

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
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Telephone: 604-688-2568

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**ASSESSMENT REPORT**

describing

**STREAM SEDIMENT AND SOIL GEOCHEMICAL SAMPLING**

at the

**CELEBES PROPERTY**

Celebes 1-12 YD110809-YD110820

NTS 095D/11

Latitude 60°33'N; Longitude 127°16'W

located in the

Watson Lake Mining District  
Yukon Territory

prepared by

Archer, Cathro & Associates (1981) Limited

for

**PRECIPITATE GOLD CORP.**  
and  
**STRATEGIC METALS LTD.**

by

H. Smith, B.Sc., P.Geo.

October 2011

095435

Costs associated with this report have been approved in the amount of \$ 5400.00 for assessment credit under Certificate of

Work No. 9426671

*R. Moore*

Mining Recorder  
Watson Lake Mining District

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## INTRODUCTION

The Celebes property is located in southeastern Yukon and covers the headwaters of a creek that yielded strongly anomalous arsenic, lead and zinc values from a government stream sediment sample. The property is owned by Strategic Metals Ltd. and is under option to Precipitate Gold Corp.

This report describes geochemical sampling conducted by a three person crew on June 9, 2011 by Archer, Cathro and Associates (1981) Limited on behalf of Precipitate Gold. The author interpreted all data from this project and her Statement of Qualifications is in Appendix I.

## PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Celebes property comprises 12 contiguous quartz claims located in southeastern Yukon at latitude 60°33' north and longitude 126°16' west on NTS map sheet 095D/11 (Figure 1). The property covers an area of about 240 hectares (2.4 km<sup>2</sup>). The claims are registered with the Watson Lake 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>
Celebes 1-12	YD110809-YD110820	March 8, 2016

\*Expiry date includes 2011 work which has been filed for assessment credit but not yet accepted.

Access to the property was provided by a Hughes 500D helicopter operated by Kluane Airways from Coal River, B.C., which is located approximately 100 km south of the property. All personnel stayed at the Coal River Lodge.

The community of Watson Lake is the nearest supply centre. It lies 100 km southwest of the property. The closest road access is from the Alaska Highway, which at its nearest point is 70 km southwest of the property. The Alaska Highway is usable in all seasons by two wheel drive vehicles.

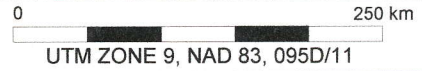
## HISTORY AND PREVIOUS WORK

The Celebes property lies immediately north of historical Minfile 095D 036 (Figure 2), which is described as a lead and zinc showing; however, no additional details are available from the Minfile or assessment reports.

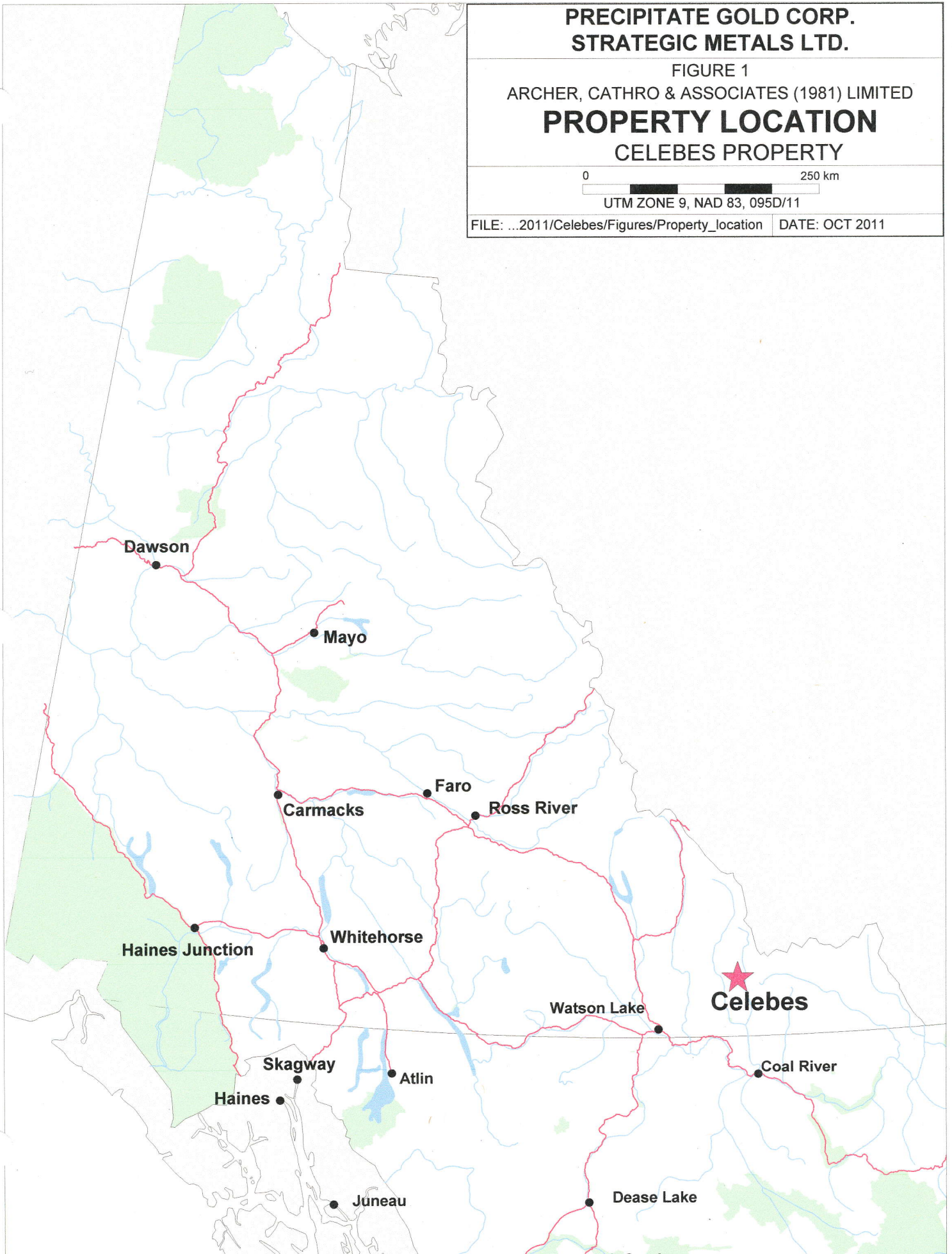
In 1995, the Geological Survey of Canada (GSC) completed a low-density stream sediment and water sampling survey on parts of NTS map sheets 095D and 105A (Friske *et. al.*, 1996). A sample collected from the creek draining the Celebes property returned 95<sup>th</sup> percentile arsenic (31 ppm) and zinc (473 ppm) values and a 99<sup>th</sup> percentile lead (89 ppm) value for those map sheets (Figure 2).

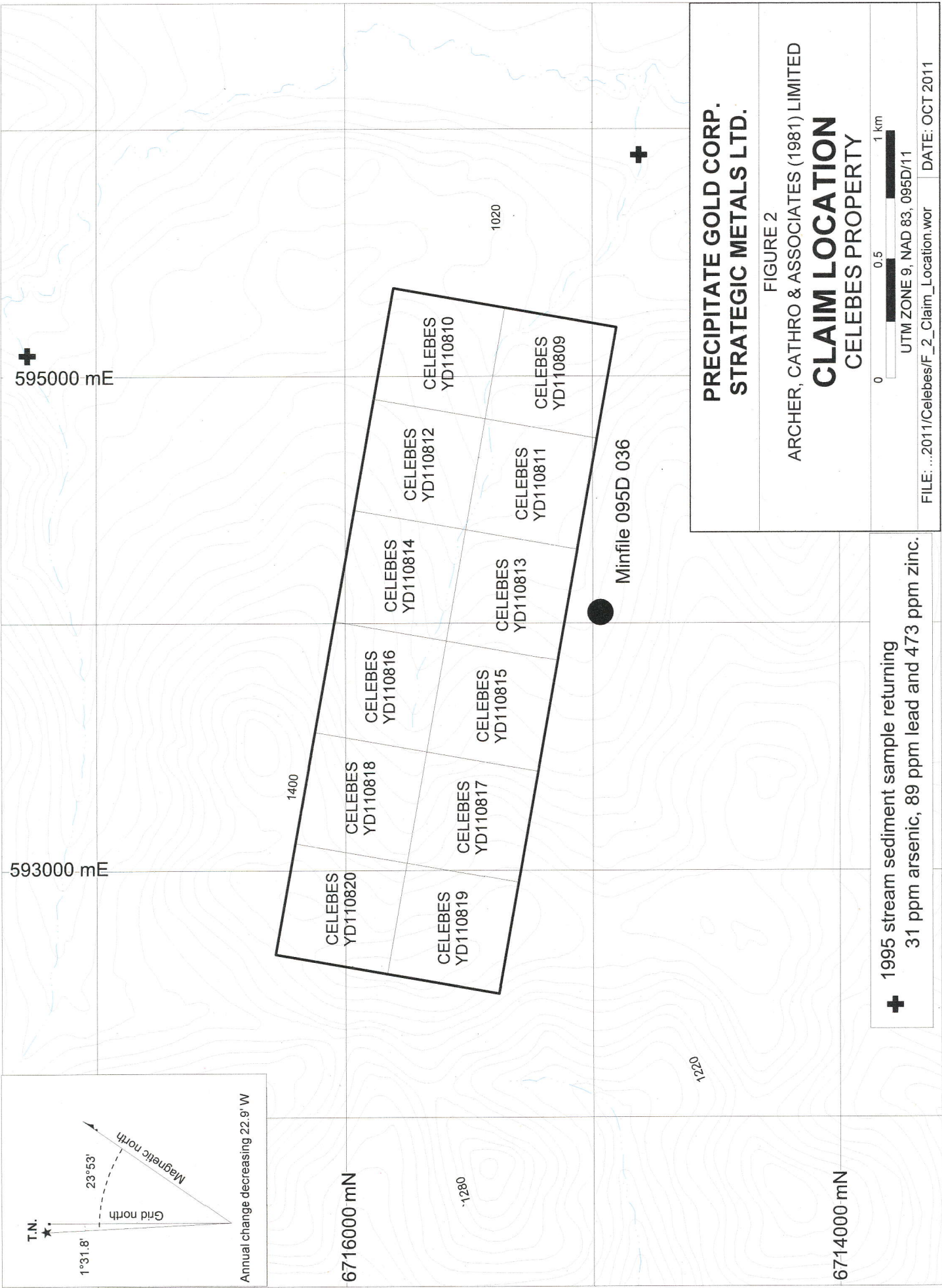
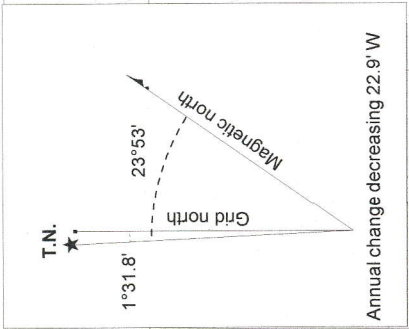
**PRECIPITATE GOLD CORP.  
STRATEGIC METALS LTD.**

FIGURE 1  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**PROPERTY LOCATION**  
CELEBES PROPERTY



FILE: ...2011/Celebes/Figures/Property\_location DATE: OCT 2011





**PRECIPITATE GOLD CORP.  
STRATEGIC METALS LTD.**

FIGURE 2

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**CLAIM LOCATION  
CELEBES PROPERTY**

✚ 1995 stream sediment sample returning  
31 ppm arsenic, 89 ppm lead and 473 ppm zinc.

In October 2010, Strategic Metals staked the Celebes property.

### GEOMORPHOLOGY AND CLIMATE

The Celebes property is situated in the Liard Plateau south of the Selwyn Mountains. It is drained by Dalziel Creek – a tributary of Rock River, which ultimately connects to the Arctic Ocean via the Liard and Mackenzie rivers.

The property covers an east-trending valley, with local elevations ranging from 1050 to 1453 m above sea level (asl). Topographic relief in the area is gentle to moderate. Outcrop is sparse in the western-most part of the property and is rare in the remainder of the property where it is obscured by glacial till and thick vegetation comprising black spruce, alder, 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). The area was covered by the Liard Lobe of the ice sheet, which moved in an eastward to north-eastward direction.

The climate in the Celebes 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 mid-May to late September.

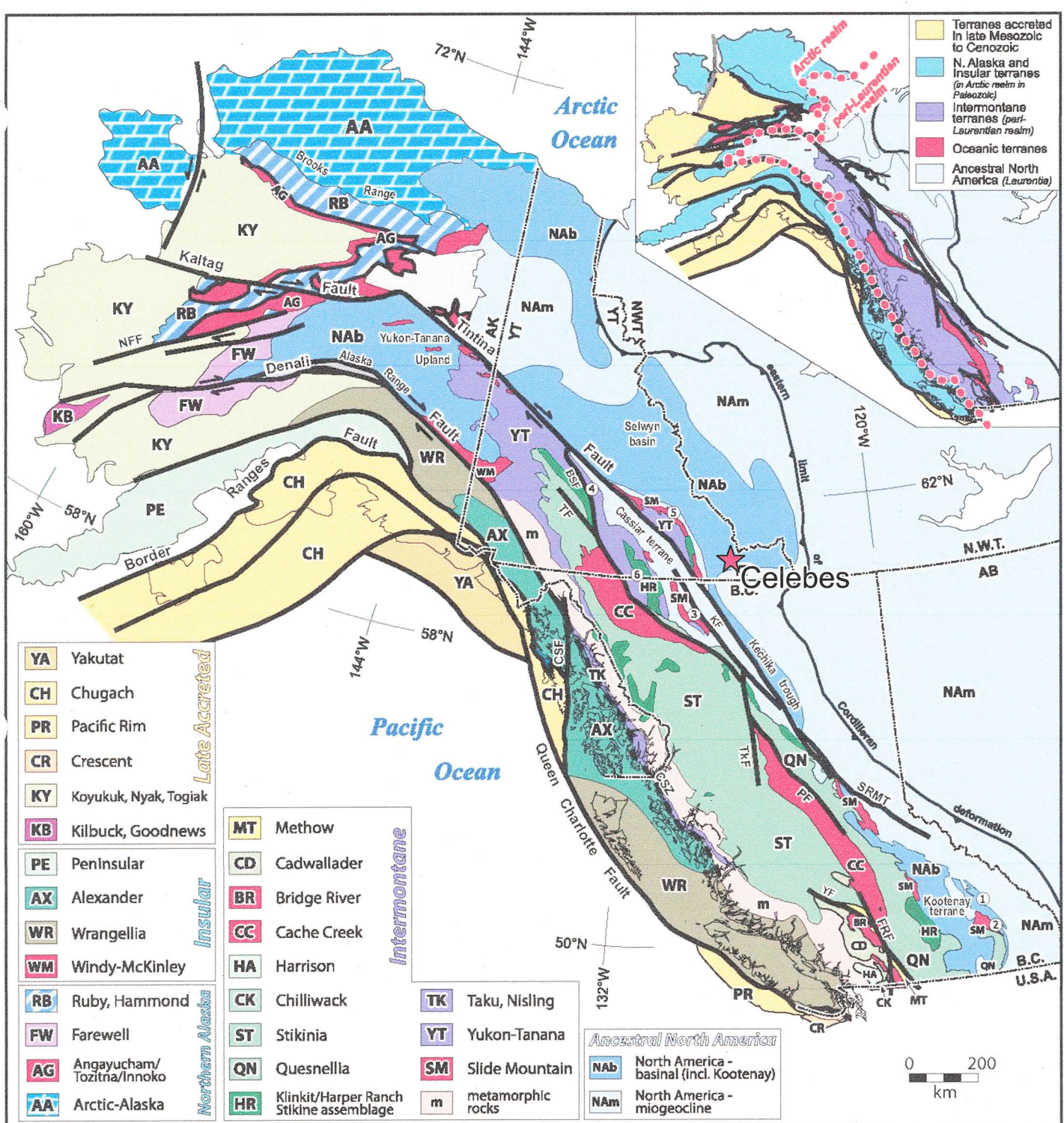
### GEOLOGY

The Coal River map sheet (NTS 095D) was mapped at a regional scale (1:250,000) by the GSC in 1969 (Gabrielse and Blusson, 1969) and the Yukon Geological Survey (YGS) in 2009 and 2010 (Pigage et. al., 2010).

The Celebes property is located within Selwyn Basin (Figure 3), a tectonic element comprising deep water clastic rocks, chert and minor carbonate accumulated along the North American continental margin during Paleozoic time (Pigage, 2004). In the Celebes property area, the basement package comprises Neoproterozoic to Cambrian Vampire Formation phyllite, sandstone and limestone and an interlayered, unnamed group composed of Cambrian-age lapilli tuffs and pillow basalts. The Vampire Formation is in fault-contact with younger sedimentary stratigraphy including Cambro-Ordovician Rabbitkettle and Ordovician Sunblood formations and Eocene Rock River Coal Basin sediments (Figure 4). Descriptions of these units are provided in Table I.

**Table I – Lithological Units (after Pigage et. al., 2010)**

<b>Unit Name</b>	<b>Map Name</b>	<b>Age</b>	<b>Description</b>
ERRs	Rock River Coal Basin	Eocene	Light grey to black mudstone; lesser lithic sandstone and lignite coal.
OS	Sunblood Formation	Ordovician	Light to dark grey, light brownish grey-, buff- or orange-weathering, mottled, thin-



- |                                     |                        |
|-------------------------------------|------------------------|
| <b>YA</b> Yakutat                   | <b>Late Accreted</b>   |
| <b>CH</b> Chugach                   |                        |
| <b>PR</b> Pacific Rim               |                        |
| <b>CR</b> Crescent                  |                        |
| <b>KY</b> Koyukuk, Nyak, Togiak     |                        |
| <b>KB</b> Kilbuck, Goodnews         | <b>Insular</b>         |
| <b>PE</b> Peninsular                |                        |
| <b>AX</b> Alexander                 |                        |
| <b>WR</b> Wrangellia                |                        |
| <b>WM</b> Windy-McKinley            |                        |
| <b>RB</b> Ruby, Hammond             | <b>Northern Alaska</b> |
| <b>FW</b> Farewell                  |                        |
| <b>AG</b> Angayucham/Tozitna/Innoko |                        |
| <b>AA</b> Arctic-Alaska             |                        |

- |   |                     |
|---|---------------------|
| <b>MT</b> Methow                                  | <b>Intermontane</b> |
| <b>CD</b> Cadwallader                             |                     |
| <b>BR</b> Bridge River                            |                     |
| <b>CC</b> Cache Creek                             |                     |
| <b>HA</b> Harrison                                |                     |
| <b>TK</b> Taku, Nisling                           |                     |
| <b>YN</b> Yukon-Tanana                            |                     |
| <b>SM</b> Slide Mountain                          |                     |
| <b>m</b> metamorphic rocks                        |                     |
| <b>HR</b> Klinkit/Harper Ranch Stikine assemblage |                     |

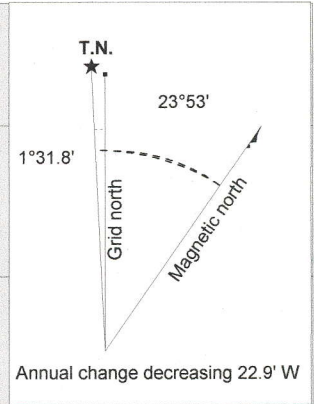
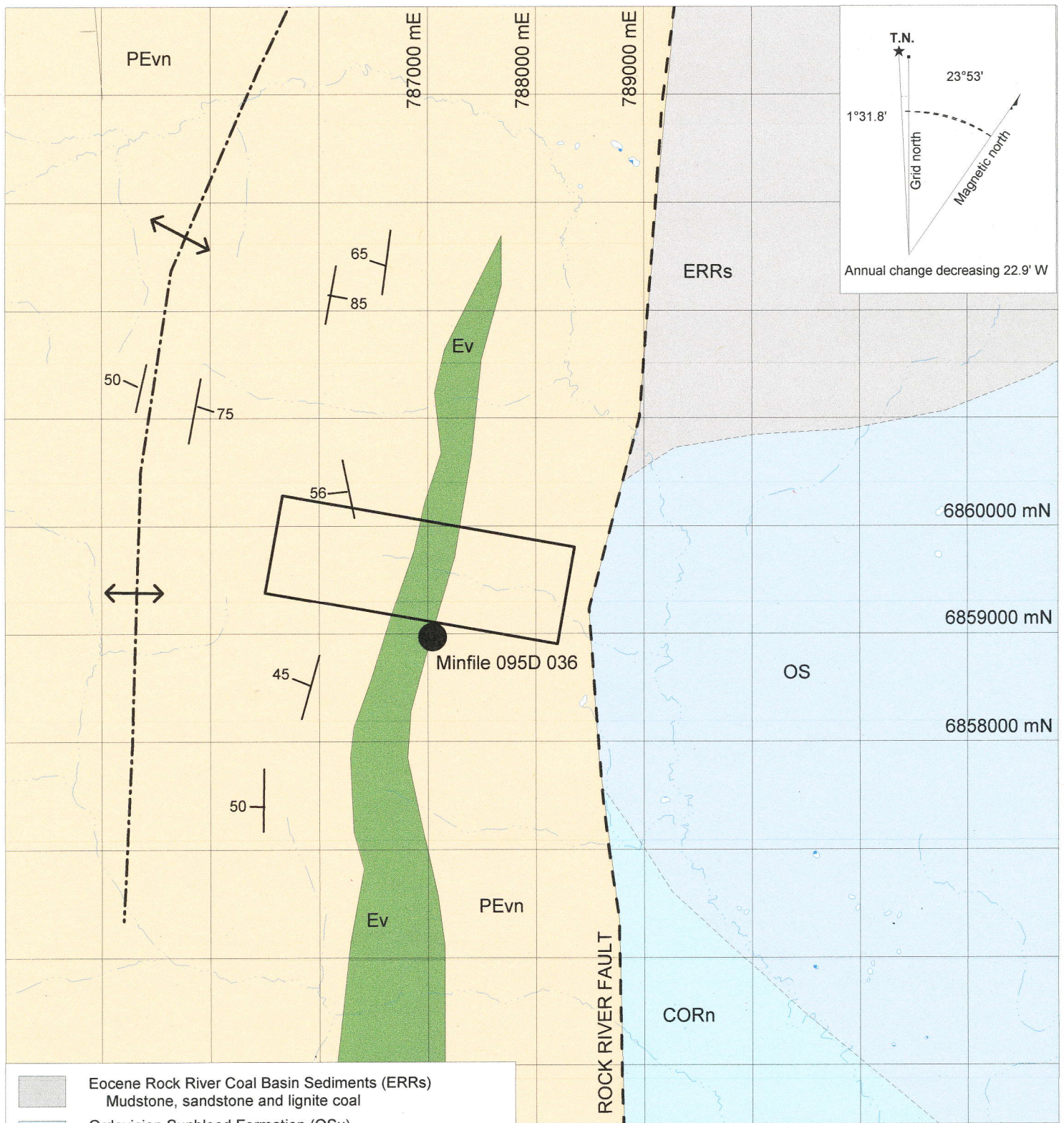
- |   |
|---|
| <b>NAB</b> North America - basinal (incl. Kootenay) |
| <b>NAM</b> North America - miogeoclinal             |

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FIGURE 3  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**TECTONIC SETTINGS**  
CÉLEBES PROPERTY

UTM ZONE 9, NAD 83, 095D/11

FILE:..2011/Celebes/F\_3\_Tectonic\_setting.wor      DATE: OCT 2011



- Eocene Rock River Coal Basin Sediments (ERRs)  
Mudstone, sandstone and lignite coal
- Ordovician Sunblood Formation (OSu)  
Dolostone or limestone
- Cambrian to Ordovician Rabbitkettle Formation (CORn)  
Wavy banded, silty limestone
- Cambrian Unnamed Group (Ev)  
Lapilli tuffs and pillow basalts
- Neoproterozoic to Cambrian Vampire Formation (PEvn)  
Phyllite, sandstone and limestone
- Fault
- Fold, anticline
- Strike and dip of bedding

**PRECIPITATE GOLD CORP.  
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FIGURE 4  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

**GEOLOGY**  
**CELEBES PROPERTY**

0 2 km

UTM ZONE 9, NAD 83, 095D/11

FILE: ...2011/Celebes/Figure/Geology      DATE: OCTOBER 2011

			to thick bedded dolostone or limestone; commonly bioturbated; locally laminated.
CORn	Rabbitkettle Formation	Cambrian to Ordovician	Grey- to brownish grey-weathering, wavy-banded, silty limestone with distinctive pale grey limestone nodules; lesser intervals of pale grey, indistinctly bedded limestone.
EV	Unnamed	Cambrian	Green, grey-weathering, basaltic lapilli tuffs and breccias interbedded with amygdaloidal, vesicular or massive, locally pillowed basaltic flows.
PEvn	Vampire Formation	Neoproterozoic to Cambrian	Dark grey to pale green, rusty tan-weathering, non-calcareous, silty phyllite; lesser cream, quartzose sandstone and light grey-weathering siltstone; minor quartzose pebbly conglomerate to sandstone and grey, bedded limestone; locally metamorphosed to biotite-garnet-staurolite schist.

The property lies within an area that has undergone significant regional-scale deformation. It is underlain by Vampire Formation and a 400 m wide, approximately north-trending band of volcanic rocks belonging to the unnamed group. The volcanic group bisects the property. The property is located on the eastern limb of a large north-south anticline, the axis of which lies one kilometre to the west. A major, nearly north-south-trending fault (Rock Creek Fault) lies immediately east of the property. It juxtaposes Vampire Formation against Rabbitkettle and Sunblood formations and Rock River Coal Basin sediments.

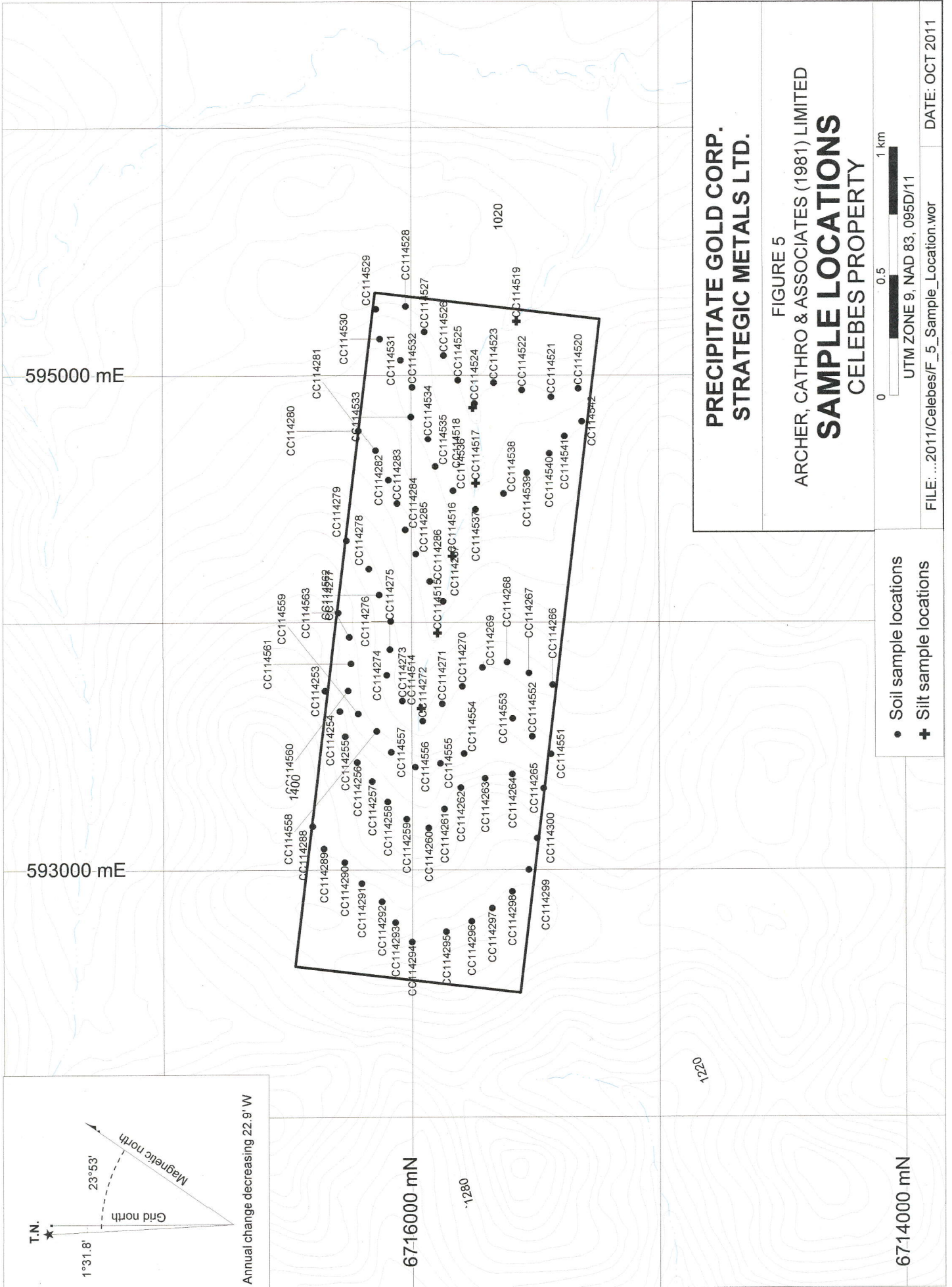
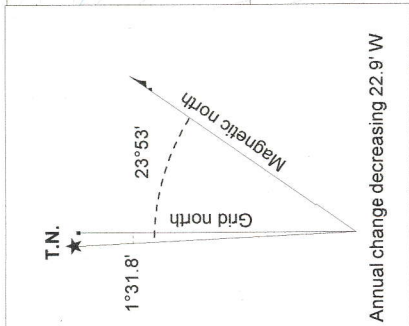
### **STREAM SEDIMENT AND SOIL GEOCHEMISTRY**

In 2011, Precipitate Gold collected 84 contour soil samples and six stream sediment samples on the property. Sample locations are plotted on Figure 5, while results for gold, arsenic, antimony, lead and zinc are illustrated thematically on Figures 6 to 10, respectively.

Soil samples were collected at 100 m spacings from 10 to 40 cm deep holes dug by hand-held auger. Stream sediment samples were collected by hand. 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 soil sample locations were recorded using hand-held GPS units.

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).

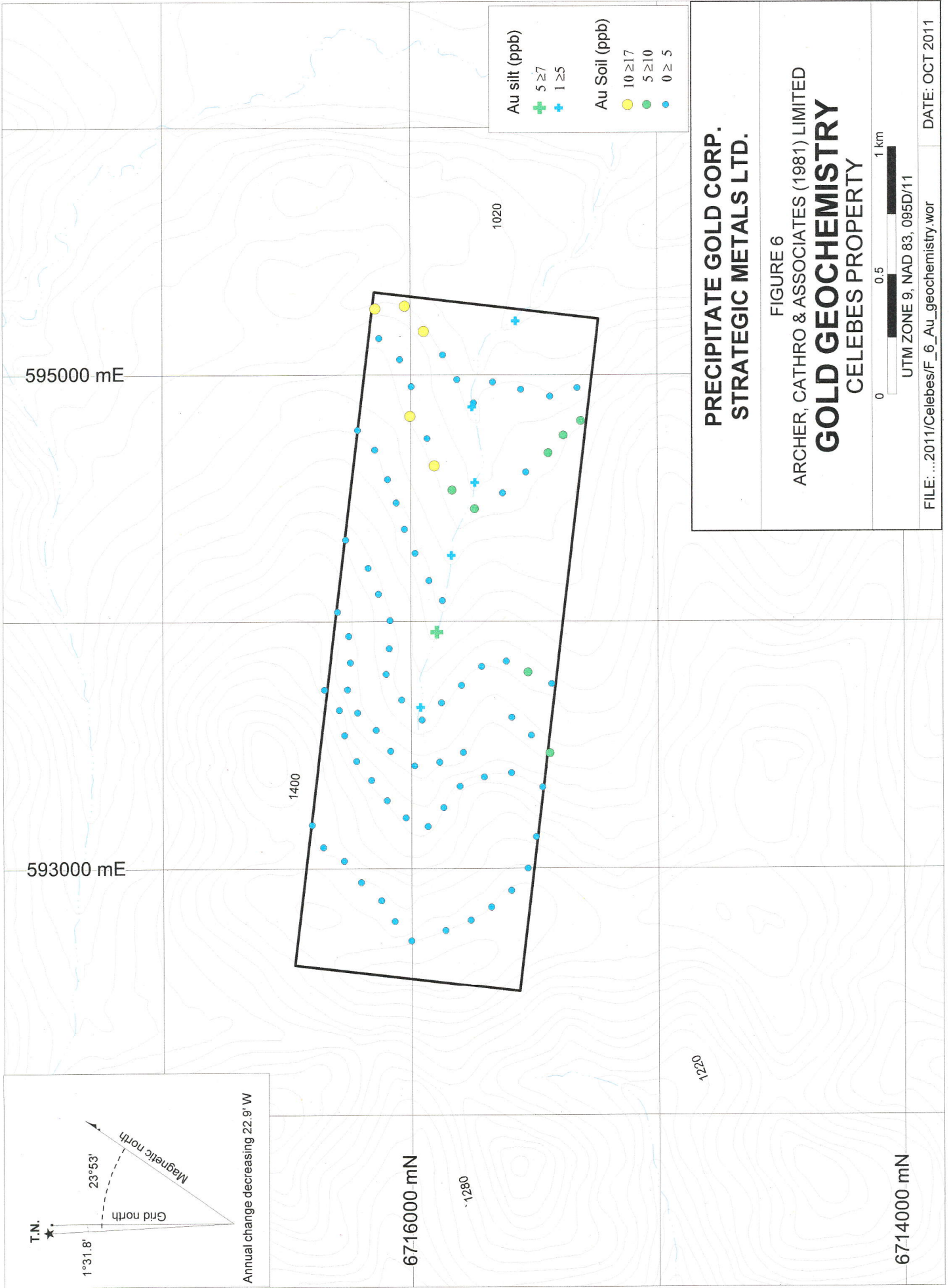
Soil sampling identified a multi-element anomaly that spans most of the 2011 work area. This anomaly includes scattered moderately anomalous gold (10 to 17 ppb) and arsenic (50 to 69

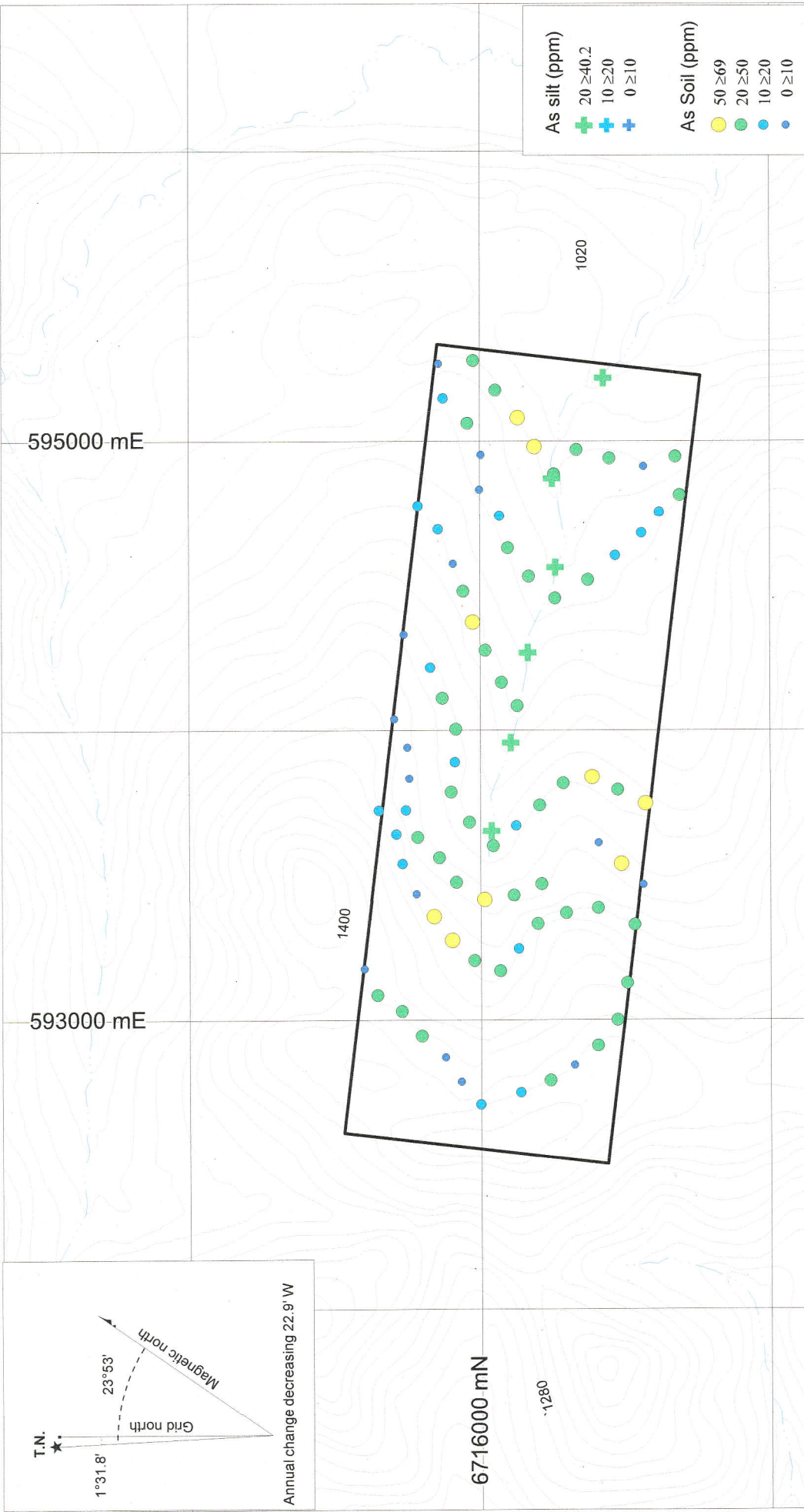
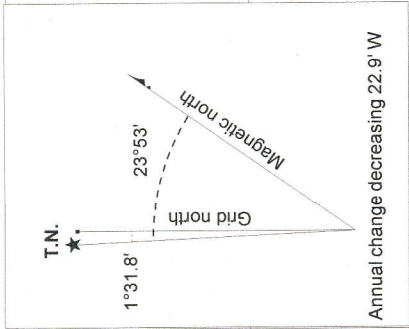


**PRECIPITATE GOLD CORP.  
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FIGURE 5  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**SAMPLE LOCATIONS**  
CELEBES PROPERTY

- Soil sample locations
- + Silt sample locations

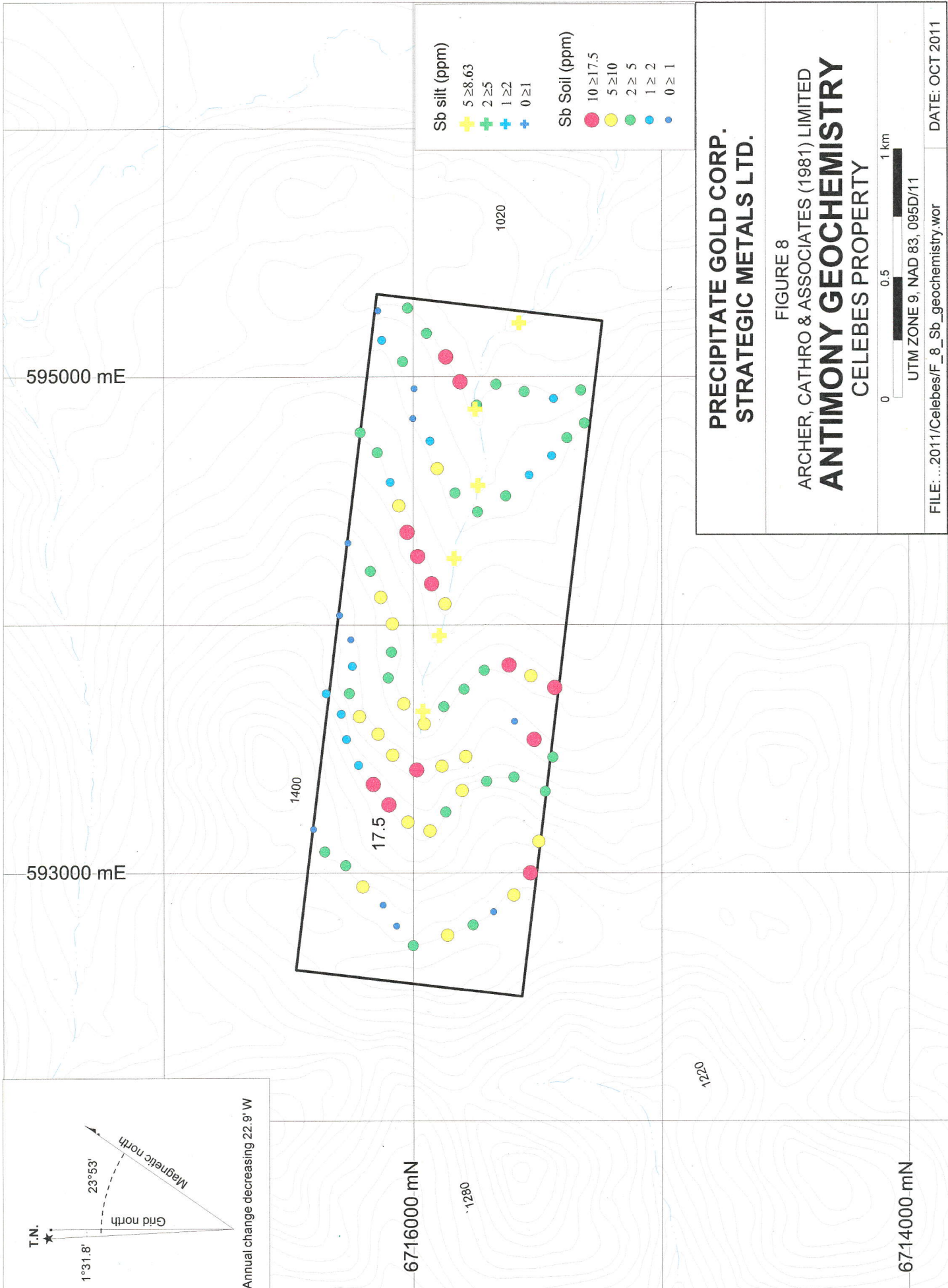
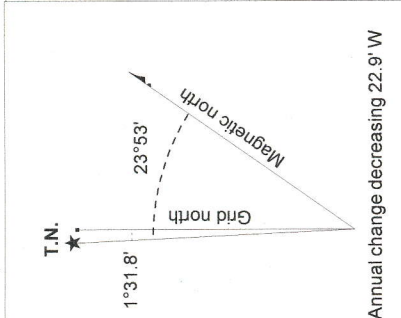




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FIGURE 7  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**ARSENIC GEOCHEMISTRY**  
CELEBES PROPERTY

0 0.5 1 km  
UTM ZONE 9, NAD 83, 095D/11  
FILE: ...2011/Celebes/F\_7\_As\_geochemistry.wor DATE: OCT 2011

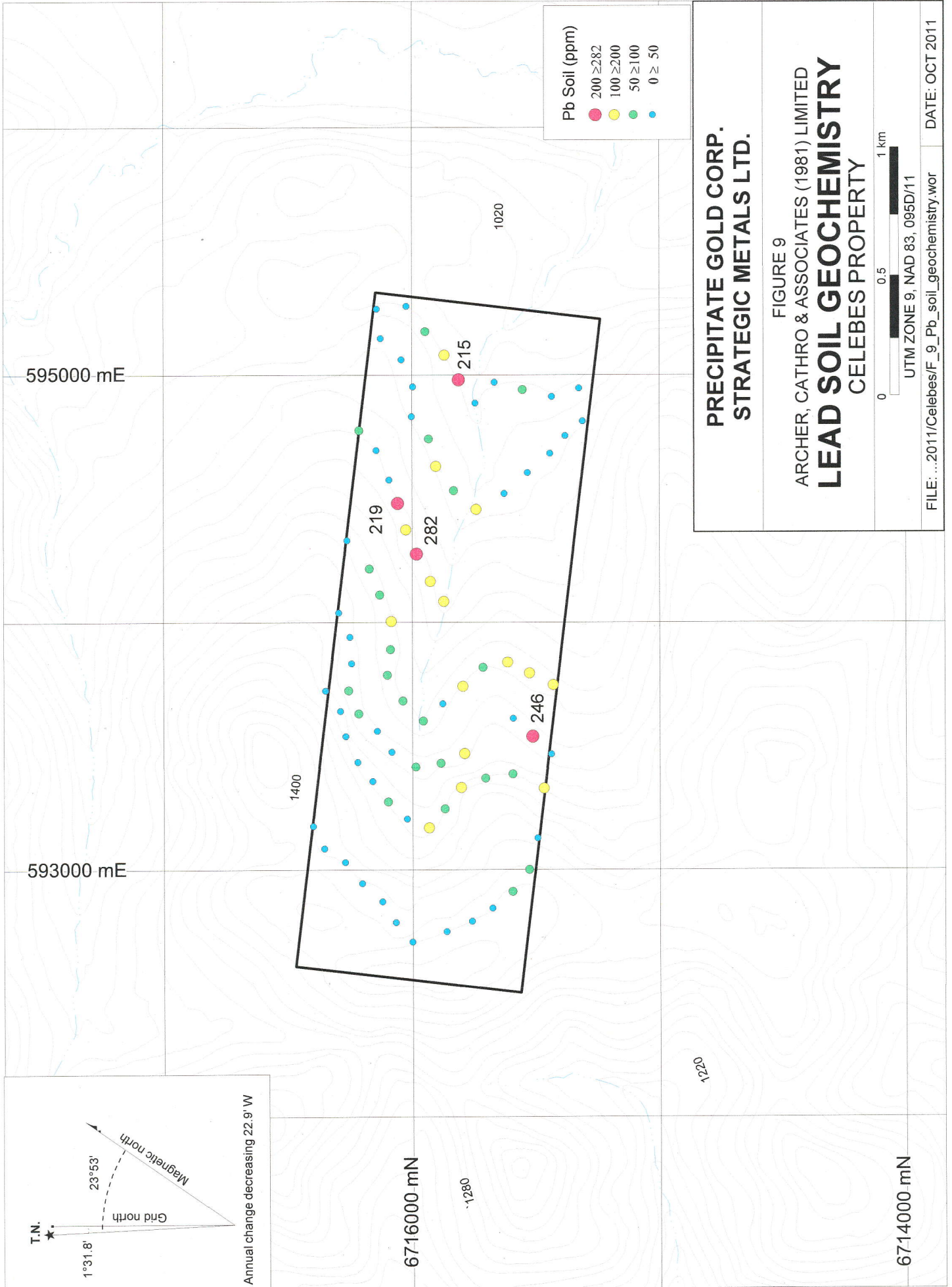


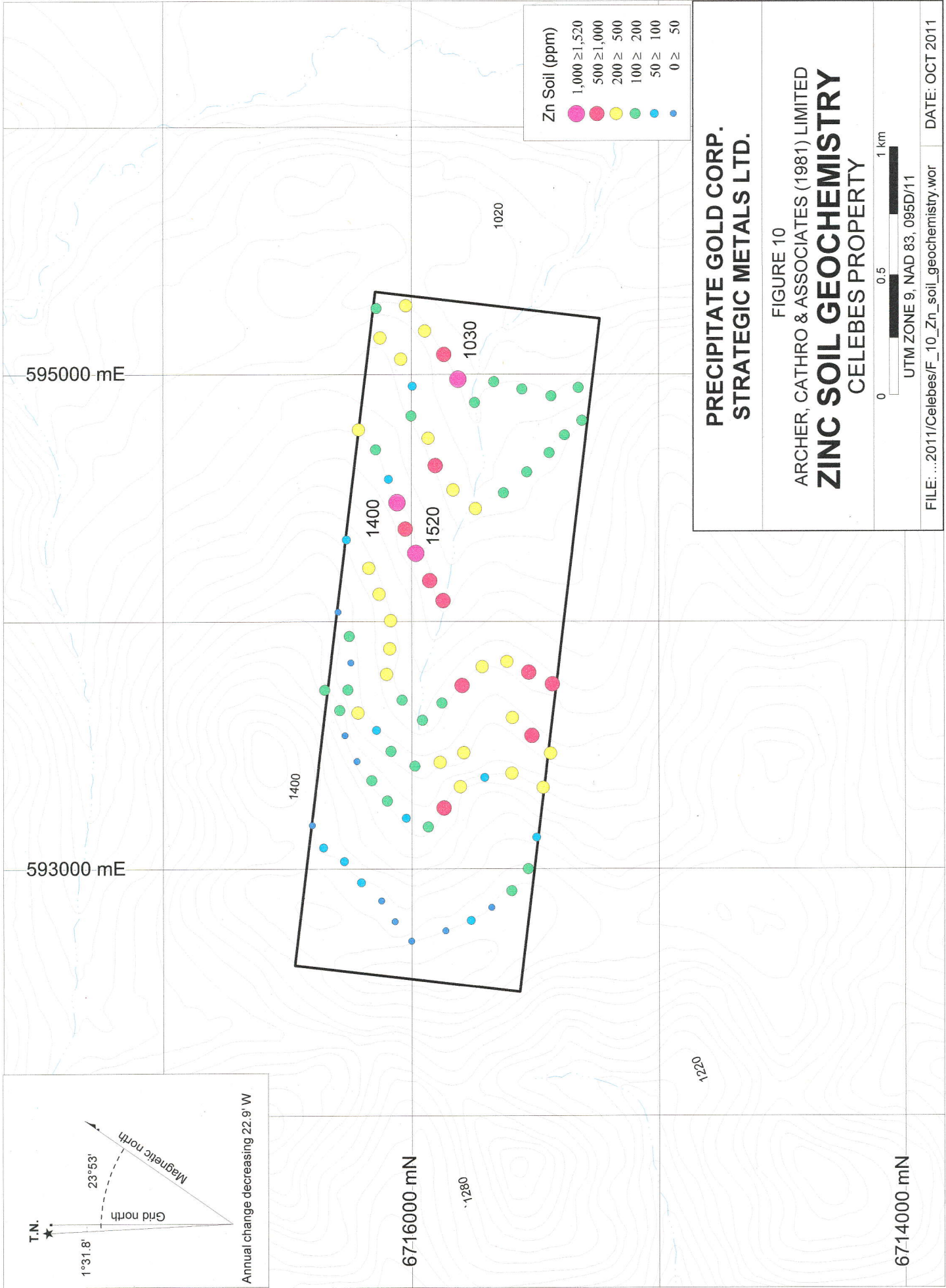
- Sb silt (ppm)**
- 5 ≥ 8.63
  - 2 ≥ 5
  - 1 ≥ 2
  - 0 ≥ 1
- Sb Soil (ppm)**
- 10 ≥ 17.5
  - 5 ≥ 10
  - 2 ≥ 5
  - 1 ≥ 2
  - 0 ≥ 1

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FIGURE 8  
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**ANTIMONY GEOCHEMISTRY**  
CELEBES PROPERTY

0 0.5 1 km  
UTM ZONE 9, NAD 83, 095D/11  
FILE: ...2011/Celebes/F\_8\_Sb\_geochemistry.wor DATE: OCT 2011





Zn Soil (ppm)

- 1,000 ≥ 1,520
- 500 ≥ 1,000
- 200 ≥ 500
- 100 ≥ 200
- 50 ≥ 100
- 0 ≥ 50

**PRECIPITATE GOLD CORP.  
STRATEGIC METALS LTD.**

FIGURE 10

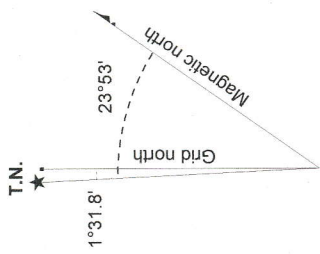
ARCHER, CATHRO & ASSOCIATES (1981) LIMITED  
**ZINC SOIL GEOCHEMISTRY**  
CELEBES PROPERTY



UTM ZONE 9, NAD 83, 095D/11

FILE:....2011/Celebes/F\_10\_Zn\_soil\_geochemistry.wor

DATE: OCT 2011



Annual change decreasing 22.9' W

6714000 mN

6716000 mN

595000 mE

593000 mE

1280

1220

1020

1400

1520

1030

ppm) values and numerous strongly anomalous antimony (10 to 17.5 ppm), lead (100 to 282 ppm) and zinc (1000 to 1510 ppm) values. Silver values on the property were low. The anomalous results occur within the unnamed volcanic group and Vampire Formation sedimentary rocks.

Stream sediment samples yielded weakly anomalous values for gold, arsenic and antimony and moderately anomalous values for lead and zinc.

No samples were collected near Minfile 095D 036.

### DISCUSSION AND CONCLUSIONS

Precipitate Gold's exploration program was designed to test the economic potential (particularly gold) of the Celebes property. The exploration program did not identify a high priority gold target, but did outline strongly anomalous base metal values, which could mark the outer halo of a zoned hydrothermal system.

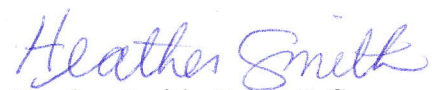
There are two base metal deposits in the region. The McMillan is a zinc-lead-silver manto deposit located 38 km west-southwest of the Celebes property. It is hosted within Late Proterozoic to Early Cambrian Hyland Group and contains 1.1 million tonnes grading 8.3% zinc, 4.1% lead and 62 g/t silver (Deklerk and Traynor, 2005). This deposit lies within the same hydrothermal system as the Hyland Gold Deposit, which is located about four kilometres to the east. The Mel is a Mississippi Valley Type (MVT) lead-zinc-barite deposit situated 25 km south of the Celebes property. It is hosted within Cambrian to Ordovician limestone and overlying calcareous slate or phyllite. Based on a 2001 estimate, it comprises 6.8 million tonnes grading 7.1% zinc, 2.0% lead and 54.7% barite (Deklerk and Traynor, 2005). Large arsenic-in-soil anomalies surround both the McMillan and Mel deposits.

Due to the limited amount of work on the Celebes property the style of mineralization present is speculative; however, two scenarios seem feasible: 1) the property could host a manto-type deposit within the Vampire Formation similar to the McMillan deposit; or 2) it could host remnant veins that were feeders to manto or MVT deposits that have been eroded.

Based on the gold and arsenic results, additional work should be conducted on a moderate priority basis peripheral to the property. Future work should begin with more wider ranging soil geochemical and prospecting surveys. If encouraging mineralization is located, additional claims should be staked.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED



Heather Smith, B.Sc., P.Geol.

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Yukon Geological Survey

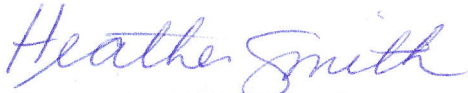
- 2010 Geoprocess File Summary Report for Coal River Map Area N.T.S. 095D; Available at: [http://ygsftp.gov.yk.ca/publications/openfile/2002/of2002\\_8d\\_geoprocess\\_file/documents/map\\_specific/095d.pdf](http://ygsftp.gov.yk.ca/publications/openfile/2002/of2002_8d_geoprocess_file/documents/map_specific/095d.pdf)

**APPENDIX I**  
**STATEMENT OF QUALIFICATIONS**

## STATEMENT OF QUALIFICATIONS

I, Heather Smith, geologist, with business addresses in Vancouver, British Columbia and Whitehorse, Yukon Territory and residential address at #604-175 West 1 Street, North Vancouver, British Columbia, V7M 3N9 do hereby certify that:

1. I graduated from the University of British Columbia in 2006 with a B. Sc. in Geological Sciences.
2. From 2004 to present, I have been actively engaged in mineral exploration in the Yukon Territory, British Columbia and Northwest Territories.
3. I am a Professional Geoscientist (P.Geo.) with the Association of Professional Engineers and Geoscientists of British Columbia (Member Number 150000).
4. I have personally directed the fieldwork reported herein and have interpreted all data resulting from this work.



Heather Smith, B.Sc., P.Geo.

**APPENDIX II**  
**CERTIFICATE OF ANALYSIS**



ALS Canada Ltd.  
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ARCHER, CATHRO AND ASSOCIATES (1981)  
 LIMITED  
 1016-510 W HASTINGS ST  
 VANCOUVER BC V6B 1L8

Page: 1  
 Finalized Date: 7 -JUL-2011  
 Account: F

**CERTIFICATE WH11107176**

Project: Fireside-Celebes  
 P.O. No.:  
 This report is for 90 Soil samples submitted to our lab in Whitehorse, YT, Canada on  
 14-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  
 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:**   
 Collin Ramshaw, Vancouver Laboratory Manager



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
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Page: 2 - A  
 Total # Pages: 4 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 7 - JUL - 2011  
 Account: F

Project: Fireside-Celebes

**CERTIFICATE OF ANALYSIS WH11107176**

Method Analyte Units LOR	Sample Description	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 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
CC114253		0.20	0.001	0.08	0.92	15.3	<0.2	80	0.35	0.28	0.05	0.31	32.9	6.5	12
CC114254		0.22	<0.001	0.07	0.93	10.7	<0.2	70	0.28	0.25	0.11	0.25	34.5	4.9	13
CC114255		0.18	<0.001	0.11	0.52	12.2	<0.2	30	0.19	0.32	0.02	0.05	25.4	3.4	6
CC114256		0.16	<0.001	0.17	0.38	6.6	<0.2	40	0.13	0.14	0.04	0.09	25.1	1.7	3
CC114257		0.22	0.002	0.08	0.54	59.4	<0.2	70	0.48	0.42	0.28	0.28	36.4	12.1	6
CC114258		0.26	0.004	0.11	0.61	60.0	<0.2	80	0.56	0.47	0.32	0.31	38.5	13.0	7
CC114259		0.16	0.002	0.22	0.78	32.9	<0.2	100	0.29	0.44	0.10	0.18	25.7	6.5	8
CC114260		0.14	<0.001	0.29	0.69	31.2	<0.2	150	0.31	0.34	0.56	0.55	19.85	8.4	7
CC114261		0.10	<0.001	0.16	0.65	15.2	<0.2	110	0.34	0.21	2.03	2.23	10.70	6.2	5
CC114262		0.18	0.001	0.11	0.45	35.7	<0.2	40	0.27	0.43	0.03	0.39	48.5	10.9	6
CC114263		0.16	<0.001	0.09	0.48	20.7	<0.2	50	0.16	0.32	0.02	0.30	37.1	4.8	6
CC114264		0.26	0.001	0.10	0.53	26.2	<0.2	60	0.22	0.33	0.10	0.63	34.8	5.9	6
CC114265		0.26	0.001	0.07	1.10	28.3	<0.2	90	0.41	0.37	0.75	0.75	42.8	9.0	14
CC114266		0.16	0.003	0.23	0.78	62.8	<0.2	100	0.55	0.37	0.75	0.97	44.8	12.0	8
CC114267		0.14	0.005	0.16	0.84	48.1	<0.2	100	0.51	0.36	0.50	0.79	40.6	10.4	10
CC114268		0.30	0.003	0.18	0.81	59.7	<0.2	60	0.48	0.35	0.19	0.61	67.7	13.2	10
CC114269		0.18	0.002	0.07	1.08	29.5	<0.2	110	0.41	0.27	0.42	0.47	35.4	8.5	15
CC114270		0.26	0.001	0.22	0.79	26.6	<0.2	80	0.34	0.22	0.90	0.79	25.9	8.9	12
CC114271		0.18	0.002	0.12	0.62	10.8	<0.2	120	0.34	0.14	3.04	2.22	16.60	4.6	5
CC114272		0.20	0.002	0.21	0.64	41.4	<0.2	100	0.44	0.39	0.44	0.28	30.1	10.8	8
CC114273		0.20	0.003	0.03	0.77	36.7	<0.2	110	0.49	0.33	0.49	0.39	32.3	9.4	7
CC114274		0.12	0.001	0.08	1.07	25.3	<0.2	120	0.48	0.28	0.45	0.56	46.8	7.9	12
CC114275		0.16	<0.001	0.07	1.06	18.6	<0.2	110	0.39	0.21	0.38	0.45	34.5	7.3	15
CC114276		0.12	0.002	0.12	0.81	40.7	<0.2	80	0.51	0.32	0.92	0.68	44.9	12.5	11
CC114277		0.16	0.001	0.14	1.16	31.7	<0.2	120	0.58	0.22	0.85	0.50	45.5	11.6	18
CC114278		0.16	<0.001	0.09	1.10	16.4	<0.2	180	0.54	0.22	0.67	0.76	38.1	8.1	11
CC114279		0.12	<0.001	0.11	0.57	6.0	<0.2	70	0.20	0.15	0.66	0.52	18.35	2.5	7
CC114280		0.26	0.001	0.46	1.43	17.7	<0.2	140	0.54	0.26	0.36	0.46	34.1	6.9	20
CC114281		0.12	0.001	0.09	0.87	17.4	<0.2	120	0.30	0.22	0.38	0.43	24.7	4.9	10
CC114282		0.14	<0.001	0.09	0.70	8.5	<0.2	100	0.43	0.16	0.73	0.80	35.4	3.4	8
CC114283		0.16	0.002	0.29	0.80	32.9	<0.2	120	0.52	0.26	1.49	3.15	26.0	8.1	8
CC114284		0.28	0.002	0.19	0.70	69.0	<0.2	80	0.48	0.38	0.44	0.97	56.0	13.6	8
CC114285		0.26	0.003	0.34	0.67	47.1	<0.2	60	0.50	0.30	1.10	2.04	43.2	10.9	9
CC114286		0.18	0.002	0.32	0.76	33.9	<0.2	110	0.54	0.20	2.97	2.25	18.90	8.3	6
CC114287		0.14	0.002	0.25	0.66	26.9	<0.2	100	0.38	0.21	2.05	1.39	19.85	8.3	7
CC114288		0.10	<0.001	0.04	0.69	2.2	<0.2	80	0.08	0.19	0.10	0.06	30.7	0.4	6
CC114289		0.18	0.001	0.15	0.77	21.2	<0.2	90	0.18	0.28	0.04	0.24	30.2	3.2	12
CC114290		0.18	0.001	0.09	0.83	25.3	<0.2	60	0.22	0.30	0.01	0.12	33.6	3.8	12
CC114291		0.26	0.001	0.06	0.56	39.6	<0.2	50	0.23	0.35	0.01	0.11	38.4	7.1	7
CC114292		0.08	0.001	0.07	0.47	5.3	<0.2	40	0.08	0.14	<0.01	0.04	18.95	1.1	5

Project: Fireside-Celebes



**CERTIFICATE OF ANALYSIS WH11107176**

Method Analyte Units LOR	ME-MS41 Cs ppm	ME-MS41 Cu ppm	ME-MS41 Fe %	ME-MS41 Ga ppm	ME-MS41 Ge ppm	ME-MS41 Hf ppm	ME-MS41 Hg ppm	ME-MS41 In ppm	ME-MS41 K %	ME-MS41 La ppm	ME-MS41 Li ppm	ME-MS41 Mg %	ME-MS41 Mn ppm	ME-MS41 Mo ppm	ME-MS41 Na %
CC114253	0.87	10.2	2.61	4.27	0.06	<0.02	0.01	0.022	0.06	16.7	10.7	0.16	178	0.78	0.01
CC114254	1.10	6.9	2.16	4.91	0.06	<0.02	0.02	0.023	0.06	18.0	10.5	0.27	146	0.82	<0.01
CC114255	0.88	9.3	1.71	3.40	<0.05	<0.02	0.01	0.013	0.04	13.2	2.4	0.05	83	0.65	<0.01
CC114256	0.74	25.9	3.42	1.67	0.08	0.11	0.05	0.035	0.07	19.4	8.3	0.17	368	0.39	0.01
CC114257	0.81	29.4	3.84	1.56	0.08	0.05	0.04	0.036	0.06	21.2	9.7	0.12	333	0.39	0.01
CC114258	1.28	14.3	2.79	3.33	0.06	0.02	0.03	0.030	0.05	13.9	8.3	0.12	377	0.64	0.01
CC114259	0.76	15.1	2.70	2.83	0.06	0.06	0.06	0.029	0.04	11.4	8.2	0.17	662	0.56	0.01
CC114260	0.49	14.4	2.74	2.25	<0.05	0.07	0.12	0.020	0.03	5.8	5.4	0.16	1090	0.45	0.02
CC114261	0.73	25.5	4.01	1.92	0.09	0.03	0.03	0.029	0.03	25.3	4.3	0.07	408	0.61	0.01
CC114262	1.03	13.3	2.14	3.49	0.06	<0.02	0.04	0.018	0.03	19.5	2.8	0.05	123	0.78	0.01
CC114263	0.63	13.8	2.45	2.74	0.07	<0.02	0.03	0.021	0.03	18.1	5.4	0.08	172	0.80	0.01
CC114264	1.01	11.4	2.95	4.40	0.07	0.02	0.02	0.029	0.04	22.3	15.5	0.27	674	1.00	0.01
CC114265	0.88	26.2	3.81	2.30	0.10	0.08	0.15	0.039	0.06	24.1	9.8	0.17	434	0.91	0.01
CC114266	0.81	19.7	3.44	2.78	0.08	0.05	0.09	0.036	0.06	21.8	11.4	0.18	327	0.71	0.01
CC114267	0.82	27.5	4.01	2.61	0.11	0.02	0.09	0.035	0.06	35.4	12.2	0.20	441	1.04	0.01
CC114268	0.85	12.7	3.00	3.83	0.07	0.03	0.05	0.030	0.05	18.0	14.2	0.31	321	1.01	0.01
CC114269	1.02	13.8	2.76	3.11	0.06	0.05	0.03	0.024	0.04	12.6	10.0	0.29	491	0.91	0.01
CC114270	0.44	15.1	1.19	1.98	0.05	0.06	0.12	0.015	0.04	10.5	4.5	0.14	517	0.53	0.02
CC114271	0.65	19.7	3.17	2.01	0.07	0.07	0.05	0.032	0.05	16.2	9.0	0.14	541	0.58	0.01
CC114272	0.69	20.4	2.88	2.28	0.07	0.09	0.05	0.026	0.05	17.3	9.3	0.16	411	0.46	0.01
CC114273	1.01	12.4	2.78	4.47	0.09	0.02	0.03	0.029	0.06	23.4	13.9	0.33	387	1.05	0.01
CC114274	1.02	9.4	2.59	4.16	0.07	0.02	0.03	0.024	0.05	18.2	13.6	0.32	260	0.79	0.01
CC114275	0.83	25.4	3.50	2.74	0.09	0.07	0.08	0.035	0.08	23.2	12.1	0.35	424	0.78	0.01
CC114276	0.84	20.7	3.80	4.15	0.11	0.06	0.06	0.039	0.06	23.6	12.4	0.44	391	1.23	0.01
CC114277	0.66	11.0	2.88	4.27	0.07	0.03	0.03	0.032	0.05	19.1	10.0	0.20	358	1.06	0.01
CC114278	0.61	6.6	1.08	3.43	<0.05	<0.02	0.05	0.011	0.03	9.7	4.2	0.11	74	0.93	0.01
CC114279	1.09	8.4	2.80	4.77	0.08	0.02	0.05	0.025	0.04	16.8	17.3	0.38	238	0.97	0.01
CC114280	0.55	8.8	1.98	4.09	0.05	<0.02	0.03	0.019	0.03	12.8	10.2	0.18	182	1.00	0.01
CC114281	1.71	13.6	1.35	3.22	0.06	0.02	0.03	0.020	0.05	19.8	5.1	0.13	184	0.87	0.01
CC114282	0.68	20.5	2.81	2.65	0.07	0.09	0.18	0.029	0.08	14.2	8.6	0.18	465	0.85	0.02
CC114283	0.81	27.9	3.76	2.34	0.10	0.06	0.09	0.035	0.08	28.5	10.0	0.18	515	0.81	0.01
CC114284	0.77	25.5	3.34	2.19	0.09	0.06	0.34	0.033	0.09	22.4	9.4	0.43	396	0.87	0.01
CC114285	0.69	28.9	2.24	2.13	0.06	0.09	0.23	0.025	0.07	11.5	7.0	0.18	466	0.68	0.02
CC114286	0.55	19.7	2.25	2.01	0.06	0.07	0.16	0.022	0.05	10.4	7.9	0.18	529	0.56	0.01
CC114287	0.53	1.8	0.25	5.06	<0.05	<0.02	0.02	0.006	0.03	16.3	2.0	0.04	20	0.19	0.01
CC114288	1.01	7.0	1.92	4.47	0.15	<0.02	0.02	0.022	0.07	16.3	7.0	0.11	219	0.90	0.01
CC114289	0.99	7.4	2.17	3.93	0.16	<0.02	0.04	0.017	0.04	18.6	8.9	0.15	128	0.81	<0.01
CC114290	1.26	16.3	2.81	2.62	0.16	<0.02	0.01	0.021	0.04	21.4	4.8	0.07	216	0.50	0.01
CC114291	0.89	3.2	0.50	3.20	0.14	<0.02	0.03	0.006	0.03	10.5	2.0	0.04	42	0.23	0.01



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**CERTIFICATE OF ANALYSIS WH11107176**

Method Analyte Units LOR	ME-MS41 Nb ppm	ME-MS41 Ni ppm	ME-MS41 P ppm	ME-MS41 Pb ppm	ME-MS41 Rb ppm	ME-MS41 Re ppm	ME-MS41 S %	ME-MS41 Sb ppm	ME-MS41 Sc ppm	ME-MS41 Se ppm	ME-MS41 Sn ppm	ME-MS41 Sr ppm	ME-MS41 Ta ppm	ME-MS41 Te ppm	ME-MS41 Th ppm
CC114253	0.76	15.7	770	26.9	12.7	<0.001	0.01	1.89	1.1	0.3	0.5	5.0	<0.01	0.02	1.3
CC114254	0.78	12.8	890	21.6	10.7	<0.001	0.01	1.24	0.9	0.3	0.5	8.5	<0.01	0.02	0.5
CC114255	0.41	10.0	500	11.4	6.3	<0.001	0.01	1.63	0.7	0.2	0.4	4.7	<0.01	0.02	0.6
CC114256	0.16	4.6	700	18.8	6.8	<0.001	0.01	1.67	0.6	0.2	0.4	5.0	<0.01	0.01	0.4
CC114257	0.19	28.3	520	49.4	5.7	<0.001	0.02	15.45	2.6	0.5	0.2	20.2	<0.01	0.03	7.8
CC114258	0.23	35.1	470	64.1	4.8	<0.001	0.01	17.45	2.8	0.5	0.2	14.8	<0.01	0.03	8.7
CC114259	0.33	14.0	1030	42.2	6.7	<0.001	0.03	6.95	1.3	0.4	0.4	7.8	<0.01	0.03	1.2
CC114260	0.46	15.1	1180	102.5	10.1	<0.001	0.06	6.64	1.6	0.6	0.4	13.9	0.01	0.03	1.5
CC114261	0.50	12.1	1010	58.8	3.8	<0.001	0.10	4.31	1.3	0.7	0.2	32.2	0.01	0.03	1.2
CC114262	0.35	23.8	440	107.0	7.4	<0.001	0.02	8.60	1.8	0.3	0.2	4.5	<0.01	0.04	10.6
CC114263	0.49	12.1	410	63.7	7.5	<0.001	0.02	4.64	1.1	0.3	0.4	4.6	<0.01	0.02	1.8
CC114264	0.35	14.8	450	90.7	7.0	<0.001	0.01	4.57	1.1	0.3	0.3	6.6	<0.01	0.03	2.2
CC114265	0.82	16.7	370	109.0	11.2	<0.001	0.01	3.56	2.1	0.4	0.5	6.2	<0.01	0.03	6.3
CC114266	0.27	28.7	1210	187.0	6.5	<0.001	0.03	11.10	2.9	0.8	0.3	28.7	<0.01	0.04	5.5
CC114267	0.38	22.3	730	154.0	7.5	<0.001	0.02	8.53	2.6	0.5	0.3	17.1	<0.01	0.03	5.1
CC114268	0.32	28.2	1100	169.5	6.1	<0.001	0.01	10.50	2.4	0.5	0.3	13.4	<0.01	0.04	7.8
CC114269	0.73	20.1	810	86.5	7.0	<0.001	0.02	3.99	2.1	0.5	0.4	15.8	<0.01	0.03	3.4
CC114270	0.67	18.1	1210	101.0	6.3	<0.001	0.04	4.86	1.5	0.6	0.3	27.9	<0.01	0.02	1.6
CC114271	0.58	10.2	1170	48.4	5.9	<0.001	0.14	2.69	1.1	1.1	0.2	66.3	0.01	0.02	0.6
CC114272	0.30	20.2	750	87.5	6.2	<0.001	0.05	8.75	2.0	0.7	0.2	16.1	<0.01	0.03	3.9
CC114273	0.39	21.5	650	67.7	5.5	<0.001	0.04	7.20	2.1	0.6	0.2	17.9	<0.01	0.03	5.1
CC114274	0.98	17.5	1200	57.4	11.9	<0.001	0.03	3.54	1.5	0.5	0.4	20.7	<0.01	0.03	1.7
CC114275	0.91	15.1	600	63.9	11.9	<0.001	0.02	2.57	1.9	0.4	0.4	19.2	<0.01	0.02	2.7
CC114276	0.77	27.6	850	108.5	6.7	<0.001	0.03	9.91	3.1	0.6	0.2	27.8	<0.01	0.03	7.5
CC114277	0.90	26.0	1360	77.4	8.8	<0.001	0.03	5.13	3.0	0.7	0.3	29.4	<0.01	0.02	3.4
CC114278	0.85	13.5	510	71.0	9.7	<0.001	0.03	2.57	1.9	0.5	0.5	15.9	<0.01	0.02	2.8
CC114279	0.56	5.9	600	22.4	5.5	<0.001	0.04	0.95	0.7	0.4	0.4	17.8	<0.01	0.02	0.2
CC114280	1.27	19.2	570	69.9	10.6	<0.001	0.01	2.27	2.0	0.5	0.5	12.5	<0.01	0.03	4.1
CC114281	0.70	12.0	530	39.6	6.5	<0.001	0.01	2.10	1.2	0.3	0.4	14.4	<0.01	0.02	1.0
CC114282	0.59	7.8	990	34.3	11.5	<0.001	0.02	1.03	0.9	0.5	0.4	27.2	<0.01	0.01	0.4
CC114283	0.63	19.9	900	219	8.0	<0.001	0.04	7.54	2.0	0.8	0.3	30.3	<0.01	0.03	2.8
CC114284	0.60	29.4	790	155.0	6.1	<0.001	0.01	17.10	2.9	0.6	0.2	17.1	<0.01	0.03	10.6
CC114285	0.45	26.5	1000	282	5.6	<0.001	0.01	14.55	2.8	0.7	0.2	22.8	<0.01	0.03	8.0
CC114286	0.40	20.8	1050	193.5	6.7	<0.001	0.09	11.30	1.4	1.0	0.2	57.8	0.01	0.02	1.2
CC114287	0.42	17.3	860	135.0	5.0	<0.001	0.06	6.46	1.5	0.9	0.2	41.5	<0.01	0.03	1.7
CC114288	0.24	1.5	360	10.5	4.2	<0.001	0.03	0.38	0.5	0.2	0.6	6.0	<0.01	0.01	0.2
CC114289	0.36	7.9	640	36.1	9.2	<0.001	0.01	4.00	0.5	<0.2	0.6	5.7	<0.01	0.02	0.4
CC114290	0.82	9.8	390	21.8	8.7	<0.001	0.01	3.58	1.1	<0.2	0.5	4.9	<0.01	0.02	3.8
CC114291	0.13	16.8	640	26.9	7.5	<0.001	0.01	8.90	0.7	<0.2	0.3	4.8	0.02	0.02	1.4
CC114292	0.08	2.8	620	9.9	5.3	<0.001	0.01	0.95	0.3	<0.2	0.4	3.9	<0.01	0.02	0.3



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**CERTIFICATE OF ANALYSIS WH11107176**

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
CC114253	0.014	0.11	0.67	26	0.16	2.49	143	<0.5
CC114254	0.018	0.09	0.52	29	0.22	2.88	131	<0.5
CC114255	0.010	0.10	0.51	17	0.13	1.34	34	<0.5
CC114256	0.006	0.10	0.34	11	0.10	1.20	24	<0.5
CC114257	<0.005	0.07	0.88	8	0.07	6.27	129	3.5
CC114258	<0.005	0.06	1.05	8	0.07	8.81	136	1.8
CC114259	0.007	0.10	0.84	17	0.11	3.26	69	0.5
CC114260	0.009	0.10	0.87	15	0.13	6.72	159	1.4
CC114261	0.009	0.10	0.72	10	0.07	3.81	550	2.3
CC114262	<0.005	0.11	0.94	10	0.06	3.32	237	1.4
CC114263	0.011	0.10	0.67	20	0.17	1.94	88	<0.5
CC114264	0.007	0.12	0.62	17	0.15	2.31	208	<0.5
CC114265	0.010	0.16	0.69	30	0.15	3.44	372	0.5
CC114266	<0.005	0.23	1.20	13	0.08	9.33	562	2.6
CC114267	0.005	0.17	1.19	15	0.09	6.30	534	1.5
CC114268	0.007	0.18	1.06	16	0.07	6.26	471	<0.5
CC114269	0.011	0.13	0.69	27	0.12	4.15	385	0.8
CC114270	0.014	0.12	0.69	19	0.10	4.50	514	1.4
CC114271	0.010	0.07	0.89	9	0.08	7.16	188	2.0
CC114272	0.005	0.08	0.91	10	0.09	7.53	155	2.0
CC114273	<0.005	0.08	1.03	11	0.07	6.96	159	2.6
CC114274	0.015	0.11	0.67	23	0.15	6.09	292	0.5
CC114275	0.016	0.12	0.51	27	0.19	3.20	306	0.5
CC114276	0.010	0.12	0.87	15	0.07	7.95	321	2.7
CC114277	0.016	0.13	0.67	29	0.18	8.10	350	1.7
CC114278	0.008	0.13	0.56	25	0.12	3.07	355	1.0
CC114279	0.013	0.07	0.34	20	0.18	1.50	68	<0.5
CC114280	0.018	0.17	1.51	34	0.22	3.98	343	0.6
CC114281	0.014	0.10	0.45	27	0.19	2.47	187	<0.5
CC114282	0.012	0.10	0.58	18	0.12	4.32	82	<0.5
CC114283	0.007	0.20	0.87	14	0.10	7.46	1400	2.7
CC114284	0.006	0.15	1.16	12	0.07	6.68	642	2.8
CC114285	0.006	0.26	0.99	12	0.07	9.02	1520	2.2
CC114286	0.005	0.15	2.03	10	0.06	9.47	839	3.0
CC114287	0.006	0.10	1.34	11	0.06	5.95	511	2.3
CC114288	0.009	0.08	0.29	19	0.07	1.15	13	<0.5
CC114289	0.015	0.09	0.45	30	0.37	1.82	85	<0.5
CC114290	0.017	0.07	0.44	29	0.26	1.84	57	<0.5
CC114291	0.009	0.07	0.56	15	0.08	2.33	63	0.5
CC114292	0.008	0.07	0.27	13	0.06	0.97	12	<0.5



Project: Fireside-Celebes

**CERTIFICATE OF ANALYSIS WH11107176**

Method Analyte Units LOR	WEI-21 Recvd Wt. kg	AU-TL43 Au ppm	ME-MS41 Ag ppm	ME-MS41 Au ppm	ME-MS41 As ppm	ME-MS41 Ba ppm	ME-MS41 Bi ppm	ME-MS41 Be ppm	ME-MS41 B ppm	ME-MS41 Ca %	ME-MS41 Cd ppm	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm	ME-MS41 ME-MS41
CC114293	0.06	<0.001	0.16	0.24	1.8	20	0.07	0.05	<10	<0.01	0.07	5.85	0.6	3	3
CC114294	0.10	0.001	0.11	0.74	17.5	60	0.31	0.13	<10	0.01	0.10	27.7	3.0	11	11
CC114295	0.14	<0.001	0.04	0.52	16.5	40	0.32	0.13	<10	<0.01	0.07	27.7	4.5	9	9
CC114296	0.08	0.001	0.04	1.14	20.1	90	0.24	0.24	<10	0.12	0.09	28.7	6.8	17	17
CC114297	0.08	0.001	0.08	0.74	6.8	60	0.25	0.10	<10	0.01	0.04	27.4	1.4	10	10
CC114298	0.20	0.002	0.17	1.47	29.0	120	0.36	1.64	<10	0.15	0.40	43.9	14.0	20	20
CC114299	0.20	0.002	0.07	0.84	39.4	60	0.44	0.47	<10	<0.01	0.14	59.1	9.2	11	11
CC114300	0.16	0.001	0.08	0.68	36.2	40	0.29	0.41	<10	<0.01	0.06	53.7	6.9	9	9
CC114514	0.26	0.004	0.16	0.62	40.2	100	0.47	0.34	<10	0.46	0.54	33.0	10.7	8	8
CC114515	0.38	0.007	0.18	0.85	31.0	140	0.31	0.57	<10	0.73	1.11	40.6	11.5	10	10
CC114516	0.26	0.004	0.16	0.71	26.9	110	0.26	0.48	<10	0.67	1.12	38.7	9.7	9	9
CC114517	0.38	0.002	0.17	0.69	31.8	90	0.24	0.43	<10	0.68	1.04	36.2	9.6	10	10
CC114518	0.28	0.002	0.24	0.83	36.4	130	0.55	1.01	<10	1.61	1.61	37.8	11.5	12	12
CC114519	0.30	0.002	0.16	0.69	30.2	80	0.40	0.22	<10	0.86	0.91	34.0	11.3	12	12
CC114520	0.20	0.002	0.23	0.98	24.8	100	0.16	0.57	<10	1.69	0.48	33.9	10.9	12	12
CC114521	0.14	0.001	0.12	0.80	9.9	280	0.13	0.38	<10	2.74	1.00	18.95	6.8	12	12
CC114522	0.24	0.002	0.17	1.10	25.8	160	0.23	0.62	<10	1.08	0.49	41.5	9.8	16	16
CC114523	0.28	0.001	0.32	1.75	21.8	320	1.13	1.13	<10	0.99	1.45	45.2	11.8	24	24
CC114524	0.20	0.001	0.28	1.25	21.1	210	0.62	0.62	<10	1.13	0.44	36.4	7.7	18	18
CC114525	0.24	0.003	0.30	0.92	56.0	100	0.25	0.56	<10	0.99	3.09	42.1	13.6	12	12
CC114526	0.20	0.003	0.45	0.98	66.3	90	0.25	0.66	<10	1.31	1.73	69.3	17.1	10	10
CC114527	0.26	0.012	0.21	0.92	33.5	110	0.22	0.64	<10	1.48	1.92	53.2	13.2	11	11
CC114528	0.16	0.011	0.14	0.84	21.7	110	0.16	0.48	<10	1.94	0.93	32.9	9.7	16	16
CC114529	0.10	0.017	0.22	1.03	7.1	180	0.46	0.46	<10	2.12	1.05	18.55	5.4	14	14
CC114530	0.30	0.004	0.02	1.72	16.1	160	0.27	0.72	<10	0.20	0.52	34.7	10.3	25	25
CC114531	0.38	0.004	0.11	1.49	28.7	120	0.22	0.67	<10	0.17	0.25	58.6	10.3	21	21
CC114532	0.26	0.003	0.04	0.99	5.6	100	0.16	0.23	<10	0.10	0.19	36.5	2.7	15	15
CC114533	0.16	0.014	0.13	0.98	5.1	160	0.32	0.32	<10	0.33	1.21	28.5	3.4	13	13
CC114534	0.24	0.003	0.19	1.10	16.9	130	0.46	0.46	<10	0.52	0.72	33.2	6.1	16	16
CC114535	0.24	0.011	0.26	0.88	45.3	130	0.26	0.47	<10	0.89	0.72	41.6	8.1	11	11
CC114536	0.32	0.005	0.31	1.00	30.3	140	0.23	0.62	<10	0.88	1.39	30.1	7.3	16	16
CC114537	0.20	0.005	0.21	0.72	34.6	100	0.37	0.37	<10	0.96	1.62	27.5	9.0	10	10
CC114538	0.26	0.003	0.08	1.46	22.2	200	0.71	0.25	<10	0.56	0.40	52.5	14.2	24	24
CC114539	0.10	0.003	0.06	1.07	13.0	160	0.37	0.37	<10	1.27	0.43	24.6	7.7	13	13
CC114540	0.20	0.006	0.17	1.35	13.2	180	0.62	0.62	<10	1.85	0.35	33.5	11.6	19	19
CC114541	0.16	0.009	0.21	1.18	16.3	150	0.15	0.55	<10	2.35	0.41	30.9	10.5	17	17
CC114542	0.24	0.009	0.22	0.85	27.1	110	0.44	0.44	<10	2.40	0.55	26.4	10.1	8	8
CC114551	0.06	0.005	0.55	0.61	5.3	170	0.39	0.07	<10	4.13	4.17	9.85	2.7	3	3
CC114552	0.16	0.004	0.16	0.84	65.0	80	0.57	0.33	<10	0.27	0.80	56.0	12.9	10	10
CC114553	0.14	0.001	0.14	1.29	6.7	90	0.21	0.26	<10	0.10	0.24	33.4	3.7	17	17



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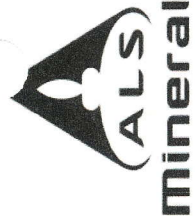
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**CERTIFICATE OF ANALYSIS WH11107176**

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
CC114293		0.43	2.3	0.30	1.37	0.13	<0.02	0.03	<0.005	0.02	3.3	0.7	0.02	16	0.17	0.02
CC114294		1.17	7.7	1.57	5.10	0.14	<0.02	0.03	0.014	0.03	15.0	4.6	0.10	120	0.70	<0.01
CC114295		0.68	9.4	2.20	3.46	0.15	<0.02	0.02	0.013	0.03	15.1	3.6	0.07	172	0.74	<0.01
CC114296		1.00	13.7	3.67	4.06	0.15	<0.02	0.03	0.030	0.03	15.7	24.6	0.24	242	0.86	0.01
CC114297		1.05	3.6	1.10	4.41	0.15	<0.02	0.03	0.011	0.03	14.6	5.2	0.09	71	0.51	<0.01
CC114298		1.07	17.4	7.01	1.99	0.17	0.11	0.04	0.066	0.03	18.0	18.7	0.12	1130	0.69	0.01
CC114299		1.14	26.4	3.97	2.65	0.17	<0.02	0.02	0.034	0.04	32.4	14.5	0.14	304	0.73	0.01
CC114300		0.96	18.7	3.58	3.29	0.17	<0.02	0.02	0.028	0.03	29.2	8.7	0.09	199	0.65	<0.01
CC114514		0.54	21.7	3.25	1.75	0.16	0.06	0.05	0.026	0.05	18.4	10.1	0.15	541	0.44	0.01
CC114515		0.75	20.4	3.23	2.47	0.16	0.06	0.08	0.030	0.07	22.1	13.1	0.26	1100	0.54	0.01
CC114516		0.60	16.5	2.92	2.18	0.17	0.05	0.08	0.026	0.06	21.3	11.4	0.23	1040	0.46	0.01
CC114517		0.61	16.4	2.88	2.06	0.16	0.05	0.09	0.025	0.05	19.8	10.4	0.25	631	0.54	0.01
CC114518		0.73	22.1	3.18	2.40	0.17	0.06	0.12	0.027	0.07	20.3	11.8	0.29	868	0.61	0.01
CC114519		0.70	19.8	3.21	2.03	0.16	0.05	0.08	0.025	0.06	18.5	9.5	0.36	615	0.74	0.01
CC114520		0.59	26.4	3.54	2.72	0.16	0.07	0.08	0.032	0.08	17.9	9.3	0.30	541	1.28	0.01
CC114521		0.50	13.7	1.74	2.39	0.15	0.06	0.07	0.017	0.05	10.1	7.4	0.26	527	0.67	0.02
CC114522		0.72	22.5	3.16	3.26	0.17	0.05	0.07	0.031	0.07	22.0	12.4	0.33	395	1.10	0.01
CC114523		1.19	35.1	3.42	5.30	0.18	0.05	0.06	0.036	0.10	23.0	17.8	0.39	604	1.20	0.01
CC114524		0.79	20.8	3.12	3.52	0.16	0.06	0.09	0.029	0.07	13.4	13.4	0.34	306	0.99	0.01
CC114525		0.94	30.9	3.71	2.56	0.18	0.09	0.15	0.038	0.12	22.0	11.1	0.23	614	1.24	0.01
CC114526		0.97	35.5	4.72	2.90	0.21	0.11	0.17	0.045	0.13	35.8	11.6	0.45	801	1.51	0.01
CC114527		0.65	25.9	4.13	2.60	0.19	0.06	0.07	0.034	0.09	26.6	10.3	0.41	619	1.61	0.01
CC114528		0.62	20.7	3.19	2.59	0.18	0.07	0.06	0.028	0.07	17.1	9.3	0.36	346	1.09	0.01
CC114529		0.53	13.0	1.68	3.18	0.14	0.04	0.07	0.019	0.05	9.8	10.2	0.20	341	0.57	0.01
CC114530		1.07	10.8	3.60	4.33	0.16	0.04	0.01	0.035	0.07	18.3	23.4	0.42	390	1.44	<0.01
CC114531		0.94	17.0	3.85	3.90	0.19	0.02	0.06	0.034	0.06	29.4	19.4	0.36	241	1.66	<0.01
CC114532		0.68	2.9	1.47	5.16	0.14	<0.02	0.01	0.010	0.04	19.6	11.0	0.23	98	0.50	<0.01
CC114533		0.77	8.8	1.28	4.04	0.15	<0.02	0.02	0.016	0.05	15.2	8.4	0.18	114	0.59	<0.01
CC114534		0.92	10.2	2.48	4.21	0.15	0.02	0.03	0.020	0.05	18.3	15.4	0.31	252	0.86	<0.01
CC114535		0.83	16.2	3.09	2.46	0.15	0.04	0.10	0.029	0.10	23.1	10.1	0.20	296	0.77	0.01
CC114536		0.74	19.3	2.67	2.78	0.15	0.04	0.09	0.022	0.06	16.6	11.8	0.30	331	0.68	0.01
CC114537		0.56	14.8	2.85	2.09	0.15	0.05	0.10	0.024	0.06	14.9	9.6	0.23	508	0.53	0.01
CC114538		0.92	22.2	3.87	4.87	0.10	0.08	0.06	0.038	0.08	26.2	16.8	0.20	690	1.51	0.01
CC114539		0.75	11.3	2.62	4.32	<0.05	0.06	0.06	0.025	0.05	12.3	9.5	0.27	279	1.28	0.02
CC114540		0.70	23.0	3.40	4.37	0.06	0.07	0.08	0.031	0.06	17.3	12.7	0.50	635	1.12	0.01
CC114541		0.72	23.7	3.10	3.94	0.05	0.08	0.09	0.022	0.06	16.2	10.8	0.45	527	1.12	0.02
CC114542		0.49	23.9	2.93	2.63	<0.05	0.08	0.08	0.027	0.05	13.8	7.2	0.23	697	1.16	0.02
CC114551		0.33	13.9	0.81	1.22	<0.05	0.08	0.14	0.008	0.03	5.9	2.3	0.11	505	0.47	0.02
CC114552		1.02	27.0	4.12	2.42	0.09	0.03	0.11	0.037	0.07	27.2	12.3	0.20	586	1.05	0.01
CC114553		0.78	4.6	1.75	6.18	<0.05	0.02	0.02	0.017	0.03	17.4	15.3	0.24	169	0.76	0.01



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Method Analyte Units LOR	ME-MS41 Ni ppm	ME-MS41 P ppm	ME-MS41 Pb ppm	ME-MS41 Rb ppm	ME-MS41 Re ppm	ME-MS41 S %	ME-MS41 Sb ppm	ME-MS41 Sc ppm	ME-MS41 Se ppm	ME-MS41 Sn ppm	ME-MS41 Sr ppm	ME-MS41 Ta ppm	ME-MS41 Te ppm	ME-MS41 Th ppm
CC114293	<0.05	1.6	600	7.0	2.1	<0.001	0.02	0.1	<0.2	0.2	3.7	<0.01	<0.01	<0.2
CC114294	0.32	8.0	450	20.8	5.8	<0.001	0.02	0.3	<0.2	0.6	5.8	<0.01	0.03	0.2
CC114295	0.23	10.2	550	17.2	4.1	<0.001	0.01	0.4	<0.2	0.4	3.6	<0.01	0.03	0.6
CC114296	0.60	18.3	540	26.9	7.2	<0.001	0.02	1.3	<0.2	0.5	8.7	<0.01	0.03	2.3
CC114297	0.14	4.1	590	11.1	6.7	<0.001	0.01	0.2	0.2	0.6	4.4	<0.01	0.02	0.3
CC114298	0.47	25.7	1050	89.5	5.6	<0.001	0.03	2.3	0.7	0.2	9.6	<0.01	0.04	4.5
CC114299	0.27	24.7	360	53.4	7.9	<0.001	<0.01	1.9	0.5	0.3	4.2	<0.01	0.04	8.1
CC114300	0.44	17.4	560	48.2	6.7	<0.001	<0.01	1.5	<0.2	0.4	4.0	<0.01	0.04	9.8
CC114514	0.15	22.3	710	87.7	4.7	<0.001	0.02	1.8	0.4	0.2	16.8	<0.01	0.04	3.8
CC114515	0.54	23.4	1200	85.4	6.6	<0.001	0.04	2.1	0.6	0.3	26.4	<0.01	0.03	4.1
CC114516	0.49	19.8	1090	87.2	5.4	<0.001	0.03	1.7	0.4	0.2	24.2	<0.01	0.03	4.1
CC114517	0.36	19.5	1030	113.5	5.1	<0.001	0.03	1.7	0.3	0.2	24.0	<0.01	0.03	4.0
CC114518	0.44	23.7	1200	134.0	6.2	<0.001	0.04	2.1	0.8	0.2	31.9	<0.01	0.02	3.8
CC114519	0.36	22.2	1230	100.5	4.5	<0.001	0.03	2.1	0.6	0.2	27.5	<0.01	0.04	3.8
CC114520	0.33	22.7	1820	36.7	6.0	<0.001	0.04	2.6	0.5	0.2	46.9	<0.01	0.03	2.0
CC114521	0.49	13.8	1060	17.7	5.3	<0.001	0.09	1.3	0.6	0.2	58.5	<0.01	0.02	0.9
CC114522	0.51	21.5	1660	52.4	7.2	<0.001	0.03	2.6	0.7	0.3	37.3	<0.01	0.02	2.6
CC114523	0.89	34.0	1290	46.7	10.5	<0.001	0.04	3.0	1.3	0.7	37.2	<0.01	0.03	2.1
CC114524	0.59	21.0	1520	48.7	7.3	<0.001	0.04	2.5	0.7	0.4	39.3	<0.01	0.02	2.5
CC114525	0.27	30.0	1560	215	8.3	<0.001	0.03	2.6	0.9	0.4	30.1	<0.01	0.03	3.9
CC114526	0.23	31.7	2630	187.0	6.3	<0.001	0.01	3.5	0.9	0.3	42.6	<0.01	0.04	7.3
CC114527	0.35	25.2	2300	75.5	5.8	<0.001	0.02	3.1	0.4	0.2	38.9	<0.01	0.03	3.6
CC114528	0.53	23.0	1610	45.5	6.2	<0.001	0.03	2.6	0.4	0.2	47.7	<0.01	0.03	2.2
CC114529	0.62	11.4	1280	19.0	5.3	<0.001	0.08	1.1	1.0	0.4	37.7	<0.01	0.02	0.7
CC114530	0.77	28.8	1180	20.9	10.2	<0.001	<0.01	2.1	0.2	0.5	12.9	<0.01	0.05	4.2
CC114531	0.69	24.4	1090	43.0	10.5	<0.001	<0.01	2.4	0.7	0.4	14.2	<0.01	0.03	6.2
CC114532	1.17	7.1	250	20.1	5.7	<0.001	<0.01	1.4	0.2	0.7	7.5	<0.01	0.02	4.3
CC114533	0.49	8.6	690	23.8	7.8	<0.001	0.01	0.8	<0.2	0.5	13.6	<0.01	0.01	0.6
CC114534	0.69	14.9	730	51.7	10.9	<0.001	0.01	1.6	<0.2	0.5	18.2	<0.01	0.02	2.0
CC114535	0.30	17.8	1070	147.5	7.2	<0.001	0.02	2.3	0.3	0.3	31.7	<0.01	0.03	4.9
CC114536	0.47	19.7	1110	93.5	6.2	<0.001	0.03	1.7	0.5	0.3	25.8	<0.01	0.02	1.9
CC114537	0.31	15.5	1060	118.5	5.3	<0.001	0.04	1.7	0.3	0.2	30.0	<0.01	0.02	2.5
CC114538	0.71	26.5	1420	44.7	8.5	<0.001	0.03	4.1	0.8	0.4	29.4	<0.01	0.07	4.0
CC114539	0.57	12.8	990	32.0	6.8	<0.001	0.06	2.1	0.8	0.3	37.8	<0.01	0.04	1.3
CC114540	0.60	21.8	1580	24.3	6.9	<0.001	0.07	3.0	0.9	0.2	56.2	<0.01	0.05	1.4
CC114541	0.70	21.8	1450	23.2	5.8	<0.001	0.08	2.8	1.0	0.2	65.0	<0.01	0.05	1.4
CC114542	0.38	19.2	1390	35.9	5.0	<0.001	0.07	2.0	0.8	0.2	58.4	<0.01	0.05	1.1
CC114551	0.24	10.9	1270	27.3	2.4	<0.001	0.17	0.8	1.0	<0.2	86.6	<0.01	<0.01	0.6
CC114552	0.19	27.1	1100	246	6.6	<0.001	0.03	2.8	0.5	0.4	18.0	<0.01	0.07	6.4
CC114553	1.20	8.7	230	27.8	7.8	<0.001	0.03	2.0	0.2	0.8	8.6	<0.01	0.02	3.3

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



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**CERTIFICATE OF ANALYSIS WH11107176**

Sample Description	Method Analyte Units LOR	ME-MS41 Ti % 0.005	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
CC114293		0.007	0.03	0.21	7	<0.05	0.38	6	<0.5
CC114294		0.015	0.08	0.47	30	0.21	1.66	33	<0.5
CC114295		0.010	0.08	0.42	24	0.14	1.68	38	<0.5
CC114296		0.011	0.09	0.57	30	0.26	2.18	74	<0.5
CC114297		0.009	0.10	0.39	24	0.14	1.28	20	<0.5
CC114298		0.006	0.14	1.72	21	0.09	9.59	171	3.9
CC114299		0.006	0.08	1.06	17	0.10	3.66	112	<0.5
CC114300		0.009	0.09	0.78	17	0.09	2.82	98	1.0
CC114514		0.006	0.06	1.12	11	0.06	9.28	215	1.7
CC114515		0.009	0.10	2.36	14	0.07	10.35	477	1.9
CC114516		0.009	0.08	1.66	13	0.06	8.54	511	1.6
CC114517		0.008	0.11	1.27	14	<0.05	7.38	537	1.5
CC114518		0.009	0.11	1.54	16	0.07	10.70	644	2.0
CC114519		0.009	0.09	0.99	17	0.06	9.17	484	1.4
CC114520		0.008	0.11	0.57	20	0.05	11.90	183	2.1
CC114521		0.010	0.06	1.49	18	0.06	6.03	147	1.9
CC114522		0.011	0.11	1.05	26	0.12	11.40	197	1.9
CC114523		0.014	0.12	2.16	41	0.24	13.15	173	1.5
CC114524		0.013	0.11	1.07	28	0.12	10.55	170	1.8
CC114525		0.006	0.28	0.91	18	0.08	11.80	1030	2.7
CC114526		0.007	0.35	0.84	20	0.07	15.60	664	3.1
CC114527		0.008	0.17	0.76	21	0.07	14.55	374	2.2
CC114528		0.012	0.10	0.67	24	0.08	10.15	219	2.1
CC114529		0.011	0.07	1.37	24	0.11	5.32	105	1.2
CC114530		0.014	0.11	0.59	40	0.24	4.40	246	0.8
CC114531		0.015	0.15	0.60	30	0.15	5.69	227	1.0
CC114532		0.029	0.08	0.39	34	0.23	2.48	74	0.8
CC114533		0.011	0.11	0.46	27	0.12	2.99	112	<0.5
CC114534		0.014	0.11	0.45	30	0.42	4.91	292	0.6
CC114535		0.007	0.23	0.74	17	0.08	6.95	658	1.2
CC114536		0.012	0.12	1.78	22	0.11	7.80	444	1.5
CC114537		0.007	0.09	1.75	14	0.05	5.99	427	1.6
CC114538		0.016	0.11	0.89	37	0.20	12.40	166	1.8
CC114539		0.010	0.09	0.73	27	0.10	6.89	106	1.7
CC114540		0.013	0.08	1.07	30	0.06	11.45	112	1.8
CC114541		0.015	0.09	0.85	27	0.08	11.05	112	2.1
CC114542		0.008	0.11	0.63	16	0.06	9.86	166	2.3
CC114551		0.007	0.06	0.76	5	0.05	6.81	229	2.5
CC114552		0.006	0.21	1.01	15	0.07	7.67	815	0.7
CC114553		0.022	0.10	0.46	45	0.22	2.36	247	<0.5

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**CERTIFICATE OF ANALYSIS WH11107176**

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 Cd ppm	ME-MS41 Ca %	ME-MS41 Ce ppm	ME-MS41 Co ppm	ME-MS41 Cr ppm
CC114554		0.12	0.003	0.08	1.02	27.4	<0.2	<10	110	0.37	0.38	0.59	0.10	31.2	8.3	13
CC114555		0.16	0.002	0.06	0.64	26.9	<0.2	<10	70	0.36	0.31	0.33	0.24	42.9	8.5	9
CC114556		0.14	0.004	0.09	0.73	54.1	<0.2	<10	70	0.42	0.40	0.30	0.09	36.4	10.3	7
CC114557		0.12	0.002	0.04	0.63	44.4	<0.2	<10	70	0.32	0.36	0.14	0.26	36.7	9.8	7
CC114558		0.20	0.002	0.04	0.61	29.7	<0.2	<10	60	0.42	0.37	0.12	0.07	44.7	11.1	8
CC114559		0.10	0.003	0.20	0.84	26.5	<0.2	<10	110	0.44	0.32	0.65	0.15	41.8	8.8	8
CC114560		0.12	0.001	0.17	0.73	10.2	<0.2	<10	50	0.25	0.24	0.41	0.09	27.8	2.8	7
CC114561		0.12	0.001	0.02	0.61	9.0	<0.2	<10	70	0.21	0.17	0.14	0.13	34.5	2.5	6
CC114562		0.10	0.001	0.04	1.33	6.6	<0.2	<10	110	0.36	0.22	0.35	0.23	35.1	5.4	18
CC114563		0.12	0.002	0.08	1.00	5.0	<0.2	<10	100	0.19	0.20	0.11	0.14	30.4	2.2	12



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**CERTIFICATE OF ANALYSIS WH11107176**

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
CC114554		1.06	18.0	3.36	3.72	0.06	0.02	0.08	0.027	0.05	16.1	12.9	0.24	557	1.11	0.01
CC114555		0.59	16.4	3.04	2.21	0.06	0.04	0.04	0.025	0.04	22.0	10.4	0.19	335	0.60	0.01
CC114556		0.88	23.8	3.52	2.36	0.06	0.09	0.04	0.033	0.05	19.5	9.3	0.11	340	0.40	0.01
CC114557		0.59	19.9	3.32	2.15	0.06	0.03	0.03	0.029	0.06	19.9	7.5	0.12	348	0.54	0.01
CC114558		0.73	22.8	2.92	2.16	0.07	0.02	0.03	0.024	0.07	22.6	9.2	0.15	286	0.60	0.01
CC114559		0.90	19.7	3.12	2.75	0.06	0.03	0.03	0.025	0.08	21.6	11.1	0.18	384	0.70	0.01
CC114560		0.76	8.5	1.51	4.21	<0.05	<0.02	0.02	0.016	0.04	14.4	3.8	0.08	79	0.67	0.01
CC114561		0.53	6.5	1.08	4.83	<0.05	<0.02	0.02	0.012	0.03	18.1	3.6	0.09	67	1.14	0.01
CC114562		1.08	5.8	2.04	5.11	<0.05	0.04	0.02	0.020	0.05	23.5	18.4	0.36	178	1.08	0.01
CC114563		1.02	5.3	1.13	6.04	<0.05	<0.02	0.02	0.015	0.04	16.7	8.1	0.21	63	1.27	<0.01



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Method Analyte Units LOR	ME-MS41 Nb ppm	ME-MS41 Ni ppm	ME-MS41 P ppm	ME-MS41 Pb ppm	ME-MS41 Rb ppm	ME-MS41 Re ppm	ME-MS41 S %	ME-MS41 Sb ppm	ME-MS41 Sc ppm	ME-MS41 Se ppm	ME-MS41 Sn ppm	ME-MS41 Sr ppm	ME-MS41 Ta ppm	ME-MS41 Te ppm	ME-MS41 Th ppm
CC114554	0.33	17.6	810	125.0	9.9	<0.001	0.05	6.28	1.7	0.5	0.4	8.5	<0.01	0.06	2.4
CC114555	0.29	18.7	550	66.1	5.3	<0.001	0.04	6.49	2.1	0.4	0.2	13.8	<0.01	0.05	7.1
CC114556	0.21	20.9	550	78.5	4.0	<0.001	0.06	15.65	2.3	0.5	0.2	6.8	<0.01	0.05	5.5
CC114557	0.18	18.8	410	44.4	4.3	<0.001	0.05	9.62	1.8	0.4	0.2	11.0	<0.01	0.06	5.5
CC114558	0.33	22.7	470	39.9	7.5	<0.001	0.05	7.69	2.0	0.4	0.2	8.2	<0.01	0.03	8.4
CC114559	0.50	19.3	1060	53.0	9.2	<0.001	0.05	6.13	1.7	0.4	0.2	11.5	<0.01	0.04	4.3
CC114560	0.14	8.6	1340	56.0	6.6	<0.001	0.05	3.35	0.5	0.2	0.5	7.0	<0.01	0.01	0.3
CC114561	0.52	5.9	330	22.9	3.9	<0.001	0.04	1.69	0.5	0.2	0.5	13.4	<0.01	<0.01	<0.2
CC114562	1.15	12.6	220	15.8	10.6	<0.001	0.04	0.81	2.5	0.3	0.6	19.0	<0.01	0.02	5.0
CC114563	0.61	6.1	350	10.8	10.1	<0.001	0.03	0.82	1.3	0.2	0.7	9.9	<0.01	0.01	0.7



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Method Analyte Units LOR	ME-MS41 Ti % 0.005	ME-MS41 Ti ppm 0.02	ME-MS41 U ppm 0.05	ME-MS41 V ppm 1	ME-MS41 W ppm 0.05	ME-MS41 Y ppm 0.05	ME-MS41 Zn ppm 2	ME-MS41 Zr ppm 0.5
CC114554	0.009	0.16	0.80	27	0.19	5.42	296	<0.5
CC114555	0.007	0.09	0.70	14	0.10	5.42	223	1.2
CC114556	<0.005	0.08	0.88	11	0.08	8.00	129	2.3
CC114557	<0.005	0.07	0.64	11	0.07	3.84	100	0.8
CC114558	0.007	0.07	0.91	12	0.08	5.80	99	<0.5
CC114559	0.007	0.12	1.02	15	0.11	7.71	210	<0.5
CC114560	0.006	0.19	0.83	19	0.12	2.99	145	<0.5
CC114561	0.015	0.09	0.35	23	0.15	2.29	49	<0.5
CC114562	0.022	0.11	0.48	38	0.24	4.60	179	1.4
CC114563	0.017	0.13	0.32	36	0.23	2.46	45	<0.5



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