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**YMEP REPORT (21-034)**

describing

**PROSPECTING AND SOIL GEOCHEMICAL SAMPLING**

at the

**SWAN PROPERTY**

Swan 1-24      YF57255 – YF57278

NTS 105N/05

Latitude 63°26'N; Longitude 133°49'W

Field work performed from June 22 to 28, 2021

in the

Mayo Mining District  
Yukon Territory

prepared by

**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**

by

G. Graham, B.Sc.

January 2022

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## INTRODUCTION

The Swan property is located in east-central Yukon and covers a regional silt sample that returned very strongly anomalous values for gold and numerous rare earth elements (REEs). The source of this silt sample has never been found. The property is situated alongside the Tombstone Gold Belt, a 550 km long belt that hosts significant gold occurrences across Yukon and Alaska, including the Fairbanks Gold Mine, the former Brewery Creek Mine, the Eagle Deposit, and the nearby Plateau discovery. The Swan property is wholly owned by Archer, Cathro & Associates (1981) Limited.

This report describes prospecting and soil geochemical sampling conducted from June 22 to June 28, 2021 by Archer Cathro. The author did not participate in the exploration program but interpreted data resulting from this work. The author's Statement of Qualifications is presented in Appendix I, while a Statement of Expenditures is located in Appendix II.

## PROPERTY LOCATION, CLAIM DATA AND ACCESS

The Swan property consists of 24 contiguous mineral claims, which are located on NTS map sheet 105N at latitude 63° 27' north and longitude 133° 46' west (Figure 1). The property covers an area of approximately 580 ha (5.8 km<sup>2</sup>). The claims are registered with the Mayo Mining Recorder in the name of Archer Cathro. 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>
Swan 1-24	YF57255 – YF57278	March 23, 2022

\* Expiry date does not include 2021 work.

The Swan property is located approximately 100 km west-southwest of the town of Mayo and 350 km north of the city of Whitehorse, the nearest major supply centre. The property is not road accessible.

In 2021, access to and from the property was provided by a Cessna Caravan on floats operated by Alkan Air Ltd. of Whitehorse from their seasonal Mayo Float Base. Mayo is located approximately 100 km to the northwest of the Swan property.

The Swan property lies within the traditional territories of the Na-cho Nyak Dun First Nation, which has settled land claim agreements with Canada and Yukon.

## HISTORY AND PREVIOUS WORK

In 1990, the Geological Survey of Canada (GSC) conducted a reconnaissance stream sediment and water geochemical sampling program across NTS map sheet 105N. A total of 783 silt samples were collected, one of which was located on the Swan property. Analytical results from this sample returned 99th percentile values for gold (715 ppb), cerium (260 ppm), europium (3.9 ppm), neodymium (110 ppm), lanthanum (75.8 ppm), lutetium (1.23 ppm) and ytterbium (7.8

FIGURE 1

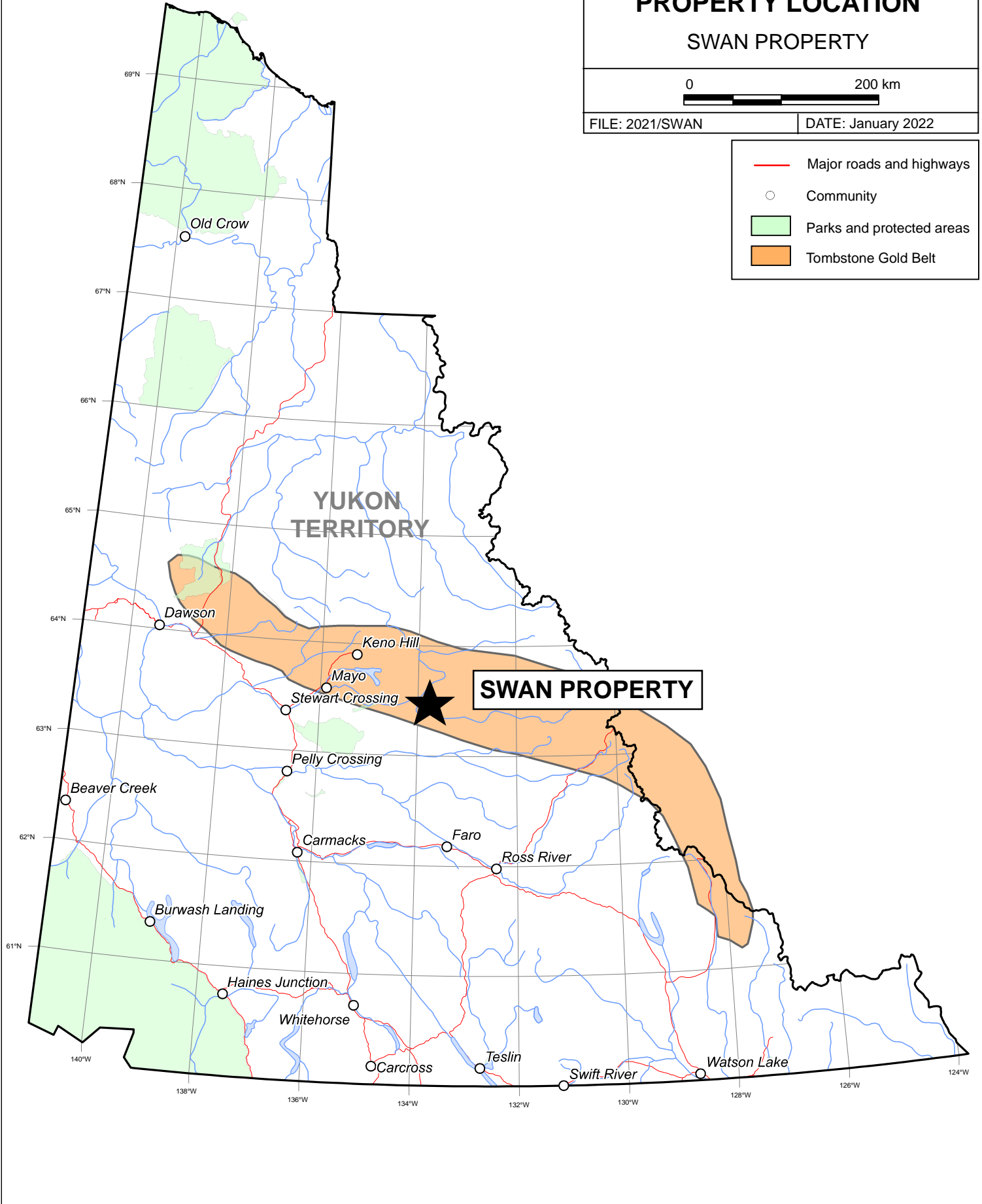
# PROPERTY LOCATION

## SWAN PROPERTY

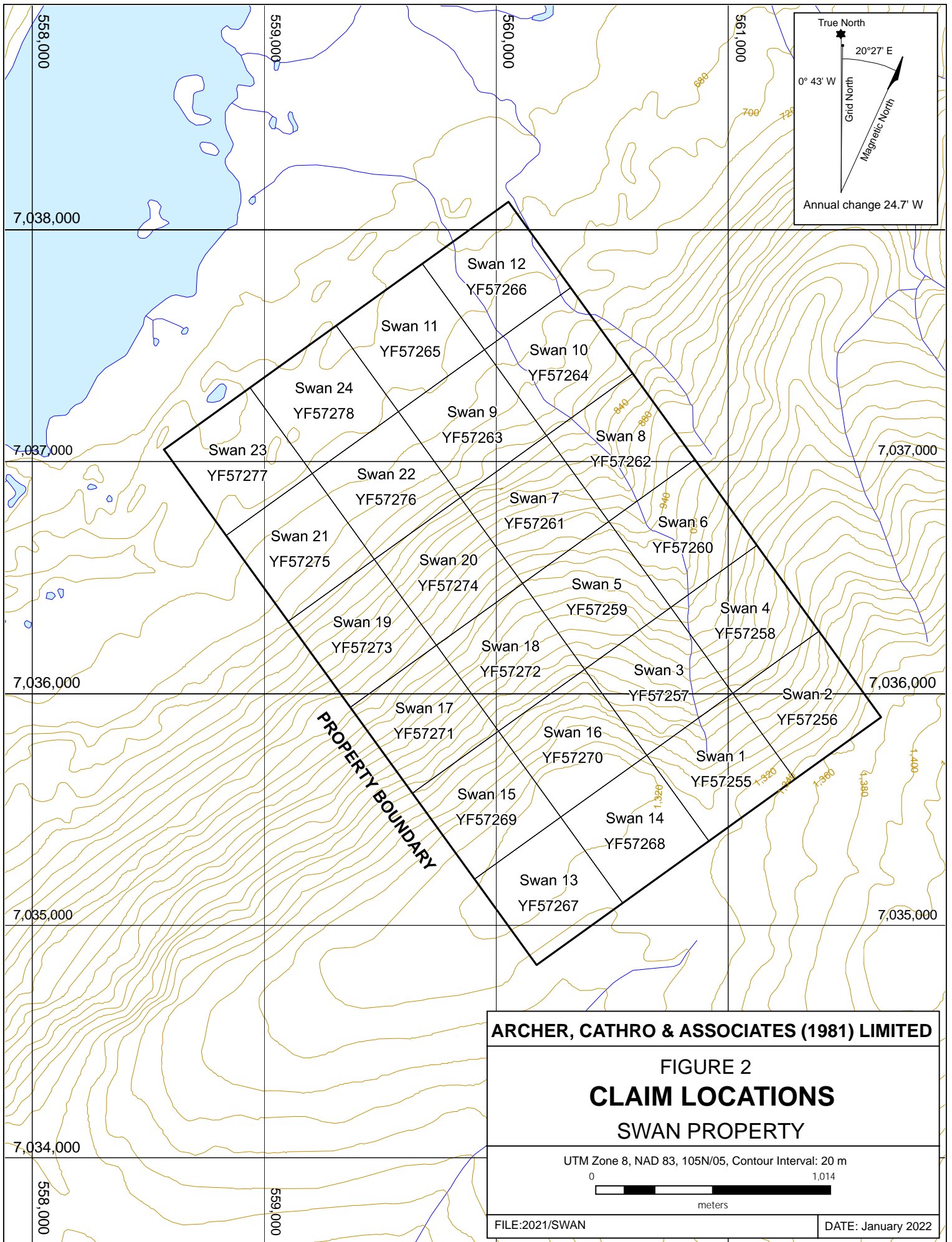
0 200 km

FILE: 2021/SWAN

DATE: January 2022



- Major roads and highways
- Community
- Parks and protected areas
- Tombstone Gold Belt



ppm) (Friske et al., 1991).

In 1998, the GSC reanalysed the samples collected in 1990 to include bismuth and selenium. The sample on the Swan property returned 0.7 ppm selenium and 0.4 ppm bismuth (Friske et al., 1998).

In 2009, the GSC completed an additional reanalysis of the regional stream sediment and water samples collected in 1990 for 35 elements. This analysis did not retest for gold or most REEs, but returned 150 ppm lanthanum (Day et al., 2009).

In 2009, Strategic Metals staked the Rex 1-42 claims, which covered the REE-enriched silt sample collected by the GSC and overlapped the current Swan claims. No work was filed for assessment credit and the claims were allowed to lapse.

In 2017, 18526 Yukon Inc. staked the Swan claims to cover the REE-enriched stream sediment sample. No records of work are available from these claims, and they were allowed to lapse in late 2018.

In early 2021, Archer Cathro staked the Swan 1-24 claims to cover the area around the highly anomalous regional stream sediment sample previously covered by the Rex and Swan claims.

### **GEOMORPHOLOGY AND CLIMATE**

The Swan property is located within the Stewart Plateau of east-central Yukon. It is drained by unnamed tributaries that flow north into Pleasant Creek. Pleasant Creek runs into the Hess River, part of the Stewart River watershed, which flows west before ultimately discharging into the Yukon River.

The property is characterized by a northwest-facing slope that is deeply incised by creeks. Elevations on the property range from approximately 750 to 1400 m above sea level. Most of the property lies below treeline and has been affected by a recent forest fire, which resulted in abundant deadfall and burn scars amongst stands of alder and spruce. Bedrock exposures are present at higher elevations and on escarpments at lower elevations.

Most of central Yukon, including the Swan property, was glaciated during the McConnell glaciation approximately 18,000 years ago (YGS, 2017a). Ice sheets in the area generally migrated in a southwesterly direction, following the Stewart River.

Climate in the Swan area is typical of northern continental regions with long, cold winters, truncated fall and spring seasons and short, mild summers. Although summers are relatively mild snowfall can occur in any month.

## REGIONAL GEOLOGY

The Swan property lies within the north-central part of Selwyn Basin (Figure 3), a predominantly off-shelf metasedimentary and metavolcanic sequence that accumulated along the Laurentian continental margin during Neoproterozoic to Paleozoic time. The basin is bound to the northeast by the Mackenzie Platform, a carbonate platform that formed the near-shore facies of Laurentia (Colpron and Nelson, 2011).

In 1997, the GSC conducted a mapping program in the Lansing map area (NTS map sheet 105N) which augmented previous geological mapping (Roots, 1995). In 2003, the GSC published a compiled 1:250,000 scale bedrock geology map of NTS map sheet 105N (Roots, 2003). Gordey and Makepeace (2003) later completed a Yukon-wide geological compilation, which updated the lithological unit names in the Mayo district. Geological unit names and geological maps were most recently modified in 2021 by the YGS (YGS, 2021). Lithological units occurring near the Swan property are described in Table I, while the regional geology is shown in Figure 4.

**Table I– Lithological Units (after YGS, 2021)**

<b>Map Suite</b>	<b>Age</b>	<b>Map Unit</b>	<b>Description</b>
Mayo Suite	Late Cretaceous	mKgM	Massive to foliated plutonic rocks of intermediate composition. Variable in texture, hornblende > biotite (± clinopyroxene) quartz monzonite or monzodiorite; granodiorite and quartz diorite; late-stage sub-alkaline kersantite or spessartite to alkali minette lamprophyres.
Duo Lake/Elmer Creek - Selwyn	Ordovician to lower Devonian	ODR1	Black, gun-blue, or silvery white weathering black graptolitic shale and black chert; resistant grey weathering, thin to medium-bedded, light to grey black, greenish grey or turquoise chert; minor argillaceous limestone.
Rabbitkettle Formation	Upper Cambrian and Lower Ordovician	COR1	Thin-bedded, wavy banded, silty limestone and grey lustrous calcareous phyllite, limestone intraclastic breccia and conglomerate; massive to laminated, grey quartzose siltstone and chert and rare black slate; local mafic flows, breccia and tuff.
Dempster Volcanics	Cambrian to Silurian	CSM3	Resistant dark greenish grey weathering mafic volcanic flows, tuff and hyaloclastic.
Hyland Group	Neoproterozoic	PCH6	Thin to thick bedded, brown to pale green shale, fine to coarse grained quartz-rich sandstone, grit, and quartz pebble conglomerate; minor argillaceous limestone;



FIGURE 3

**TECTONIC SETTING**

SWAN PROPERTY

FILE: P:/2021/SWAN

DATE: JANUARY 2022

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

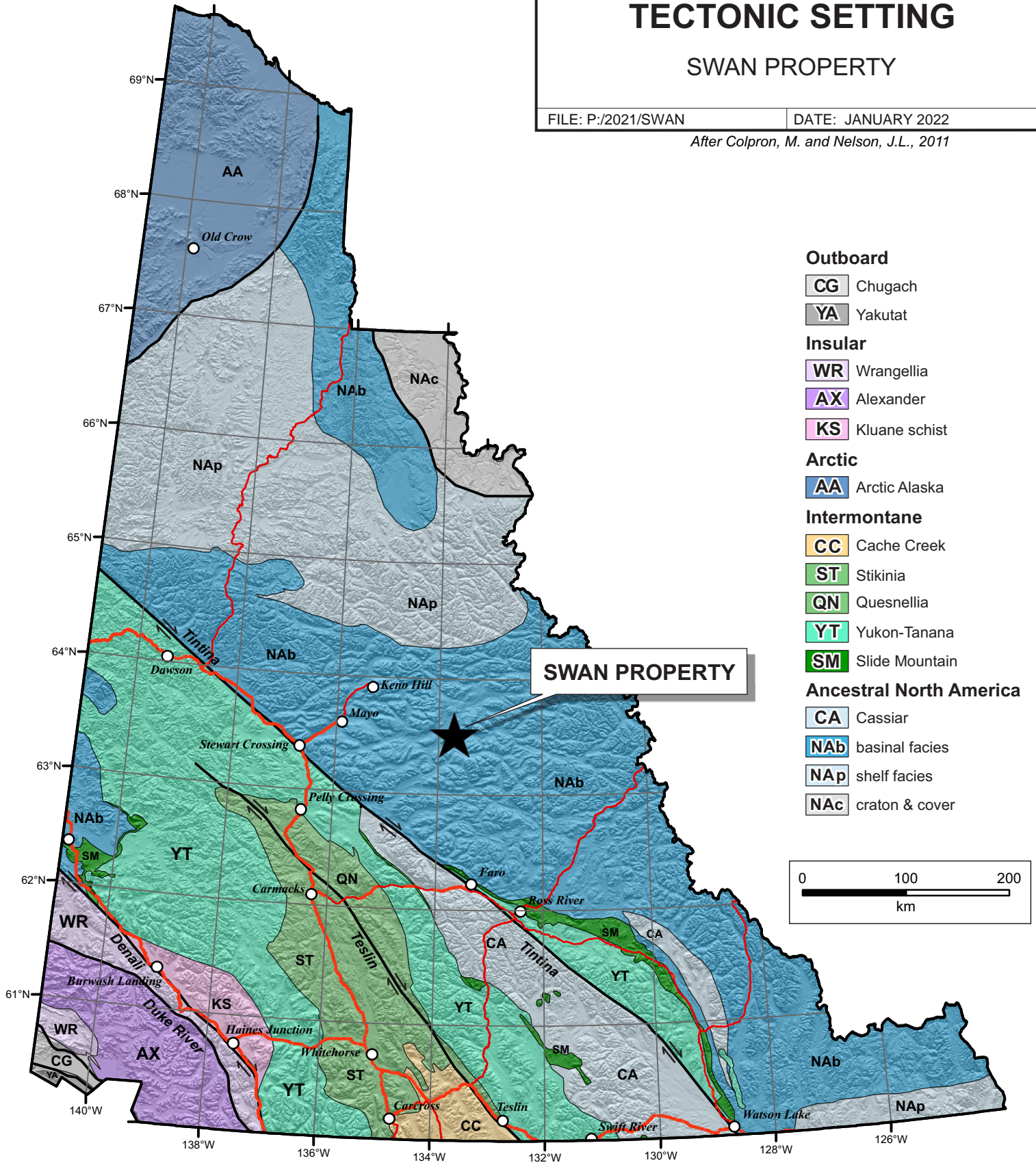


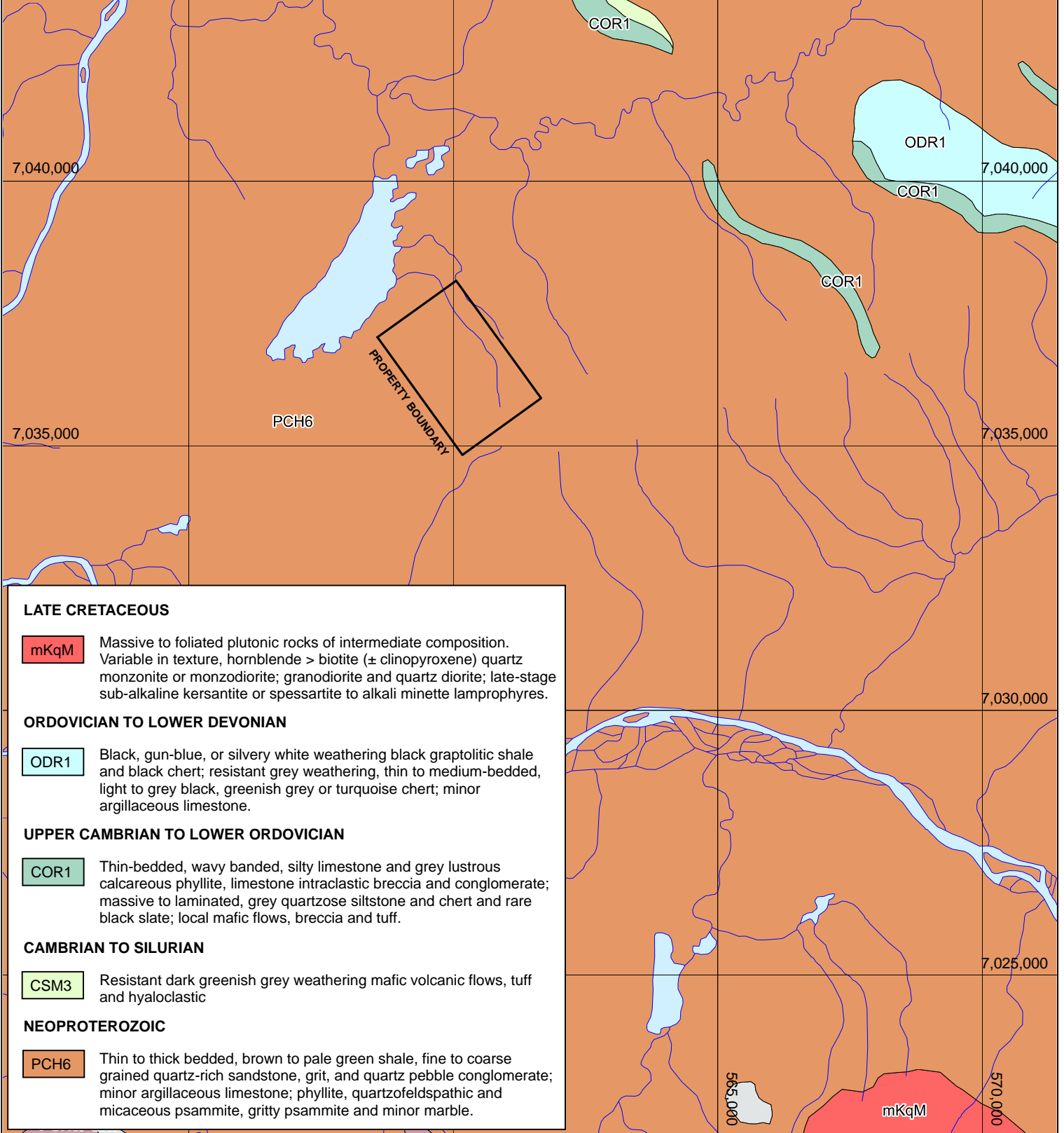
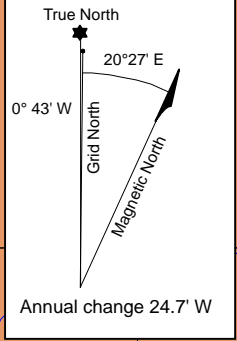
FIGURE 4  
**REGIONAL GEOLOGY**  
 SWAN PROPERTY

UTM Zone 8, NAD 83, 105N/05, Contour Interval: 20 m



FILE:2021/SWAN

DATE: January 2022



**LATE CRETACEOUS**

**mKqM** Massive to foliated plutonic rocks of intermediate composition. Variable in texture, hornblende > biotite (± clinopyroxene) quartz monzonite or monzodiorite; granodiorite and quartz diorite; late-stage sub-alkaline kersantite or spessartite to alkali minette lamprophyres.

**ORDOVICIAN TO LOWER DEVONIAN**

**ODR1** Black, gun-blue, or silvery white weathering black graptolitic shale and black chert; resistant grey weathering, thin to medium-bedded, light to grey black, greenish grey or turquoise chert; minor argillaceous limestone.

**UPPER CAMBRIAN TO LOWER ORDOVICIAN**

**COR1** Thin-bedded, wavy banded, silty limestone and grey lustrous calcareous phyllite, limestone intraclastic breccia and conglomerate; massive to laminated, grey quartzose siltstone and chert and rare black slate; local mafic flows, breccia and tuff.

**CAMBRIAN TO SILURIAN**

**CSM3** Resistant dark greenish grey weathering mafic volcanic flows, tuff and hyaloclastic

**NEOPROTEROZOIC**

**PCH6** 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.

			phyllite, quartzo-feldspathic and micaceous psammite, gritty psammite and minor marble <b>(Yusezyu Fm)</b>
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The region surrounding the Swan property is dominated by the Hyland Group metasedimentary rocks. To the north and east of the property, this basement assemblage is overlain by unconformable sequences of metasiliciclastic and volcanic rocks belonging to the Dempster Volcanics, Rabbitkettle Formation, Duo Lake Formation. South of the property, the Hyland Group is intruded by monzonite to monzodiorite plug of the mid-Cretaceous Mayo Suite.

The highly deformed metasedimentary is displaced and deformed by the Robert Service thrust fault in the south and the Tombstone thrust fault, located 15 km to the north of the Swan property (Roots, 2003). The Robert Service thrust underwent at least 150 km of northerly displacement, placing Hyland Group rocks structurally above younger portions of the Selwyn basin (Roots, 1995). Both thrust faults were active from Jurassic to Cretaceous as part of a collision-related deformation regime related to large-scale plate convergence (Mair et al., 2006).

### **PROPERTY GEOLOGY**

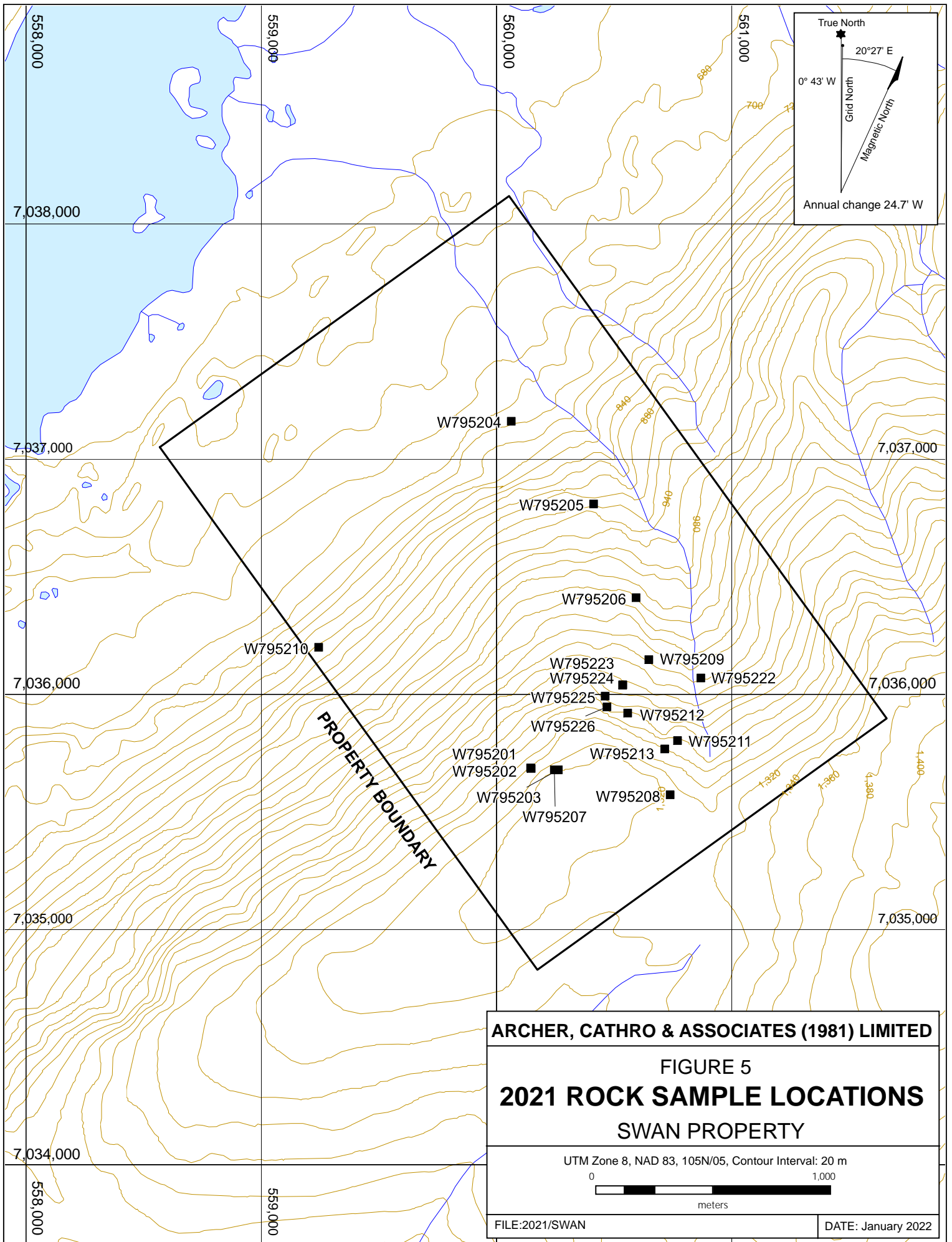
Detailed geology is lacking in the area of the Swan property. All rocks on the property are presently interpreted to belonging to the Hyland Group, comprised of mainly sandstone, grit, psammite and conglomerate with minor phyllite and shale. Work by Trailbreaker Resources Ltd. (formerly Goldstrike Resources Ltd.) has delineated a previously unidentified intrusive body just to the southwest of the property. This pluton is likely part of the mid-Cretaceous Mayo suite.

### **MINERALIZATION**

Prior to 2021, only two exploration programs had been completed on the Swan property; however, no records or data from this work are available. In 2021, Archer Cathro collected a total of 18 rock samples from outcrops, small hand pits and from float. The locations of these rock samples are located on Figure 5. Rock Sample Descriptions and Certificates of Analysis for the 2021 samples appear in Appendix III and IV, respectively.

All rock sample sites were marked with coloured flagging tape labelled with the sample number and recorded using a handheld GPS unit. Rock sample preparation and multi-element analyses were carried out at ALS Minerals laboratories in Whitehorse, YT where they were crushed to 70% passing 2 mm before a 250g split was pulverized to 85% passing 70 microns. Rock sample pulps were then sent to ALS Minerals in North Vancouver, BC where splits of pulverized fractions were then dissolved using a four-acid digestion and analyzed for 48 elements using inductively coupled plasma combined with mass spectroscopy (ME-MS61). An additional 30 g charge was further analyzed for gold by fire assay followed by inductively coupled plasma-atomic emissions spectroscopy (Au-ICP21).

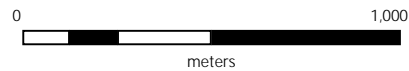




**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**

**FIGURE 5  
2021 ROCK SAMPLE LOCATIONS  
SWAN PROPERTY**

UTM Zone 8, NAD 83, 105N/05, Contour Interval: 20 m



FILE:2021/SWAN

DATE: January 2022

All rock samples collected from the property were comprised of schist or quartzite with varying degrees oxidation. Mineralization in the form of minor disseminated pyrite was locally observed. The best precious metal results came from the south-central part of the property. A composite sample of rusty orange-brown oxidized, green-brown weathering schist taken from outcrop returned 0.03 g/t gold and 0.03 g/t silver. The best REE results came from a rock sample collected from an outcrop in the southeastern part of the property, which yielded elevated cerium (122.5 ppm), lanthanum (58.5 ppm) and yttrium (7 ppm) values.

### **SOIL GEOCHEMISTRY**

Historical exploration programs conducted in the area of the Swan property may have included soil geochemical sampling; however, records and data from these work programs are not available. As such, there is no recorded historical soil geochemical data on the Swan property.

In 2021, Archer Cathro collected a total of 245 grid soil samples from the central and southern parts of the property. Soil sample locations are plotted on Figure 6, while results for gold, silver, copper, arsenic and lead are illustrated thematically on Figure 7 to Figure 11, respectively. Certificates of Analysis for the 2021 samples are provided in Appendix IV.

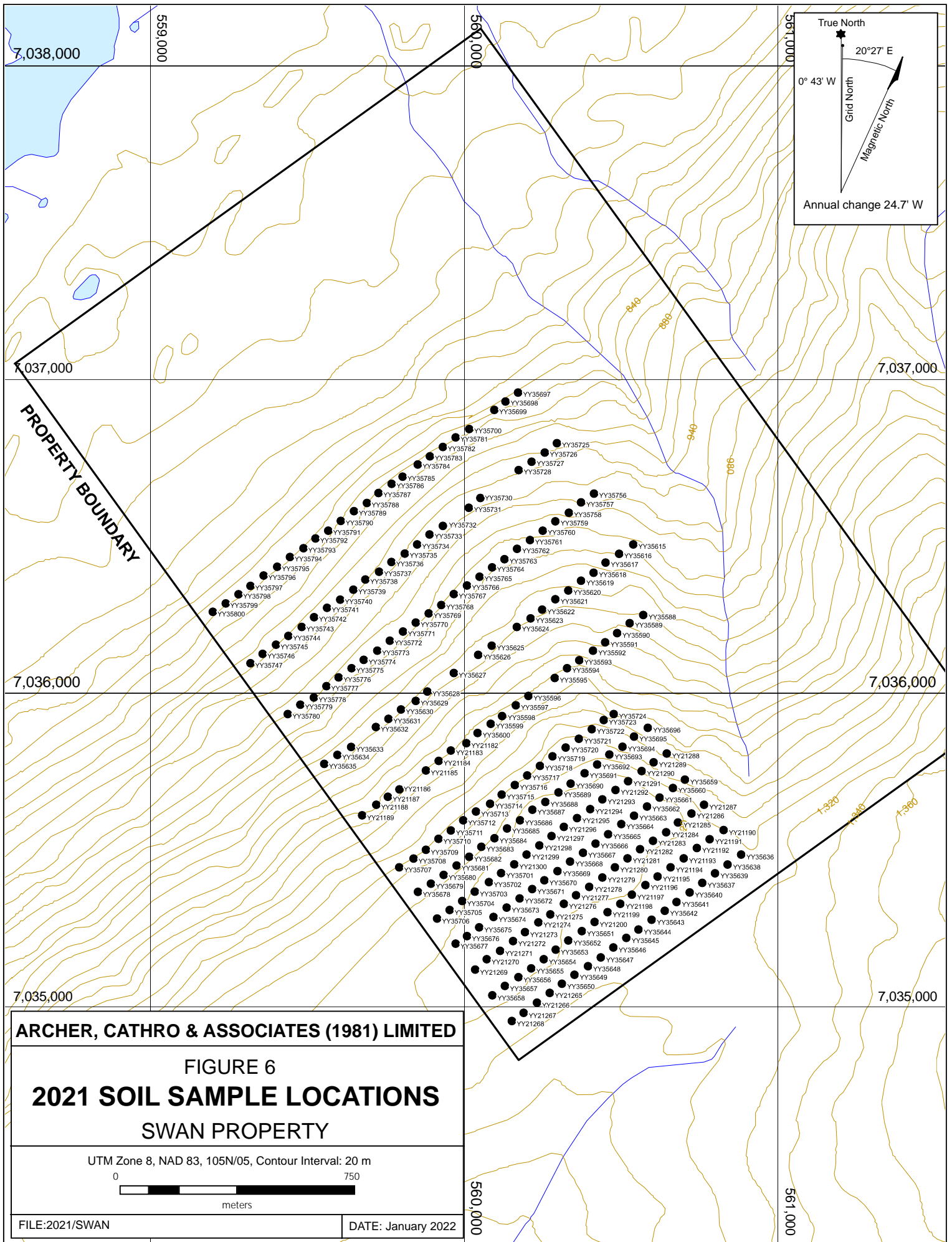
Soil sample locations were recorded using a hand-held GPS unit. Sample sites are marked by aluminium tags inscribed with the sample numbers and affixed to 0.5 m wooden lath that were driven into the ground. Soil samples were collected from 50 and 100 m spaced lines at 50 m sample spacings from 20 to 80 cm deep holes, which were dug by a handheld auger. The soil samples were sent to ALS Minerals in Whitehorse, where they were dried and screened to -180 microns. The fine fractions were then shipped to ALS Minerals in North Vancouver where they were analyzed for 48 elements, plus an additional 12 REEs using a four-acid digestion followed by inductively coupled plasma combined with mass spectroscopy (ME-MS61r). An additional 30 g charge was further analyzed for gold by fire assay with inductively coupled plasma and atomic emission spectroscopy finish (Au-ICP21).

Anomalous thresholds and peak values for all soil samples collected to date on the property are listed in Table II.

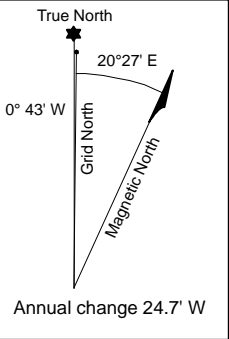
**Table II – Soil Geochemical Thresholds**

Element	Anomalous Thresholds				2021 Peak
	Weak	Moderate	Strong	Very Strong	
Gold (ppb)	$\geq 5 < 10$	$\geq 10 < 20$	$\geq 20$	$\geq 100$	93
Silver (ppm)	$\geq 0 < 0.2$	$\geq 0.2 < 0.5$	$\geq 0.5 < 1$	$\geq 1$	1.17
Copper (ppm)	$\geq 0 < 20$	$\geq 20 < 50$	$\geq 100$	$\geq 200$	99.8
Arsenic (ppm)	$\geq 10 < 50$	$\geq 50 < 100$	$\geq 100$	$\geq 200$	68.8
Lead (ppm)	$\geq 0 < 20$	$\geq 20 < 50$	$\geq 100$	$\geq 200$	62

Precious metal analysis from soil geochemical samples returned a strongly anomalous spot values for gold (up to 93 ppb) in the central part of the property, spot high values for silver (up to



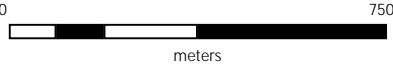
**PROPERTY BOUNDARY**



**ARCHER, CATHRO & ASSOCIATES (1981) LIMITED**

**FIGURE 6  
 2021 SOIL SAMPLE LOCATIONS  
 SWAN PROPERTY**

UTM Zone 8, NAD 83, 105N/05, Contour Interval: 20 m

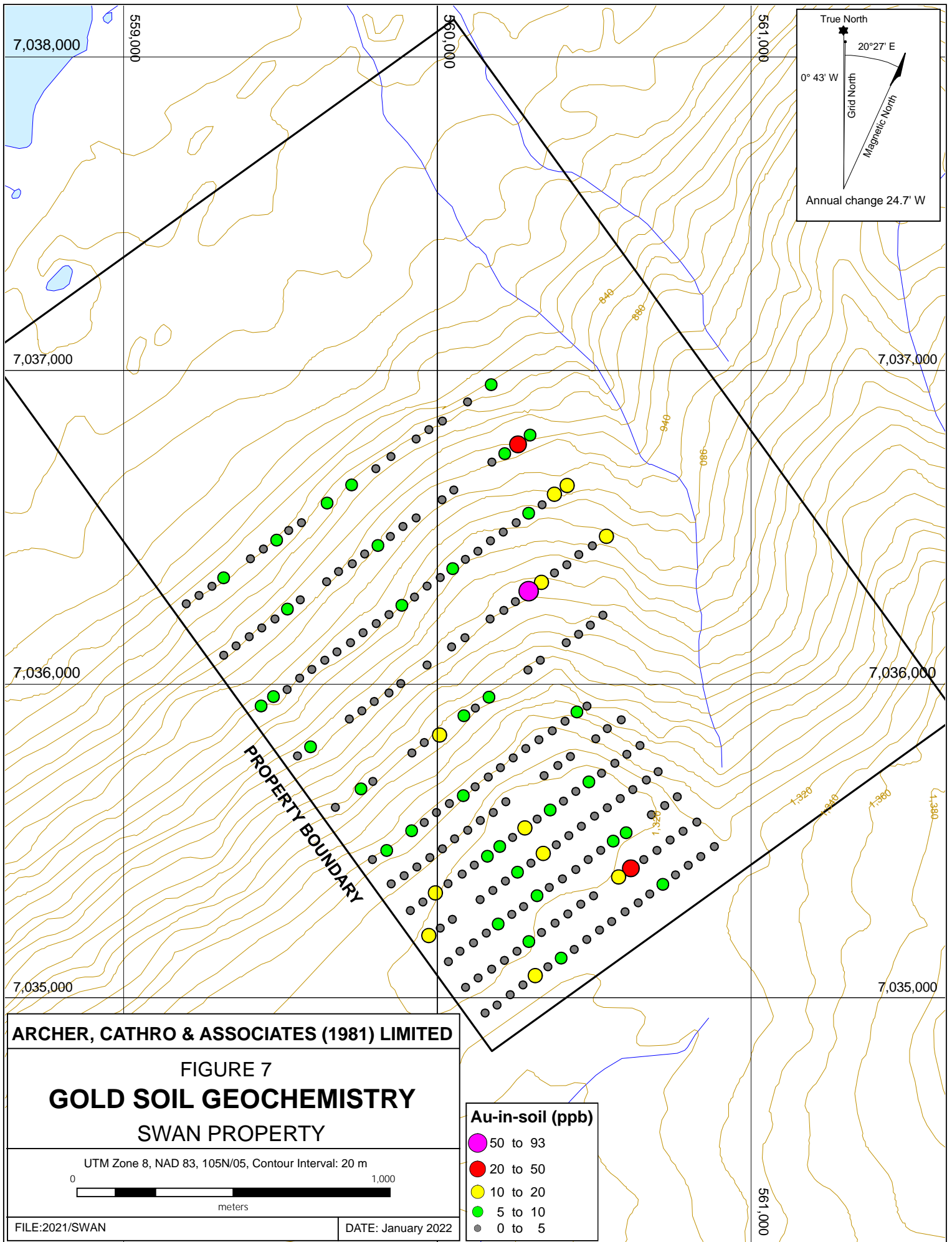


FILE:2021/SWAN

DATE: January 2022

560,000

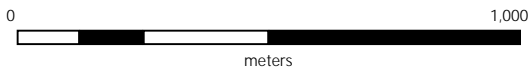
561,000



ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

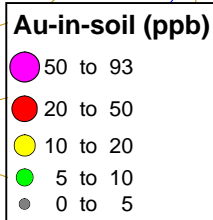
FIGURE 7  
**GOLD SOIL GEOCHEMISTRY**  
 SWAN PROPERTY

UTM Zone 8, NAD 83, 105N/05, Contour Interval: 20 m

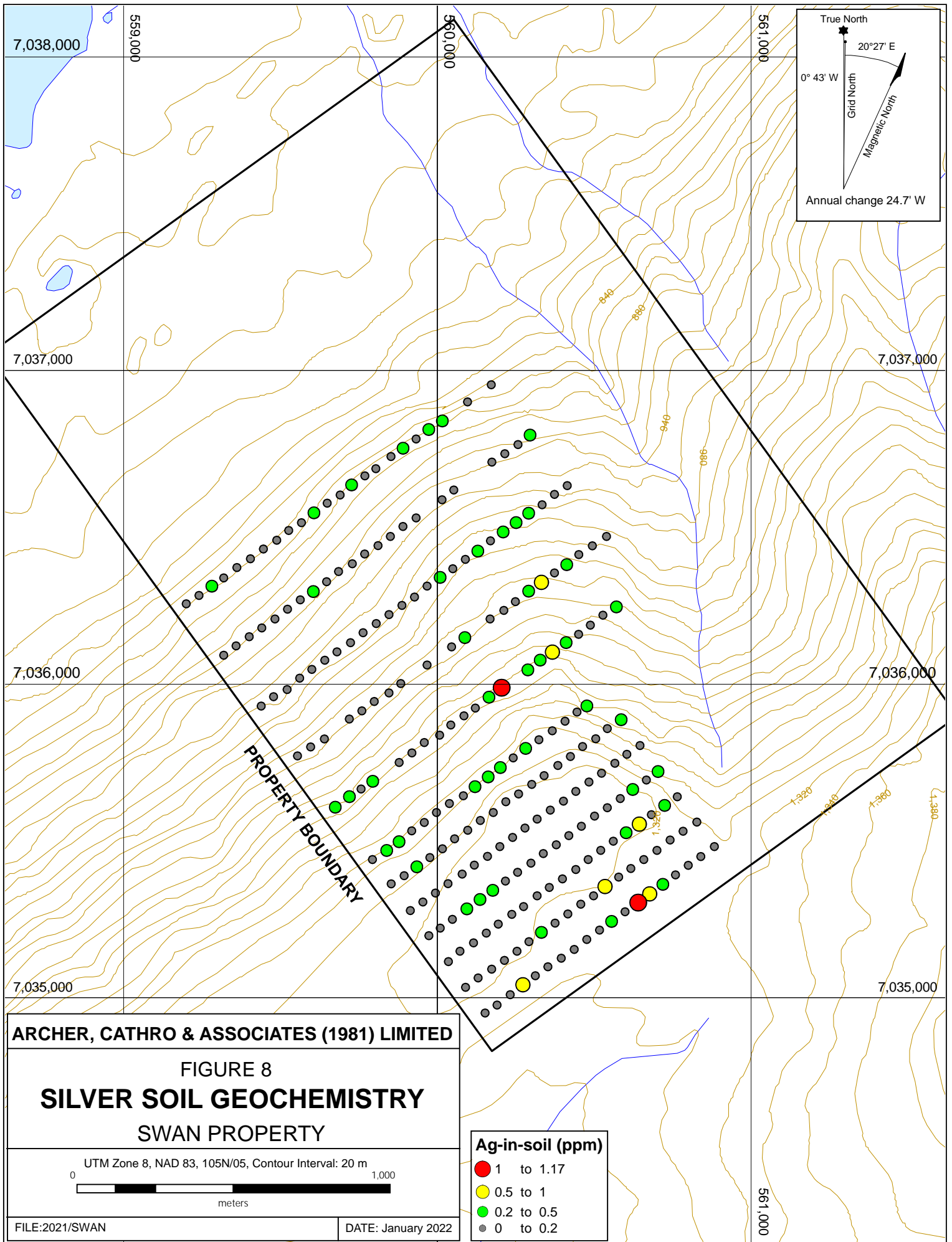


FILE:2021/SWAN

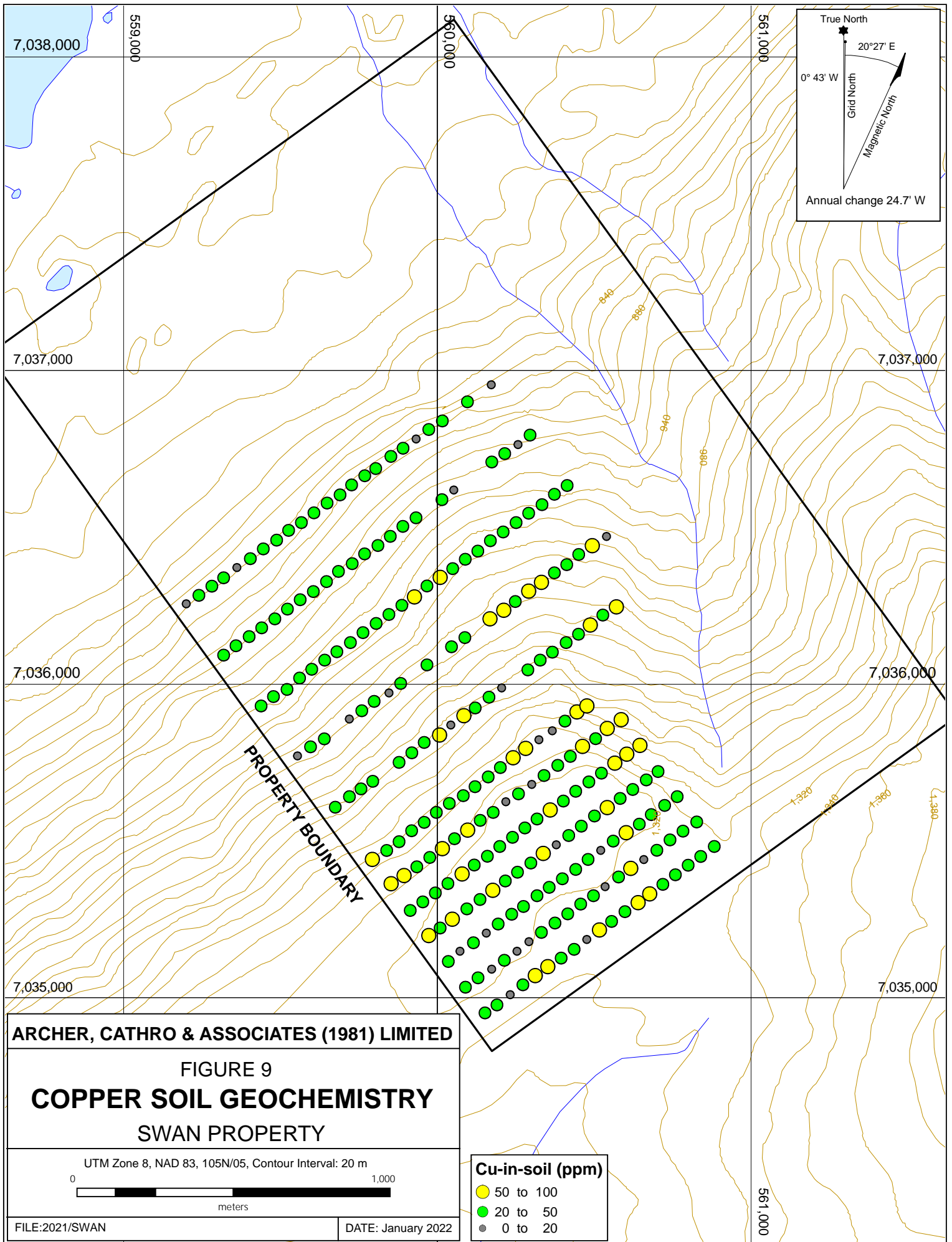
DATE: January 2022











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FIGURE 9  
**COPPER SOIL GEOCHEMISTRY**  
 SWAN PROPERTY

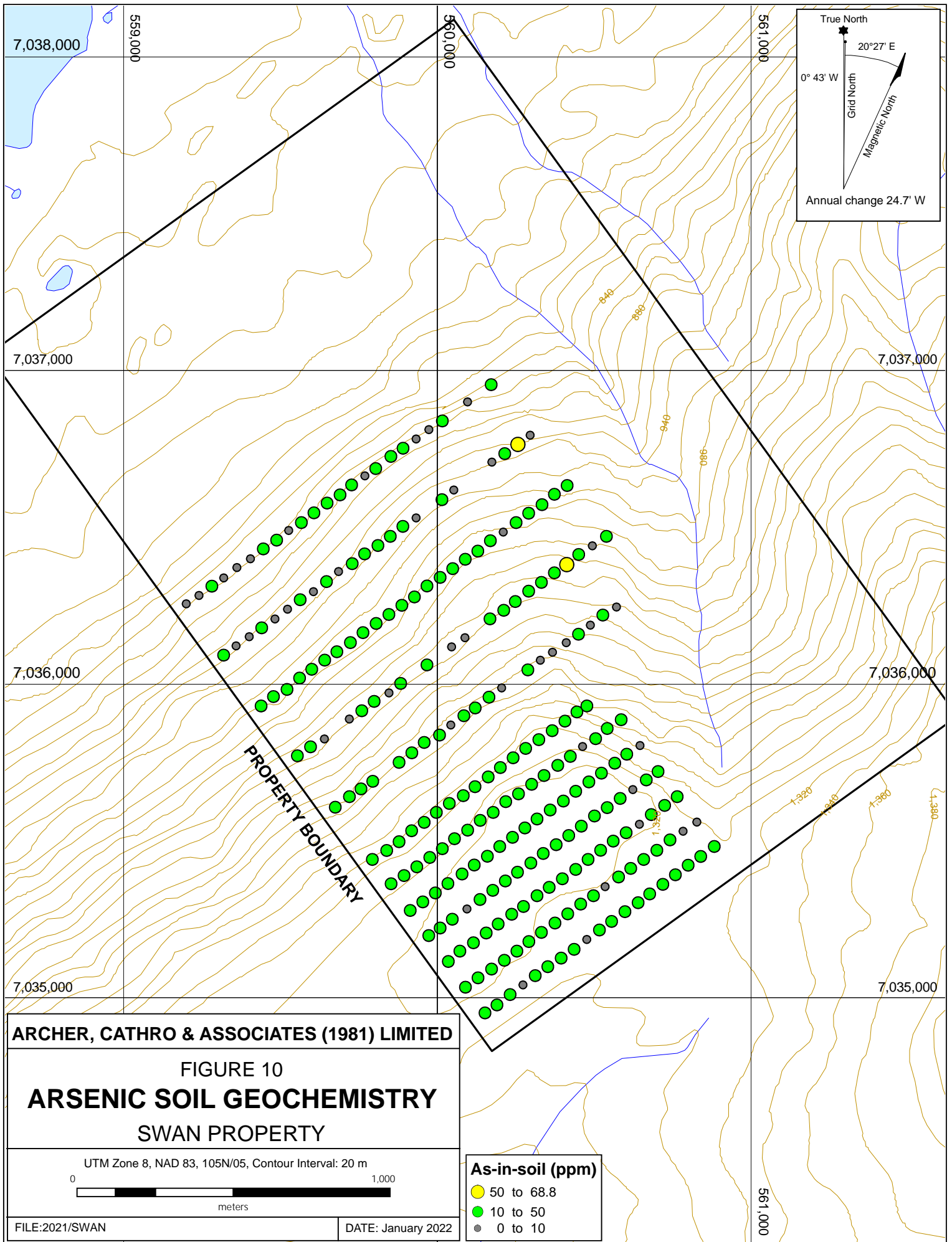
UTM Zone 8, NAD 83, 105N/05, Contour Interval: 20 m  
 0 1,000  
 meters

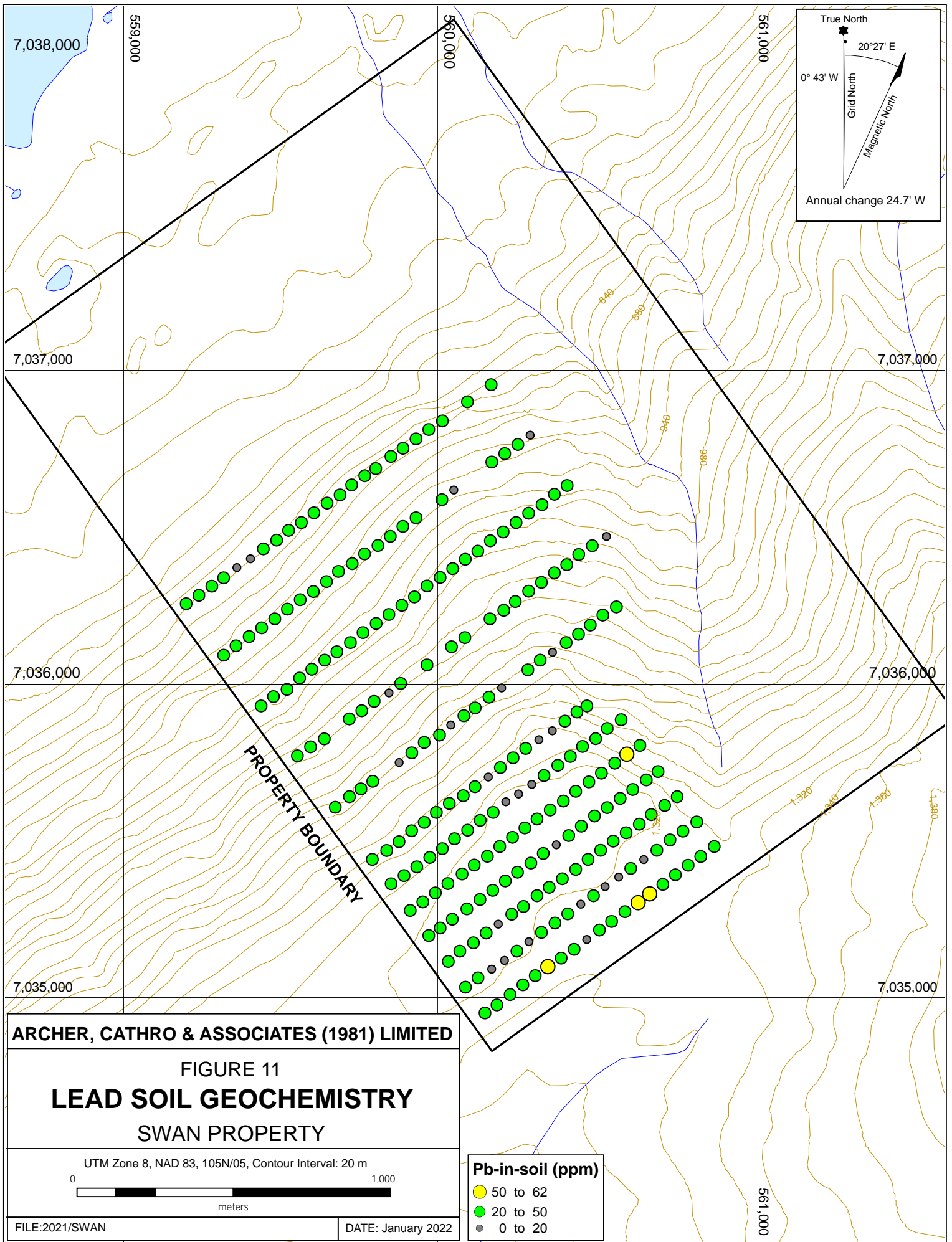
**Cu-in-soil (ppm)**  
 ● 50 to 100  
 ● 20 to 50  
 ● 0 to 20

FILE:2021/SWAN

DATE: January 2022

561,000





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FIGURE 11  
**LEAD SOIL GEOCHEMISTRY**  
 SWAN PROPERTY

UTM Zone 8, NAD 83, 105N/05, Contour Interval: 20 m  
 0 1,000  
 meters

**Pb-in-soil (ppm)**  
 ● 50 to 62  
 ● 20 to 50  
 ● 0 to 20

FILE:2021/SWAN

DATE: January 2022

1.17 ppm) in the southern part of the property and widespread, weakly anomalous values for copper (up to 100 ppm).

REE analysis of the soil samples returned elevated values that were widely dispersed across the property. Light REE (LREE) analysis of the soil samples elevated values for lanthanum (up to 104 ppm), cerium (up to 183 ppm), praseodymium (up to 21.6 ppm), neodymium (up to 78.4 ppm), samarium (up to 13.45 ppm), europium (up to 2.38), and gadolinium (up to 8.53 ppm). Heavy REE (HREE) yielded elevated values for yttrium (up to 39.9 ppm), terbium (up to 1.18 ppm), dysprosium (up to 5.87 ppm), holmium (up to 1.01 ppm), erbium (up to 2.48 ppm), thulium (up to 0.3 ppm), ytterbium (up to 1.65 ppm), and lutetium (up to 0.28 ppm).

### **DISCUSSION AND CONCLUSIONS**

The Swan property is situated within the Tombstone Gold Belt of central Yukon, which contains numerous significant gold occurrences, but has been largely underexplored in regard to the potential for significant REE deposits.

Soil sampling on the Swan property in 2021 generally returned background to weakly anomalous values for precious metals with spot high values for gold and silver in the central and southern parts of the property, and highly elevated REE values in the central and southern parts of the property.

REE results from soil sampling are comparable to the strongly elevated values identified on the Swan property during regional stream sediment sampling, which is encouraging. Rock sampling yielded low values for REEs; however, rock samples were not analysed using REE-specific analytical techniques. Without this REE-specific analysis, four-acid digestion may not fully digest the REEs, causing results to appear subdued. Due to the uncertainty around results from rock analysis, the source of elevated REE values from soil and silt samples remains unknown. It is possible that REE mineralization in the area of the Swan property is related to an unmapped McQuesten Suite intrusion or the REE-enriched Marmot Volcanics of the Earn Group. On the Plateau property, near the southern border of the Swan property, an intrusion belonging to the McQuesten Suite has been mapped that does not appear on regional geological maps.

The Swan property also shares a similar geological setting to the adjacent Plateau property, which hosts gold-bearing orogenic-style mineralization that occurs in north to northwesterly-trending shear zones cutting folded clastic sediments. Both properties are underlain by Hyland Group siliciclastic rocks with nearby Mayo Suite intrusions. Localized diamond drilling along shear zones on the Plateau property has identified gold-bearing quartz veins, with results up to 6.05 g/t over 45.5 m (Globe News Wire, 2017).

Based on results from the 2021 exploration program, additional work on the Swan property is warranted, but on a lower priority basis. Future work on the property should include, but not be limited to:

- 1) Reanalysis of rock samples collected in 2021 using an analytical technique that adequately captures REE elements. This sampling should be prioritized in order to re-evaluate the potential for an underlying REE deposit before other work is conducted.
- 2) Prospecting and hand pitting in the area of elevated soil geochemical values in order to try and identify the source of REE-enriched samples.
- 3) Detailed geological mapping in order to identify the potential source of enriched REE values and determine if there is potential for unmapped McQuesten Suite or Marmot Volcanics (Earn Group) rocks on the property.
- 4) Soil geochemical sampling should be completed to provide additional coverage in the eastern part of the property.

Respectfully submitted,

ARCHER, CATHRO & ASSOCIATES (1981) LIMITED

A handwritten signature in black ink, appearing to read "Gentia Graham". The signature is written in a cursive, flowing style.

G. Graham, B.Sc.

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 2021 Yukon Digital Bedrock Geology. [ArcGIS - Bedrock geology map](#)

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

## **STATEMENT OF QUALIFICATIONS**

I, Gentianne Graham, geologist, with business addresses in Whitehorse, Yukon Territory and residential address in Whitehorse Yukon Territory, do hereby certify that:

1. I graduated from the University of British Columbia in 2020 with a B.Sc. in Earth and Environmental Sciences.
2. From June 2021 to present, I have been actively engaged in mineral exploration in the Yukon Territory and British Columbia.
3. I have not personally participated in the fieldwork reported herein, but have interpreted all data resulting from this work.

G. Graham, B.Sc.

A handwritten signature in black ink that reads "Gentianne Graham". The signature is written in a cursive, flowing style.



**APPENDIX II**  
**STATEMENT OF EXPENDITURES**

Statement of Expenditures not compiled at time of YMEP Filing.

**APPENDIX III**  
**ROCK SAMPLE DESCRIPTIONS**

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**Rock Sample Descriptions**Property: Swan

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Sample Number: W795201 Date Collected: 23/06/2021 UTM: 560148 mE Nad83, Zone 8  
Elevation: 1279 m Sampler: Unknown Person UTM: 7035685 mN

Comments: medium grey weathered, light greenish grey fresh fine grained muscovite-chlorite schist in outcrop. Minor fine grained pyrite ~0.15-0.25% within as well as oxidized pocks of earthy orange brown throughout

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Sample Number: W795202 Date Collected: 23/06/2021 UTM: 560145 mE Nad83, Zone 8  
Elevation: 1278 m Sampler: Unknown Person UTM: 7035688 mN

Comments: oxidized bull quartz vein in contact with light greenish grey schist in outcrop. Quartz has minor vugs with abundant earthy yellowish beige- orange brown oxide pocks throughout. Quartz is coarse grained bull white, ~0.40m wide

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Sample Number: W795203 Date Collected: 23/06/2021 UTM: 560263 mE Nad83, Zone 8  
Elevation: 1317 m Sampler: Unknown Person UTM: 7035679 mN

Comments: oxidized and vuggy ~5-7cm wide quartz vein pulled from within possible fault zone in contact with almost medium grey graphitic schist. Vugs are patchy and irregular, mm- 1cm size with earthy yellowish orange oxide within some vugs. Fault zone appears to be ~15cm wide.

---

Sample Number: W795204 Date Collected: 24/06/2021 UTM: 560063 mE Nad83, Zone 8  
Elevation: 754 m Sampler: Unknown Person UTM: 7037161 mN

Comments: light grey weathered light tan-grey fresh psammitic schist/ gritty quartzite? In subcrop. Oxidized coarse grained bull quartz veins cutting through foliation

---

Sample Number: W795205 Date Collected: 24/06/2021 UTM: 560413 mE Nad83, Zone 8  
Elevation: 917 m Sampler: Unknown Person UTM: 7036810 mN

Comments: subcrop of medium grey- greenish grey weathered medium green- greenish grey fresh chloritic schist boulders in rubble field. Thin 1-3mm wide coarse grained quartz veinlets running through with thin reddish orange brown oxidation rim around them. Mostly various kinds of schist and quartzite with abundant coarse grained bull white quartz veins rubble in boulder field.

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**Rock Sample Descriptions**Property: Swan

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Sample Number: W795206 Date Collected: 24/06/2021 UTM: 560593 mE Nad83, Zone 8  
Elevation: 1038 m Sampler: Unknown Person UTM: 7036411 mN

Comments: light orange- reddish brown weathered, light silvery bluish grey fine grained schist with minor fine grained silvery pyrite cubes disseminated throughout. Grab sample from slump/ slide boulder pile.

---

Sample Number: W795207 Date Collected: 25/06/2021 UTM: 560246 mE Nad83, Zone 8  
Elevation: 1312 m Sampler: Unknown Person UTM: 7035679 mN

Comments: medium- dark purplish grey-brown weathered, medium grey- greenish grey fresh schist. Appears to be darker coloured/ weathered different than schist units on either side and along a fault plane. 25cm chip sample across the more oxidized section was done. Schist has minor pocks of earthy oxide within but no major differences with schist units on either side.

---

Sample Number: W795208 Date Collected: 25/06/2021 UTM: 560738 mE Nad83, Zone 8  
Elevation: 1308 m Sampler: Unknown Person UTM: 7035573 mN

Comments: heavily oxidized quartz-quartzite breccia found as subcrop. Matrix is orange to reddish brown with minor chalky white- light yellowish grey oxide, minor vugs and alteration around clast grains. Quartzite clasts are light- medium grey, fine grained, and up to 10cm in size.

---

Sample Number: W795209 Date Collected: 25/06/2021 UTM: 560648 mE Nad83, Zone 8  
Elevation: 1111 m Sampler: Unknown Person UTM: 7036148 mN

Comments: fault gouge schist in subcrop, heavily fractured, almost graphitic schist with abundant light yellow-green to brown clay/ gouge between small schist fractures.

---

Sample Number: W795210 Date Collected: 26/06/2021 UTM: 559244 mE Nad83, Zone 8  
Elevation: 834 m Sampler: Unknown Person UTM: 7036200 mN

Comments: subcrop of medium grey weathered, medium greenish grey fresh gritty quartzite with mm size smokey- medium grey quartz grains.

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Sample Number: W795211 Date Collected: 26/06/2021 UTM: 560770 mE Nad83, Zone 8  
Elevation: 1249 m Sampler: Unknown Person UTM: 7035804 mN

Comments: sample of silvery grey, almost graphitic, schist found in shear zone in subcrop. Minor oxidation and heavily fractured/ weathered.

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**Rock Sample Descriptions**

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Property: Swan

Sample Number: W795212      Date Collected: 26/06/2021      UTM: 560558 mE      Nad83, Zone 8  
Elevation: 1216 m      Sampler: Unknown Person      UTM: 7035921 mN

Comments: heavily oxidized chlorite schist and bull white quartz vein with minor fine grained silvery pyrite in quartz on schist contact. Pulled out of outcrop at very steep, almost slide/ slump of heavily fractured and weathered schist. Possible fault/ fold area? Schist is quite altered on the weathered surface with medium rusty red-brown oxidation and almost graphitic silvery grey sections of possibly different lithological unit in contact with quartz vein.

---

Sample Number: W795213      Date Collected: 26/06/2021      UTM: 560715 mE      Nad83, Zone 8  
Elevation: 643 m      Sampler: Unknown Person      UTM: 7035768 mN

Comments: subcrop of medium purplish grey-brown quartzite with minor coarse grained euhedral pyrite cubes and pocks of earthy reddish orange brown oxide throughout.

---

Sample Number: W795222      Date Collected: 01/07/2021      UTM: 560869 mE      Nad83, Zone 8  
Elevation: 1128 m      Sampler: Unknown Person      UTM: 7036070 mN

Comments: small subcrop of silvery grey fine grained schist in possible shear zone, small peaks on scintillometer 350-390 vs background schist and psammite 260-300. schist is very fractured, weathered and crumbles easily

---

Sample Number: W795223      Date Collected: 01/07/2021      UTM: 560537 mE      Nad83, Zone 8  
Elevation: 1159 m      Sampler: Unknown Person      UTM: 7036039 mN

Comments: in bowl of slide area, subcrop of heavily sheared/ folded and oxidized schist. Weathers medium rusty red-brown to orange brown and is light- medium silvery grey, fine grained fresh. Schist is somewhat greasy and hard to break off the subcrop face without crumbling into tiny pieces. Heavily oxidized and weathered. High peaks on the scintillometer >600

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Sample Number: W795224      Date Collected: 01/07/2021      UTM: 560537 mE      Nad83, Zone 8  
Elevation: 1160 m      Sampler: Unknown Person      UTM: 7036041 mN

Comments: oxidized quartz vein folded with schist in same section as W795223. quartz weathers rust brown, is light pinkish-yellowish grey fresh, coarse grained, crystalline with minor vugs and medium grained tarnished pyrite.

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**Rock Sample Descriptions**Property: Swan

---

Sample Number: W795225 Date Collected: 01/07/2021 UTM: 560462 mE Nad83, Zone 8  
Elevation: 1194 m Sampler: Unknown Person UTM: 7035993 mN

Comments: rusty orange brown- greenish grey brown weathered, medium greenish grey fresh oxidized schist with moderate >400cps. Schist is light silvery grey fresh and heavily fractured. Found as boulder possibly fallen from wall of slide ~30m above but too steep to get up there to investigate. Doesn't appear as sheared or folded schist, just more oxidized and altered.

---

Sample Number: W795226 Date Collected: 01/07/2021 UTM: 560470 mE Nad83, Zone 8  
Elevation: 1212 m Sampler: Unknown Person UTM: 7035947 mN

Comments: similar rust red-brown weathered, medium silvery grey fresh medium grained schist as W795223. high scintillometer readings >500. possible silvery fine grained pyrite in schist layers. In outcrop on slide wall along with more oxidized and fractured schist units (don't have as strong scintillometer readings, only around 400). Schist is heavily oxidized and altered, crumbles very easily, heavily fractured.

---

**APPENDIX IV**  
**CERTIFICATES OF ANALYSIS**





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 Account: F

**CERTIFICATE WH21172435**

Project: SWAN

This report is for 245 samples of Soil submitted to our lab in Whitehorse, YT, Canada on 5-JUL-2021.

The following have access to data associated with this certificate:

HEATHER BURRELL JACK MORTON	MATT DUMALA SCOTT NEWMAN	STEVE ISRAEL LIZ SMITH
--------------------------------	-----------------------------	---------------------------

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

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES
ME-MS61r	4A multi-element ICP-MS + REE	

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

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

Signature:   
 Saa Traxler, General Manager, North Vancouver



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Project: SWAN

**CERTIFICATE OF ANALYSIS WH21172435**

Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
YY21182		0.30	0.019	0.17	11.15	25.3	1000	3.37	0.54	0.05	0.03	146.0	13.0	102	8.27	63.8
YY21183		0.10	0.001	0.09	9.74	14.9	970	3.00	0.47	0.14	0.09	132.5	11.3	91	6.60	24.1
YY21184		0.27	0.001	0.13	10.30	15.3	1040	3.11	0.48	0.20	0.06	99.2	10.6	95	7.29	31.9
YY21185		0.15	NSS	0.09	8.10	10.3	780	2.26	0.30	0.23	0.07	109.0	9.2	71	5.24	25.7
YY21186		0.11	0.001	0.20	10.85	12.7	1050	3.40	0.43	0.12	0.07	113.5	8.2	96	8.03	41.1
YY21187		0.23	0.007	0.19	10.00	16.4	980	3.10	0.55	0.11	0.06	132.5	20.9	92	7.24	49.1
YY21188		0.05	NSS	0.20	10.50	25.8	1010	3.22	0.39	0.15	0.05	117.0	7.2	96	7.50	29.9
YY21189		0.10	<0.001	0.32	9.45	10.9	940	2.75	0.46	0.11	0.06	101.5	7.2	86	6.54	42.4
YY21190		0.33	<0.001	0.09	10.15	9.8	890	2.91	0.41	0.05	0.04	153.5	6.2	88	6.43	40.9
YY21191		0.31	0.001	0.06	10.95	8.8	960	3.25	0.36	0.02	<0.02	159.5	5.1	96	6.75	33.5
YY21192		0.29	0.001	0.08	9.36	14.9	990	2.70	0.37	0.14	0.03	115.5	11.0	82	6.01	46.9
YY21193		0.46	0.001	0.08	7.81	12.4	810	2.13	0.26	0.25	0.04	137.5	9.2	65	4.57	37.4
YY21194		0.33	0.003	0.07	5.31	13.7	920	1.06	0.32	0.33	0.04	75.0	3.1	60	4.79	8.6
YY21195		0.23	0.025	0.14	7.91	22.8	790	2.15	0.43	0.18	0.06	133.5	9.7	69	4.86	59.3
YY21196		0.25	0.014	0.11	10.85	41.8	1000	3.06	0.44	0.06	0.02	151.0	4.6	99	7.44	25.0
YY21197		0.10	NSS	0.53	5.95	7.4	860	1.29	0.22	0.41	0.20	90.0	4.2	59	4.32	15.9
YY21198		0.30	0.003	0.12	9.80	14.6	970	2.71	0.35	0.12	0.04	145.0	6.3	89	6.41	29.4
YY21199		0.28	0.002	0.10	6.14	15.5	1020	1.47	0.26	0.45	0.09	77.7	8.1	65	4.03	20.2
YY21200		0.34	0.001	0.07	7.58	14.8	850	1.94	0.33	0.29	0.07	114.5	10.0	71	4.55	31.7
YY21265		0.21	0.001	0.97	6.44	7.8	840	1.72	0.26	0.51	0.12	84.6	4.4	58	3.75	36.8
YY21266		0.19	<0.001	0.19	7.14	18.4	860	1.75	0.38	0.33	0.09	100.0	7.2	67	4.64	15.7
YY21267		0.18	<0.001	0.15	7.19	23.6	840	1.75	0.41	0.28	0.10	86.2	11.1	69	4.87	21.2
YY21268		0.29	0.001	0.13	7.37	13.8	870	1.94	0.30	0.29	0.05	103.5	7.2	68	4.94	24.0
YY21269		0.33	0.002	0.08	7.55	17.0	980	1.96	0.32	0.27	0.08	105.0	14.0	70	4.71	34.6
YY21270		0.29	<0.001	0.12	8.10	13.6	800	2.14	0.29	0.17	0.04	105.5	6.8	69	5.26	16.4
YY21271		0.31	0.003	0.14	7.13	15.7	950	1.84	0.30	0.34	0.07	104.5	15.1	66	4.24	29.6
YY21272		0.40	0.003	0.05	8.35	19.7	920	2.15	0.28	0.23	0.04	121.5	5.8	79	5.22	18.6
YY21273		0.31	0.009	0.04	8.81	28.0	910	2.31	0.28	0.17	0.03	123.5	4.6	81	5.56	20.0
YY21274		0.24	0.001	0.07	6.87	16.5	770	1.54	0.30	0.35	0.14	105.0	14.0	61	3.80	28.8
YY21275		0.41	0.002	0.13	9.04	15.2	920	2.32	0.33	0.23	0.02	132.0	8.0	78	5.95	34.6
YY21276		0.29	0.006	0.12	8.69	15.8	890	2.13	0.33	0.19	0.05	121.0	6.0	77	5.48	25.8
YY21277		0.29	0.001	0.09	9.10	13.7	880	2.53	0.34	0.11	0.02	139.5	7.2	78	5.80	31.8
YY21278		0.38	0.002	0.06	10.10	19.6	950	2.85	0.36	0.05	0.02	126.0	9.7	85	6.18	44.9
YY21279		0.30	0.004	0.06	9.56	17.5	910	2.71	0.30	0.07	0.03	140.0	8.0	84	5.82	40.0
YY21280		0.29	0.002	0.03	8.85	23.2	830	2.22	0.27	0.09	0.03	121.5	7.5	73	5.02	42.0
YY21281		0.20	0.001	0.14	5.97	15.4	980	1.31	0.30	0.43	0.06	76.1	4.4	68	4.42	11.6
YY21282		0.25	0.005	0.15	6.69	21.1	1010	1.49	0.33	0.42	0.10	89.9	8.5	72	4.04	30.8
YY21283		0.18	0.006	0.24	7.05	20.9	920	1.63	0.38	0.36	0.08	91.0	16.4	69	4.30	71.0
YY21284		0.09	NSS	0.57	6.81	7.1	820	1.56	0.25	0.47	0.22	67.4	7.4	55	3.94	43.0
YY21285		0.26	0.003	0.08	8.77	25.4	950	2.57	0.39	0.10	0.03	119.0	20.8	77	5.47	48.8



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 Account: F

Project: SWAN

**CERTIFICATE OF ANALYSIS WH21172435**

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
YY21182		5.20	32.5	0.23	3.6	0.088	4.12	71.9	63.3	0.98	257	1.21	0.75	10.9	38.9	520
YY21183		4.22	30.2	0.19	3.3	0.079	3.43	66.4	59.2	0.91	325	1.37	0.76	11.9	28.0	430
YY21184		4.14	30.1	0.18	2.9	0.082	3.75	49.5	55.1	0.89	308	1.53	0.73	12.0	23.9	580
YY21185		3.25	22.8	0.17	2.5	0.059	2.72	55.3	42.9	0.73	196	0.98	0.68	9.8	24.1	710
YY21186		3.87	31.0	0.19	3.0	0.082	4.15	58.6	50.2	0.86	173	1.08	0.80	11.3	22.3	710
YY21187		4.56	29.1	0.18	3.1	0.080	3.58	65.2	54.7	0.92	416	1.39	0.72	10.8	38.1	590
YY21188		3.64	30.3	0.17	3.0	0.078	3.92	59.9	50.7	0.89	161	1.27	0.66	11.0	28.0	590
YY21189		3.74	26.3	0.17	2.6	0.075	3.37	51.6	46.1	0.81	158	1.21	0.68	10.2	24.8	630
YY21190		4.46	29.4	0.20	3.5	0.078	3.52	76.5	54.2	0.99	179	1.23	0.85	10.2	19.5	470
YY21191		4.51	31.4	0.20	3.7	0.080	4.04	77.7	58.8	1.12	178	0.98	0.89	11.7	13.2	410
YY21192		4.52	26.5	0.17	3.1	0.072	3.09	57.4	54.0	0.89	255	1.51	0.80	11.6	25.1	480
YY21193		3.66	21.0	0.17	2.7	0.060	2.47	68.8	46.6	0.81	221	0.96	0.88	10.2	23.7	650
YY21194		2.14	18.65	0.13	2.6	0.039	1.43	38.8	24.1	0.40	179	2.08	0.66	15.2	9.5	530
YY21195		5.04	21.4	0.17	2.7	0.061	2.54	67.6	45.5	0.80	246	1.41	0.79	8.4	23.7	820
YY21196		5.23	32.1	0.21	3.6	0.083	3.84	75.1	51.7	0.98	223	1.88	0.74	12.6	12.4	720
YY21197		1.71	18.90	0.14	2.5	0.043	1.73	45.7	20.1	0.37	195	1.42	0.83	11.7	11.8	1280
YY21198		4.40	28.9	0.18	3.3	0.071	3.37	73.2	51.4	0.91	203	1.31	0.79	11.5	16.8	490
YY21199		3.37	16.70	0.11	2.2	0.049	1.54	40.1	35.2	0.65	270	1.84	0.80	12.5	20.6	490
YY21200		4.05	20.6	0.16	2.7	0.054	2.33	57.2	39.0	0.76	281	1.50	0.80	10.5	21.4	760
YY21265		2.53	17.70	0.14	2.1	0.048	1.73	52.1	21.8	0.37	127	1.04	0.77	8.8	25.8	1560
YY21266		4.32	20.6	0.14	2.5	0.059	2.01	50.7	39.1	0.65	294	1.72	0.79	10.9	18.2	400
YY21267		4.70	19.50	0.13	2.4	0.058	2.20	43.1	42.0	0.71	440	1.48	0.74	10.1	27.5	730
YY21268		3.37	21.2	0.14	2.7	0.055	2.33	51.4	40.5	0.69	210	1.35	0.81	11.1	23.7	780
YY21269		3.77	20.0	0.15	2.6	0.056	2.26	50.4	41.4	0.77	321	1.63	0.80	11.5	26.4	370
YY21270		3.90	23.3	0.15	2.8	0.067	2.46	53.1	41.1	0.60	166	1.28	0.76	10.8	14.8	320
YY21271		3.74	18.30	0.14	2.5	0.054	1.97	52.9	38.7	0.77	338	1.50	0.83	11.1	28.2	350
YY21272		4.06	23.6	0.15	2.8	0.063	2.61	60.9	42.2	0.73	182	1.55	0.79	12.0	13.2	360
YY21273		3.87	24.8	0.16	2.9	0.063	2.95	62.3	44.2	0.81	165	1.15	0.79	11.6	11.4	380
YY21274		3.72	16.75	0.15	2.3	0.048	1.81	52.1	42.6	0.69	288	1.05	0.84	9.2	31.6	430
YY21275		3.97	25.4	0.16	3.1	0.063	2.92	66.3	53.7	0.84	207	1.43	0.79	11.2	20.4	380
YY21276		4.00	23.9	0.16	2.9	0.065	2.74	61.0	44.6	0.78	194	1.39	0.77	11.4	15.6	350
YY21277		4.23	26.0	0.16	3.1	0.069	3.06	69.6	48.6	0.86	212	1.35	0.75	10.1	18.0	510
YY21278		4.66	29.2	0.22	3.4	0.075	3.57	61.0	49.9	0.94	229	1.68	0.77	9.6	23.4	440
YY21279		4.39	28.7	0.20	3.4	0.075	3.28	67.8	50.5	0.92	204	1.16	0.79	10.5	20.0	400
YY21280		4.02	24.6	0.20	3.3	0.062	2.96	59.9	45.4	0.86	184	1.00	0.81	10.0	17.8	350
YY21281		2.89	18.30	0.16	2.5	0.047	1.64	39.0	33.6	0.52	181	2.01	0.74	14.5	11.8	430
YY21282		3.84	17.65	0.17	2.5	0.051	1.78	45.4	35.0	0.70	262	1.98	0.80	12.5	20.4	580
YY21283		3.92	18.75	0.16	2.6	0.055	1.87	45.9	43.6	0.68	267	1.61	0.79	11.7	27.5	460
YY21284		2.26	18.55	0.13	2.3	0.050	2.12	34.1	18.6	0.37	184	1.30	0.94	8.3	16.6	2070
YY21285		4.37	26.0	0.19	3.3	0.068	2.95	57.7	48.9	0.88	420	1.35	0.80	10.7	33.5	410



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**CERTIFICATE OF ANALYSIS WH21172435**

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
YY21182		39.3	204	<0.002	0.03	0.98	19.7	<1	3.5	154.0	0.82	0.05	27.2	0.342	1.18	6.2
YY21183		29.6	184.0	0.002	0.03	0.80	18.0	<1	3.4	150.5	0.87	0.05	18.95	0.343	1.10	3.1
YY21184		30.1	196.5	<0.002	0.04	0.72	18.3	<1	3.4	160.0	0.86	<0.05	17.35	0.360	1.14	3.7
YY21185		19.6	141.5	<0.002	0.06	0.64	13.7	<1	2.5	124.5	0.71	<0.05	15.50	0.295	0.79	3.2
YY21186		35.0	209	<0.002	0.05	0.66	18.9	<1	3.5	166.5	0.81	<0.05	20.2	0.342	1.22	4.1
YY21187		32.1	186.0	<0.002	0.03	0.86	17.7	1	3.2	147.0	0.79	<0.05	22.5	0.329	1.08	4.6
YY21188		26.4	203	<0.002	0.06	0.54	18.6	<1	3.5	155.0	0.82	<0.05	18.05	0.333	1.16	4.0
YY21189		30.2	172.0	<0.002	0.05	0.58	16.7	<1	3.0	143.0	0.75	<0.05	16.55	0.310	1.01	4.9
YY21190		32.3	179.5	<0.002	0.01	0.64	17.3	<1	3.1	142.0	0.74	0.05	24.6	0.309	1.05	4.5
YY21191		27.7	195.0	<0.002	0.01	0.60	18.7	1	3.4	156.0	0.84	<0.05	23.7	0.362	1.13	3.9
YY21192		27.5	160.0	<0.002	0.02	1.01	16.1	1	3.0	136.0	0.83	0.05	22.2	0.341	0.97	3.9
YY21193		20.7	125.5	<0.002	0.01	0.85	12.7	<1	2.2	124.5	0.73	<0.05	18.65	0.296	0.75	4.1
YY21194		15.0	73.4	0.002	0.01	1.13	9.3	<1	2.4	95.7	1.07	<0.05	10.05	0.467	0.70	2.8
YY21195		44.2	129.5	<0.002	0.04	1.13	12.9	1	2.2	119.5	0.61	<0.05	28.2	0.257	0.74	3.4
YY21196		19.9	198.5	<0.002	0.02	0.88	19.2	1	3.4	144.5	0.91	0.06	16.80	0.389	1.12	3.0
YY21197		16.8	85.8	<0.002	0.04	0.70	10.4	<1	2.1	124.0	0.85	<0.05	10.95	0.375	0.69	2.6
YY21198		24.0	177.5	<0.002	0.02	0.85	17.1	1	3.1	139.5	0.82	<0.05	19.85	0.342	1.05	3.1
YY21199		19.8	79.8	<0.002	0.02	1.33	10.2	1	2.0	112.0	0.83	0.05	12.20	0.374	0.68	2.8
YY21200		23.0	118.0	<0.002	0.02	0.99	12.4	1	2.3	119.0	0.76	<0.05	17.15	0.324	0.76	2.9
YY21265		28.5	84.1	<0.002	0.04	0.55	11.0	1	1.9	137.0	0.64	<0.05	11.95	0.292	0.64	5.0
YY21266		25.9	110.0	<0.002	0.01	1.07	11.4	<1	2.2	111.5	0.77	0.05	13.00	0.338	0.74	2.6
YY21267		25.8	120.5	<0.002	0.02	1.21	11.2	<1	2.1	107.0	0.72	0.05	13.55	0.309	0.73	2.4
YY21268		22.8	126.5	<0.002	0.01	0.78	12.5	<1	2.3	119.5	0.78	<0.05	15.80	0.319	0.77	3.3
YY21269		21.8	116.0	<0.002	0.01	1.25	12.8	1	2.3	116.5	0.83	0.05	16.55	0.338	0.77	4.1
YY21270		21.3	130.5	<0.002	0.01	0.81	13.0	<1	2.5	115.5	0.76	<0.05	13.50	0.326	0.86	2.5
YY21271		24.7	101.0	<0.002	0.01	1.28	11.7	1	2.1	116.5	0.78	0.05	16.45	0.321	0.73	3.3
YY21272		22.2	132.5	<0.002	0.01	0.87	13.9	1	2.6	124.5	0.83	<0.05	14.85	0.358	0.88	2.7
YY21273		19.5	148.0	<0.002	0.01	0.72	14.6	<1	2.7	125.0	0.84	<0.05	18.25	0.353	0.94	2.9
YY21274		23.9	93.1	<0.002	0.02	1.07	10.2	1	1.8	111.0	0.65	<0.05	16.25	0.282	0.60	2.5
YY21275		24.1	156.5	<0.002	0.02	0.77	15.0	1	2.7	134.5	0.81	<0.05	18.55	0.338	0.94	3.1
YY21276		23.5	143.0	<0.002	0.01	0.90	13.9	1	2.6	123.0	0.82	<0.05	17.65	0.350	0.89	3.0
YY21277		23.5	162.0	<0.002	0.01	0.80	15.5	1	2.7	126.5	0.72	<0.05	20.2	0.308	0.95	3.0
YY21278		29.2	174.5	<0.002	0.02	1.11	17.4	2	3.0	132.0	0.71	<0.05	20.9	0.291	1.05	3.4
YY21279		21.7	168.5	<0.002	0.01	0.83	16.7	1	3.0	128.0	0.77	<0.05	21.6	0.310	1.00	3.2
YY21280		21.5	145.5	<0.002	0.01	0.78	14.3	1	2.6	119.0	0.72	<0.05	19.65	0.301	0.88	3.0
YY21281		23.5	83.8	<0.002	0.02	1.06	10.2	2	2.2	106.5	0.97	<0.05	10.95	0.407	0.70	2.8
YY21282		25.9	89.1	<0.002	0.02	1.39	10.9	2	2.1	112.0	0.84	<0.05	14.95	0.361	0.69	3.2
YY21283		30.7	96.2	<0.002	0.02	1.24	11.4	2	2.3	112.5	0.80	<0.05	17.00	0.336	0.69	3.4
YY21284		35.3	95.2	<0.002	0.05	0.54	10.7	2	1.9	167.0	0.60	<0.05	10.15	0.272	0.69	4.0
YY21285		27.7	151.5	<0.002	0.01	1.15	15.6	2	2.8	124.0	0.78	<0.05	20.5	0.297	0.92	4.1



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Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	
		V	W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho	Lu	Nd	Pr	Sm	Tb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5	0.05	0.03	0.03	0.05	0.01	0.01	0.1	0.03	0.03	0.01
YY21182		135	1.5	9.7	102	124.0	3.15	1.11	1.91	6.84	0.46	0.24	62.9	17.40	11.10	0.81
YY21183		125	1.4	8.4	87	109.0	2.49	0.93	1.66	5.75	0.36	0.21	56.6	15.65	9.83	0.65
YY21184		130	1.4	8.3	80	101.0	2.23	0.92	1.29	4.58	0.35	0.20	42.0	11.50	7.42	0.55
YY21185		98	1.1	7.7	69	88.7	2.18	0.83	1.31	4.68	0.32	0.17	45.7	12.80	7.92	0.54
YY21186		123	1.2	7.8	76	106.0	2.29	0.85	1.48	5.03	0.33	0.19	47.4	13.20	8.37	0.58
YY21187		122	1.4	8.7	94	109.5	2.68	0.97	1.66	5.95	0.39	0.21	54.9	15.35	9.60	0.68
YY21188		120	1.3	8.3	79	104.0	2.46	0.92	1.49	5.42	0.36	0.20	48.4	13.65	8.54	0.62
YY21189		114	1.2	9.5	75	90.7	2.70	1.06	1.40	5.23	0.42	0.20	43.9	12.20	7.94	0.65
YY21190		120	1.1	8.2	89	124.0	2.70	0.92	1.88	6.67	0.38	0.21	66.1	18.30	11.55	0.75
YY21191		132	1.3	7.9	93	133.0	2.76	0.91	2.02	7.06	0.37	0.23	69.2	18.90	12.00	0.78
YY21192		124	1.3	9.2	85	107.5	2.48	1.04	1.43	5.25	0.39	0.21	47.9	13.55	8.46	0.60
YY21193		101	1.1	9.3	78	94.8	2.80	1.03	1.66	5.86	0.41	0.19	58.4	16.00	10.05	0.68
YY21194		154	1.8	10.7	31	92.4	2.21	1.22	0.86	3.20	0.42	0.22	31.6	8.90	5.37	0.42
YY21195		98	1.0	8.0	82	90.6	2.43	0.89	1.57	5.65	0.35	0.18	56.5	15.55	9.60	0.63
YY21196		143	1.6	7.8	80	124.0	2.51	0.88	1.93	6.50	0.35	0.22	63.2	17.70	10.95	0.70
YY21197		108	1.4	9.5	47	90.1	2.16	1.01	1.03	3.79	0.37	0.19	37.7	10.55	6.38	0.47
YY21198		125	1.4	8.6	80	114.5	2.66	0.95	1.79	6.28	0.38	0.21	61.3	17.15	10.60	0.70
YY21199		136	1.4	11.3	60	78.1	2.47	1.24	0.99	3.57	0.45	0.21	32.6	9.15	5.70	0.47
YY21200		118	1.2	9.4	72	91.9	2.51	1.04	1.41	5.07	0.40	0.20	48.3	13.40	8.29	0.61
YY21265		93	1.0	16.1	33	73.9	3.76	1.56	1.49	5.73	0.62	0.22	43.1	12.20	7.67	0.75
YY21266		125	1.2	9.7	64	86.7	2.37	1.07	1.23	4.41	0.40	0.20	42.1	11.75	7.33	0.53
YY21267		112	1.2	8.5	83	82.6	2.13	0.95	1.05	3.85	0.35	0.19	35.5	9.99	6.18	0.47
YY21268		110	1.3	9.5	62	92.1	2.41	1.05	1.23	4.59	0.40	0.20	42.6	12.20	7.49	0.56
YY21269		127	1.3	10.7	85	90.2	2.88	1.24	1.31	4.90	0.48	0.22	42.2	11.95	7.56	0.62
YY21270		115	1.2	8.5	50	96.5	2.24	0.93	1.30	4.60	0.35	0.20	43.7	12.40	7.59	0.54
YY21271		118	1.3	11.8	70	84.3	2.97	1.29	1.37	5.08	0.50	0.21	44.0	12.35	7.66	0.65
YY21272		133	1.4	9.3	61	97.6	2.47	1.02	1.47	5.14	0.39	0.20	51.0	14.30	8.79	0.60
YY21273		130	1.8	8.5	68	102.0	2.38	0.95	1.46	5.32	0.37	0.20	51.8	14.65	8.96	0.61
YY21274		96	1.1	9.6	75	77.1	2.47	1.04	1.27	4.65	0.40	0.18	44.1	12.25	7.43	0.56
YY21275		118	1.4	8.8	73	105.5	2.58	1.03	1.64	5.77	0.40	0.22	55.2	15.50	9.57	0.68
YY21276		124	1.3	8.9	69	101.0	2.50	1.02	1.49	5.35	0.38	0.21	50.2	14.10	8.74	0.62
YY21277		119	1.2	8.5	78	107.5	2.53	0.93	1.65	6.03	0.36	0.20	58.7	16.30	10.05	0.66
YY21278		122	1.3	8.1	94	118.5	2.48	0.91	1.66	5.67	0.36	0.21	53.6	15.05	9.65	0.65
YY21279		118	1.4	8.2	84	118.5	2.57	0.92	1.76	6.15	0.36	0.20	58.1	16.45	10.45	0.71
YY21280		108	1.2	7.9	80	113.0	2.29	0.90	1.56	5.33	0.34	0.20	50.4	14.45	9.14	0.62
YY21281		143	1.6	11.0	45	87.5	2.25	1.14	0.93	3.41	0.42	0.21	31.9	9.05	5.58	0.45
YY21282		134	1.4	11.7	66	86.8	2.67	1.17	1.16	4.28	0.45	0.21	37.4	10.45	6.78	0.57
YY21283		121	1.4	11.0	65	88.7	2.67	1.20	1.20	4.41	0.45	0.21	38.1	10.75	6.96	0.57
YY21284		83	1.0	8.6	40	86.7	1.97	0.87	0.90	3.20	0.33	0.16	26.6	7.56	4.89	0.42
YY21285		114	1.4	10.9	93	116.5	2.90	1.20	1.56	5.70	0.45	0.23	50.0	13.85	9.16	0.69



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Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r
		Tm ppm 0.01	Yb ppm 0.03
YY21182		0.19	1.42
YY21183		0.16	1.19
YY21184		0.15	1.10
YY21185		0.14	1.01
YY21186		0.14	1.14
YY21187		0.17	1.24
YY21188		0.15	1.17
YY21189		0.17	1.22
YY21190		0.15	1.19
YY21191		0.16	1.23
YY21192		0.17	1.26
YY21193		0.17	1.16
YY21194		0.20	1.36
YY21195		0.14	1.02
YY21196		0.16	1.25
YY21197		0.16	1.15
YY21198		0.16	1.21
YY21199		0.20	1.30
YY21200		0.17	1.19
YY21265		0.22	1.44
YY21266		0.17	1.21
YY21267		0.16	1.13
YY21268		0.17	1.22
YY21269		0.19	1.32
YY21270		0.18	1.16
YY21271		0.19	1.36
YY21272		0.17	1.20
YY21273		0.16	1.15
YY21274		0.16	1.11
YY21275		0.17	1.25
YY21276		0.16	1.26
YY21277		0.16	1.19
YY21278		0.16	1.18
YY21279		0.16	1.13
YY21280		0.16	1.14
YY21281		0.18	1.27
YY21282		0.19	1.33
YY21283		0.18	1.33
YY21284		0.14	0.96
YY21285		0.20	1.37



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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
YY21286		0.07	<0.001	0.26	9.73	11.6	960	2.80	0.49	0.14	0.07	106.0	5.7	88	6.39	36.0
YY21287		0.21	0.001	0.09	10.55	12.6	1050	3.13	0.50	0.09	0.04	120.0	7.4	95	6.77	37.8
YY21288		0.29	0.001	0.12	11.35	9.9	1040	3.62	0.56	0.05	<0.02	133.5	6.7	104	9.10	52.6
YY21289		0.19	0.003	0.14	11.55	17.0	1030	3.74	0.61	0.03	0.03	133.0	15.7	100	9.52	99.8
YY21290		0.14	<0.001	0.17	10.30	21.1	1040	2.93	0.42	0.18	0.12	113.5	9.6	95	6.81	54.6
YY21291		0.30	0.003	0.18	6.77	19.5	1110	1.68	0.38	0.51	0.13	96.7	22.8	72	4.47	44.3
YY21292		0.23	0.007	0.10	9.32	16.5	870	2.52	0.43	0.09	0.08	122.5	13.2	77	5.61	47.7
YY21293		0.26	0.002	0.18	6.38	17.4	1170	1.41	0.27	0.53	0.11	82.8	12.6	72	3.92	29.1
YY21294		0.29	0.003	0.08	10.80	21.8	1010	3.03	0.43	0.06	0.03	114.0	9.3	95	6.97	49.9
YY21295		0.37	0.006	0.04	10.70	24.8	1030	3.21	0.41	0.05	0.03	142.0	13.6	94	6.88	58.0
YY21296		0.23	0.004	0.12	9.51	20.1	940	2.77	0.41	0.09	0.04	130.5	13.9	84	6.00	47.2
YY21297		0.26	0.014	0.09	9.07	13.0	860	2.50	0.31	0.07	<0.02	134.0	4.4	81	5.61	25.9
YY21298		0.21	0.002	0.12	8.97	16.8	930	2.34	0.33	0.13	0.04	114.5	7.4	85	5.58	26.0
YY21299		0.29	0.006	0.13	9.30	22.3	1000	2.49	0.34	0.15	0.05	113.5	8.9	83	5.96	36.3
YY21300		0.34	0.006	0.03	9.88	23.9	910	2.76	0.38	0.04	<0.02	118.0	10.4	83	6.19	47.1
YY35588		0.09	NSS	0.23	10.10	9.7	940	3.07	0.60	0.12	0.15	123.0	22.9	94	7.76	66.0
YY35589		0.27	0.002	0.12	8.92	16.8	1010	2.52	0.44	0.21	0.11	134.5	26.0	80	5.81	45.1
YY35590		0.17	0.001	0.19	11.45	9.0	1200	3.58	0.59	0.10	0.05	169.5	9.6	101	7.95	63.2
YY35591		0.15	0.001	0.15	8.44	21.9	930	2.18	0.45	0.24	0.11	120.5	19.3	76	5.55	48.0
YY35592		0.12	0.002	0.20	10.85	9.5	1080	3.30	0.69	0.04	0.02	155.0	4.6	105	7.62	41.8
YY35593		0.04	NSS	0.53	4.09	3.4	550	1.11	0.18	0.65	0.39	49.2	16.1	44	3.19	31.4
YY35594		0.08	<0.001	0.30	7.80	8.8	970	2.00	0.28	0.39	0.25	117.5	9.9	73	5.07	35.6
YY35595		0.21	0.002	0.32	10.60	11.7	1080	3.00	0.36	0.17	0.10	98.3	7.1	94	7.72	32.8
YY35596		0.03	NSS	1.01	3.21	9.6	410	0.77	0.10	0.36	0.12	61.7	3.4	31	2.02	17.2
YY35597		0.09	0.005	0.29	9.00	23.4	960	2.31	0.51	0.19	0.12	108.0	17.4	85	6.49	35.8
YY35598		0.18	0.003	0.10	9.02	15.1	890	2.51	0.33	0.16	0.07	135.0	17.1	78	5.77	37.4
YY35599		0.50	0.005	0.12	11.65	15.2	1030	3.84	0.58	0.06	0.05	163.0	25.1	113	9.30	74.3
YY35600		0.02	NSS	0.18	0.97	1.6	80	0.44	0.05	0.67	0.38	131.5	8.9	12	0.65	17.6
YY35615		0.26	0.012	0.15	10.35	37.0	1080	3.26	0.35	0.11	0.03	108.5	5.1	97	8.42	18.5
YY35616		0.23	0.004	0.16	11.20	9.1	1090	4.12	0.61	0.18	0.13	138.5	14.1	107	8.48	57.4
YY35617		0.30	0.002	0.09	9.79	14.9	970	3.12	0.46	0.14	0.08	140.5	12.5	90	6.84	35.6
YY35618		0.16	0.002	0.31	9.21	60.6	940	3.01	0.40	0.17	0.18	152.0	5.3	88	6.48	36.0
YY35619		0.30	0.003	0.14	10.45	12.7	1030	3.42	0.58	0.12	0.06	140.0	10.4	98	7.77	49.6
YY35620		0.18	0.011	0.62	11.25	26.0	970	3.57	0.68	0.10	0.17	152.0	17.1	100	9.29	72.4
YY35621		0.30	0.093	0.20	12.40	21.6	1170	4.62	0.61	0.05	0.04	136.5	11.4	114	9.40	57.3
YY35622		0.30	0.003	0.11	11.10	16.3	1040	3.83	0.47	0.04	0.04	115.5	11.1	99	7.82	49.6
YY35623		0.37	0.004	0.18	10.55	14.0	960	3.42	0.50	0.09	0.05	145.5	12.3	95	7.70	56.8
YY35624		0.28	0.003	0.15	11.35	13.0	1040	3.93	0.52	0.08	0.06	151.0	18.0	103	8.15	52.5
YY35625		0.16	0.002	0.26	10.40	8.1	950	3.40	0.38	0.16	0.05	137.5	8.2	95	7.04	29.3
YY35626		0.11	0.002	0.18	10.95	9.3	1090	3.54	0.40	0.14	0.08	115.5	17.0	100	7.98	24.0



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**CERTIFICATE OF ANALYSIS WH21172435**

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
YY21286		4.26	27.5	0.18	3.2	0.073	3.42	52.7	34.9	0.68	249	1.51	0.75	10.8	15.3	810
YY21287		4.54	31.3	0.18	3.7	0.085	3.83	59.9	45.0	0.88	183	1.87	0.74	12.9	20.0	620
YY21288		5.00	35.0	0.21	4.4	0.095	4.17	63.8	56.2	1.02	203	2.08	0.65	13.2	16.1	530
YY21289		6.24	33.8	0.20	4.1	0.095	4.05	63.7	58.3	1.05	291	1.99	0.66	10.6	31.0	670
YY21290		5.15	29.6	0.18	3.5	0.080	3.53	55.6	45.1	0.79	325	1.39	0.87	11.7	21.8	750
YY21291		4.16	18.65	0.14	2.6	0.055	1.93	48.9	40.9	0.72	373	2.42	0.86	13.1	39.8	790
YY21292		4.64	26.0	0.17	3.0	0.070	3.19	59.3	40.6	0.81	252	1.19	0.84	9.4	27.7	550
YY21293		3.65	16.95	0.15	2.5	0.051	1.57	42.0	38.1	0.71	281	1.96	0.84	13.8	27.5	510
YY21294		5.03	32.0	0.19	3.6	0.086	3.68	56.0	56.5	0.91	203	1.57	0.75	12.3	21.4	400
YY21295		5.27	32.6	0.19	3.8	0.082	3.87	69.0	55.3	1.03	249	1.61	0.80	10.9	27.5	500
YY21296		4.40	28.7	0.19	3.6	0.076	3.22	62.8	53.2	0.91	223	1.47	0.78	10.9	42.6	710
YY21297		3.30	27.5	0.19	3.5	0.070	3.12	65.4	47.8	0.86	150	0.92	0.79	11.7	11.0	440
YY21298		4.10	26.6	0.16	3.2	0.066	2.84	57.0	41.9	0.74	172	1.63	0.72	12.9	16.2	290
YY21299		3.95	26.9	0.15	3.3	0.071	3.14	55.2	43.9	0.83	218	1.47	0.81	11.8	21.9	400
YY21300		4.64	28.7	0.18	3.4	0.075	3.44	57.7	50.4	0.92	235	1.24	0.76	10.6	27.2	400
YY35588		4.76	27.8	0.18	3.5	0.082	3.58	59.9	44.6	0.90	532	2.30	0.53	11.2	58.3	750
YY35589		4.36	24.6	0.17	3.4	0.069	2.95	64.8	48.4	0.81	567	1.65	0.83	11.7	45.8	600
YY35590		5.06	34.2	0.23	4.3	0.094	4.25	82.6	53.5	0.94	262	2.35	0.83	12.0	27.0	540
YY35591		4.70	23.1	0.17	3.1	0.064	2.73	59.6	49.3	0.78	429	1.72	0.80	10.7	55.1	660
YY35592		4.58	32.4	0.21	3.9	0.090	4.25	76.2	42.8	0.92	157	1.83	0.72	12.6	12.2	730
YY35593		1.73	11.15	0.10	1.4	0.032	1.42	25.5	15.7	0.34	1320	1.28	0.39	5.1	30.5	1400
YY35594		2.95	21.0	0.16	2.7	0.058	2.60	59.1	31.8	0.62	400	1.27	0.78	9.4	24.9	990
YY35595		3.69	31.1	0.17	3.4	0.081	3.84	51.2	46.3	0.84	148	1.23	0.85	13.6	23.1	500
YY35596		1.13	9.49	0.11	1.6	0.024	1.07	29.8	11.7	0.20	216	0.95	0.43	4.8	12.5	1180
YY35597		4.69	25.6	0.16	2.7	0.068	2.90	53.7	48.3	0.74	592	2.21	0.70	10.8	35.8	660
YY35598		4.08	25.8	0.18	3.3	0.070	3.11	68.2	47.1	0.90	396	1.13	0.82	10.9	37.3	510
YY35599		5.58	36.0	0.25	4.2	0.100	4.47	75.3	63.1	0.97	419	2.33	0.81	10.1	37.1	600
YY35600		0.44	2.89	0.17	0.3	0.008	0.35	104.0	3.9	0.20	140	0.39	0.08	1.0	59.1	670
YY35615		3.48	31.8	0.17	3.2	0.082	3.82	53.3	41.5	0.60	147	1.32	0.76	14.5	12.8	250
YY35616		5.12	34.3	0.22	3.8	0.095	4.33	65.3	62.9	1.08	244	2.82	0.66	11.2	31.1	590
YY35617		4.54	28.3	0.22	3.4	0.079	3.35	69.1	55.6	0.78	313	1.66	0.76	11.7	24.7	500
YY35618		3.79	28.1	0.23	3.3	0.075	3.39	75.6	28.6	0.51	138	1.97	0.64	11.8	14.0	710
YY35619		4.58	30.9	0.21	3.7	0.086	3.79	69.3	58.4	0.79	246	2.23	0.78	11.9	19.5	580
YY35620		5.62	32.5	0.23	3.5	0.090	3.97	75.6	101.0	0.47	256	1.65	0.56	9.7	44.7	750
YY35621		4.94	36.7	0.23	4.0	0.101	4.85	65.2	60.6	0.94	179	1.69	0.76	12.1	23.8	560
YY35622		4.89	32.9	0.21	3.4	0.091	4.15	55.0	63.6	1.01	198	1.44	0.78	9.9	25.7	420
YY35623		4.67	30.6	0.23	3.6	0.088	3.68	72.5	61.4	0.85	251	1.94	0.80	10.9	28.3	530
YY35624		5.15	32.7	0.24	3.9	0.094	4.18	72.6	62.3	0.96	317	2.15	0.83	11.1	33.4	560
YY35625		3.64	29.7	0.21	3.3	0.083	3.76	68.0	55.1	0.91	186	1.24	0.76	11.1	24.0	500
YY35626		3.85	31.3	0.19	3.3	0.089	4.08	56.9	62.6	0.93	511	1.13	0.77	11.7	19.3	540





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Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
YY21286		30.0	180.0	<0.002	0.05	0.80	17.0	2	3.1	146.5	0.78	0.05	17.70	0.316	1.02	3.0
YY21287		29.5	193.5	<0.002	0.04	0.86	18.9	2	3.5	158.0	0.94	0.05	20.2	0.368	1.13	3.6
YY21288		38.6	215	<0.002	0.04	0.79	21.1	2	4.0	155.0	0.95	0.06	24.6	0.365	1.27	5.0
YY21289		50.1	205	<0.002	0.04	0.88	21.0	2	3.7	154.5	0.77	0.07	33.9	0.313	1.20	8.7
YY21290		31.9	178.5	<0.002	0.04	0.93	17.4	1	3.2	158.0	0.86	0.06	22.3	0.348	1.05	3.5
YY21291		26.9	101.0	<0.002	0.02	1.43	11.8	2	2.2	126.5	0.87	0.05	15.75	0.361	0.70	3.5
YY21292		27.1	160.0	<0.002	0.03	0.89	15.3	2	2.7	132.0	0.67	0.05	20.5	0.283	0.93	3.1
YY21293		20.6	78.9	<0.002	0.02	1.46	10.6	2	2.1	117.0	0.93	<0.05	12.90	0.386	0.67	3.4
YY21294		29.2	196.0	<0.002	0.02	0.91	18.7	2	3.4	140.5	0.89	0.05	20.7	0.354	1.17	3.5
YY21295		32.2	194.5	<0.002	0.02	0.93	19.2	2	3.4	142.5	0.79	0.05	24.2	0.327	1.16	3.6
YY21296		29.4	166.0	<0.002	0.02	0.94	17.2	2	3.0	129.0	0.80	<0.05	23.2	0.306	0.98	5.2
YY21297		22.8	164.0	<0.002	0.02	0.68	15.5	2	3.0	125.0	0.87	<0.05	18.70	0.326	0.95	3.3
YY21298		22.7	144.0	<0.002	0.01	0.99	14.6	2	2.9	119.0	0.91	<0.05	16.40	0.385	0.95	2.9
YY21299		25.0	157.0	<0.002	0.01	0.98	15.6	1	3.0	133.0	0.83	<0.05	18.10	0.339	0.99	3.6
YY21300		26.1	174.0	<0.002	0.01	0.95	16.6	2	3.1	128.0	0.77	0.05	21.1	0.312	1.00	3.8
YY35588		44.6	185.5	<0.002	0.06	0.78	17.7	2	3.3	134.5	0.82	0.06	24.9	0.315	1.04	5.3
YY35589		32.2	149.0	<0.002	0.02	1.03	14.7	2	2.7	138.5	0.83	0.05	21.2	0.330	0.90	4.0
YY35590		32.9	220	<0.002	0.02	0.79	20.3	2	3.7	169.5	0.89	0.06	22.3	0.343	1.28	5.2
YY35591		30.5	137.5	<0.002	0.02	1.40	13.8	2	2.5	129.5	0.74	0.05	20.2	0.306	0.82	3.5
YY35592		41.0	210	<0.002	0.06	0.60	19.9	2	3.7	170.0	0.94	0.07	28.1	0.364	1.25	4.2
YY35593		19.0	71.9	<0.002	0.11	0.55	7.3	1	1.3	91.6	0.37	<0.05	9.24	0.160	0.47	2.9
YY35594		22.6	130.5	<0.002	0.04	0.63	13.1	2	2.2	136.5	0.67	<0.05	15.90	0.281	0.79	3.5
YY35595		23.5	202	<0.002	0.04	0.71	19.1	2	3.5	161.0	0.97	<0.05	16.00	0.381	1.18	4.1
YY35596		8.3	50.0	<0.002	0.09	0.53	5.3	1	1.1	68.1	0.35	<0.05	7.92	0.154	0.35	1.4
YY35597		34.3	152.0	<0.002	0.03	1.22	14.7	2	2.7	128.5	0.77	0.05	17.50	0.312	0.91	3.6
YY35598		25.1	157.0	<0.002	0.03	0.85	14.9	1	2.8	134.0	0.77	<0.05	20.0	0.311	0.90	3.8
YY35599		43.2	223	<0.002	0.04	0.96	22.2	2	3.8	159.5	0.69	0.06	27.5	0.302	1.21	5.8
YY35600		5.3	16.1	<0.002	0.15	0.22	1.6	1	0.3	40.9	0.07	<0.05	1.95	0.036	0.11	1.0
YY35615		19.9	201	<0.002	0.01	0.81	19.1	2	3.7	147.0	0.98	0.05	14.50	0.408	1.10	2.8
YY35616		39.2	225	<0.002	0.05	0.85	21.8	2	4.0	162.0	0.78	0.09	23.7	0.316	1.29	5.3
YY35617		29.6	177.0	<0.002	0.02	0.98	17.2	2	3.1	144.0	0.80	0.06	20.8	0.333	0.92	3.5
YY35618		21.7	178.0	<0.002	0.05	0.98	16.8	2	3.1	161.5	0.81	0.08	23.6	0.335	0.97	3.1
YY35619		41.8	202	<0.002	0.03	0.90	19.0	2	3.5	163.0	0.82	0.05	25.1	0.340	1.07	6.1
YY35620		35.1	210	<0.002	0.05	1.14	19.7	2	3.6	161.0	0.67	0.09	28.4	0.292	1.20	5.2
YY35621		44.5	251	<0.002	0.06	0.90	23.6	2	4.3	176.0	0.83	0.06	24.6	0.345	1.41	5.3
YY35622		31.5	212	<0.002	0.03	0.78	20.4	2	3.6	152.0	0.66	0.05	20.7	0.291	1.09	4.4
YY35623		35.2	197.0	<0.002	0.02	0.85	19.4	2	3.4	154.0	0.74	0.06	24.3	0.306	1.03	5.5
YY35624		34.1	213	<0.002	0.03	0.85	20.8	2	3.8	161.5	0.75	0.08	24.2	0.319	1.17	5.1
YY35625		24.4	193.0	<0.002	0.03	0.55	18.6	2	3.4	142.5	0.76	<0.05	20.0	0.321	1.02	3.9
YY35626		29.0	205	<0.002	0.04	0.61	19.6	2	3.5	152.0	0.82	<0.05	17.60	0.345	1.12	3.7



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**CERTIFICATE OF ANALYSIS WH21172435**

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	
		V	W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho	Lu	Nd	Pr	Sm	Tb
		ppm 1	ppm 0.1	ppm 0.1	ppm 2	ppm 0.5	ppm 0.05	ppm 0.03	ppm 0.03	ppm 0.05	ppm 0.01	ppm 0.01	ppm 0.1	ppm 0.03	ppm 0.03	ppm 0.01
YY21286	116	1.3	7.1	84	114.0	1.99	0.78	1.43	4.82	0.28	0.18	44.3	12.65	8.08	0.54	
YY21287	126	1.7	8.0	87	127.0	2.39	0.91	1.64	5.54	0.35	0.21	50.9	14.25	9.29	0.64	
YY21288	143	2.0	8.5	93	150.0	2.80	1.01	1.84	6.39	0.39	0.24	57.4	16.05	10.60	0.76	
YY21289	134	1.6	8.8	113	141.5	3.04	1.04	1.91	6.74	0.41	0.25	57.7	16.15	10.85	0.80	
YY21290	120	1.4	8.4	90	120.5	2.35	0.97	1.47	5.04	0.36	0.22	47.3	13.40	8.71	0.58	
YY21291	134	1.5	12.6	90	92.5	2.81	1.33	1.24	4.47	0.49	0.23	40.4	11.55	7.20	0.59	
YY21292	101	1.2	7.4	86	107.0	2.27	0.82	1.53	5.30	0.32	0.18	49.8	14.20	8.95	0.60	
YY21293	149	1.6	14.0	62	85.3	2.84	1.41	1.11	4.16	0.52	0.23	35.2	10.00	6.41	0.57	
YY21294	131	1.6	8.1	86	123.0	2.36	0.91	1.51	5.19	0.34	0.21	47.1	13.35	8.68	0.60	
YY21295	132	1.4	8.8	98	129.5	2.75	1.00	1.84	6.40	0.39	0.23	59.7	16.75	10.80	0.73	
YY21296	120	1.4	10.2	106	123.5	3.02	1.17	1.75	6.16	0.45	0.25	55.7	15.70	10.25	0.75	
YY21297	111	1.5	8.0	71	118.0	2.43	0.86	1.64	5.81	0.34	0.19	56.1	15.70	10.05	0.66	
YY21298	140	1.5	9.1	68	112.0	2.37	0.99	1.38	4.84	0.36	0.21	47.0	13.40	8.45	0.59	
YY21299	122	1.5	9.6	81	113.5	2.59	1.08	1.46	5.23	0.41	0.21	47.3	13.25	8.62	0.64	
YY21300	117	1.4	8.8	93	118.5	2.55	1.00	1.54	5.45	0.37	0.21	50.2	13.95	9.10	0.65	
YY35588	118	1.5	8.4	98	123.5	2.64	0.99	1.67	5.79	0.37	0.24	51.7	14.40	9.56	0.66	
YY35589	114	1.6	10.4	99	113.5	2.87	1.15	1.65	5.83	0.44	0.22	54.9	15.55	10.00	0.71	
YY35590	137	1.5	11.3	97	142.5	3.54	1.24	2.27	8.05	0.50	0.27	72.8	20.4	13.40	0.94	
YY35591	107	1.7	9.8	109	110.5	2.54	1.07	1.48	5.10	0.40	0.21	49.0	13.95	8.75	0.60	
YY35592	132	1.5	7.2	84	131.5	2.70	0.80	2.06	6.94	0.34	0.19	65.6	18.30	12.10	0.76	
YY35593	54	0.6	5.9	65	49.4	1.43	0.60	0.72	2.57	0.23	0.12	21.5	5.90	3.98	0.32	
YY35594	96	1.1	8.7	81	94.7	2.33	0.92	1.44	4.92	0.35	0.18	47.8	13.75	8.54	0.59	
YY35595	126	1.6	9.8	79	117.0	2.60	1.07	1.46	5.04	0.41	0.23	42.9	11.80	7.81	0.62	
YY35596	45	0.6	4.9	51	58.5	1.20	0.51	0.71	2.45	0.19	0.10	24.8	6.95	4.45	0.29	
YY35597	118	1.4	9.0	94	94.3	2.31	0.97	1.30	4.63	0.37	0.19	43.8	12.50	7.96	0.56	
YY35598	107	1.3	10.1	94	113.0	2.77	1.08	1.67	5.98	0.41	0.22	56.3	16.00	10.20	0.71	
YY35599	148	1.3	11.8	110	147.0	3.71	1.36	2.37	8.07	0.51	0.27	74.7	20.2	12.30	0.93	
YY35600	11	0.1	39.9	26	11.3	5.87	2.48	1.48	8.53	1.01	0.28	52.1	15.85	6.36	1.18	
YY35615	147	1.8	8.1	57	117.0	1.96	0.86	1.36	4.29	0.30	0.19	47.1	12.80	7.35	0.48	
YY35616	139	1.6	9.0	106	133.0	2.79	0.99	2.02	6.47	0.38	0.22	63.0	16.85	10.50	0.74	
YY35617	127	1.5	9.3	85	122.0	2.34	0.96	1.70	5.41	0.34	0.20	59.9	16.40	9.53	0.60	
YY35618	113	1.3	7.2	61	124.0	2.00	0.79	1.83	5.77	0.27	0.18	64.2	17.55	10.50	0.57	
YY35619	132	1.4	9.5	84	133.0	2.54	1.00	1.79	5.75	0.36	0.21	60.3	16.35	9.61	0.65	
YY35620	128	1.9	8.9	99	131.5	2.29	0.98	1.89	5.67	0.34	0.22	65.4	17.65	10.30	0.60	
YY35621	151	1.8	7.8	97	143.5	2.39	0.90	1.87	5.88	0.32	0.21	60.2	16.20	9.73	0.65	
YY35622	136	1.3	7.6	104	127.0	2.20	0.86	1.58	5.03	0.31	0.19	51.7	14.15	8.48	0.57	
YY35623	128	1.3	9.4	90	129.0	2.58	0.99	1.82	5.96	0.36	0.21	62.3	17.25	10.10	0.67	
YY35624	146	1.3	8.9	110	139.0	2.61	0.99	1.98	6.37	0.36	0.22	65.7	17.90	10.75	0.69	
YY35625	122	1.2	9.1	83	117.5	2.42	0.92	1.73	5.55	0.34	0.19	59.0	15.90	9.35	0.62	
YY35626	135	1.3	8.9	86	117.0	2.29	0.93	1.52	5.00	0.33	0.19	49.8	13.70	7.99	0.57	



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Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r
		Tm ppm	Yb ppm
		0.01	0.03
YY21286		0.13	1.01
YY21287		0.15	1.21
YY21288		0.18	1.39
YY21289		0.18	1.36
YY21290		0.16	1.28
YY21291		0.21	1.41
YY21292		0.13	1.03
YY21293		0.22	1.46
YY21294		0.16	1.22
YY21295		0.17	1.30
YY21296		0.19	1.44
YY21297		0.15	1.12
YY21298		0.17	1.24
YY21299		0.17	1.29
YY21300		0.16	1.23
YY35588		0.17	1.34
YY35589		0.19	1.37
YY35590		0.21	1.56
YY35591		0.17	1.24
YY35592		0.14	1.09
YY35593		0.10	0.70
YY35594		0.14	1.11
YY35595		0.18	1.33
YY35596		0.08	0.61
YY35597		0.16	1.15
YY35598		0.17	1.25
YY35599		0.21	1.54
YY35600		0.30	1.65
YY35615		0.14	1.07
YY35616		0.16	1.26
YY35617		0.15	1.15
YY35618		0.13	1.01
YY35619		0.16	1.21
YY35620		0.16	1.28
YY35621		0.15	1.19
YY35622		0.14	1.08
YY35623		0.16	1.21
YY35624		0.16	1.24
YY35625		0.15	1.11
YY35626		0.15	1.13



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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
YY35627		0.21	0.003	0.11	9.81	11.7	980	3.23	0.44	0.19	0.05	131.0	11.6	90	6.46	36.0
YY35628		0.15	0.003	0.15	9.46	14.1	890	3.16	0.40	0.13	0.07	127.5	8.7	86	6.40	32.5
YY35629		0.08	0.001	0.07	5.39	7.1	580	1.64	0.10	0.11	0.17	89.2	2.6	51	4.09	10.5
YY35630		0.27	0.004	0.10	9.14	13.0	900	3.03	0.38	0.15	0.06	142.5	20.5	86	5.81	35.0
YY35631		0.21	0.001	0.10	10.45	11.5	1010	3.75	0.53	0.10	0.03	144.5	11.6	101	7.52	30.9
YY35632		0.05	0.003	0.11	8.93	9.0	840	2.87	0.33	0.22	0.12	118.0	8.3	81	5.89	17.8
YY35633		0.03	NSS	0.18	9.45	6.5	870	3.46	0.24	0.26	0.13	76.7	8.4	87	7.34	39.7
YY35634		0.29	0.007	0.15	11.00	15.8	1030	4.09	0.49	0.10	0.02	169.0	8.1	99	7.98	38.3
YY35635		0.08	0.004	0.15	9.51	13.2	890	2.99	0.35	0.11	0.04	114.0	5.0	85	6.33	19.1
YY35636		0.31	0.002	0.05	8.43	14.7	750	2.67	0.30	0.12	0.05	142.5	7.8	69	5.17	36.4
YY35637		0.31	0.003	0.07	8.83	16.1	830	2.93	0.34	0.10	0.03	135.5	8.4	75	5.53	35.7
YY35638		0.28	0.001	0.09	7.72	17.4	730	2.23	0.34	0.17	0.03	143.0	6.5	66	4.59	26.3
YY35639		0.31	0.002	0.08	9.40	11.8	920	2.87	0.27	0.18	0.04	127.0	8.9	80	5.58	36.2
YY35640		0.32	0.007	0.20	7.58	15.5	920	2.11	0.33	0.25	0.05	96.1	13.2	73	4.50	45.3
YY35641		0.21	0.004	0.91	6.85	17.1	630	1.89	0.54	0.16	0.13	64.3	5.1	74	4.81	66.9
YY35642		0.14	0.003	1.17	6.16	15.9	670	1.55	0.49	0.23	0.32	69.8	9.3	70	5.21	99.5
YY35643		0.31	0.002	0.10	8.63	17.4	870	2.66	0.32	0.14	0.07	130.0	18.1	73	4.99	44.8
YY35644		0.20	0.001	0.39	8.35	15.9	850	2.36	0.42	0.20	0.08	106.0	8.5	74	5.53	33.3
YY35645		0.30	0.002	0.06	10.30	24.1	960	3.42	0.36	0.06	0.03	115.5	15.1	88	6.91	61.2
YY35646		0.28	0.001	0.07	8.33	9.9	850	2.42	0.26	0.18	0.03	116.5	5.1	74	4.98	18.0
YY35647		0.35	0.001	0.08	10.55	11.3	950	2.97	0.39	0.09	<0.02	148.5	5.5	96	7.07	34.5
YY35648		0.34	0.007	0.12	11.00	20.5	990	3.23	0.45	0.07	0.02	168.5	9.0	93	7.30	30.4
YY35649		0.34	0.004	0.06	11.95	21.0	1000	3.61	0.62	0.02	<0.02	119.0	6.7	106	8.36	58.4
YY35650		0.32	0.014	0.05	11.30	37.0	960	3.36	0.37	0.03	0.02	138.5	9.0	93	7.48	56.8
YY35651		0.40	0.003	0.12	8.04	13.5	930	2.25	0.36	0.23	0.03	122.0	10.6	77	5.24	42.1
YY35652		0.17	0.003	0.25	6.86	13.8	780	1.79	0.33	0.28	0.06	98.8	4.4	66	5.02	22.1
YY35653		0.15	0.006	0.06	5.42	16.0	860	1.20	0.27	0.45	0.08	78.8	6.5	60	3.60	11.0
YY35654		0.34	0.001	0.05	7.44	15.6	790	1.94	0.33	0.20	0.04	102.5	9.3	69	4.59	17.2
YY35655		0.29	0.002	0.05	7.61	13.2	770	1.98	0.28	0.16	0.04	110.5	8.3	65	4.87	25.9
YY35656		0.27	0.001	0.13	6.22	15.9	840	1.46	0.29	0.35	0.05	92.2	5.2	65	4.59	13.3
YY35657		0.25	0.001	0.08	6.86	17.7	900	1.70	0.30	0.38	0.09	87.8	12.3	66	4.07	20.9
YY35658		0.32	0.001	0.05	8.49	13.5	840	2.42	0.29	0.17	0.03	122.5	11.3	71	5.39	45.2
YY35659		0.12	0.001	0.25	10.20	10.5	950	2.97	0.54	0.30	0.05	102.0	5.7	83	6.81	43.5
YY35660		0.14	<0.001	0.17	11.00	10.7	970	3.38	0.55	0.07	0.05	136.5	5.0	96	7.38	32.9
YY35661		0.09	0.002	0.28	8.78	9.2	760	2.52	0.34	0.18	0.07	126.0	5.5	77	5.65	30.4
YY35662		0.29	0.002	0.05	8.98	16.9	930	2.66	0.38	0.15	0.08	125.5	18.6	78	5.56	39.1
YY35663		0.25	0.003	0.07	9.07	24.1	810	2.79	0.49	0.07	0.08	138.0	26.5	77	5.55	54.9
YY35664		0.21	0.003	0.04	9.67	18.6	900	2.82	0.44	0.09	0.02	131.0	6.6	85	6.30	36.2
YY35665		0.25	0.003	0.13	7.96	19.3	840	2.14	0.32	0.21	0.03	118.5	6.4	72	5.19	22.5
YY35666		0.28	0.004	0.12	9.40	19.1	820	2.77	0.33	0.09	0.03	141.5	9.8	80	6.07	30.3



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Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
YY35627		4.11	27.7	0.21	3.3	0.074	3.46	65.8	56.1	0.90	203	1.27	0.78	11.1	23.5	490
YY35628		3.50	27.5	0.20	3.3	0.071	3.26	64.1	52.5	0.81	159	1.14	0.76	11.0	25.3	500
YY35629		1.12	15.55	0.15	2.1	0.039	2.00	44.0	15.0	0.24	60	0.60	0.49	9.0	8.0	480
YY35630		4.02	27.0	0.20	3.5	0.071	3.27	70.9	55.5	0.88	387	1.24	0.79	12.1	29.0	490
YY35631		4.22	31.2	0.23	3.6	0.086	4.08	71.2	55.4	0.91	251	1.42	0.74	13.3	19.1	510
YY35632		3.24	25.5	0.18	2.9	0.067	3.08	59.7	48.1	0.78	183	1.18	0.74	10.5	22.4	530
YY35633		2.81	27.3	0.15	2.4	0.073	3.59	39.0	44.5	0.77	148	0.58	0.51	9.8	27.3	530
YY35634		4.29	33.4	0.26	3.6	0.093	4.19	84.0	60.3	0.99	178	1.35	0.75	12.3	19.8	530
YY35635		3.32	26.8	0.19	2.8	0.077	3.48	58.1	46.3	0.75	125	1.03	0.65	11.3	12.6	470
YY35636		3.76	24.6	0.21	3.1	0.066	2.79	72.5	49.6	0.76	179	1.01	0.84	10.1	21.3	540
YY35637		3.98	26.2	0.20	3.4	0.067	2.88	66.0	54.5	0.84	198	1.16	0.80	10.7	21.5	530
YY35638		3.78	22.0	0.21	2.8	0.057	2.49	72.0	41.1	0.67	165	1.09	0.78	9.5	16.0	740
YY35639		4.04	25.9	0.19	3.1	0.071	3.11	63.0	53.9	0.89	232	1.15	0.91	11.5	23.7	600
YY35640		3.87	20.9	0.16	2.7	0.058	2.22	48.4	45.1	0.70	284	1.66	0.72	10.8	22.5	1200
YY35641		4.95	20.8	0.12	2.4	0.067	2.05	32.6	27.4	0.48	136	2.51	0.50	7.8	15.7	4170
YY35642		5.33	16.90	0.13	2.2	0.063	1.70	36.6	21.0	0.46	290	3.28	0.43	8.7	23.4	4360
YY35643		4.07	23.8	0.18	3.0	0.060	2.80	63.6	48.6	0.81	394	1.30	0.80	9.8	31.9	720
YY35644		3.47	24.2	0.17	2.8	0.064	2.70	53.7	39.4	0.64	196	1.84	0.74	9.3	19.8	1350
YY35645		4.65	30.1	0.20	3.4	0.081	3.68	55.2	60.3	0.94	271	1.18	0.79	9.5	26.5	460
YY35646		3.27	23.4	0.18	2.9	0.061	2.77	58.2	42.3	0.73	170	1.03	0.84	11.3	12.5	360
YY35647		4.16	29.9	0.20	3.7	0.080	3.79	71.7	48.8	0.91	187	1.58	0.75	11.6	13.7	430
YY35648		4.36	31.6	0.21	4.1	0.088	4.07	81.1	54.7	1.01	231	1.07	0.74	11.5	17.3	510
YY35649		5.46	35.0	0.17	4.2	0.097	4.55	51.5	54.2	1.00	178	2.27	0.76	10.4	16.2	610
YY35650		4.67	32.2	0.16	3.9	0.087	3.95	64.2	58.7	0.90	209	1.44	0.73	9.4	25.4	440
YY35651		3.53	21.8	0.18	3.0	0.063	2.54	60.0	48.7	0.78	199	1.42	0.81	11.2	25.0	700
YY35652		2.65	19.60	0.17	2.6	0.050	2.07	49.1	31.6	0.54	132	1.61	0.68	10.2	17.4	1730
YY35653		3.36	15.10	0.11	2.2	0.040	1.41	38.8	33.0	0.56	235	2.08	0.77	11.1	16.2	540
YY35654		3.61	20.7	0.14	2.7	0.055	2.19	50.4	39.8	0.71	247	1.14	0.74	10.1	20.7	280
YY35655		3.38	20.9	0.14	2.8	0.054	2.29	53.7	41.4	0.67	183	1.24	0.77	9.9	19.1	320
YY35656		2.97	17.85	0.14	2.6	0.044	1.81	45.9	31.1	0.58	194	1.69	0.75	12.1	13.2	520
YY35657		3.88	17.00	0.12	2.4	0.054	1.78	42.5	38.4	0.67	328	1.65	0.84	11.2	25.1	430
YY35658		3.61	22.8	0.17	3.1	0.065	2.77	58.5	45.9	0.81	245	1.10	0.83	10.4	25.0	440
YY35659		3.69	27.4	0.18	3.5	0.075	3.52	51.4	38.2	0.64	183	1.99	1.03	10.9	15.4	780
YY35660		4.55	30.4	0.22	3.7	0.087	3.89	67.7	50.0	0.91	173	1.75	0.78	11.0	12.8	530
YY35661		3.56	24.0	0.21	3.0	0.068	2.93	61.9	39.2	0.74	174	1.24	0.71	9.0	14.9	720
YY35662		4.17	24.5	0.19	3.1	0.066	2.90	61.4	49.1	0.85	318	1.28	0.80	10.2	32.7	310
YY35663		4.62	25.3	0.19	3.3	0.069	2.98	64.5	52.2	0.87	475	1.30	0.75	9.2	41.5	440
YY35664		4.48	27.9	0.20	3.5	0.073	3.24	64.2	50.9	0.85	199	1.32	0.76	11.0	15.0	400
YY35665		3.84	22.3	0.20	2.9	0.059	2.46	58.6	42.9	0.72	192	1.43	0.79	11.0	15.3	400
YY35666		4.09	26.4	0.22	3.4	0.074	3.08	67.8	51.0	0.82	203	1.16	0.80	10.3	20.7	350



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**CERTIFICATE OF ANALYSIS WH21172435**

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
YY35627		29.5	180.5	<0.002	0.04	0.80	17.5	2	3.1	145.5	0.76	0.05	21.5	0.319	0.91	4.1
YY35628		26.9	177.0	<0.002	0.04	0.66	17.1	2	3.0	137.5	0.76	0.05	20.4	0.304	0.91	3.8
YY35629		7.5	101.0	<0.002	0.08	0.47	9.8	2	2.0	89.3	0.64	<0.05	10.70	0.272	0.56	1.8
YY35630		27.0	169.0	<0.002	0.03	0.74	16.8	2	3.0	135.0	0.84	<0.05	21.8	0.340	0.95	4.1
YY35631		34.2	212	<0.002	0.03	0.70	19.8	2	3.7	153.0	0.92	0.05	22.5	0.371	1.16	3.9
YY35632		21.3	170.0	<0.002	0.05	0.57	15.8	2	2.8	137.0	0.73	<0.05	16.25	0.294	0.90	2.9
YY35633		20.8	193.5	<0.002	0.07	0.42	17.9	2	3.2	136.5	0.68	<0.05	12.55	0.283	0.98	3.9
YY35634		32.5	221	<0.002	0.04	0.61	20.9	2	3.7	157.0	0.85	0.06	24.2	0.338	1.15	4.9
YY35635		24.5	182.0	<0.002	0.05	0.44	17.0	2	3.1	135.0	0.79	<0.05	16.20	0.324	0.93	3.2
YY35636		23.3	150.5	<0.002	0.01	0.85	15.2	2	2.6	121.5	0.69	0.05	20.8	0.276	0.84	3.4
YY35637		24.6	160.5	<0.002	0.01	0.93	16.3	2	2.8	123.5	0.74	<0.05	20.4	0.289	0.92	3.8
YY35638		20.6	130.0	<0.002	0.02	0.88	13.2	2	2.2	114.0	0.64	0.05	19.10	0.272	0.75	2.8
YY35639		21.2	159.0	<0.002	0.01	0.89	16.4	2	2.8	138.0	0.76	0.05	19.60	0.316	0.88	3.6
YY35640		27.6	118.0	<0.002	0.04	1.18	13.3	2	2.2	112.0	0.71	<0.05	17.35	0.308	0.77	4.2
YY35641		51.5	116.0	<0.002	0.13	0.79	13.6	3	2.1	92.3	0.51	0.06	23.3	0.241	0.70	5.7
YY35642		62.0	93.6	<0.002	0.12	1.03	12.7	3	1.9	79.6	0.56	0.09	19.80	0.275	0.58	7.6
YY35643		23.3	147.0	<0.002	0.02	0.97	15.1	2	2.5	119.5	0.66	<0.05	19.45	0.282	0.81	3.7
YY35644		28.5	148.5	<0.002	0.05	0.75	14.8	2	2.6	126.5	0.64	<0.05	16.75	0.277	0.86	3.7
YY35645		28.9	190.5	<0.002	0.01	1.12	18.8	2	3.2	139.0	0.65	<0.05	22.0	0.282	0.99	3.7
YY35646		17.1	144.5	<0.002	0.01	0.66	14.2	2	2.5	122.0	0.75	<0.05	16.05	0.328	0.80	2.8
YY35647		25.1	202	<0.002	0.01	0.94	18.8	1	3.4	145.0	0.85	<0.05	19.85	0.340	1.16	3.4
YY35648		33.3	212	<0.002	0.02	0.85	19.5	<1	3.5	156.0	0.85	0.05	26.8	0.338	1.22	4.3
YY35649		51.9	220	<0.002	0.04	0.89	21.8	1	4.0	151.5	0.76	0.07	21.2	0.317	1.33	3.4
YY35650		32.9	202	<0.002	0.02	0.82	19.6	1	3.5	146.5	0.69	<0.05	29.8	0.286	1.19	4.1
YY35651		29.4	134.5	<0.002	0.03	0.99	14.1	1	2.6	128.5	0.80	<0.05	22.0	0.317	0.84	4.3
YY35652		23.8	111.0	<0.002	0.05	0.74	12.5	1	2.2	108.5	0.73	<0.05	14.80	0.298	0.75	3.5
YY35653		18.9	71.6	<0.002	0.02	1.20	8.9	1	1.8	105.5	0.77	<0.05	10.85	0.332	0.59	2.5
YY35654		21.3	118.0	<0.002	0.01	0.98	12.0	1	2.3	107.0	0.73	0.05	14.15	0.303	0.78	2.5
YY35655		19.1	126.0	<0.002	0.01	0.85	12.6	1	2.3	107.5	0.70	<0.05	16.25	0.286	0.80	4.2
YY35656		15.9	92.9	<0.002	0.02	1.05	10.6	1	2.2	103.5	0.85	<0.05	12.85	0.352	0.66	2.8
YY35657		21.9	92.0	<0.002	0.02	1.40	10.8	1	2.0	114.0	0.79	<0.05	13.20	0.326	0.64	2.7
YY35658		21.3	145.5	<0.002	0.02	0.83	14.5	1	2.6	127.0	0.75	<0.05	22.1	0.301	0.90	3.8
YY35659		36.8	179.0	<0.002	0.05	0.77	16.9	1	3.1	200	0.79	0.06	18.50	0.317	1.05	4.2
YY35660		36.3	210	<0.002	0.04	0.69	19.6	1	3.4	156.0	0.82	0.05	20.7	0.326	1.18	3.3
YY35661		23.3	156.5	<0.002	0.05	0.59	15.5	1	2.7	137.0	0.65	0.05	16.85	0.278	0.91	3.3
YY35662		26.4	155.0	<0.002	0.01	1.05	15.8	1	2.8	129.0	0.74	0.05	17.70	0.297	0.94	3.7
YY35663		33.5	159.0	<0.002	0.01	1.14	15.4	1	2.8	120.5	0.66	0.05	20.6	0.262	0.93	4.0
YY35664		31.1	175.5	<0.002	0.02	0.91	17.0	1	3.1	131.5	0.80	0.05	20.9	0.322	1.04	3.6
YY35665		23.0	132.5	<0.002	0.01	0.94	13.5	1	2.5	118.0	0.78	<0.05	16.60	0.319	0.84	2.8
YY35666		23.0	167.5	<0.002	0.01	0.75	15.9	1	3.0	126.5	0.75	<0.05	19.00	0.302	0.99	3.1



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**CERTIFICATE OF ANALYSIS WH21172435**

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	
		V	W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho	Lu	Nd	Pr	Sm	Tb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5	0.05	0.03	0.03	0.05	0.01	0.01	0.1	0.03	0.03	0.01
YY35627		120	1.3	9.7	86	117.0	2.39	0.97	1.58	5.33	0.35	0.19	55.9	15.30	8.73	0.60
YY35628		111	2.4	9.3	73	115.0	2.37	0.96	1.57	5.12	0.34	0.19	54.3	14.85	8.59	0.58
YY35629		70	0.9	5.3	31	76.5	1.34	0.56	1.00	3.18	0.20	0.12	37.2	10.35	5.76	0.35
YY35630		113	1.4	9.9	87	124.5	2.56	1.01	1.71	5.68	0.36	0.20	60.8	16.45	9.57	0.64
YY35631		132	1.5	8.3	83	128.5	2.36	0.87	1.73	5.74	0.32	0.20	61.4	16.70	9.78	0.64
YY35632		106	1.2	7.8	79	103.0	2.00	0.80	1.41	4.51	0.29	0.16	49.9	13.70	7.74	0.51
YY35633		107	1.1	8.4	68	83.9	1.89	0.81	1.01	3.56	0.30	0.16	33.0	9.03	5.28	0.43
YY35634		131	1.4	10.0	89	129.0	2.85	1.04	2.08	6.87	0.40	0.21	72.1	20.0	11.55	0.77
YY35635		114	1.2	7.1	64	100.0	1.90	0.73	1.37	4.37	0.27	0.16	47.3	13.20	7.46	0.50
YY35636		99	1.1	8.9	76	109.0	2.40	0.90	1.67	5.46	0.34	0.18	60.1	16.60	9.33	0.62
YY35637		108	1.3	9.7	81	118.5	2.50	1.02	1.63	5.36	0.37	0.20	56.8	15.65	8.97	0.61
YY35638		96	1.1	8.6	66	101.5	2.24	0.86	1.61	5.21	0.32	0.17	59.7	16.35	9.21	0.59
YY35639		115	1.3	10.5	88	115.0	2.54	1.06	1.59	5.17	0.38	0.20	53.7	14.90	8.50	0.61
YY35640		122	1.3	10.1	73	98.3	2.16	1.03	1.16	3.91	0.36	0.18	40.5	11.15	6.40	0.47
YY35641		104	1.0	6.8	46	84.6	1.54	0.70	0.83	2.75	0.25	0.13	25.8	7.50	4.25	0.34
YY35642		118	1.1	8.5	50	82.8	1.92	0.88	0.85	2.93	0.32	0.14	27.4	8.07	4.59	0.39
YY35643		113	1.2	10.2	95	107.5	2.51	1.04	1.62	5.33	0.37	0.20	55.4	15.00	9.00	0.60
YY35644		114	1.1	8.0	63	100.0	1.89	0.82	1.23	4.07	0.29	0.16	44.1	12.35	6.92	0.47
YY35645		121	1.2	8.4	95	124.5	2.21	0.90	1.49	4.90	0.32	0.19	50.9	13.80	8.09	0.57
YY35646		114	1.3	8.5	63	108.0	2.06	0.88	1.42	4.58	0.31	0.18	50.0	13.60	7.82	0.51
YY35647		134	1.4	8.7	80	124.0	2.63	0.92	2.04	6.31	0.35	0.22	62.6	17.05	10.15	0.71
YY35648		134	1.4	8.7	94	135.0	2.95	0.96	2.38	7.31	0.38	0.22	70.7	19.35	11.65	0.81
YY35649		144	1.4	7.1	95	142.5	2.66	0.96	1.95	6.04	0.36	0.24	55.2	14.50	9.57	0.70
YY35650		128	1.4	9.3	90	133.0	2.80	1.07	1.97	6.21	0.41	0.23	58.5	16.00	9.86	0.71
YY35651		116	1.3	10.3	74	102.0	2.65	1.06	1.60	5.25	0.41	0.21	50.3	13.75	8.21	0.63
YY35652		109	1.3	9.1	45	87.5	2.19	0.94	1.25	4.10	0.35	0.18	40.6	11.30	6.61	0.50
YY35653		122	1.4	10.4	52	73.7	2.19	1.10	1.00	3.43	0.39	0.19	33.0	9.06	5.35	0.47
YY35654		109	1.2	8.7	67	90.8	2.15	0.91	1.31	4.20	0.33	0.18	42.6	11.65	6.83	0.50
YY35655		104	1.2	8.8	63	97.7	2.29	0.94	1.40	4.62	0.35	0.18	45.7	12.45	7.29	0.55
YY35656		123	1.4	10.0	51	88.4	2.20	1.03	1.14	3.81	0.38	0.19	38.2	10.60	6.12	0.46
YY35657		112	1.3	9.9	65	82.5	2.28	1.04	1.14	3.73	0.38	0.19	35.9	9.85	5.81	0.47
YY35658		104	1.2	9.3	75	105.0	2.53	1.01	1.56	5.09	0.38	0.20	49.4	13.50	7.99	0.61
YY35659		113	1.3	7.9	64	123.0	2.15	0.81	1.39	4.42	0.31	0.18	42.4	11.65	6.92	0.52
YY35660		121	1.4	7.8	84	129.5	2.48	0.84	1.90	5.91	0.33	0.20	56.9	15.70	9.48	0.67
YY35661		104	1.2	7.5	70	103.0	2.19	0.80	1.67	5.16	0.31	0.18	51.2	14.30	8.37	0.59
YY35662		118	1.3	10.5	83	103.0	2.74	1.07	1.71	5.48	0.41	0.21	52.3	14.20	8.68	0.66
YY35663		105	1.2	9.5	94	111.5	2.78	1.01	1.77	5.84	0.41	0.21	57.3	15.45	9.44	0.70
YY35664		125	1.4	8.6	78	117.5	2.37	0.91	1.68	5.36	0.34	0.21	54.3	14.80	8.86	0.61
YY35665		116	1.3	8.8	64	99.4	2.21	0.93	1.50	4.74	0.35	0.19	48.9	13.50	7.81	0.55
YY35666		108	1.3	8.1	77	113.5	2.39	0.88	1.81	5.67	0.33	0.19	58.2	16.00	9.49	0.64



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Sample Description	Method Analyte Units LOD	ME-MS61r Tm ppm 0.01	ME-MS61r Yb ppm 0.03
YY35627		0.15	1.09
YY35628		0.15	1.11
YY35629		0.09	0.69
YY35630		0.16	1.20
YY35631		0.14	1.09
YY35632		0.13	0.95
YY35633		0.13	0.94
YY35634		0.16	1.20
YY35635		0.12	0.90
YY35636		0.14	1.06
YY35637		0.16	1.18
YY35638		0.13	0.98
YY35639		0.17	1.17
YY35640		0.16	1.12
YY35641		0.11	0.78
YY35642		0.13	0.87
YY35643		0.16	1.18
YY35644		0.12	0.93
YY35645		0.15	1.09
YY35646		0.14	1.05
YY35647		0.16	1.18
YY35648		0.16	1.25
YY35649		0.16	1.31
YY35650		0.18	1.31
YY35651		0.17	1.24
YY35652		0.15	1.07
YY35653		0.17	1.26
YY35654		0.15	1.06
YY35655		0.15	1.12
YY35656		0.17	1.17
YY35657		0.16	1.12
YY35658		0.16	1.17
YY35659		0.14	1.04
YY35660		0.14	1.11
YY35661		0.13	0.99
YY35662		0.17	1.24
YY35663		0.17	1.22
YY35664		0.15	1.15
YY35665		0.15	1.09
YY35666		0.15	1.11





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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
YY35667		0.14	0.002	0.18	5.91	18.3	850	1.24	0.31	0.34	0.06	72.9	6.3	66	3.75	12.7
YY35668		0.33	0.015	0.06	9.23	18.0	840	2.75	0.35	0.08	0.04	139.5	17.0	75	5.56	52.0
YY35669		0.21	0.002	0.03	9.60	20.9	880	2.85	0.36	0.08	0.02	127.5	8.7	80	6.09	43.1
YY35670		0.30	0.007	0.06	8.86	18.3	960	2.46	0.34	0.20	0.06	115.5	11.2	83	5.51	30.3
YY35671		0.33	0.002	0.03	9.98	16.8	920	2.97	0.37	0.08	0.03	142.5	11.9	83	6.35	40.6
YY35672		0.09	0.001	0.44	8.13	12.9	780	2.15	0.43	0.25	0.14	97.8	8.0	74	4.94	62.2
YY35673		0.08	0.002	0.22	8.40	17.0	920	2.30	0.40	0.19	0.08	104.5	9.1	76	5.07	37.2
YY35674		0.07	NSS	0.36	7.22	5.3	740	1.84	0.24	0.33	0.07	82.9	2.7	67	4.46	20.9
YY35675		0.29	0.002	0.03	9.75	19.7	950	2.89	0.39	0.06	0.03	133.5	13.1	79	6.23	50.1
YY35676		0.20	0.003	0.05	8.87	18.8	950	2.77	0.35	0.14	0.04	129.5	15.6	75	5.63	43.8
YY35677		0.22	0.012	0.08	6.41	21.9	1040	1.72	0.29	0.50	0.13	89.2	22.9	66	3.85	53.9
YY35678		0.19	0.002	0.12	9.12	14.8	860	2.72	0.41	0.10	0.02	130.5	9.4	79	6.26	50.1
YY35679		0.41	0.004	0.10	9.11	17.1	950	2.79	0.38	0.15	0.05	155.0	16.6	77	5.77	55.3
YY35680		0.24	0.002	0.28	8.91	11.8	890	2.60	0.35	0.18	0.12	105.5	4.9	82	6.49	32.1
YY35681		0.29	0.002	0.13	8.45	17.3	860	2.53	0.35	0.15	0.05	117.5	10.4	76	5.23	31.7
YY35682		0.28	0.003	0.09	8.62	23.5	800	2.67	0.46	0.14	0.04	135.5	10.7	75	5.27	51.0
YY35683		0.29	0.002	0.08	9.57	20.9	840	3.19	0.33	0.05	0.04	146.5	11.0	78	5.89	43.5
YY35684		0.41	0.002	0.06	11.20	16.2	960	3.67	0.44	0.05	0.05	161.5	14.0	95	6.98	53.1
YY35685		0.18	0.002	0.05	9.77	20.6	890	3.05	0.35	0.10	0.06	145.0	10.8	82	6.11	42.5
YY35686		0.27	0.003	0.09	8.53	19.0	860	2.52	0.35	0.18	0.07	117.5	9.0	76	5.21	28.4
YY35687		0.17	0.001	0.05	5.30	18.6	910	1.18	0.33	0.43	0.09	67.6	4.9	63	3.89	9.8
YY35688		0.07	NSS	0.19	5.54	13.9	760	1.31	0.35	0.45	0.19	62.2	5.8	55	4.34	20.1
YY35689		0.03	NSS	0.07	5.90	14.9	840	1.41	0.26	0.29	0.09	92.6	3.9	66	4.62	9.1
YY35690		0.09	0.004	0.19	6.02	17.5	720	1.55	0.32	0.41	0.05	110.0	8.8	62	3.85	26.4
YY35691		0.30	0.001	0.16	9.69	15.6	900	2.94	0.42	0.11	0.02	143.0	5.8	89	6.50	27.2
YY35692		0.20	0.003	0.12	7.30	17.4	1040	1.94	0.46	0.40	0.15	87.6	17.9	77	4.84	40.1
YY35693		0.11	NSS	0.12	11.40	4.6	1100	3.72	0.76	0.09	0.05	117.0	8.3	97	7.98	53.4
YY35694		0.11	0.001	0.11	7.78	14.4	860	2.23	0.44	0.26	0.07	105.0	11.1	76	5.40	43.1
YY35695		0.27	0.003	0.09	10.50	16.3	1000	3.30	0.65	0.16	0.09	142.0	34.9	94	7.97	67.2
YY35696		0.12	<0.001	0.20	11.80	17.5	1100	3.76	0.64	0.12	0.06	137.5	16.1	110	7.88	52.7
YY35697		0.15	0.008	0.10	7.53	12.2	770	2.23	0.44	0.18	0.05	117.5	5.5	66	4.82	19.4
YY35698		0.02	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
YY35699		0.13	0.001	0.16	7.61	6.5	880	2.36	0.26	0.37	0.16	117.5	12.2	69	5.41	32.3
YY35700		0.07	0.004	0.26	9.91	10.1	910	3.23	0.39	0.31	0.11	130.5	9.1	90	7.71	39.0
YY35701		0.30	0.002	0.03	10.10	19.3	860	3.23	0.37	0.03	<0.02	130.5	9.4	83	6.34	42.1
YY35702		0.32	0.003	0.03	9.99	20.2	990	3.14	0.39	0.09	0.03	133.0	13.6	84	6.13	51.1
YY35703		0.18	0.004	0.08	8.62	17.6	800	2.57	0.31	0.11	0.03	145.5	5.8	76	5.49	23.0
YY35704		0.21	0.013	0.05	9.13	18.0	860	2.80	0.33	0.10	0.02	150.5	9.4	78	5.49	38.8
YY35705		0.29	0.001	0.05	8.85	13.1	860	2.68	0.31	0.15	0.03	132.0	6.8	80	5.78	24.8
YY35706		0.34	0.001	0.09	8.63	12.3	860	2.54	0.33	0.16	0.04	135.0	9.0	79	5.51	27.6



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**CERTIFICATE OF ANALYSIS WH21172435**

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
YY35667		3.94	17.15	0.11	2.3	0.046	1.41	36.7	32.8	0.47	244	2.36	0.65	12.8	14.1	350
YY35668		4.23	25.4	0.18	3.3	0.067	3.03	66.5	51.2	0.89	359	1.11	0.80	9.8	28.0	510
YY35669		4.27	26.7	0.19	3.3	0.072	3.17	61.1	51.7	0.87	200	1.22	0.78	9.7	19.6	340
YY35670		4.16	23.2	0.18	3.1	0.068	2.68	57.5	48.9	0.83	268	1.65	0.76	11.6	21.7	310
YY35671		4.44	27.5	0.21	3.6	0.077	3.33	68.8	53.8	0.92	259	1.31	0.76	11.0	21.5	370
YY35672		3.66	22.3	0.16	2.8	0.062	2.51	48.1	34.8	0.64	198	1.65	0.76	8.5	17.6	1630
YY35673		3.35	21.0	0.14	2.7	0.065	2.55	51.3	41.6	0.67	153	1.10	0.72	9.6	24.8	1250
YY35674		1.70	21.2	0.16	2.9	0.053	2.20	41.2	19.2	0.35	122	1.47	0.91	10.8	8.5	620
YY35675		4.50	27.0	0.20	3.4	0.071	3.27	65.1	52.3	0.93	246	1.28	0.81	9.3	26.4	440
YY35676		4.14	24.3	0.17	3.2	0.066	2.89	63.3	47.7	0.87	327	1.45	0.80	9.9	25.8	440
YY35677		3.54	15.55	0.13	2.4	0.050	1.62	42.3	44.6	0.73	554	1.63	0.84	11.9	62.3	600
YY35678		4.27	25.4	0.18	3.1	0.071	3.03	63.8	50.2	0.82	228	1.37	0.76	9.9	24.0	480
YY35679		4.25	24.6	0.21	3.3	0.069	2.99	76.0	52.7	0.86	285	1.48	0.81	10.2	34.7	500
YY35680		3.09	25.6	0.18	3.0	0.067	3.00	52.6	37.5	0.63	150	1.62	0.76	11.0	13.6	870
YY35681		3.87	23.6	0.18	2.9	0.066	2.77	57.6	49.2	0.78	272	1.69	0.76	10.6	20.3	500
YY35682		4.38	24.7	0.19	3.3	0.069	2.80	65.7	50.3	0.78	257	1.60	0.75	9.9	28.0	470
YY35683		4.27	27.8	0.21	3.5	0.076	3.30	70.3	56.5	0.90	233	1.19	0.80	9.2	28.0	400
YY35684		4.79	32.9	0.22	4.0	0.088	4.07	78.0	62.0	1.05	299	0.92	0.79	10.9	30.8	470
YY35685		4.17	28.3	0.21	3.4	0.076	3.28	71.3	53.6	0.86	300	1.18	0.79	10.2	28.8	510
YY35686		3.86	24.3	0.18	2.9	0.067	2.63	59.1	50.7	0.69	207	1.31	0.76	10.7	19.3	340
YY35687		3.74	17.40	0.13	2.2	0.044	1.35	34.6	29.2	0.44	233	2.52	0.68	12.8	13.0	370
YY35688		2.67	17.00	0.10	2.3	0.043	1.69	31.4	22.0	0.35	421	2.01	0.80	11.3	15.5	1560
YY35689		2.04	21.4	0.15	2.8	0.041	1.84	46.4	20.6	0.33	155	2.20	0.72	14.0	10.8	430
YY35690		3.47	17.30	0.15	2.5	0.046	1.83	55.1	33.8	0.59	225	1.53	0.82	10.3	21.3	690
YY35691		4.51	29.2	0.18	3.4	0.078	3.29	70.5	49.4	0.81	184	1.45	0.77	11.5	12.7	480
YY35692		4.56	20.0	0.14	2.7	0.059	2.07	43.9	47.2	0.68	404	3.23	0.75	12.7	33.0	510
YY35693		6.09	32.4	0.18	3.4	0.094	4.17	56.7	46.5	0.78	326	1.61	0.67	10.7	12.1	890
YY35694		5.57	22.0	0.16	2.9	0.067	2.48	52.0	39.8	0.65	363	2.02	0.71	10.4	20.5	830
YY35695		5.66	29.8	0.18	3.6	0.085	3.44	69.0	68.7	0.64	657	1.95	0.71	10.5	57.9	610
YY35696		5.64	34.0	0.16	3.6	0.097	4.20	66.0	58.1	0.94	427	1.70	0.71	11.8	25.9	720
YY35697		3.15	21.2	0.16	2.5	0.054	2.52	59.2	38.6	0.64	148	0.79	0.61	8.7	15.9	460
YY35698		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
YY35699		2.62	21.6	0.16	2.4	0.058	2.63	58.4	37.0	0.59	165	0.49	0.66	9.5	45.4	670
YY35700		3.22	28.6	0.17	2.9	0.082	3.70	65.7	46.8	0.73	137	0.82	0.60	10.4	27.8	570
YY35701		4.55	29.0	0.18	3.3	0.078	3.48	63.3	55.0	0.90	208	1.10	0.76	9.7	24.9	390
YY35702		4.61	28.0	0.17	3.3	0.079	3.29	65.0	55.8	0.92	283	1.45	0.76	10.7	23.4	440
YY35703		3.77	25.2	0.20	3.1	0.067	2.85	73.0	46.9	0.74	157	1.20	0.74	10.9	13.3	350
YY35704		4.03	26.1	0.21	3.4	0.068	3.05	73.7	50.9	0.86	221	1.21	0.79	10.9	20.8	370
YY35705		3.40	25.9	0.19	3.3	0.070	2.94	65.2	46.6	0.75	183	1.09	0.73	12.4	16.7	470
YY35706		3.65	24.8	0.20	3.1	0.067	2.82	67.0	48.4	0.80	249	1.23	0.77	11.1	17.7	600



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**CERTIFICATE OF ANALYSIS WH21172435**

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
YY35667		19.9	73.2	<0.002	0.02	1.60	9.5	1	2.2	93.7	0.87	0.05	10.50	0.380	0.65	2.5
YY35668		25.5	161.5	<0.002	0.01	0.88	16.0	1	2.8	124.0	1.00	<0.05	21.2	0.257	0.96	4.7
YY35669		23.5	170.5	<0.002	0.01	0.92	16.5	1	2.9	127.5	0.69	<0.05	20.1	0.281	1.00	3.4
YY35670		27.4	142.0	<0.002	0.01	1.17	14.8	1	2.7	123.5	0.83	<0.05	19.20	0.337	0.92	3.2
YY35671		26.0	179.5	<0.002	0.01	0.89	17.6	1	3.1	131.0	0.78	0.05	21.7	0.313	1.04	3.7
YY35672		36.4	128.5	<0.002	0.03	0.77	13.8	1	2.4	135.0	0.63	0.05	17.05	0.268	0.81	3.9
YY35673		32.1	129.5	<0.002	0.05	0.91	14.7	1	2.4	120.5	0.67	0.05	19.55	0.285	0.83	5.3
YY35674		24.8	113.0	<0.002	0.03	0.49	12.8	1	2.5	138.5	0.77	<0.05	10.40	0.362	0.79	2.9
YY35675		30.1	172.5	<0.002	0.02	0.90	17.1	1	3.0	133.5	0.67	0.05	22.0	0.271	1.01	3.6
YY35676		26.3	152.5	<0.002	0.01	1.04	15.9	1	2.7	127.0	0.71	0.05	19.85	0.283	0.93	3.8
YY35677		22.3	83.3	<0.002	0.02	1.50	10.9	1	1.9	117.0	0.83	0.05	15.90	0.338	0.64	4.6
YY35678		27.9	162.5	<0.002	0.02	0.96	15.9	1	2.8	131.0	0.71	<0.05	21.1	0.288	0.97	3.7
YY35679		28.4	155.0	<0.002	0.01	1.03	15.9	1	2.7	135.0	0.74	<0.05	25.0	0.298	0.94	4.9
YY35680		25.7	162.5	<0.002	0.03	0.77	16.1	1	3.0	141.0	0.78	<0.05	14.45	0.314	0.97	3.5
YY35681		25.8	146.5	<0.002	0.02	1.14	14.2	1	2.6	121.0	0.74	<0.05	17.90	0.300	0.88	3.3
YY35682		31.9	150.0	<0.002	0.02	1.14	14.8	1	2.6	120.5	0.72	0.05	21.0	0.290	0.89	3.9
YY35683		26.5	174.5	<0.002	0.01	0.95	16.9	<1	3.0	131.5	0.66	<0.05	21.6	0.273	1.00	4.3
YY35684		32.7	205	<0.002	0.04	0.82	19.8	<1	3.5	169.0	0.80	0.06	26.8	0.321	1.21	4.4
YY35685		25.9	178.5	<0.002	0.02	0.93	17.1	<1	3.0	142.5	0.73	<0.05	21.7	0.302	1.00	3.7
YY35686		25.7	144.0	<0.002	0.01	0.94	14.4	1	2.6	121.5	0.75	0.05	16.70	0.316	0.93	3.1
YY35687		18.2	70.0	<0.002	0.02	1.52	9.4	1	2.0	103.5	0.85	0.07	9.27	0.370	0.59	2.5
YY35688		17.4	91.2	<0.002	0.05	1.04	9.2	1	1.8	126.0	0.71	0.05	9.29	0.299	0.63	2.3
YY35689		11.4	94.2	<0.002	0.03	1.17	11.0	1	2.6	104.5	0.98	0.05	11.50	0.428	0.80	2.7
YY35690		20.6	94.9	<0.002	0.04	1.19	10.4	1	1.9	115.5	0.73	0.05	16.05	0.302	0.60	3.2
YY35691		24.1	180.5	<0.002	0.02	0.85	17.4	1	3.0	139.0	0.80	0.06	18.70	0.334	1.03	3.0
YY35692		35.0	109.5	<0.002	0.02	1.56	12.8	1	2.3	120.0	0.85	0.06	16.60	0.371	0.75	3.7
YY35693		43.6	227	<0.002	0.04	1.11	20.5	1	3.4	172.5	0.76	0.06	18.75	0.314	1.28	3.2
YY35694		35.3	135.0	<0.002	0.03	1.28	13.7	1	2.3	127.0	0.71	0.06	18.95	0.310	0.77	3.1
YY35695		40.7	187.5	<0.002	0.03	1.33	18.3	1	3.1	160.0	0.75	0.06	26.4	0.312	1.08	5.7
YY35696		44.9	223	<0.002	0.03	1.02	21.1	1	3.7	169.5	0.85	0.06	26.6	0.349	1.27	4.4
YY35697		24.3	140.5	<0.002	0.05	0.48	13.2	1	2.2	121.0	0.63	<0.05	17.20	0.248	0.80	3.2
YY35698		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
YY35699		21.7	145.0	<0.002	0.07	0.47	13.9	1	2.3	128.0	0.66	<0.05	15.85	0.269	0.83	4.2
YY35700		29.2	202	<0.002	0.07	0.49	18.1	<1	3.1	146.0	0.74	<0.05	19.25	0.304	1.14	5.4
YY35701		28.0	186.5	<0.002	0.01	0.85	17.4	<1	3.1	131.5	0.70	<0.05	21.2	0.284	1.06	3.8
YY35702		28.6	179.0	<0.002	0.01	1.01	18.2	1	3.0	135.5	0.74	0.05	23.7	0.306	1.02	3.7
YY35703		21.0	155.0	<0.002	0.02	0.72	14.8	1	2.7	123.0	0.77	<0.05	17.90	0.313	0.92	2.9
YY35704		22.9	164.0	<0.002	0.01	0.81	15.8	<1	2.8	127.5	0.80	<0.05	21.8	0.313	0.94	3.6
YY35705		21.1	160.0	<0.002	0.01	0.73	15.6	1	2.9	133.0	0.91	<0.05	17.70	0.345	0.95	3.3
YY35706		21.4	155.0	<0.002	0.01	0.79	15.2	1	2.7	126.5	0.80	<0.05	18.15	0.318	0.91	3.4



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**CERTIFICATE OF ANALYSIS WH21172435**

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	
		V	W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho	Lu	Nd	Pr	Sm	Tb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5	0.05	0.03	0.03	0.05	0.01	0.01	0.1	0.03	0.03	0.01
YY35667		143	1.5	9.7	46	79.9	1.95	1.02	0.89	3.00	0.36	0.19	30.5	8.48	4.83	0.38
YY35668		105	1.2	9.8	90	111.5	2.77	1.02	1.85	5.94	0.40	0.21	57.8	15.65	9.65	0.68
YY35669		117	1.2	9.1	83	113.0	2.53	0.97	1.68	5.39	0.37	0.20	53.9	14.55	8.80	0.63
YY35670		131	1.4	9.5	82	105.0	2.37	0.99	1.47	4.74	0.37	0.20	48.3	13.35	7.82	0.56
YY35671		122	1.4	9.8	86	122.5	2.72	1.06	1.85	5.92	0.40	0.22	58.9	16.20	9.70	0.68
YY35672		102	1.1	8.1	61	95.1	2.09	0.85	1.31	4.19	0.32	0.17	40.8	11.05	6.64	0.50
YY35673		108	1.1	9.4	62	90.9	2.44	0.98	1.37	4.41	0.38	0.18	41.6	11.55	6.90	0.56
YY35674		104	1.2	8.2	29	102.0	1.88	0.85	1.11	3.45	0.31	0.18	34.1	9.41	5.52	0.42
YY35675		115	1.2	9.8	93	115.0	2.71	1.03	1.80	5.78	0.39	0.21	56.7	15.55	9.33	0.67
YY35676		116	1.2	11.5	88	106.0	2.92	1.16	1.76	5.76	0.45	0.22	54.2	14.65	8.95	0.69
YY35677		123	1.4	13.1	91	82.0	2.90	1.33	1.18	4.13	0.50	0.22	35.8	9.88	6.04	0.58
YY35678		108	1.2	8.3	83	107.5	2.46	0.90	1.67	5.31	0.35	0.19	53.5	14.80	8.71	0.62
YY35679		118	1.3	13.5	96	111.0	3.49	1.34	2.03	6.79	0.52	0.26	65.3	17.75	10.90	0.80
YY35680		115	1.3	11.1	53	105.5	2.23	0.92	1.41	4.44	0.34	0.20	44.2	11.95	7.20	0.52
YY35681		112	1.3	8.8	78	100.0	2.30	0.94	1.43	4.73	0.35	0.19	49.5	13.45	8.07	0.56
YY35682		106	1.2	9.6	81	113.0	2.57	1.02	1.65	5.42	0.39	0.21	55.5	15.20	9.15	0.62
YY35683		108	1.2	9.3	94	119.0	2.67	0.98	1.82	6.03	0.38	0.21	61.1	16.70	10.30	0.71
YY35684		130	1.3	9.3	102	135.0	2.98	1.03	2.18	7.19	0.41	0.23	70.6	19.10	11.90	0.81
YY35685		110	1.3	9.4	89	116.0	2.62	1.00	1.83	5.83	0.37	0.21	59.3	16.60	9.93	0.67
YY35686		115	1.3	9.2	69	98.5	2.37	1.00	1.51	4.83	0.36	0.20	49.5	13.60	8.15	0.57
YY35687		146	1.5	10.4	49	79.5	1.92	1.08	0.84	2.85	0.37	0.19	28.7	7.94	4.59	0.37
YY35688		109	1.1	7.9	63	83.8	1.54	0.82	0.79	2.49	0.28	0.15	25.9	7.18	4.10	0.32
YY35689		138	1.6	10.0	35	97.9	2.12	1.07	1.13	3.70	0.37	0.21	38.9	10.75	6.20	0.46
YY35690		98	1.2	9.7	60	84.2	2.35	1.04	1.36	4.42	0.38	0.18	46.1	12.60	7.30	0.53
YY35691		125	1.3	8.4	74	116.5	2.36	1.53	1.81	5.63	0.34	0.21	59.7	16.55	9.73	0.66
YY35692		144	1.6	11.5	91	92.1	2.46	1.22	1.19	3.91	0.43	0.22	37.4	10.10	6.05	0.51
YY35693		130	1.3	7.2	79	118.0	2.05	0.82	1.71	5.18	0.29	0.20	51.8	14.00	8.73	0.56
YY35694		113	1.2	8.8	75	95.6	2.06	0.91	1.36	4.31	0.33	0.19	44.8	12.20	7.22	0.50
YY35695		131	1.4	10.5	116	124.0	2.71	1.17	1.89	5.92	0.42	0.25	59.8	16.30	9.91	0.67
YY35696		133	1.4	9.1	98	124.0	2.63	1.01	1.92	6.05	0.38	0.23	59.6	16.05	10.00	0.69
YY35697		89	1.0	8.3	56	84.9	2.22	0.84	1.47	4.75	0.32	0.16	48.0	13.30	7.63	0.56
YY35698		NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS	NSS
YY35699		91	1.0	11.5	54	83.8	2.72	1.12	1.50	5.09	0.42	0.21	48.7	13.50	7.77	0.62
YY35700		109	1.4	9.4	69	98.9	2.61	0.98	1.70	5.48	0.38	0.21	54.3	15.10	8.90	0.65
YY35701		114	1.2	8.0	90	112.0	2.37	0.89	1.68	5.38	0.34	0.20	53.6	14.90	9.00	0.62
YY35702		123	1.3	10.7	92	112.0	2.73	1.12	1.71	5.62	0.41	0.22	55.7	15.15	8.98	0.67
YY35703		112	1.3	8.5	67	108.0	2.38	0.90	1.75	5.67	0.35	0.20	60.0	16.55	9.85	0.64
YY35704		112	1.4	9.3	84	115.0	2.62	0.99	1.83	5.86	0.37	0.21	61.5	17.05	9.95	0.67
YY35705		116	1.5	9.4	68	111.0	2.47	1.00	1.64	5.29	0.37	0.21	53.6	14.75	8.94	0.62
YY35706		114	1.3	9.6	76	102.5	2.53	0.97	1.65	5.37	0.38	0.20	56.2	15.30	9.27	0.63



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Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r
		Tm ppm	Yb ppm
		0.01	0.03
YY35667		0.17	1.14
YY35668		0.16	1.21
YY35669		0.16	1.19
YY35670		0.16	1.18
YY35671		0.17	1.27
YY35672		0.15	1.00
YY35673		0.15	1.09
YY35674		0.14	1.05
YY35675		0.17	1.25
YY35676		0.18	1.35
YY35677		0.21	1.35
YY35678		0.15	1.10
YY35679		0.21	1.52
YY35680		0.15	1.10
YY35681		0.15	1.11
YY35682		0.17	1.23
YY35683		0.16	1.24
YY35684		0.17	1.33
YY35685		0.16	1.21
YY35686		0.16	1.18
YY35687		0.17	1.20
YY35688		0.13	0.93
YY35689		0.18	1.23
YY35690		0.16	1.12
YY35691		0.15	1.16
YY35692		0.19	1.32
YY35693		0.14	1.12
YY35694		0.15	1.11
YY35695		0.20	1.45
YY35696		0.17	1.30
YY35697		0.13	0.96
YY35698		NSS	NSS
YY35699		0.17	1.24
YY35700		0.16	1.18
YY35701		0.15	1.12
YY35702		0.18	1.33
YY35703		0.15	1.15
YY35704		0.17	1.20
YY35705		0.16	1.19
YY35706		0.16	1.17



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Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
YY35707		0.17	0.002	0.16	7.89	10.0	820	2.65	0.41	0.33	0.25	99.6	17.9	64	5.32	82.4
YY35708		0.15	0.006	0.38	7.27	15.4	740	2.12	0.33	0.31	0.08	153.0	10.1	62	4.64	41.9
YY35709		0.06	NSS	0.37	7.79	13.1	850	2.36	0.38	0.27	0.10	82.3	13.4	71	6.07	37.7
YY35710		0.26	0.005	0.09	8.96	18.3	900	2.74	0.37	0.15	0.06	137.0	11.4	78	5.37	39.7
YY35711		0.08	0.001	0.11	9.09	15.5	970	2.79	0.38	0.22	0.06	115.5	17.9	81	5.74	30.7
YY35712		0.41	0.002	0.08	9.25	18.1	840	2.94	0.41	0.10	0.06	159.0	23.4	79	5.95	40.4
YY35713		0.40	0.002	0.10	9.74	20.1	900	2.98	0.42	0.09	0.04	145.0	13.8	82	5.92	45.7
YY35714		0.22	0.005	0.17	8.51	18.2	850	2.40	0.33	0.20	0.05	141.0	8.1	79	5.26	30.9
YY35715		0.09	<0.001	0.29	7.63	17.8	790	2.18	0.30	0.21	0.08	118.0	5.8	71	5.76	27.1
YY35716		0.14	<0.001	0.24	7.57	13.9	790	2.09	0.27	0.52	0.11	101.0	6.1	67	4.91	25.2
YY35717		0.14	0.001	0.22	9.09	19.0	930	2.83	0.45	0.26	0.13	122.0	7.0	82	6.72	27.4
YY35718		0.16	0.003	0.13	10.15	25.5	940	3.13	0.50	0.22	0.09	155.0	28.5	91	6.82	58.1
YY35719		0.20	0.001	0.27	9.10	24.9	960	2.82	0.48	0.31	0.10	132.5	14.7	85	7.54	58.0
YY35720		0.24	<0.001	0.08	5.55	17.1	830	1.35	0.31	0.31	0.05	78.8	4.1	61	4.40	10.6
YY35721		0.23	<0.001	0.08	5.81	17.7	930	1.29	0.31	0.38	0.05	74.6	4.9	65	4.65	13.4
YY35722		0.20	0.003	0.07	11.90	28.6	1090	4.09	0.71	0.08	0.08	141.0	16.6	107	10.70	43.9
YY35723		0.24	0.005	0.10	9.58	43.6	990	3.32	0.57	0.25	0.14	134.5	32.1	88	9.62	81.7
YY35724		0.22	0.004	0.20	8.63	14.6	980	2.86	0.49	0.26	0.23	136.5	40.5	76	5.76	73.4
YY35725		0.09	0.008	0.22	8.43	7.4	940	2.46	0.32	0.31	0.09	110.5	6.2	76	6.20	24.0
YY35726		0.37	0.041	0.12	8.87	68.8	920	2.86	0.43	0.23	0.07	155.0	9.0	78	5.94	17.3
YY35727		0.12	0.005	0.16	8.80	11.5	940	2.59	0.41	0.28	0.05	119.0	11.6	79	5.98	26.4
YY35728		0.12	0.001	0.16	8.71	9.3	880	2.58	0.42	0.19	0.05	127.0	9.6	78	6.03	23.1
YY35730		0.10	0.002	0.13	7.92	7.2	850	2.31	0.30	0.29	0.08	100.0	6.0	70	5.58	18.9
YY35731		0.28	0.001	0.12	8.56	12.4	880	2.57	0.38	0.21	0.05	134.0	9.5	74	5.71	23.1
YY35732		0.35	0.002	0.16	8.74	9.9	890	2.62	0.36	0.20	0.06	122.0	8.1	76	5.97	26.0
YY35733		0.23	0.004	0.14	9.10	11.6	880	2.75	0.40	0.17	0.06	124.5	8.4	80	6.16	27.6
YY35734		0.22	0.003	0.17	9.09	12.1	870	2.81	0.40	0.18	0.05	126.0	8.0	81	6.30	24.5
YY35735		0.13	0.007	0.14	10.15	13.6	940	3.20	0.37	0.17	0.06	127.5	10.8	92	7.22	26.8
YY35736		0.25	0.003	0.13	9.77	10.0	910	2.97	0.41	0.15	0.04	129.0	11.0	87	6.63	22.9
YY35737		0.26	0.003	0.12	9.94	10.4	910	3.05	0.42	0.12	0.05	149.5	10.1	87	6.73	24.2
YY35738		0.13	0.002	0.09	9.48	8.6	840	2.92	0.41	0.18	0.09	132.0	10.1	83	6.45	30.9
YY35739		0.25	0.001	0.08	10.25	16.3	910	3.19	0.46	0.10	0.04	140.5	13.0	92	6.83	34.7
YY35740		0.03	NSS	0.20	6.96	6.5	640	2.17	0.27	0.29	0.20	70.0	14.2	63	5.06	37.9
YY35741		0.25	0.002	0.15	10.30	11.1	950	3.25	0.44	0.11	0.03	127.0	10.1	94	7.39	24.7
YY35742		0.11	0.006	0.15	9.28	9.5	850	2.91	0.43	0.23	0.07	110.5	11.5	86	6.49	34.4
YY35743		0.24	0.003	0.15	9.62	9.1	890	2.98	0.43	0.15	0.04	131.0	7.5	85	6.89	29.0
YY35744		0.19	0.001	0.14	10.20	10.7	960	3.34	0.45	0.12	0.03	134.5	9.0	95	7.30	25.5
YY35745		0.18	0.002	0.17	10.50	9.5	980	3.46	0.45	0.13	0.03	111.5	8.1	98	7.97	33.5
YY35746		0.07	0.002	0.13	10.50	9.7	950	3.58	0.44	0.13	0.05	135.5	8.7	97	7.77	26.0
YY35747		0.25	0.004	0.16	10.70	12.5	1000	3.59	0.47	0.12	0.09	148.5	33.6	96	7.90	41.0



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Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
YY35707		3.07	21.3	0.18	2.8	0.068	2.43	51.0	30.8	0.51	362	2.03	1.20	8.9	31.9	1320
YY35708		3.24	19.65	0.22	2.9	0.055	2.30	76.7	38.6	0.63	190	1.15	0.78	10.3	30.6	680
YY35709		3.40	21.9	0.15	2.3	0.063	2.50	42.3	44.2	0.61	230	1.38	0.68	9.3	30.8	1160
YY35710		4.05	25.5	0.19	3.3	0.071	2.95	67.7	50.7	0.84	293	1.24	0.81	10.3	27.3	490
YY35711		3.90	26.2	0.19	3.0	0.073	3.03	57.5	50.7	0.83	699	1.23	0.79	10.9	30.1	610
YY35712		4.39	26.8	0.22	3.4	0.071	3.11	78.6	53.4	0.83	453	1.16	0.75	9.7	28.1	490
YY35713		4.49	28.0	0.19	3.5	0.077	3.25	70.6	56.1	0.91	285	1.16	0.80	9.7	29.7	480
YY35714		3.97	24.2	0.19	3.1	0.067	2.79	70.3	48.6	0.80	212	1.15	0.80	10.9	22.2	490
YY35715		2.86	22.6	0.17	3.1	0.060	2.53	59.0	31.8	0.53	166	1.72	0.74	11.1	18.1	600
YY35716		2.54	23.0	0.18	3.4	0.057	2.53	51.5	26.5	0.47	285	1.60	1.09	10.3	15.6	1320
YY35717		3.55	26.4	0.19	3.4	0.071	3.24	62.5	35.9	0.62	241	1.25	0.88	11.2	16.7	640
YY35718		4.91	27.2	0.20	3.5	0.080	3.42	77.9	56.6	0.90	507	1.77	0.77	11.4	51.6	660
YY35719		4.55	25.3	0.19	3.2	0.074	3.09	67.1	46.1	0.68	306	1.90	0.83	10.6	43.7	760
YY35720		2.95	19.30	0.12	2.5	0.044	1.47	40.7	23.8	0.37	177	2.26	0.63	14.4	10.9	310
YY35721		2.97	17.80	0.11	2.4	0.042	1.71	39.0	25.9	0.45	215	2.12	0.74	12.7	12.4	430
YY35722		5.14	34.8	0.21	4.0	0.097	4.31	66.7	64.7	0.70	321	1.76	0.77	13.0	37.5	610
YY35723		5.36	26.3	0.19	3.3	0.082	3.11	65.9	65.6	0.65	415	1.63	0.81	10.0	65.4	650
YY35724		4.51	24.0	0.17	3.0	0.071	2.83	61.5	51.2	0.77	753	1.56	0.81	10.5	100.5	600
YY35725		2.39	23.5	0.18	2.7	0.061	2.85	56.8	42.6	0.62	151	0.68	0.74	10.7	17.9	640
YY35726		3.60	25.8	0.21	3.4	0.070	2.98	77.9	45.4	0.82	306	0.98	0.90	11.1	15.6	500
YY35727		3.56	24.0	0.20	2.9	0.067	2.89	60.4	48.3	0.78	232	0.85	0.77	10.4	26.7	610
YY35728		3.29	24.2	0.19	3.0	0.066	2.92	64.8	46.5	0.75	213	0.81	0.70	10.2	20.8	520
YY35730		2.35	22.6	0.16	2.5	0.057	2.65	51.2	38.9	0.61	149	0.62	0.73	9.6	16.9	530
YY35731		3.42	24.0	0.20	3.2	0.065	2.78	68.1	49.7	0.78	211	0.91	0.81	10.6	22.6	410
YY35732		3.17	24.7	0.20	3.0	0.066	2.94	61.4	46.7	0.76	180	1.03	0.76	10.5	22.5	470
YY35733		3.52	25.9	0.20	2.9	0.070	3.07	63.6	48.2	0.81	198	1.11	0.75	9.8	22.8	450
YY35734		3.49	26.0	0.20	3.0	0.074	3.07	64.0	47.6	0.80	191	1.26	0.75	10.0	23.0	450
YY35735		3.39	29.3	0.22	3.0	0.077	3.60	64.9	49.7	0.88	225	1.07	0.70	10.7	23.7	500
YY35736		3.77	27.6	0.20	3.2	0.075	3.39	64.8	52.4	0.88	263	0.91	0.74	10.3	21.3	410
YY35737		3.70	28.0	0.23	3.2	0.077	3.42	75.4	50.7	0.89	264	0.99	0.72	10.4	20.7	440
YY35738		3.75	26.4	0.22	3.2	0.073	3.24	67.3	49.6	0.85	225	1.01	0.74	9.5	26.3	460
YY35739		5.84	28.9	0.22	3.3	0.082	3.49	70.0	53.4	0.91	279	1.61	0.76	8.7	22.7	440
YY35740		2.92	18.55	0.14	1.7	0.055	2.43	35.3	32.1	0.58	226	0.60	0.45	6.2	33.1	640
YY35741		3.77	29.8	0.22	3.5	0.079	3.66	64.1	54.9	0.91	228	0.97	0.76	12.4	24.2	450
YY35742		3.62	26.1	0.20	2.8	0.074	3.26	56.1	45.9	0.81	215	0.93	0.61	9.8	31.3	470
YY35743		3.56	27.1	0.22	3.0	0.074	3.37	66.0	46.4	0.84	183	0.98	0.70	8.1	20.3	500
YY35744		3.91	29.9	0.24	3.3	0.083	3.67	67.8	51.3	0.93	219	1.02	0.76	9.9	21.7	440
YY35745		3.85	29.9	0.21	2.9	0.085	3.98	56.6	47.4	0.86	184	0.83	0.62	10.1	20.7	510
YY35746		3.62	31.3	0.25	3.2	0.088	3.95	67.8	51.3	0.93	171	1.03	0.63	10.9	23.7	440
YY35747		3.97	31.2	0.26	3.3	0.088	3.89	74.1	52.6	0.93	635	1.13	0.70	10.8	26.8	550





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**CERTIFICATE OF ANALYSIS WH21172435**

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
YY35707		30.6	124.5	<0.002	0.06	0.70	14.0	1	2.5	160.5	0.63	0.08	14.55	0.273	0.74	5.3
YY35708		20.8	121.5	<0.002	0.03	1.00	12.2	1	2.2	126.0	0.73	0.05	18.40	0.290	0.69	3.9
YY35709		28.8	138.0	<0.002	0.06	0.65	14.4	1	2.4	128.0	0.65	<0.05	15.05	0.275	0.83	4.1
YY35710		25.7	156.5	<0.002	0.01	0.96	15.5	<1	2.8	130.0	0.75	<0.05	20.7	0.307	0.92	4.0
YY35711		24.7	164.0	<0.002	0.03	0.82	15.8	1	2.9	138.0	0.77	0.05	16.95	0.313	0.97	3.3
YY35712		27.5	167.0	<0.002	0.01	0.92	16.0	1	2.8	130.5	0.72	0.05	23.5	0.288	0.96	4.0
YY35713		29.7	174.5	<0.002	0.01	0.96	17.1	<1	3.0	135.0	0.69	<0.05	22.8	0.288	1.00	4.3
YY35714		24.0	149.0	<0.002	0.02	0.93	14.5	1	2.7	127.5	0.77	<0.05	19.25	0.317	0.87	3.4
YY35715		26.2	137.0	<0.002	0.04	1.16	13.7	1	2.5	122.0	0.81	0.05	16.05	0.335	0.82	3.2
YY35716		18.2	121.0	<0.002	0.06	0.78	12.8	1	2.4	187.5	0.75	<0.05	16.55	0.329	0.77	3.1
YY35717		31.4	172.0	<0.002	0.03	0.77	16.2	1	2.8	165.5	0.84	0.05	18.20	0.340	0.97	4.2
YY35718		36.4	182.0	<0.002	0.03	1.08	18.0	1	2.9	151.5	0.84	0.06	25.9	0.342	1.03	4.6
YY35719		36.5	165.5	<0.002	0.03	2.13	17.0	1	2.8	150.0	0.75	0.05	22.2	0.318	1.00	4.9
YY35720		16.8	79.1	<0.002	0.01	1.42	10.1	1	2.4	95.6	0.98	0.07	10.35	0.445	0.65	2.7
YY35721		18.0	88.3	<0.002	0.02	1.25	10.0	1	2.1	106.0	0.90	0.05	11.25	0.393	0.69	2.8
YY35722		33.6	233	<0.002	0.03	2.41	22.5	1	3.9	183.0	0.94	0.08	22.5	0.373	1.35	4.2
YY35723		44.3	169.5	<0.002	0.03	3.63	17.1	1	2.9	147.5	0.72	0.07	25.6	0.300	1.01	6.7
YY35724		32.2	150.0	<0.002	0.03	1.16	15.4	1	2.7	138.0	0.80	0.06	23.3	0.305	0.90	5.1
YY35725		18.4	156.0	<0.002	0.06	0.56	14.9	1	2.7	140.0	0.79	<0.05	15.45	0.313	0.95	3.5
YY35726		30.3	162.0	<0.002	0.02	0.68	16.0	1	2.9	145.0	0.80	<0.05	19.55	0.309	0.96	3.4
YY35727		27.4	157.0	<0.002	0.03	0.66	15.5	1	2.7	136.5	0.75	<0.05	18.40	0.310	0.91	3.7
YY35728		26.5	160.0	<0.002	0.03	0.53	15.1	1	2.7	129.5	0.72	<0.05	17.90	0.296	0.88	3.5
YY35730		19.6	144.0	<0.002	0.05	0.43	14.0	1	2.5	132.0	0.69	<0.05	12.30	0.277	0.85	3.0
YY35731		24.9	153.5	<0.002	0.02	0.71	14.9	1	2.6	133.0	0.77	<0.05	18.45	0.301	0.89	3.5
YY35732		23.7	164.5	<0.002	0.03	0.60	15.7	1	2.7	135.0	0.75	<0.05	17.15	0.298	0.96	3.3
YY35733		23.7	169.0	<0.002	0.03	0.59	16.4	1	2.8	135.0	0.71	<0.05	17.45	0.283	0.96	3.3
YY35734		22.8	171.5	<0.002	0.04	0.60	16.3	1	2.9	139.0	0.71	<0.05	17.10	0.291	0.97	3.4
YY35735		24.2	198.5	<0.002	0.04	0.49	18.2	1	3.2	150.5	0.78	<0.05	16.85	0.319	1.13	3.9
YY35736		26.2	187.0	<0.002	0.04	0.56	17.4	1	3.1	141.5	0.76	<0.05	18.20	0.303	1.07	3.4
YY35737		26.1	188.0	<0.002	0.03	0.56	17.6	1	3.1	142.5	0.77	<0.05	19.70	0.300	1.08	3.4
YY35738		26.9	176.5	<0.002	0.04	0.60	16.9	1	2.9	137.5	0.70	<0.05	19.70	0.285	0.99	3.9
YY35739		35.3	188.5	<0.002	0.03	0.79	18.0	1	3.0	142.0	0.62	0.05	22.1	0.263	1.08	4.3
YY35740		32.4	133.5	<0.002	0.10	0.46	12.7	<1	2.0	106.5	0.48	<0.05	12.85	0.192	0.75	4.5
YY35741		25.5	201	<0.002	0.03	0.57	18.7	1	3.4	147.5	0.92	<0.05	18.10	0.360	1.12	3.7
YY35742		30.3	181.0	<0.002	0.06	0.53	16.9	1	3.0	138.5	0.72	0.05	18.55	0.285	1.02	4.4
YY35743		29.0	189.5	<0.002	0.04	0.50	17.3	<1	2.9	144.0	0.59	0.05	20.8	0.243	1.07	3.9
YY35744		29.3	203	<0.002	0.03	0.58	18.5	<1	3.3	149.0	0.72	0.05	20.3	0.289	1.14	3.7
YY35745		34.9	215	<0.002	0.06	0.48	19.4	1	3.4	152.5	0.74	<0.05	20.2	0.303	1.25	4.9
YY35746		27.5	219	<0.002	0.04	0.43	19.6	1	3.5	150.0	0.81	<0.05	19.25	0.317	1.23	3.9
YY35747		35.0	216	<0.002	0.05	0.51	20.1	1	3.5	156.5	0.81	0.05	21.9	0.310	1.22	5.6





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**CERTIFICATE OF ANALYSIS WH21172435**

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	
		V	W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho	Lu	Nd	Pr	Sm	Tb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5	0.05	0.03	0.03	0.05	0.01	0.01	0.1	0.03	0.03	0.01
YY35707		98	1.0	9.8	59	99.3	2.51	1.02	1.31	4.36	0.39	0.19	39.6	11.10	6.75	0.56
YY35708		89	1.1	10.6	69	97.5	2.90	1.07	1.87	6.09	0.42	0.20	65.1	17.80	10.60	0.72
YY35709		102	1.1	9.0	72	77.8	2.16	0.94	1.12	3.71	0.35	0.17	34.4	9.52	5.81	0.47
YY35710		114	1.3	10.5	90	110.0	2.78	1.12	1.78	5.88	0.42	0.22	57.2	15.80	9.69	0.69
YY35711		116	1.3	9.6	84	100.5	2.45	1.01	1.50	4.94	0.37	0.20	48.7	13.25	8.05	0.58
YY35712		108	1.2	9.6	90	117.0	2.79	1.02	1.93	6.30	0.40	0.21	65.3	18.10	10.85	0.72
YY35713		113	1.2	10.3	94	117.0	2.85	1.10	1.88	6.12	0.42	0.22	61.0	16.75	10.20	0.72
YY35714		110	1.3	9.6	80	106.5	2.53	0.99	1.75	5.52	0.38	0.20	58.9	16.30	9.62	0.64
YY35715		106	1.5	9.0	56	104.0	2.23	0.96	1.46	4.72	0.35	0.19	49.0	13.30	7.65	0.54
YY35716		99	1.2	8.9	52	118.0	2.08	0.93	1.28	4.07	0.33	0.18	41.9	11.50	6.54	0.48
YY35717		109	1.3	8.5	67	114.5	2.27	0.93	1.56	5.00	0.34	0.20	50.1	13.70	7.91	0.56
YY35718		119	1.6	9.7	100	116.0	2.89	1.03	2.06	6.48	0.41	0.20	64.2	17.30	10.10	0.73
YY35719		122	1.8	11.3	96	110.0	2.77	1.17	1.68	5.60	0.44	0.22	55.9	15.10	8.75	0.65
YY35720		147	1.7	10.4	39	91.8	2.01	1.06	0.94	3.16	0.37	0.19	33.3	9.19	5.01	0.39
YY35721		138	1.5	9.9	47	81.5	1.97	1.08	0.94	3.09	0.37	0.19	31.6	8.79	4.79	0.39
YY35722		144	2.0	7.9	103	137.5	2.23	0.91	1.93	5.92	0.33	0.22	60.6	16.10	9.76	0.61
YY35723		122	1.5	11.4	115	110.5	3.10	1.23	1.83	6.14	0.48	0.23	56.8	15.10	9.26	0.72
YY35724		112	1.2	12.3	135	103.0	3.12	1.32	1.65	5.69	0.51	0.23	51.5	14.00	8.37	0.71
YY35725		102	1.3	9.2	57	89.6	2.30	0.94	1.42	4.68	0.36	0.18	45.6	12.70	7.24	0.55
YY35726		110	1.5	10.7	72	111.5	2.91	1.10	2.01	6.22	0.42	0.20	63.4	17.45	9.98	0.71
YY35727		105	1.3	9.5	77	96.8	2.48	1.00	1.60	5.20	0.38	0.18	50.8	13.55	8.04	0.60
YY35728		104	1.2	8.8	70	97.7	2.32	0.90	1.61	5.23	0.34	0.17	53.3	14.55	8.38	0.59
YY35730		97	1.1	8.6	54	82.5	2.05	0.87	1.27	4.22	0.32	0.17	41.4	11.40	6.51	0.49
YY35731		106	1.2	9.7	78	104.5	2.59	1.04	1.68	5.45	0.39	0.19	56.2	15.20	8.89	0.62
YY35732		103	1.3	9.0	70	101.0	2.36	0.95	1.58	5.24	0.36	0.18	51.6	13.90	8.18	0.59
YY35733		105	1.2	8.7	76	100.5	2.36	0.90	1.59	5.26	0.34	0.19	51.7	14.10	8.25	0.59
YY35734		104	1.2	8.6	74	101.5	2.34	0.90	1.59	5.23	0.34	0.18	52.2	14.35	8.36	0.59
YY35735		114	1.4	9.1	79	101.0	2.50	0.94	1.68	5.54	0.37	0.19	52.3	14.35	8.40	0.63
YY35736		108	1.3	8.6	82	107.0	2.42	0.92	1.69	5.51	0.36	0.19	53.4	14.50	8.53	0.62
YY35737		110	1.3	8.5	81	108.5	2.57	0.88	1.90	6.14	0.35	0.18	62.4	16.85	9.88	0.68
YY35738		104	1.2	9.1	78	103.0	2.52	0.94	1.76	5.63	0.36	0.19	54.1	14.70	8.76	0.64
YY35739		117	1.1	9.0	88	111.0	2.66	0.97	1.84	6.05	0.38	0.20	58.9	15.80	9.42	0.68
YY35740		72	0.8	7.8	63	57.3	1.91	0.77	0.99	3.38	0.30	0.14	28.7	7.91	4.68	0.43
YY35741		117	1.5	8.7	83	116.0	2.39	0.91	1.69	5.47	0.35	0.20	53.3	14.45	8.54	0.61
YY35742		102	1.2	9.0	74	93.0	2.30	0.89	1.47	4.83	0.34	0.18	45.6	12.50	7.43	0.56
YY35743		105	1.1	8.2	74	99.4	2.47	0.86	1.69	5.58	0.34	0.18	54.1	14.85	8.55	0.64
YY35744		111	1.2	8.3	81	110.0	2.53	0.91	1.69	5.76	0.36	0.19	56.4	15.40	8.95	0.66
YY35745		117	1.3	8.3	72	97.8	2.38	0.89	1.48	4.91	0.34	0.18	45.8	12.40	7.28	0.58
YY35746		117	1.4	8.5	80	106.5	2.50	0.88	1.77	5.79	0.35	0.19	56.3	15.35	9.04	0.67
YY35747		118	1.4	10.9	84	110.0	3.14	1.15	2.02	6.73	0.46	0.22	62.6	16.85	10.05	0.77



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Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r
		Tm ppm	Yb ppm
		0.01	0.03
YY35707		0.16	1.11
YY35708		0.17	1.20
YY35709		0.15	1.04
YY35710		0.18	1.30
YY35711		0.16	1.17
YY35712		0.17	1.23
YY35713		0.18	1.32
YY35714		0.16	1.18
YY35715		0.15	1.10
YY35716		0.14	1.06
YY35717		0.15	1.10
YY35718		0.16	1.17
YY35719		0.18	1.30
YY35720		0.16	1.16
YY35721		0.16	1.14
YY35722		0.16	1.24
YY35723		0.19	1.38
YY35724		0.19	1.38
YY35725		0.15	1.05
YY35726		0.17	1.21
YY35727		0.15	1.11
YY35728		0.13	1.01
YY35730		0.13	0.98
YY35731		0.16	1.16
YY35732		0.15	1.08
YY35733		0.14	1.06
YY35734		0.14	1.05
YY35735		0.15	1.10
YY35736		0.14	1.09
YY35737		0.14	1.07
YY35738		0.15	1.09
YY35739		0.15	1.13
YY35740		0.11	0.81
YY35741		0.15	1.12
YY35742		0.13	1.03
YY35743		0.14	1.02
YY35744		0.14	1.08
YY35745		0.14	1.06
YY35746		0.14	1.08
YY35747		0.18	1.30



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**CERTIFICATE OF ANALYSIS WH21172435**

Sample Description	Method Analyte Units LOD	WEI-21	Au-ICP21	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm
YY35756		0.32	0.014	0.19	10.50	32.6	1050	3.32	0.36	0.24	0.15	124.5	14.0	98	7.72	40.0
YY35757		0.30	0.010	0.10	11.30	15.0	1110	3.93	0.59	0.13	0.07	132.0	10.4	105	8.35	40.0
YY35758		0.35	0.002	0.15	9.12	17.1	980	2.56	0.43	0.23	0.07	128.5	9.5	82	6.45	31.3
YY35759		0.40	0.007	0.20	8.75	16.1	1090	2.59	0.49	0.30	0.11	132.5	20.6	79	5.87	44.9
YY35760		0.34	0.002	0.20	9.76	10.5	1050	3.07	0.55	0.16	0.04	128.0	9.1	87	7.06	29.2
YY35761		0.34	0.002	0.22	9.89	7.4	990	2.86	0.44	0.20	0.05	124.5	6.9	86	6.77	28.7
YY35762		0.44	0.002	0.13	9.86	13.2	1050	3.08	0.42	0.21	0.10	160.0	16.8	87	6.82	44.5
YY35763		0.43	0.004	0.25	9.88	18.1	970	3.01	0.49	0.11	0.03	133.0	8.6	89	7.07	33.2
YY35764		0.42	0.003	0.09	9.22	14.3	900	2.65	0.38	0.12	0.06	141.5	10.6	76	5.87	37.4
YY35765		0.44	0.005	0.18	10.55	14.3	1030	3.46	0.44	0.09	0.04	129.5	9.4	97	7.83	38.4
YY35766		0.45	0.004	0.38	11.10	12.1	1050	3.54	0.41	0.12	0.08	144.5	13.5	99	9.35	50.2
YY35767		0.49	0.004	0.16	10.40	10.8	1060	3.34	0.49	0.14	0.05	150.0	11.8	96	7.69	37.2
YY35768		0.48	0.003	0.10	9.01	21.5	960	2.57	0.47	0.22	0.12	133.5	18.3	77	5.66	52.6
YY35769		0.34	0.007	0.11	10.55	10.6	1050	3.29	0.46	0.11	0.03	146.5	10.9	95	7.51	24.9
YY35770		0.34	0.001	0.12	10.90	11.2	1070	3.29	0.51	0.10	0.03	131.0	10.5	97	7.84	29.7
YY35771		0.41	0.003	0.10	11.00	10.9	1100	3.48	0.51	0.12	0.06	136.0	11.9	101	8.01	37.8
YY35772		0.42	0.003	0.17	9.79	13.9	930	2.86	0.45	0.11	0.03	137.0	8.9	86	6.82	29.0
YY35773		0.32	0.004	0.19	10.75	13.8	1020	3.21	0.47	0.14	0.05	123.5	13.5	96	7.69	33.5
YY35774		0.34	0.002	0.17	10.90	14.6	1060	3.30	0.50	0.10	0.02	138.0	11.3	99	7.75	36.9
YY35775		0.38	0.002	0.15	10.35	10.5	1010	3.16	0.44	0.17	0.05	143.5	11.8	91	7.58	32.3
YY35776		0.30	0.003	0.16	10.80	11.2	1100	3.70	0.39	0.14	0.04	130.0	15.5	101	8.34	30.0
YY35777		0.29	0.002	0.15	10.10	11.7	980	2.98	0.36	0.15	0.03	127.5	7.8	89	7.18	22.7
YY35778		0.29	0.003	0.15	11.55	12.5	1120	3.64	0.48	0.10	0.03	114.0	7.2	107	8.74	23.9
YY35779		0.31	0.005	0.15	11.15	12.3	1030	3.51	0.51	0.07	0.02	183.0	8.7	99	7.84	28.9
YY35780		0.21	0.008	0.18	10.80	14.4	1050	3.32	0.44	0.11	0.03	135.0	7.0	97	8.05	26.7
YY35781		0.11	0.002	0.34	6.62	9.7	730	1.79	0.51	0.31	0.08	90.7	6.6	61	4.57	40.9
YY35782		0.15	0.002	0.15	7.50	9.7	800	1.94	0.36	0.24	0.06	105.0	5.3	66	4.99	18.5
YY35783		0.04	NSS	0.20	7.80	19.4	800	2.29	0.39	0.29	0.09	104.0	8.0	68	5.25	22.1
YY35784		0.22	0.004	0.17	8.56	16.7	920	2.39	0.37	0.22	0.04	129.5	9.5	75	5.50	26.1
YY35785		0.12	0.004	0.16	8.39	12.7	880	2.31	0.34	0.27	0.07	152.0	9.4	74	5.56	28.8
YY35786		0.04	NSS	0.17	6.71	6.9	730	1.94	0.28	0.31	0.15	108.5	12.0	61	4.67	29.1
YY35787		0.24	0.009	0.24	9.89	21.9	990	3.03	0.38	0.12	0.06	133.0	9.9	89	7.06	25.2
YY35788		0.06	NSS	0.15	9.03	14.6	870	2.78	0.35	0.18	0.07	108.0	10.2	82	6.34	28.7
YY35789		0.21	0.006	0.13	9.78	14.0	1110	2.91	0.44	0.11	0.02	158.0	9.4	89	6.68	26.7
YY35790		0.04	NSS	0.21	7.19	10.6	920	2.07	0.28	0.34	0.09	115.0	13.1	64	4.98	37.1
YY35791		0.17	0.004	0.18	9.94	11.6	1080	3.04	0.45	0.14	0.04	125.5	9.7	89	6.99	27.1
YY35792		0.10	0.002	0.13	9.17	7.9	870	2.54	0.34	0.22	0.06	123.0	7.0	79	6.07	27.8
YY35793		0.07	0.008	0.16	9.09	16.3	870	2.54	0.32	0.24	0.13	96.9	9.0	82	6.32	27.2
YY35794		0.08	0.003	0.14	9.77	19.8	940	2.71	0.39	0.15	0.03	142.5	7.3	85	6.94	26.9
YY35795		0.13	0.003	0.12	8.85	5.4	830	2.40	0.21	0.14	0.05	139.0	7.0	77	5.99	21.5



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**CERTIFICATE OF ANALYSIS WH21172435**

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	
		Fe %	Ga ppm	Ge ppm	Hf ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Nb ppm	Ni ppm	P ppm
YY35756		3.51	31.4	0.21	3.5	0.085	3.63	61.2	48.9	0.72	434	1.24	0.78	11.2	48.3	570
YY35757		4.73	33.0	0.22	3.9	0.095	4.17	64.1	57.9	1.03	243	1.25	0.73	11.4	25.5	510
YY35758		4.06	26.7	0.17	3.1	0.071	3.06	64.5	47.3	0.77	238	1.71	0.84	10.9	26.7	390
YY35759		4.14	23.6	0.16	3.0	0.068	2.89	66.1	51.5	0.86	411	1.30	0.85	10.4	39.3	660
YY35760		4.14	29.2	0.18	3.5	0.084	3.50	64.2	57.3	0.94	208	1.18	0.81	11.5	22.2	540
YY35761		3.16	27.9	0.16	3.1	0.078	3.51	62.3	55.9	0.92	162	0.91	0.78	11.8	19.0	470
YY35762		4.20	28.4	0.20	3.4	0.080	3.50	77.3	54.9	0.90	301	1.26	0.81	10.9	35.9	550
YY35763		4.32	29.2	0.17	3.4	0.082	3.53	65.0	57.7	0.91	198	1.31	0.77	10.5	24.5	500
YY35764		4.19	25.8	0.18	3.2	0.074	3.08	70.8	50.0	0.84	272	1.10	0.83	9.8	26.6	410
YY35765		4.34	31.3	0.18	3.6	0.082	3.95	62.0	59.7	0.93	221	1.41	0.79	11.1	27.7	480
YY35766		4.61	31.8	0.19	3.4	0.088	4.10	71.6	57.1	0.92	283	1.19	0.64	10.7	45.3	540
YY35767		4.62	30.8	0.19	3.6	0.086	3.82	71.3	61.4	0.97	195	1.45	0.78	10.8	32.4	470
YY35768		4.66	25.0	0.18	3.0	0.069	3.02	65.5	53.5	0.93	339	1.15	0.83	9.3	43.3	520
YY35769		4.24	30.5	0.19	3.5	0.084	3.89	71.8	57.1	0.97	359	1.05	0.76	11.1	19.7	450
YY35770		4.60	31.3	0.17	3.4	0.087	4.02	64.2	59.1	1.01	297	1.26	0.79	10.6	22.0	460
YY35771		4.50	31.7	0.17	3.6	0.090	4.13	65.4	62.8	1.03	258	1.29	0.78	11.3	29.3	480
YY35772		4.26	27.5	0.17	3.3	0.079	3.39	67.9	53.8	0.86	238	1.13	0.81	10.7	20.7	500
YY35773		4.28	30.0	0.17	3.2	0.081	3.92	60.7	56.6	0.96	319	1.08	0.76	11.5	31.1	480
YY35774		4.70	31.7	0.19	3.6	0.090	3.98	67.3	61.4	1.01	234	1.19	0.77	11.8	26.1	490
YY35775		3.94	29.7	0.17	3.3	0.082	3.85	71.4	53.9	0.95	245	0.94	0.76	10.9	27.7	520
YY35776		3.89	33.3	0.18	3.4	0.092	4.25	62.7	58.8	1.02	355	0.77	0.79	11.5	26.1	450
YY35777		3.66	28.3	0.18	3.1	0.079	3.66	63.8	51.0	0.87	187	0.91	0.77	10.3	20.8	460
YY35778		3.97	33.3	0.18	3.4	0.093	4.54	56.2	57.5	0.99	174	0.90	0.72	12.6	19.7	460
YY35779		4.47	31.9	0.21	3.7	0.092	4.24	89.0	57.7	1.05	202	1.23	0.72	11.3	20.8	480
YY35780		3.78	31.4	0.17	3.3	0.085	4.18	65.6	54.0	0.96	168	0.92	0.75	12.4	19.3	510
YY35781		3.45	17.05	0.11	1.9	0.049	2.28	45.0	28.7	0.57	128	0.84	0.47	6.8	31.5	860
YY35782		3.06	20.3	0.13	2.4	0.054	2.51	52.3	38.3	0.66	146	0.74	0.69	8.9	19.9	560
YY35783		3.21	21.0	0.15	2.6	0.060	2.59	52.9	42.3	0.71	202	0.82	0.69	9.6	21.8	510
YY35784		3.51	23.5	0.15	2.9	0.066	2.88	65.2	48.4	0.83	199	0.96	0.82	10.1	26.0	510
YY35785		3.29	23.1	0.17	2.6	0.061	2.87	78.7	44.5	0.78	200	0.84	0.73	9.2	31.0	540
YY35786		2.68	17.90	0.14	2.1	0.052	2.38	54.6	32.9	0.60	291	0.89	0.53	7.2	36.4	730
YY35787		3.69	28.8	0.16	3.2	0.077	3.67	65.6	49.8	0.86	311	1.05	0.76	10.7	19.2	440
YY35788		3.47	25.3	0.14	2.5	0.068	3.30	54.2	46.3	0.83	208	0.96	0.67	8.6	23.9	490
YY35789		4.09	28.0	0.17	3.4	0.076	3.62	77.9	52.2	0.93	192	1.08	0.77	9.9	20.8	420
YY35790		2.98	18.60	0.14	2.1	0.051	2.50	56.4	34.7	0.65	285	0.64	0.52	7.3	24.6	560
YY35791		3.86	28.1	0.15	3.0	0.080	3.50	62.8	52.5	0.89	318	0.81	0.74	11.2	20.5	510
YY35792		3.36	24.2	0.17	2.7	0.063	3.23	61.7	44.5	0.84	174	0.72	0.70	9.3	22.3	470
YY35793		3.32	25.1	0.14	2.4	0.067	3.37	48.8	42.2	0.81	191	0.75	0.62	9.4	22.9	530
YY35794		3.88	27.5	0.18	2.9	0.072	3.57	70.0	48.9	0.89	179	0.87	0.73	10.1	19.9	470
YY35795		2.93	24.2	0.17	2.9	0.065	3.11	68.3	42.7	0.81	163	0.60	0.75	10.2	18.1	430



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Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	
		Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U
		ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
YY35756		28.4	201	<0.002	0.03	0.91	19.2	<1	3.5	169.0	0.81	0.06	19.85	0.333	1.17	4.4
YY35757		33.7	222	<0.002	0.02	0.88	20.8	1	3.8	160.0	0.91	0.06	22.6	0.337	1.31	4.1
YY35758		26.3	166.0	<0.002	0.02	1.09	16.0	1	2.9	146.5	0.75	0.06	17.95	0.325	0.99	3.3
YY35759		35.2	150.5	<0.002	0.02	1.06	15.1	1	2.6	143.0	0.70	0.06	22.6	0.314	0.90	4.8
YY35760		32.9	188.0	<0.002	0.02	0.69	18.6	<1	3.2	148.0	0.80	0.06	20.9	0.328	1.10	3.8
YY35761		29.1	182.5	<0.002	0.06	0.60	17.7	1	3.1	149.5	0.85	<0.05	19.10	0.346	1.08	3.9
YY35762		31.5	181.5	<0.002	0.02	0.82	17.5	1	3.1	158.0	0.76	0.05	25.9	0.323	1.05	4.9
YY35763		29.1	190.5	<0.002	0.02	0.74	17.6	<1	3.2	147.5	0.73	0.06	20.4	0.308	1.12	3.9
YY35764		24.7	162.0	<0.002	0.01	0.83	15.5	<1	2.7	137.5	0.69	<0.05	21.2	0.299	0.95	3.5
YY35765		32.0	204	<0.002	0.02	0.77	19.3	<1	3.5	157.5	0.79	0.05	20.6	0.331	1.19	4.4
YY35766		36.4	211	<0.002	0.03	0.90	19.5	1	3.4	161.5	0.77	<0.05	24.6	0.328	1.24	5.8
YY35767		36.4	199.5	<0.002	0.03	0.77	19.5	<1	3.4	156.5	0.77	0.05	24.2	0.321	1.20	4.9
YY35768		31.0	159.0	<0.002	0.01	1.13	15.4	1	2.7	142.0	0.64	0.06	21.6	0.280	0.93	3.7
YY35769		31.9	205	<0.002	0.02	0.59	18.8	<1	3.3	156.5	0.79	<0.05	21.8	0.328	1.20	3.8
YY35770		33.1	204	<0.002	0.03	0.69	19.8	<1	3.3	156.5	0.75	0.05	20.5	0.327	1.22	4.0
YY35771		33.9	209	<0.002	0.04	0.72	20.1	1	3.5	162.0	0.79	<0.05	23.1	0.346	1.21	4.6
YY35772		32.2	178.0	0.002	0.03	0.70	16.3	<1	3.0	142.5	0.73	0.05	22.0	0.320	1.01	4.0
YY35773		29.1	199.0	<0.002	0.04	0.70	18.7	<1	3.3	155.0	0.80	0.05	19.65	0.353	1.16	4.4
YY35774		34.6	209	<0.002	0.03	0.69	19.5	1	3.5	156.5	0.83	<0.05	22.7	0.354	1.19	4.7
YY35775		30.9	204	<0.002	0.04	0.58	18.3	<1	3.3	158.5	0.78	<0.05	21.8	0.330	1.17	4.3
YY35776		30.4	223	<0.002	0.03	0.57	20.1	1	3.8	165.0	0.85	0.05	20.4	0.346	1.32	4.2
YY35777		26.7	191.0	<0.002	0.04	0.60	17.3	1	3.1	151.0	0.73	<0.05	18.35	0.318	1.11	3.6
YY35778		34.4	236	<0.002	0.04	0.50	20.9	<1	3.8	167.0	0.87	<0.05	20.2	0.373	1.37	3.9
YY35779		31.3	214	<0.002	0.03	0.53	19.8	<1	3.5	157.0	0.80	0.05	25.2	0.339	1.26	4.6
YY35780		31.4	220	0.002	0.04	0.47	19.6	1	3.4	162.5	0.87	<0.05	20.3	0.369	1.25	4.1
YY35781		32.0	119.5	<0.002	0.16	0.45	11.5	1	1.9	103.5	0.46	0.07	17.60	0.213	0.71	4.4
YY35782		21.9	135.0	<0.002	0.08	0.43	12.6	<1	2.2	120.0	0.63	<0.05	14.65	0.271	0.80	3.1
YY35783		25.1	138.5	<0.002	0.08	0.55	13.2	1	2.3	125.0	0.66	0.05	16.35	0.284	0.80	3.3
YY35784		23.0	150.5	<0.002	0.03	0.67	14.0	<1	2.5	132.5	0.69	0.05	17.60	0.300	0.86	3.4
YY35785		22.6	151.5	0.002	0.08	0.57	14.1	<1	2.5	135.5	0.65	0.05	17.45	0.280	0.89	4.3
YY35786		22.3	126.5	<0.002	0.08	0.48	11.9	<1	1.9	114.0	0.51	<0.05	15.65	0.220	0.70	3.2
YY35787		25.8	197.0	0.002	0.03	0.56	17.6	<1	3.1	149.5	0.74	0.06	19.00	0.315	1.12	3.5
YY35788		24.9	176.5	<0.002	0.05	0.50	15.9	1	2.7	136.5	0.60	<0.05	16.40	0.266	0.99	3.5
YY35789		29.7	185.5	<0.002	0.04	0.57	17.0	<1	3.1	145.5	0.69	0.05	22.4	0.300	1.08	3.8
YY35790		24.2	130.5	<0.002	0.09	0.48	12.2	<1	2.0	114.0	0.53	<0.05	15.65	0.227	0.72	4.9
YY35791		29.1	188.5	<0.002	0.04	0.53	17.1	<1	3.1	147.5	0.78	0.05	19.45	0.332	1.10	3.9
YY35792		24.1	172.5	<0.002	0.06	0.46	15.4	1	2.7	137.0	0.68	<0.05	16.15	0.286	0.95	3.5
YY35793		26.1	177.5	0.002	0.07	0.55	15.7	1	2.8	134.5	0.67	<0.05	15.75	0.288	0.96	3.5
YY35794		23.7	189.0	<0.002	0.06	0.55	16.9	<1	3.0	144.5	0.71	<0.05	18.30	0.304	1.03	4.3
YY35795		17.0	167.0	<0.002	0.05	0.42	15.0	<1	2.7	130.0	0.74	<0.05	15.65	0.300	0.92	3.9



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**CERTIFICATE OF ANALYSIS WH21172435**

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	
		V	W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho	Lu	Nd	Pr	Sm	Tb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5	0.05	0.03	0.03	0.05	0.01	0.01	0.1	0.03	0.03	0.01
YY35756		118	1.9	10.4	75	119.0	2.63	1.13	1.67	5.42	0.42	0.23	52.8	14.25	8.50	0.63
YY35757		131	1.6	8.5	99	127.5	2.64	0.96	1.87	6.07	0.37	0.21	56.4	15.20	9.29	0.68
YY35758		119	1.3	10.5	80	108.0	2.62	1.07	1.60	5.59	0.41	0.22	54.8	15.45	9.42	0.64
YY35759		121	1.2	12.9	94	106.0	3.19	1.32	1.71	6.13	0.50	0.24	56.6	15.95	9.80	0.73
YY35760		125	1.4	9.3	85	117.5	2.63	1.03	1.67	5.69	0.39	0.21	55.3	15.35	9.51	0.67
YY35761		121	1.4	8.6	80	108.0	2.41	0.95	1.62	5.28	0.36	0.20	53.6	14.90	9.17	0.62
YY35762		124	1.2	12.0	99	119.5	3.32	1.29	2.05	7.10	0.49	0.24	68.4	18.90	11.80	0.82
YY35763		122	1.3	8.6	84	115.5	2.52	0.95	1.71	5.72	0.36	0.20	56.8	15.75	9.82	0.65
YY35764		111	1.2	9.6	88	110.5	2.74	1.03	1.75	6.09	0.39	0.20	60.0	16.80	10.25	0.70
YY35765		131	1.5	8.8	89	123.0	2.64	0.99	1.71	5.91	0.38	0.21	56.6	15.55	9.99	0.67
YY35766		123	1.5	12.7	95	117.5	3.57	1.34	1.93	7.09	0.53	0.27	63.7	17.35	10.85	0.84
YY35767		128	1.4	9.8	95	122.5	3.06	1.09	2.08	7.17	0.43	0.22	66.5	18.40	11.80	0.79
YY35768		110	1.1	11.0	102	108.0	2.98	1.18	1.66	5.94	0.46	0.21	56.3	15.75	9.72	0.69
YY35769		125	1.3	8.8	87	117.5	2.74	0.98	1.82	6.33	0.38	0.20	62.1	17.30	10.65	0.71
YY35770		129	1.3	8.4	91	115.5	2.56	0.93	1.76	6.03	0.37	0.20	57.6	15.95	10.05	0.68
YY35771		134	1.4	9.4	96	126.5	2.79	1.04	1.80	6.27	0.40	0.22	58.8	16.35	10.25	0.74
YY35772		117	1.3	9.0	80	114.0	2.62	0.98	1.71	5.87	0.38	0.20	57.8	16.10	9.88	0.67
YY35773		128	1.4	9.5	87	111.0	2.68	1.00	1.63	5.66	0.40	0.21	53.1	14.90	9.23	0.65
YY35774		129	1.5	9.5	93	121.5	2.82	1.03	1.78	6.15	0.41	0.22	58.5	16.30	10.25	0.71
YY35775		120	1.3	9.6	84	114.0	2.83	1.02	1.79	6.17	0.40	0.21	60.2	16.85	10.50	0.72
YY35776		129	1.4	9.2	86	114.0	2.74	1.00	1.67	5.91	0.40	0.21	55.7	15.35	9.57	0.69
YY35777		117	1.3	8.8	76	108.5	2.48	0.95	1.57	5.47	0.36	0.20	52.8	14.85	9.04	0.63
YY35778		130	1.6	8.0	81	115.0	2.33	0.89	1.45	5.05	0.33	0.20	47.2	13.30	8.42	0.59
YY35779		126	1.4	9.5	91	124.5	3.23	1.02	2.26	7.85	0.42	0.21	78.4	21.6	13.45	0.88
YY35780		127	1.5	8.5	80	111.5	2.73	0.96	1.75	6.00	0.37	0.20	57.1	16.10	9.82	0.71
YY35781		79	0.8	9.7	48	66.4	2.47	0.94	1.17	4.30	0.37	0.16	37.1	10.55	6.45	0.55
YY35782		94	1.1	8.3	56	84.0	2.11	0.85	1.27	4.38	0.32	0.16	43.0	12.25	7.37	0.52
YY35783		95	1.1	8.3	65	87.6	2.19	0.88	1.29	4.50	0.33	0.16	43.4	12.25	7.30	0.53
YY35784		107	1.2	10.0	80	98.4	2.68	1.04	1.51	5.24	0.41	0.19	52.8	14.95	8.95	0.63
YY35785		99	1.1	12.6	68	91.1	3.35	1.23	1.77	6.55	0.51	0.21	60.5	17.30	10.15	0.78
YY35786		76	0.9	10.0	63	72.9	2.48	0.95	1.34	4.89	0.38	0.17	45.1	12.80	7.78	0.58
YY35787		116	1.4	8.6	76	110.0	2.55	0.95	1.66	5.66	0.37	0.20	55.5	15.55	9.47	0.65
YY35788		104	1.1	7.9	76	88.0	2.16	0.83	1.33	4.56	0.32	0.16	44.5	12.55	7.76	0.54
YY35789		115	1.3	9.0	82	114.5	2.84	0.98	1.93	6.73	0.38	0.20	67.1	18.60	11.55	0.75
YY35790		80	0.9	9.4	60	71.8	2.64	0.98	1.42	5.12	0.39	0.17	47.0	13.35	7.99	0.62
YY35791		118	1.3	8.7	77	105.5	2.43	0.93	1.56	5.44	0.35	0.19	52.9	14.70	9.17	0.62
YY35792		106	1.1	8.6	71	93.8	2.41	0.93	1.56	5.49	0.36	0.19	51.3	14.75	9.01	0.64
YY35793		104	1.2	8.0	70	84.8	2.17	0.83	1.25	4.40	0.32	0.16	38.9	11.30	7.05	0.53
YY35794		114	1.2	8.7	77	104.0	2.63	0.97	1.76	6.10	0.37	0.19	59.1	16.95	10.60	0.71
YY35795		99	1.1	8.6	69	102.5	2.60	0.92	1.74	6.00	0.37	0.19	57.2	16.35	10.20	0.69



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<b>CERTIFICATE OF ANALYSIS WH21172435</b>
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Sample Description	Method Analyte Units LOD	ME-MS61r Tm ppm 0.01	ME-MS61r Yb ppm 0.03
YY35756		0.18	1.35
YY35757		0.15	1.20
YY35758		0.18	1.29
YY35759		0.20	1.42
YY35760		0.17	1.23
YY35761		0.16	1.17
YY35762		0.20	1.47
YY35763		0.16	1.20
YY35764		0.17	1.25
YY35765		0.16	1.25
YY35766		0.22	1.60
YY35767		0.18	1.30
YY35768		0.19	1.32
YY35769		0.16	1.19
YY35770		0.16	1.17
YY35771		0.18	1.31
YY35772		0.16	1.20
YY35773		0.17	1.23
YY35774		0.17	1.29
YY35775		0.17	1.24
YY35776		0.16	1.24
YY35777		0.15	1.17
YY35778		0.16	1.16
YY35779		0.17	1.26
YY35780		0.16	1.19
YY35781		0.14	1.00
YY35782		0.13	0.99
YY35783		0.14	1.03
YY35784		0.16	1.17
YY35785		0.19	1.29
YY35786		0.15	1.09
YY35787		0.16	1.15
YY35788		0.13	0.95
YY35789		0.16	1.19
YY35790		0.14	1.05
YY35791		0.15	1.14
YY35792		0.15	1.08
YY35793		0.13	0.97
YY35794		0.15	1.10
YY35795		0.15	1.13



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**CERTIFICATE OF ANALYSIS WH21172435**

Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	Au-ICP21 Au ppm	ME-MS61r Ag ppm	ME-MS61r Al %	ME-MS61r As ppm	ME-MS61r Ba ppm	ME-MS61r Be ppm	ME-MS61r Bi ppm	ME-MS61r Ca %	ME-MS61r Cd ppm	ME-MS61r Ce ppm	ME-MS61r Co ppm	ME-MS61r Cr ppm	ME-MS61r Cs ppm	ME-MS61r Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
YY35796		0.04	NSS	0.11	8.51	5.4	790	2.28	0.21	0.19	0.07	142.5	5.8	75	5.60	16.5
YY35797		0.08	0.005	0.12	9.54	7.5	930	2.69	0.34	0.17	0.05	116.0	7.3	85	6.54	25.9
YY35798		0.13	0.003	0.23	7.11	11.7	680	1.95	0.44	0.26	0.09	79.1	8.5	66	5.02	42.5
YY35799		0.12	0.002	0.06	10.50	6.6	1000	3.10	0.33	0.15	0.04	118.0	7.4	91	7.39	21.8
YY35800		0.07	0.001	0.11	10.80	8.2	1060	3.26	0.35	0.11	0.02	121.5	7.7	98	7.80	19.2





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**CERTIFICATE OF ANALYSIS WH21172435**

Sample Description	Method	Analyte	Units	LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r			
					Fe	Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
					%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
					0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
YY35796					2.92	23.1	0.18	2.8	0.060	2.98	71.8	38.2	0.79	156	0.79	0.74	9.5	16.0	460
YY35797					3.41	26.4	0.16	2.8	0.073	3.51	57.8	42.4	0.87	188	0.65	0.73	9.6	17.9	480
YY35798					3.85	18.95	0.12	2.0	0.055	2.57	39.4	29.1	0.60	169	0.86	0.41	6.3	21.4	840
YY35799					3.49	29.6	0.16	2.9	0.082	4.04	58.5	46.0	0.94	167	0.70	0.69	10.8	20.8	430
YY35800					3.76	32.0	0.18	3.2	0.087	4.30	59.4	52.3	1.04	184	0.93	0.77	12.0	17.8	370

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**CERTIFICATE OF ANALYSIS WH21172435**

Sample Description	Method Analyte Units LOD	ME-MS61r Pb ppm 0.5	ME-MS61r Rb ppm 0.1	ME-MS61r Re ppm 0.002	ME-MS61r S % 0.01	ME-MS61r Sb ppm 0.05	ME-MS61r Sc ppm 0.1	ME-MS61r Se ppm 1	ME-MS61r Sn ppm 0.2	ME-MS61r Sr ppm 0.2	ME-MS61r Ta ppm 0.05	ME-MS61r Te ppm 0.05	ME-MS61r Th ppm 0.01	ME-MS61r Ti % 0.005	ME-MS61r Tl ppm 0.02	ME-MS61r U ppm 0.1
YY35796		16.8	161.0	<0.002	0.05	0.39	14.0	1	2.6	129.0	0.67	<0.05	15.50	0.285	0.89	3.0
YY35797		25.0	184.0	<0.002	0.05	0.41	16.0	<1	3.0	143.0	0.70	<0.05	16.45	0.294	1.02	3.5
YY35798		39.7	136.5	<0.002	0.11	0.46	12.2	<1	2.2	108.0	0.47	<0.05	20.0	0.198	0.77	4.9
YY35799		22.1	211	<0.002	0.05	0.40	18.3	<1	3.4	152.5	0.77	<0.05	15.70	0.325	1.19	3.6
YY35800		23.6	227	<0.002	0.03	0.45	19.8	<1	3.6	162.0	0.86	<0.05	15.55	0.353	1.27	3.3



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**CERTIFICATE OF ANALYSIS WH21172435**

Sample Description	Method Analyte Units LOD	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	ME-MS61r	
		V	W	Y	Zn	Zr	Dy	Er	Eu	Gd	Ho	Lu	Nd	Pr	Sm	Tb
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		1	0.1	0.1	2	0.5	0.05	0.03	0.03	0.05	0.01	0.01	0.1	0.03	0.03	0.01
YY35796		97	1.1	7.8	68	97.0	2.41	0.84	1.67	5.83	0.33	0.18	57.8	16.75	10.20	0.65
YY35797		109	1.1	8.1	74	98.3	2.32	0.87	1.45	5.15	0.34	0.18	46.9	13.65	8.55	0.61
YY35798		78	0.8	7.4	54	68.1	2.11	0.84	1.05	3.84	0.32	0.15	30.9	8.97	5.68	0.49
YY35799		121	1.3	7.9	76	101.5	2.35	0.88	1.54	5.33	0.33	0.19	48.2	14.05	8.84	0.63
YY35800		130	1.4	8.1	87	112.0	2.47	0.88	1.64	5.70	0.35	0.20	52.0	14.70	9.43	0.65

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**CERTIFICATE WH21172430**

Project: Swan

This report is for 18 samples of Rock submitted to our lab in Whitehorse, YT, Canada on 5-JUL-2021.

The following have access to data associated with this certificate:

HEATHER BURRELL JACK MORTON	MATT DUMALA SCOTT NEWMAN	STEVE ISRAEL LIZ SMITH
--------------------------------	-----------------------------	---------------------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-21	Sample logging - ClientBarCode
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 up to 250g 85% <75 um

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS61	48 element four acid ICP-MS	
Au-ICP21	Au 30g FA ICP-AES Finish	ICP-AES

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

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

Signature:   
 Saa Traxler, General Manager, North Vancouver



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Sample Description	Method Analyte Units LOD	WEI-21 Recvd Wt. kg	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm	ME-MS61 Fe %
W795201		1.92	0.10	4.82	20.7	40	0.26	0.13	0.21	0.05	37.8	5.5	22	0.49	10.2	2.93
W795202		1.84	0.02	0.46	3.5	10	0.14	<0.01	0.55	0.04	7.62	1.9	19	0.12	1.8	1.16
W795203		1.90	0.14	4.61	15.6	360	1.17	0.51	0.07	0.07	50.4	23.0	42	2.55	42.6	3.21
W795204		1.24	0.02	1.80	1.0	50	0.17	0.09	0.04	<0.02	29.0	1.4	23	0.38	2.2	0.91
W795205		1.18	0.03	2.54	0.9	120	0.31	0.13	0.03	<0.02	33.3	9.1	21	0.69	8.8	2.40
W795206		1.29	0.03	7.34	1.0	530	1.66	0.15	0.09	0.03	59.5	10.5	48	3.42	27.7	3.53
W795207		2.00	0.05	11.95	26.5	1010	2.72	0.18	0.06	0.03	104.5	13.7	103	7.02	37.3	4.56
W795208		2.09	0.03	3.33	1.0	80	1.13	0.05	0.04	0.15	65.1	39.1	19	0.46	48.9	4.34
W795209		1.66	0.04	10.90	1.3	1000	3.35	0.31	0.12	0.04	122.5	20.3	87	7.33	77.3	4.76
W795210		1.51	0.05	3.13	4.3	190	0.58	0.09	0.05	0.03	61.3	6.9	25	1.13	7.0	1.51
W795211		1.43	0.06	9.62	7.4	890	2.79	0.23	0.04	0.02	97.7	6.5	71	5.99	20.8	3.14
W795212		1.30	0.15	5.34	5.3	450	1.46	0.63	0.13	0.05	67.1	10.7	52	2.96	47.5	4.33
W795213		1.59	0.02	2.89	0.9	30	0.16	0.06	0.93	0.09	39.3	3.0	21	0.16	7.7	1.26
W795222		2.07	0.02	12.90	0.9	1180	4.00	0.09	0.05	0.02	68.0	10.2	162	7.65	28.3	6.24
W795223		1.49	0.05	13.25	2.4	1320	4.47	0.33	0.05	<0.02	89.3	4.9	118	8.76	52.0	6.10
W795224		1.49	0.06	1.18	0.8	100	0.34	0.24	0.31	0.04	12.70	3.3	25	0.73	13.9	0.88
W795225		1.49	0.03	13.10	14.5	1390	4.20	0.08	0.05	0.04	143.0	24.2	174	9.43	75.8	5.97
W795226		1.87	0.12	11.40	1.3	1130	3.59	0.81	0.06	0.07	135.5	16.2	99	7.99	57.6	4.48



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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Ga	Ge	Hf	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P	Pb
		ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm
		0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10	0.5
W795201		7.55	0.14	1.0	0.013	0.16	17.1	37.5	0.53	376	0.25	2.65	1.7	26.4	220	13.9
W795202		0.82	0.06	0.1	0.006	0.06	3.3	14.7	0.06	267	0.16	0.09	0.2	8.2	40	1.5
W795203		13.55	0.13	1.0	0.041	1.58	23.9	23.8	0.59	271	0.38	0.14	4.2	52.1	220	35.7
W795204		3.44	0.11	0.8	0.009	0.18	12.5	4.8	0.14	117	0.21	0.99	1.8	3.0	160	10.6
W795205		7.03	0.09	1.2	0.012	0.42	14.4	17.3	0.55	175	0.20	0.49	1.2	19.9	150	11.1
W795206		19.90	0.18	2.7	0.044	2.27	28.3	31.4	0.88	238	0.25	0.78	4.4	22.0	280	13.9
W795207		37.0	0.26	3.4	0.100	4.40	45.0	49.6	1.19	142	0.36	1.13	8.7	24.4	390	19.4
W795208		3.37	0.14	1.0	0.010	0.16	27.1	17.1	0.17	1820	0.14	1.10	1.2	98.6	120	7.8
W795209		30.9	0.24	3.0	0.092	4.18	58.5	50.1	1.15	181	0.45	0.65	7.9	33.6	440	16.3
W795210		9.65	0.17	1.3	0.016	0.74	27.1	11.6	0.32	177	0.22	0.75	3.1	12.7	180	11.9
W795211		28.0	0.23	3.0	0.077	3.62	45.6	28.6	0.70	101	0.51	0.72	8.3	12.4	290	16.8
W795212		14.20	0.15	1.6	0.046	1.83	32.9	26.5	0.61	184	0.92	0.19	3.8	27.4	190	39.2
W795213		2.94	0.16	1.2	0.007	0.10	18.8	1.0	0.17	754	0.16	2.18	2.1	6.8	150	10.6
W795222		48.4	0.25	3.3	0.118	5.85	25.0	72.3	1.68	265	0.77	0.39	10.0	19.7	250	10.8
W795223		43.0	0.29	3.9	0.129	5.58	37.1	57.8	1.15	117	1.18	0.51	10.6	6.9	340	19.1
W795224		3.46	0.12	0.3	0.009	0.43	5.7	6.9	0.15	86	0.22	0.04	1.2	6.0	520	17.4
W795225		58.6	0.37	5.4	0.140	5.51	59.9	55.6	1.16	212	1.24	0.65	14.5	56.8	210	13.7
W795226		33.5	0.32	3.4	0.090	4.74	65.8	50.5	1.08	149	1.33	0.62	11.1	26.8	400	48.4





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Sample Description	Method Analyte Units LOD	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	ME-MS61	
		Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th	Ti	Tl	U	V
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1	1
W795201		7.5	<0.002	0.08	0.43	3.2	1	0.2	51.8	0.14	<0.05	8.90	0.051	0.04	1.4	19
W795202		3.4	<0.002	<0.01	0.48	0.5	1	<0.2	13.5	<0.05	<0.05	1.28	0.005	0.02	0.9	2
W795203		80.1	<0.002	0.03	0.26	6.6	1	1.5	74.4	0.29	0.06	10.35	0.133	0.42	2.8	46
W795204		10.3	<0.002	0.01	0.26	1.8	1	0.3	27.4	0.15	<0.05	7.38	0.055	0.05	0.9	13
W795205		21.9	<0.002	0.04	0.32	2.2	1	0.4	26.6	0.11	<0.05	9.13	0.040	0.12	2.2	19
W795206		114.0	<0.002	0.15	0.29	8.3	1	1.9	98.9	0.33	<0.05	15.35	0.140	0.63	3.0	57
W795207		211	<0.002	0.01	0.46	18.3	1	3.9	187.0	0.63	<0.05	22.6	0.282	1.21	3.2	122
W795208		8.3	<0.002	0.07	0.19	2.8	1	0.2	29.7	0.11	<0.05	10.10	0.039	0.06	9.7	11
W795209		218	<0.002	0.54	0.28	20.3	<1	3.4	149.0	0.59	<0.05	22.7	0.250	1.30	3.9	120
W795210		39.1	<0.002	0.04	0.38	2.9	<1	1.1	37.0	0.28	<0.05	17.75	0.101	0.21	1.8	24
W795211		183.5	<0.002	0.14	0.33	14.8	1	2.9	151.5	0.61	<0.05	15.70	0.256	1.05	2.8	95
W795212		92.9	<0.002	0.11	0.39	8.4	1	1.4	74.3	0.27	<0.05	14.25	0.124	0.52	2.5	59
W795213		4.9	<0.002	0.16	0.25	1.8	<1	0.3	65.2	0.18	<0.05	10.35	0.062	0.02	1.0	8
W795222		209	<0.002	0.06	0.31	18.0	1	5.1	190.5	0.71	<0.05	17.60	0.333	1.65	2.9	163
W795223		270	<0.002	0.20	0.39	21.0	1	4.6	209	0.75	0.05	23.3	0.320	1.73	2.8	167
W795224		23.6	<0.002	0.11	0.13	1.9	1	0.4	30.0	0.09	<0.05	1.95	0.038	0.13	0.4	14
W795225		290	0.002	0.38	0.70	23.0	1	6.0	218	1.03	<0.05	38.4	0.415	1.77	5.5	186
W795226		248	<0.002	0.83	0.86	21.8	1	3.8	161.0	0.82	0.07	23.8	0.333	1.48	3.3	144



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Sample Description	Method Analyte Units LOD	ME-MS61 W ppm	ME-MS61 Y ppm	ME-MS61 Zn ppm	ME-MS61 Zr ppm	Au-ICP21 Au ppm
		0.1	0.1	2	0.5	0.001
W795201		0.4	4.5	69	35.0	0.002
W795202		0.1	2.4	8	4.1	<0.001
W795203		0.4	6.8	64	38.0	<0.001
W795204		0.2	3.3	15	28.0	<0.001
W795205		0.2	4.3	62	41.4	<0.001
W795206		0.6	7.0	70	92.8	<0.001
W795207		0.9	7.3	115	121.5	<0.001
W795208		0.2	20.0	134	41.3	<0.001
W795209		1.1	7.0	93	103.0	<0.001
W795210		0.3	4.6	31	46.9	<0.001
W795211		0.8	6.3	62	104.5	<0.001
W795212		0.5	7.0	64	59.0	<0.001
W795213		0.4	5.5	6	48.0	<0.001
W795222		1.5	5.0	143	111.5	<0.001
W795223		1.3	5.4	101	139.0	0.002
W795224		0.1	2.2	13	11.0	<0.001
W795225		1.7	10.4	124	191.0	0.030
W795226		1.3	6.9	89	113.5	0.003



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	<b>CERTIFICATE COMMENTS</b>										
Applies to Method:	<p style="text-align: center;"><b>ANALYTICAL COMMENTS</b></p> <p>REEs may not be totally soluble in this method.            ME-MS61</p>										
Applies to Method:	<p style="text-align: center;"><b>LABORATORY ADDRESSES</b></p> <p>Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">CRU-31</td> <td style="width: 33%;">CRU-QC</td> <td style="width: 33%;">LOG-21</td> <td style="width: 15%;"></td> <td style="width: 15%;">PUL-31</td> </tr> <tr> <td>PUL-QC</td> <td>SPL-21</td> <td>WEI-21</td> <td></td> <td></td> </tr> </table>	CRU-31	CRU-QC	LOG-21		PUL-31	PUL-QC	SPL-21	WEI-21		
CRU-31	CRU-QC	LOG-21		PUL-31							
PUL-QC	SPL-21	WEI-21									
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au-ICP21</td> <td style="width: 33%;">ME-MS61</td> <td style="width: 33%;"></td> <td style="width: 15%;"></td> </tr> </table>	Au-ICP21	ME-MS61								
Au-ICP21	ME-MS61										