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ASSESSMENT REPORT

describing

STREAM SEDIMENT, SOIL AND ROCK GEOCHEMICAL

at the

LIAM PROPERTY

Liam 1-42	YD29861-YD29902
Liam 43-60	YD01041-YD01058
Liam 61-76	YE36751-YE36766
Liam 81-104	YE36771-YE36794

NTS 105N/01

Latitude 63°10'N; Longitude 132°22'W

located in the

Mayo Mining District
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

NEW DIMENSION RESOURCES LTD.

and

STRATEGIC METALS LTD.

by

S. Eaton, B.Sc., GIT

November 2011

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INTRODUCTION

The Liam property is located in east-central Yukon and covers the headwaters of creeks that yielded regionally anomalous arsenic, antimony, mercury and bismuth values from government stream sediment samples. The property is owned by Strategic Metals Ltd. and is under option to New Dimension Resources Ltd.

This report describes stream sediment, soil and rock geochemical sampling and prospecting conducted on May 30, June 15 and July 26-27, 2011 by Archer, Cathro and Associates (1981) Limited on behalf of New Dimension. The author participated in and directed this project and her Statement of Qualifications is in Appendix I.

PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Liam property is located in east-central Yukon at latitude 63°10' north and longitude 132°22' west on NTS map sheet 105N/01 (Figure 1). It comprises 100 contiguous quartz claims that cover an area of about 2000 hectares (20 km²). Sixty of these claims were acquired prior to the 2011 exploration program, the remaining claims were staked after positive results were obtained. All of the claims are registered with the Mayo Mining Recorder in the name of Archer Cathro, which holds them in trust for Strategic Metals. Specifics concerning claim registration are tabulated below, while the locations of individual claims are shown on Figure 2.

<u>Claim Name</u>	<u>Grant Number</u>	<u>Expiry Date</u>
Liam 1-42	YD29861-YD29902	March 31, 2015*
Liam 43-60	YD01041-YD01058	March 31, 2015*
Liam 61-76	YE36751-YE36766	July 20, 2012
Liam 81-104	YE36771-YE36794	July 20, 2012

* Expiry dates include 2011 work which has been filed for assessment credit but not yet accepted.

Daily access to and from the property was provided by a Bell 206B helicopter operated by Trans North Helicopters from the Faro airport, which is located approximately 125 km south-southwest of the property. All personnel stayed at the Faro Studio Hotel. Faro is accessible via the Robert Campbell Highway in all seasons using two-wheel drive vehicles.

HISTORY AND PREVIOUS WORK

In 1990, the Geological Survey of Canada (GSC) completed a reconnaissance-scale stream sediment and water sampling survey on NTS map sheet 105N (Day *et. al.*, 2009). Samples collected from creeks draining the Liam property returned 99th percentile bismuth and 98th percentile arsenic, mercury and antimony values for that map sheet.

In 1997, Viceroy Exploration (Canada), Inc. staked the Squall 1 to 12 claims, which overlapped with the east-central part of the current Liam property. Viceroy completed preliminary geological mapping and rock and silt sampling (Schulze, 1998). It discovered narrow, gold-bearing, quartz-arsenopyrite veins within extensively hornfelsed clastic sedimentary rocks. The veins yielded values up to 1.8 g/t gold, while the weakly to moderately pyrite- and pyrrhotite-

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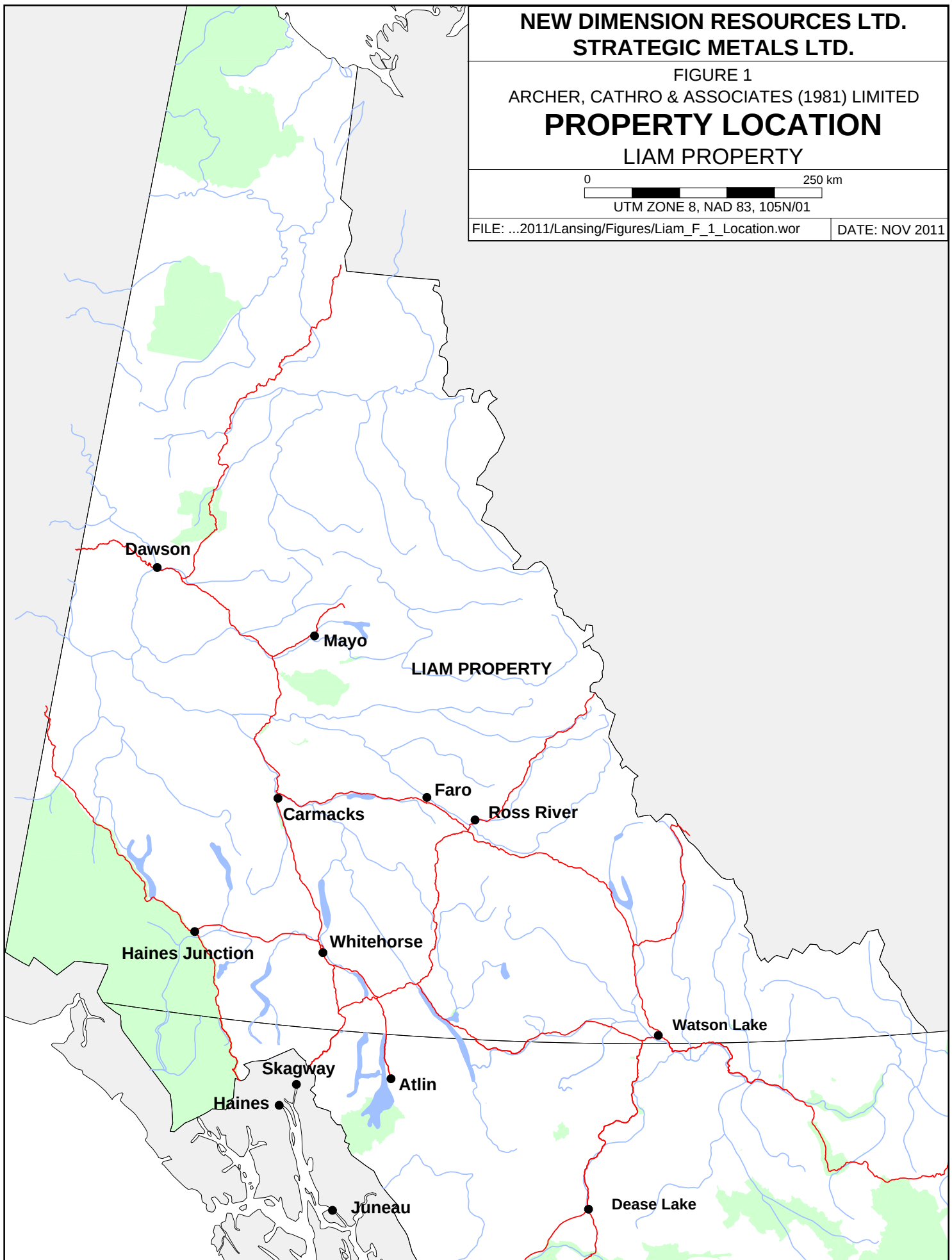
FIGURE 1
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

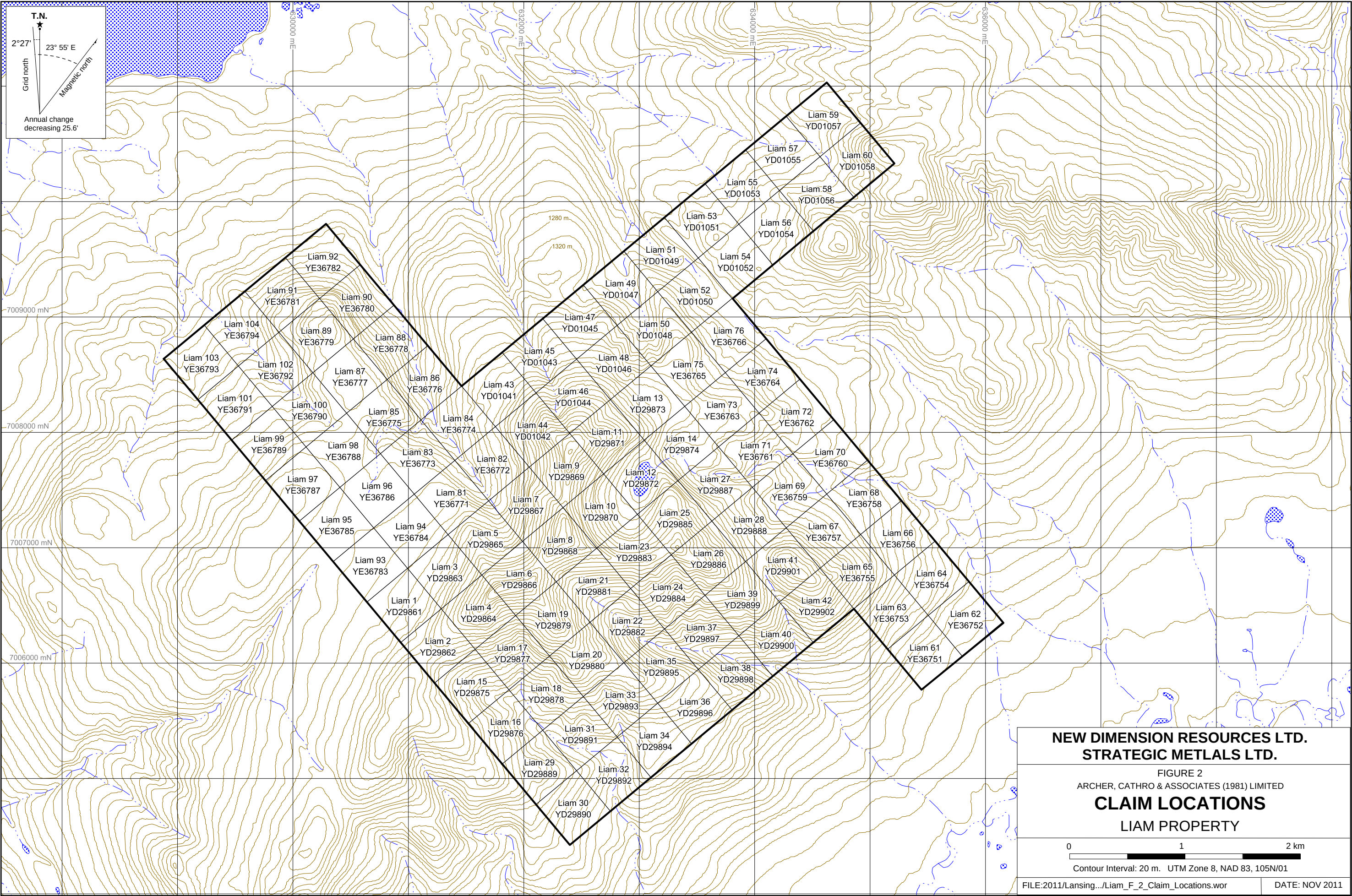
**PROPERTY LOCATION
LIAM PROPERTY**

0 250 km
UTM ZONE 8, NAD 83, 105N/01

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DATE: NOV 2011





bearing hornfelsed sediments were barren. Stream sediment samples returned weak values for silver (up to 0.8 ppm) and copper (up to 84 ppm), moderate values for gold (up to 25 ppb), strong values for arsenic (up to 274 ppm) and antimony (up to 12 ppm). Results from this work are further discussed in the Mineralization and Stream Sediment and Soil Geochemistry Sections. The Squall claims were subsequently allowed to expire.

GEOMORPHOLOGY AND CLIMATE

The Liam property is situated in the Hess Mountains of the Selwyn Range. It is drained by creeks that flow into Husky Dog Creek and Fairweather Lake, which both ultimately connect to the Pacific Ocean via the Yukon River.

The property covers a mountain located five kilometres southeast of Fairweather Lake. Elevations on the property range from about 880 to 1900 m above sea level (asl). Outcrop exposure is locally abundant but is generally restricted to ridge tops, creek cuts and steep slopes. Most of the property lies above treeline, which is at approximately 1500 m asl. Slopes above that elevation are characterized by talus, outcrop and alpine vegetation primarily comprising low grasses and staghorn moss. The density and size of vegetation gradually increases on lower slopes, and the valley floors are treed with fir and spruce. Understorey consists of low shrubs and moss.

Much of the overburden in the region is associated with the most recent Cordilleran ice sheet, the McConnell glaciation, which is believed to have covered south and central Yukon between 26,500 and 10,000 years ago (Yukon Geological Survey, 2010). In this area, the ice sheet generally moved in a northwesterly direction.

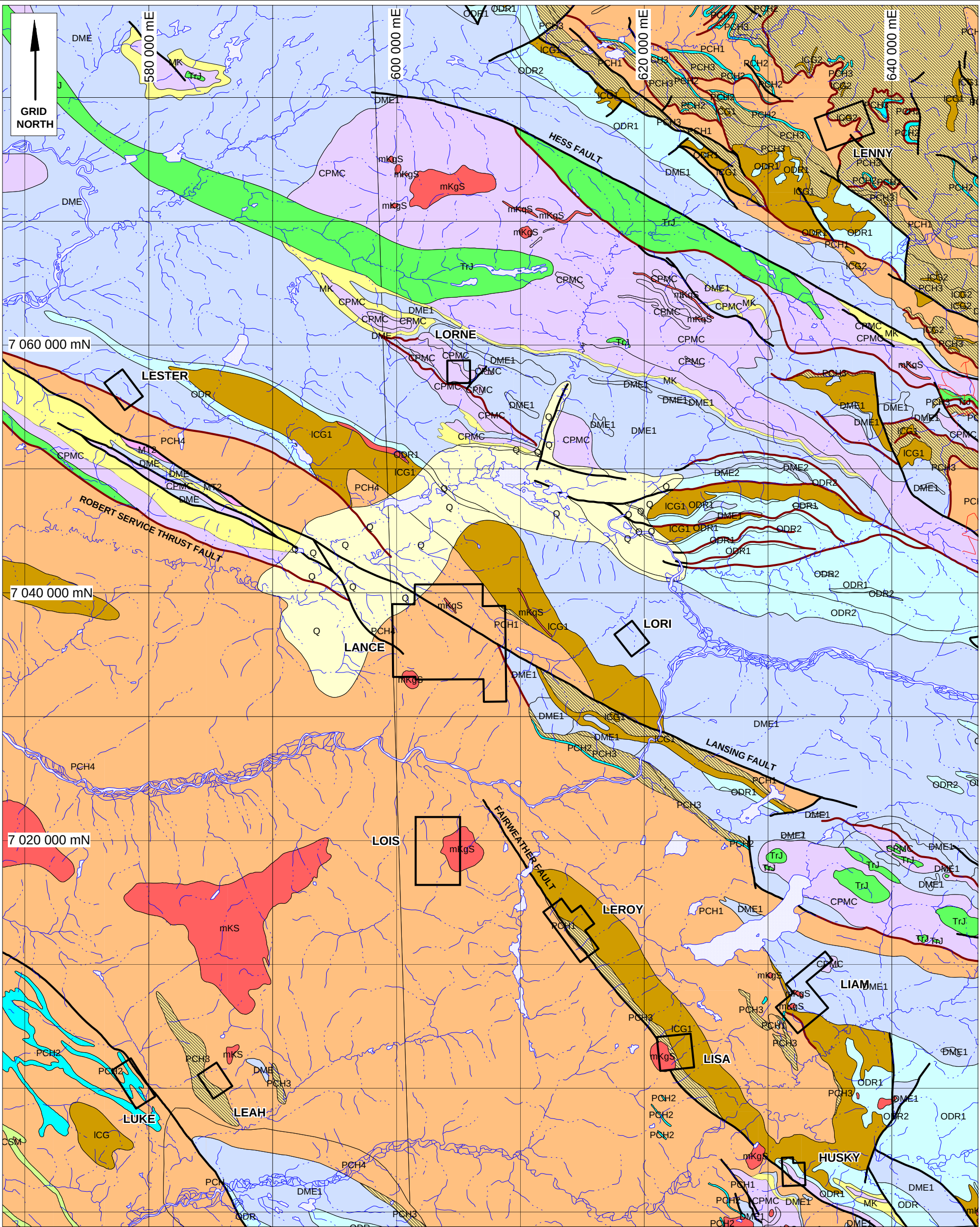
The climate in the Liam property area is typical of northern continental regions with long, cold winters, truncated fall and spring seasons and short, mild summers. The property is mostly snow free from late May to late September.

REGIONAL GEOLOGY

In 1995 and 2003, the GSC and Yukon Geological Survey (YGS) published geological maps of the Lansing Range map sheet (NTS 105N) at 1:125,000 and 1:250,000 scales, respectively (Roots *et.al.*, 1995 and Roots, 2003). In 2003, Gordey and Makepeace incorporated this data as part of a Yukon-wide geological compilation. The following geological descriptions are based on the published data.

The Liam property is located within northern Selwyn Basin (Figure 3), a predominantly off-shelf meta-sedimentary and meta-volcanic sequence that formed on the western margin of the North American craton from Upper Proterozoic to Lower Paleozoic times.

The geology of the Lansing Range map sheet includes seven sedimentary units (Figure 4). The basal sequence of Hyland Group, Gull Lake Formation and Road River Group represents clastic fill and deep water chemical precipitate of Upper Proterozoic and Lower Paleozoic age. The Mid-Paleozoic Earn Group conformably and locally unconformably overlies the basal sequence



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FIGURE 4
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

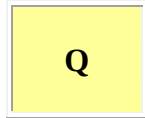
REGIONAL GEOLOGY
LIAM PROPERTY

0 5 10 km
UTM ZONE 8, NAD 83, NTS 105N

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GEOLOGICAL LEGEND TO ACCOMPANY FIGURE 4

QUATERNARY



Q: QUATERNARY

unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluvial silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits

MID-CRETACEOUS



mKS: SELWYN SUITE

plutonic suite of intermediate (g) to more felsic composition (q) and rarely syenitic (y); equivalent felsic dykes (f); complete compositional gradation so that these designations are somewhat arbitrary

q. equigranular to porphyritic (K-feldspar) biotite +/- hornblende +/- muscovite granite, quartz monzonite and granodiorite; porphyritic biotite hornblende granite with large smoky grey quartz phenocrysts and locally K-feldspar phenocrysts (Selwyn Suite)

g. resistant, blocky, fine to coarse grained equigranular to porphyritic (K-feldspar) biotite quartz monzonite and granodiorite and minor quartz diorite; minor leuco-quartz monzonite and syenite (Selwyn Suite)

MIDDLE TO UPPER TRIASSIC



TrJ: JONES LAKE

brown to buff weathering, calcareous fine grained sandstone, argillite and shale; extensive ripple cross-lamination and bioturbation; massive, light grey weathering, fine crystalline, dark grey limestone; minor orange weathering platy limestone (Jones Lake)

CARBONIFEROUS TO PERMIAN



CPMC: MOUNT CHRISTIE

burrowed, interbedded greenish grey cherty shale and green shale; thin to medium bedded, light grey-green to black chert; black siliceous slate and siltstone; minor quartzite, limestone and dolostone; locally abundant, large grey barite nodules (Mount Christie)

MISSISSIPPIAN



MK: KENO HILL

massive to thick bedded quartz arenite; thin to medium bedded quartz arenite interstratified with black shale or carbonaceous phyllite; local scour surfaces and shale intraclasts; locally foliated and lineated (Keno Hill Quartzite)

MISSISSIPPIAN

MT

MT: TAY

mixed, generally fine clastic and carbonate assemblage (1) with locally thick regionally mappable carbonate horizons (2)

2. grey and buff weathering, generally thick bedded to massive, dark grey to black fetid limestone; fine crystalline to cryptocrystalline; commonly bioclastic

DEVONIAN AND MISSISSIPPIAN

DME

DME: EARN

complex assemblage of submarine fan and channel deposits (1), (5) within black siliceous shale and chert (2), (4) and including separated small occurrences of felsic volcanic rocks (3); barite common and many occurrences of stratiform Pb-Zn

1. thin bedded, laminated slate with thin to thickly interbedded fine to medium grained chert-quartz arenite and wacke; thick members of chert pebble conglomerate; black siliceous siltstone; nodular and bedded barite; rare limestone (Earn Gp., Portrait Lake and Prevost)

ORDOVICIAN TO LOWER DEVONIAN

ODR

ODR: ROAD RIVER - SELWYN

black shale and chert (1) overlain by orange siltstone (2) or buff platy limestone (3); locally contains beds as old as Middle Cambrian (4); correlations with basinal strata in Richardson Mountains include: ODR1 with CDR2 (upper part) and ODR2 with CDR4 (Road River Gp.)

1. black, gun-blue, or silvery white weathering black graptolitic shale and black chert; resistant grey weathering, thin to medium bedded, light grey to black, greenish grey or turquoise chert; minor argillaceous limestone (Road River Gp., Duo Lake and Elmer Creek)
2. rusty dark green to orange buff weathering, pyritic, burrowed, thin to thick bedded, argillite and dolomitic siltstone with members or partings of black shale and chert; minor bright orange dolostone (Road River Gp., Steel)

LOWER CAMBRIAN

ICG

ICG: GULL LAKE

dominantly fine clastic assemblage (1) with local volcanic units (2)

1. shale, siltstone and mudstone, locally bioturbated, with minor quartz sandstone; rare green-grey chert; local basal limestone and limestone conglomerate; phyllite to quartz-muscovite-biotite schist (+/-garnet +/-sillimanite +/-staurolite +/-andalusite) (Gull Lake)

2. dark green massive to fragmental mafic meta-volcanic and volcanoclastic rocks; siltstone and argillite

UPPER PROTEROZOIC TO LOWER CAMBRIAN

PCH

PCH: HYLAND

consists upwards of coarse turbiditic clastics (1), limestone (2) and fine clastics typified by maroon and green shale (3); may include younger (4) units; includes scattered mafic volcanic rocks (5) (Hyland Gp.)

PCH2

1. thin to thick bedded, brown to pale green shale, fine to coarse grained quartz-rich sandstone, grit, and quartz-pebble conglomerate; minor argillaceous limestone; phyllite, quartzofeldspathic and micaceous psammite, gritty psammite and minor marble (Hyland Gp., Yusezyu)
2. grey weathering, dark grey to grey white, thin to thick bedded, very fine crystalline limestone, locally sandy; calc-silicate and marble; may locally include carbonate members within (1) or (4) (Hyland Gp., Algae Lake , limestone member of Yusezyu)
3. distinctive, recessive, maroon weathering, interbedded maroon and apple-green slate; "Oldhamia" trace fossils; rare grey chert; locally basal member and interbeds of quartz siltstone, sandstone and quartz-pebble conglomerate (Hyland Gp., Narchilla , Senoah , Arrowhead Lake)
4. quartzose clastic rocks as described in (1); mostly(?) equivalent to (1) but may include younger units (Hyland Gp., mostly(?) Yusezyu)

and dominantly consists of black shale and marine conglomerate (Roots, 2003). The younger strata have more limited extent and comprise Mississippian to Triassic sedimentary successions (Keno Hill Quartzite, Mount Christie Group and Jones Lake Formation). Numerous Mid-Cretaceous Selwyn Suite igneous bodies cut the sedimentary package throughout the region. A large area at the centre of the map sheet is covered by Quaternary unconsolidated glacial, glaciofluvial and glaciolacustrine deposits. The units are described in Table I.

Table I – Lithological Units (after Gordey and Makepeace, 2003)

Unit Name	Map Name	Age	Description
Q	Quaternary	Quaternary	Unconsolidated glacial, glaciofluvial and glaciolacustrine deposits; fluvial silt, sand, and gravel, and local volcanic ash, in part with cover of soil and organic deposits.
mKgS	Selwyn Suite	Mid-Cretaceous	Mainly hornblende and hornblende/biotite syenite, commonly porphyritic (potassium feldspar phenocrysts), uneven textured, mostly medium grained, locally fine or coarse grained; minor diorite; hornblende syenite.
TrJ	Jones Lake Formation	Triassic	Brown to buff weathering, calcareous fine grained sandstone, argillite and shale; extensive ripple cross-lamination and bioturbation; massive, light grey weathering, fine crystalline, dark grey limestone; minor orange weathering platy limestone.
CPMC	Mount Christie Formation	Carboniferous to Permian	Burrowed, interbedded greenish grey cherty shale and green shale; thin to medium bedded, light grey-green to black chert; black siliceous slate and siltstone; minor quartzite, limestone and dolostone; locally abundant, large grey barite nodules.
MK	Keno Hill Quartzite	Mississippian	Massive to thick bedded quartzarenite; thin to medium bedded quartzarenite interstratified with black shale or carbonaceous phyllite; local scour surfaces and shale intraclasts; locally foliated and lineated.
MT2	Tay Formation	Mississippian	Grey and buff weathering, generally thick bedded to massive, dark grey to black fetid limestone; fine crystalline to cryptocrystalline; commonly bioclastic.
DME	Earn Group	Devonian and Mississippian	Thin bedded, laminated slate with thin to thickly interbedded fine to medium grained chert-arenite and wacke; thick members of

			chert pebble conglomerate; black siliceous siltstone; nodular and bedded barite; rare limestone.
ODR1	Road River Group	Ordovician to Lower Devonian	Black, gun-blue, or silvery white weathering black graptolitic shale and black chert; resistant grey weathering, thin to medium bedded, light grey to black, greenish grey or turquoise chert; minor argillaceous limestone.
ICG1	Gull Lake Formation	Lower Cambrian	Shale, siltstone and mudstone, locally bioturbated, with minor quartz sandstone; rare green-grey chert; local basal limestone and limestone conglomerate; phyllite to quartz-muscovite-biotite schist (+/-garnet +/-sillimanite +/-staurolite +/-andalusite).
PCH (undivided)	Hyland Group	Upper Proterozoic to Lower Cambrian	Consists upwards of coarse turbiditic clastics (1), limestone (2) and fine clastics typified by maroon and green shale (3).
PCH1			Thin to thick bedded, brown to pale green shale, fine to coarse grained quartz-rich sandstone, grit, and quartz-pebble conglomerate; minor argillaceous limestone; phyllite, quartzofeldspathic and micaceous psammite, gritty psammite and minor marble.
PCH2			Grey weathering, dark grey to grey white, thin to thick bedded, very fine crystalline limestone, locally sandy; calc-silicate and marble.
PCH3			Distinctive, recessive, maroon weathering, interbedded maroon and apple-green slate; "Oldhamia" trace fossils; rare grey chert; locally basal member and interbeds of quartz siltstone, sandstone and quartz-pebble conglomerate.

Bedding and structure on the Lansing Range map sheet are dominated by a northwesterly trend. Significant thrust, strike-slip and extensional faults are present throughout the map sheet. The Liam property lies between two large-scale northwest trending, high-angle faults (informally named the Lansing and Fairweather faults for the purposes of this report). The Lansing Fault is located 16 km northeast of the property, while the Fairweather Fault lies 11 km to the southwest. A southwest-dipping thrust fault is situated six kilometres northeast of the property. A smaller-scale thrust fault crosses the southern part of the property. All of the major faults pre-date Mid-Cretaceous plutonism, as evidenced by cross-cutting relationships and several plugs that are emplaced along, but not offset by the Fairweather Fault. Bedding is variable throughout the map sheet, but generally trends northwesterly, and dips moderately to the southwest.

PROPERTY GEOLOGY

Viceroy Exploration (Schulze, 1998) and New Dimension conducted only limited geological mapping on the Liam property. This work focussed on confirming the accuracy of the GSC's regional maps (Gordey and Makepeace, 2003). The following geological descriptions are based on the GSC's data and observations made by Viceroy Exploration and New Dimension.

The Liam property is underlain by a basement of Hyland Group, which is exposed in the western part of claim block (Figure 5). Hyland Group is conformably overlain by Gull Lake Formation to the east. These units are also juxtaposed against one another along a northwest-trending thrust fault that crosses the south part of the property. Gull Lake Formation is unconformably overlain by Earn Group further to the east. In the northeast corner of the property, a relatively small body of Carboniferous to Permian Mount Christie Formation overlies Earn Group.

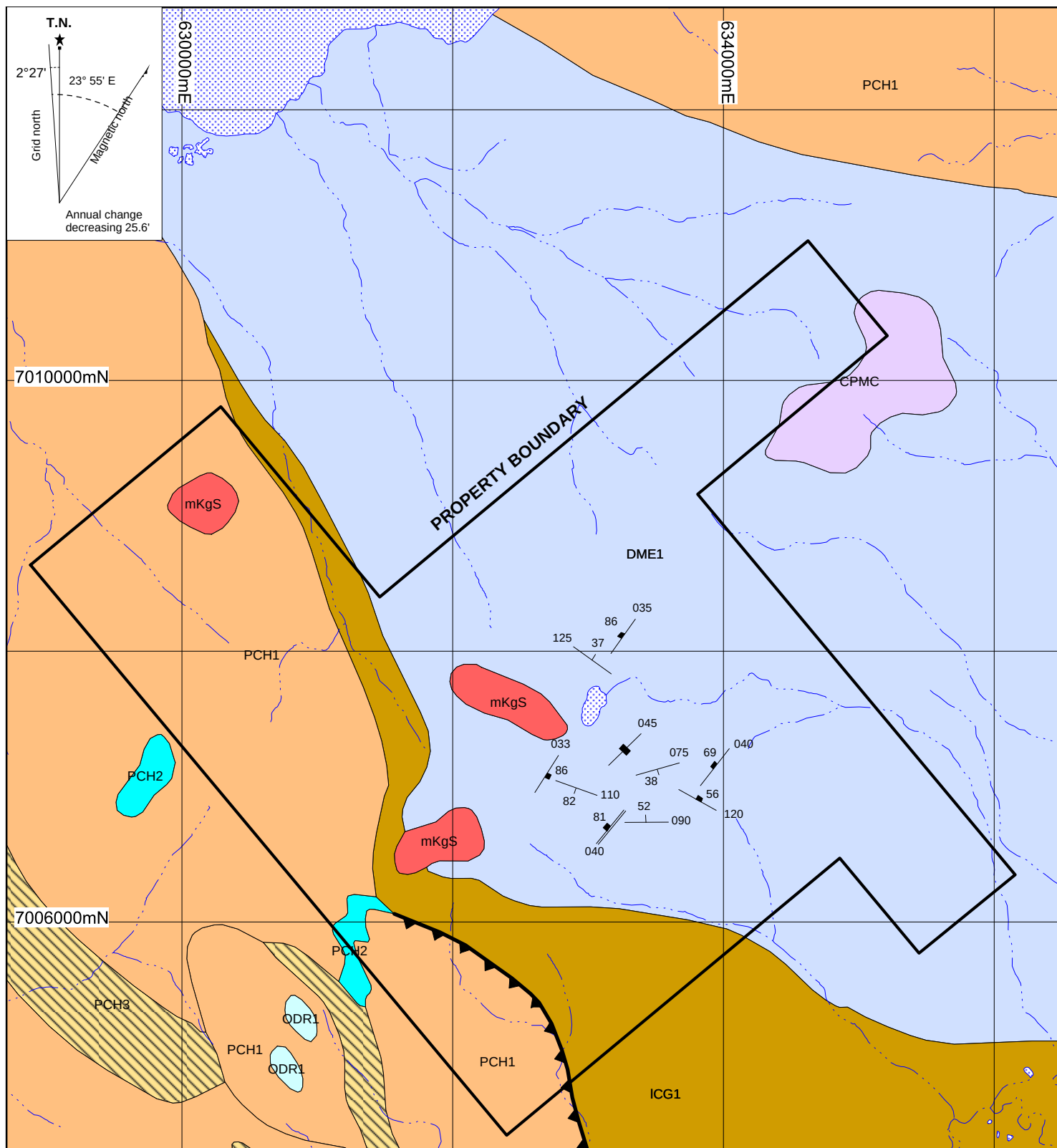
Three small Mid-Cretaceous Selwyn Suite biotite quartz monzonite plugs cut Hyland Group, Gull Lake Formation and Earn Group in the central and western parts of the property. The two plugs located near the centre of the property caused extensive hornfelsing of Earn Group black shale, siltstone and conglomerate. The metamorphic aureoles are characterized by weak pyritization and extensive rusty weathering of the metasedimentary rocks. Calc-silicate alteration is present within narrow bands of calcareous sediments adjacent to these plugs. Several east-southeast trending dykes have been mapped along the eastern margins of the central plugs. These dykes are aplites or feature compositions and textures similar to the plugs. No mapping has been carried out in the vicinity of the third plug, which lies to the northwest.

Selwyn Suite intrusive bodies in this area have little or no aeromagnetic expression due to their reduced nature (Roots, 2003 and Lefebvre and Hart, 2005). The plugs on the Liam property are small and likely represent the upper portion of a larger, buried intrusion. A regional aeromagnetic map compiled by the YGS demarcates a strong, positive magnetic anomaly within centre of the property (Yukon Geological Survey, 2011). This anomaly likely represents the hornfelsed country rocks that lie above and adjacent to the intrusion.

Bedding orientations are variable on the property. They typically strike southeasterly to east-northeasterly and dip moderately to the north or south. Fractures primarily strike northeasterly and dip steeply to the northwest.

MINERALIZATION

Viceroy Exploration collected 13 rock samples within the metamorphic aureoles on the east side of the two central intrusive plugs. New Dimension re-prospect this area and extended the coverage to the north and southwest to assess more of the metamorphic aureoles. It collected another 21 rock samples. Sample locations are plotted on Figure 6, while results from both programs for gold, arsenic, tin, antimony, bismuth, copper, silver, lead, zinc, tellurium, indium and molybdenum are plotted on Figures 7 to 18, respectively (no historical values are available for tin, tellurium, indium or molybdenum). Sampling and Analytical Procedures are provided in Appendix II, Rock Sample Descriptions appear in Appendix III and Certificates of Analysis are given in Appendix IV.



- Mid-Cretaceous (mKgS)
Selwyn Suite - Hornblende and hornblende/biotite syenite
- Carboniferous to Permian (CPMC)
Mount Christie Formation - Cherty shale and green shale
- Devonian and Mississippian (DME1)
Earn Group - Slate and chert-quartz arenite and wacke
- Ordovician to Lower Devonian (ODR1)
Road River Group - Shale and black chert
- Lower Cambrian (ICG1)
Gull Lake - Shale, siltstone and mudstone
- Upper proterozoic to Lower Cambrian (PCH1, 2, 3)
Hyland Group - Consists upwards of coarse turbiditic clasts (1), limestone (2) and fine clastics typified by maroon and green shale (3)
- Strike and dip of bedding
- Strike and dip of fracture (double line indicates vein)
- Thrust fault

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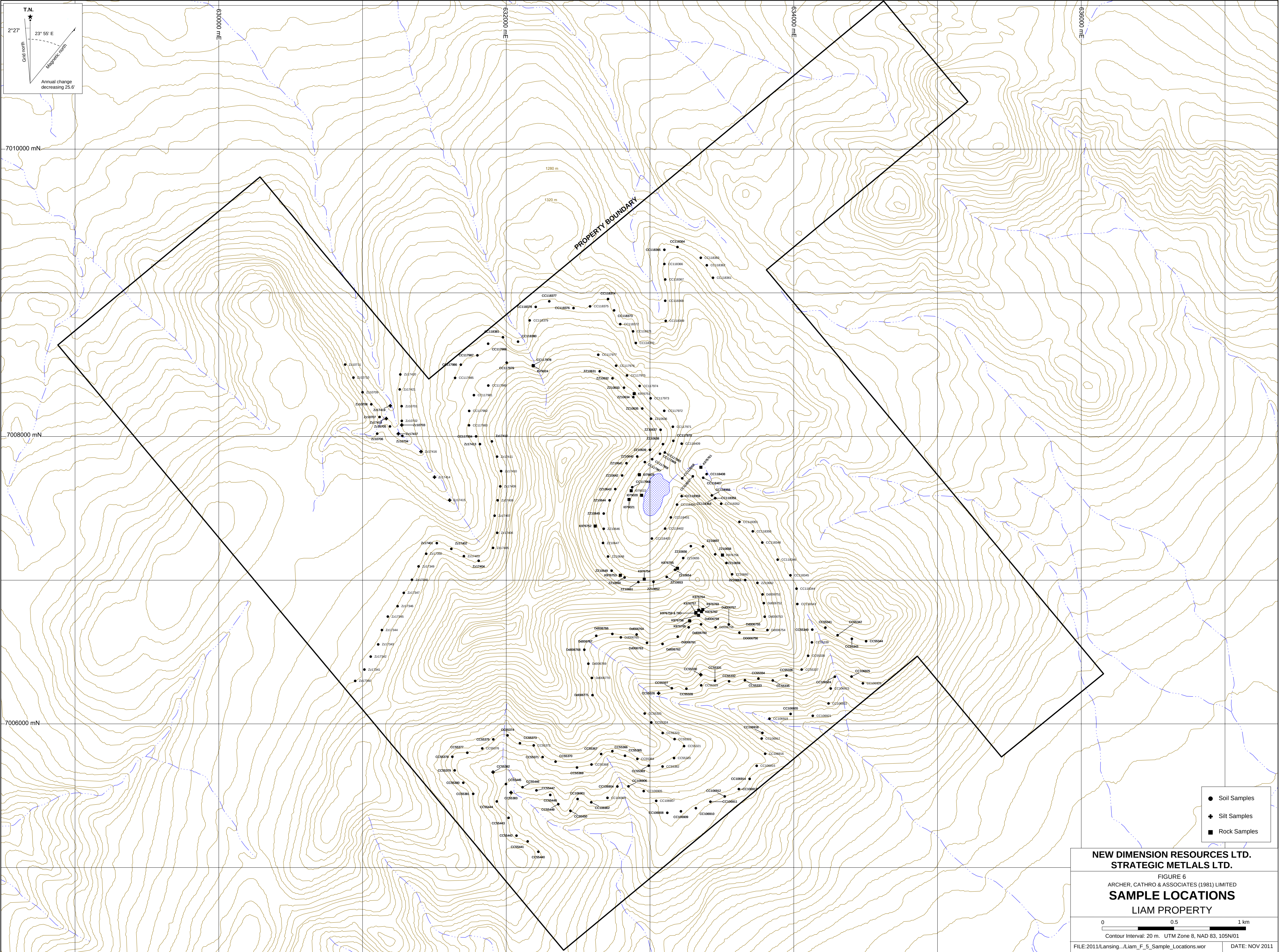
FIGURE 5 ARCHER, CATHRO & ASSOCIATES (1981) LIMITED **PROPERTY GEOLOGY** LIAM PROPERTY

0 1 km

UTM ZONE 8, NAD 83, 105N/01

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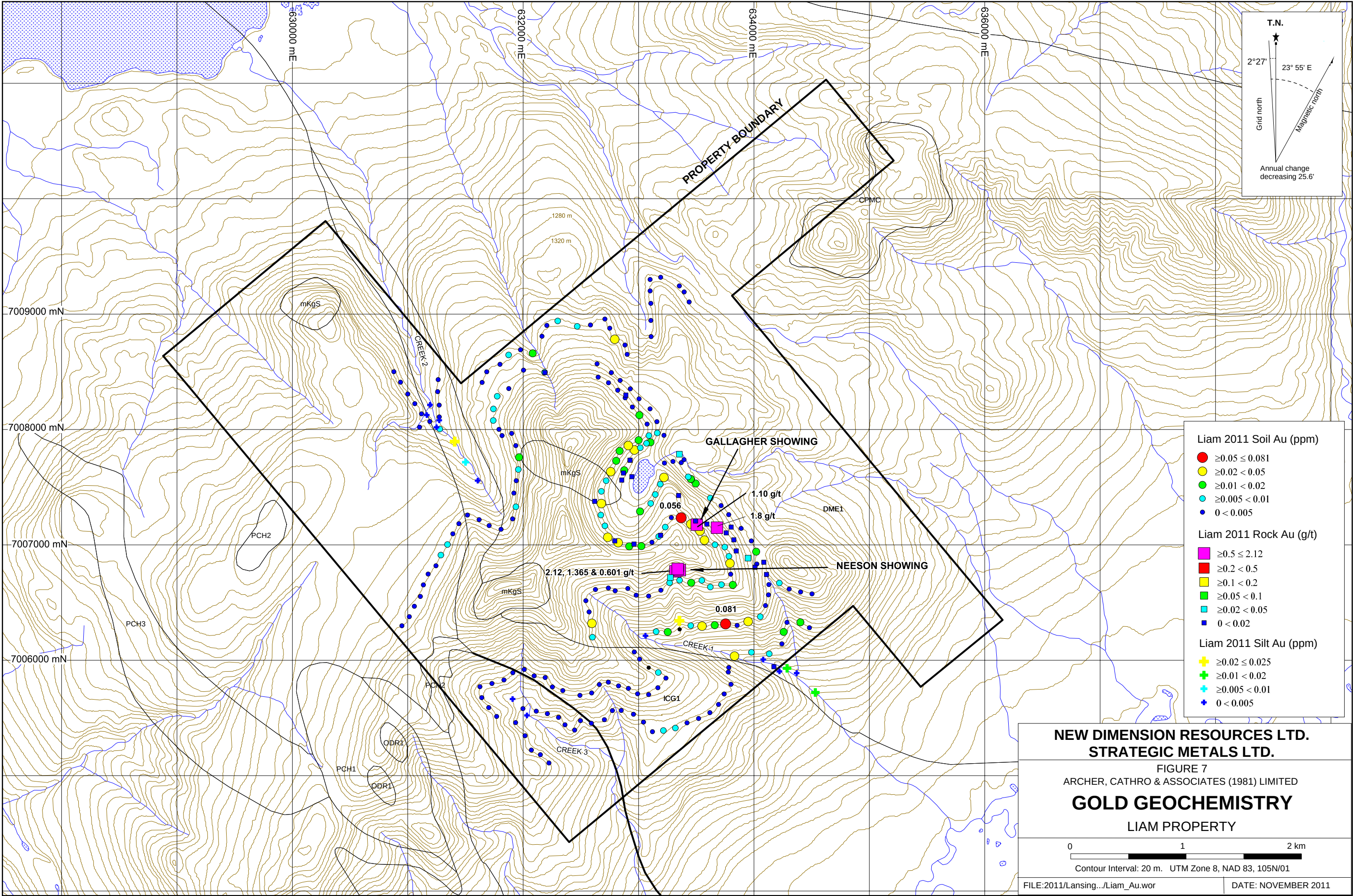


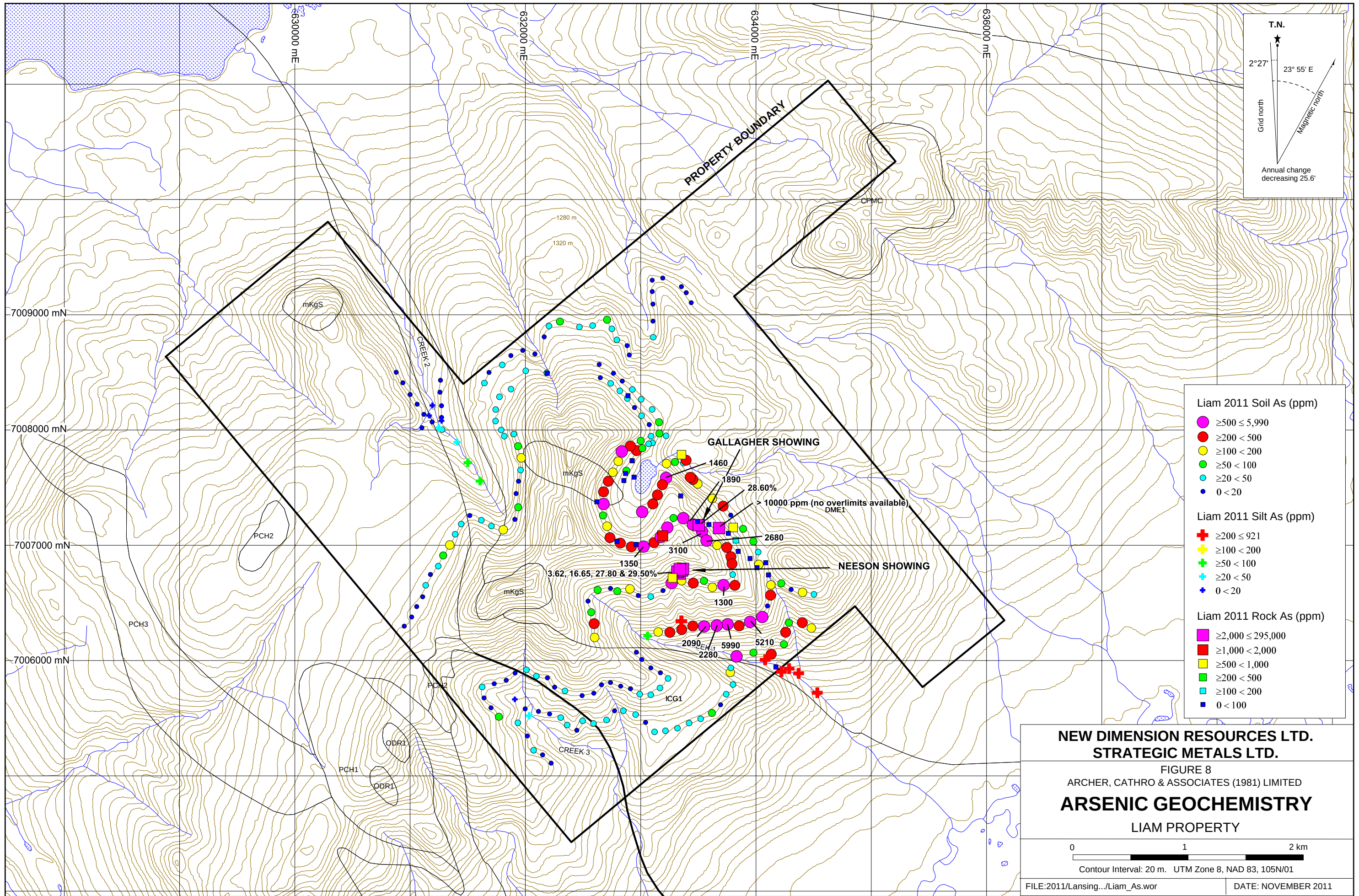
**NEW DIMENSION RESOURCES LTD.
STRATEGIC METALS LTD.**

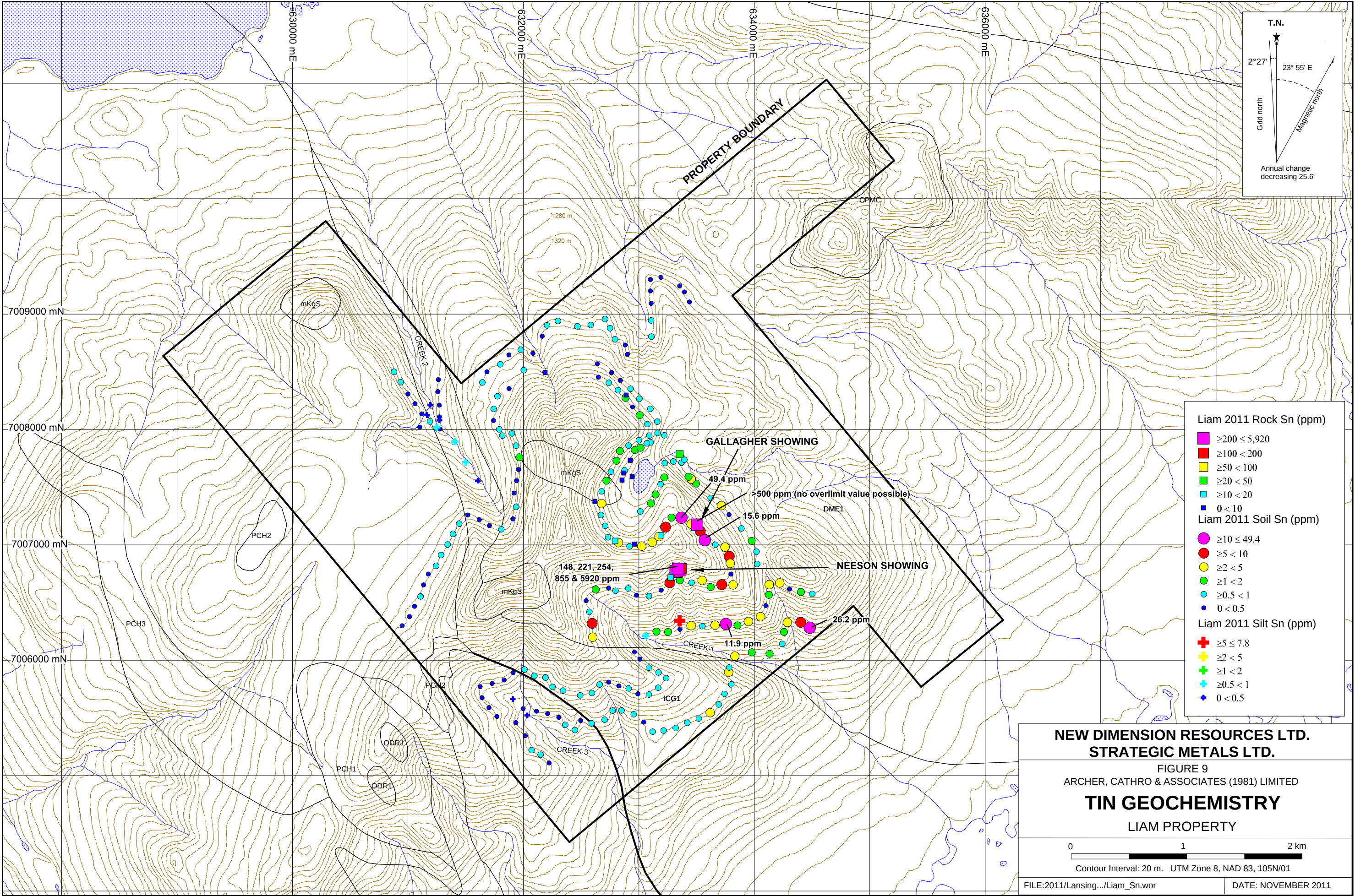
FIGURE 6
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SAMPLE LOCATIONS
LIAM PROPERTY

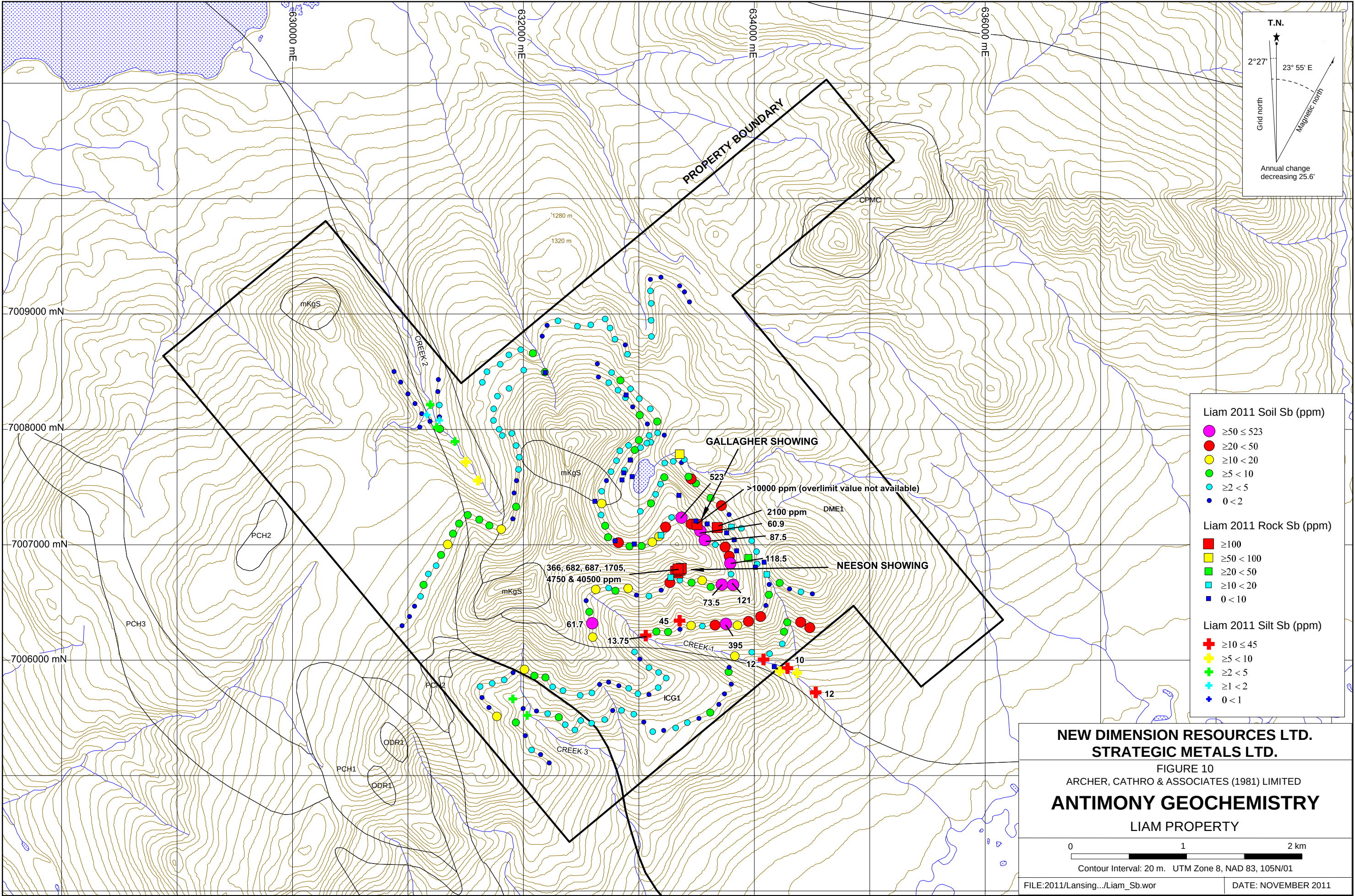
0 0.5 1 km
Contour Interval: 20 m. UTM Zone 8, NAD 83, 105N/01

FILE:2011\Lansing...Liam_F_5_Sample_Locations.wor DATE: NOV 2011







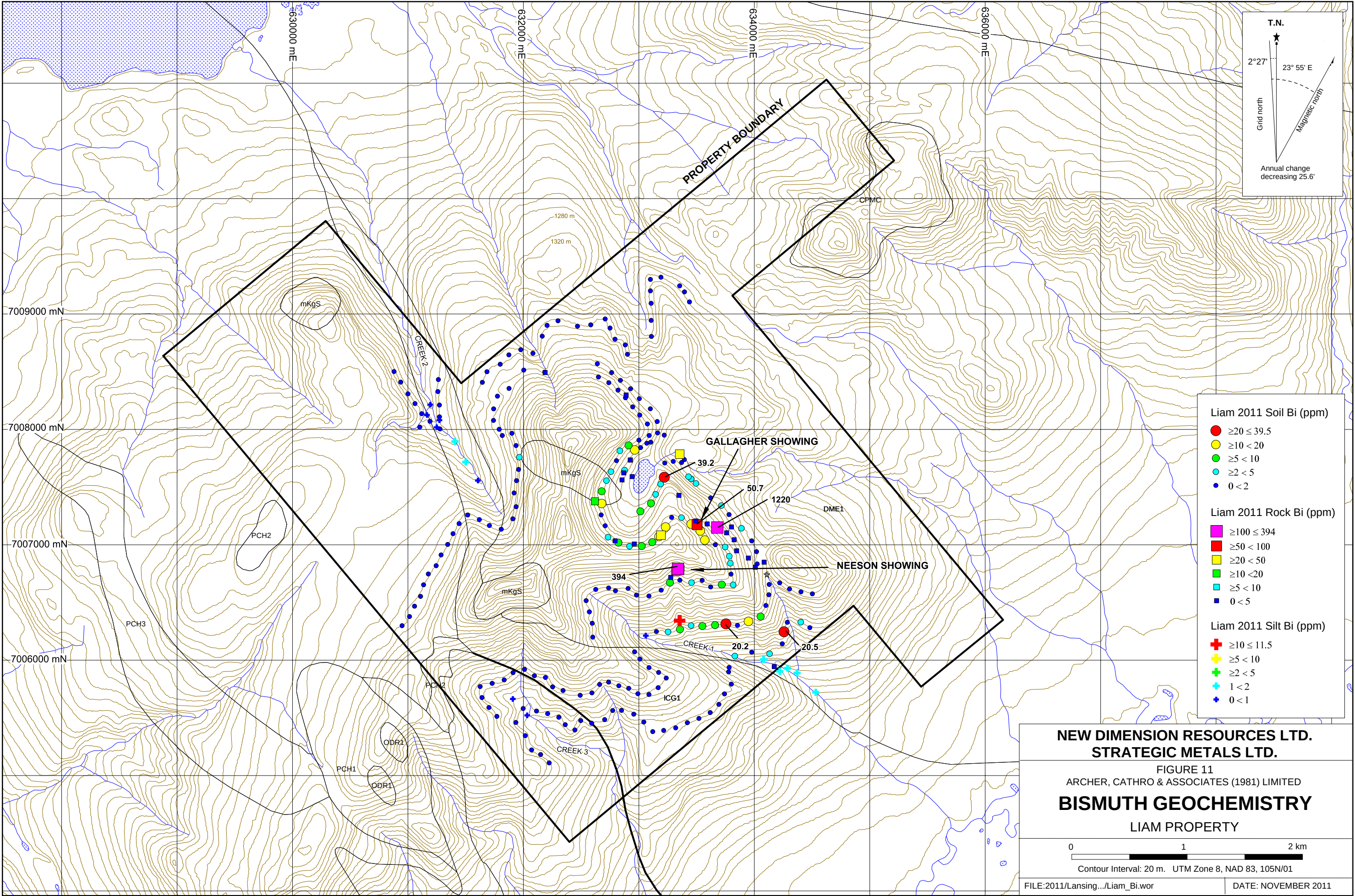


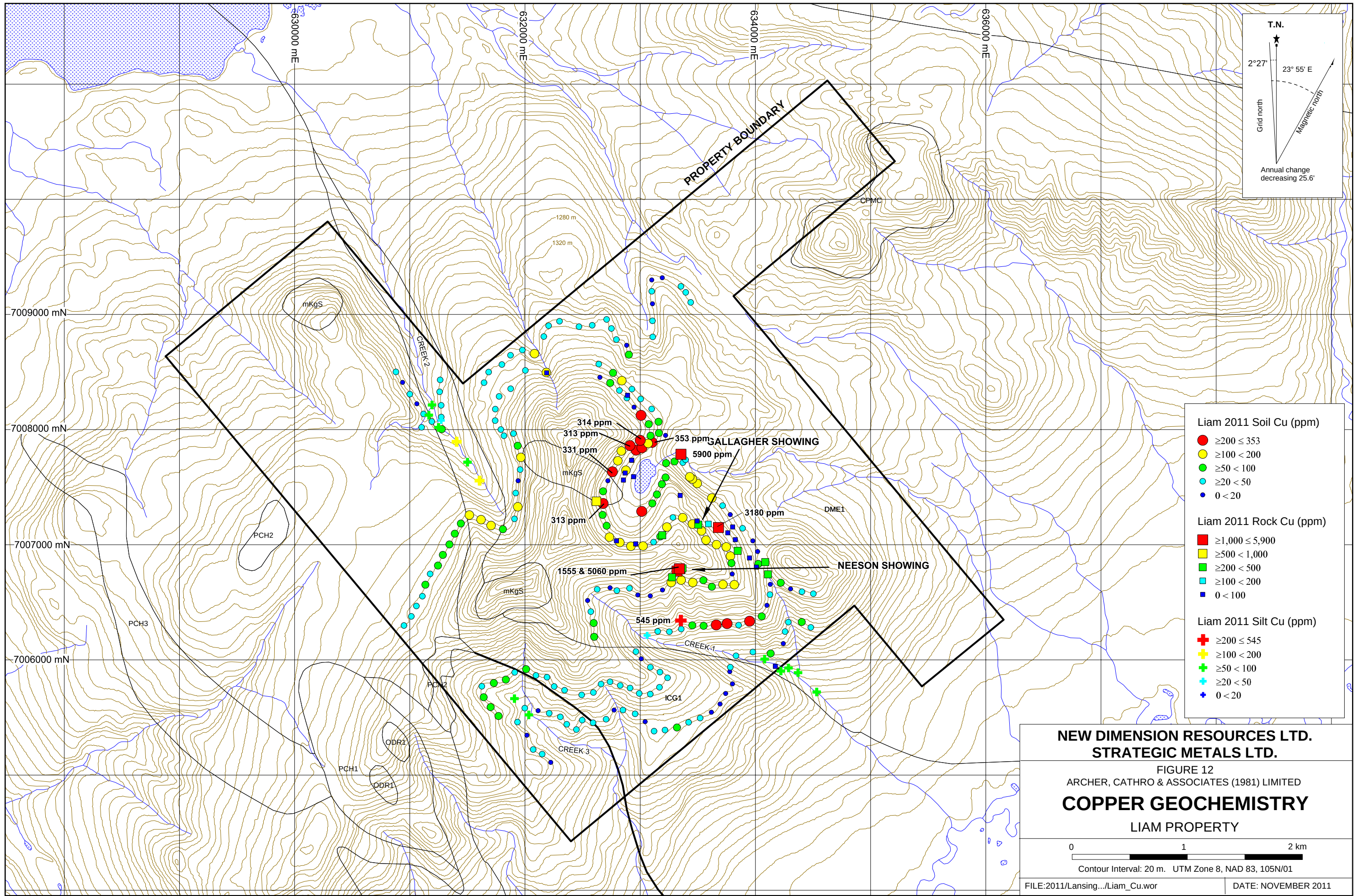
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FIGURE 10
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ANTIMONY GEOCHEMISTRY

LIAM PROPERTY



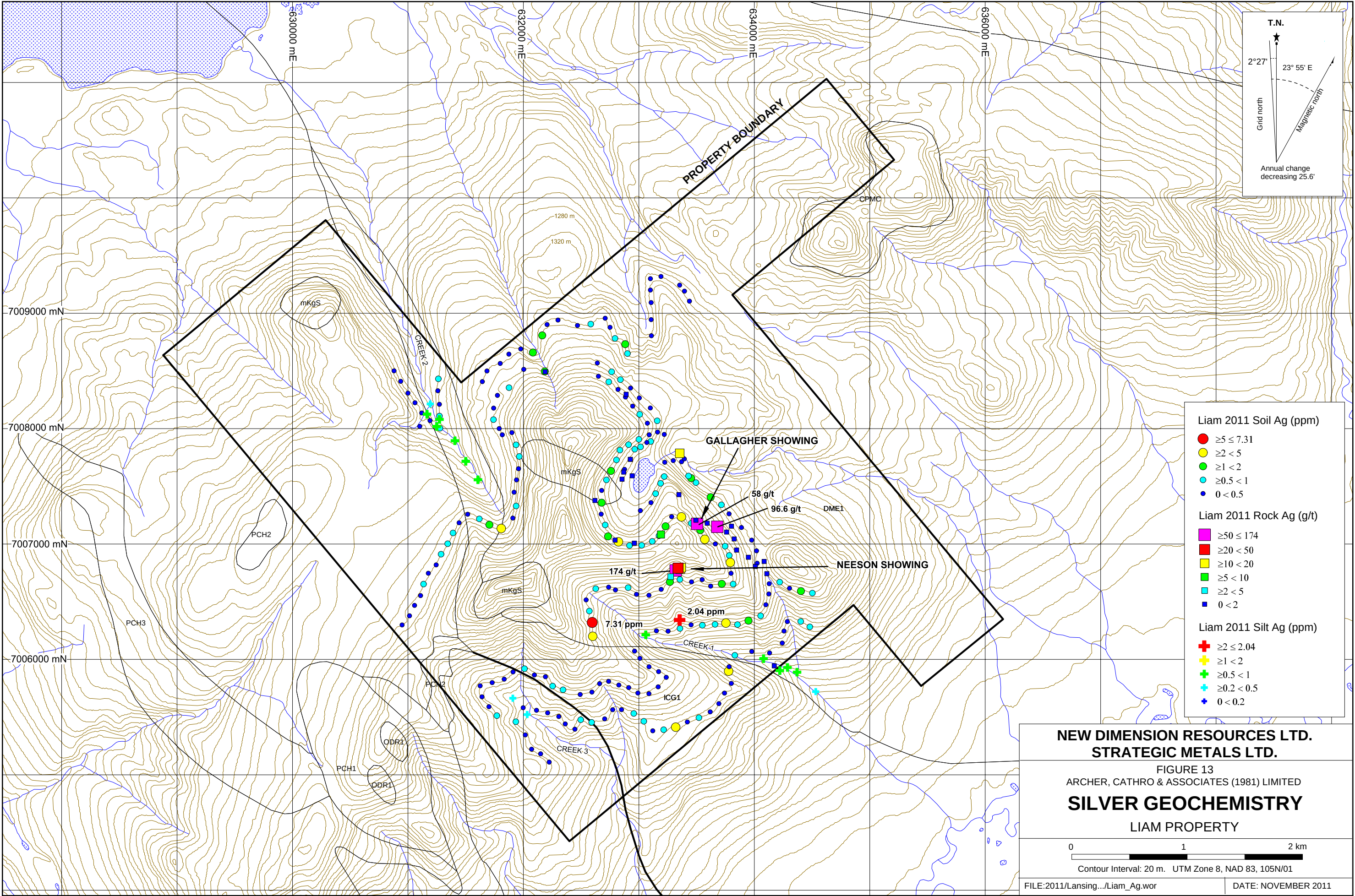


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FIGURE 12
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

COPPER GEOCHEMISTRY

LIAM PROPERTY



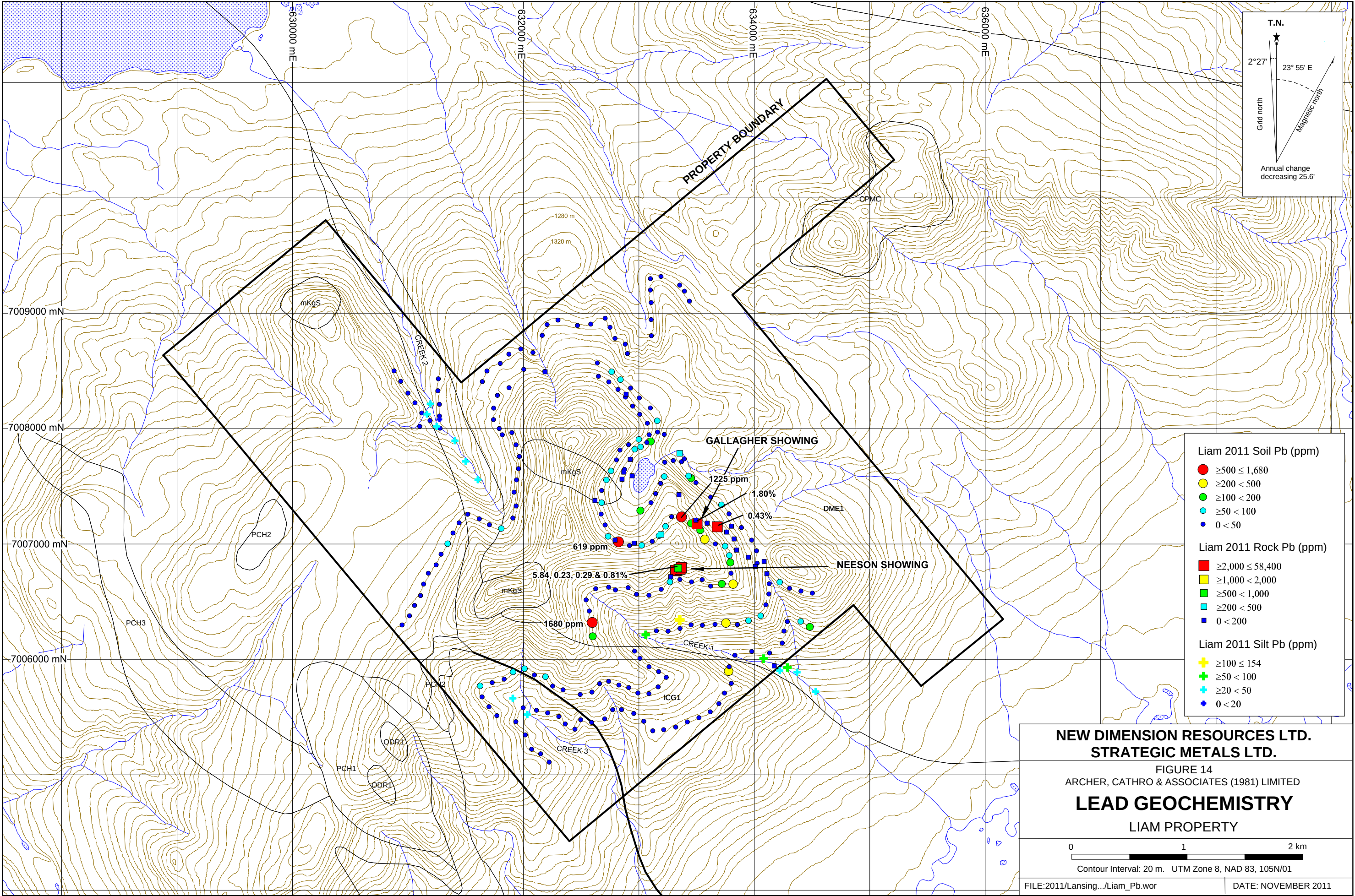
NEW DIMENSION RESOURCES LTD.
STRATEGIC METALS LTD.

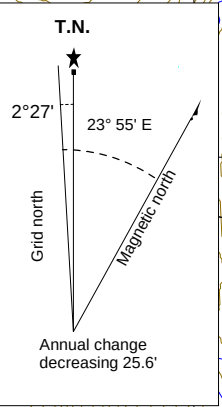
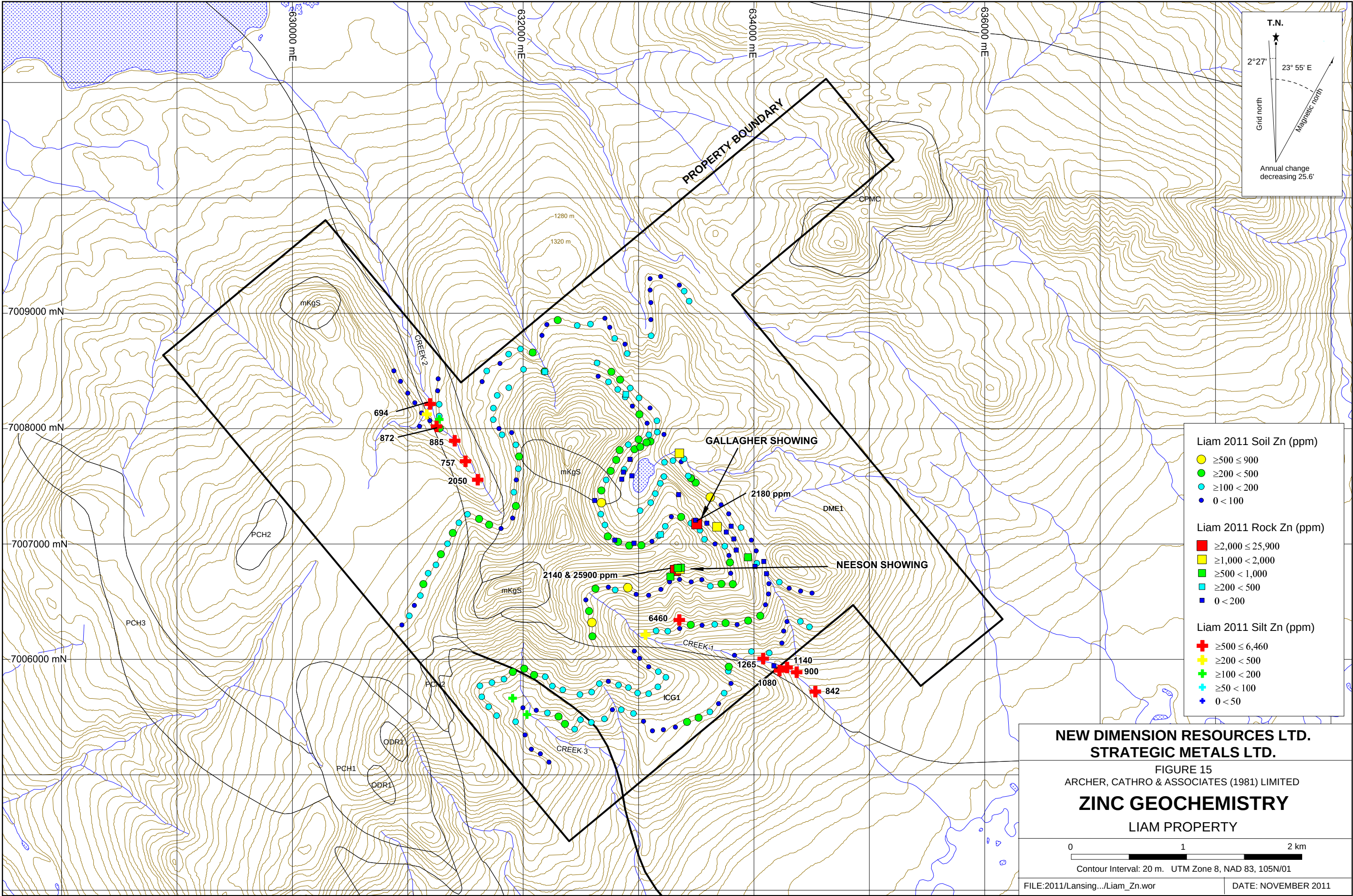
FIGURE 13
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
SILVER GEOCHEMISTRY
LIAM PROPERTY

012 km

Contour Interval: 20 m. UTM Zone 8, NAD 83, 105N/01

FILE:2011/Lansing.../Liam_Ag.worDATE: NOVEMBER 2011





Liam 2011 Soil Zn (ppm)

- ≥500 ≤ 900
- ≥200 < 500
- ≥100 < 200
- 0 < 100

Liam 2011 Rock Zn (ppm)

- ≥2,000 ≤ 25,900
- ≥1,000 < 2,000
- ≥500 < 1,000
- ≥200 < 500
- 0 < 200

Liam 2011 Silt Zn (ppm)

- ≥500 ≤ 6,460
- ≥200 < 500
- ≥100 < 200
- ≥50 < 100
- 0 < 50

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STRATEGIC METALS LTD.**

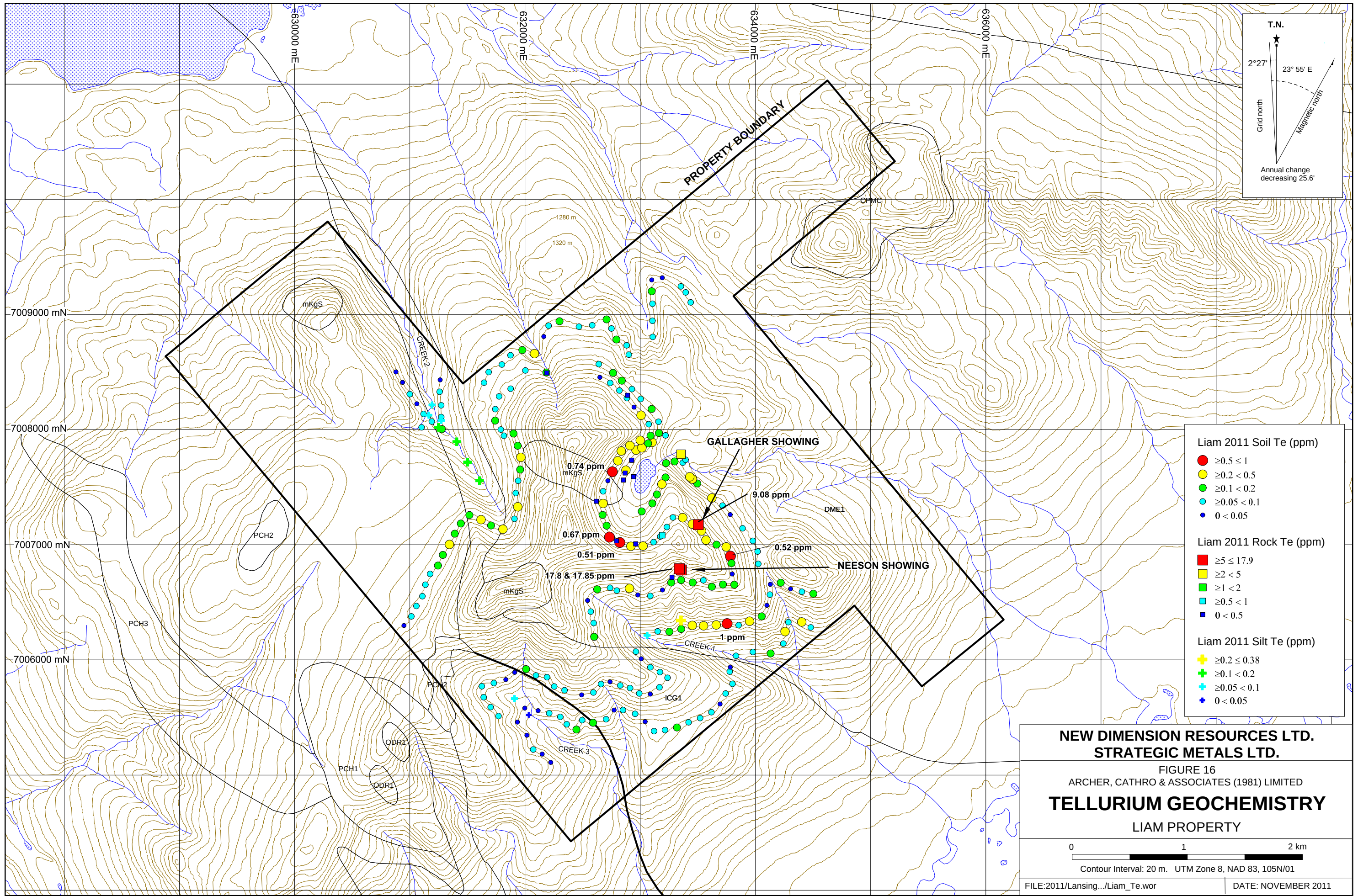
FIGURE 15
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

ZINC GEOCHEMISTRY
LIAM PROPERTY

0 1 2 km

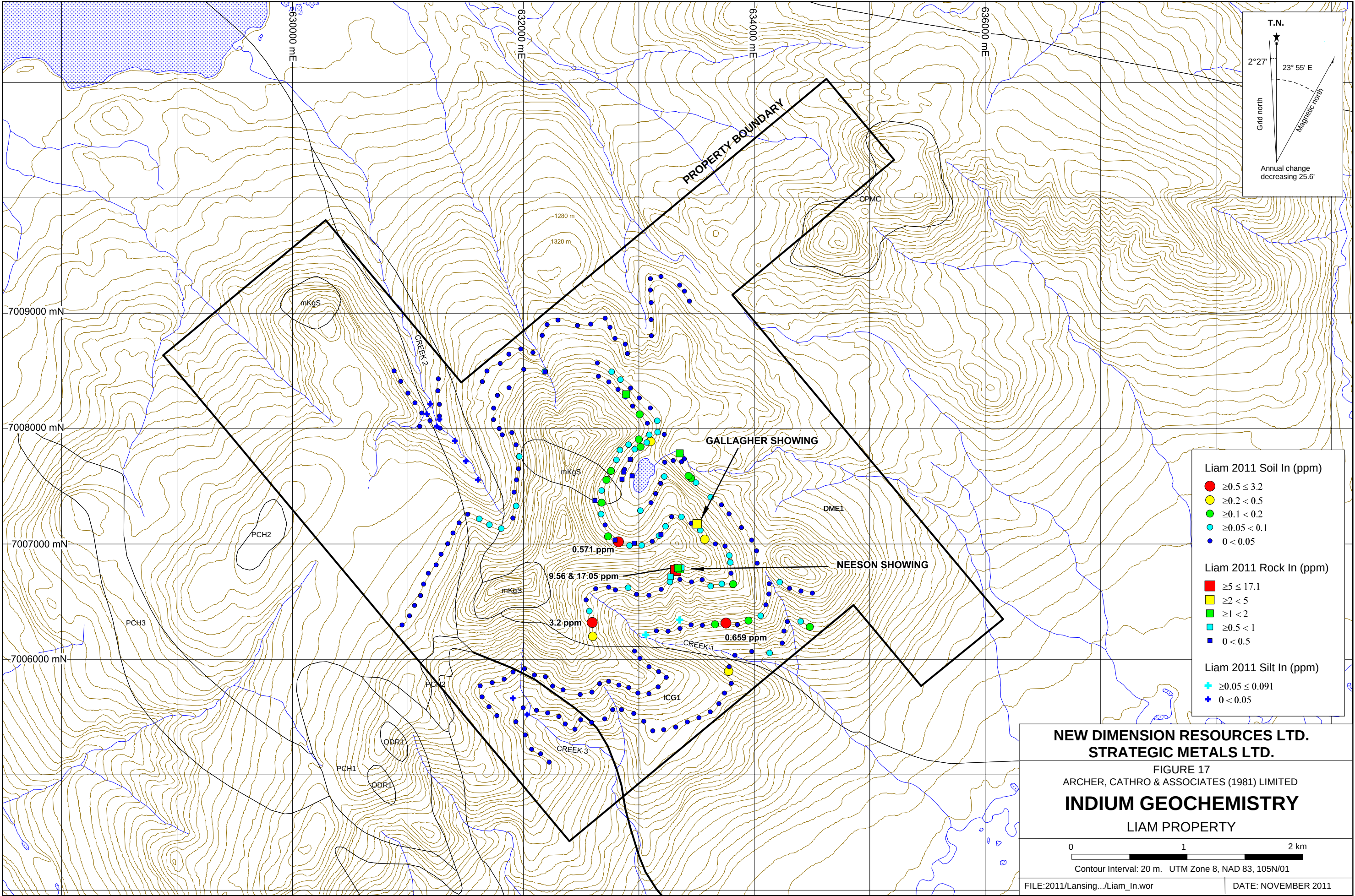
Contour Interval: 20 m. UTM Zone 8, NAD 83, 105N/01

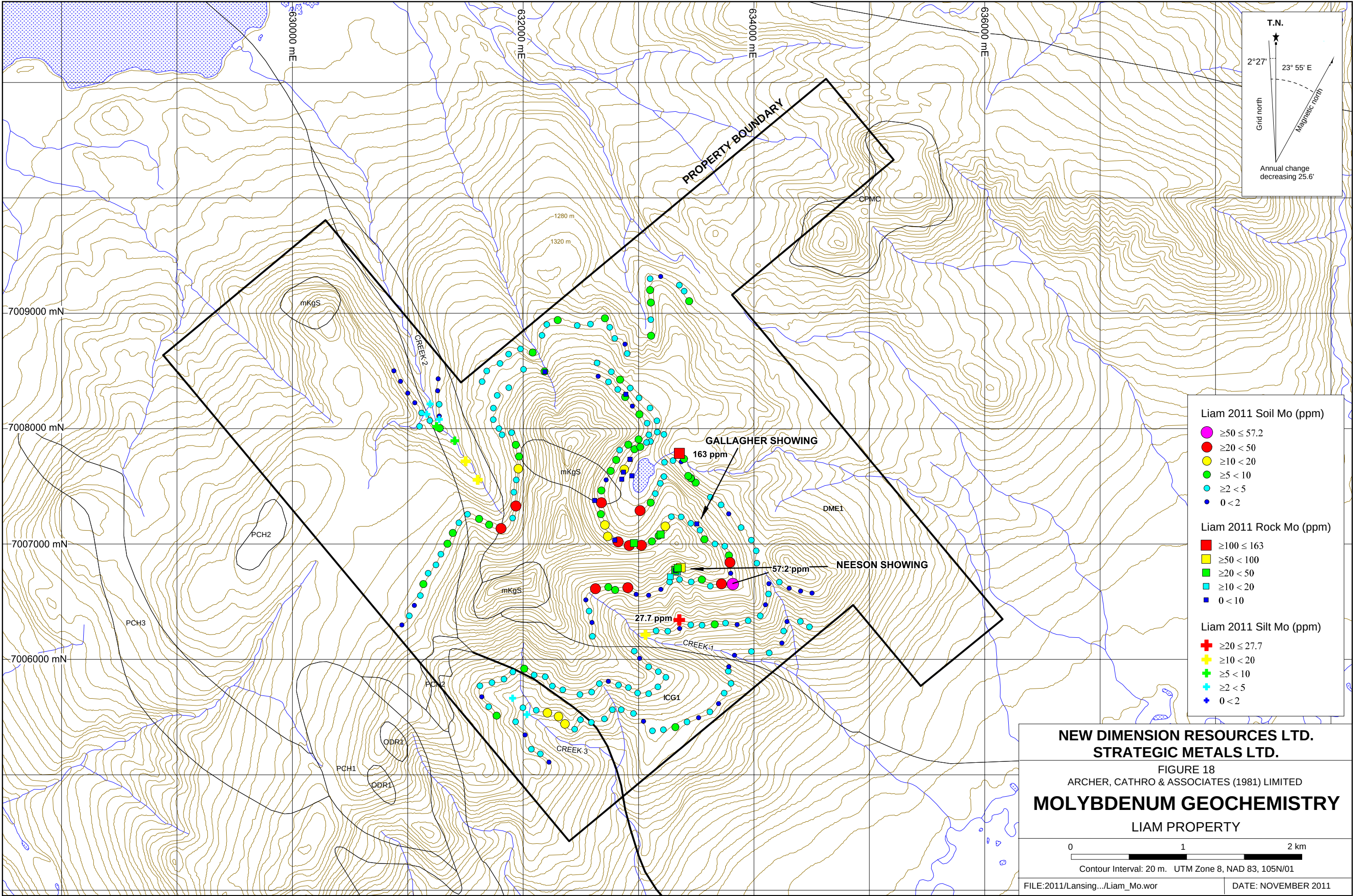
FILE:2011/Lansing.../Liam_Zn.wor DATE: NOVEMBER 2011



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FIGURE 16
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
TELLURIUM GEOCHEMISTRY
LIAM PROPERTY





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FIGURE 18
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
MOLYBDENUM GEOCHEMISTRY
LIAM PROPERTY

012 km

Contour Interval: 20 m. UTM Zone 8, NAD 83, 105N/01

FILE:2011\Lansing.../Liam_Mo.wor

DATE: NOVEMBER 2011

Viceroy Exploration discovered a set of narrow quartz-arsenopyrite veins (Gallagher Showing) located at the end of a ridge, 900 m to the southeast of the nearest pluton. Samples from these veins yielded 0.93 and 1.8 g/t gold (Schulze, 1998). The veins are hosted in rusty weathering, strongly hornfelsed, pyritiferous siliciclastic members of the Earn Group. New Dimension collected a sample of limonite with a one centimetre wide band of arsenopyrite 150 m upslope from Viceroy Exploration's samples. It returned 1.10 g/t, 28.60% arsenic, greater than 500 ppm tin (no overlimit value possible due to limited size of sample), 370 ppm copper, 58 g/t silver, 50.7 ppm bismuth, 1.80% lead, 0.22% zinc and greater than 10,000 ppm antimony (no overlimit value possible).

Both Viceroy Exploration and New Dimension collected several samples of the hornfelsed host rocks. These samples yielded subdued values for all elements of interest.

In 2011, New Dimension discovered a second area of arsenopyrite-bearing quartz veins and skarn horizons (Neeson Showing) about 450 m southwest of the Gallagher Showing. The arsenopyrite varies from weakly disseminated to semi-massive. Minor malachite coats some weathered skarn surfaces. The Neeson Showing is hosted in hornfelsed Earn Group on a steep south-facing slope. The full extent of this showing and its mineralogical controls could not be determined due to time and weather constraints; however, mineralization was traced along a 55 m strike length. The veins appear to follow the general northeasterly strike of fractures on the property. Both aplite and quartz monzonite dykes were observed within this area.

The Neeson Showing yielded strongly anomalous values for all of the elements commonly associated with reduced intrusion-related showings elsewhere in Yukon, with the notable exception of tungsten. Samples taken from skarn horizons are generally lower grade than those from sulphide-bearing veins. The most significant results from both types of samples are listed in Table II.

Table II – 2011 Rock Samples Results from the Neeson Zone

Sample	Type	Au (g/t)	As (%)	Sn (ppm)	Cu (ppm)	Ag (g/t)	Bi (ppm)	Pb (%)	Zn (%)	Sb (ppm)
K976759	Vein	0.287	3.62	859	681	22.8	18.15	0.81	0.21	4,750
K976760	Vein	2.120	16.65	5,920	5,060	174	22.1	5.84	2.59	40,500
K976762	Vein	1.365	27.80	168.5	325	12.25	11.95	0.29	0.11	1,705
K976764	Vein	0.601	29.50	177.5	1,555	29.9	394	0.10	0.08	682
K976761	Skarn	0.049	0.06	29.9	5,900	16.0	29.4	0.02	0.12	85.9
K976763	Skarn	0.035	0.52	106	222	16.45	6.32	0.23	0.06	687

STREAM SEDIMENT AND SOIL GEOCHEMISTRY

Stream Sediment Geochemistry

Regional stream sediment samples collected by the GSC around the periphery of the Liam property yielded elevated values for arsenic, antimony, mercury and bismuth.

In 1998, Viceroy Exploration collected 5 stream sediment samples from a creek (Creek 1) that drains the central part of the property to the southeast. New Dimension took 11 additional stream sediment samples from Creek 1 and two other creeks, which lie in the northwest (Creek 2) and southeast (Creek 3) corners of the property. Sample locations are plotted on Figure 6, while results for gold, arsenic, tin, antimony, bismuth, copper, silver, lead, zinc, tellurium, indium and molybdenum are plotted on Figures 7 to 18, respectively (no historical values are available for tin, tellurium, indium or molybdenum). Sampling and Analytical Procedures are described in Appendix II, while Certificates of Analysis are provided in Appendix IV. Anomalous thresholds and peak values for stream sediment samples are listed in Table III.

Table III - Geochemical Data for Stream Sediment Samples

Element	Anomalous Thresholds				
	Weak	Moderate	Strong	Very Strong	Peak
Gold (ppb)	$\geq 10 < 20$	≥ 20	-	-	25
Arsenic (ppm)	$\geq 50 < 100$	$\geq 100 < 200$	$\geq 200 < 500$	≥ 500	921
Tin (ppm)	$\geq 1 < 2$	$\geq 2 < 5$	≥ 5	-	7.8
Antimony (ppm)	$\geq 2 < 5$	$\geq 5 < 10$	≥ 10	-	45
Bismuth (ppm)	$\geq 2 < 5$	$\geq 5 < 10$	≥ 10	-	11.5
Copper (ppm)	$\geq 50 < 100$	$\geq 100 < 200$	$\geq 200 < 500$	≥ 500	545
Silver (ppm)	$\geq 0.5 < 1$	$\geq 1 < 2$	≥ 2	-	2.04
Lead (ppm)	$\geq 50 < 100$	≥ 100	-	-	154
Zinc (ppm)	$\geq 100 < 200$	$\geq 200 < 500$	≥ 500	-	6460
Tellurium (ppm)	$\geq 0.1 < 0.2$	≥ 0.2	-	-	0.38
Indium (ppm)	≥ 0.1	-	-	-	0.091
Molybdenum (ppm)	$\geq 5 < 10$	$\geq 10 < 20$	≥ 20	-	27.7

Creek 1 returned the strongest overall geochemical response from stream sediment sampling. It comprises a main southeasterly flowing stream and a tributary that drains the Neeson Showing. The main creek is strongly anomalous for arsenic, antimony and zinc, moderately anomalous for molybdenum, and weakly anomalous for gold, copper, silver and lead. The tributary yielded strongly elevated arsenic, tin, antimony, bismuth, copper, silver, zinc and molybdenum values, with moderate gold, lead and tellurium support.

A string of six samples collected from Creek 2 returned moderate to strong zinc values. Some of these samples also yielded moderately anomalous gold, antimony, copper and molybdenum values, with weak arsenic, silver and tellurium support.

Creek 3 is the least anomalous of the sampled drainages. It returned only weakly elevated values for antimony, copper and zinc.

Soil Geochemistry

New Dimension collected 235 contour soil samples around the periphery of the two central intrusive plugs. Most of these samples were collected within the hornfels aureoles. Sample locations are plotted on Figure 6, while results for gold, arsenic, tin, antimony, bismuth, copper, silver, lead, zinc, tellurium, indium and molybdenum are plotted on Figures 7 to 18, respectively. Sampling and Analytical Procedures are provided in Appendix II, while Certificates of Analysis are given in Appendix IV. Anomalous thresholds and peak values for soil samples are listed in Table IV.

Table IV - Geochemical Data for Soil Samples

Element	Anomalous Thresholds				
	Weak	Moderate	Strong	Very Strong	Peak
Gold (ppb)	$\geq 10 < 20$	$\geq 20 < 50$	≥ 50	-	81
Arsenic (ppm)	$\geq 50 < 100$	$\geq 100 < 200$	$\geq 200 < 500$	≥ 500	5990
Tin (ppm)	$\geq 1 < 2$	$\geq 2 < 5$	$\geq 5 < 10$	≥ 10	49.4
Antimony (ppm)	$\geq 5 < 10$	$\geq 10 < 20$	$\geq 20 < 50$	≥ 50	523
Bismuth (ppm)	$\geq 5 < 10$	$\geq 10 < 20$	≥ 20	-	39.5
Copper (ppm)	$\geq 50 < 100$	$\geq 100 < 200$	≥ 200	-	353
Silver (ppm)	$\geq 1 < 2$	$\geq 2 < 5$	≥ 5	-	7.31
Lead (ppm)	$\geq 100 < 200$	$\geq 200 < 500$	≥ 500	-	1680
Zinc (ppm)	$\geq 200 < 500$	≥ 500	-	-	900
Tellurium (ppm)	$\geq 0.1 < 0.2$	$\geq 0.2 < 0.5$	$\geq 0.5 < 1$	≥ 1	1
Indium (ppm)	$\geq 0.1 < 0.2$	$\geq 0.2 < 0.5$	≥ 0.5	-	3.2
Molybdenum (ppm)	$\geq 5 < 10$	$\geq 10 < 20$	$\geq 20 < 50$	≥ 50	57.2

The soil geochemical results define a northwest to southeast oriented, 1200 by 700 m core of coincident, strongly elevated values for all of the elements of interest. The core of the soil anomaly encompasses both showings and straddles the ridge to the east of the two central plugs. It is surrounded by broader haloes of strongly elevated arsenic, antimony and molybdenum values. The arsenic and antimony haloes parallel the orientation of the core anomaly, while the molybdenum halo extends between the plugs. A sample located 1000 m southwest of the anomalous core yielded isolated strongly elevated values for arsenic, tin, antimony, silver, lead and indium.

EXPLORATION MODEL

The Liam property lies along the southern margin of the Tombstone Gold Belt (TGB), a 600 km long belt of gold occurrences that extend across central Yukon and Alaska and which is associated with reduced, low magnetic signature plutons (Hart and Lewis, 2006 and Hart, 2006).

Since the discovery of the intrusion-related Fort Knox gold deposit in Alaska in the early 1990s, gold exploration in Yukon (particularly within the TGB) has increasingly focussed on plutons of Mid-Cretaceous age (Hart and Lewis, 2006). The strong association between gold mineralization and Mid-Cretaceous intrusions within the TGB provided the foundation for a

reduced intrusion-related gold systems (RIRGS) model that has gained widespread use and acceptance (Hart and Lewis, 2006).

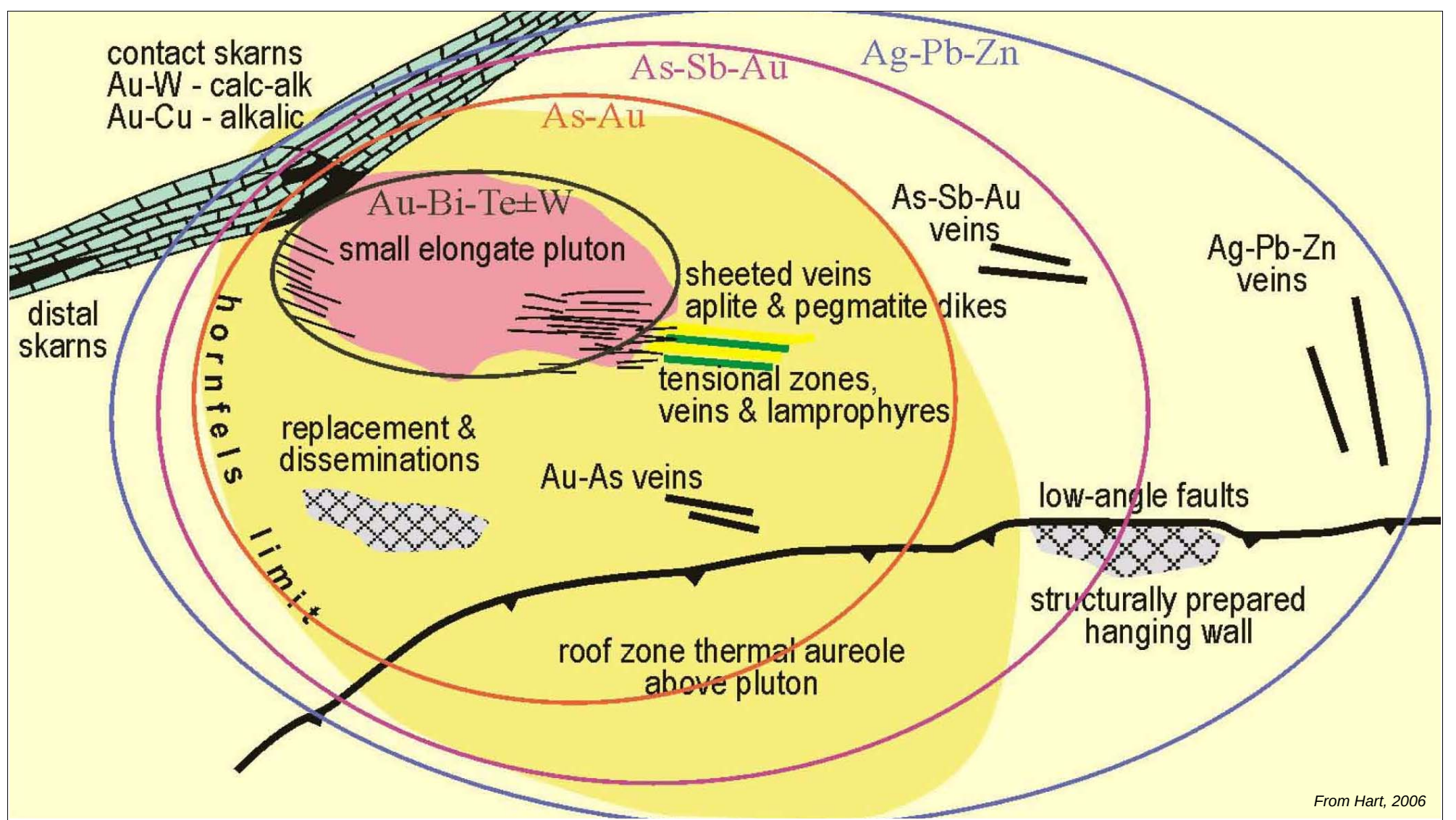
RIRGS gold deposits are the product of local-scale fluids derived from cooling of a proximal granitoid intrusion. Figure 19 illustrates several of the geochemical, lithological, structural and mineralogical features of RIRGS gold deposits. These deposits share several characteristics with orogenic deposits, which are considered to result from crustal-scale fluids derived through metamorphic dehydration (Hart, 2005). Features that are common to both deposit types include:

- 1) metaluminous, subalkalic intrusions or intermediate to felsic compositions that lie near the boundary between ilmenite and magnetite series;
- 2) carbonic hydrothermal fluids;
- 3) a metal assemblage that variably combines gold with elevated bismuth, tungsten, arsenic, molybdenum, tellurium and/or antimony and low concentrations of base metals; and
- 4) a low sulphide mineral content, with a reduced ore mineral assemblage that typically comprises arsenopyrite, pyrrhotite and pyrite and lacks magnetite and hematite (Hart, 2005).

Other features exist that exclusively differentiate RIRGS deposits (Hart, 2005), including:

- 1) ideal tectonic setting is ancient continental margin behind accretionary or collisional orogens and subduction-related magmatic arcs;
- 2) typically late in orogeny;
- 3) preferred host strata include basinal miogeoclinal sedimentary or metasedimentary rocks;
- 4) concentric zoning due to steep thermal gradients surrounding cooling plutons – zones can develop outward from pluton margin for up to a few kilometres and gold mineralization is associated with pluton-proximal mineralization (bismuth, tellurium and tungsten), aureole-hosted mineralization (arsenic or antimony) and distal mineralization (silver, lead and zinc);
- 5) several different styles of mineralization due to rapid cooling of mineralizing fluids – styles include variably intrusion and country-rock hosted skarns, replacements, disseminations, stockworks and veins;
- 6) sheeted arrays of parallel, low-sulphide, single-stage quartz veins found over tens to hundreds of metres and preferentially located in the pluton's cupola are the most distinctive style of gold mineralization;
- 7) plutons should exhibit physical evidence and geochemical support for high volatile contents, fluid exsolution, rapid fractionation, zonation, porphyry textures, presence of aplite and pegmatite dykes, quartz and tourmaline veins, greisen alteration, mariolitic cavities and/or unidirectional-solidification textures;
- 8) felsic, ilmenite-series plutons that lack magnetite, have low magnetic susceptibilities and aeromagnetic response, and have low ferric:ferrous ratios; and
- 9) coeval (± 2 million years) with their associated, causative pluton.

The abundance of RIRGS deposits correlates inversely with the surface exposure of the related intrusion because stocks and batholiths with considerable erosion are generally less prospective (Lefebvre and Hart, 2005).



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FIGURE 19
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**REDUCED INTRUSION-RELATED
GOLD SYSTEMS MODEL**

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DISCUSSION AND CONCLUSIONS

New Dimension's 2011 exploration program focussed on determining the source of enriched arsenic, antimony, mercury and bismuth values in stream sediment samples collected from creeks draining the Liam property. It successfully identified very encouraging coincident gold, arsenic, tin, antimony, bismuth, copper, silver, lead, zinc, tellurium, indium and molybdenum anomalies from stream sediment, soil and rock geochemical sampling.

Several geochemical and geological features on the property are characteristic of the RIRGS deposit model. These features include a continental margin setting that underwent orogeny, proximity to granitoid intrusions, a metamorphic aureole within basinal sediments, aplite dykes, and vein and skarn mineralization. This model applies to a number of mines and advanced prospects in the Tombstone Gold Belt of Yukon and Alaska.

The strong positive magnetic anomaly that surrounds the three small plugs on the property suggests that there has been only minimal erosion of the hornfelsed cupola above a larger buried intrusion. This setting would be positive for exploration because most of the prospective host rocks would be preserved.

Additional exploration is needed on the Liam property to constrain the extent, nature and controls of the mineralization. This work should include: 1) closely-spaced contour soil sampling and/or grid sampling where the terrain is gentle enough; 2) systematic detailed mapping and prospecting to identify the presence or absence of lithological, structural and/or mineralogical features that are indicative of RIRGS deposits; 3) a low-level helicopter-borne magnetic geophysical survey to better delineate contacts between the intrusive rocks and surrounding metasediments; and 4) diamond drilling to test for various types of mineralization deeper in the system. Electromagnetic and induced polarization surveys are not likely to be useful because syngenetic pyrite and graphite are both common in Earn Group and thus could overshadow responses related to hydrothermal sulphides. If sufficient funding is available, drilling should test beneath the Earn Group to see if it has acted as a cap rock for mineralization within Hyland Group and Gull Lake Formation – if this is the case, the vein mineralization observed at surface may be leakage from a larger system. Although high-level fracture-controlled gold mineralization at the Brewery Creek deposit is hosted within monzonite sills and Earn Group rocks (Diment and Craig, 1999), RIRGS occurrences in Yukon are more common to Hyland Group strata.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

Sarah Eaton, B.Sc. Geology, GIT

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APPENDIX I
STATEMENT OF QUALIFICATIONS

STATEMENT OF QUALIFICATIONS

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

1. I graduated from the University of British Columbia in 2007 with a B.Sc. in Honours Geological Sciences.
2. From 2002 to present, I have been actively engaged in mineral exploration in Yukon Territory, British Columbia and Northwest Territories.
3. I am a Geoscientist in Training (GIT) with the Association of Professional Engineers and Geoscientists of British Columbia (Member Number 154922).
4. I have personally participated in the field work reported herein and have interpreted all data resulting from this work.

Sarah Eaton, B.Sc. (Hon.) Geology, GIT

APPENDIX II

SAMPLING AND ANALYTICAL PROCEDURES

1998 Samples

“All samples were shipped and analyzed by Chemex Labs of North Vancouver, B.C. Soil samples were dried and sieved to -80 mesh, rock samples were crushed and pulverized to -150 mesh. All samples were subject to 30 g fire assay for gold with atomic absorption finish, and also analyzed by 32 element ICP scan. Mercury was analyzed using a 10 ppb detection limit. All sample locations have been tied into UTM coordinates” (Sculze, 1998).

2011 Samples

Rock geochemical sample sites on the property were marked with orange flagging tape labelled with the sample number. The location of each sample was determined using a handheld GPS unit. Multi-element analyses for rock samples were carried out at ALS Chemex in Whitehorse, Yukon and/or North Vancouver, B.C. Each sample was dried, fine crushed to better than 70% passing 2 mm and then a 250 g split was pulverized to better than 85% passing 75 microns. The fine fraction was then analyzed for 51 elements using an aqua regia digestion followed by inductively coupled plasma combined with mass spectroscopy and atomic emission spectroscopy (ME-MS41). An additional 25 g charge was further analysed for gold by aqua regia digestion with inductively coupled plasma mass spectroscopy finish (Au-TL44).

Stream sediment samples were collected from creeks by hand, while soil samples were collected from 10 to 40 cm deep holes dug by hand-held auger. All samples were placed into individually pre-numbered Kraft paper bags. Sample sites are marked by aluminum tags inscribed with the sample numbers and affixed to 0.5 m wooden lath that were driven into the ground. All sample locations were recorded using hand-held GPS units. All samples were sent to ALS Chemex in Whitehorse, Yukon and/or Vancouver, B.C., where they were dried, screened to -180 microns, and then analyzed for 51 elements using an aqua regia digestion followed by inductively coupled plasma combined with mass spectroscopy and atomic emission spectroscopy (ME-MS41). An additional 25 g charge was further analysed for gold by aqua regia digestion with inductively coupled plasma mass spectroscopy finish (Au-TL43).

APPENDIX III
ROCK SAMPLE DESCRIPTIONS

Rock Sample Descriptions			Project: <u>Lansing</u>	Property: <u>Liam</u>	NAD83	Zone 8
Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K976751	UTM:	632890 E	UTM:	7008298 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: 1 block of rusty-brown weathering, brecciated (on gross scale), greenish-grey, fine grained, siltstone-sandstone with open spaces, thin quartz vein and limonite often in open spaces.						
Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K976752	UTM:	632619 E	UTM:	7007377 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: 1 cobble of strongly rusty weathering, pervasively rusty and weakly limonitic, manganese stained muscovite-tremolite skarn? Collected from float below contact - rare dark grey limestone talus in area.						
Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K976753	UTM:	632794 E	UTM:	7007034 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: 1 cobble (at least 2 in area) of very rusty weathering, porous, limonitic muscovite-tremolite(?) skarn with quartz.						
Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K976754	UTM:	632960 E	UTM:	7007007 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: Rusty weathering cobble of quartz with 2 x 3 cm bleb of pyrrhotite.						
Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K976755	UTM:	633191 E	UTM:	7007083 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: 1 cobble of rusty-brown weathering, strongly limonitic, grey, sucrosic quartz						
Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K976756	UTM:	633504 E	UTM:	7007175 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: 1 cobble of brown-orange limonite with 1 cm wide arsenopyrite >> quartz vein. Knubbly waethering. Quartz is stained green.						

Rock Sample Descriptions			Project: <u>Lansing</u>	Property: <u>Liam</u>	NAD83	Zone 8
Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K976757	UTM:	633319 E	UTM:	7006775 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: Chip sample (about 2 m wide) across weakly to moderately skarnified limestone horizon. Skarnification is primarily dark green (diopside?). Very local malachite staining. Sample not across highest grade (malachite/limonite) area - representative of horizon.						
Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K976758	UTM:	633338 E	UTM:	7006755 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: 1 cobble of rusty-brown weathering, pervasively rusty, grey quartz with yellow-orange stain on fracture and trace to minor blebby pyrrhotite in float.						
Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K976759	UTM:	633319 E	UTM:	7006771 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: Where exposed, up to 12 cm wide quartz vein with moderate to very strong arsenopyrite>pyrite and orange-yellow-green limonite. This sample taken in situ of lower grade material.						
Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K976760	UTM:	633319 E	UTM:	7006771 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: Same as K976759 - but higher grade (semi-massive) arsenopyrite>pyrite taken in float adjacent to vein.						
Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K976761	UTM:	633354 E	UTM:	7007786 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: 1 cobble in talus of rusty, strongly limonitic skarn (?) with minor muscovite or sericite and quartz, locally strong malachite staining on fractures. Heavy. Minor pyrite? (Could be muscovite).						
Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K976762	UTM:	633358 E	UTM:	7006781 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: 1 block of strongly weathered, knubbly-brown weathering, yellow stained quartz vein (?) or skarn with moderate arsenopyrite. Collected from talus, but likely close to source.						

Rock Sample Descriptions			Project: <u>Lansing</u>	Property: <u>Liam</u>	NAD83	Zone 8
Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K976763	UTM:	633367 E	UTM:	7006795 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: 1 block in talus of knobby weathering, locally vuggy, strongly limonitic skarn(?) with minor muscovite or sericite(?) - fine grained, soft.						
Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K976764	UTM:	633339 E	UTM:	7006791 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: Rusty-brown weathering, block (close to in place) of very heavy, nearly massive, fine grained arsenopyrite with yellow stained quartz(?) Other blocks in area similar to K976762/63 - rare, knobby weathering limestone in area too.						
Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
K976765	UTM:	633276 E	UTM:	7006717 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: 1 block (of several) of knobby and rusty weathering, tremolite-muscovite skarn with rusty fracture, just below contact with dyke.						
Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
I079020	UTM:	632942 E	UTM:	7007591 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: Gossanous fine talus chips below rusty cliffs.						
Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
I079021	UTM:	632854 E	UTM:	7007562 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: Rusty weathering silicified grey siltstone with scattered fine pyrite, possible weathered sphalerite.						
Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
I079022	UTM:	632869 E	UTM:	7007623 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: Pervasively rusty, intensely silicified quartzite with trace pyrite. Very abundant in talus below cliffs.						
Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
I079023	UTM:	632926 E	UTM:	7007734 N	Sample Width:	Abundance:
	Elevation:	m				
Comments: Strongly silica altered grey siltstone with pyrite in blebs and micro-fractures. Abundant float in talus below rusty cliffs.						

Rock Sample Descriptions	Project: <u>Lansing</u>	Property: <u>Liam</u>	NAD83	Zone 8
---------------------------------	-------------------------	-----------------------	-------	--------

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
I079024	UTM:	632188 E	UTM:	7008493 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Black shale with very strong rust, limonite with leach cavities, and fine disseminated pyrite. Abundant in float.

Sample Number:	Grid East:	E	Grid North:	N	Type:	Dimension:
I079025	UTM:	632926 E	UTM:	7007734 N	Sample Width:	Abundance:
	Elevation:	m				

Comments: Quartz vein float with limonite and limonitic leach cavities. Low abundance. Found within same rusty zone as I079023.

APPENDIX IV
CERTIFICATES OF ANALYSIS



ALS Canada Ltd.
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North Vancouver BC V7H 0A7
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To: **ARCHER, CATHRO AND ASSOCIATES (1981)
LIMITED**
1016- 510 W HASTINGS ST
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Page: 1
Finalized Date: 17- JUN- 2011
Account: F

CERTIFICATE WH11090302

Project: New Dimension- LIAM

P.O. No.:

This report is for 84 Soil samples submitted to our lab in Whitehorse, YT, Canada on 1- JUN- 2011.

The following have access to data associated with this certificate:

DOUG EATON

SARAH EATON

JOAN MARIACHER

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- TL43	Trace Level Au - 25g AR	ICP- MS
ME- MS41	51 anal. aqua regia ICPMS	

To: **ARCHER, CATHRO AND ASSOCIATES (1981) LIMITED**
ATTN: JOAN MARIACHER
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VANCOUVER BC V6B 1L8

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Page: 2 - A
Total # Pages: 4 (A - D)
Plus Appendix Pages
Finalized Date: 17- JUN- 2011
Account: F

Project: New Dimension- LIAM

CERTIFICATE OF ANALYSIS WH11090302

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- TL43 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
CC55362		0.18	0.001	0.18	0.70	20.2	<0.2	<10	170	0.26	0.41	0.13	2.19	24.7	5.7	14
CC55363		0.14	0.002	0.17	0.49	24.5	<0.2	<10	170	0.28	0.34	0.09	0.63	30.0	10.5	9
CC55364		0.14	0.001	0.20	0.63	19.2	<0.2	<10	180	0.36	0.34	0.10	1.78	31.5	8.3	13
CC55365		0.12	<0.001	0.19	0.43	10.0	<0.2	<10	220	0.28	0.23	0.12	1.34	18.65	8.6	8
CC55366		0.12	0.001	0.28	0.62	9.1	<0.2	<10	130	0.32	0.20	0.08	0.45	21.0	7.6	9
CC55367		0.12	0.001	0.19	0.81	15.3	<0.2	<10	260	0.37	0.28	0.18	1.40	25.1	8.0	17
CC55368		0.16	0.001	0.43	0.65	17.1	<0.2	<10	210	0.35	0.29	0.04	1.67	25.7	6.8	13
CC55369		0.12	0.001	0.24	0.75	14.8	<0.2	<10	230	0.39	0.27	0.13	1.23	26.3	8.9	13
CC55370		0.22	0.002	0.55	0.87	20.8	<0.2	<10	140	0.45	0.29	0.04	0.98	31.9	6.3	17
CC55371		0.16	0.001	0.63	0.62	19.4	<0.2	<10	150	0.33	0.27	0.03	1.07	29.2	7.7	13
CC55372		0.14	0.001	0.40	0.55	10.0	<0.2	<10	210	0.30	0.21	0.03	6.26	17.85	14.1	12
CC55373		0.12	0.003	0.28	0.71	23.1	<0.2	<10	200	0.34	0.29	0.03	0.60	31.3	8.8	15
CC55374		0.12	0.004	0.61	0.75	31.6	<0.2	<10	210	0.58	0.43	0.27	3.71	28.8	10.4	15
CC55375		0.16	0.001	0.17	1.57	12.6	<0.2	<10	180	1.00	0.44	0.15	0.77	90.5	19.6	22
CC55376		0.22	0.001	0.14	1.44	13.2	<0.2	<10	140	0.95	0.41	0.04	0.43	82.7	16.0	20
CC55377		0.16	0.001	0.10	1.83	16.6	<0.2	<10	100	0.60	0.31	0.59	0.67	58.6	23.7	27
CC55378		0.16	0.001	0.03	1.82	22.8	<0.2	<10	340	1.57	0.54	0.04	0.31	75.0	38.5	20
CC55379		0.20	0.001	0.18	2.09	10.2	<0.2	<10	230	1.80	0.71	0.37	0.12	48.6	21.3	26
CC55380		0.12	0.003	0.16	1.69	14.8	<0.2	<10	150	0.77	0.31	0.55	0.25	25.8	16.3	22
CC55381		0.16	0.003	0.52	1.31	54.2	<0.2	<10	150	0.94	0.31	0.18	1.03	50.8	24.3	23
CC55382		0.24	0.003	0.22	1.30	19.1	<0.2	<10	240	0.95	0.36	0.53	0.62	36.5	15.7	18
CC55383		0.24	0.003	0.39	1.40	20.8	<0.2	<10	260	0.86	0.36	0.84	1.30	35.8	12.3	18
CC55320		0.18	0.003	0.24	0.92	23.9	<0.2	<10	170	0.29	0.38	0.07	1.22	21.6	9.8	16
CC55321		0.24	0.002	0.09	0.83	42.9	<0.2	<10	190	0.37	0.43	0.05	0.44	16.50	7.9	15
CC55322		0.20	0.006	0.16	0.62	17.9	<0.2	<10	80	0.23	0.32	0.03	0.14	25.0	8.1	12
CC55323		0.08	NSS	0.07	0.47	16.1	<0.2	<10	70	0.13	0.28	0.03	0.12	26.0	4.9	9
CC55324		0.18	<0.001	0.13	0.25	2.5	<0.2	<10	30	0.06	0.07	0.02	0.06	4.52	1.5	4
CC55325		0.18	0.003	0.38	0.60	8.3	<0.2	<10	80	0.21	0.21	0.02	0.18	22.1	5.3	9
CC55326		0.18	0.004	0.83	0.82	84.2	<0.2	<10	160	0.77	0.63	0.22	9.52	29.6	7.6	12
CC55327		0.18	0.008	0.35	1.54	174.5	<0.2	<10	160	0.61	1.75	0.10	1.13	25.8	7.3	27
CC55328		0.18	0.012	0.31	0.95	247	<0.2	<10	140	0.30	2.27	0.06	1.72	20.7	4.0	18
CC55329		0.10	NSS	0.62	0.51	218	<0.2	<10	70	0.27	5.46	0.10	0.22	5.32	2.2	7
CC55330		0.12	0.022	2.04	1.06	921	<0.2	<10	110	1.06	11.50	0.86	52.5	38.0	76.6	14
CC55331		0.16	0.007	0.37	1.60	361	<0.2	<10	110	0.69	3.37	0.09	1.00	17.75	6.0	22
CC55332		0.16	0.023	0.78	1.27	2090	<0.2	<10	70	0.29	5.72	0.08	0.15	12.30	3.3	14
CC55333		0.14	0.019	0.91	2.05	2280	<0.2	<10	110	0.38	6.52	0.11	0.49	13.80	4.4	25
CC55334		0.14	0.081	4.99	1.95	5990	<0.2	<10	120	0.43	20.2	0.10	0.94	21.1	6.6	24
CC55335		0.12	0.003	0.56	0.88	294	<0.2	<10	70	0.38	1.13	0.11	0.71	8.81	6.4	10
CC55336		0.24	0.025	1.17	2.56	5210	<0.2	<10	170	0.98	16.90	0.68	2.95	24.3	32.9	21
CC55337		0.14	0.006	0.83	1.45	847	<0.2	<10	120	0.57	6.56	0.09	1.77	15.00	9.3	20



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Account: F

Project: New Dimension- LIAM

CERTIFICATE OF ANALYSIS WH11090302

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
CC55362		1.38	21.6	2.11	5.08	0.12	<0.02	0.01	0.021	0.09	12.2	4.1	0.13	496	2.09
CC55363		0.98	26.9	2.28	3.21	0.12	<0.02	0.01	0.026	0.09	14.8	1.6	0.05	1700	2.72
CC55364		1.78	35.9	2.62	3.58	0.12	<0.02	0.01	0.026	0.11	16.1	2.7	0.08	439	2.70
CC55365		1.45	23.0	1.80	2.79	0.11	<0.02	0.01	0.020	0.07	9.7	1.2	0.05	850	2.03
CC55366		1.12	23.1	2.01	2.97	0.11	<0.02	0.03	0.018	0.08	11.0	2.5	0.08	911	1.86
CC55367		1.24	23.4	2.72	4.41	0.12	<0.02	0.01	0.022	0.11	13.1	5.9	0.20	659	2.27
CC55368		1.30	23.9	2.49	3.33	0.12	<0.02	0.02	0.023	0.08	13.5	4.4	0.10	516	2.27
CC55369		1.17	30.8	2.51	3.50	0.12	<0.02	0.01	0.021	0.08	13.3	4.5	0.13	502	2.26
CC55370		3.22	40.4	3.46	3.91	0.13	<0.02	0.05	0.032	0.08	16.1	6.4	0.16	235	3.51
CC55371		1.64	37.9	2.74	3.17	0.12	<0.02	0.02	0.023	0.08	15.2	3.7	0.10	611	3.44
CC55372		2.07	29.0	1.98	2.79	0.10	<0.02	0.03	0.022	0.07	9.4	1.2	0.05	1220	2.61
CC55373		1.79	37.6	3.18	3.55	0.11	<0.02	0.03	0.029	0.08	15.8	4.6	0.15	455	3.95
CC55374		2.56	50.2	2.61	3.22	0.13	0.02	0.02	0.037	0.11	16.3	7.3	0.23	1060	9.50
CC55375		5.90	43.1	3.60	4.88	0.18	0.04	0.02	0.029	0.10	44.9	22.8	0.41	864	2.17
CC55376		3.82	50.2	3.47	4.46	0.17	0.04	0.02	0.025	0.08	40.4	22.0	0.37	767	2.12
CC55377		5.14	64.2	5.15	7.08	0.16	0.03	0.01	0.043	0.07	31.1	30.6	0.88	1120	3.61
CC55378		7.11	48.1	7.32	5.09	0.18	0.07	0.04	0.037	0.08	33.3	21.9	0.28	2300	3.12
CC55379		8.44	63.0	4.17	5.96	0.18	0.10	0.03	0.026	0.10	21.9	58.9	0.65	1980	0.89
CC55380		2.86	55.0	4.11	5.10	0.13	0.09	0.05	0.031	0.06	11.2	33.5	0.58	829	2.99
CC55381		2.76	75.8	5.26	4.01	0.17	0.04	0.04	0.036	0.05	21.1	20.0	0.35	2050	6.38
CC55382		4.13	52.3	3.54	3.91	0.15	0.06	0.05	0.024	0.07	15.8	28.2	0.39	830	2.08
CC55383		4.31	52.2	3.08	3.94	0.13	0.05	0.08	0.029	0.07	18.0	25.7	0.44	726	2.34
CC55320		1.53	30.3	2.71	5.08	0.11	<0.02	0.02	0.024	0.09	10.9	4.8	0.15	546	2.56
CC55321		1.53	32.5	3.24	4.55	0.11	<0.02	0.02	0.028	0.08	8.0	4.7	0.13	365	3.13
CC55322		2.15	31.1	2.83	3.71	0.12	<0.02	0.01	0.025	0.07	12.7	2.4	0.09	260	3.18
CC55323		1.93	23.1	2.16	4.14	0.11	<0.02	0.02	0.017	0.07	13.0	1.0	0.04	175	3.04
CC55324		1.00	7.3	0.89	1.27	0.09	<0.02	0.01	0.007	0.03	2.3	0.4	0.02	52	0.72
CC55325		2.10	28.2	2.17	3.15	0.11	<0.02	0.02	0.017	0.05	11.6	2.0	0.05	173	2.66
CC55326		2.06	40.0	2.41	2.94	0.12	<0.02	0.11	0.082	0.08	16.7	7.2	0.20	399	13.00
CC55327		2.03	42.9	3.10	5.46	0.11	<0.02	0.09	0.039	0.09	13.5	18.2	0.44	287	4.00
CC55328		1.57	39.9	3.07	5.77	0.11	<0.02	0.04	0.041	0.10	10.8	7.7	0.22	202	4.55
CC55329		2.54	22.3	1.91	2.41	0.10	<0.02	0.04	0.010	0.05	2.6	3.5	0.09	98	1.36
CC55330		5.39	545	3.53	2.94	0.16	0.03	0.11	0.091	0.08	31.7	10.6	0.38	2380	27.7
CC55331		3.86	55.7	3.11	5.72	0.10	<0.02	0.05	0.037	0.08	8.9	13.0	0.30	174	2.77
CC55332		3.43	87.8	3.71	5.23	0.07	0.02	0.06	0.024	0.06	6.4	7.0	0.20	99	2.05
CC55333		10.10	245	5.82	8.16	0.13	0.02	0.08	0.133	0.20	7.5	13.7	0.53	196	5.15
CC55334		8.96	253	7.26	8.63	0.17	0.03	0.08	0.659	0.23	9.9	16.0	0.62	614	4.38
CC55335		3.02	44.9	1.87	4.00	<0.05	<0.02	0.06	0.015	0.07	4.4	5.2	0.16	214	1.60
CC55336		8.72	244	5.85	7.17	0.14	0.03	0.05	0.117	0.20	11.5	26.1	0.59	683	4.27
CC55337		5.31	57.1	3.55	7.93	0.07	<0.02	0.06	0.050	0.11	8.0	18.5	0.34	376	3.29



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Account: F

Project: New Dimension- LIAM

CERTIFICATE OF ANALYSIS WH11090302

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
CC55362		0.43	14.5	420	18.0	21.5	<0.001	0.02	1.50	0.7	0.6	0.7	18.5	<0.01	0.04
CC55363		0.11	19.9	890	16.4	13.3	<0.001	0.02	2.77	0.4	0.8	0.4	15.3	<0.01	0.08
CC55364		0.19	24.4	790	19.2	14.5	<0.001	0.03	3.09	0.5	0.7	0.5	18.0	<0.01	0.06
CC55365		0.15	16.5	680	14.7	10.5	<0.001	0.03	1.79	0.3	0.5	0.4	20.1	<0.01	0.05
CC55366		0.17	15.1	600	13.9	9.2	<0.001	0.03	1.63	0.3	0.6	0.3	11.6	<0.01	0.04
CC55367		0.22	19.1	710	22.2	11.2	<0.001	0.03	1.93	0.5	0.5	0.5	24.1	<0.01	0.06
CC55368		0.27	18.7	590	18.6	15.0	<0.001	0.01	2.68	0.8	0.6	0.5	12.6	<0.01	0.07
CC55369		0.23	20.6	630	20.4	9.6	<0.001	0.02	2.33	0.6	0.7	0.5	20.9	<0.01	0.04
CC55370		0.42	26.4	650	22.1	11.9	0.001	0.03	3.55	1.7	1.4	0.5	17.3	<0.01	0.08
CC55371		0.22	21.4	710	33.8	10.3	0.001	0.04	4.01	0.8	1.4	0.5	22.6	<0.01	0.06
CC55372		0.17	14.0	1210	73.4	10.0	<0.001	0.06	6.49	0.3	0.8	0.5	21.6	<0.01	0.05
CC55373		0.16	24.7	710	49.1	11.2	<0.001	0.05	7.38	0.6	1.5	0.6	22.0	<0.01	0.07
CC55374		0.15	35.3	1230	76.2	14.0	0.003	0.11	15.25	0.7	4.1	0.6	51.7	<0.01	0.10
CC55375		0.24	40.3	530	54.1	9.2	<0.001	0.02	1.92	1.8	0.9	0.4	23.0	<0.01	0.04
CC55376		0.24	32.6	530	39.2	8.4	0.001	0.02	2.28	1.9	0.9	0.4	13.7	<0.01	0.04
CC55377		0.26	33.1	1420	26.4	7.6	0.001	0.04	2.24	3.0	0.9	0.4	34.8	<0.01	0.08
CC55378		0.21	34.3	1250	55.6	9.0	<0.001	0.12	2.44	2.3	0.8	0.3	51.8	<0.01	0.08
CC55379		0.10	42.7	400	41.8	10.6	<0.001	<0.01	0.62	4.4	0.8	0.4	32.1	<0.01	0.06
CC55380		0.25	34.0	1070	26.3	7.7	0.001	0.04	1.60	2.9	1.3	0.4	41.2	<0.01	0.07
CC55381		0.20	53.6	1850	27.7	5.7	0.001	0.03	10.40	3.4	2.4	0.3	25.4	<0.01	0.07
CC55382		0.24	34.0	640	29.5	8.8	0.004	0.06	3.06	2.9	1.2	0.4	57.2	<0.01	0.05
CC55383		0.39	32.9	800	38.6	9.8	0.007	0.07	3.72	2.7	1.9	0.4	77.8	<0.01	0.04
CC55320		0.41	19.0	570	19.8	11.6	<0.001	0.02	2.09	0.8	0.7	0.6	12.9	<0.01	0.06
CC55321		0.47	20.2	490	20.1	14.8	<0.001	0.01	2.53	1.6	1.0	0.6	12.1	<0.01	0.06
CC55322		0.32	23.0	510	17.0	11.6	<0.001	0.01	3.34	1.0	1.1	0.5	7.0	<0.01	0.06
CC55323		0.20	14.5	540	8.9	10.1	<0.001	0.01	3.54	0.5	0.6	0.7	5.9	<0.01	0.06
CC55324		0.11	4.7	370	3.5	3.1	<0.001	0.01	0.52	0.2	0.2	0.2	4.5	<0.01	0.01
CC55325		0.19	19.7	490	11.0	7.6	<0.001	0.01	2.32	0.7	0.6	0.4	4.0	<0.01	0.05
CC55326		0.23	67.2	970	96.8	14.5	0.003	0.09	13.75	0.8	2.9	0.9	35.7	<0.01	0.09
CC55327		1.02	25.7	470	26.2	11.3	<0.001	0.02	6.96	2.4	1.2	1.2	15.6	<0.01	0.09
CC55328		0.74	17.0	490	36.3	13.8	<0.001	0.02	9.89	1.5	1.1	1.8	12.3	<0.01	0.13
CC55329		0.39	9.1	380	9.1	5.9	<0.001	0.03	1.22	0.6	0.9	0.3	15.1	<0.01	0.11
CC55330		0.35	1160	960	154.0	9.4	0.004	0.11	45.0	2.1	6.3	7.8	50.8	<0.01	0.38
CC55331		1.16	25.3	470	42.5	14.6	<0.001	0.04	18.80	1.9	1.2	2.8	20.8	<0.01	0.29
CC55332		0.85	12.7	660	12.1	9.2	0.001	0.06	2.95	1.4	3.5	0.8	16.9	0.01	0.35
CC55333		1.88	23.6	910	49.4	21.3	0.001	0.19	36.6	2.6	5.7	4.5	32.6	0.01	0.23
CC55334		1.79	17.1	890	235	26.3	0.001	0.16	395	3.8	6.4	11.9	23.3	<0.01	1.00
CC55335		0.76	13.9	510	36.8	9.6	<0.001	0.07	16.25	0.9	0.9	1.5	18.2	<0.01	0.06
CC55336		1.29	60.4	820	50.8	24.9	0.002	0.14	24.7	3.5	5.7	4.4	73.1	0.01	0.41
CC55337		1.78	20.7	470	79.9	21.2	0.001	0.04	25.1	2.4	1.5	3.3	18.4	<0.01	0.17



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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
CC55362		0.032	0.11	0.52	55	0.25	2.15	148	<0.5
CC55363		0.009	0.12	0.39	40	0.08	2.27	137	<0.5
CC55364		0.013	0.14	0.54	46	0.11	2.91	161	<0.5
CC55365		0.012	0.11	0.42	31	0.08	2.02	121	<0.5
CC55366		0.013	0.10	0.44	29	0.09	2.12	85	<0.5
CC55367		0.019	0.12	0.51	50	0.20	2.68	157	<0.5
CC55368		0.016	0.13	0.49	38	0.12	2.26	164	<0.5
CC55369		0.014	0.10	0.52	41	0.12	3.30	146	<0.5
CC55370		0.019	0.20	0.68	47	0.15	3.69	166	<0.5
CC55371		0.012	0.14	0.52	42	0.12	2.63	178	<0.5
CC55372		0.008	0.12	0.63	39	0.08	2.15	117	0.5
CC55373		0.010	0.17	0.54	48	0.09	3.08	203	<0.5
CC55374		0.008	0.23	1.30	58	0.07	6.32	325	0.5
CC55375		0.009	0.09	0.85	25	0.05	7.93	207	1.0
CC55376		0.007	0.09	0.75	25	0.05	6.79	131	1.3
CC55377		0.011	0.08	0.69	66	0.06	6.12	180	1.0
CC55378		0.006	0.07	1.53	21	<0.05	8.53	134	2.0
CC55379		<0.005	0.10	0.96	16	<0.05	19.60	102	5.8
CC55380		0.005	0.10	2.30	39	0.05	8.37	126	2.6
CC55381		0.008	0.20	1.61	35	0.06	12.75	166	1.5
CC55382		0.007	0.09	2.10	24	<0.05	12.45	115	1.9
CC55383		0.012	0.10	2.26	31	0.07	11.85	183	1.6
CC55320		0.019	0.15	0.57	53	0.15	2.83	129	<0.5
CC55321		0.012	0.18	0.54	49	0.10	2.59	137	<0.5
CC55322		0.013	0.17	0.53	44	0.11	2.28	117	<0.5
CC55323		0.010	0.18	0.35	53	0.12	1.50	92	<0.5
CC55324		0.015	0.06	0.23	18	<0.05	0.55	25	<0.5
CC55325		0.009	0.18	0.42	40	0.09	1.91	96	<0.5
CC55326		0.009	0.49	2.92	56	0.11	9.26	402	<0.5
CC55327		0.040	0.21	1.12	62	0.25	4.51	137	<0.5
CC55328		0.029	0.21	0.71	75	0.21	2.44	143	<0.5
CC55329		0.029	0.09	0.35	25	0.07	1.02	55	<0.5
CC55330		0.017	0.23	23.0	105	0.28	32.2	6460	1.0
CC55331		0.039	0.20	0.92	56	0.21	3.52	201	0.7
CC55332		0.040	0.12	0.85	38	0.16	3.61	46	0.7
CC55333		0.054	0.26	1.97	60	0.35	3.81	162	0.9
CC55334		0.076	0.40	1.87	68	0.16	6.58	348	1.4
CC55335		0.034	0.12	0.49	30	0.13	2.26	92	<0.5
CC55336		0.059	0.38	3.55	56	0.45	10.20	380	0.9
CC55337		0.062	0.24	0.68	64	0.39	2.74	281	0.7



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- TL43 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
CC55338		0.10	<0.001	0.12	0.46	16.0	<0.2	<10	60	0.13	0.12	0.05	0.43	3.29	1.2	2
CC55339		0.12	0.003	0.30	1.50	279	<0.2	<10	140	0.72	1.56	0.06	0.74	22.4	7.0	17
CC55340		0.12	<0.001	0.12	0.69	108.5	<0.2	<10	50	0.12	1.18	0.04	0.15	14.10	2.1	8
CC55341		0.14	0.005	0.74	1.25	98.2	<0.2	<10	280	0.51	1.28	0.17	2.09	15.60	7.1	12
CC55342		0.10	0.001	0.37	0.37	11.9	<0.2	<10	40	0.06	0.15	0.05	0.54	2.80	2.4	3
CC55343		0.10	0.001	1.93	0.90	119.0	<0.2	<10	190	0.38	1.06	0.04	1.40	14.70	12.2	11
CC55344		0.10	<0.001	0.97	0.52	25.9	<0.2	<10	140	0.30	0.43	0.08	1.08	7.39	6.3	6
CC55440		0.14	<0.001	0.04	0.38	8.8	<0.2	<10	40	0.11	0.19	0.02	0.05	12.55	3.9	6
CC55441		0.16	0.001	0.21	0.95	13.0	<0.2	<10	230	0.52	0.32	0.04	0.19	20.1	5.5	14
CC55442		0.16	0.001	0.17	1.35	21.4	<0.2	<10	70	0.28	0.39	0.04	0.12	14.80	9.5	23
CC55443		0.08	0.002	0.09	1.00	6.6	<0.2	<10	160	0.55	0.18	0.61	0.28	16.50	7.1	11
CC55444		0.14	0.001	0.54	1.39	44.0	<0.2	<10	200	0.82	0.37	0.11	0.33	31.0	16.8	19
CC55445		0.12	0.001	0.16	0.94	13.4	<0.2	<10	140	0.45	0.25	0.04	0.30	20.8	8.2	14
CC55446		0.14	0.001	0.31	0.45	10.1	<0.2	<10	100	0.13	0.14	0.03	0.23	14.75	3.0	8
CC55447		0.16	0.001	0.44	0.55	12.0	<0.2	<10	150	0.22	0.19	0.06	1.42	31.8	4.5	11
CC55448		0.16	0.003	0.38	0.75	27.1	<0.2	<10	180	0.48	0.27	0.03	0.69	33.7	9.5	13
CC55449		0.14	0.001	0.27	0.68	20.4	<0.2	<10	200	0.24	0.27	0.08	4.80	32.4	5.9	14
CC55450		0.16	<0.001	0.16	1.35	19.8	<0.2	<10	190	0.42	0.40	0.05	0.93	31.7	19.4	19
CC106901		0.16	0.003	0.54	0.76	20.8	<0.2	<10	150	0.44	0.24	0.03	0.63	21.2	8.6	14
CC106902		0.22	0.001	0.63	0.89	20.4	<0.2	<10	190	0.34	0.27	0.04	0.84	27.2	8.4	19
CC106903		0.20	0.001	0.37	0.73	34.1	<0.2	<10	140	0.26	0.39	0.02	0.71	26.9	6.0	13
CC106904		0.18	<0.001	0.17	0.57	17.7	<0.2	<10	220	0.22	0.33	0.07	0.81	22.8	4.0	11
CC106905		0.20	<0.001	0.68	0.72	24.4	<0.2	<10	140	0.30	0.33	0.06	1.59	30.5	7.6	15
CC106906		0.18	0.001	0.30	0.76	42.4	<0.2	<10	160	0.36	0.41	0.07	0.44	24.9	8.7	14
CC106907		0.20	<0.001	0.84	0.63	8.4	<0.2	<10	150	0.30	0.15	0.09	0.48	11.50	3.7	8
CC106908		0.22	0.001	0.20	0.88	26.4	<0.2	<10	150	0.17	0.34	0.03	0.24	29.6	5.4	16
CC106909		0.26	0.008	0.71	1.15	20.0	<0.2	<10	320	0.32	0.29	0.05	0.48	26.1	4.5	18
CC106910		0.20	0.009	2.48	1.28	29.1	<0.2	<10	930	0.59	0.25	0.37	1.26	19.25	4.4	19
CC106911		0.20	0.001	0.27	0.99	21.9	<0.2	<10	180	0.31	0.22	0.09	1.25	29.5	9.3	15
CC106912		0.16	<0.001	0.94	0.77	42.4	<0.2	<10	210	0.32	0.27	0.09	4.86	21.6	16.5	11
CC106913		0.22	0.001	0.32	0.34	70.7	<0.2	<10	110	0.14	0.20	0.04	0.90	19.70	4.2	7
CC106914		0.20	0.001	0.25	0.52	17.5	<0.2	<10	200	0.17	0.24	0.06	1.45	13.45	4.3	7
CC106915		0.16	0.002	0.39	0.59	21.9	<0.2	<10	250	0.23	0.37	0.03	1.96	21.7	5.6	10
CC106916		0.20	0.001	0.12	0.54	33.5	<0.2	<10	60	0.11	0.40	0.02	0.12	15.35	2.1	9
CC106917		0.18	0.001	3.10	0.44	175.0	<0.2	<10	60	0.14	1.83	0.02	0.33	15.70	2.1	8
CC106918		0.12	0.002	0.43	0.85	23.3	<0.2	<10	100	0.25	0.38	0.07	1.01	20.6	3.9	10
CC106919		0.16	0.030	0.61	0.39	584	<0.2	<10	30	0.10	2.95	0.04	0.23	3.76	1.5	5
CC106920		0.20	0.006	0.45	0.86	95.3	<0.2	<10	820	0.44	0.93	0.20	1.55	19.65	9.2	15
CC106921		0.14	0.005	0.25	1.05	463	<0.2	<10	120	0.40	2.68	0.04	0.70	12.15	4.8	15
CC106922		0.18	0.002	0.09	0.87	73.5	<0.2	<10	90	0.13	1.34	0.02	0.23	15.05	3.0	10



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
CC55338		0.33	6.1	0.61	2.63	<0.05	<0.02	0.02	0.005	0.02	1.7	1.0	0.03	30	0.27
CC55339		1.69	33.3	2.37	5.56	0.07	<0.02	0.06	0.036	0.05	11.3	14.0	0.26	237	2.19
CC55340		1.44	12.9	1.22	6.35	<0.05	<0.02	0.04	0.016	0.04	7.1	4.2	0.11	75	1.28
CC55341		2.36	52.0	2.50	6.11	0.05	<0.02	0.06	0.079	0.07	8.2	13.7	0.27	331	4.22
CC55342		0.43	8.0	0.61	2.21	<0.05	<0.02	0.04	0.008	0.03	1.4	1.0	0.03	122	0.66
CC55343		1.23	34.7	1.89	3.80	0.05	<0.02	0.05	0.035	0.06	7.6	7.4	0.12	549	1.68
CC55344		0.56	24.0	1.11	3.00	<0.05	<0.02	0.10	0.020	0.04	3.9	1.8	0.05	391	0.86
CC55440		2.25	11.9	1.34	3.32	<0.05	<0.02	0.01	0.009	0.05	5.6	2.1	0.04	223	1.18
CC55441		5.29	29.0	2.02	5.20	0.06	<0.02	0.03	0.020	0.09	9.3	7.1	0.10	274	2.10
CC55442		2.71	27.4	5.25	6.77	0.08	0.02	0.05	0.029	0.06	7.4	10.4	0.19	629	2.64
CC55443		2.34	17.6	1.45	3.98	0.05	0.06	0.05	0.015	0.05	6.5	13.0	0.16	754	1.06
CC55444		3.56	43.1	3.78	4.58	0.09	0.05	0.04	0.030	0.07	13.0	26.4	0.33	844	2.55
CC55445		3.42	26.9	2.59	3.82	0.06	0.02	0.03	0.019	0.05	10.1	20.3	0.22	458	2.22
CC55446		1.34	19.2	1.37	3.13	<0.05	<0.02	0.03	0.011	0.04	8.1	2.6	0.06	184	4.39
CC55447		1.26	27.7	1.57	3.96	0.07	<0.02	0.08	0.017	0.09	18.6	3.5	0.07	296	12.95
CC55448		1.36	46.2	2.88	3.15	0.09	0.02	0.04	0.034	0.09	17.7	7.4	0.13	343	12.00
CC55449		1.84	38.3	2.39	5.28	0.07	<0.02	0.03	0.023	0.08	17.6	3.3	0.07	364	12.95
CC55450		2.23	42.0	3.97	6.89	0.09	0.02	0.03	0.035	0.07	17.7	12.6	0.11	1540	2.72
CC106901		1.65	44.9	2.54	3.65	0.06	0.02	0.03	0.028	0.06	11.2	8.2	0.13	431	3.67
CC106902		0.88	37.3	3.41	5.35	0.08	<0.02	0.03	0.028	0.09	14.7	11.7	0.11	706	4.63
CC106903		0.95	28.6	2.85	4.79	0.07	<0.02	0.02	0.031	0.08	14.0	3.1	0.08	234	3.31
CC106904		1.20	18.5	1.74	4.24	0.05	<0.02	0.02	0.018	0.06	12.4	2.6	0.07	216	2.06
CC106905		1.61	34.6	3.66	5.52	0.08	<0.02	0.03	0.030	0.09	15.8	4.0	0.09	278	4.04
CC106906		1.12	27.9	2.97	3.86	0.07	<0.02	0.03	0.037	0.09	12.8	7.7	0.16	457	2.93
CC106907		1.04	13.4	1.21	3.09	<0.05	<0.02	0.04	0.014	0.05	5.8	4.7	0.06	181	1.28
CC106908		1.45	24.0	3.14	5.63	0.08	<0.02	0.02	0.025	0.07	15.3	3.6	0.11	263	4.01
CC106909		1.61	23.7	2.32	5.56	0.07	<0.02	0.07	0.027	0.08	13.9	8.3	0.13	268	2.98
CC106910		2.94	71.5	2.41	4.77	0.09	0.04	0.43	0.047	0.12	10.7	10.3	0.11	170	7.44
CC106911		1.52	32.2	2.69	4.31	0.08	<0.02	0.01	0.025	0.06	15.1	20.1	0.13	256	3.17
CC106912		2.79	27.1	2.65	3.99	0.05	<0.02	0.02	0.021	0.07	10.7	5.2	0.07	1010	1.66
CC106913		0.78	19.5	1.94	2.48	<0.05	<0.02	0.02	0.021	0.06	10.3	1.3	0.03	172	2.19
CC106914		0.62	11.9	1.43	2.62	<0.05	<0.02	0.02	0.016	0.06	6.7	1.9	0.03	450	1.54
CC106915		0.90	17.2	2.10	3.55	<0.05	<0.02	0.02	0.021	0.05	10.9	1.5	0.04	446	2.30
CC106916		1.23	11.1	2.14	4.45	<0.05	<0.02	0.02	0.016	0.05	7.6	1.3	0.05	101	2.11
CC106917		1.36	16.8	1.91	3.02	<0.05	<0.02	0.04	0.274	0.04	7.9	0.9	0.03	99	2.13
CC106918		3.01	32.1	1.68	3.67	<0.05	<0.02	0.04	0.038	0.06	12.6	6.6	0.10	218	1.53
CC106919		1.12	25.3	1.04	1.40	<0.05	<0.02	0.02	0.025	0.03	1.9	2.4	0.07	71	1.27
CC106920		1.04	43.0	2.56	2.48	<0.05	0.02	0.18	0.036	0.07	9.6	10.0	0.22	403	3.53
CC106921		3.29	65.7	2.95	3.83	<0.05	<0.02	0.03	0.068	0.06	6.4	10.8	0.23	145	2.72
CC106922		0.40	16.3	1.96	3.75	<0.05	<0.02	0.03	0.019	0.03	7.2	3.6	0.06	68	1.71



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CERTIFICATE OF ANALYSIS WH11090302

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
CC55338		0.21	2.1	340	3.4	3.5	<0.001	0.04	0.47	0.2	0.2	0.2	8.7	<0.01	0.01
CC55339		0.68	17.1	620	25.5	11.9	0.001	0.03	5.09	1.3	0.9	1.3	11.7	<0.01	0.06
CC55340		0.29	4.8	370	6.7	6.7	0.001	<0.01	1.81	0.6	0.4	2.1	10.1	<0.01	0.03
CC55341		0.82	12.7	530	54.8	23.1	0.001	0.03	8.58	1.7	0.8	2.6	23.3	<0.01	0.13
CC55342		0.33	2.2	210	8.9	3.6	0.001	<0.01	1.15	0.3	0.2	0.3	8.4	<0.01	0.01
CC55343		0.32	14.0	560	41.7	10.6	0.001	0.01	4.84	0.6	0.7	1.1	9.6	<0.01	0.07
CC55344		0.18	8.8	650	17.5	6.5	0.004	0.02	1.78	0.4	0.9	0.9	13.7	<0.01	0.11
CC55440		0.15	6.9	490	10.6	11.4	0.001	<0.01	1.66	0.5	0.2	0.3	5.2	<0.01	0.02
CC55441		0.35	13.7	730	15.3	14.2	0.001	0.01	1.57	1.1	0.5	0.6	9.9	<0.01	0.03
CC55442		0.97	17.5	900	24.7	11.5	0.001	0.02	2.26	1.8	0.8	0.6	8.6	<0.01	0.07
CC55443		0.61	13.0	660	14.8	8.5	0.001	0.03	0.87	1.5	0.6	0.3	38.3	<0.01	0.03
CC55444		0.31	31.2	860	24.1	8.1	0.001	0.02	7.05	2.9	0.9	0.4	16.8	<0.01	0.04
CC55445		0.31	19.9	690	18.2	8.7	0.001	0.01	1.85	1.2	0.7	0.4	11.7	<0.01	0.04
CC55446		0.18	12.7	530	9.1	6.0	0.002	<0.01	1.89	0.6	1.0	0.4	10.6	<0.01	0.04
CC55447		0.15	20.3	790	13.2	13.6	0.002	0.01	2.41	0.8	1.6	0.4	22.9	<0.01	0.07
CC55448		0.25	39.8	550	25.2	9.9	0.003	<0.01	6.38	2.4	2.8	0.4	19.1	<0.01	0.08
CC55449		0.22	31.4	660	22.9	12.5	0.001	0.01	4.59	0.8	1.8	0.6	18.5	<0.01	0.09
CC55450		0.84	21.3	560	23.8	15.1	0.001	<0.01	3.34	2.3	0.6	0.8	17.2	<0.01	0.19
CC106901		0.23	26.1	590	18.9	7.6	0.001	0.02	3.38	1.2	1.6	0.4	19.4	<0.01	0.09
CC106902		0.70	23.4	510	17.2	16.7	0.001	<0.01	2.50	2.3	1.6	0.5	20.1	<0.01	0.10
CC106903		0.65	19.8	650	23.8	9.5	0.001	<0.01	3.57	1.8	0.9	0.8	9.5	<0.01	0.07
CC106904		0.25	13.1	420	18.3	12.0	0.002	<0.01	1.74	0.5	0.4	0.7	16.7	<0.01	0.04
CC106905		0.78	20.9	630	19.7	16.7	0.001	<0.01	3.30	2.1	1.0	0.7	16.3	<0.01	0.08
CC106906		0.41	25.6	530	31.2	9.0	0.001	<0.01	3.93	1.5	1.0	0.7	15.9	<0.01	0.07
CC106907		0.41	8.5	390	12.5	7.7	0.001	<0.01	0.84	0.7	0.5	0.4	16.6	<0.01	0.02
CC106908		1.04	16.8	500	17.4	13.7	0.001	0.01	2.58	2.2	1.2	0.7	17.6	<0.01	0.07
CC106909		0.73	12.1	760	18.3	13.2	0.001	0.02	1.67	1.6	1.4	0.8	18.6	<0.01	0.06
CC106910		0.41	59.4	1500	31.8	19.2	0.003	0.14	3.98	2.1	7.4	0.6	131.5	<0.01	0.11
CC106911		0.62	25.0	400	16.9	14.7	0.001	<0.01	2.30	2.0	1.0	0.5	22.3	<0.01	0.06
CC106912		0.43	14.9	460	36.4	18.0	<0.001	0.03	1.96	1.0	0.5	0.7	17.4	<0.01	0.06
CC106913		0.20	18.6	420	37.7	7.7	<0.001	0.01	5.48	0.5	0.5	4.2	11.0	<0.01	0.06
CC106914		0.42	7.1	220	20.0	9.9	<0.001	0.01	1.28	0.8	0.4	0.5	8.3	<0.01	0.03
CC106915		0.39	12.2	390	20.6	9.8	<0.001	0.01	1.91	0.7	0.7	0.8	9.7	<0.01	0.05
CC106916		0.52	7.4	410	11.8	8.6	<0.001	0.02	1.97	0.7	0.5	0.7	5.1	<0.01	0.05
CC106917		0.30	8.8	440	361	5.5	<0.001	0.04	5.46	0.4	1.7	4.3	10.2	<0.01	0.05
CC106918		0.44	23.2	570	16.3	6.3	<0.001	0.05	1.39	1.0	1.4	0.5	10.8	<0.01	0.04
CC106919		0.34	4.8	260	43.7	2.7	<0.001	0.03	17.05	0.4	0.6	2.5	7.9	<0.01	0.07
CC106920		0.41	26.4	730	24.8	6.9	0.001	0.02	4.39	2.6	1.1	1.0	28.0	<0.01	0.06
CC106921		0.65	24.1	450	39.6	8.3	<0.001	0.03	3.73	1.6	1.2	1.1	17.9	<0.01	0.11
CC106922		0.48	8.7	170	10.0	3.1	<0.001	0.01	2.50	1.3	0.5	0.9	4.0	<0.01	0.05



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CERTIFICATE OF ANALYSIS WH11090302

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
CC55338		0.019	0.02	0.22	13	0.06	0.59	15	<0.5
CC55339		0.023	0.12	0.91	39	0.34	3.82	92	<0.5
CC55340		0.018	0.10	0.47	34	0.38	1.48	37	<0.5
CC55341		0.035	0.16	0.66	46	0.41	2.52	199	<0.5
CC55342		0.024	0.03	0.20	16	0.09	0.42	22	<0.5
CC55343		0.017	0.11	0.52	32	0.14	2.14	80	<0.5
CC55344		0.012	0.06	0.37	22	0.12	1.01	49	<0.5
CC55440		0.012	0.08	0.23	23	0.07	1.34	34	<0.5
CC55441		0.009	0.10	0.71	34	0.13	5.30	62	<0.5
CC55442		0.012	0.11	0.55	44	0.15	3.04	84	0.7
CC55443		0.018	0.08	0.63	19	0.09	4.31	52	2.1
CC55444		0.006	0.10	0.84	26	0.08	10.40	114	1.3
CC55445		0.013	0.08	0.58	27	0.13	3.73	80	0.5
CC55446		0.011	0.09	0.55	34	0.08	1.86	72	<0.5
CC55447		0.007	0.20	1.23	53	0.07	3.60	133	<0.5
CC55448		0.006	0.22	1.57	54	0.12	5.66	244	0.6
CC55449		0.011	0.23	1.10	88	0.14	3.81	208	<0.5
CC55450		0.016	0.12	0.61	62	0.15	2.94	136	0.6
CC106901		0.010	0.12	0.94	40	0.12	3.75	137	0.5
CC106902		0.014	0.11	0.61	62	0.13	2.84	143	0.5
CC106903		0.015	0.14	0.42	55	0.16	2.72	132	<0.5
CC106904		0.015	0.09	0.42	41	0.16	1.83	79	<0.5
CC106905		0.024	0.18	0.49	65	0.18	3.46	180	<0.5
CC106906		0.013	0.13	0.48	43	0.14	3.08	144	<0.5
CC106907		0.018	0.09	0.42	25	0.12	2.33	59	<0.5
CC106908		0.025	0.17	0.44	63	0.19	2.87	95	<0.5
CC106909		0.018	0.15	0.53	50	0.22	3.20	74	<0.5
CC106910		0.007	0.39	2.47	68	0.09	6.32	95	1.0
CC106911		0.010	0.24	0.47	48	0.19	5.81	235	<0.5
CC106912		0.021	0.16	0.43	41	0.13	2.93	245	<0.5
CC106913		0.010	0.08	0.26	31	0.10	1.40	123	<0.5
CC106914		0.013	0.08	0.28	35	0.09	1.05	83	<0.5
CC106915		0.018	0.13	0.38	53	0.16	1.84	111	<0.5
CC106916		0.023	0.11	0.33	59	0.18	1.40	56	<0.5
CC106917		0.014	0.09	0.41	39	0.13	1.44	149	<0.5
CC106918		0.018	0.11	0.94	32	0.08	3.89	377	<0.5
CC106919		0.021	0.06	0.44	15	<0.05	0.79	73	<0.5
CC106920		0.014	0.16	0.95	41	0.11	7.81	180	0.6
CC106921		0.022	0.15	0.55	49	0.17	2.13	150	<0.5
CC106922		0.011	0.11	0.25	48	0.13	1.18	51	<0.5



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CERTIFICATE OF ANALYSIS WH11090302

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg 0.02	Au- TL43 Au ppm 0.001	ME- MS41 Ag ppm 0.01	ME- MS41 Al % 0.01	ME- MS41 As ppm 0.1	ME- MS41 Au ppm 0.2	ME- MS41 B ppm 10	ME- MS41 Ba ppm 10	ME- MS41 Be ppm 0.05	ME- MS41 Bi ppm 0.01	ME- MS41 Ca % 0.01	ME- MS41 Cd ppm 0.01	ME- MS41 Ce ppm 0.02	ME- MS41 Co ppm 0.1	ME- MS41 Cr ppm 1
CC106923		0.16	0.018	0.33	1.35	233	<0.2	<10	150	0.38	20.5	0.04	0.47	22.6	5.7	17
CC106924		0.16	0.002	0.25	0.90	98.1	<0.2	<10	70	0.35	1.34	0.04	0.48	10.65	3.5	11
CC106925		0.16	0.012	0.75	0.98	324	<0.2	<10	170	0.39	3.85	0.06	2.17	20.0	6.7	13
CC106926		0.20	0.004	0.97	0.84	131.5	<0.2	<10	120	0.27	1.90	0.01	0.84	20.7	3.9	12



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
CC106923		1.36	43.7	3.22	5.50	<0.05	0.02	0.02	0.037	0.07	11.5	13.5	0.15	170	2.95
CC106924		2.04	24.6	1.93	4.03	<0.05	<0.02	0.02	0.022	0.05	5.3	6.3	0.12	116	1.66
CC106925		0.89	50.9	3.06	3.71	<0.05	<0.02	0.04	0.073	0.09	10.2	10.4	0.16	260	4.07
CC106926		0.53	33.0	3.31	3.84	<0.05	<0.02	0.04	0.111	0.06	10.4	6.8	0.08	101	2.68



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
CC106923		0.96	15.6	270	25.3	10.5	<0.001	0.02	5.02	1.8	0.5	1.3	9.3	<0.01	0.37	2.2
CC106924		1.17	9.1	270	24.9	11.2	<0.001	0.03	5.35	1.0	0.5	2.1	10.5	<0.01	0.07	0.7
CC106925		0.43	15.6	640	97.8	9.6	<0.001	0.04	28.3	1.1	0.9	8.2	14.3	<0.01	0.22	0.6
CC106926		0.47	13.1	590	111.5	6.0	<0.001	0.02	31.4	1.5	0.9	26.2	8.0	<0.01	0.08	1.6



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti	Ti	U	V	W	Y	Zn	Zr
		%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
CC106923		0.013	0.15	0.56	64	0.24	2.02	92	1.1
CC106924		0.043	0.12	0.38	46	0.22	1.46	56	0.6
CC106925		0.014	0.16	0.68	48	0.20	2.37	187	<0.5
CC106926		0.010	0.16	0.43	51	0.09	1.87	126	0.5



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Method	CERTIFICATE COMMENTS
ALL METHODS ME- MS41	NSS is non- sufficient sample. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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CERTIFICATE WH11115310

Project: Lansing - Liam

P.O. No.:

This report is for 66 Soil samples submitted to our lab in Whitehorse, YT, Canada on 22-JUN- 2011.

The following have access to data associated with this certificate:

DOUG EATON

SARAH EATON

JOAN MARIACHER

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- TL43	Trace Level Au - 25g AR	ICP- MS
ME- MS41	51 anal. aqua regia ICPMS	

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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Project: Lansing - Liam

CERTIFICATE OF ANALYSIS WH11115310

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- TL43 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
CC118361		0.14	0.002	0.33	0.48	8.8	<0.2	<10	140	0.38	0.26	0.06	0.35	8.16	4.2	7
CC118362		0.20	0.002	0.12	0.50	11.1	<0.2	<10	160	0.73	0.31	0.14	0.53	10.50	10.9	10
CC118363		0.20	0.001	0.15	0.27	8.7	<0.2	<10	130	0.26	0.20	0.07	0.21	4.80	4.9	6
CC118364		0.06	0.002	0.46	0.75	4.3	<0.2	<10	360	0.29	0.17	0.97	0.31	5.95	4.1	7
CC118365		0.18	0.001	0.11	0.32	9.6	<0.2	<10	70	0.15	0.21	0.02	0.17	9.29	4.2	8
CC118366		0.16	0.003	0.15	0.36	19.7	<0.2	<10	120	0.31	0.36	0.01	0.23	9.78	5.2	7
CC118367		0.20	0.002	0.09	0.39	14.0	<0.2	<10	110	0.22	0.24	0.01	0.16	9.05	2.9	7
CC118368		0.14	0.002	0.31	0.42	19.1	<0.2	<10	90	0.18	0.34	0.07	0.32	13.30	5.4	8
CC118369		0.12	0.003	0.48	0.75	42.5	<0.2	<10	290	0.67	0.59	0.14	1.21	18.10	9.0	11
CC118370		0.18	0.003	0.91	0.75	10.7	<0.2	<10	100	0.72	0.35	0.02	0.63	14.90	16.6	13
CC118371		0.12	<0.001	1.05	0.32	4.9	<0.2	<10	40	0.14	0.16	0.02	0.10	2.79	4.4	6
CC118372		0.12	0.047	0.74	1.05	27.3	<0.2	<10	170	0.67	0.49	0.06	1.02	15.65	9.7	21
CC118373		0.18	0.002	0.19	0.55	22.1	<0.2	<10	110	0.30	0.42	0.03	0.28	15.85	4.7	10
CC118374		0.26	0.002	0.16	0.76	69.7	<0.2	<10	100	0.22	1.09	0.03	0.27	19.65	3.1	11
CC118375		0.22	0.003	0.53	1.56	33.7	<0.2	<10	170	0.66	0.52	0.04	0.49	21.4	5.4	16
CC118376		0.18	0.005	0.24	0.81	47.2	<0.2	<10	160	0.36	0.75	0.03	0.35	19.50	5.1	14
CC118377		0.20	0.007	0.38	1.75	85.4	<0.2	<10	250	0.81	1.06	0.05	0.92	25.8	11.2	24
CC118378		0.16	0.004	0.29	0.65	31.4	<0.2	<10	100	0.25	0.51	0.04	0.36	17.10	3.5	11
CC118379		0.12	0.003	1.15	0.72	10.9	<0.2	<10	120	0.39	0.19	0.03	0.63	14.10	1.9	9
CC118380		0.14	0.011	1.59	0.68	17.5	<0.2	<10	190	0.60	0.32	0.06	0.96	36.0	10.9	22
CC118381		0.22	0.003	0.34	0.95	19.8	<0.2	<10	230	0.59	0.43	0.06	0.41	37.1	11.3	15
CC117965		0.28	0.014	0.97	4.90	27.8	<0.2	<10	850	2.08	0.90	0.14	0.89	27.3	31.1	21
CC117966		0.24	0.019	0.42	2.05	67.2	<0.2	<10	310	0.81	2.47	0.08	0.36	32.5	11.9	26
CC117967		0.36	0.024	0.93	2.90	311	<0.2	<10	410	1.74	17.80	0.13	0.32	36.3	13.1	36
CC117968		0.36	0.007	0.67	3.17	59.1	<0.2	<10	410	1.52	1.94	0.08	0.22	34.2	11.4	43
CC117969		0.30	0.005	0.49	2.54	42.4	<0.2	<10	350	1.35	1.28	0.11	0.31	27.5	16.6	30
CC117970		0.18	0.009	0.39	1.99	68.8	<0.2	<10	230	0.80	1.65	0.05	0.30	25.3	9.1	29
CC117971		0.24	0.003	0.70	1.45	50.2	<0.2	<10	180	0.61	0.98	0.03	0.48	27.0	11.7	23
CC117972		0.30	0.002	0.13	1.03	45.7	<0.2	<10	130	0.28	1.14	0.04	0.25	22.6	4.8	20
CC117973		0.28	0.004	0.13	1.14	28.3	<0.2	<10	150	0.44	0.70	0.03	0.28	24.0	5.9	20
CC117974		0.24	0.004	0.31	1.22	33.5	<0.2	<10	130	0.54	0.69	0.06	0.37	29.5	18.1	20
CC117975		0.26	0.003	0.92	1.08	16.6	<0.2	<10	240	1.19	0.54	0.07	1.70	84.6	48.8	17
CC117976		0.36	0.003	0.77	0.84	13.2	<0.2	<10	270	0.86	0.53	0.12	1.72	70.9	31.5	13
CC117977		0.18	0.002	0.22	0.68	13.3	<0.2	<10	120	0.64	0.33	0.06	0.33	31.5	11.9	13
CC117978		0.28	0.008	1.42	1.28	25.4	<0.2	<10	240	1.45	0.46	0.04	1.48	49.9	46.3	26
CC117979		0.28	0.003	0.27	1.32	23.9	<0.2	<10	180	0.69	0.47	0.04	0.55	34.0	14.9	21
CC117980		0.22	0.003	0.62	1.31	25.1	<0.2	<10	210	0.69	0.43	0.04	0.66	24.4	9.8	21
CC117981		0.26	0.005	0.32	1.23	30.1	<0.2	<10	230	0.78	0.52	0.05	0.58	30.8	15.7	18
CC117982		0.28	0.007	0.32	1.19	32.0	<0.2	<10	250	0.66	0.63	0.06	0.50	28.4	10.0	23
CC117983		0.24	0.006	0.79	1.30	23.3	<0.2	<10	150	0.61	0.47	0.05	0.36	30.4	13.6	22



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Project: Lansing - Liam

CERTIFICATE OF ANALYSIS WH11115310

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
CC118361		1.59	20.5	1.53	1.92	<0.05	<0.02	0.17	0.019	0.06	3.9	2.0	0.03	159	5.01
CC118362		1.55	35.6	2.77	1.78	<0.05	0.02	0.11	0.035	0.05	5.0	7.3	0.10	426	3.60
CC118363		0.73	27.5	1.96	1.25	<0.05	<0.02	0.18	0.016	0.04	2.3	1.3	0.03	204	4.03
CC118364		1.51	11.9	1.45	2.67	<0.05	<0.02	0.15	0.017	0.06	2.8	2.7	0.15	380	1.76
CC118365		1.36	16.1	2.80	2.52	<0.05	<0.02	0.03	0.015	0.03	4.5	0.8	0.02	544	2.49
CC118366		1.40	29.7	1.91	1.98	<0.05	<0.02	0.16	0.021	0.05	4.9	1.8	0.04	105	7.84
CC118367		0.83	16.3	1.42	2.02	<0.05	<0.02	0.04	0.017	0.05	4.4	2.3	0.04	85	8.84
CC118368		1.53	22.3	1.90	2.83	<0.05	<0.02	0.03	0.023	0.05	6.1	2.1	0.06	349	3.21
CC118369		2.26	42.7	2.60	3.00	<0.05	<0.02	0.12	0.030	0.07	8.2	7.5	0.12	589	6.04
CC118370		2.16	73.8	3.98	2.17	0.05	0.04	0.12	0.041	0.07	5.8	10.8	0.18	746	3.39
CC118371		2.06	19.9	1.69	2.11	<0.05	<0.02	0.06	0.013	0.04	1.4	1.0	0.03	162	1.66
CC118372		3.31	43.3	3.77	4.94	<0.05	<0.02	0.12	0.034	0.08	7.3	12.7	0.17	472	3.38
CC118373		2.93	36.3	2.20	3.86	<0.05	<0.02	0.05	0.026	0.06	7.5	1.8	0.05	94	4.18
CC118374		1.57	21.9	2.22	6.11	<0.05	<0.02	0.02	0.023	0.05	9.8	4.4	0.10	130	6.26
CC118375		2.54	35.2	2.78	4.27	<0.05	0.02	0.09	0.035	0.06	9.3	16.5	0.19	229	3.80
CC118376		2.50	33.9	3.00	5.46	<0.05	<0.02	0.02	0.030	0.08	9.4	7.2	0.17	160	4.50
CC118377		3.98	48.1	4.10	5.70	0.05	0.07	0.06	0.042	0.14	13.6	24.0	0.34	531	7.60
CC118378		1.73	24.6	1.83	4.18	<0.05	<0.02	0.04	0.031	0.06	8.2	3.3	0.08	165	3.70
CC118379		3.43	28.9	1.11	2.06	<0.05	<0.02	0.08	0.015	0.04	6.5	3.5	0.07	56	2.10
CC118380		2.40	118.0	4.26	2.86	0.06	0.02	0.09	0.041	0.09	19.1	6.4	0.12	669	6.24
CC118381		3.26	47.1	2.90	3.38	<0.05	0.02	0.06	0.033	0.09	17.5	11.0	0.19	681	3.29
CC117965		4.56	353	15.45	5.53	0.14	0.16	0.09	0.252	0.29	9.3	32.4	0.63	554	4.30
CC117966		6.19	128.5	6.15	6.66	0.09	0.02	0.04	0.044	0.32	15.4	19.2	0.65	518	13.60
CC117967		12.75	257	11.50	9.15	0.14	0.08	0.03	0.091	0.66	16.4	39.0	1.04	458	7.53
CC117968		11.55	223	9.26	10.10	0.18	0.08	0.02	0.109	0.83	15.7	41.2	1.32	507	5.62
CC117969		8.41	185.0	8.15	7.91	0.16	0.06	0.03	0.087	0.47	13.0	32.6	0.91	409	4.44
CC117970		5.90	61.1	4.77	7.99	0.08	0.02	0.09	0.052	0.24	13.7	23.3	0.48	301	4.02
CC117971		2.55	64.8	3.68	5.34	0.06	0.02	0.08	0.066	0.12	13.6	14.0	0.26	503	3.36
CC117972		3.18	27.6	4.08	8.71	0.07	0.02	0.03	0.031	0.11	12.4	6.7	0.20	148	4.00
CC117973		2.75	30.8	3.53	5.81	0.06	0.02	0.02	0.033	0.12	14.0	10.6	0.22	232	2.89
CC117974		3.60	47.4	3.82	4.54	0.07	0.02	0.04	0.047	0.10	14.9	13.6	0.31	905	3.78
CC117975		5.29	145.5	5.35	3.71	0.14	0.07	0.05	0.073	0.09	42.6	17.0	0.30	2330	5.96
CC117976		4.42	93.3	3.83	3.21	0.11	0.03	0.06	0.073	0.14	36.1	10.5	0.23	1630	4.53
CC117977		3.73	40.8	2.95	3.31	0.08	<0.02	0.03	0.036	0.07	16.4	6.8	0.13	543	2.85
CC117978		6.26	181.5	6.34	4.40	0.15	0.04	0.11	0.067	0.13	24.8	28.7	0.29	1050	7.23
CC117979		2.55	48.4	3.25	3.97	0.07	0.02	0.05	0.039	0.12	17.2	19.3	0.33	520	2.85
CC117980		2.72	37.1	3.16	4.20	0.06	<0.02	0.09	0.034	0.12	12.4	21.1	0.29	410	2.41
CC117981		2.18	47.7	3.07	4.10	0.07	0.03	0.07	0.037	0.11	14.9	18.9	0.26	825	2.98
CC117982		4.01	46.0	3.54	4.87	0.06	0.02	0.04	0.039	0.15	14.7	17.5	0.34	480	3.51
CC117983		3.16	49.5	3.58	3.60	0.07	0.03	0.09	0.038	0.12	15.8	20.3	0.29	620	3.61



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CERTIFICATE OF ANALYSIS WH11115310

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
CC118361		0.20	18.3	610	12.4	9.2	0.001	0.03	1.59	1.6	1.1	0.4	28.3	<0.01	0.06
CC118362		0.24	27.4	550	13.6	7.7	0.001	0.01	1.83	3.3	1.4	0.4	24.1	<0.01	0.07
CC118363		0.09	21.0	330	11.0	4.1	0.001	0.01	1.88	2.3	0.6	0.3	13.4	<0.01	0.07
CC118364		0.33	10.2	700	7.7	10.3	0.001	0.04	0.89	1.6	0.6	0.4	49.6	<0.01	0.04
CC118365		0.28	12.2	450	11.3	7.4	<0.001	<0.01	1.33	1.1	0.3	0.4	9.0	<0.01	0.03
CC118366		0.26	20.6	300	14.5	8.5	0.002	0.03	3.96	1.7	1.9	0.4	18.8	<0.01	0.10
CC118367		0.24	10.8	240	10.8	9.2	0.001	0.02	3.56	1.2	1.3	0.4	11.5	<0.01	0.06
CC118368		0.29	13.4	990	13.9	9.3	0.001	0.01	2.24	0.9	1.1	0.5	12.1	<0.01	0.09
CC118369		0.33	34.0	710	18.3	11.2	0.001	0.02	4.48	2.9	1.8	0.6	29.1	<0.01	0.09
CC118370		0.08	40.4	620	26.0	7.4	0.002	0.01	2.25	4.3	2.8	0.4	6.4	<0.01	0.09
CC118371		0.15	10.3	570	8.0	5.6	<0.001	0.02	0.94	0.8	0.6	0.3	5.3	<0.01	0.05
CC118372		0.63	23.8	990	25.7	11.3	0.001	0.06	2.09	1.4	1.8	0.6	11.1	<0.01	0.10
CC118373		0.49	17.3	450	13.7	11.4	0.001	0.03	2.81	1.4	1.0	0.7	15.7	<0.01	0.08
CC118374		0.79	15.5	430	17.3	8.9	0.001	0.01	3.74	1.3	1.4	0.8	15.8	<0.01	0.11
CC118375		0.73	20.6	860	18.0	11.7	<0.001	0.04	2.02	1.6	1.4	0.6	11.5	<0.01	0.07
CC118376		0.86	21.9	430	16.8	13.6	0.002	0.01	3.21	2.2	1.0	0.7	12.7	<0.01	0.09
CC118377		1.33	38.7	730	32.5	22.8	0.001	0.03	4.34	3.9	1.7	0.8	22.4	<0.01	0.10
CC118378		0.48	13.2	560	12.7	8.7	0.001	0.03	1.97	0.7	0.6	0.7	11.0	<0.01	0.05
CC118379		0.20	10.2	1310	7.5	7.7	<0.001	0.08	0.89	0.2	1.1	0.3	9.0	<0.01	0.02
CC118380		0.34	46.2	660	20.1	8.9	0.003	0.07	5.97	4.1	4.4	0.4	35.8	<0.01	0.23
CC118381		0.37	27.2	860	21.5	12.5	0.001	0.04	3.97	2.3	1.4	0.5	21.5	<0.01	0.11
CC117965		1.60	51.2	1710	127.0	28.7	<0.001	0.72	3.28	7.7	10.5	0.5	371	0.01	0.23
CC117966		1.33	47.0	1040	26.0	32.8	0.003	0.16	2.84	4.4	5.1	0.8	33.2	<0.01	0.41
CC117967		2.12	43.1	1220	55.6	65.7	<0.001	0.36	7.67	7.5	8.6	1.0	184.0	0.01	0.36
CC117968		2.36	36.7	1730	56.8	77.4	0.001	0.31	4.56	8.6	8.5	1.1	101.5	<0.01	0.34
CC117969		1.86	46.2	1250	49.7	46.7	<0.001	0.20	3.46	5.6	6.1	0.7	117.5	0.01	0.17
CC117970		1.94	27.3	780	21.9	27.8	<0.001	0.08	2.79	3.5	2.6	0.7	28.6	<0.01	0.15
CC117971		0.96	21.9	610	56.4	17.8	0.001	0.03	5.19	2.8	1.6	0.9	17.0	<0.01	0.09
CC117972		1.74	17.6	530	19.5	15.8	<0.001	0.02	3.32	2.1	1.2	0.9	12.0	<0.01	0.10
CC117973		1.28	22.3	490	20.8	22.7	<0.001	0.02	3.30	2.3	0.9	0.7	13.7	<0.01	0.08
CC117974		0.57	33.1	1010	34.1	13.8	0.001	0.03	3.63	2.0	1.5	0.5	15.9	<0.01	0.08
CC117975		0.10	75.1	870	69.0	11.6	0.001	0.04	5.48	4.1	3.1	0.3	27.2	0.01	0.14
CC117976		0.20	59.2	750	54.3	13.0	0.001	0.03	3.66	3.8	1.9	0.4	24.8	<0.01	0.13
CC117977		0.30	23.6	690	30.7	10.0	<0.001	0.03	1.81	1.7	1.7	0.4	12.8	<0.01	0.07
CC117978		0.35	54.5	1540	44.0	12.9	0.001	0.11	9.31	5.0	4.9	0.4	82.5	0.01	0.15
CC117979		0.65	36.3	470	21.9	13.1	0.001	0.02	3.03	3.0	1.6	0.5	19.2	<0.01	0.09
CC117980		0.45	27.6	710	21.9	15.3	0.001	0.04	2.35	1.4	1.2	0.4	13.2	<0.01	0.08
CC117981		0.66	35.3	490	21.8	13.5	0.001	0.02	3.06	3.1	1.3	0.5	16.4	<0.01	0.08
CC117982		0.52	28.9	880	23.8	17.4	0.001	0.04	3.35	2.0	1.4	0.5	22.3	<0.01	0.09
CC117983		0.77	32.4	640	22.2	12.8	0.001	0.04	3.25	2.7	1.9	0.4	25.5	<0.01	0.11



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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
CC118361		0.005	0.34	1.02	41	0.07	4.41	115	<0.5
CC118362		0.006	0.21	0.96	34	0.06	7.04	150	0.5
CC118363		<0.005	0.19	0.48	28	<0.05	4.35	83	<0.5
CC118364		0.010	0.24	0.59	34	0.08	3.45	67	<0.5
CC118365		0.013	0.17	0.36	42	0.09	1.71	85	<0.5
CC118366		0.006	0.32	0.92	51	0.08	3.68	98	<0.5
CC118367		0.006	0.31	0.64	61	0.07	2.50	52	<0.5
CC118368		0.013	0.19	0.64	42	0.10	2.43	75	<0.5
CC118369		0.013	0.38	1.89	58	0.13	10.25	150	<0.5
CC118370		<0.005	0.28	0.63	26	<0.05	4.65	190	1.1
CC118371		0.012	0.15	0.29	23	0.06	0.98	62	<0.5
CC118372		0.020	0.29	0.95	50	0.18	4.72	112	<0.5
CC118373		0.019	0.24	0.64	44	0.17	2.19	95	<0.5
CC118374		0.026	0.27	0.93	91	0.28	2.53	73	<0.5
CC118375		0.018	0.50	1.16	47	0.16	3.84	104	0.7
CC118376		0.030	0.36	0.80	64	0.17	3.17	112	<0.5
CC118377		0.029	0.59	1.40	84	0.28	5.00	217	2.1
CC118378		0.025	0.16	0.75	50	0.18	2.35	70	<0.5
CC118379		0.008	0.38	1.16	22	0.07	6.13	42	<0.5
CC118380		0.017	0.22	1.31	58	0.09	8.30	206	0.7
CC118381		0.013	0.25	0.99	39	0.09	5.73	127	0.5
CC117965		0.046	0.38	2.06	62	0.45	11.45	488	4.6
CC117966		0.062	0.68	3.92	97	0.34	7.17	152	0.7
CC117967		0.102	1.05	2.22	103	0.40	8.31	210	3.5
CC117968		0.138	1.11	1.73	122	0.26	7.32	205	3.9
CC117969		0.089	0.66	1.48	87	0.40	8.87	227	2.3
CC117970		0.074	0.50	1.13	85	0.29	5.67	115	0.7
CC117971		0.022	0.28	1.03	57	0.17	5.18	116	0.6
CC117972		0.079	0.35	0.80	103	0.32	3.04	89	1.1
CC117973		0.050	0.38	0.76	66	0.18	3.79	104	0.7
CC117974		0.021	0.40	1.00	52	0.14	5.56	147	<0.5
CC117975		<0.005	0.89	1.64	38	0.06	24.6	354	1.2
CC117976		0.009	0.50	1.40	35	0.05	15.20	285	0.6
CC117977		0.018	0.26	0.86	39	0.10	7.60	121	<0.5
CC117978		0.017	0.82	1.64	61	0.11	13.90	317	<0.5
CC117979		0.022	0.28	0.95	43	0.15	6.23	139	0.5
CC117980		0.019	0.32	0.88	44	0.15	5.27	110	<0.5
CC117981		0.018	0.29	0.96	44	0.15	7.39	115	0.7
CC117982		0.027	0.38	0.95	57	0.16	6.00	138	<0.5
CC117983		0.024	0.33	1.00	43	0.14	5.87	133	0.8



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- TL43 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
CC117984		0.22	0.004	0.22	0.88	27.5	<0.2	<10	130	0.30	0.58	0.04	0.22	23.5	6.3	21
CC117985		0.28	0.002	0.25	0.81	21.7	<0.2	<10	170	0.47	0.42	0.03	0.38	24.4	5.8	16
CC117986		0.22	0.003	0.19	1.20	16.9	<0.2	<10	170	0.70	0.39	0.03	0.38	27.9	13.5	20
CC117987		0.26	0.002	0.05	0.44	32.4	<0.2	<10	70	0.18	0.58	0.01	0.15	20.4	4.1	9
CC117988		0.28	0.005	0.39	0.83	13.9	<0.2	<10	130	0.52	0.29	0.16	1.00	42.6	12.0	17
CC118343		0.16	0.003	0.30	1.11	124.5	<0.2	<10	170	0.42	0.91	0.07	0.83	20.3	8.4	16
CC118344		0.24	0.010	0.10	0.71	48.7	<0.2	<10	70	0.14	0.54	0.02	0.12	13.75	2.9	11
CC118345		0.32	0.002	0.07	1.00	51.4	<0.2	<10	110	0.21	0.75	0.04	0.38	19.40	5.7	20
CC118346		0.24	0.002	0.24	0.90	75.5	<0.2	<10	100	0.37	2.48	0.05	0.65	16.90	5.4	14
CC118348		0.18	<0.001	0.09	0.19	3.0	<0.2	<10	10	<0.05	0.07	0.03	0.02	1.23	0.8	2
CC118350		0.20	0.004	0.65	0.67	338	<0.2	<10	60	0.25	2.80	0.04	0.43	9.64	4.5	6
CC118351		0.30	0.005	1.35	1.32	193.0	<0.2	<10	190	1.05	1.95	0.09	7.27	65.2	61.8	24
CC118352		0.30	0.010	0.97	2.04	117.5	<0.2	<10	290	1.30	2.42	0.09	1.16	47.2	14.4	31
CC118353		0.22	0.018	0.75	1.98	165.0	<0.2	<10	320	1.19	4.36	0.12	0.55	35.4	15.2	25
CC118355		0.30	0.011	1.37	2.56	362	<0.2	<10	340	0.98	2.92	0.09	0.32	32.3	13.0	35
CC118356		0.30	0.007	0.98	2.38	242	<0.2	<10	250	0.85	2.27	0.08	0.28	32.2	9.6	38
CC118357		0.28	0.002	0.28	1.38	95.4	<0.2	<10	140	0.75	0.93	0.09	0.24	23.9	7.2	23
CC118358		0.36	0.003	0.22	1.64	112.0	<0.2	<10	140	0.74	1.12	0.05	0.24	24.1	8.2	23
CC118359		0.20	0.021	0.87	1.03	1460	<0.2	<10	140	0.45	39.2	0.08	0.37	18.65	9.6	17
CC118400		0.34	0.007	0.55	1.29	317	<0.2	<10	110	0.37	2.72	0.05	0.20	23.0	5.4	26
CC118401		0.22	0.008	0.70	1.91	419	<0.2	<10	170	1.00	2.02	0.12	0.48	53.9	18.4	29
CC118403		0.28	0.009	0.36	1.54	493	<0.2	<10	140	0.61	5.65	0.11	0.51	27.9	11.1	21
CC118404		0.22	0.016	0.27	0.99	824	<0.2	<10	80	0.34	9.17	0.07	0.36	27.9	13.6	14
CC118407		0.14	0.002	0.23	0.87	34.0	<0.2	<10	70	0.26	0.51	0.03	0.11	10.45	2.1	12
CC118408		0.20	0.002	0.34	1.15	207	<0.2	<10	150	0.66	1.10	0.05	0.67	17.50	13.6	14
CC118409		0.16	0.002	0.11	0.51	35.3	<0.2	<10	90	0.16	0.64	0.04	0.27	10.90	2.4	9



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Sample Description	Method Analyte Units LOR	ME- MS41 Cs ppm 0.05	ME- MS41 Cu ppm 0.2	ME- MS41 Fe % 0.01	ME- MS41 Ga ppm 0.05	ME- MS41 Ge ppm 0.05	ME- MS41 Hf ppm 0.02	ME- MS41 Hg ppm 0.01	ME- MS41 In ppm 0.005	ME- MS41 K % 0.01	ME- MS41 La ppm 0.2	ME- MS41 Li ppm 0.1	ME- MS41 Mg % 0.01	ME- MS41 Mn ppm 5	ME- MS41 Mo ppm 0.05	ME- MS41 Na % 0.01
CC117984		3.07	28.9	3.52	5.82	0.07	<0.02	0.04	0.026	0.14	12.5	9.0	0.26	357	3.48	<0.01
CC117985		2.78	37.0	2.77	4.04	0.06	<0.02	0.04	0.033	0.09	12.7	7.4	0.16	249	3.20	<0.01
CC117986		2.74	40.6	3.17	3.60	0.06	0.03	0.05	0.035	0.13	14.5	20.9	0.28	483	2.76	<0.01
CC117987		2.09	22.0	2.27	6.09	<0.05	<0.02	0.02	0.024	0.06	10.7	1.8	0.05	172	3.36	<0.01
CC117988		1.45	49.5	2.78	3.00	0.08	0.03	0.05	0.027	0.08	21.1	13.5	0.25	665	3.39	<0.01
CC118343		1.31	74.9	2.05	4.20	0.05	<0.02	0.04	0.029	0.05	10.6	10.2	0.22	211	3.55	<0.01
CC118344		1.44	15.6	2.25	5.68	<0.05	<0.02	0.04	0.018	0.04	6.9	2.3	0.06	122	2.74	<0.01
CC118345		1.49	19.9	3.21	5.92	0.06	<0.02	0.03	0.026	0.06	8.7	11.1	0.16	455	3.02	<0.01
CC118346		1.27	20.9	2.26	3.37	0.05	0.02	0.06	0.043	0.05	8.7	10.1	0.21	180	2.39	<0.01
CC118348		0.10	2.4	0.34	1.08	<0.05	<0.02	0.02	<0.005	0.02	0.7	0.2	0.01	15	0.15	0.01
CC118350		1.31	32.0	1.65	2.86	<0.05	<0.02	0.02	0.018	0.03	5.1	3.1	0.09	73	2.72	0.01
CC118351		4.40	160.0	9.16	3.29	0.20	0.08	0.15	0.077	0.08	28.5	10.7	0.28	1880	3.45	<0.01
CC118352		10.00	157.0	8.18	6.60	0.17	0.04	0.05	0.083	0.37	25.3	20.9	0.71	562	7.12	0.01
CC118353		7.93	92.4	5.98	6.55	0.11	0.03	0.05	0.070	0.28	17.3	27.2	0.64	525	5.21	<0.01
CC118355		11.85	167.5	11.50	8.23	0.20	0.04	0.05	0.138	0.48	15.0	27.4	0.98	618	5.35	<0.01
CC118356		7.33	169.5	10.80	8.21	0.20	0.04	0.04	0.147	0.33	15.2	28.5	0.92	541	5.03	<0.01
CC118357		4.29	51.0	3.73	6.01	0.08	<0.02	0.04	0.041	0.14	12.3	15.4	0.40	314	3.34	<0.01
CC118358		3.48	53.1	3.82	5.84	0.07	<0.02	0.05	0.041	0.10	12.8	23.0	0.39	300	3.96	<0.01
CC118359		3.23	53.8	3.92	3.84	0.06	0.02	0.08	0.052	0.09	9.2	13.0	0.28	546	2.91	<0.01
CC118400		5.38	70.0	5.98	6.18	0.09	<0.02	0.06	0.031	0.12	11.7	11.6	0.38	321	4.47	<0.01
CC118401		5.88	98.7	4.32	6.05	0.11	0.02	0.11	0.040	0.12	24.3	28.0	0.50	707	4.57	<0.01
CC118403		2.84	71.9	3.22	4.75	<0.05	0.02	0.04	0.048	0.06	11.9	13.9	0.37	323	5.41	0.02
CC118404		3.46	213	4.00	3.07	0.06	0.03	0.02	0.069	0.08	13.3	16.4	0.35	482	20.5	0.01
CC118407		2.00	26.7	1.74	3.63	<0.05	<0.02	0.05	0.018	0.05	5.6	4.5	0.14	65	1.96	0.02
CC118408		2.78	44.6	2.60	3.35	<0.05	<0.02	0.03	0.034	0.06	8.2	9.1	0.16	1020	7.10	0.01
CC118409		1.60	16.0	1.39	3.73	<0.05	<0.02	0.02	0.015	0.05	5.6	2.3	0.07	72	2.37	0.02



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Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm 0.05	ME- MS41 Ni ppm 0.2	ME- MS41 P ppm 10	ME- MS41 Pb ppm 0.2	ME- MS41 Rb ppm 0.1	ME- MS41 Re ppm 0.001	ME- MS41 S % 0.01	ME- MS41 Sb ppm 0.05	ME- MS41 Sc ppm 0.1	ME- MS41 Se ppm 0.2	ME- MS41 Sn ppm 0.2	ME- MS41 Sr ppm 0.2	ME- MS41 Ta ppm 0.01	ME- MS41 Te ppm 0.01	ME- MS41 Th ppm 0.2
CC117984		1.02	21.1	560	17.5	19.7	0.001	0.04	2.56	2.0	1.2	0.6	14.8	<0.01	0.09	1.1
CC117985		0.45	20.6	630	17.3	13.5	0.001	0.02	2.54	1.5	1.1	0.5	14.4	<0.01	0.09	0.5
CC117986		0.68	31.7	440	19.3	13.9	0.001	0.02	2.38	2.5	1.3	0.4	16.4	<0.01	0.09	2.4
CC117987		0.92	12.9	340	12.9	10.7	<0.001	<0.01	2.68	1.7	0.8	0.7	7.2	<0.01	0.08	1.9
CC117988		0.60	42.0	840	13.2	7.2	0.001	0.02	2.29	3.1	1.3	0.3	23.1	<0.01	0.08	3.9
CC118343		0.48	31.5	550	15.9	8.3	0.003	0.02	4.39	1.1	1.3	0.9	11.4	<0.01	0.05	0.3
CC118344		0.46	8.3	410	14.0	9.5	<0.001	0.01	3.54	0.8	0.6	0.8	6.3	<0.01	0.06	<0.2
CC118345		0.43	13.3	640	37.0	10.5	<0.001	0.02	3.61	0.8	1.0	1.2	10.1	<0.01	0.08	0.2
CC118346		0.36	19.5	530	20.7	7.9	0.001	0.01	4.01	1.0	1.0	0.6	9.4	<0.01	0.08	0.5
CC118348		0.16	0.9	140	2.0	0.7	<0.001	<0.01	0.81	0.2	0.2	<0.2	7.7	<0.01	0.01	<0.2
CC118350		0.30	7.3	370	68.2	3.1	<0.001	0.03	30.7	0.6	1.4	3.6	10.7	<0.01	0.06	<0.2
CC118351		0.39	217	1970	45.2	9.0	0.001	0.12	7.89	7.1	6.1	0.8	67.8	0.01	0.21	5.7
CC118352		1.26	48.3	1600	32.6	31.6	0.001	0.28	8.17	5.2	5.7	1.6	111.5	0.01	0.19	4.9
CC118353		1.02	36.4	990	52.6	28.4	0.001	0.12	8.51	2.9	4.1	2.0	141.5	0.01	0.43	1.8
CC118355		1.92	35.0	1310	117.5	44.0	<0.001	0.27	24.8	5.8	6.4	4.1	139.5	0.01	0.29	5.6
CC118356		2.25	28.3	1440	66.5	35.4	0.001	0.24	5.59	5.8	6.4	1.0	167.5	0.01	0.26	5.0
CC118357		0.97	20.7	750	25.4	20.1	<0.001	0.04	3.23	2.0	1.9	0.7	28.2	<0.01	0.11	0.6
CC118358		0.57	23.5	650	25.2	20.4	<0.001	0.04	3.38	1.8	2.0	0.8	18.3	<0.01	0.12	0.5
CC118359		0.57	19.8	780	85.0	13.3	0.001	0.05	8.15	1.7	1.7	1.7	19.4	<0.01	0.13	1.0
CC118400		0.66	18.4	1440	41.7	17.4	0.001	0.09	4.45	1.9	2.7	0.8	22.6	<0.01	0.28	0.7
CC118401		0.54	42.0	1160	37.6	14.4	<0.001	0.04	4.18	2.3	2.1	1.0	17.6	<0.01	0.17	0.7
CC118403		0.79	36.7	700	49.3	9.5	<0.001	0.04	6.78	2.1	1.4	1.7	12.4	<0.01	0.17	1.4
CC118404		0.55	60.3	640	114.5	9.1	<0.001	0.04	2.76	2.1	2.2	0.5	5.8	<0.01	0.18	3.8
CC118407		0.43	8.2	690	14.5	7.8	<0.001	0.07	1.31	0.3	1.3	0.5	8.6	<0.01	0.06	<0.2
CC118408		0.25	22.8	1110	24.3	11.9	0.001	0.10	3.26	0.4	1.4	0.6	11.4	<0.01	0.08	0.2
CC118409		0.17	9.2	600	8.8	7.8	<0.001	0.05	1.11	0.2	0.7	0.6	9.5	<0.01	0.07	<0.2



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CERTIFICATE OF ANALYSIS WH11115310

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
CC117984		0.054	0.28	0.73	65	0.22	3.26	98	0.5
CC117985		0.018	0.25	0.80	44	0.13	4.21	92	<0.5
CC117986		0.020	0.28	0.75	41	0.13	4.69	131	0.7
CC117987		0.019	0.21	0.46	72	0.17	2.50	66	<0.5
CC117988		0.030	0.16	1.42	38	0.17	8.70	142	0.8
CC118343		0.019	0.16	1.47	45	0.24	4.51	108	<0.5
CC118344		0.013	0.22	0.41	56	0.17	1.57	52	<0.5
CC118345		0.016	0.19	0.62	57	0.17	2.46	89	<0.5
CC118346		0.017	0.14	0.87	36	0.15	3.51	137	0.5
CC118348		0.017	0.02	0.18	11	<0.05	0.20	5	<0.5
CC118350		0.027	0.08	1.15	31	0.14	3.29	50	<0.5
CC118351		0.012	0.35	3.03	83	0.14	35.8	761	1.3
CC118352		0.065	0.67	3.40	91	0.30	10.75	241	1.1
CC118353		0.051	0.45	2.11	65	0.50	9.14	200	0.6
CC118355		0.083	0.70	1.93	97	0.44	9.42	225	1.5
CC118356		0.080	0.51	1.69	102	0.36	8.65	194	1.4
CC118357		0.042	0.26	1.01	66	0.25	4.73	105	<0.5
CC118358		0.022	0.31	1.23	65	0.19	4.98	124	<0.5
CC118359		0.019	0.23	0.87	46	0.20	4.09	118	<0.5
CC118400		0.038	0.31	1.45	78	0.20	6.00	103	<0.5
CC118401		0.035	0.34	2.04	70	0.30	7.95	137	<0.5
CC118403		0.031	0.22	2.31	58	0.38	5.08	126	0.5
CC118404		0.018	0.23	3.36	36	0.65	6.28	126	1.0
CC118407		0.016	0.15	0.78	34	0.15	2.05	38	<0.5
CC118408		0.009	0.37	2.63	40	0.13	5.46	119	<0.5
CC118409		0.010	0.15	0.61	36	0.16	1.76	39	<0.5



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Project: Lansing - Liam

CERTIFICATE OF ANALYSIS WH11115310

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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CERTIFICATE WH11115585

Project: Lansing - Liam

P.O. No.:

This report is for 6 Rock samples submitted to our lab in Whitehorse, YT, Canada on 22-JUN- 2011.

The following have access to data associated with this certificate:

DOUG EATON

SARAH EATON

JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
CRU- 31	Fine crushing - 70% <2mm
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- TL44	Trace Level Au - 50 g AR	ICP- MS
ME- MS41	51 anal. aqua regia ICPMS	

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH11115585

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- TL44 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
I079020		0.46	0.007	0.32	2.75	6.9	<0.2	<10	530	0.93	0.65	0.40	0.20	42.4	7.7	36
I079021		0.36	0.004	0.24	1.26	3.5	<0.2	<10	280	0.30	0.19	0.24	0.14	30.3	4.4	19
I079022		0.43	0.015	0.94	0.69	2.3	<0.2	<10	270	0.27	4.37	0.36	0.42	13.40	6.0	24
I079023		0.15	0.007	0.92	0.63	3.4	<0.2	<10	230	0.54	0.18	0.06	0.71	17.55	2.4	29
I079024		0.62	<0.001	0.43	1.03	9.7	<0.2	<10	480	0.72	0.26	0.02	0.90	53.7	8.8	18
I079025		0.25	0.005	0.28	0.43	3.0	<0.2	<10	70	0.14	1.14	0.03	0.06	8.22	1.7	14



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CERTIFICATE OF ANALYSIS WH11115585

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
I079020		6.35	86.9	4.14	10.25	0.17	0.12	<0.01	0.038	0.68	19.6	29.0	1.08	449	2.28
I079021		1.92	60.1	2.06	4.28	0.11	0.04	<0.01	0.015	0.33	14.9	21.1	0.67	233	1.66
I079022		0.61	80.4	3.21	3.53	0.16	0.13	0.01	0.042	0.08	6.6	12.7	0.50	267	3.00
I079023		1.52	34.7	1.97	3.04	0.10	0.25	0.02	0.023	0.20	9.8	30.2	0.14	160	0.64
I079024		1.99	79.5	3.29	3.33	0.13	0.20	0.03	0.040	0.29	27.2	17.4	0.23	249	5.20
I079025		0.57	75.2	3.66	2.24	0.10	0.09	0.01	0.023	0.07	3.8	6.1	0.34	135	0.70
															<0.01



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CERTIFICATE OF ANALYSIS WH11115585

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm 0.05	ME- MS41 Ni ppm 0.2	ME- MS41 P ppm 10	ME- MS41 Pb ppm 0.2	ME- MS41 Rb ppm 0.1	ME- MS41 Re ppm 0.001	ME- MS41 S % 0.01	ME- MS41 Sb ppm 0.05	ME- MS41 Sc ppm 0.1	ME- MS41 Se ppm 0.2	ME- MS41 Sn ppm 0.2	ME- MS41 Sr ppm 0.2	ME- MS41 Ta ppm 0.01	ME- MS41 Te ppm 0.01	ME- MS41 Th ppm 0.2
I079020		0.61	26.0	600	7.1	63.1	0.001	0.71	0.62	7.9	3.4	0.5	63.4	<0.01	0.19	7.6
I079021		<0.05	16.3	290	9.6	17.3	0.002	0.22	0.57	2.6	1.3	0.2	20.5	<0.01	0.05	5.6
I079022		0.51	28.2	270	34.4	3.9	0.002	0.87	1.97	2.0	2.7	2.1	48.6	<0.01	0.17	2.3
I079023		0.18	24.1	240	4.8	15.0	<0.001	0.33	1.16	1.6	1.3	0.3	8.6	<0.01	0.09	1.9
I079024		<0.05	42.5	530	12.4	15.5	0.003	0.06	2.06	3.5	3.5	0.4	61.8	<0.01	0.10	5.3
I079025		0.11	3.2	120	5.5	5.3	<0.001	0.08	0.29	2.2	4.3	0.2	14.1	<0.01	0.08	1.1



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CERTIFICATE OF ANALYSIS WH11115585

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
I079020		0.092	0.55	0.98	92	0.23	7.67	84	4.4
I079021		0.007	0.18	1.07	34	0.06	7.82	43	1.2
I079022		0.063	0.08	0.76	37	0.43	8.73	76	4.3
I079023		0.016	0.23	0.79	30	0.13	3.91	104	11.4
I079024		<0.005	0.24	0.70	38	<0.05	9.62	230	8.3
I079025		0.008	0.07	0.20	25	0.06	2.47	22	3.1



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CERTIFICATE OF ANALYSIS WH11115585

Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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CERTIFICATE WH11149865

Project: Lansing - Liam

P.O. No.:

This report is for 96 Soil samples submitted to our lab in Whitehorse, YT, Canada on 3- AUG- 2011.

The following have access to data associated with this certificate:

DOUG EATON

SARAH EATON

JOAN MARIACHER

SAMPLE PREPARATION

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

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Au- TL43	Trace Level Au - 25g AR	ICP- MS
ME- MS41	51 anal. aqua regia ICPMS	

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Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH11149865

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- TL43 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ10631		0.14	<0.001	0.11	0.57	2.0	<0.2	<10	60	0.12	0.09	0.06	0.19	5.79	1.0	4
ZZ10632		0.18	0.003	0.90	1.06	35.0	<0.2	<10	220	0.76	0.67	0.06	1.68	37.2	9.8	19
ZZ10633		0.20	0.002	0.47	0.90	30.7	<0.2	<10	140	0.48	0.80	0.05	0.49	41.9	9.7	20
ZZ10634		0.14	0.002	0.36	1.48	30.2	<0.2	<10	290	0.57	0.82	0.07	0.73	50.9	12.1	23
ZZ10635		0.10	0.001	0.09	0.25	2.0	<0.2	<10	30	0.07	0.08	0.05	0.09	3.51	2.6	3
ZZ10636		0.24	0.012	0.58	3.87	33.2	<0.2	<10	590	3.74	1.62	0.07	0.74	50.6	73.2	41
ZZ10637		0.12	0.002	0.31	1.07	12.1	<0.2	<10	120	0.35	0.38	0.04	0.58	16.10	2.7	19
ZZ10638		0.14	0.005	0.43	2.11	38.9	<0.2	<10	230	1.14	1.17	0.06	0.40	25.2	10.6	29
ZZ10639		0.18	0.012	0.80	3.66	82.2	<0.2	<10	410	1.80	1.93	0.19	0.41	39.2	21.4	34
ZZ10640		0.16	0.020	0.71	2.94	320	<0.2	<10	220	1.20	6.19	0.07	0.17	27.3	9.0	35
ZZ10641		0.24	0.014	0.79	2.82	710	<0.2	<10	400	1.00	4.12	0.04	0.32	38.9	10.3	37
ZZ10642		0.20	0.014	0.59	2.75	163.5	<0.2	<10	340	0.97	1.71	0.08	0.34	37.5	14.7	32
ZZ10643		0.16	0.035	1.94	2.11	122.0	<0.2	<10	350	0.45	4.13	0.03	0.43	60.1	15.7	42
ZZ10644		0.24	0.005	0.56	1.67	221	<0.2	<10	130	1.00	2.36	0.45	0.98	58.2	10.0	9
ZZ10645		0.20	0.008	0.29	1.30	270	<0.2	<10	460	1.02	7.44	0.33	3.47	45.1	12.4	10
ZZ10646		0.18	0.026	1.87	2.58	914	<0.2	<10	320	2.89	13.70	0.13	3.88	56.2	43.3	27
ZZ10647		0.20	0.006	0.30	1.78	99.5	<0.2	<10	140	0.75	1.48	0.07	0.45	29.2	19.0	25
ZZ10648		0.20	0.008	0.72	1.13	128.5	<0.2	<10	130	0.34	1.86	0.05	0.35	19.25	4.3	22
ZZ10649		0.22	0.021	1.11	1.88	356	<0.2	<10	170	0.97	3.95	0.06	0.47	21.6	6.3	33
ZZ10650		0.22	0.023	3.79	1.85	486	<0.2	<10	100	0.93	5.86	0.11	1.12	24.6	8.6	27
ZZ10651		0.22	0.012	0.73	2.13	276	<0.2	<10	150	1.42	2.88	0.11	1.41	29.1	15.3	19
ZZ10652		0.22	0.017	0.76	1.75	1350	<0.2	<10	270	0.85	7.87	0.13	1.30	32.4	7.1	20
ZZ10653		0.24	0.003	0.62	0.87	336	<0.2	<10	80	0.22	6.20	0.05	0.21	18.60	4.3	17
ZZ10654		0.28	0.008	0.92	1.81	887	<0.2	<10	100	0.71	10.20	0.17	0.85	37.6	11.9	16
ZZ10655		0.18	0.009	1.08	1.01	771	<0.2	<10	140	0.42	12.65	0.11	1.13	23.1	8.7	16
ZZ10656		0.14	0.003	0.20	0.87	98.9	<0.2	<10	110	0.17	1.85	0.07	0.20	15.40	3.0	14
ZZ10657		0.22	0.056	4.94	2.66	709	<0.2	<10	230	1.11	4.22	0.13	0.84	51.3	8.1	46
ZZ10658		0.12	0.021	0.89	1.72	1890	<0.2	<10	180	0.64	18.90	0.14	0.44	24.2	8.5	24
ZZ10659		0.14	0.026	1.28	1.86	3100	<0.2	<10	160	0.56	16.50	0.12	0.48	30.4	8.3	25
ZZ10660		0.14	0.020	2.71	1.49	2680	<0.2	<10	130	0.57	11.00	0.12	1.20	26.3	8.1	21
ZZ10661		0.10	0.006	0.35	2.09	117.5	<0.2	<10	80	0.43	1.22	0.11	0.17	25.0	5.4	27
ZZ10662		0.16	0.009	0.51	1.86	348	<0.2	<10	100	0.68	3.04	0.12	0.32	22.0	8.4	24
DD006751		0.14	0.008	0.89	2.23	321	<0.2	<10	120	0.65	3.23	0.07	0.24	25.9	7.0	32
DD006752		0.24	0.034	3.04	1.74	284	<0.2	<10	310	1.33	2.02	0.27	1.50	51.2	16.1	14
DD006753		0.14	0.001	0.37	0.35	28.6	<0.2	<10	30	0.06	0.39	0.05	0.12	2.51	1.2	4
DD006754		0.32	0.012	0.83	1.24	330	<0.2	<10	200	0.79	2.71	0.08	0.94	42.4	16.9	22
DD006755		0.18	0.008	1.11	0.72	1300	<0.2	<10	160	0.48	6.87	0.04	0.86	22.9	13.7	14
DD006756		0.26	0.007	0.37	3.04	163.0	<0.2	<10	110	1.07	0.99	0.20	0.76	42.0	10.5	21
DD006757		0.22	0.005	0.45	0.78	94.3	<0.2	<10	80	0.32	0.97	0.04	0.45	15.05	4.6	11
DD006758		0.34	0.010	0.29	1.62	242	<0.2	<10	90	0.54	2.77	0.09	0.20	23.6	7.2	25



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CERTIFICATE OF ANALYSIS WH11149865

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
ZZ10631		0.58	14.6	0.64	2.32	0.08	<0.02	0.04	0.007	0.02	2.9	0.6	0.02	32	0.56
ZZ10632		3.48	56.6	3.18	4.83	0.12	<0.02	0.09	0.048	0.10	17.0	10.4	0.20	515	3.99
ZZ10633		5.38	44.3	4.15	5.57	0.11	<0.02	0.07	0.041	0.08	14.0	5.4	0.16	551	3.62
ZZ10634		5.35	46.0	3.36	6.09	0.13	0.02	0.03	0.039	0.14	25.4	11.8	0.24	568	5.07
ZZ10635		0.44	7.8	0.59	1.05	0.08	<0.02	0.05	0.007	0.03	1.7	0.7	0.03	80	0.43
ZZ10636		23.4	240	7.94	11.65	0.21	0.04	0.05	0.117	1.00	23.7	71.4	1.43	1360	7.41
ZZ10637		4.60	55.7	2.09	4.72	0.10	<0.02	0.06	0.030	0.12	8.0	3.2	0.15	140	2.69
ZZ10638		7.86	82.0	5.47	6.82	0.11	0.03	0.08	0.063	0.26	11.8	30.8	0.53	428	4.43
ZZ10639		11.35	314	10.50	7.99	0.18	0.07	0.04	0.126	0.50	14.8	41.0	0.95	482	6.17
ZZ10640		9.20	313	9.80	9.49	0.19	0.02	0.04	0.069	0.58	11.5	32.5	1.06	338	5.98
ZZ10641		8.16	194.0	11.45	9.00	0.24	0.04	0.03	0.075	0.66	16.0	26.0	1.50	668	4.51
ZZ10642		6.91	172.0	8.08	8.33	0.17	0.02	0.04	0.061	0.36	16.4	22.4	0.92	797	5.47
ZZ10643		12.25	331	9.36	8.01	0.23	<0.02	0.07	0.137	0.50	27.2	28.4	1.09	837	7.81
ZZ10644		6.28	17.5	3.22	6.27	0.15	0.03	0.02	0.101	0.13	25.3	32.7	0.60	566	1.06
ZZ10645		5.83	80.3	3.34	4.29	0.13	0.03	0.02	0.066	0.09	19.6	22.2	0.40	467	9.80
ZZ10646		8.58	313	7.07	4.86	0.22	0.12	0.10	0.119	0.09	34.8	26.2	0.59	928	34.8
ZZ10647		6.10	58.4	4.64	6.45	0.10	0.02	0.06	0.051	0.10	13.8	15.1	0.40	958	8.10
ZZ10648		4.81	72.0	6.09	6.02	0.11	<0.02	0.07	0.046	0.08	10.4	4.9	0.19	296	16.15
ZZ10649		5.68	187.5	14.80	8.30	0.32	0.07	0.04	0.139	0.14	11.8	15.5	0.62	334	15.65
ZZ10650		5.41	179.5	14.65	8.02	0.30	0.08	0.06	0.571	0.09	12.1	15.2	0.60	304	34.0
ZZ10651		6.22	164.0	6.74	5.66	0.18	0.08	0.06	0.086	0.09	14.1	17.5	0.83	306	37.8
ZZ10652		4.63	134.0	5.48	5.32	0.16	0.06	0.05	0.084	0.08	17.9	12.0	0.69	161	32.4
ZZ10653		1.94	45.2	2.52	4.57	0.05	<0.02	0.04	0.038	0.05	9.6	4.3	0.18	185	8.30
ZZ10654		2.85	98.2	3.33	6.25	0.10	0.05	0.04	0.053	0.06	17.5	11.6	0.49	380	6.07
ZZ10655		3.19	125.0	3.08	3.99	0.08	0.03	0.03	0.062	0.06	13.4	7.5	0.31	235	13.95
ZZ10656		1.56	30.6	1.69	4.91	0.05	<0.02	0.04	0.019	0.04	8.0	2.8	0.09	114	2.08
ZZ10657		11.20	178.5	11.85	11.10	0.28	0.08	0.08	0.062	0.48	27.0	23.1	1.19	459	4.62
ZZ10658		4.35	101.5	4.81	5.77	0.11	0.03	0.07	0.034	0.11	12.1	11.1	0.44	245	3.60
ZZ10659		5.51	145.0	5.75	6.99	0.13	0.03	0.07	0.052	0.19	16.0	14.4	0.55	281	4.11
ZZ10660		5.30	139.0	4.18	5.65	0.12	0.02	0.06	0.209	0.13	12.9	11.7	0.52	299	5.30
ZZ10661		6.76	171.5	4.27	7.07	0.11	0.03	0.15	0.024	0.13	11.5	10.5	0.53	196	3.41
ZZ10662		6.32	150.0	5.37	7.00	0.12	0.02	0.04	0.044	0.15	11.3	17.2	0.64	239	4.63
DD006751		10.55	173.0	6.55	9.81	0.13	0.04	0.12	0.084	0.18	13.1	13.7	0.66	304	5.19
DD006752		7.77	89.3	4.14	5.73	0.10	0.03	0.12	0.079	0.07	23.4	11.5	0.32	2090	29.3
DD006753		0.65	15.6	0.75	1.81	<0.05	<0.02	0.03	0.009	0.03	1.4	0.6	0.06	27	1.20
DD006754		4.24	183.0	6.99	4.45	0.14	0.04	0.04	0.147	0.24	22.4	10.7	0.27	660	57.2
DD006755		3.16	143.0	5.26	2.85	0.12	0.02	0.05	0.096	0.10	12.9	4.9	0.19	535	34.0
DD006756		5.99	50.6	3.92	8.50	0.09	0.04	0.10	0.050	0.09	18.5	16.8	0.43	307	4.97
DD006757		2.90	79.7	2.42	3.46	0.05	<0.02	0.04	0.041	0.06	7.6	6.3	0.17	143	6.44
DD006758		6.95	165.5	4.49	6.13	0.10	0.02	0.03	0.031	0.12	10.4	16.0	0.51	227	4.55



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01
ZZ10631		0.26	2.5	670	3.3	2.0	0.001	0.05	0.25	0.2	<0.2	0.2	8.8	<0.01	<0.01
ZZ10632		0.44	27.6	820	36.0	16.2	0.001	0.07	3.18	1.5	1.1	0.8	14.4	<0.01	0.07
ZZ10633		0.41	24.4	1170	21.3	12.4	0.002	0.09	3.24	1.1	1.0	0.8	10.9	<0.01	0.06
ZZ10634		0.54	34.4	800	27.7	23.4	0.001	0.04	2.81	2.3	1.3	1.2	15.9	<0.01	0.06
ZZ10635		0.25	2.6	470	3.0	2.2	0.001	0.04	0.25	0.3	0.4	<0.2	7.8	<0.01	<0.01
ZZ10636		1.78	67.3	1320	32.3	105.5	0.002	0.18	7.30	9.9	4.5	1.0	82.5	<0.01	0.25
ZZ10637		0.48	11.1	1120	13.6	11.6	0.001	0.10	1.55	0.2	1.6	0.7	15.5	<0.01	0.08
ZZ10638		1.66	34.4	630	35.4	31.0	0.002	0.12	3.67	4.1	2.4	0.9	34.4	<0.01	0.11
ZZ10639		2.34	70.2	1510	62.1	49.4	0.002	0.43	6.07	7.6	9.0	0.8	299	0.01	0.21
ZZ10640		1.88	32.4	1150	39.8	57.0	0.001	0.34	4.08	6.5	7.2	0.8	48.8	<0.01	0.28
ZZ10641		1.74	35.3	1000	48.8	49.9	0.002	0.43	3.86	9.4	9.2	1.2	52.1	<0.01	0.33
ZZ10642		1.71	64.6	1000	32.4	38.8	0.001	0.16	2.95	5.7	3.8	1.0	32.4	<0.01	0.24
ZZ10643		2.08	49.0	1470	52.4	51.3	0.001	0.31	2.85	9.9	8.3	0.9	16.3	<0.01	0.74
ZZ10644		1.15	6.4	670	69.9	19.6	0.001	0.01	1.01	8.4	0.3	1.5	32.3	0.01	0.04
ZZ10645		0.83	74.7	730	24.9	11.8	0.002	0.02	2.17	5.8	2.4	0.9	26.2	<0.01	0.08
ZZ10646		0.77	314	1200	87.2	14.2	0.003	0.12	10.70	10.9	11.1	2.0	24.8	0.02	0.27
ZZ10647		0.85	32.7	970	28.3	15.0	0.001	0.08	4.02	1.9	3.5	0.7	18.8	<0.01	0.16
ZZ10648		0.68	17.3	1600	24.3	12.8	0.001	0.15	5.51	1.3	8.0	0.7	27.1	<0.01	0.18
ZZ10649		1.08	30.3	3060	50.6	16.1	0.001	0.44	9.71	4.4	18.6	0.6	119.0	0.01	0.67
ZZ10650		1.15	46.4	2100	619	12.3	0.002	0.42	40.0	3.9	21.7	4.9	52.9	0.02	0.51
ZZ10651		1.00	106.5	1500	30.2	13.3	0.004	0.20	5.59	2.4	13.5	0.8	45.9	0.01	0.28
ZZ10652		0.71	76.8	1800	53.7	12.0	0.003	0.15	7.92	2.4	11.2	2.0	63.5	0.01	0.30
ZZ10653		0.35	27.0	760	45.0	8.7	<0.001	0.07	11.45	0.9	2.0	2.2	11.1	<0.01	0.07
ZZ10654		0.73	37.2	1040	72.8	11.3	0.001	0.06	17.85	3.1	2.0	3.6	17.1	0.01	0.09
ZZ10655		0.34	67.9	960	83.2	10.7	0.002	0.07	23.7	1.6	4.8	6.9	22.0	<0.01	0.09
ZZ10656		0.37	9.7	800	19.5	7.7	<0.001	0.07	3.34	0.5	1.1	1.2	11.9	<0.01	0.07
ZZ10657		1.79	55.6	2170	1225	44.9	0.001	0.45	523	9.3	6.5	49.4	148.5	0.01	0.31
ZZ10658		0.84	31.5	1190	110.0	13.6	0.001	0.12	48.8	2.1	4.1	3.3	29.6	0.01	0.25
ZZ10659		0.91	26.2	1250	177.0	20.7	0.001	0.20	60.9	2.4	5.9	5.1	37.7	<0.01	0.40
ZZ10660		0.75	27.3	930	368	15.7	<0.001	0.11	87.6	2.2	3.2	15.6	22.9	0.01	0.29
ZZ10661		1.44	20.5	1300	17.0	15.0	<0.001	0.17	4.52	2.6	3.4	0.9	21.2	0.01	0.15
ZZ10662		1.06	32.4	950	77.6	18.4	0.001	0.13	38.4	2.9	4.7	3.0	24.6	0.01	0.25
DD006751		2.49	25.5	1380	75.4	31.5	<0.001	0.18	38.3	4.0	4.4	5.7	26.6	0.01	0.52
DD006752		0.66	38.9	940	150.0	17.8	0.001	0.12	118.5	2.5	1.7	4.2	27.8	0.01	0.10
DD006753		0.09	3.4	460	8.9	3.0	<0.001	0.06	2.79	0.2	0.6	0.4	8.0	<0.01	0.02
DD006754		0.54	91.2	1320	262	25.4	0.003	0.36	121.0	2.6	4.9	2.8	58.5	0.01	0.14
DD006755		0.22	120.5	1270	121.5	12.5	0.005	0.19	73.5	0.8	5.7	8.5	31.5	<0.01	0.15
DD006756		1.94	20.4	790	22.6	16.1	0.001	0.07	7.64	3.3	1.7	1.2	23.7	0.02	0.10
DD006757		0.33	21.7	580	34.7	11.8	0.001	0.07	14.40	0.7	1.5	3.1	13.3	<0.01	0.09
DD006758		1.12	29.6	700	35.3	15.8	0.001	0.09	8.11	2.2	2.4	0.9	27.8	0.01	0.19



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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ10631		0.020	0.08	0.40	15	0.07	1.20	14	<0.5
ZZ10632		0.019	0.32	0.95	56	0.19	6.16	126	<0.5
ZZ10633		0.026	0.36	0.89	62	0.19	4.98	102	<0.5
ZZ10634		0.014	0.58	0.78	68	0.17	6.41	151	<0.5
ZZ10635		0.022	0.05	0.23	15	<0.05	0.79	14	<0.5
ZZ10636		0.143	2.10	2.31	114	0.25	17.85	281	2.3
ZZ10637		0.018	0.40	1.18	58	0.15	3.43	42	<0.5
ZZ10638		0.063	0.62	1.23	80	0.27	5.47	180	1.0
ZZ10639		0.099	0.86	2.34	96	0.43	12.15	273	3.1
ZZ10640		0.107	0.80	1.58	103	0.22	6.13	152	1.2
ZZ10641		0.107	0.81	1.87	121	0.37	8.36	207	2.7
ZZ10642		0.091	0.52	1.78	98	0.49	8.48	203	0.9
ZZ10643		0.085	0.80	3.76	120	0.48	19.70	286	0.5
ZZ10644		0.062	0.20	5.43	45	2.13	14.80	155	1.1
ZZ10645		0.043	0.25	7.42	100	0.21	13.80	313	0.8
ZZ10646		0.035	0.60	38.8	150	0.33	57.1	900	1.3
ZZ10647		0.038	0.29	2.33	65	0.36	5.84	129	<0.5
ZZ10648		0.041	0.38	3.16	114	0.25	3.52	104	<0.5
ZZ10649		0.051	0.37	5.33	97	0.23	7.35	276	2.8
ZZ10650		0.045	0.31	8.42	112	0.29	10.35	409	2.4
ZZ10651		0.047	0.38	13.55	109	0.25	19.75	422	2.0
ZZ10652		0.041	0.33	12.45	141	0.80	16.00	241	1.3
ZZ10653		0.026	0.17	1.85	67	0.27	3.15	80	<0.5
ZZ10654		0.034	0.14	2.93	58	0.40	7.42	137	1.0
ZZ10655		0.020	0.25	4.29	121	0.25	6.62	193	0.5
ZZ10656		0.022	0.16	0.71	44	0.19	2.03	42	<0.5
ZZ10657		0.087	0.85	3.43	101	0.17	12.00	481	3.7
ZZ10658		0.044	0.31	1.72	55	4.24	6.45	129	0.5
ZZ10659		0.045	0.39	1.88	58	0.43	7.72	146	0.5
ZZ10660		0.046	0.39	2.32	53	0.20	6.33	198	<0.5
ZZ10661		0.063	0.39	1.36	59	0.24	9.46	59	0.7
ZZ10662		0.056	0.36	1.55	63	0.41	5.86	103	0.7
DD006751		0.088	0.62	1.86	84	0.36	6.68	97	1.4
DD006752		0.019	0.26	4.69	42	0.28	9.82	278	0.6
DD006753		0.017	0.06	0.94	18	0.07	0.63	15	<0.5
DD006754		0.020	0.62	9.68	59	1.04	8.53	325	1.0
DD006755		0.010	0.23	7.35	169	0.18	9.06	283	<0.5
DD006756		0.057	0.21	3.36	57	0.43	4.11	185	1.0
DD006757		0.017	0.12	1.13	35	1.15	2.59	89	<0.5
DD006758		0.059	0.25	1.33	65	0.33	5.07	69	<0.5



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- TL43 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
DD006759		0.16	0.006	0.61	1.05	194.5	<0.2	<10	70	0.50	0.89	0.13	0.20	10.05	6.0	11
DD006760		0.16	0.006	1.21	1.51	758	<0.2	<10	70	0.35	9.65	0.07	0.30	15.75	3.6	24
DD006761		0.16	<0.001	0.15	0.14	1.7	<0.2	<10	10	<0.05	0.05	0.04	0.10	0.76	0.7	2
DD006762		0.20	<0.001	0.20	0.49	34.6	<0.2	<10	50	0.12	0.59	0.03	0.12	6.38	2.1	7
DD006763		0.22	<0.001	0.18	0.16	2.4	<0.2	<10	40	<0.05	0.07	0.04	0.12	1.57	1.3	2
DD006764		0.22	0.003	0.60	1.05	156.5	<0.2	<10	180	1.25	1.58	0.17	4.34	42.2	11.3	12
DD006765		0.30	0.002	0.31	0.98	50.1	<0.2	<10	110	0.41	0.65	0.05	0.64	13.80	3.8	16
DD006766		0.22	0.001	0.34	0.55	16.7	<0.2	<10	60	0.27	0.25	0.03	0.39	7.58	2.2	7
DD006767		0.26	0.004	0.73	1.14	92.4	<0.2	<10	160	0.56	0.92	0.06	1.16	18.90	4.1	23
DD006768		0.22	0.001	0.22	0.44	6.7	<0.2	<10	30	0.10	0.12	0.06	0.19	4.96	0.8	3
DD006769		0.34	0.002	0.50	0.80	60.4	<0.2	<10	90	0.49	0.52	0.06	1.80	23.9	8.3	12
DD006770		0.46	0.030	7.31	0.76	270	<0.2	<10	120	0.59	1.83	0.01	3.76	69.9	6.6	11
DD006771		0.20	0.006	2.67	0.96	121.0	<0.2	<10	100	0.65	1.01	0.04	1.30	30.3	12.5	16
ZZ17340		0.30	0.001	0.17	1.37	9.5	<0.2	<10	230	0.61	0.25	0.20	0.14	41.3	10.2	17
ZZ17341		0.36	0.001	0.24	1.51	12.7	<0.2	<10	290	0.92	0.37	0.21	0.25	62.9	14.8	17
ZZ17342		0.36	0.001	0.23	1.31	13.0	<0.2	<10	240	0.80	0.27	0.50	0.19	31.2	7.6	15
ZZ17343		0.40	0.001	0.11	1.14	14.5	<0.2	<10	200	0.49	0.42	0.11	0.28	61.9	10.7	16
ZZ17344		0.40	0.004	0.73	1.04	23.7	<0.2	<10	200	0.96	0.39	0.30	1.16	64.7	15.7	17
ZZ17345		0.36	0.001	0.16	1.08	15.8	<0.2	<10	90	0.78	0.36	0.08	0.56	59.1	17.8	15
ZZ17346		0.54	0.002	0.21	2.04	43.2	<0.2	<10	260	1.62	0.92	0.06	0.33	68.0	21.1	28
ZZ17347		0.38	0.007	0.58	2.79	81.2	<0.2	<10	210	1.36	1.41	0.54	0.63	39.9	20.7	34
ZZ17348		0.40	0.007	0.56	1.93	100.5	<0.2	<10	270	1.10	1.59	0.17	0.97	58.8	21.0	30
ZZ17349		0.38	0.004	0.56	1.70	49.2	<0.2	<10	180	0.97	1.01	0.31	0.56	49.0	19.7	26
ZZ17350		0.36	0.004	0.42	1.34	49.8	<0.2	<10	180	0.78	0.83	0.27	0.66	40.8	15.2	22
ZZ17401		0.36	0.003	0.29	0.53	18.3	<0.2	<10	160	0.78	0.36	0.21	0.49	36.3	21.6	9
ZZ17402		0.30	0.004	0.87	0.45	42.5	<0.2	<10	160	0.89	0.49	0.85	0.58	53.7	26.9	9
ZZ17403		0.40	0.004	1.06	0.96	36.7	<0.2	<10	220	0.99	0.42	0.46	0.98	40.4	20.4	18
ZZ17404		0.42	0.001	2.39	0.58	107.0	<0.2	<10	300	0.54	0.47	0.03	0.31	44.1	3.6	17
ZZ17405		0.36	0.002	0.24	0.67	17.1	<0.2	<10	50	0.27	0.18	0.06	0.17	7.66	2.0	6
ZZ17406		0.48	0.009	0.84	2.19	70.7	<0.2	<10	250	1.69	1.63	0.05	1.14	31.1	13.1	23
ZZ17407		0.20	0.002	0.19	1.01	8.6	<0.2	<10	100	0.88	0.21	0.24	0.40	17.55	7.3	10
ZZ17408		0.24	0.001	0.32	0.40	11.8	<0.2	<10	50	0.16	0.32	0.04	0.18	6.28	2.0	5
ZZ17409		0.26	0.005	0.40	0.95	43.3	<0.2	<10	380	0.54	0.95	0.15	1.82	16.00	7.1	10
ZZ17410		0.58	0.010	0.77	2.29	185.5	<0.2	<10	180	0.96	3.74	0.07	0.42	36.1	16.1	28
ZZ17411		0.44	0.004	0.51	1.44	67.9	<0.2	<10	160	0.77	1.27	0.05	0.29	23.4	6.2	21
ZZ17412		0.32	0.002	0.25	1.05	33.0	<0.2	<10	340	0.48	0.74	0.05	0.30	21.6	4.5	23
ZZ17413		0.38	0.002	0.40	1.23	27.3	<0.2	<10	230	0.45	0.56	0.06	0.41	25.6	7.4	27
ZZ17414		0.30	0.006	0.63	1.45	50.5	<0.2	<10	330	1.56	1.10	0.49	10.60	41.9	27.0	17
ZZ17415		0.24	0.004	0.86	1.45	54.0	<0.2	<10	240	2.77	0.67	0.67	23.5	43.5	48.0	17
ZZ17416		0.12	0.020	0.70	1.36	31.9	<0.2	<10	320	1.43	1.25	0.60	16.75	43.2	16.4	17



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
DD006759		3.79	113.0	1.99	3.82	0.05	<0.02	0.07	0.024	0.05	5.2	7.4	0.20	186	3.95
DD006760		4.09	147.5	5.09	6.47	0.11	0.02	0.07	0.055	0.07	8.2	8.4	0.32	120	3.70
DD006761		0.36	2.0	0.31	0.70	<0.05	<0.02	0.02	<0.005	0.02	0.4	0.2	0.01	24	0.15
DD006762		1.07	12.0	1.39	2.98	<0.05	<0.02	0.03	0.012	0.03	3.5	2.6	0.10	58	1.29
DD006763		0.40	4.0	0.46	1.03	<0.05	<0.02	0.02	<0.005	0.03	0.8	0.2	0.02	238	0.72
DD006764		4.97	41.2	4.13	3.45	0.11	0.03	0.06	0.051	0.10	21.4	8.2	0.20	289	24.0
DD006765		1.88	25.3	2.51	4.52	0.07	<0.02	0.03	0.047	0.05	7.6	4.3	0.14	322	9.35
DD006766		1.14	15.1	1.24	2.92	<0.05	<0.02	0.03	0.022	0.04	4.1	2.5	0.08	101	8.61
DD006767		3.20	39.3	3.51	5.52	0.10	0.02	0.06	0.048	0.08	10.8	9.6	0.27	183	20.4
DD006768		0.31	7.6	0.67	2.22	<0.05	<0.02	0.03	0.013	0.03	2.6	0.6	0.03	26	1.70
DD006769		2.22	29.9	2.89	3.73	0.07	0.02	0.03	0.074	0.06	11.8	5.2	0.17	473	3.03
DD006770		4.13	77.1	4.45	2.51	0.08	0.07	0.04	3.20	0.13	33.6	2.7	0.12	866	1.36
DD006771		4.96	61.5	4.94	4.10	0.06	0.02	0.06	0.414	0.08	15.3	2.7	0.08	1040	4.50
ZZ1 7340		4.36	22.9	2.72	4.72	<0.05	0.04	0.05	0.025	0.05	20.1	20.1	0.30	657	1.72
ZZ1 7341		4.03	48.2	3.31	4.68	0.07	0.08	0.04	0.023	0.06	29.3	30.1	0.38	885	2.17
ZZ1 7342		3.63	25.9	2.23	4.24	<0.05	0.07	0.03	0.025	0.06	15.3	12.9	0.22	905	1.97
ZZ1 7343		2.62	29.0	3.41	5.59	0.06	0.02	0.02	0.026	0.07	29.5	11.7	0.19	723	3.65
ZZ1 7344		3.32	65.1	3.73	3.29	0.09	0.10	0.07	0.033	0.09	33.5	17.7	0.37	950	7.87
ZZ1 7345		3.83	32.4	3.34	3.89	0.07	0.04	0.03	0.025	0.06	27.7	17.7	0.24	1140	3.01
ZZ1 7346		8.33	60.1	4.26	6.78	0.08	0.03	0.04	0.041	0.14	32.3	36.5	0.49	1350	4.85
ZZ1 7347		7.98	78.5	4.07	9.19	0.09	0.05	0.04	0.040	0.15	19.8	48.9	1.77	994	4.51
ZZ1 7348		5.22	73.5	4.56	6.91	0.08	0.02	0.05	0.049	0.13	28.8	33.8	0.58	1130	8.29
ZZ1 7349		6.29	52.3	4.01	6.57	0.08	0.02	0.07	0.046	0.11	24.5	30.9	0.56	1070	5.71
ZZ1 7350		4.60	54.8	3.60	5.20	0.07	0.02	0.06	0.037	0.10	20.1	21.1	0.43	1170	4.93
ZZ1 7401		1.95	116.0	4.28	1.99	0.08	0.05	0.06	0.039	0.07	18.9	3.5	0.08	2000	3.23
ZZ1 7402		2.54	157.0	4.67	1.74	0.09	0.12	0.14	0.057	0.09	27.6	3.4	0.18	1560	8.22
ZZ1 7403		3.78	112.0	5.06	3.17	0.09	0.10	0.14	0.054	0.10	22.6	10.1	0.33	1800	7.49
ZZ1 7404		2.13	77.5	3.47	3.14	0.10	0.02	0.08	0.082	0.18	25.7	6.5	0.22	194	24.3
ZZ1 7405		1.34	23.9	1.42	2.49	<0.05	<0.02	0.04	0.012	0.03	3.8	2.4	0.06	102	4.84
ZZ1 7406		4.46	132.0	6.65	5.43	0.13	0.08	0.06	0.065	0.14	16.4	27.1	0.51	331	24.2
ZZ1 7407		2.72	41.5	1.88	3.19	<0.05	<0.02	0.03	0.015	0.04	8.6	19.2	0.15	306	2.36
ZZ1 7408		1.49	14.2	1.04	1.94	<0.05	<0.02	0.05	0.008	0.03	3.3	2.1	0.04	43	2.79
ZZ1 7409		3.33	39.6	2.59	3.61	0.05	<0.02	0.04	0.028	0.07	7.9	8.7	0.19	211	10.65
ZZ1 7410		7.93	118.5	5.53	8.45	0.10	0.03	0.08	0.060	0.19	16.3	31.9	0.62	667	6.52
ZZ1 7411		5.15	54.1	4.23	6.68	0.07	<0.02	0.08	0.037	0.11	11.9	16.5	0.26	287	5.28
ZZ1 7412		3.68	31.7	3.50	5.41	0.06	<0.02	0.08	0.030	0.13	10.9	8.7	0.22	166	4.78
ZZ1 7413		3.53	31.2	3.71	5.91	0.06	0.02	0.04	0.031	0.16	12.9	15.6	0.39	427	3.77
ZZ1 7414		4.55	96.7	4.08	4.47	0.10	0.04	0.06	0.043	0.14	22.9	26.4	0.50	1020	12.55
ZZ1 7415		5.07	162.0	4.07	3.91	0.10	0.05	0.07	0.049	0.15	28.5	25.9	0.52	2230	13.60
ZZ1 7416		6.54	112.0	3.50	4.00	0.09	0.04	0.13	0.039	0.12	24.3	25.3	0.48	459	8.19



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Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm 0.05	ME- MS41 Ni ppm 0.2	ME- MS41 P ppm 10	ME- MS41 Pb ppm 0.2	ME- MS41 Rb ppm 0.1	ME- MS41 Re ppm 0.001	ME- MS41 S % 0.01	ME- MS41 Sb ppm 0.05	ME- MS41 Sc ppm 0.1	ME- MS41 Se ppm 0.2	ME- MS41 Sn ppm 0.2	ME- MS41 Sr ppm 0.2	ME- MS41 Ta ppm 0.01	ME- MS41 Te ppm 0.01	ME- MS41 Th ppm 0.2
DD006759		0.43	18.6	730	15.0	8.4	<0.001	0.09	3.33	0.5	1.5	1.3	19.2	<0.01	0.10	<0.2
DD006760		0.80	15.4	1090	78.2	13.9	<0.001	0.12	46.0	1.6	5.5	6.7	14.7	<0.01	0.15	0.4
DD006761		0.06	1.0	460	1.3	1.8	<0.001	0.04	0.29	0.2	0.2	0.2	6.8	<0.01	0.01	<0.2
DD006762		0.32	8.1	330	10.4	6.1	<0.001	0.05	2.77	0.6	0.6	0.6	7.4	<0.01	0.06	<0.2
DD006763		0.05	1.7	550	1.8	2.6	<0.001	0.05	0.29	0.2	0.2	0.2	7.1	<0.01	0.01	<0.2
DD006764		0.30	117.0	1000	30.1	12.7	0.002	0.18	13.40	1.0	4.3	0.9	58.3	0.01	0.21	0.6
DD006765		0.35	18.9	860	38.5	12.4	0.001	0.11	6.10	0.4	3.0	0.9	19.6	<0.01	0.09	<0.2
DD006766		0.15	11.7	560	13.6	6.2	0.001	0.08	3.53	0.3	2.0	0.4	12.4	<0.01	0.05	<0.2
DD006767		0.71	43.6	1010	24.2	13.3	0.002	0.15	14.20	0.6	6.5	1.0	29.9	<0.01	0.17	<0.2
DD006768		0.20	2.6	530	12.7	2.4	<0.001	0.06	1.12	0.3	1.0	0.2	8.3	<0.01	0.02	<0.2
DD006769		0.33	24.4	630	36.2	10.2	<0.001	0.08	7.25	1.5	1.2	0.8	13.5	<0.01	0.06	0.4
DD006770		0.17	20.9	540	1680	9.9	<0.001	0.20	61.7	4.2	2.5	6.1	19.2	<0.01	0.09	10.8
DD006771		0.29	29.6	1380	179.5	11.5	<0.001	0.12	13.45	0.8	1.9	3.3	20.3	<0.01	0.10	0.4
ZZ1 7340		0.49	17.2	900	17.9	9.4	<0.001	0.04	1.13	2.3	0.5	0.4	19.6	<0.01	0.03	1.6
ZZ1 7341		0.27	29.6	590	25.6	10.4	<0.001	0.04	1.77	2.4	0.6	0.4	24.9	<0.01	0.05	3.0
ZZ1 7342		0.56	17.0	900	20.8	11.1	<0.001	0.05	1.72	1.9	0.8	0.4	42.8	<0.01	0.05	1.4
ZZ1 7343		0.55	20.1	620	30.1	13.3	<0.001	0.03	2.52	1.6	0.8	0.5	19.7	<0.01	0.06	2.0
ZZ1 7344		0.31	47.8	570	44.2	8.5	0.001	0.04	5.47	4.6	2.0	0.4	37.2	<0.01	0.07	6.5
ZZ1 7345		0.34	24.5	890	33.6	8.4	<0.001	0.03	2.32	1.7	0.9	0.4	14.3	<0.01	0.05	2.1
ZZ1 7346		0.81	35.3	810	47.2	21.7	<0.001	0.07	4.81	2.4	1.5	0.6	22.8	<0.01	0.11	1.8
ZZ1 7347		1.51	48.0	880	45.8	26.9	0.001	0.08	8.80	4.1	1.7	0.6	44.9	<0.01	0.16	2.8
ZZ1 7348		0.89	42.9	810	63.9	18.7	<0.001	0.14	11.50	2.9	2.8	0.7	43.2	<0.01	0.21	1.9
ZZ1 7349		0.97	45.1	990	31.5	17.8	<0.001	0.06	6.10	3.2	1.3	0.6	48.1	<0.01	0.15	1.7
ZZ1 7350		0.90	44.1	920	25.2	12.8	<0.001	0.06	5.32	3.5	1.4	0.5	50.7	<0.01	0.13	2.6
ZZ1 7401		0.15	50.8	920	22.4	6.6	0.001	0.04	7.74	4.9	1.2	0.2	51.0	<0.01	0.11	2.4
ZZ1 7402		0.17	66.9	1290	26.5	7.4	0.002	0.12	8.01	5.0	2.5	0.3	84.1	0.01	0.26	3.5
ZZ1 7403		0.46	68.2	1440	26.5	10.8	0.001	0.08	7.35	5.9	2.4	0.4	58.9	0.01	0.15	2.9
ZZ1 7404		0.36	13.3	1270	77.8	12.4	0.005	0.38	15.50	2.3	10.3	0.6	80.2	<0.01	0.24	1.5
ZZ1 7405		0.30	5.5	600	5.4	4.2	<0.001	0.05	1.53	0.3	1.4	0.2	10.5	<0.01	0.05	<0.2
ZZ1 7406		1.24	84.8	1010	33.9	17.3	0.003	0.17	6.18	3.2	7.8	0.6	38.3	0.01	0.26	2.6
ZZ1 7407		0.62	25.4	610	8.0	7.4	0.001	0.06	1.13	1.0	1.8	0.3	31.8	<0.01	0.05	0.2
ZZ1 7408		0.36	6.7	380	7.6	4.1	<0.001	0.04	0.86	0.4	0.8	0.2	11.8	<0.01	0.05	<0.2
ZZ1 7409		0.63	23.9	770	20.0	8.7	0.001	0.11	3.22	1.8	3.3	0.4	36.0	<0.01	0.13	0.5
ZZ1 7410		1.89	46.4	940	45.9	28.2	<0.001	0.11	3.52	4.5	3.5	1.0	26.0	0.01	0.28	3.2
ZZ1 7411		1.81	20.4	650	23.9	19.2	0.001	0.07	2.99	2.2	2.1	0.8	26.9	<0.01	0.15	1.4
ZZ1 7412		1.28	18.9	830	18.9	19.1	0.001	0.11	2.61	1.3	1.8	0.7	21.2	<0.01	0.11	0.3
ZZ1 7413		1.52	23.4	580	21.8	20.7	0.001	0.05	2.49	2.5	1.3	0.7	22.5	<0.01	0.09	1.7
ZZ1 7414		0.93	166.5	1200	34.6	15.7	0.002	0.13	5.48	4.0	4.5	0.6	69.1	0.01	0.17	3.1
ZZ1 7415		0.67	412	1380	40.5	16.5	0.002	0.18	7.61	3.0	4.8	0.4	82.9	0.01	0.15	1.7
ZZ1 7416		0.82	147.0	1150	32.4	13.8	0.001	0.13	4.28	3.6	3.9	0.5	72.2	0.01	0.14	2.2



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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
DD006759		0.024	0.13	0.95	31	1.76	2.56	48	<0.5
DD006760		0.044	0.26	1.41	59	0.16	3.69	64	0.5
DD006761		0.012	0.04	0.12	10	<0.05	0.17	8	<0.5
DD006762		0.026	0.09	0.38	28	0.11	1.08	46	<0.5
DD006763		0.011	0.10	0.21	15	<0.05	0.24	13	<0.5
DD006764		0.014	0.69	4.43	54	0.30	12.85	584	0.6
DD006765		0.020	0.27	2.27	125	0.19	3.18	138	<0.5
DD006766		0.016	0.32	1.84	59	0.11	2.05	73	<0.5
DD006767		0.033	0.63	5.40	289	0.24	5.52	365	0.6
DD006768		0.019	0.09	0.88	18	0.06	1.28	20	<0.5
DD006769		0.017	0.24	0.99	43	0.16	4.39	228	<0.5
DD006770		0.005	0.23	1.41	23	0.05	7.22	596	4.5
DD006771		0.009	0.29	1.55	50	0.08	3.50	426	0.6
ZZ17340		0.010	0.13	0.70	29	0.11	6.75	76	0.9
ZZ17341		0.005	0.11	0.97	22	0.05	10.60	113	2.2
ZZ17342		0.011	0.15	1.25	33	0.13	8.76	72	2.2
ZZ17343		0.012	0.16	0.73	44	0.10	4.56	117	<0.5
ZZ17344		0.010	0.21	1.82	41	0.06	16.05	236	4.7
ZZ17345		0.008	0.12	0.90	28	0.07	5.08	127	1.0
ZZ17346		0.019	0.30	1.89	56	0.14	10.30	153	0.7
ZZ17347		0.058	0.29	2.28	93	0.20	11.05	228	1.6
ZZ17348		0.027	0.34	1.97	75	0.18	8.43	193	<0.5
ZZ17349		0.035	0.24	1.66	69	0.19	7.69	210	<0.5
ZZ17350		0.037	0.21	1.49	57	0.18	7.80	199	0.6
ZZ17401		0.005	0.21	1.68	23	0.07	17.00	151	0.9
ZZ17402		<0.005	0.24	2.09	27	0.07	21.1	228	3.9
ZZ17403		0.016	0.25	2.75	52	0.14	21.7	313	2.7
ZZ17404		0.013	0.37	6.75	72	0.26	8.90	83	<0.5
ZZ17405		0.021	0.12	1.05	29	0.09	1.75	31	<0.5
ZZ17406		0.040	0.73	9.67	100	0.26	10.00	356	2.7
ZZ17407		0.030	0.17	1.03	33	0.14	7.10	126	<0.5
ZZ17408		0.021	0.10	0.70	27	0.09	1.28	33	<0.5
ZZ17409		0.033	0.32	4.32	66	0.21	5.33	114	<0.5
ZZ17410		0.066	0.50	2.85	85	0.80	10.25	210	0.5
ZZ17411		0.057	0.35	1.36	75	0.63	4.30	115	0.5
ZZ17412		0.040	0.39	1.20	69	0.27	3.58	86	0.6
ZZ17413		0.058	0.42	0.92	71	0.27	3.88	107	0.6
ZZ17414		0.035	0.41	9.73	73	0.80	20.3	757	1.1
ZZ17415		0.026	0.46	11.45	66	0.18	36.7	2050	1.1
ZZ17416		0.028	0.30	5.68	57	0.19	23.9	885	1.0



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CERTIFICATE OF ANALYSIS WH11149865

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- TL43 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ17417		0.30	0.004	0.55	1.44	31.2	<0.2	<10	290	1.29	0.78	0.46	7.99	52.0	20.8	18
ZZ17418		0.18	0.003	0.85	1.34	14.0	<0.2	<10	860	0.95	0.32	0.92	2.93	28.9	13.8	18
ZZ17419		0.22	0.003	0.47	1.23	18.4	<0.2	<10	300	0.99	0.48	0.63	14.40	45.2	17.0	16
ZZ17420		0.28	0.003	0.62	0.97	7.2	<0.2	<10	510	0.51	0.26	0.14	0.57	22.0	7.1	13
ZZ17421		0.22	0.002	0.40	0.89	6.2	<0.2	<10	530	0.57	0.21	0.58	0.38	21.8	5.7	9
ZZ10701		0.48	0.003	0.23	0.89	18.4	<0.2	<10	300	0.64	0.32	0.25	0.71	41.8	12.9	15
ZZ10702		0.30	0.003	0.81	1.12	8.1	<0.2	<10	510	0.64	0.29	0.40	0.76	30.7	8.3	13
ZZ10703		0.16	0.002	0.51	1.08	11.3	<0.2	<10	380	0.54	0.30	0.45	0.55	29.5	8.4	16
ZZ10704		0.34	0.005	0.52	1.16	46.2	<0.2	<10	180	0.89	0.47	0.09	0.96	39.8	15.0	19
ZZ10705		0.38	0.003	0.15	1.48	15.0	<0.2	<10	200	0.70	0.26	0.14	0.33	32.4	12.0	23
ZZ10706		0.42	0.002	0.41	0.66	13.3	<0.2	<10	420	0.51	0.17	0.20	0.42	19.00	7.9	11
ZZ10707		0.42	0.002	0.14	1.03	10.2	<0.2	<10	430	0.60	0.23	0.17	0.24	30.9	11.1	18
ZZ10708		0.22	<0.001	0.04	0.28	1.2	<0.2	<10	40	0.06	0.05	0.02	0.02	9.36	1.0	3
ZZ10709		0.24	0.001	0.47	1.28	7.6	<0.2	<10	410	1.13	0.31	0.91	0.31	20.0	8.8	13
ZZ10710		0.34	<0.001	0.05	0.69	5.6	<0.2	<10	90	0.20	0.21	0.05	0.24	15.40	2.7	6
ZZ10711		0.30	0.002	0.17	0.92	6.6	<0.2	<10	210	0.82	0.27	0.25	0.27	17.60	8.3	13



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CERTIFICATE OF ANALYSIS WH11149865

Sample Description	Method Analyte Units LOR	ME- MS41 Cs ppm 0.05	ME- MS41 Cu ppm 0.2	ME- MS41 Fe % 0.01	ME- MS41 Ga ppm 0.05	ME- MS41 Ge ppm 0.05	ME- MS41 Hf ppm 0.02	ME- MS41 Hg ppm 0.01	ME- MS41 In ppm 0.005	ME- MS41 K % 0.01	ME- MS41 La ppm 0.2	ME- MS41 Li ppm 0.1	ME- MS41 Mg % 0.01	ME- MS41 Mn ppm 5	ME- MS41 Mo ppm 0.05	ME- MS41 Na % 0.01
ZZ17417		5.63	84.1	3.96	4.06	0.10	0.05	0.10	0.040	0.11	25.4	29.0	0.48	685	7.16	0.01
ZZ17418		3.62	57.9	3.36	3.66	0.08	0.08	0.25	0.030	0.11	14.8	24.1	0.37	4030	2.56	0.01
ZZ17419		4.08	64.5	3.11	3.45	0.08	0.05	0.14	0.029	0.11	22.4	24.3	0.40	870	4.02	0.01
ZZ17420		2.46	26.3	1.60	3.37	<0.05	0.03	0.13	0.022	0.09	10.4	11.7	0.17	510	1.71	0.01
ZZ17421		1.64	33.9	1.56	2.56	<0.05	0.06	0.10	0.018	0.06	10.8	9.4	0.14	688	1.35	0.02
ZZ10701		2.28	48.3	2.98	2.79	0.07	0.05	0.07	0.028	0.08	20.1	15.6	0.28	707	3.30	<0.01
ZZ10702		2.19	33.8	2.03	3.62	<0.05	0.07	0.11	0.025	0.07	14.9	14.7	0.21	786	1.91	0.01
ZZ10703		2.03	33.1	2.37	3.84	0.07	0.03	0.08	0.023	0.08	14.8	15.1	0.30	598	2.40	0.01
ZZ10704		2.52	80.7	3.89	4.13	0.11	0.03	0.06	0.040	0.10	20.4	18.6	0.39	672	9.81	<0.01
ZZ10705		1.51	30.3	2.93	4.49	0.08	0.06	0.04	0.028	0.06	15.5	21.0	0.40	530	2.35	<0.01
ZZ10706		1.18	34.8	2.12	2.47	0.07	0.02	0.09	0.019	0.06	9.1	10.7	0.17	450	2.24	0.01
ZZ10707		1.17	25.0	2.53	3.72	0.08	0.04	0.07	0.024	0.08	14.9	17.5	0.26	608	2.08	<0.01
ZZ10708		0.84	4.3	0.48	1.84	<0.05	<0.02	0.01	<0.005	0.04	4.2	0.5	0.02	34	0.29	0.01
ZZ10709		2.63	38.3	2.20	3.45	0.09	0.12	0.13	0.028	0.11	9.4	21.2	0.23	563	0.98	0.01
ZZ10710		1.73	12.2	1.33	4.08	0.05	<0.02	0.04	0.012	0.07	6.9	2.3	0.05	93	1.10	0.01
ZZ10711		3.27	29.5	2.12	3.69	0.08	0.02	0.05	0.022	0.09	7.7	18.1	0.21	279	1.36	0.01



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CERTIFICATE OF ANALYSIS WH11149865

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm 0.05	ME- MS41 Ni ppm 0.2	ME- MS41 P ppm 10	ME- MS41 Pb ppm 0.2	ME- MS41 Rb ppm 0.1	ME- MS41 Re ppm 0.001	ME- MS41 S % 0.01	ME- MS41 Sb ppm 0.05	ME- MS41 Sc ppm 0.1	ME- MS41 Se ppm 0.2	ME- MS41 Sn ppm 0.2	ME- MS41 Sr ppm 0.2	ME- MS41 Ta ppm 0.01	ME- MS41 Te ppm 0.01	ME- MS41 Th ppm 0.2
ZZ17417		0.64	134.5	980	35.9	12.9	0.002	0.08	3.76	4.0	2.6	0.5	61.2	0.01	0.12	3.6
ZZ17418		0.37	46.6	1080	25.1	14.4	0.003	0.09	1.51	3.4	4.7	0.4	115.0	<0.01	0.08	2.0
ZZ17419		0.48	113.0	940	24.8	12.5	0.002	0.09	2.45	3.2	2.9	0.4	68.5	<0.01	0.08	2.5
ZZ17420		0.37	17.4	830	11.5	12.4	<0.001	0.04	0.83	2.1	1.0	0.4	25.9	<0.01	0.04	0.8
ZZ17421		0.44	20.6	900	10.4	7.1	<0.001	0.06	1.02	1.9	1.3	0.3	46.9	<0.01	0.05	0.9
ZZ10701		0.46	34.5	910	20.2	7.5	0.001	0.02	2.52	3.3	1.0	0.3	36.8	<0.01	0.06	5.2
ZZ10702		0.46	22.2	1020	12.8	11.4	0.001	0.06	1.04	2.7	1.1	0.4	44.1	<0.01	0.05	1.3
ZZ10703		0.33	24.7	930	14.1	12.6	0.001	0.05	1.25	1.8	0.9	0.4	41.4	<0.01	0.06	0.9
ZZ10704		0.35	56.9	940	28.7	13.5	0.002	0.08	5.97	1.6	2.3	0.4	29.6	<0.01	0.13	0.6
ZZ10705		0.81	24.5	780	15.9	10.5	0.001	0.02	1.44	3.0	1.1	0.5	16.8	<0.01	0.06	3.1
ZZ10706		0.23	19.5	760	13.8	6.7	0.001	0.03	1.49	1.6	0.9	0.3	30.0	<0.01	0.05	0.8
ZZ10707		0.39	20.4	650	14.3	10.6	0.001	0.02	1.02	2.7	0.7	0.4	27.0	<0.01	0.05	3.6
ZZ10708		0.12	1.4	240	2.3	5.8	<0.001	0.01	0.12	0.5	<0.2	0.2	4.1	<0.01	0.01	0.5
ZZ10709		0.36	20.7	810	19.9	15.4	<0.001	0.06	0.71	3.8	1.2	0.4	75.6	0.01	0.06	2.5
ZZ10710		0.32	4.9	340	8.4	13.0	<0.001	0.02	0.46	1.0	0.3	0.5	7.3	<0.01	0.04	1.0
ZZ10711		0.35	18.0	510	16.7	12.3	<0.001	0.02	0.65	1.9	0.6	0.5	30.0	<0.01	0.03	1.0



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CERTIFICATE OF ANALYSIS WH11149865

Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ17417		0.021	0.27	4.55	50	0.18	18.80	872	1.3
ZZ17418		0.010	0.20	2.85	33	0.10	18.05	235	2.1
ZZ17419		0.014	0.20	3.53	36	0.12	16.85	694	1.2
ZZ17420		0.010	0.22	1.21	29	0.09	6.99	86	0.6
ZZ17421		0.012	0.12	1.52	19	0.06	13.25	88	1.8
ZZ10701		0.022	0.16	1.24	32	0.10	11.50	153	2.6
ZZ10702		0.011	0.17	2.39	28	0.09	11.85	109	1.9
ZZ10703		0.009	0.19	0.96	34	0.11	6.94	113	0.7
ZZ10704		0.013	0.38	2.70	62	0.17	8.79	313	0.7
ZZ10705		0.023	0.15	1.14	43	0.36	5.70	90	1.5
ZZ10706		0.009	0.12	1.01	26	0.09	7.13	93	0.5
ZZ10707		0.009	0.13	1.12	32	0.12	6.99	87	1.1
ZZ10708		0.007	0.05	0.17	13	0.05	0.62	18	<0.5
ZZ10709		0.006	0.14	1.87	22	0.07	16.20	94	3.8
ZZ10710		0.007	0.11	0.35	25	0.10	1.61	38	<0.5
ZZ10711		0.010	0.10	1.04	22	0.11	7.87	87	<0.5



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Method	CERTIFICATE COMMENTS
ME- MS41	Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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Project: Lansing - Liam

P.O. No.:

This report is for 15 Rock samples submitted to our lab in Whitehorse, YT, Canada on 3- AUG- 2011.

The following have access to data associated with this certificate:

DOUG EATON

SARAH EATON

JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- 31	Fine crushing - 70% < 2mm
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	
ME- MS41	51 anal. aqua regia ICPMS	
Ag- OG46	Ore Grade Ag - Aqua Regia	VARIABLE
ME- OG46	Ore Grade Elements - AquaRegia	ICP- AES
Pb- OG46	Ore Grade Pb - Aqua Regia	VARIABLE
Zn- OG46	Ore Grade Zn - Aqua Regia	VARIABLE
As- OG46	Ore Grade As - Aqua Regia	VARIABLE
Au- AA24	Au 50g FA AA finish	AAS

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

Signature:

Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH11149869

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- AA24 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.005	0.01	0.01	0.1	0.2	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
K976751		0.49	<0.005	0.06	1.83	8.3	<0.2	<10	30	0.37	0.03	0.05	0.16	15.25	10.0	33
K976752		0.22	0.019	0.78	0.56	18.5	<0.2	20	120	0.07	14.05	0.35	0.40	2.75	1.4	7
K976753		0.20	0.008	1.03	1.13	2.4	<0.2	<10	90	0.21	0.88	0.36	0.53	4.38	5.8	12
K976754		0.26	<0.005	0.29	1.50	9.4	<0.2	<10	150	0.73	0.84	0.64	1.09	18.85	4.4	27
K976755		0.18	0.007	7.91	0.90	1145	<0.2	<10	100	1.75	27.2	0.05	0.72	20.5	8.4	23
K976756		0.07	NSS	58.0	0.23	>10000	1.1	<10	60	0.23	50.7	0.01	95.5	12.95	79.5	2
K976757		1.88	0.057	1.09	1.31	1370	<0.2	20	280	0.44	14.40	0.56	0.59	16.50	4.6	21
K976758		0.49	0.038	3.74	0.31	9830	<0.2	<10	150	0.28	4.01	0.01	3.60	22.6	4.9	8
K976759		0.75	0.287	22.8	0.25	>10000	0.3	<10	50	0.14	18.15	0.03	45.2	10.70	6.5	7
K976760		0.58	2.12	>100	0.05	>10000	2.0	<10	50	<0.05	22.1	0.01	380	2.44	3.7	<1
K976761		0.18	0.049	16.00	2.18	554	<0.2	10	240	0.49	29.4	0.22	4.93	29.3	13.3	34
K976762		0.41	1.365	12.25	0.59	>10000	1.4	<10	40	0.07	11.95	<0.01	14.85	2.93	186.5	10
K976763		0.64	0.035	16.45	1.55	5180	<0.2	<10	40	0.16	6.32	0.02	3.46	2.34	1.3	21
K976764		1.12	0.601	29.9	1.58	>10000	0.6	<10	10	0.12	394	0.02	9.78	1.45	131.0	11
K976765		0.46	0.035	2.76	1.43	829	<0.2	<10	580	0.38	4.50	0.29	7.24	2.53	3.2	16



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CERTIFICATE OF ANALYSIS WH11149869

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05
K976751		0.24	68.9	4.55	8.33	0.19	0.07	0.03	1.220	0.01	7.2	38.2	0.94	364	1.07
K976752		0.86	591	7.50	2.53	0.45	0.07	0.02	0.177	0.04	1.3	4.9	4.67	205	2.25
K976753		0.33	67.1	5.49	4.56	0.19	0.38	0.01	0.054	0.04	2.0	8.3	2.80	241	0.33
K976754		1.39	40.4	1.66	4.57	0.11	0.49	0.01	0.020	0.08	10.0	28.1	0.80	124	28.1
K976755		8.97	446	16.95	5.00	0.36	0.32	1.04	0.137	0.10	10.0	22.6	0.12	872	46.1
K976756		0.50	370	23.8	1.69	0.71	0.03	0.94	4.34	0.06	6.5	3.3	0.01	57	1.10
K976757		8.71	352	5.20	5.94	0.24	0.30	0.07	0.164	0.26	9.7	16.0	1.95	282	48.2
K976758		1.35	64.0	2.68	1.24	0.08	0.08	0.07	0.160	0.19	10.9	2.0	0.05	74	14.60
K976759		1.32	681	4.93	1.48	0.09	0.14	1.06	9.56	0.16	6.7	1.4	0.04	72	22.1
K976760		0.18	5060	14.40	2.94	0.25	0.03	1.63	17.05	0.03	3.8	0.4	0.01	106	3.42
K976761		2.29	5900	7.26	10.70	0.23	0.37	0.03	1.235	0.24	16.2	32.4	1.93	464	163.0
K976762		1.32	325	20.6	4.00	0.61	0.39	0.08	1.110	0.05	2.1	5.5	0.11	18	7.91
K976763		1.25	222	16.80	12.60	0.58	0.29	0.07	0.502	0.04	1.6	28.5	1.44	325	84.9
K976764		3.29	1555	25.5	12.00	0.91	0.22	0.05	1.380	0.07	0.7	14.2	1.29	121	22.0
K976765		4.87	431	7.19	7.57	0.42	0.15	0.06	0.836	0.32	1.5	11.7	2.95	171	15.35



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 Account: F

Project: Lansing - Liam

CERTIFICATE OF ANALYSIS WH11149869

Sample Description	Method Analyte Units LOR	ME- MS41 Nb ppm 0.05	ME- MS41 Ni ppm 0.2	ME- MS41 P ppm 10	ME- MS41 Pb ppm 0.2	ME- MS41 Rb ppm 0.1	ME- MS41 Re ppm 0.001	ME- MS41 S % 0.01	ME- MS41 Sb ppm 0.05	ME- MS41 Sc ppm 0.1	ME- MS41 Se ppm 0.2	ME- MS41 Sn ppm 0.2	ME- MS41 Sr ppm 0.2	ME- MS41 Ta ppm 0.01	ME- MS41 Te ppm 0.01	ME- MS41 Th ppm 0.2
K976751		0.07	29.5	420	8.0	0.8	<0.001	<0.01	2.09	5.7	0.3	0.3	6.1	<0.01	0.01	2.5
K976752		0.15	3.6	690	25.3	3.1	0.010	0.13	6.62	1.7	20.1	4.1	4.3	<0.01	0.41	2.7
K976753		0.17	16.6	1240	37.1	3.7	<0.001	0.13	0.54	1.0	7.8	0.7	10.0	<0.01	0.33	2.6
K976754		0.49	115.5	560	7.9	6.4	0.021	0.23	2.39	2.9	5.6	1.0	82.6	0.01	0.13	3.0
K976755		0.21	132.0	790	263	11.8	0.004	0.13	19.80	29.4	21.8	13.4	31.2	0.02	0.80	4.8
K976756		0.34	12.2	40	>10000	2.4	0.001	5.30	>10000	0.6	158.0	>500	20.2	<0.01	9.08	1.3
K976757		0.34	62.8	300	36.5	30.5	0.023	0.33	12.35	3.6	3.6	10.9	46.0	0.01	0.54	3.8
K976758		0.06	31.2	40	712	16.3	0.011	0.39	366	1.6	7.3	33.1	2.6	<0.01	0.32	2.8
K976759		0.08	11.7	340	8110	13.5	0.005	1.14	4750	1.0	7.3	>500	21.3	<0.01	0.37	1.3
K976760		0.17	3.3	50	>10000	1.6	0.003	7.88	>10000	0.3	22.8	>500	25.9	<0.01	0.48	0.2
K976761		0.08	137.0	1130	223	22.2	0.082	0.16	85.9	7.2	5.9	29.9	13.1	0.01	4.39	5.5
K976762		0.37	47.6	60	2870	4.6	0.003	4.81	1705	4.8	93.6	168.5	4.6	<0.01	17.80	1.5
K976763		0.15	15.1	340	2290	5.1	0.031	0.37	687	5.5	13.1	106.0	8.6	<0.01	0.26	2.1
K976764		0.37	25.8	130	987	5.2	0.008	9.76	682	7.2	86.2	177.5	24.4	<0.01	17.85	1.2
K976765		0.39	10.3	150	57.1	26.6	0.013	0.30	19.20	2.0	26.9	8.2	7.8	<0.01	0.14	3.1



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



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CERTIFICATE OF ANALYSIS WH11149869

Method	CERTIFICATE COMMENTS
ALL METHODS ME- MS41	NSS is non- sufficient sample. Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).



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Page: 1
Finalized Date: 11- OCT- 2011
Account: F

CERTIFICATE WH11190787

Project: Lansing - Liam

P.O. No.:

This report is for 14 Rock samples submitted to our lab in Whitehorse, YT, Canada on 22- SEP- 2011.

The following have access to data associated with this certificate:

DOUG EATON

SARAH EATON

JOAN MARIACHER

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
FND- 02	Find Sample for Addn Analysis

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
Sb- AA08	Sb - KClO3/HCl digestion AA	AAS
ME- XRF05	Trace Level XRF Analysis	XRF

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

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

Signature:


Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH11190787

Sample Description	Method Analyte Units LOR	Sb- AA08	ME- XRF05
		Sb % 0.01	Sn ppm 5
K976751			<5
K976752			9
K976753			11
K976754			<5
K976755			19
K976757			47
K976758			53
K976759			855
K976760		4.05	5920
K976761			43
K976762			254
K976763			148
K976764			221
K976765			17

Statement of Expenditures
Liam 1-60 Mineral Claims
August 29, 2011



Labour

S. Eaton (geologist) May 30, 1/2 May 31, July 25 to 27 1/2 Aug 1 – 5 days @ \$680/day	\$ 3,808.00
M. Kammerer (field assistant) 1/2 June 10, June 15 1/2 June 16 – 2 days @ \$552/day	1,236.48
A. Mitchell (field assistant) May 30 – 1 day @ \$496/day	555.52
K. Domes (field assistant) May 30, 1/2 May 31 – 1 1/2 days @ \$424/day	712.32
D. Bailey (field assistant) 1/2 June 10 – 1/2 day @ \$376/day	210.56
K. Didlick (field assistant) June 15 – 1 day @ \$344/day	385.28
S. Dosch (field assistant) 1/2 June 10, June 15 – 1 1/2 days @ \$344/day	577.92
C. Small (field assistant) July 26 to 27 – 2 days @ \$344/day	770.56
S. Wedge (field assistant) July 26 to 27 – 2 days @ \$344/day	770.56
	9,027.20

Expense

Field room and board – 16 1/2 days @ \$125/day	2,310.00
Trans North Helicopters – 8 hrs Bell 206 @ \$990/hr plus fuel	9,847.30
ALS Chemex	3,991.92
	16,149.22

Total \$25,176.42