284.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
81041	Soil		0.8	22.3	9.5	49	0.4	10.4	8.9	693	2.51	6.3	1.4	4.1	2.0	64	<0.1	0.4	<0.1	65	0.53
81042	Soil		0.8	19.7	7.6	77	0.1	8.9	7.2	807	1.97	3.5	1.2	3.9	0.6	57	0.1	0.2	<0.1	57	0.62
81043	Soil		1.1	19.4	8.2	61	0.2	10.5	8.3	663	2.29	6.0	1.9	4.8	1.0	48	<0.1	0.4	<0.1	61	0.47
81044	Soil		1.2	18.5	8.3	67	0.3	8.6	6.7	763	1.86	4.7	1.3	6.1	0.5	56	0.1	0.3	<0.1	52	0.60
81045	Soil		1.0	18.0	7.4	55	0.3	10.8	7.3	539	2.40	4.5	1.2	32.3	1.4	51	<0.1	0.4	<0.1	67	0.42
81046	Soil		1.0	32.9	7.5	83	0.3	18.3	9.1	878	2.68	4.0	2.3	3.3	0.9	61	0.2	0.3	<0.1	68	0.61
81047	Soil		0.9	27.2	9.6	67	0.5	12.6	11.6	952	2.99	7.2	1.4	4.8	1.6	51	0.2	0.5	<0.1	74	0.69
81048	Soil		1.2	24.1	9.6	84	0.2	10.9	8.3	1072	2.25	4.3	1.4	7.0	0.7	41	0.3	0.3	<0.1	57	0.62
81050	Soil		1.5	17.4	7.8	65	<0.1	9.4	7.0	1121	1.99	3.2	0.5	8.7	0.8	42	0.1	0.3	<0.1	58	0.43
81051	Soil		1.1	12.6	7.1	74	<0.1	9.9	6.5	1072	1.85	1.9	0.3	2.1	0.8	48	0.2	0.2	<0.1	55	0.59
81052	Soil		0.8	13.6	6.5	77	<0.1	8.9	5.9	835	1.94	2.2	0.4	2.5	1.0	34	0.2	0.2	<0.1	57	0.35
81053	Soil		0.8	16.1	6.9	95	<0.1	7.2	6.5	1022	1.83	2.7	0.4	4.1	1.0	64	0.6	0.3	<0.1	53	0.69
81054	Soil		1.0	34.9	7.7	84	0.3	13.4	6.2	627	1.71	4.1	1.7	5.6	0.5	81	0.4	0.3	<0.1	42	1.22
81055	Soil		1.7	19.3	8.5	100	<0.1	7.4	5.1	1032	1.44	3.3	0.6	5.2	0.5	80	0.5	0.2	0.1	36	1.08
81056	Soil		2.1	18.1	32.0	107	<0.1	6.5	4.8	4342	1.61	4.4	0.6	<0.5	<0.1	41	0.8	0.2	0.5	26	0.60
81057	Soil		1.4	26.2	7.1	72	<0.1	8.2	11.9	1089	2.32	2.5	0.5	<0.5	0.4	51	0.5	0.2	<0.1	42	0.87
81058	Soil		2.0	28.9	8.5	29	0.2	11.0	2.1	920	0.73	2.9	1.0	2.4	0.2	141	0.4	0.7	<0.1	19	2.29

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CERTIFICATE OF ANALYSIS VAN10005284.1

Method		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
Analyte		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
81041	Soil	0.037	12	19	0.46	182	0.079	3	1.84	0.030	0.17	0.2	0.03	6.1	<0.1	<0.05	5	<0.5	<0.2
81042	Soil	0.044	11	16	0.36	174	0.080	3	1.29	0.019	0.10	<0.1	0.04	3.0	<0.1	<0.05	4	<0.5	<0.2
81043	Soil	0.036	12	21	0.38	166	0.085	2	1.52	0.037	0.13	0.2	0.03	3.7	<0.1	<0.05	5	<0.5	<0.2
81044	Soil	0.046	10	17	0.33	172	0.064	2	1.18	0.017	0.10	0.1	0.05	2.5	<0.1	<0.05	4	<0.5	<0.2
81045	Soil	0.030	12	21	0.40	148	0.112	1	1.49	0.037	0.13	0.2	0.03	4.8	<0.1	<0.05	5	<0.5	<0.2
81046	Soil	0.041	24	29	0.51	220	0.085	2	2.43	0.022	0.13	<0.1	0.03	6.2	<0.1	<0.05	7	<0.5	<0.2
81047	Soil	0.053	15	29	0.45	225	0.087	3	2.16	0.018	0.18	0.3	0.04	7.1	<0.1	<0.05	6	<0.5	<0.2
81048	Soil	0.067	16	20	0.29	223	0.077	3	1.77	0.018	0.16	<0.1	0.05	3.7	<0.1	<0.05	5	<0.5	<0.2
81050	Soil	0.036	10	17	0.27	223	0.092	2	1.19	0.013	0.19	<0.1	0.03	2.6	<0.1	<0.05	4	<0.5	<0.2
81051	Soil	0.028	6	17	0.28	234	0.106	2	1.16	0.015	0.14	<0.1	0.03	2.4	<0.1	<0.05	4	<0.5	<0.2
81052	Soil	0.029	8	16	0.26	162	0.111	2	1.19	0.015	0.11	<0.1	0.02	2.6	<0.1	<0.05	4	<0.5	<0.2
81053	Soil	0.047	8	13	0.21	224	0.098	3	0.93	0.015	0.20	<0.1	0.02	2.5	<0.1	<0.05	3	<0.5	<0.2
81054	Soil	0.082	41	15	0.32	235	0.034	3	1.62	0.013	0.19	<0.1	0.07	3.5	<0.1	0.09	4	<0.5	<0.2
81055	Soil	0.063	10	11	0.20	250	0.047	4	0.80	0.009	0.13	<0.1	0.06	1.7	<0.1	<0.05	3	<0.5	<0.2
81056	Soil	0.170	36	7	0.16	477	0.023	2	1.49	0.009	0.08	<0.1	0.11	0.5	<0.1	<0.05	6	<0.5	<0.2
81057	Soil	0.072	10	13	0.45	224	0.064	3	1.40	0.007	0.17	<0.1	0.05	2.9	<0.1	<0.05	4	<0.5	<0.2
81058	Soil	0.106	58	9	0.25	278	0.015	5	0.99	0.019	0.08	<0.1	0.20	1.7	<0.1	0.14	2	1.0	0.2

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Report Date: October 25, 2010

QUALITY CONTROL REPORT VAN10005284.1

	Method	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
	Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
	MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
77863	Soil		0.5	15.7	6.6	78	0.6	8.9	8.1	841	2.60	3.9	0.6	2.9	1.1	46	0.2	0.4	<0.1	71	0.41
REP 77863	QC		0.5	14.7	6.7	75	0.8	7.7	7.6	813	2.41	3.7	0.6	2.0	1.2	46	0.2	0.4	<0.1	67	0.39
80710	Soil		0.8	14.7	7.9	102	<0.1	6.5	4.9	1546	1.59	1.6	0.3	1.2	0.8	55	0.5	0.2	<0.1	44	0.53
REP 80710	QC		0.8	13.8	7.5	102	<0.1	6.5	4.7	1542	1.50	1.8	0.3	6.3	0.7	52	0.4	0.3	<0.1	43	0.53
80729	Soil		0.3	16.2	6.0	22	<0.1	7.5	6.3	180	1.70	1.9	0.5	0.6	1.0	50	<0.1	0.3	<0.1	51	0.68
REP 80729	QC		0.3	15.7	5.7	21	<0.1	7.2	6.1	177	1.67	1.7	0.5	0.8	0.9	51	<0.1	0.3	<0.1	48	0.67
80754	Soil		0.8	23.8	6.9	64	0.2	10.0	7.4	846	2.24	4.1	0.8	4.2	0.9	59	0.2	0.4	<0.1	57	0.58
REP 80754	QC		0.9	24.4	7.0	64	0.1	10.9	7.0	867	2.26	4.4	0.8	2.8	0.8	60	0.1	0.4	<0.1	59	0.59
80779	Soil		0.6	14.5	5.5	82	<0.1	8.9	6.3	911	1.93	1.8	0.5	2.1	0.8	45	0.1	0.2	<0.1	53	0.47
REP 80779	QC		0.6	13.5	6.0	81	<0.1	8.8	6.4	914	1.94	1.7	0.4	2.9	0.9	46	0.2	0.3	0.1	53	0.46
80787	Soil		0.8	22.2	6.9	54	<0.1	9.1	6.8	870	2.04	2.7	0.9	5.7	1.1	50	0.3	0.4	0.1	55	0.43
REP 80787	QC		0.7	22.7	6.7	55	<0.1	9.4	7.2	896	2.08	3.0	0.9	46.4	1.0	52	0.3	0.4	<0.1	54	0.44
80813	Soil		0.7	26.4	8.3	78	0.2	10.0	8.5	1083	2.39	4.2	0.9	2.4	0.9	69	0.3	0.4	0.1	61	0.63
REP 80813	QC		0.7	27.4	8.2	82	0.2	10.5	9.0	1124	2.50	4.5	0.9	3.7	0.9	71	0.3	0.4	<0.1	63	0.65
80831	Soil		0.5	14.6	7.0	50	<0.1	7.7	6.2	575	2.13	4.5	0.5	0.8	1.3	42	<0.1	0.5	<0.1	62	0.37
REP 80831	QC		0.6	15.1	7.1	55	<0.1	8.4	6.5	575	2.16	4.6	0.4	0.8	1.2	43	0.1	0.5	<0.1	61	0.37
80854	Soil		0.8	20.0	8.8	54	<0.1	11.0	7.9	758	2.12	2.7	0.6	1.2	1.1	51	0.2	0.3	0.1	60	0.46
REP 80854	QC		0.7	19.4	8.8	55	<0.1	10.8	7.7	735	1.97	2.6	0.6	4.2	1.1	50	0.2	0.3	<0.1	56	0.45
80864	Soil		1.7	12.3	12.4	127	1.3	5.9	6.7	2861	1.90	9.1	0.5	125.2	0.6	44	0.5	0.3	0.1	40	0.53
REP 80864	QC		1.6	12.2	12.3	125	1.3	6.0	6.6	2964	1.94	9.3	0.4	149.5	0.5	44	0.6	0.4	0.1	39	0.56
80886	Soil		0.7	22.3	7.7	58	1.3	13.6	8.2	619	2.67	4.4	0.8	31.5	1.7	48	0.1	0.4	<0.1	66	0.40
REP 80886	QC		0.7	23.5	7.7	61	1.4	13.9	8.3	631	2.75	5.0	0.8	49.5	1.6	48	<0.1	0.4	0.1	69	0.39
80911	Soil		1.0	18.8	10.3	276	<0.1	7.0	4.9	4862	1.24	1.8	0.3	<0.5	0.3	65	0.9	0.2	0.1	24	0.76
REP 80911	QC		0.9	19.8	10.4	270	<0.1	7.1	4.9	4858	1.22	1.6	0.3	<0.5	0.4	63	0.9	0.1	0.1	26	0.73
80929	Soil		1.3	32.3	10.2	118	0.5	12.3	7.6	1005	2.31	6.0	2.0	8.4	1.0	74	0.4	0.4	0.1	41	0.94
REP 80929	QC		1.1	32.1	10.0	116	0.5	12.2	7.4	970	2.20	5.8	1.8	4.3	1.1	70	0.4	0.4	0.1	39	0.93
80955	Soil		0.7	15.9	7.8	68	<0.1	6.9	6.2	890	1.92	3.6	0.5	10.2	0.8	56	0.2	0.4	<0.1	54	0.56
REP 80955	QC		0.8	15.9	7.8	69	<0.1	6.8	6.6	914	1.96	3.6	0.5	11.3	0.8	59	0.2	0.4	<0.1	52	0.57

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Client: **Strongbow Exploration Inc.**
860 - 625 Howe St.
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Project: 13
Report Date: October 25, 2010

QUALITY CONTROL REPORT VAN10005284.1

	Method	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
	Analyte	P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
	Unit	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
	MDL	0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
Pulp Duplicates																			
77863	Soil	0.038	9	17	0.28	195	0.111	3	1.40	0.022	0.12	0.3	0.03	3.2	<0.1	<0.05	5	<0.5	<0.2
REP 77863	QC	0.035	9	16	0.27	196	0.093	2	1.38	0.017	0.12	0.4	0.02	3.2	<0.1	<0.05	5	<0.5	<0.2
80710	Soil	0.043	8	12	0.22	276	0.080	2	0.80	0.018	0.12	<0.1	0.05	2.3	<0.1	<0.05	3	<0.5	<0.2
REP 80710	QC	0.042	8	12	0.21	277	0.081	2	0.76	0.015	0.12	<0.1	0.05	2.3	<0.1	<0.05	3	<0.5	<0.2
80729	Soil	0.012	10	14	0.23	120	0.051	<1	1.11	0.024	0.02	<0.1	0.02	2.9	<0.1	<0.05	3	<0.5	<0.2
REP 80729	QC	0.012	10	13	0.24	122	0.046	<1	1.06	0.019	0.02	<0.1	0.02	2.7	<0.1	<0.05	4	<0.5	<0.2
80754	Soil	0.048	14	20	0.31	178	0.090	1	1.41	0.021	0.15	0.1	0.03	3.6	<0.1	<0.05	4	<0.5	<0.2
REP 80754	QC	0.049	15	20	0.31	180	0.094	2	1.39	0.024	0.16	<0.1	0.03	3.6	<0.1	<0.05	5	<0.5	<0.2
80779	Soil	0.029	11	18	0.29	157	0.113	2	1.22	0.021	0.13	<0.1	0.04	2.8	<0.1	<0.05	4	<0.5	<0.2
REP 80779	QC	0.027	11	18	0.30	156	0.111	2	1.23	0.027	0.12	<0.1	0.03	2.9	<0.1	<0.05	4	<0.5	<0.2
80787	Soil	0.033	19	15	0.29	172	0.076	2	1.16	0.023	0.19	<0.1	0.03	3.4	<0.1	<0.05	4	<0.5	<0.2
REP 80787	QC	0.034	20	15	0.29	174	0.077	2	1.18	0.025	0.20	<0.1	0.02	3.4	<0.1	<0.05	4	<0.5	<0.2
80813	Soil	0.066	24	19	0.40	170	0.078	3	1.45	0.014	0.26	<0.1	0.03	5.0	<0.1	<0.05	5	<0.5	<0.2
REP 80813	QC	0.067	24	19	0.41	171	0.079	3	1.49	0.014	0.27	<0.1	0.03	5.0	<0.1	<0.05	5	<0.5	<0.2
80831	Soil	0.032	6	15	0.27	164	0.084	1	1.01	0.016	0.09	<0.1	0.02	2.6	<0.1	<0.05	3	<0.5	<0.2
REP 80831	QC	0.031	7	15	0.27	169	0.085	1	1.02	0.014	0.09	<0.1	0.02	2.6	<0.1	<0.05	3	<0.5	<0.2
80854	Soil	0.028	9	19	0.35	134	0.105	2	1.30	0.019	0.12	<0.1	0.03	3.1	<0.1	<0.05	4	<0.5	<0.2
REP 80854	QC	0.029	9	18	0.35	133	0.099	1	1.29	0.018	0.12	<0.1	0.04	3.1	<0.1	<0.05	4	<0.5	<0.2
80864	Soil	0.141	10	8	0.15	259	0.034	<1	1.35	0.017	0.10	<0.1	0.06	1.5	0.2	<0.05	5	<0.5	<0.2
REP 80864	QC	0.146	11	8	0.16	272	0.033	2	1.36	0.013	0.11	<0.1	0.07	1.6	0.2	<0.05	5	<0.5	<0.2
80886	Soil	0.042	14	24	0.49	161	0.097	<1	2.09	0.019	0.12	0.2	0.05	4.6	<0.1	<0.05	6	<0.5	<0.2
REP 80886	QC	0.041	14	25	0.49	159	0.106	<1	2.13	0.016	0.12	0.2	0.04	5.0	<0.1	<0.05	6	<0.5	<0.2
80911	Soil	0.157	6	8	0.16	821	0.045	2	1.32	0.020	0.11	<0.1	0.06	1.3	<0.1	<0.05	5	<0.5	<0.2
REP 80911	QC	0.157	7	8	0.16	803	0.044	2	1.28	0.021	0.11	<0.1	0.06	1.3	<0.1	<0.05	5	<0.5	<0.2
80929	Soil	0.149	45	21	0.36	270	0.034	2	2.19	0.012	0.27	0.2	0.04	6.2	<0.1	<0.05	6	<0.5	<0.2
REP 80929	QC	0.144	44	22	0.35	260	0.027	2	2.14	0.011	0.26	0.2	0.04	5.7	<0.1	<0.05	6	<0.5	<0.2
80955	Soil	0.034	8	13	0.24	230	0.082	3	0.98	0.014	0.13	<0.1	0.04	2.2	<0.1	<0.05	3	<0.5	<0.2
REP 80955	QC	0.037	9	12	0.23	232	0.083	3	1.02	0.014	0.13	<0.1	0.04	2.4	<0.1	<0.05	4	<0.5	<0.2

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QUALITY CONTROL REPORT VAN10005284.1

		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
81003	Soil		0.6	28.4	5.7	64	0.3	17.8	10.1	689	2.97	5.8	0.5	1.7	1.5	62	0.1	0.5	<0.1	82	0.55
REP 81003	QC		0.6	28.7	6.0	62	0.3	15.6	9.9	701	2.99	5.9	0.6	2.9	1.6	60	<0.1	0.5	<0.1	83	0.56
81035	Soil		1.1	21.8	7.9	56	0.3	9.5	8.4	727	2.39	5.4	0.8	6.4	1.4	44	0.2	0.5	<0.1	66	0.38
REP 81035	QC		1.1	22.5	7.9	57	0.4	9.4	8.6	747	2.42	5.6	0.8	16.8	1.5	46	0.1	0.5	<0.1	68	0.40
81040	Soil		0.7	20.5	6.5	71	0.3	11.7	8.2	528	2.41	4.5	0.6	10.4	1.3	44	<0.1	0.3	<0.1	70	0.40
REP 81040	QC		0.7	20.0	6.4	71	0.4	11.7	8.0	539	2.40	4.0	0.6	14.3	1.3	42	<0.1	0.4	<0.1	70	0.39
81055	Soil		1.7	19.3	8.5	100	<0.1	7.4	5.1	1032	1.44	3.3	0.6	5.2	0.5	80	0.5	0.2	0.1	36	1.08
REP 81055	QC		1.7	19.3	8.3	100	<0.1	7.2	5.4	1020	1.43	3.6	0.5	9.0	0.4	82	0.6	0.2	<0.1	35	1.06
Reference Materials																					
STD DS7	Standard		20.8	111.1	70.0	395	1.0	55.8	9.1	613	2.36	49.7	4.8	81.7	4.8	77	6.3	6.0	4.7	82	0.94
STD DS7	Standard		21.8	116.0	70.2	389	0.9	57.6	9.7	627	2.43	50.2	4.9	65.2	4.8	77	6.3	6.1	4.8	85	0.97
STD DS7	Standard		19.7	121.9	73.9	385	1.0	52.3	9.0	569	2.21	52.9	5.3	62.8	5.2	70	6.8	6.6	4.9	80	0.84
STD DS7	Standard		20.0	107.9	70.9	386	1.0	56.2	9.1	602	2.32	49.8	4.9	72.5	4.6	75	6.0	6.2	4.8	81	0.90
STD DS7	Standard		19.5	115.2	71.0	377	1.0	54.3	8.9	569	2.23	48.7	5.0	69.9	4.9	73	6.6	6.2	4.9	80	0.84
STD DS7	Standard		19.7	106.9	69.0	388	1.0	54.0	9.2	599	2.30	48.2	4.9	78.7	4.8	73	5.8	5.8	4.5	80	0.85
STD DS7	Standard		23.9	125.9	75.6	416	1.0	62.1	10.6	667	2.52	50.7	5.3	82.6	5.5	80	6.4	6.0	4.7	96	1.03
STD DS7	Standard		18.9	104.2	69.8	372	0.9	50.8	8.8	597	2.28	49.7	4.9	68.3	4.7	73	6.2	5.8	4.7	79	0.91
STD DS7	Standard		21.7	115.2	69.5	380	0.9	58.3	9.6	584	2.27	47.2	4.8	57.6	4.5	62	5.8	5.5	4.6	85	0.87
STD DS7	Standard		20.3	115.0	71.6	411	1.1	56.8	9.8	661	2.49	55.6	5.0	72.7	4.6	70	6.9	6.1	5.0	85	0.94
STD DS7	Standard		21.2	111.8	75.8	382	0.9	59.4	9.4	602	2.32	49.8	5.4	60.8	5.2	77	5.6	6.1	4.8	87	0.89
STD DS7	Standard		23.4	116.0	74.1	401	1.0	63.4	10.0	659	2.54	54.4	5.4	70.9	5.0	94	6.5	6.9	5.5	91	1.02
STD DS7 Expected			20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01

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QUALITY CONTROL REPORT VAN10005284.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
81003	Soil	0.078	9	30	0.57	171	0.127	2	1.68	0.032	0.13	0.3	0.02	5.2	<0.1	<0.05	5	<0.5	<0.2
REP 81003	QC	0.077	9	31	0.56	174	0.125	2	1.63	0.024	0.12	0.3	0.02	5.0	<0.1	<0.05	5	<0.5	<0.2
81035	Soil	0.030	14	20	0.30	163	0.104	1	1.27	0.019	0.15	0.2	0.03	4.2	<0.1	<0.05	4	<0.5	<0.2
REP 81035	QC	0.031	15	19	0.31	163	0.110	2	1.29	0.020	0.16	0.2	0.03	4.3	<0.1	<0.05	4	<0.5	<0.2
81040	Soil	0.064	9	26	0.41	148	0.115	1	1.32	0.022	0.10	0.3	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2
REP 81040	QC	0.064	9	25	0.41	152	0.104	1	1.25	0.023	0.10	0.3	0.02	3.6	<0.1	<0.05	4	<0.5	<0.2
81055	Soil	0.063	10	11	0.20	250	0.047	4	0.80	0.009	0.13	<0.1	0.06	1.7	<0.1	<0.05	3	<0.5	<0.2
REP 81055	QC	0.064	10	11	0.20	251	0.047	4	0.80	0.008	0.12	<0.1	0.07	1.6	<0.1	<0.05	2	<0.5	<0.2
Reference Materials																			
STD DS7	Standard	0.074	14	204	1.05	396	0.125	35	1.03	0.100	0.45	3.7	0.21	2.7	3.8	0.19	5	3.3	1.2
STD DS7	Standard	0.074	14	211	1.03	397	0.133	39	1.04	0.107	0.45	3.5	0.23	2.6	3.9	0.21	5	3.5	0.7
STD DS7	Standard	0.092	13	170	1.02	401	0.127	40	1.02	0.101	0.45	3.2	0.21	2.6	3.8	0.16	5	2.9	1.3
STD DS7	Standard	0.073	13	192	1.00	391	0.122	38	0.98	0.097	0.44	3.5	0.22	2.6	4.1	0.16	5	2.7	1.1
STD DS7	Standard	0.071	12	184	0.96	365	0.127	39	0.95	0.089	0.41	3.2	0.21	2.5	3.6	0.18	4	3.2	1.3
STD DS7	Standard	0.070	13	197	1.02	376	0.119	38	0.98	0.092	0.45	3.3	0.21	2.3	3.8	0.19	5	2.8	1.4
STD DS7	Standard	0.070	15	242	1.10	405	0.155	38	1.12	0.103	0.48	3.8	0.23	3.2	4.3	0.19	5	3.3	1.3
STD DS7	Standard	0.077	13	190	1.00	391	0.116	39	0.93	0.094	0.46	3.5	0.21	2.4	4.0	0.21	4	2.8	1.8
STD DS7	Standard	0.069	11	204	0.99	361	0.121	39	0.91	0.083	0.42	3.3	0.22	2.2	3.8	0.18	4	2.9	0.8
STD DS7	Standard	0.082	12	205	1.06	407	0.117	40	1.02	0.098	0.49	3.8	0.22	2.5	4.4	0.19	5	3.1	1.0
STD DS7	Standard	0.070	14	219	1.06	377	0.137	39	1.04	0.098	0.46	3.6	0.21	2.6	3.7	0.20	4	2.2	0.9
STD DS7	Standard	0.077	16	230	1.09	457	0.151	41	1.06	0.109	0.50	4.0	0.23	2.9	4.4	0.17	5	3.4	1.3
STD DS7 Expected		0.08	12	179	1.05	410	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5	1.08
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2

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860 - 625 Howe St.
Vancouver BC V6C 2T6 Canada

Project: 13
Report Date: October 25, 2010

QUALITY CONTROL REPORT VAN10005284.1

		WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01

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QUALITY CONTROL REPORT VAN10005284.1

		1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2