2019 FINAL TECHNICAL REPORT WHITEHORSE COPPER BELT PROJECT - COWLEY PARK

WHITEHORSE AREA; NTS 105D 10

Centered at: Latitude 60° 30' 29.087" N, and Longitude 134° 53' 29.088" W
Mining District: Whitehorse
Work performed on Quartz Claims SUE 1 – 4 (75653 – 75656)
From: January 1 2019 to May 31, 2019

Prepared for Lobo Del Norte Ltd.
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Table of Contents

List of Figures..... 2

List of Tables 2

1.0 Introduction 3

2.0 Project Location..... 3

3.0 Whitehorse Copper Belt General Geology……5

4.0 Cowley Park Geology & Mineralization 7

5.0 Geophysical Properties……..8

6.0 Previous Work History……9

7.0 Recent History 10

7.1 2018 Drilling Program……11

7.2 Highlights of 2018 Drill Program……13

8.0 2019 Drilling Program..... 15

9.0 Sample Preparation & Assay Procedures..... 19

10.0 Expenditures……...19

11.0 2020 Exploration Recommendations……..……20

12.0 Statement of Qualifications……..21

13.0 References……22

Appendix……i

List of Figures

		Page
Figure 1	Project Location	4
Figure 2	Claim Map	5
Figure 3	Regional Geology	7
Figure 4	Residual Magnetics	9
Figure 5	Historic Cross Section of Proposed Open Pit	10
Figure 6	2018 Drill Hole Locations	12
Figure 7	18-CP-03 Mineralization	13
Figure 8	18-CP-06 Mineralization	14
Figure 9	2019 Drill Hole Locations	16
Figure 10	19-CP-08 Mineralization	17
Figure 11	19-CP-02 Mineralization	17
Figure 12	19-CP-01 Mineralization with Massive Bornite	18
Figure 13	19-CP-01 Mineralization	18

List of Tables

		Page
Table 1	Claim Information	4
Table 2	2018 Drilling Locations	11
Table 3	18-CP-03 Significant Intercepts	13
Table 4	18-CP-06 Significant Intercepts	14
Table 5	18-CP-14 Significant Intercepts	14
Table 6	18-CP-09 Significant Intercepts	14
Table 7	2019 Drill Locations	15
Table 8	19-CP-08 Significant Intercepts	17
Table 9	19-CP-02 Significant Intercepts	17
Table 10	2019 Expenditures	19

1.0 Introduction

The Cowley Deposit is largest open-pit mineable reserve in the Whitehorse Copper Belt, located at the southern boundary of Whitehorse city limits in the Yukon Territory (MacKay et al., 1993). The property is road accessible, situated 2km from the Klondike Highway. The Whitehorse Copper Belt has historically been the most significant copper producer in the Territory with over 10Mt grading approximately 1.5% Cu with significant gold and silver credits in several deposits (Watson, 1984). The skarn mineralization in the Whitehorse Copper Belt was first noted in 1897 with surface and underground hand mining occurring into the early 1900s; primarily on the War Eagle and Copper King sites. From 1967 to 1971 Whitehorse Copper Mines surface mined several deposits including the Arctic Chief, Little Chief and Keewenaw deposits through open pit methods. From 1972 until its closure in 1982 Whitehorse Copper Mines Ltd. operated year-round through underground mining. The Whitehorse Copper Mines provided steady work to locals for decades and close proximity to Whitehorse allowed for local businesses to benefit, stabilizing the Yukon's economy. Over 30 known deposits are comprised within the 35 km by 5 km northwesterly trending arc of predominantly skarn-related mineralization which includes the Cowley Deposit (Heon 2004, Tenney 1981).

The Cowley Deposit was first discovered in the early 1900s and explored with minor underground work. Drilling during the 60s had loosely defined the Main Zone, in the 1970s more-thorough drilling was conducted, culminating to 125 holes and 11,500 meters of core (Hureau, 1981). The Cowley Deposit was at the feasibility stage prior to shutdown of Whitehorse Copper Mines in 1982, due to a declining economy and copper prices. Approximately 884,000 tonnes of unmined ore at the Main Zone was calculated grading 1.04% Cu, 3.77 g/t Ag, 0.21 g/t Au, and 0.066% MoS2; with 668,000 tonnes of ore calculated in the South Zone at 0.9% Cu (Tenney, 1981; Watson, 1984).

The focus of this assessment report is on recent drilling on the Sue claims (1 -4) as shown in figures 1 & 2. Drill core from drilling during the spring and summer of 2018 was logged and assayed during the winter of 2019.

2.0 Project Location

The Whitehorse Copper Belt Property is located in southern Yukon, within the Whitehorse Mining District and NTS map sheet 105D 10 (Figure 1 & 2). The Property is centered on Latitude of 60° 30' 29.087" N, and Longitude 134° 53' 29.088" W. The project lies in and outside Whitehorse city limits. The property has access trails and roads throughout the project area. The Alaska Highway and power runs through the property. Nearby infrastructure makes for cost-effective exploration on the property and good feasibility. The White Pass Railway is in the project area with a line

extending to the deep-water port located approximately 155 km south in Skagway, Alaska. Claims are in good standing held 100% by Lobo Del Norte.

Gravel road access exists within 2 km off the Alaska Highway to all of the deposits as part of the historical exploration legacy from the 1960's through 1980's. These roads were utilized during the 2019 exploration program conducted by B. Ernewein primarily at the Cowley Copper Deposit.

Figure 1: *Project Location*

Topography in the immediate area of the claims comprises of gently rolling hills with well developed drainages. Locally, elevations range from 2400 ft to 3300 ft, however, all of the claims are at approximately 2600 ft. Several small lakes and water filled open pits are located nearby. The region is lightly forested having seen significant historical logging and subsequent re-growth of small black spruce, willow and alder. Overburden in the area ranges up to around 10 m but outcrop is visible in a number of areas. Due to the proximity to Whitehorse, costs of drilling operations are reduced significantly in comparison to typical exploration projects of the Yukon. Additionally, the project offers employment to the community without having to build semi-permanent camp structures to accommodate employees.

Table 1*: Claim Information*

Claim Name	Claim Number	Claim Owner	Grant Number	Staking Date	Claim Expiry Date	Status	NTS Map Number	District
Sue	1	Lobo Del Norte Ltd. 100%	75653	1961-04-23	2027-01-01	Active	105D10	Whitehorse
Sue	2	Lobo Del Norte Ltd. 100%	75654	1961-04-23	2027-01-01	Active	105D10	Whitehorse
Sue	3	Lobo Del Norte Ltd. 100%	75655	1961-04-23	2027-01-01	Active	105D10	Whitehorse
Sue	4	Lobo Del Norte Ltd. 100%	75656	1961-04-23	2027-01-01	Active	105D10	Whitehorse

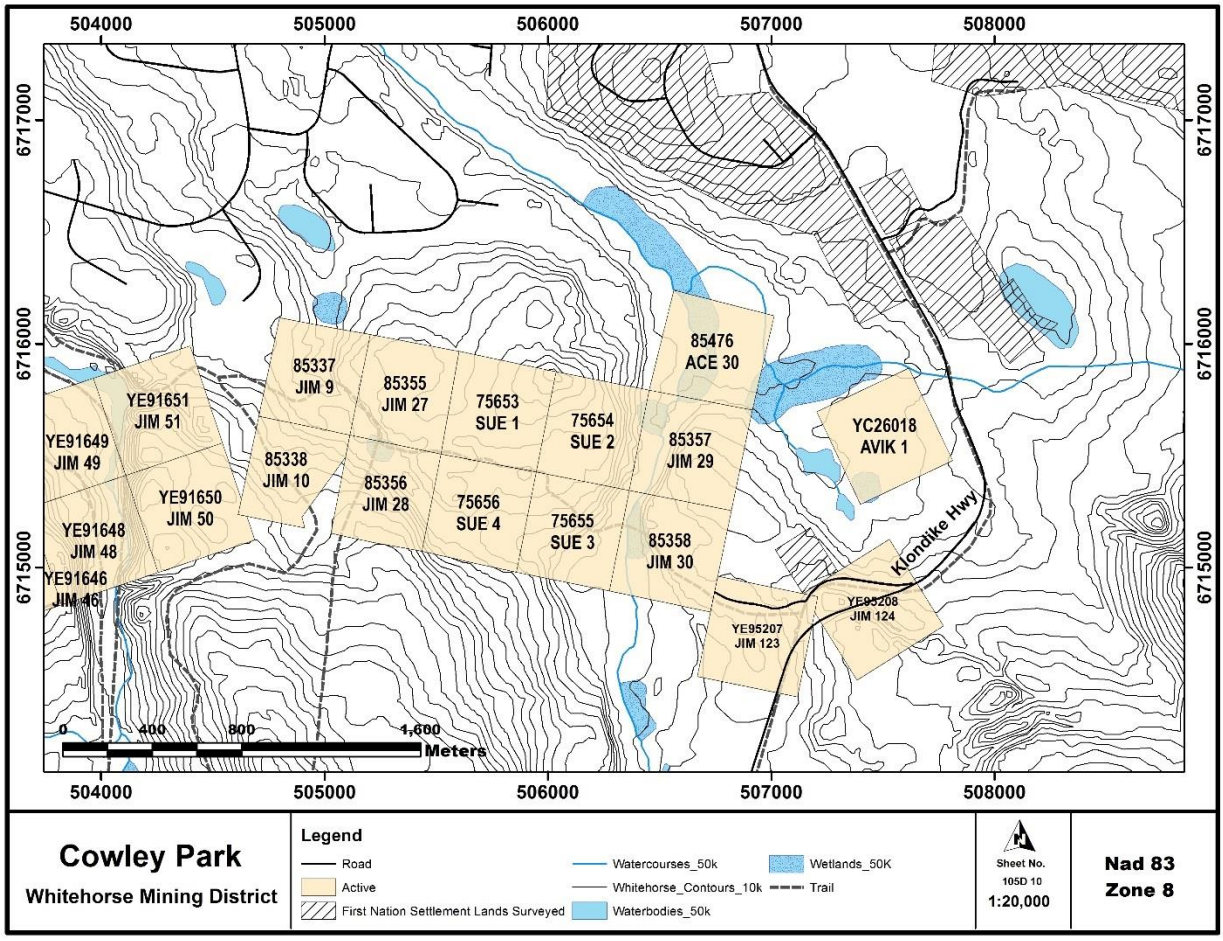

Figure 2: *Claim map; Sue 1-4 constitute the focus of this assessment and the main target of the area.*

3.0 Whitehorse Copper Belt General Geology

The Whitehorse Copper Belt lies withing the Whitehorse Trough, a northwest trending island arc complex of upper Paleozoic to Jurassic age. Within a 32km long, northwest trending belt, copper bearing skarns occur mainly in upper Triassic Lewes River Group carbonate and clastic rocks, along the west contact of the Cretaceous Whitehorse Batholith. The Whitehorse Batholith is one of a suite of calc-alkaline intrusions (Coast Plutonic Complex) which were emplaced during formation and probable accretion of a Permian to Jurassic island arc terrane (the lntermontane Belt). Although the main mass of the Whitehorse Batholith is relatively unaltered, Morrison (1981) describes quartz-kspar-bornite- chalcopyrite veins which locally cut the diorite margin of the batholith, which has also been observed at Cowley Park.

The carbonate units are both dolomitic and calcareous. In general, dolomitic units host magnetite-serpentine skarns, with red to brown garnet, and bornite in greater quantities than

chalcopyrite. Calcareous units host magnetite-free wollastonite skarns with beige to yellow garnet, and chalcopyrite in greater quantities than bornite and molybdenite. (Watson, 1984)

Skarn deposits within the Whitehorse Copper Belt are considered exoskarns that formed within 150 m of the mid Cretaceous calc-alkaline Whitehorse Batholith contact; however, a number of endoskarns are documented within the intrusion as well. Intrusive rocks are largely diorite to granodiorite in composition and have locally intruded upper Triassic limestone and calcareous metasediments of the Lewes River Group. As noted by the Yukon Geological Survey, most skarn development occurs as lensoid or tabular bodies coincident with bedding, and range in geometry from steeply dipping to flat lying bodies.

Two main types of skarn deposits are present:

1. Iron-rich, in which copper occurs with magnetite, serpentine, specularite, talc, chlorite and occasional pyrrhotite and pyrite.
2. Iron-poor, which consist of a wide variety of contact minerals.

Bornite and chalcopyrite are the main copper minerals although chrysocolla, native copper, chalcocite and secondary minerals are present in small amounts. The copper minerals occur as disseminations, blebs, pods and stringers that clearly postdate the skarn minerals. Bornite predominates in the iron-rich skarns and is slightly more abundant than chalcopyrite in the iron-poor skarns. Silver grades are generally proportional to the copper grades while gold tends to be more erratically distributed in the system. Current logging at Cowley Park is focused on both extending known mineralization and understanding and controls alteration may have on gold and silver distribution.

The southern end of the Copper Belt is occupied by 10 main showings: Keewenaw, Gem, Kodiak Cub, Grizzly Cub, Black Cub North, Black Cub South, Brown Cub, Railway, Sue and Cowley Park (Figure 6). Of those, the Keewenaw, Gem, Black Cub South, and Cowley Park are the most significant.

In a review of the Whitehorse Copper Belt, Heon (2004) briefly summarizes those latter four. "*The Keewenaw showing is the only official endoskarn of the Whitehorse Copper Belt. Consequently, the mineralization that is hosted predominantly within the host intrusive (endoskarn) shows different ore mineralogy than other showings. Copper is hosted primarily in bornite, chalcopyrite, chalcocite and covellite with minor malachite and chrysocolla. Native gold has also been reported from the Keewenaw deposit and silver and molybdenum have also been noted as credits for the ore. Mineralization at the Gem showing is in the form of chalcopyrite and valleriite with associated magnetite within a serpentine-garnet- phlogopite dominant skarn assemblage. Black Cub South is a magnetite-serpentine skarn and ore*

mineralogy here is similar to the Gem deposit. However, it also includes bornite, native copper, and cuprite as a copper mineral and actinolite as one of the skarn mineral phases."

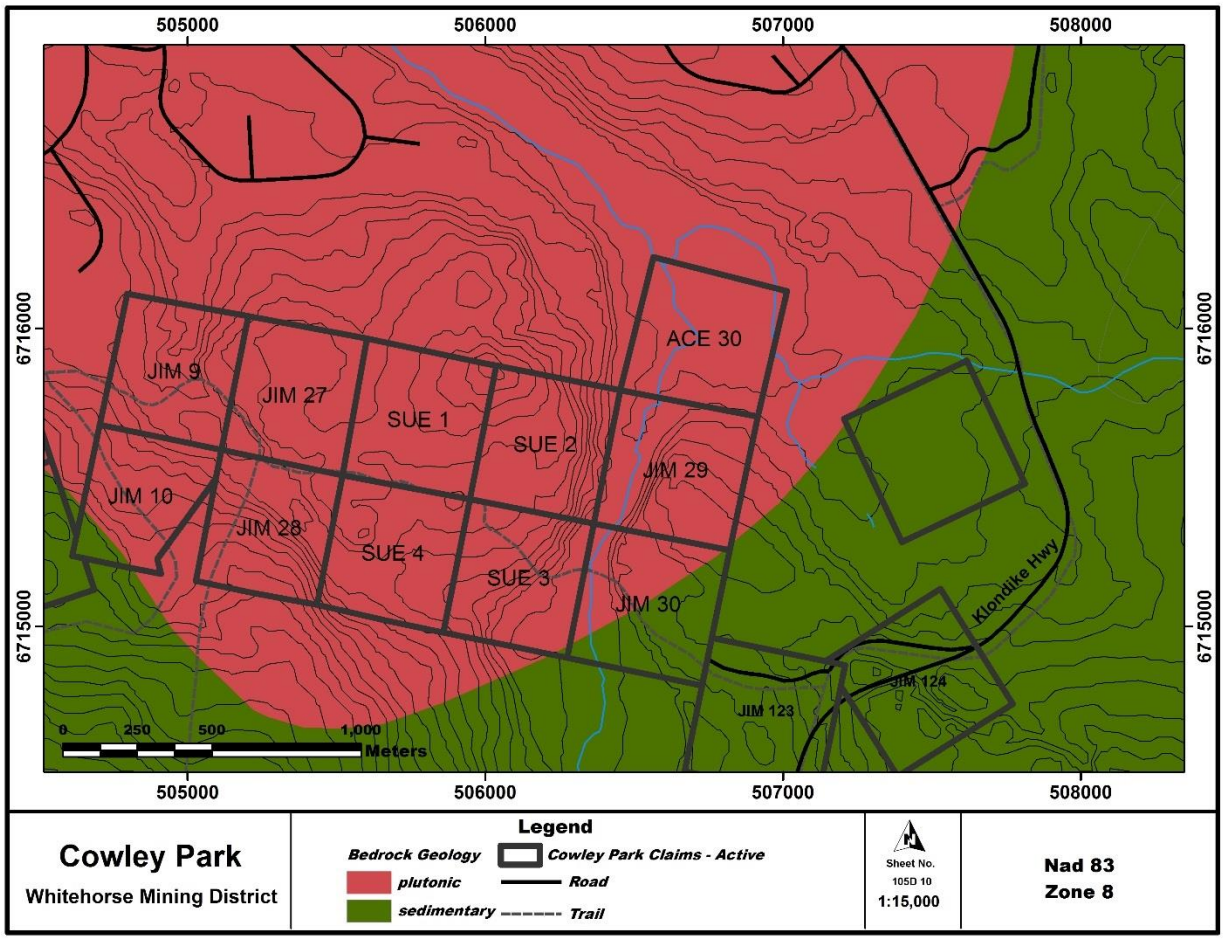

Figure 3: *Regional Geology*

4.0 Cowley Park Geology & Mineralization

At the Cowley deposit, skarning occurs variably along the contacts and through an extensive limestone lens encompassed by Cretaceous intrusive rocks of predominantly granodioritic to dioritic composition of the Whitehorse Plutonic Suite. The unit intrudes Triassic to Jurassic Lewes River Group clastic and carbonate meta-sedimentary units of the Whitehorse trough (Figure 3). The sequence has been regionally folded and cross cut by younger Tertiary volcanism. Quaternary glaciofluvial till forms veneer obscuring bedrock geology. Widespread skarning in the limestone lens is characterized assemblages of garnet, diopside, actinolite, tremolite/wollastonite, and epidote. Mineralized zones in skarnified horizons contain disseminated to massive sections of pyrite, chalcopyrite, bornite, magnetite and lesser molybdenite.

Investigating core has proven that there is a structural and morphological control to skarn mineralization. Increased flow of intrusive related fluids is correlated to increased metasomatism of the carbonate and evident along contacts, structures, and other sites more prone to dilation. The limestone lens is a sedimentary sequence with observable bedding where skarnification and mineralization is focused along bedding planes and in more permeable horizons. Mineralization is characteristically defined in zones dominated by either magnetite,

chalcopyrite, pyrite, or molybdenum with other constituents in lesser amounts as semi massive to fine interstitial disseminations. Mineralization is also observed in association with zones where skarn mineral abundances vary from dominated by garnet, diopside, tremolite or wollastonite and likely signify changes in overall fluid chemistry as the fluid reacts more with the host rock. Gold and silver values correlate with copper mineralization at Cowley Park.

At Cowley Park, the carbonate host rocks are deformed into a syncline and exist as a roof pendant suspended in the intrusive that has dimensions of approximately 1,200 m by 400 m. The overall shape of the pendant is keel-like and skarning is found along the lengths of the contact. Figure 5 shows the rough geology of Cowley Park visualizing the roof pendant geometry and the outline of the pit design proposed in 1979. Interestingly, Tenney (1981) also notes mineralization within with intrusion and an aplite plug in addition to within the skarn zones. Some mineralization has been observed within the intrusive granodiorite although grades are much lower than within skarn zones.

5.0 Geophysical Properties

The geophysical properties of Cowley Park indicate magnetic responses which correlate well with other known deposits of the Whitehorse copper belt. Figure 5 shows the “Sue” claims situated on a magnetic high which extends northwest into the historic mines closer to the municipality of Whitehorse. While ground based magnetic and IP surveys have been conducted west of the Sue claims in 2008 (Wengzenowski, 2014), no detailed ground magnetics survey has been conducted on the Sue claims. It is recommended that ground magnetics surveys should be conducted throughout the Sue claims with priority being given to the northern and eastern margins of the claims to better understand the magnetic responses of recently discovered mineralized extensions and where further extensions may occur.

The valley situated north of drill holes 19-CP-08 is an area of interest for the possibility of a major structure which may act as a conduit for mineralization in the area. Further geophysical surveys may be able to ground truth this area for the presence of any previously unknown structures.

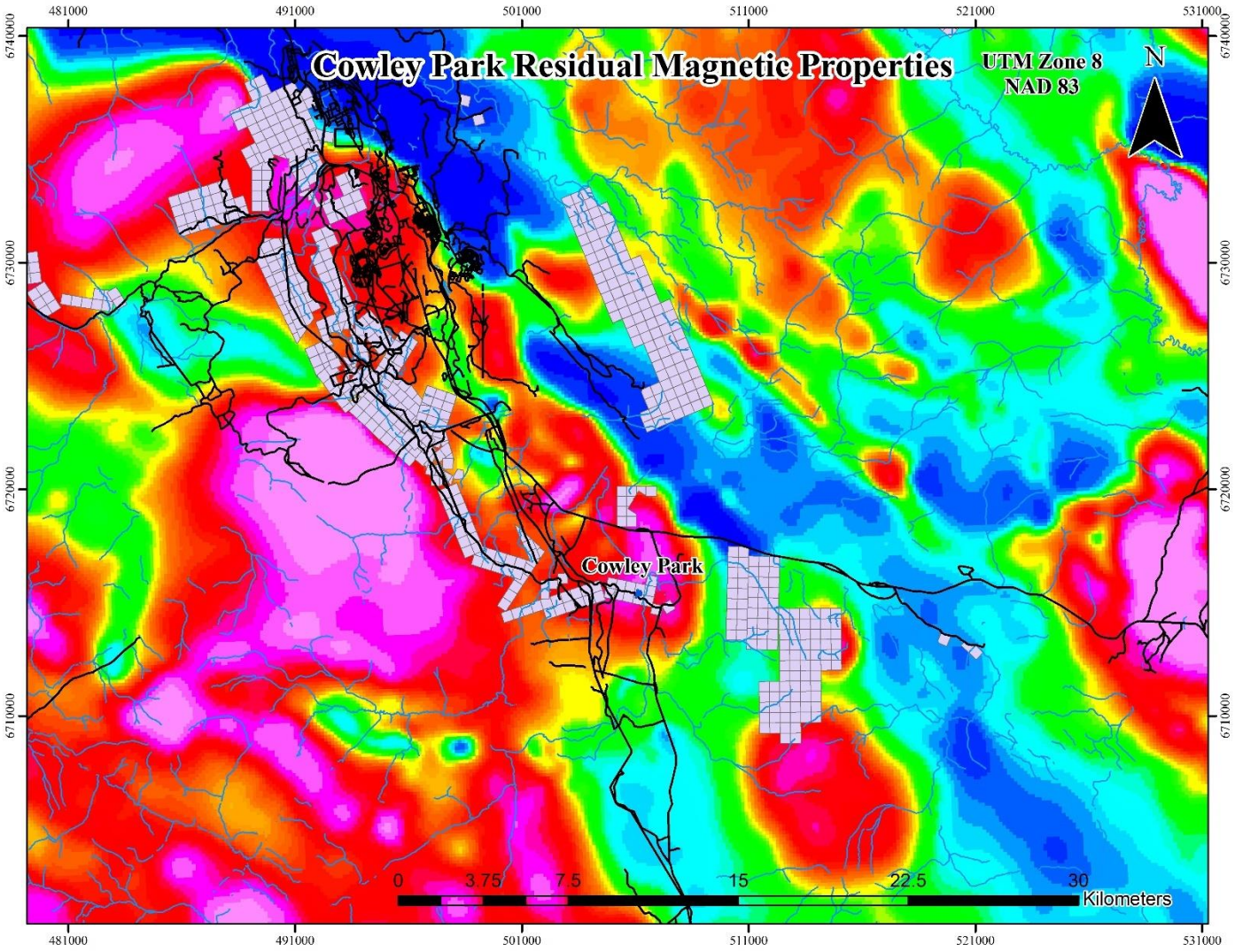

Figure 4: *Residual Magnetics; Magnetic response of Cowley Park shows consistency with other deposits of the Whitehorse Copper Belt. Further ground magnetic surveys are recommended for determining future exploration targets.*

6.0 Previous Work History

The Cowley Park property was first explored in the early 1900s with minor underground work. The property received little work until the mid sixties with the advent of the Whitehorse Copper Mines and open pit mining through the Whitehorse Copper Belt. Ground based magnetic and induced polarization (IP) was conducted through the area defining multiple exploration targets, some showed association with historic showings. Later diamond drilling during the 1960's loosely

defined the Main Zone mineralization. More thorough drilling was conducted during the 1970's, culminating to a total of 125 holes and 11,500 meters of core (Hureau, 1981). Approximately 884,000 tonnes of unmined ore at the Main Zone was calculated at 1.04% Cu, 3.77 g/t Ag, 0.21 g/t Au, and 0.066% MoS2; with 668,000 tonnes of ore calculated in the South Zone at 0.9% Cu (Tenney, 1981; Watson, 1984). The Cowley Deposit remains the largest open-pit mineable reserve in the Whitehorse Copper Belt (MacKay et al., 1993).

In 1965 New Imperial Metals contracted Wright Engineers Ltd., J.A.C. Ross and Associates and Dr. A.C. Skerl, PEng to conduct feasibility studies on the 6 main deposits in the belt including the Cowley Deposit (Wengzynowski, 2012). It was latter revised following 1970 drilling which further delineated mineralized zones. Feasibility studies record the evaluated geology, ore reserves; proposed pit designs and mining methods; mining schedule and results from metallurgical tests (Wengzynowski, 2014). The Cowley Deposit was at the feasibility stage prior to shutdown of Whitehorse Copper Mines in 1982, due to a declining economy and copper prices.

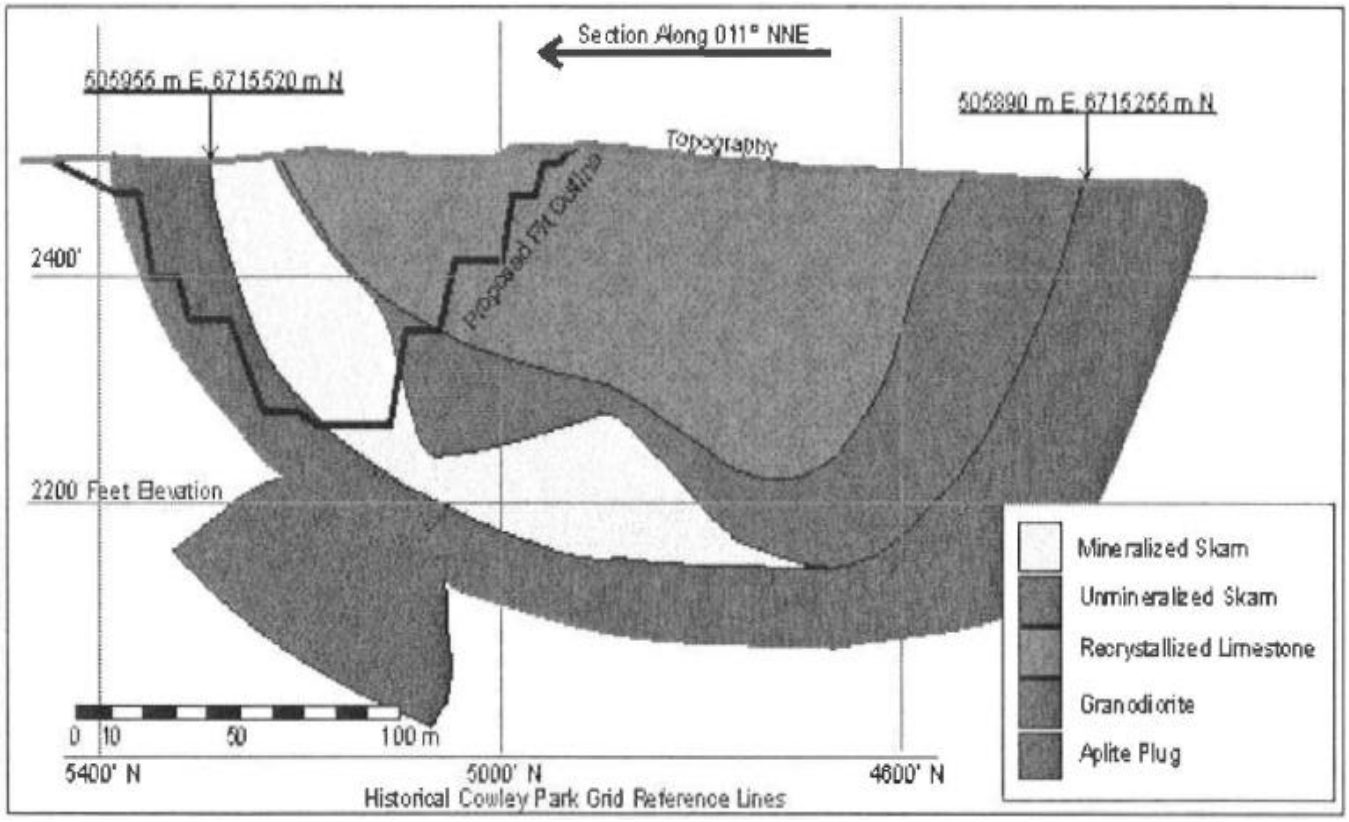

Figure 5: *Historic cross-section of Proposed Open Pit; Deposit with proposed pit outline (Tenney, 1981).*

7.0 Recent History

More recently work has focused on extended mineralization at the Cowley deposit. In 2008 Yankee Hat Minerals conducted a 21-hole drill program totalling 2134.1 meters. However, due to monetary constraints only 4 out of the 21 holes were logged. From the holes processed assays returned high grades up to 47% Cu and 324 g/t Ag. In 2016 Lobo Del Norte Ltd. conducted 858.01 m of diamond drilling in 5 holes. LDN-16-04 and LDN-16-05; hole LDN-16-05 intersected an extensive strongly mineralized zone and yielded 1.59% Cu and 9.24 g/t Ag over 10.36 meters, furthermore LDN-16-04 intersected 0.56% Cu and 2.75 g/t Ag over 6.63 meters. In 2017, Lobo Del Norte Ltd. conducted another 701.4 meters of diamond drilling in 4 holes on the Cowley Park Property, highlights include 55.7 meters returning 0.847% Cu, 0.142 g/t Au, 5.53 g/t Ag and .047% Mo and 4.88 meters of 7.206% Cu, 65.67 g/t Ag, 0.663 g/t Au and 0.0373% Mo.

7.1 2018 Drilling Program

In 2018 a total of 2493.26 meters of drilling was conducted on the Cowley Park property with a total assessment valuation of $ 252,600.57. Work was carried out on SUE 1 – 4 claims that lie approximately 20km south of Whitehorse and are road accessible of the Klondike Highway. A covered skid mounted drill rig was used and maneuvered into position using a D6 bulldozer. Drilling was done with HTW core diameter. The existing network of trails from previous exploration was utilized to keep ground disturbance to a minimum. Water was sourced from Cowley Creek that intersects north east through the property.

2018 drilling was designed to test fringes of the deposit for potential extensions to known mineralization and to probe the area connecting the primary mineralized lobes. Core is currently stored at the Kluane Drilling compound on Macdonald road, Whitehorse, Yukon. 2018 core remains to be logged and assayed with plans to process the core in spring of 2019. Figure 4 indicates the locations of the 2018 drilling program. The table below details the hole coordinates, azimuths and depths.

In addition, 4 holes (CP-150, CP-152, CP-154, CP-155) of the remaining 17 Yankee Hat holes were logged and assayed in spring 2018.

Table 2: 2018 Drilling Locations

ID	Name/PAD	Proposed Depth	True Depth	Easting	Northing	Azimuth	Dip
18CP01	Target A	120	126.49	506110	6715478	11	90
18CP02	Target A	120	120.4	506110	6715478	11	75
18CP03	Target D	160	187.45	506065	6715400	11	45

18CP04	Target B	140	140.21	506186	6715345	11	60
18CP05	Target B	120	202.69	506186	6715345	11	90
18CP06	Target E	120	164.59	505967	6715346	11	90
18CP07	Target E	140	184.4	505967	6715346	11	60
18CP08	Target F	250	185.93	505878	6715458	11	90
18CP09	Target F	160	266.09	505878	6715458	11	60
18CP10	Target G	120	157.58	505724	6715471	11	90
18CP11	Target G	140	185.93	505724	6715471	11	60
18CP12	Target H	120	121.92	505692	6715439	11	90
18CP13	Target H	180	138.68	505692	6715439	11	45
18CP14	Target I	140	184.4	505563	6715520	11	60
18CP15	Target I	120	68.58	505563	6715520	11	90
18CP16	Target I	140	57.91	505563	6715520	191	60

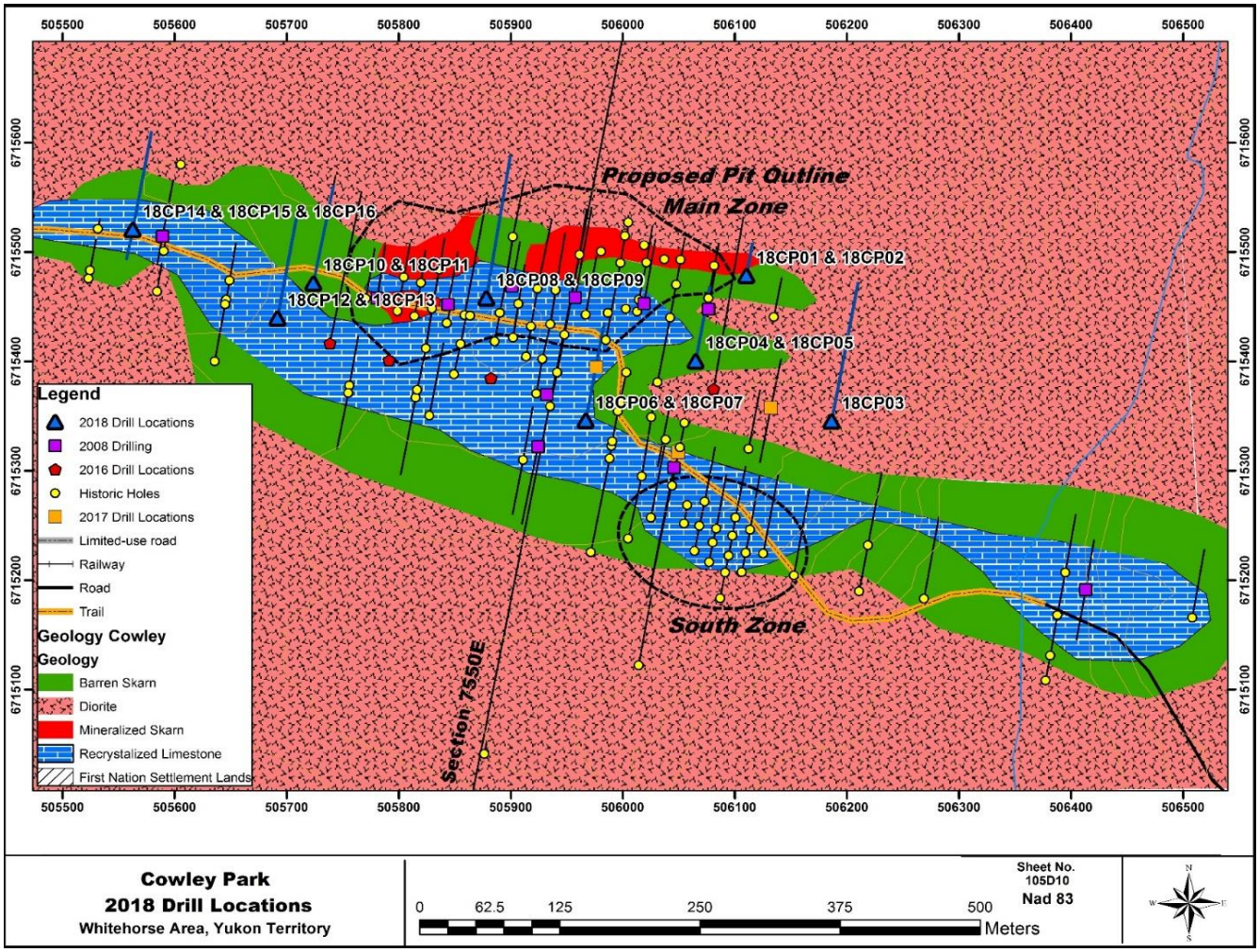

Figure 6: *2018 drill hole locations with historic drill holes. Historic holes (red dot with line), 2008 Yankee Hat holes (labeled red dot with bold line), 2018 drilling (blue triangles).*

7.2 Highlights of 2018 Drill Results

Core logging of the 2018 holes was completed over the winter of 2019. The following intercepts are highlights from 2018 exploration program.

Table 3: *18-CP-03 Significant Intercepts*

Interval (ft) From	To	Total (ft)	Total (m)	Cu (%)	Au (g/ton)	Ag (g/ton)	Zn (g/ton)	Mo (g/ton)	Fe (%)
275	305	30	9.14	2	0.15	12.5	9.75	462	2.29
374	387	13	3.96	2.11	0.19	16.1	7	2108	14.84
465	474	9	2.74	4.46	0.06	8.7	154	178	6.51

Figure 7: *18-CP-03 mineralization where 377' to 384' averaged 0.22 g/ton Au, 2.4% Cu, and 2543 ppm Mo (Samples X982779 to X982781). Garnet alteration is shown by the pervasive, light pinkish brown matrix coinciding with carbonate and diopside alteration. Bornite, chalcopyrite and molybdenite are found as semi-massive blebs withing calcite infilled hydrofracturing.*

Table 4: *18-CP-06 Significant Intercepts*

Interval (ft) From	To	Total (ft)	Total (m)	Cu (%)	Au (g/ton)	Ag (g/ton)	Zn (g/ton)	Mo (g/ton)	Fe (%)
246	321.6	75.6	23.04	1.91	0.18	12.7	66.3	558	5.83
267	283	16	4.88	4.32	0.37	32.16	23.5	1176	6.06

Figure 8: *18-CP-06 mineralization where sample W797688 (268'-269') assayed 0.936 g/ton Au, 13% Cu, 94.9 g/ton Ag. Sample W797690 (270'-271') assayed 0.767 g/ton Au, 3% Cu, and 25.9 g/ton Ag.*

Table 5: *18-CP-14 Significant Intercept**; Granodiorite mineralized at contact with skarn with qtz-carbonate stringers and fracture filling mineralization. No significant intercepts within skarn zones.*

Interval From	To	Total (ft)	Total (m)	Cu (%)	Au (g/ton)	Ag (g/ton)	Zn (g/ton)	Mo (g/ton)	Fe (%)
201	208	7	2.13	1.35	0.242	8.7	36	499	3.63

Table 6: *18-CP-09 Significant Intercept; Mineralization occurs within skarn at the contact with dolomite where shearing produced increased silicification and mobilization of bornite, chalcopyrite, and trace gold*

Interval From	To	Total (ft)	Total (m)	Cu (%)	Au (g/ton)	Ag (g/ton)	Zn (g/ton)	Mo (g/ton)	Fe (%)
180	195	15	4.57	2.57	0.15	11.54	1022	1670	13.4

8.0 2019 Drilling Program

A total of 12 holes totalling 1990 meter was drilled in the spring and summer of 2019 on the Sue claims 1-4 with a total assessment evaluation of $235 306.24. A covered skid mounted drill rig was used and maneuvered into position using a D6 bulldozer. Drilling was done with HQ core diameter. The existing network of trails from previous exploration was utilized to keep ground disturbance to a minimum. Water was sourced from Cowley Creek that intersects north east through the property.

The 2019 Drilling program focused on extending known mineralization to the north in areas never tested before. There was 12 holes drilled in total, with 7 holes have been logged and assays for holes 19-CP-02 and 19-CP-08 have been analysed.

***Table 7**: 2019 Drilling Locations*

Hole ID	Proposed Depth	Easting	Northing	True Depth	Azimuth	Dip	Actual Depth	Status
19CP01	160m	506082	6715373	181.36	11	80	181.36	Partly Logged
19CP02	180m	506082	6715373	175.26	191	45	175.26	Logged/Assayed
19CP03	150m	506082	6715373	173.74	191	75	173.74	Not Logged
19CP04	180m	506131	6715356	158.5	11	45	158.5	Not Logged
19CP05	160m	506065	6715400	179.83	11	75	179.83	Not Logged
19CP06	160m	506209	6715334	150.88	11	45	150.88	Not Logged
19CP07	140m	506209	6715334	163.07	11	75	163.07	Not Logged
19CP08	180m	506234	6715329	176.78	11	45	176.78	Logged/Assayed
19CP09	160m	506234	6715329	175.26	11	75	175.26	Not Logged
19CP10	180m	506183	6715492	185.93	191	45	185.93	Not Logged
19CP11	160m	506183	6715492	188.98	191	75	188.98	Not Logged
19CP12	140m	506233	6715486	80.77	191	45	80.77	Not Logged

Plans are currently underway to continue logging the 2019 core, which is currently stored at the Kluane Drilling office in Whitehorse. Additionally, continued database management of all historical and recent drill hole data on the Cowley Park project is being processed to allow for effective and efficient planning for future exploration, and to further understand the extent of the properties total resource potential.

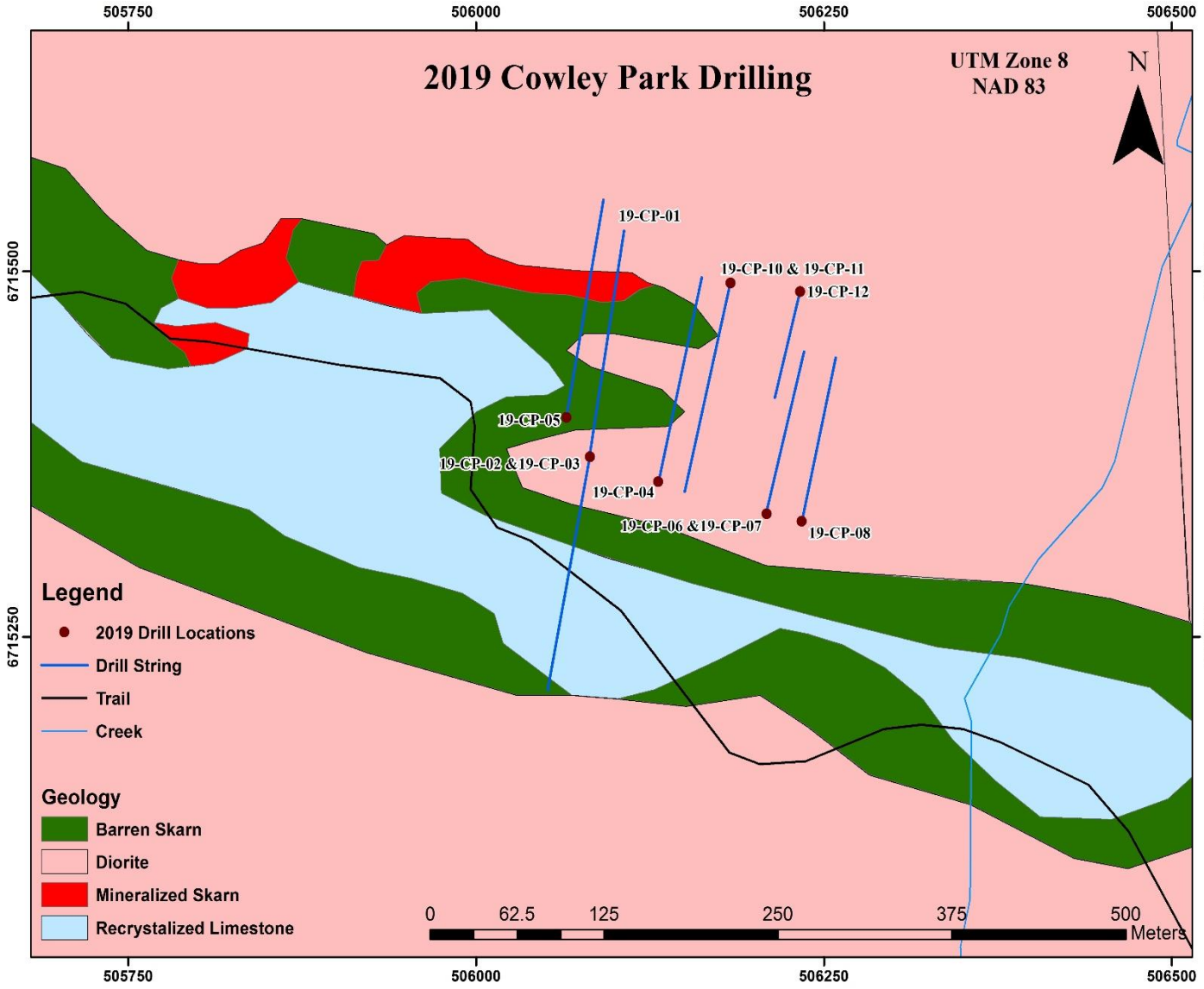

Figure 9: *2019 Drill hole locations. To date, 19-CP-08 has shown that mineralization extends much further to the east than previously known. Logging and assays are still pending on the majority of drill holes.*

Table 8: *19-CP-08 Significant Intercepts*

Interval From	Interval To	Total (ft)	Total (m)	Cu (%)	Au (g/ton)	Ag (g/ton)	Zn (g/ton)	Mo (g/ton)	Fe (%)
346	426	80	24.4	3.71	0.15	14.13	1225.97	358.25	16.26
306	327	21	6.4	0.83	.08	11.65	trace	1992.14	9.15
including									
380	401	21	6.4	7.88	0.29	28.58	3767.14	1685.38	13.81

Figure 10: *19-CP-08 Mineralization; Disseminated chalcopyrite within carbonate altered magnetite skarn.*

Table 9*: 19-CP-02 Significant Intercepts*

Interval From	Interval To	Total (ft)	Total (m)	Cu (%)	Au (g/ton)	Ag (g/ton)	Zn (g/ton)	Mo (g/ton)	Fe (%)
345	355	10	3.05	1.24	trace	trace	trace	981.75	5.4
258	276	18	5.5	1.03	trace	trace	1377	trace	9.5

Figure 11: *19-CP-02 Mineralization; Garnet and diopside altered skarn with disseminated and fracture filling chalcopyrite, bornite, molybdenite, and pyrite. 352.4'-355.0' assayed 2.38% Cu.*

Figure 12: *19-CP-01 Mineralization with Massive Bornite; carbonate and epidote alteration found in hole 19-CP-01. Assays pending.*

Figure 13*: CP-19-01 Mineralization; Calc-silicate skarn showing remnant limestone protolith with garnet, carbonate, magnetite, and chlorite alteration. Chalcopyrite and pyrite are both disseminated and in large blebs. The bottom row of core shows brecciated skarn in contact with a late stage intermediate dyke. Assays pending.*

9.0 Sample Preparation and Assay Procedures

Samples were prepared at ALS Whitehorse facility for analysis. All drill and rock sample preparation involved crushing samples to 70% passing through 10 mesh, split 250g and pulverized to 85% passing through 200 mesh (PUL-31, SPL-21). Samples were analyzed by 35 element aqua regia ICP-AES, ore grade copper aqua regia, and fire assay pre-concentration with an atomic absorption spectrometry AU 30g FA-AA finish. 36 elements in total were analyzed in the assays. All drill holes received a blank sample every 25 feet to ensure for quality assurance of the samples.

10.0 Expenditures

All drilling was conducted by Kluane Drilling Ltd. based out of 14 Macdonald Rd. Whitehorse. Assaying was conducted by ALS Canada Ltd in Whitehorse. All geological services were carried out by Higher Ground Exploration Ltd.

Table 10: 2019 Expenditures

Task	Cost
Drilling & Casing	$150,220.68
Hourly Labour	$17,925.00
Logging, Assays & Other Geological Work	$73,098.36
GST	$12,062.20
Total	**$253,306.24**

11.0 2020 Exploration Recommendations

The 2020 exploration goal is to expand the boundaries of the known mineralization along strike, and drill test undrilled surface mineralization exposed and previous geochemical geophysical anomalies that lay beyond the known mineralization.

Easy access and good infrastructure allow for cost-effective exploration and makes the Whitehorse Copperbelt property feasible if advanced developments are made. In addition, to recent drilling that has extended known mineralization several factors could allow for a significant boost to calculated reserves. Reserves calculated in 1965, 1971 and 1979 likely used a conservative estimation with a high cut-off to sustain economic profitability while copper prices were low. Furthermore, improvements in technology and recovery systems would likely boost recovery and offer lower cut-off grades. These factors coupled with further infill drilling and step outs would allow for a significant increase in reserves.

Based on previous exploration work on the property geochemical surveys results indicate a strong glacial drift component and magnetic surveys despite locally high abundances of magnetite display strong interference from graphitic material within the limestones and marble. Therefore, it is planned in the 2019 program that prior to drilling preliminary prospecting and mapping be carried out. Prospecting and preliminary mapping will be used to determine sites obscured by till for trenching and later drilling. Historic geochemical soil surveys and IP geophysics outline anomalies to the area south and west of the Cowley Park deposit that will be immediate targets for prospecting and preliminary mapping.

Additionally, ground magnetic surveys should be conducted over recently drilled area where mineralization was extended to the east. Many of the highest-grade intervals from 2018 and 2019 drilling was associated with massive magnetite geochemical signatures. By differentiating the magnetic response of known ore zones to other lithological zones, future drilling can be planned which could expand known reserves.

12.0 Statement of Qualifications

I, Chris Arsenault do hereby certify that:

1. I graduated with a B.Sc. in Geology from Acadia University in 2014 and a technical diploma in Earth Resources Technology from Sir Sanford Fleming College in 2011.
2. I have worked as an independent consultant Geologist since 2015 in the Yukon Territory, Ontario, Nova Scotia, and British Colombia. I have been involved in the mineral exploration industry of the Yukon since 2007, and have a thorough understanding of grass roots project generation of the territory. I have prior experience conducting ground based geophysical surveys targeting base metals in Arizona and Minnesota, USA over known economical deposits.
3. I have prepared this report which relies upon existing data relating to the project area, including field work conducted by geologists from multiple mineral exploration companies, government institutions, and academic literature which describes the geological settings of the project area and surrounding areas.
4. I have ensured that adequate quality control and assurance measures were taken in handling of all drilled core and subsequent samples submitted for assays.

I Nicolai Goeppel, of the city of Whitehorse, Yukon, certify that:

1. I worked and carried out work on the Cowley Property in 2020, and have been involved with the Cowley project since 2016
2. I have completed an Earth Sciences B.Sc. at Memorial University of St. John's, Newfoundland in 2014
3. I have worked in the mineral exploration industry in the Yukon, Newfoundland, and British Columbia since 2009
4. I have been involved in the placer industry my entire life and engaged in placer gold exploration in the Yukon and BC since 2009
5. Owner and founder of Higher Ground Exploration Services since 2015

Dated this 31th of March, 2020

Reference

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APPENDIX

19-CP-02

Certificate: WH20050721 – Finalized DATE RECEIVED : 2020-03-03 DATE FINALIZED : 2020-03-19 ;

CLIENT: "KLUDRIL - Kluane Drilling LTD"

	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46
SAMPLE	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Th	Ti	Tl	U	V	W	Zn	Cu
DESCRIPTION	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
X982608	0.006	0.3	1.29	2	<10	20	<0.5	<2	3.73	<0.5	7	24	522	1.44	<10	<1	0.08	10	0.89	313	12	0.07	18	820	2	0.34	<2	<20	0.09	<10	<10	36	<10	23	
X982609	0.015	0.7	0.66	3	<10	30	<0.5	<2	1.13	<0.5	14	12	2130	2.5	<10	1	0.04	10	0.32	147	42	0.08	30	1030	<2	2.27	<2	<20	0.09	<10	<10	18	<10	22	
X982610	0.019	1.6	1.34	7	<10	30	<0.5	<2	4.1	0.7	29	12	4600	5.03	<10	1	0.06	10	0.17	556	71	0.05	36	890	<2	4.68	<2	<20	0.08	<10	10	11	<10	86	
X982611	0.008	0.8	2.07	4	<10	<10	<0.5	<2	13.3	<0.5	7	14	1130	8.17	10	1	0.01	<10	0.18	1675	455	0.02	11	380	<2	0.72	<2	<20	0.06	<10	<10	54	<10	14	
X982612	0.015	2.6	1.19	5	<10	<10	<0.5	<2	7.1	0.5	23	8	7100	4.71	<10	1	0.01	<10	0.37	1185	485	0.03	35	530	<2	3.14	2	<20	0.04	<10	<10	13	<10	82	
X982613	0.006	1.1	1.14	6	<10	10	<0.5	<2	4.4	0.5	31	10	2050	3.93	<10	<1	0.01	<10	0.28	688	12	0.03	47	740	<2	3.72	<2	<20	0.06	<10	<10	10	<10	96	
X982614	0.009	1.8	1.3	9	<10	10	<0.5	<2	4.24	0.8	83	8	3770	6.05	<10	1	0.03	<10	0.2	702	19	0.05	169	750	3	6.5	2	<20	0.05	<10	<10	9	<10	129	
X982615	0.018	3.6	1.23	11	<10	10	<0.5	<2	7.4	0.9	113	4	4710	8.75	<10	<1	0.02	<10	0.18	1695	4	0.02	249	420	5	9.25	<2	<20	0.03	<10	<10	9	<10	205	
X982616	0.161	26.5	0.25	43	<10	10	<0.5	25	4.09	10.1	399	4	>10000	23.4	<10	2	0.01	<10	0.29	2520	2	0.02	622	470	7	>10.0	<2	<20	0.01	<10	<10	5	<10	3260	3.5
X982617	0.018	21.2	1.76	77	<10	20	1.2	39	5.74	47.7	80	67	9070	9.85	10	2	0.02	<10	2.25	27400	8	0.03	272	660	34	>10.0	21	<20	0.04	<10	<10	37	<10	4490	
X982618	0.01	2.3	1.39	21	<10	30	<0.5	<2	6.12	1.5	159	37	3900	9.18	<10	1	0.08	<10	1.49	3710	2	0.02	131	780	4	8.55	<2	<20	0.05	<10	<10	24	<10	162	
X982619	0.007	0.5	1.23	11	<10	<10	<0.5	<2	8.9	<0.5	82	11	652	4.61	<10	1	0.01	<10	0.47	3010	1	0.01	22	690	<2	2.45	<2	<20	0.04	<10	<10	17	<10	38	
X982620	<0.005	0.4	1.75	8	<10	<10	<0.5	<2	10.5	<0.5	12	10	905	4.88	<10	1	<0.01	<10	0.4	2700	4	0.01	13	560	<2	1.12	<2	<20	0.02	<10	<10	15	<10	25	
X982621	0.007	1.2	1.62	7	<10	80	<0.5	<2	8.9	<0.5	15	12	2330	6.57	<10	<1	0.04	<10	0.72	2390	238	0.03	30	680	<2	3.01	2	<20	0.05	<10	<10	23	<10	44	
X982622	0.009	3.2	1.89	4	<10	100	<0.5	2	10.1	1.1	22	7	6110	7.61	<10	<1	0.06	<10	0.72	2460	468	0.04	16	310	<2	3.26	<2	<20	0.05	<10	<10	29	<10	78	
X982623	0.012	4.1	1.8	4	<10	60	<0.5	<2	9.3	2	50	6	7150	8.98	<10	1	0.04	<10	0.58	2310	1015	0.04	14	260	<2	3.65	<2	<20	0.05	<10	<10	34	<10	140	
X982624	<0.005	0.3	2.58	2	<10	70	<0.5	<2	2.45	<0.5	17	17	313	3.9	10	1	0.07	10	2.01	1075	282	0.15	8	1920	<2	0.29	<2	<20	0.23	<10	<10	79	<10	116	
X982625	<0.005	<0.2	0.02	<2	<10	40	<0.5	<2	>25.0	<0.5	<1	<1	14	0.07	<10	<1	0.01	<10	0.56	60	4	0.02	13	70	<2	0.01	<2	<20	<0.01	<10	<10	<1	<10	<2	
X982626	0.02	8.8	1.51	3	<10	<10	<0.5	<2	8.3	5.5	19	8	>10000	7.97	<10	1	0.01	<10	0.75	2210	3590	0.03	13	280	<2	3.38	<2	<20	0.04	<10	<10	27	<10	393	1.77
X982627	0.006	2.2	1.51	4	<10	<10	<0.5	<2	9.8	0.7	48	10	4200	8.91	<10	1	<0.01	<10	0.11	2180	27	0.01	25	190	<2	6.56	<2	<20	0.04	<10	<10	21	<10	41	
X982628	0.008	1.2	1.38	6	<10	<10	<0.5	<2	8.3	<0.5	58	7	1750	8.29	<10	<1	<0.01	<10	0.12	2040	8	0.01	25	330	<2	6.62	<2	<20	0.03	<10	<10	19	<10	20	
X982629	0.006	1.2	1.39	7	<10	<10	<0.5	<2	8.6	<0.5	52	11	2000	7.31	<10	1	<0.01	<10	0.18	2040	4	0.01	17	490	<2	5.05	<2	<20	0.04	<10	<10	23	<10	27	
X982630	<0.005	0.9	1.26	5	<10	<10	<0.5	<2	8.1	0.9	16	6	1340	6.51	<10	1	<0.01	<10	0.17	1960	2	0.01	13	530	<2	4.48	<2	<20	0.03	<10	<10	19	<10	50	
X982631	0.006	1.5	1.47	8	<10	<10	<0.5	<2	9.3	1.3	30	9	3220	10.55	<10	1	<0.01	<10	0.11	2230	5	0.01	20	450	<2	8.12	2	<20	0.06	<10	<10	26	<10	68	
X982632	0.006	0.7	1.66	4	<10	<10	<0.5	<2	9.6	<0.5	27	8	964	6.36	<10	1	<0.01	<10	0.11	2330	4	0.01	8	410	<2	3.09	2	<20	0.06	<10	<10	27	<10	19	
X982633	<0.005	0.6	0.74	5	<10	<10	<0.5	<2	6.12	0.6	16	4	1340	5.16	<10	<1	<0.01	<10	0.4	1485	4	0.01	10	410	2	4.4	<2	<20	0.02	<10	<10	10	<10	53	
X982634	<0.005	1.1	0.74	7	<10	<10	<0.5	<2	6.16	0.7	39	6	2200	7.86	<10	<1	<0.01	<10	0.41	1620	1	0.01	19	570	2	7.67	<2	<20	0.03	<10	<10	10	<10	71	
X982635	<0.005	1	0.87	7	<10	<10	<0.5	<2	7.2	0.7	30	5	2320	7.79	<10	<1	<0.01	<10	0.25	2030	1	0.01	17	870	<2	7.08	<2	<20	0.05	<10	<10	12	<10	70	
X982636	<0.005	1	1.71	7	<10	20	<0.5	2	5.01	<0.5	31	7	1970	6.99	<10	<1	0.06	10	0.16	1245	8	0.07	14	900	<2	7.08	<2	20	0.11	<10	<10	19	<10	66	
X982637	<0.005	0.3	1.2	3	<10	10	<0.5	<2	2.58	<0.5	7	9	492	2.41	<10	<1	0.03	10	0.2	425	42	0.12	11	930	<2	2.29	<2	<20	0.13	<10	<10	22	<10	14	

X982638	<0.005	0.4	2.05	6	<10	10	<0.5	<2	3.37	<0.5	18	8	680	4.76	10	<1	0.05	20	0.16	639	4	0.15	12	1220	<2	4.62	<2	<20	0.14	<10	10	20	<10	44	
X982639	<0.005	0.4	1.66	7	<10	10	<0.5	<2	7.8	<0.5	27	10	1270	5.8	<10	<1	0.02	10	0.29	1650	22	0.05	6	990	<2	2.55	<2	<20	0.12	<10	<10	27	<10	36	
X982640	0.006	1	0.86	6	<10	<10	<0.5	<2	6.33	<0.5	25	15	2070	4.14	<10	<1	<0.01	10	0.4	1695	35	0.01	5	1260	<2	1.36	<2	<20	0.06	<10	<10	16	<10	22	
X982641	0.006	1.3	1.68	4	<10	10	<0.5	<2	8	0.8	13	15	3760	5.11	<10	1	0.01	<10	0.49	1810	390	0.02	6	760	<2	0.73	<2	<20	0.07	<10	<10	28	<10	80	
X982642	<0.005	0.3	1.2	4	<10	10	<0.5	<2	4.28	<0.5	3	19	912	1.65	<10	<1	0.01	10	0.29	666	8	0.01	5	750	<2	0.23	<2	<20	0.06	<10	<10	16	<10	23	
X982643	0.006	3	1.09	6	<10	<10	<0.5	<2	6.14	1.7	19	18	9670	3.86	<10	<1	0.01	10	0.27	1100	228	0.01	6	1080	<2	1.29	<2	<20	0.08	<10	<10	32	<10	133	
X982644	0.012	1.8	1.34	2	10	<10	<0.5	<2	8.3	0.8	14	17	6260	5.89	<10	<1	0.01	10	0.23	1610	2950	0.03	4	950	<2	1.14	<2	<20	0.05	<10	<10	45	<10	67	
X982645	0.005	2.2	1.64	3	<10	<10	<0.5	<2	8.8	1.4	18	13	9890	6.27	<10	1	0.02	10	0.21	1670	101	0.03	7	840	<2	1.22	3	<20	0.05	<10	<10	43	<10	108	
X982646	0.024	5.1	0.51	8	<10	<10	<0.5	4	6.15	1.8	52	20	>10000	5.64	<10	<1	<0.01	10	0.48	1345	648	<0.01	28	1360	<2	3.27	<2	<20	0.02	<10	<10	17	<10	101	2.38
X982647	0.006	0.7	1.23	4	<10	<10	<0.5	<2	7.9	<0.5	10	20	2600	5.34	<10	<1	0.01	<10	0.31	1660	401	0.01	4	780	<2	0.63	2	<20	0.02	<10	<10	38	<10	21	
X982648	<0.005	0.9	1.6	3	<10	<10	<0.5	<2	8.1	<0.5	10	16	3580	4.82	<10	1	<0.01	<10	0.26	1705	77	0.01	6	780	<2	0.63	<2	<20	0.05	<10	<10	35	<10	20	
X982649	<0.005	<0.2	1.37	5	<10	<10	<0.5	<2	5.15	<0.5	<1	20	78	1.97	<10	<1	0.01	<10	0.18	813	4	0.01	1	710	<2	0.03	<2	<20	0.05	<10	<10	16	10	8	
X982650	<0.005	<0.2	0.03	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	22	0.09	<10	<1	0.01	<10	0.45	77	1	0.01	10	70	<2	0.01	<2	<20	<0.01	<10	<10	<1	<10	14	
X982651	<0.005	<0.2	1.52	10	<10	<10	<0.5	<2	5.19	<0.5	<1	22	87	1.69	<10	<1	0.01	10	0.11	697	2	0.01	<1	1450	<2	0.02	2	<20	0.06	<10	<10	19	<10	6	
X982652	<0.005	<0.2	1.66	8	<10	10	<0.5	<2	3.91	<0.5	<1	19	10	0.8	<10	<1	0.01	10	0.1	385	1	0.02	<1	910	<2	<0.01	<2	<20	0.05	<10	10	14	<10	5	
X982653	<0.005	<0.2	1.41	6	<10	<10	<0.5	<2	4.51	<0.5	<1	19	31	1.46	<10	1	0.01	10	0.12	637	3	0.01	<1	710	<2	0.01	<2	<20	0.05	<10	<10	17	<10	6	
X982654	<0.005	<0.2	1.79	6	<10	10	<0.5	<2	4.56	<0.5	1	19	124	1.35	<10	<1	0.01	10	0.15	598	4	0.01	1	800	<2	0.03	<2	<20	0.05	<10	<10	15	<10	8	
X982655	<0.005	0.2	1.36	6	<10	<10	<0.5	<2	5.47	<0.5	1	18	393	2.09	<10	1	0.01	<10	0.18	774	21	0.01	<1	700	<2	0.08	3	<20	0.05	<10	<10	14	<10	12	
X982656	<0.005	0.3	2.43	4	<10	<10	<0.5	<2	12.3	<0.5	3	15	953	7.41	10	<1	0.01	<10	0.15	1960	40	0.01	3	270	<2	0.21	<2	<20	0.04	<10	<10	20	<10	14	
X982657	<0.005	0.3	2.34	8	<10	<10	<0.5	<2	12.7	<0.5	9	24	962	8.33	10	<1	0.01	<10	0.13	1935	55	0.01	8	550	<2	0.56	<2	<20	0.05	<10	<10	24	<10	8	
X982658	<0.005	0.3	2.32	6	<10	<10	<0.5	<2	11.1	<0.5	2	21	783	6.45	10	1	<0.01	<10	0.16	1860	49	0.01	1	470	<2	0.16	<2	<20	0.04	<10	<10	22	<10	9	
X982659	<0.005	0.5	2.29	4	<10	<10	<0.5	<2	12.3	<0.5	5	33	2340	7.64	10	1	<0.01	<10	0.25	2240	350	0.01	6	440	<2	0.34	<2	<20	0.06	<10	<10	25	<10	26	
X982660	0.008	1.8	1.96	7	<10	<10	<0.5	2	11.9	0.6	20	34	7230	8.09	10	<1	<0.01	<10	0.17	2220	1410	0.01	10	560	<2	0.9	<2	<20	0.06	<10	<10	26	<10	43	
X982661	<0.005	1.6	1.83	8	10	<10	<0.5	2	12.5	<0.5	6	31	6880	8.5	10	1	<0.01	<10	0.14	2230	2910	0.01	6	710	<2	0.9	<2	<20	0.06	<10	<10	29	<10	26	
X982662	0.006	3.6	1.95	8	<10	<10	<0.5	3	11.2	0.7	32	31	>10000	7.72	10	<1	<0.01	<10	0.16	2080	46	0.01	22	770	<2	1.65	<2	<20	0.07	<10	<10	28	<10	33	1.595
X982663	<0.005	1.5	2.24	5	<10	<10	<0.5	<2	12.8	0.9	8	29	5650	7.9	10	<1	<0.01	<10	0.2	2390	467	0.01	6	610	<2	0.62	<2	<20	0.06	<10	<10	26	<10	64	
X982664	<0.005	<0.2	1.74	7	<10	<10	<0.5	<2	6.63	<0.5	1	21	68	2.17	<10	<1	0.01	<10	0.3	1015	23	0.01	1	700	<2	0.02	<2	<20	0.05	<10	<10	18	<10	15	
X982665	<0.005	0.2	1.92	3	<10	10	<0.5	<2	6.53	<0.5	2	11	438	2.17	<10	<1	0.01	<10	0.21	1015	286	0.01	1	240	<2	0.13	<2	<20	0.03	<10	<10	17	<10	14	
X982666	<0.005	0.4	1.41	8	<10	10	<0.5	<2	5.36	<0.5	6	12	1970	1.73	<10	<1	0.01	<10	0.27	756	11	0.01	5	740	<2	0.25	<2	<20	0.04	<10	<10	11	<10	18	
X982667	<0.005	0.9	1.38	5	<10	<10	<0.5	<2	6.64	<0.5	2	15	2860	3.58	<10	1	<0.01	<10	0.29	1035	61	0.01	2	710	<2	0.31	<2	<20	0.04	<10	10	22	<10	22	
X982668	<0.005	0.6	1.68	4	<10	10	<0.5	3	6.42	<0.5	1	25	1685	3.09	<10	<1	0.01	<10	0.22	1075	52	0.02	<1	540	<2	0.18	<2	<20	0.07	<10	<10	23	<10	14	
X982669	<0.005	0.3	1.18	7	<10	<10	<0.5	<2	4.34	<0.5	2	21	1625	1.69	<10	1	0.01	10	0.22	639	168	0.01	2	1010	<2	0.21	2	<20	0.06	<10	10	17	<10	30	
X982670	<0.005	0.3	1.16	7	<10	<10	<0.5	<2	3.62	<0.5	2	19	1000	1.12	<10	1	0.01	10	0.14	451	11	0.01	1	910	<2	0.12	<2	<20	0.06	<10	10	16	<10	12	
X982671	<0.005	0.2	1.49	10	<10	<10	<0.5	<2	3.75	<0.5	1	20	500	0.91	<10	1	0.02	10	0.13	426	82	0.02	1	1200	<2	0.07	<2	<20	0.06	<10	10	16	<10	11	
X982672	<0.005	<0.2	1.34	7	<10	<10	<0.5	<2	4.28	<0.5	<1	24	73	1.14	<10	<1	0.01	10	0.11	541	5	0.01	<1	920	<2	0.01	<2	<20	0.07	<10	<10	16	<10	8	
X982673	<0.005	<0.2	1.74	5	<10	10	<0.5	<2	5.87	<0.5	<1	12	94	1.91	<10	<1	0.02	10	0.08	882	11	0.02	<1	660	<2	0.01	<2	<20	0.06	<10	10	16	<10	8	

X982674	<0.005	<0.2	2.03	6	<10	<10	<0.5	<2	6.6	<0.5	<1	9	22	1.95	<10	<1	0.01	<10	0.1	929	34	0.01	1	670	<2	0.01	<2	<20	0.04	<10	<10	18	<10	7
X982675	<0.005	<0.2	0.03	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	7	0.08	<10	<1	<0.01	<10	0.5	73	<1	0.01	12	70	<2	<0.01	<2	<20	<0.01	<10	<10	<1	<10	<2
X982676	<0.005	0.3	2.04	9	<10	<10	<0.5	<2	9.1	<0.5	4	22	702	4.37	<10	<1	0.01	10	0.19	1495	67	0.01	7	1610	<2	0.24	2	<20	0.06	<10	<10	22	<10	11
X982677	0.005	1.7	1.8	4	<10	<10	<0.5	<2	9.7	1.7	26	28	6610	6.34	10	<1	<0.01	<10	0.17	1810	53	<0.01	9	370	4	1.26	<2	<20	0.06	<10	<10	27	<10	77
X982678	<0.005	0.9	2	2	<10	<10	<0.5	<2	10.3	0.6	10	11	2680	6.11	<10	<1	<0.01	<10	0.16	2190	119	0.01	4	130	4	0.57	<2	<20	0.05	<10	<10	34	<10	22
X982679	<0.005	0.3	1.7	5	<10	<10	<0.5	<2	8.9	<0.5	10	9	450	5.18	<10	<1	<0.01	<10	0.1	1890	11	<0.01	4	220	<2	0.74	<2	<20	0.04	<10	<10	27	<10	7
X982680	<0.005	0.3	1.78	5	<10	<10	<0.5	<2	8.8	<0.5	8	8	600	5.42	<10	<1	<0.01	<10	0.1	2130	3	<0.01	5	260	2	0.79	<2	<20	0.05	<10	<10	32	<10	7
X982681	<0.005	0.2	1.39	4	<10	<10	<0.5	<2	7.6	<0.5	1	10	86	3.74	<10	1	0.01	<10	0.08	1505	1	0.01	1	520	2	0.1	<2	<20	0.03	<10	<10	21	<10	6
X982682	0.007	0.2	1.35	3	<10	<10	<0.5	<2	7.4	<0.5	1	10	28	3.73	<10	<1	<0.01	<10	0.05	1425	1	<0.01	2	190	2	0.04	<2	<20	0.03	<10	<10	21	<10	3
X982683	<0.005	0.2	1.69	4	<10	<10	<0.5	<2	8.4	<0.5	2	11	7	4.31	<10	<1	<0.01	<10	0.07	1585	3	0.01	1	320	3	0.02	<2	<20	0.04	<10	<10	27	<10	4
X982684	<0.005	<0.2	1.51	5	<10	<10	<0.5	<2	8	<0.5	1	8	3	3.84	<10	<1	<0.01	<10	0.05	1435	2	0.01	<1	280	3	<0.01	2	<20	0.03	<10	<10	20	<10	3
X982685	<0.005	0.2	1.09	17	<10	<10	<0.5	<2	15.2	<0.5	2	9	22	12	10	1	<0.01	<10	0.08	1565	189	<0.01	2	180	4	0.08	<2	<20	0.01	<10	<10	49	10	3
X982686	<0.005	0.3	0.75	31	<10	<10	<0.5	<2	15.3	0.6	2	8	66	13.15	10	1	<0.01	<10	0.07	1245	206	<0.01	2	140	3	0.03	<2	<20	0.01	<10	<10	51	<10	3
X982687	<0.005	0.2	1.34	5	<10	<10	<0.5	<2	12.2	<0.5	2	8	13	9.02	10	<1	<0.01	<10	0.09	1645	4	0.01	1	140	6	0.02	<2	<20	0.01	<10	<10	36	<10	5
X982688	<0.005	0.2	0.91	5	<10	20	<0.5	2	4.84	<0.5	11	7	350	3.96	<10	<1	0.05	<10	0.19	788	90	0.07	18	630	3	0.57	<2	<20	0.11	<10	<10	29	10	10
X982689	<0.005	0.2	0.83	6	<10	10	<0.5	<2	2.17	<0.5	14	9	520	2.04	<10	<1	0.03	<10	0.28	339	95	0.08	20	730	4	1.01	<2	<20	0.12	<10	<10	21	<10	16
X982690	<0.005	0.4	1.4	25	<10	<10	<0.5	<2	16.6	<0.5	7	13	403	14.5	10	1	<0.01	<10	0.07	2780	524	0.01	10	270	5	0.8	<2	<20	0.04	<10	40	104	120	9
X982691	0.008	0.3	0.61	4	<10	20	<0.5	<2	1.82	<0.5	7	26	709	1.52	<10	1	0.04	10	0.25	337	66	0.07	26	990	<2	0.35	<2	<20	0.11	<10	<10	23	10	14
X982692	<0.005	0.2	0.55	2	<10	30	<0.5	<2	0.75	<0.5	8	17	580	1.05	<10	<1	0.06	10	0.28	107	20	0.12	19	1060	3	0.41	<2	<20	0.12	<10	<10	23	<10	14
X982693	<0.005	0.5	0.58	4	<10	30	<0.5	<2	0.82	<0.5	8	8	1020	1.04	<10	<1	0.04	10	0.15	61	23	0.11	22	1040	3	0.91	<2	<20	0.12	<10	<10	14	<10	23
X982694	<0.005	0.6	0.78	3	<10	10	<0.5	<2	2.2	0.7	15	7	1720	2.46	<10	<1	0.02	10	0.11	168	97	0.06	17	850	<2	2.37	<2	<20	0.11	<10	<10	13	<10	51
X982695	<0.005	0.2	0.66	3	<10	20	<0.5	<2	1.08	<0.5	13	11	574	1.56	<10	<1	0.03	10	0.24	145	14	0.1	20	860	<2	1.35	<2	<20	0.13	<10	<10	18	<10	11
X982696	<0.005	0.3	1.09	4	<10	10	<0.5	<2	3.89	<0.5	13	16	302	3.64	<10	<1	0.01	10	0.19	656	7	0.03	10	790	<2	2.62	<2	<20	0.11	<10	<10	26	<10	10
X982697	<0.005	<0.2	0.82	4	<10	30	<0.5	<2	1.75	<0.5	8	18	245	2.05	<10	<1	0.06	10	0.34	279	75	0.07	15	1000	2	1.26	<2	<20	0.14	<10	<10	30	<10	13
X982698	<0.005	0.2	1.26	5	<10	<10	<0.5	<2	4.05	<0.5	9	10	182	4.16	10	<1	0.01	10	0.29	658	1	0.02	7	760	2	3.06	<2	<20	0.11	<10	10	24	<10	15
X982699	0.005	0.3	1.2	7	<10	20	<0.5	<2	4.51	<0.5	11	12	242	5.81	<10	1	0.01	<10	0.31	662	2	0.02	5	660	2	5.36	2	<20	0.1	<10	<10	19	<10	27
X982700	<0.005	0.2	0.03	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	8	0.08	<10	<1	0.01	<10	0.53	74	<1	0.01	5	70	<2	0.01	2	<20	<0.01	<10	<10	1	<10	2

19-CP-08

Certificate: WH20035403 – Finalized; CLIENT : "KLUDRIL - Kluane Drilling LTD", # of SAMPLES : 85;

DATE RECEIVED : 2020-02-14 DATE FINALIZED : 2020-02-29; PROJECT : "Cowley

	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-OG46	Au-AA23
SAMPLE	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl	U	V	W	Zn	Cu	Au
DESCRIPTION	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm
W797801	13.3	2.7	153	50	490	1	53	4.51	0.5	14	40	>10000	1.32	10	1	0.43	10	3.07	544	106	0.03	30	1160	6	0.47	9	1	78	<20	0.07	<10	10	22	30	73	1.355	0.127
W797802	13.4	1.14	123	<10	<10	<0.5	91	14.6	1.6	6	26	>10000	11.45	10	2	0.01	<10	0.53	1545	1300	<0.01	10	770	16	0.61	2	1	28	<20	0.04	<10	20	23	410	22	1.32	0.171
W797803	9.1	1.13	115	<10	<10	<0.5	59	16.6	1.9	5	26	9570	12.05	10	1	<0.01	<10	0.39	1480	1130	<0.01	9	940	20	0.26	2	2	43	<20	0.04	<10	10	31	260	40		0.149
W797804	1.1	1.72	11	<10	40	0.5	6	4.34	<0.5	9	7	1070	5.2	10	<1	0.22	20	1.03	899	156	0.04	4	1660	16	0.04	<2	6	54	<20	0.29	<10	<10	76	50	55		0.01
W797805	0.4	1.57	6	<10	60	<0.5	<2	2.52	<0.5	10	6	416	4.42	10	<1	0.2	20	1.14	821	75	0.06	5	1760	18	0.04	<2	7	69	<20	0.36	<10	<10	84	20	61		<0.005
W797806	5.8	0.93	159	<10	<10	<0.5	38	16.8	1.6	5	14	5910	13.35	10	1	<0.01	<10	0.19	1945	1970	<0.01	6	420	11	0.35	3	1	15	<20	0.03	<10	20	56	270	15		0.081
W797807	12	0.96	195	<10	<10	<0.5	68	17.1	1.6	7	19	>10000	14	10	1	<0.01	<10	0.19	1690	2330	<0.01	6	620	12	0.67	<2	1	7	<20	0.04	<10	10	40	800	8	1.115	0.169
W797808	3.7	1.18	175	<10	<10	<0.5	26	17.7	1.1	5	16	3810	14.05	20	<1	<0.01	<10	0.24	1895	2200	0.01	2	460	8	0.3	<2	1	7	<20	0.03	<10	20	79	660	12		0.065
W797809	0.7	1.14	56	<10	<10	<0.5	2	16.7	1.1	6	15	588	11.85	10	<1	<0.01	10	0.24	1795	1900	0.01	3	560	5	0.16	<2	1	11	<20	0.03	10	10	116	1250	11		0.007
W797810	0.2	1.53	39	<10	<10	<0.5	<2	16.5	1	8	14	307	11.65	10	<1	<0.01	<10	0.19	1780	2060	0.01	3	750	5	0.15	2	1	11	<20	0.05	<10	<10	105	1220	8		<0.005
W797811	0.2	2.09	33	<10	<10	<0.5	<2	13.9	<0.5	8	40	75	8.76	10	1	0.01	<10	0.45	1780	907	0.01	5	730	4	0.03	<2	3	12	<20	0.09	<10	<10	88	1020	18		0.008
W797812	<0.2	2.88	4	<10	20	<0.5	<2	2.69	<0.5	24	26	28	4.23	10	<1	0.02	10	2.59	804	7	0.03	13	2250	2	0.01	2	5	158	<20	0.21	<10	<10	80	10	92		<0.005
W797813	<0.2	1.74	11	<10	<10	<0.5	<2	9.3	<0.5	8	35	64	3.59	10	<1	<0.01	<10	0.58	1195	1580	<0.01	9	300	2	0.07	<2	2	31	<20	0.09	<10	<10	52	1570	21		<0.005
W797814	<0.2	1.43	7	<10	<10	<0.5	<2	6.43	<0.5	5	45	75	2.66	<10	<1	0.02	<10	0.36	966	1100	0.01	6	150	<2	0.06	<2	2	12	<20	0.07	<10	<10	39	940	13		<0.005
W797815	<0.2	1.31	4	<10	<10	<0.5	<2	6.01	<0.5	4	57	136	2.55	<10	<1	0.02	<10	0.27	851	1320	0.01	5	100	<2	0.08	<2	3	11	<20	0.09	<10	<10	42	910	8		<0.005
W797816	0.2	1.16	<2	<10	10	<0.5	<2	4.49	<0.5	3	68	270	1.55	<10	<1	0.05	<10	0.19	636	1200	0.02	2	40	<2	0.07	<2	3	14	<20	0.11	<10	<10	35	690	6		<0.005
W797817	0.3	1.36	4	<10	10	<0.5	<2	5.12	<0.5	4	77	280	1.89	<10	<1	0.06	<10	0.24	787	1325	0.02	4	120	2	0.07	<2	3	16	<20	0.12	<10	<10	50	890	9		<0.005
W797818	10.8	0.7	7	<10	20	<0.5	54	5.72	0.5	7	44	>10000	3.69	<10	<1	0.06	<10	0.3	722	2040	0.01	12	440	6	0.49	2	1	28	<20	0.09	<10	<10	75	2410	10	1.015	0.151
W797819	0.7	0.95	3	<10	20	<0.5	<2	5.25	<0.5	5	50	712	1.46	<10	<1	0.04	<10	0.45	616	728	0.01	11	420	2	0.05	<2	2	66	<20	0.11	<10	<10	39	1650	15		0.009
W797820	0.5	0.68	<2	<10	<10	<0.5	2	7.9	<0.5	4	14	627	1.83	<10	<1	<0.01	<10	0.32	899	697	<0.01	7	70	2	0.05	<2	1	74	<20	0.08	<10	<10	35	930	11		0.006
W797821	0.5	1.74	4	<10	<10	<0.5	2	8	<0.5	10	35	962	2.37	<10	<1	0.01	10	1.45	1290	221	<0.01	18	1230	4	0.07	2	4	152	<20	0.08	<10	<10	40	270	43		<0.005
W797822	2.6	1.78	2	<10	90	<0.5	9	10	0.7	13	29	4690	3.24	<10	<1	0.08	<10	1.44	1415	217	0.01	22	730	12	0.38	3	3	246	<20	0.07	<10	<10	42	420	44		0.02
W797823	<0.2	3.16	3	<10	40	<0.5	<2	5.76	<0.5	24	29	324	4.92	10	<1	0.22	10	2.78	1045	4	0.01	21	1120	5	<0.01	<2	6	145	<20	0.04	<10	<10	76	<10	111		<0.005
W797824	<0.2	3.71	2	<10	310	<0.5	<2	4.17	<0.5	33	81	62	5.57	10	<1	0.15	10	3.33	949	2	0.02	31	1360	3	<0.01	<2	10	216	<20	0.03	<10	<10	112	<10	174		<0.005
W797825	0.2	0.02	<2	<10	20	<0.5	<2	>25.0	<0.5	1	<1	2	0.08	<10	<1	0.01	<10	0.58	81	<1	0.01	3	90	<2	<0.01	<2	<1	100	<20	<0.01	<10	<10	1	<10	2		<0.005
W797826	<0.2	2.27	7	<10	150	<0.5	<2	7.4	<0.5	13	17	185	3.8	10	<1	0.08	<10	1.34	1085	109	0.02	9	1140	2	0.01	<2	5	132	<20	0.07	<10	<10	53	<10	99		<0.005
W797827	<0.2	1.6	9	<10	<10	<0.5	<2	8.4	<0.5	4	15	23	3.27	<10	<1	<0.01	<10	0.36	1115	13	0.01	2	450	<2	<0.01	<2	2	21	<20	0.08	<10	<10	18	<10	14		<0.005
W797828	<0.2	0.84	26	<10	<10	<0.5	<2	7.9	<0.5	5	12	174	4.29	<10	<1	<0.01	<10	0.45	898	64	<0.01	3	1010	<2	0.01	<2	1	11	<20	0.03	<10	<10	12	<10	12		<0.005

W797829	0.6	0.97	74	<10	<10	<0.5	30	13	0.9	5	26	3880	10.2	10	<1	<0.01	<10	0.25	1310	92	<0.01	3	670	7	0.34	<2	1	4	<20	0.03	<10	<10	16	<10	5		0.006
W797830	5.5	2.15	28	<10	<10	<0.5	13	11.9	1	6	9	3020	6.64	<10	<1	<0.01	<10	0.31	1865	28	0.01	3	560	6	0.12	<2	1	5	<20	0.12	<10	<10	20	<10	13		0.036
W797831	54.5	2.06	34	<10	<10	<0.5	38	12	3.2	17	10	>10000	8.57	10	<1	<0.01	<10	0.18	1820	2310	<0.01	30	400	17	1.7	2	1	5	<20	0.11	<10	<10	21	<10	14	2.88	0.34
W797832	6.9	2.11	15	<10	<10	<0.5	7	14.8	1	8	10	3490	8.99	10	<1	<0.01	<10	0.41	2050	143	<0.01	7	180	6	0.21	<2	1	13	<20	0.05	<10	<10	14	<10	15		0.064
W797833	<0.2	2.35	15	<10	<10	<0.5	<2	14.9	0.8	5	10	553	9.16	10	<1	<0.01	<10	0.21	2410	162	<0.01	3	200	2	0.05	<2	1	7	<20	0.06	<10	<10	18	<10	11		<0.005
W797834	0.8	1.89	29	<10	<10	<0.5	<2	14.5	0.9	7	13	6980	10.05	10	<1	<0.01	<10	0.19	2110	3120	<0.01	4	470	6	0.88	2	2	7	<20	0.11	<10	<10	22	<10	11		0.008
W797835	1.6	2.2	93	<10	<10	<0.5	<2	15	1.1	17	8	>10000	10.45	10	<1	<0.01	<10	0.37	2380	152	<0.01	12	450	5	1.11	<2	1	9	<20	0.07	10	<10	18	<10	27	1.14	0.017
W797836	4.2	1.07	288	<10	<10	<0.5	<2	13.3	1.8	25	17	>10000	11.6	<10	<1	<0.01	10	0.39	1785	16	<0.01	11	660	4	2.07	<2	1	3	<20	0.03	<10	10	17	<10	29	2.33	0.024
W797837	1	0.59	145	<10	<10	<0.5	<2	13.4	0.7	20	18	4840	14.4	10	<1	<0.01	<10	0.58	1380	226	<0.01	7	780	6	0.44	<2	1	5	<20	0.02	<10	10	15	20	25		0.007
W797838	1	0.37	70	<10	<10	<0.5	4	15.4	0.9	5	11	4360	14.8	10	<1	<0.01	<10	0.46	1665	383	0.01	<1	470	7	0.4	<2	<1	4	<20	0.01	<10	10	18	20	18		0.013
W797839	0.5	0.25	30	<10	<10	<0.5	<2	10.8	0.6	6	11	2780	10.1	10	<1	<0.01	<10	0.57	1350	256	<0.01	1	500	4	0.29	<2	<1	3	<20	0.01	<10	10	21	10	24		<0.005
W797840	4.7	0.72	24	<10	<10	<0.5	5	16.9	29	35	11	>10000	9.15	10	1	0.01	<10	0.6	3730	147	0.02	9	600	124	1.73	<2	<1	36	<20	0.01	<10	10	10	20	4800	1.255	0.02
W797841	<0.2	3.39	3	<10	140	0.5	<2	3.25	<0.5	24	190	141	3.68	10	<1	0.08	10	3.01	1155	3	0.17	85	2100	3	0.02	<2	5	342	<20	0.23	<10	<10	75	<10	128		<0.005
W797842	0.3	3.04	3	<10	80	<0.5	<2	3.57	<0.5	26	195	1450	4.33	10	<1	0.06	10	3	1335	42	0.13	88	2050	6	0.16	<2	4	223	<20	0.23	<10	<10	72	<10	162		<0.005
W797843	10.8	0.31	60	<10	<10	<0.5	61	9.5	<0.5	42	12	>10000	29.7	10	<1	<0.01	<10	0.18	1840	818	<0.01	14	770	13	1.06	<2	<1	8	<20	0.01	10	10	13	20	61	1.05	0.267
W797844	6.9	0.52	53	<10	<10	<0.5	50	7.7	<0.5	65	14	>10000	34.8	10	<1	<0.01	<10	0.5	1880	220	<0.01	18	600	12	1.31	<2	1	21	<20	0.02	10	10	12	<10	143	1.25	0.196
W797845	5.4	0.63	246	<10	<10	<0.5	11	6.18	<0.5	73	23	7230	30.9	<10	<1	0.01	10	0.57	2260	9	0.01	11	550	8	1.09	<2	1	9	<20	0.03	10	10	13	10	400		0.084
W797846	1.1	3.4	15	<10	50	<0.5	<2	3.8	<0.5	33	205	1955	5.66	10	<1	0.04	<10	3.66	1190	4	0.06	64	590	3	0.4	<2	9	157	<20	0.16	<10	<10	90	<10	87		0.011
W797847	1.2	3.86	15	<10	80	<0.5	3	4.74	<0.5	41	190	3140	5.04	10	<1	0.06	<10	3.9	1305	59	0.05	174	630	2	0.45	<2	11	262	<20	0.17	<10	<10	103	<10	85		0.019
W797848	7.7	1.44	29	<10	50	<0.5	4	4.99	2.6	142	26	>10000	6.75	<10	<1	0.04	<10	1.14	1045	6	0.01	523	720	38	6.68	<2	2	188	<20	0.05	<10	<10	24	<10	424	1.66	0.057
W797849	7.4	0.59	55	<10	<10	<0.5	3	4.25	2.1	228	12	>10000	14	<10	1	<0.01	<10	0.32	671	4	<0.01	588	850	6	>10.0	<2	2	85	<20	0.07	<10	<10	12	<10	454	2.13	0.024
W797850	0.2	0.02	<2	<10	10	<0.5	<2	>25.0	<0.5	1	1	85	0.16	<10	<1	0.01	<10	0.71	81	<1	<0.01	5	90	<2	0.07	2	<1	96	<20	<0.01	<10	<10	1	<10	3		<0.005
W797851	3.2	0.59	67	<10	20	<0.5	<2	4.84	2.7	294	14	7050	14.45	<10	1	0.01	<10	0.3	736	5	<0.01	525	1700	7	>10.0	<2	2	141	<20	0.06	10	<10	17	<10	545		0.022
W797852	43.5	0.43	26	<10	10	<0.5	2	4.06	10.5	241	6	>10000	21.8	<10	<1	0.01	<10	0.46	863	9	0.01	680	370	9	>10.0	<2	1	45	<20	0.01	<10	<10	7	<10	1790	12.8	0.268
W797853	7	0.27	31	<10	<10	<0.5	3	3.7	2.4	417	8	>10000	23.3	<10	1	<0.01	<10	0.44	937	20	<0.01	300	330	5	>10.0	<2	1	33	<20	0.02	10	<10	13	<10	646	1.565	0.062
W797854	50.4	0.73	15	<10	20	<0.5	<2	3.29	16.6	74	6	>10000	15.7	<10	<1	0.06	<10	0.58	897	127	<0.01	208	520	3	>10.0	<2	1	53	<20	0.02	<10	<10	9	<10	3110	15.25	0.106
W797855	2.4	0.92	79	<10	<10	<0.5	3	6.8	2.7	15	12	>10000	4.79	<10	<1	<0.01	<10	0.29	1180	26	<0.01	18	820	3	1.32	2	2	13	<20	0.06	<10	20	17	<10	442	1.035	0.012
W797856	2.7	1.29	30	<10	30	<0.5	11	5.52	0.9	23	12	8850	3.73	<10	<1	0.06	10	0.4	1100	358	0.02	49	880	9	1.36	<2	1	74	<20	0.11	<10	<10	22	<10	106		0.03
W797857	55.7	0.28	47	<10	10	<0.5	2	5.92	11.2	160	12	>10000	19.1	<10	1	<0.01	<10	0.51	1295	5	<0.01	246	850	8	>10.0	<2	3	52	<20	0.02	<10	<10	9	<10	2920	14.75	0.254
W797858	55.3	0.28	44	<10	20	<0.5	<2	3.81	12.5	210	6	>10000	21.2	<10	1	0.01	<10	0.43	918	10	<0.01	440	450	21	>10.0	<2	<1	90	<20	0.01	<10	<10	4	<10	3760	15.3	0.526
W797859	18.6	1.87	20	<10	50	<0.5	<2	3.77	7.3	121	27	>10000	11.35	10	<1	0.04	<10	2.01	1295	1	0.05	252	570	16	8.75	<2	3	176	<20	0.08	<10	<10	38	<10	3120	5.48	0.168
W797860	13.5	0.39	15	<10	<10	<0.5	4	3.23	11.9	39	22	>10000	6.42	10	2	<0.01	<10	0.84	2720	3	<0.01	95	2260	18	6.01	<2	<1	8	<20	0.02	<10	<10	9	<10	4980	3.6	0.121
W797861	10	0.32	9	<10	<10	<0.5	<2	1.57	43.8	74	12	>10000	7.24	30	3	<0.01	<10	0.66	2490	<1	<0.01	116	570	9	7.8	<2	<1	4	<20	0.02	<10	<10	7	<10	>10000	2.84	0.072
W797862	19.3	0.16	6	<10	<10	<0.5	<2	6.16	15.4	136	7	>10000	11.25	<10	1	<0.01	<10	0.56	1795	3	<0.01	274	1180	9	>10.0	<2	<1	17	<20	0.01	<10	<10	3	<10	4440	5.74	0.675
W797863	27.7	0.22	17	<10	<10	<0.5	<2	5.57	17.5	396	9	>10000	19.25	<10	2	<0.01	<10	0.6	1755	10	<0.01	451	990	12	>10.0	<2	<1	22	<20	0.01	<10	<10	5	<10	4100	7.74	0.198
W797864	28.5	0.24	12	<10	<10	<0.5	<2	4.45	14.3	385	9	>10000	14.7	<10	1	<0.01	<10	0.71	1215	11	0.01	323	1040	15	>10.0	<2	<1	19	<20	0.01	<10	<10	7	<10	3050	7.6	0.268

W797865	4.6	0.35	19	<10	<10	<0.5	30	5.16	1.3	91	15	>10000	22.8	10	1	<0.01	<10	0.74	2050	2570	<0.01	96	600	9	2.89	<2	<1	11	<20	0.02	<10	10	29	10	194	1.265	0.1
W797866	2	0.16	11	<10	<10	<0.5	15	1.48	<0.5	56	10	9000	37.8	10	1	<0.01	<10	0.52	1750	1020	<0.01	77	340	7	0.86	<2	<1	4	<20	0.01	10	<10	34	<10	121		0.061
W797867	1.3	0.25	27	<10	<10	<0.5	29	3.03	<0.5	70	16	7020	36.7	10	1	<0.01	<10	0.4	2070	1005	<0.01	70	550	12	0.72	<2	<1	4	<20	0.01	10	10	29	20	190		0.009
W797868	3.3	0.36	26	<10	<10	<0.5	15	1.23	<0.5	67	25	>10000	28.9	10	1	0.02	<10	1.18	2020	282	<0.01	31	290	3	0.85	<2	<1	2	<20	0.02	<10	10	16	20	283	0.993	0.075
W797869	11.1	0.38	56	<10	<10	<0.5	101	3.04	0.5	24	13	>10000	15.5	10	<1	<0.01	10	0.68	687	2780	<0.01	25	950	7	0.96	<2	<1	9	<20	0.02	10	30	27	110	40	1.445	0.378
W797870	4.9	0.1	5	<10	<10	<0.5	40	1.67	<0.5	21	9	8160	14.55	10	<1	<0.01	10	0.78	365	538	<0.01	32	560	4	0.4	<2	<1	8	<20	0.01	<10	10	57	170	28		0.104
W797871	1.3	0.78	36	<10	<10	<0.5	11	6.46	<0.5	5	8	2850	5.73	10	<1	<0.01	<10	0.54	911	126	<0.01	7	720	2	0.17	<2	<1	14	<20	0.02	<10	10	30	110	13		0.023
W797872	12.1	0.48	11	<10	<10	<0.5	43	3.71	0.6	4	5	>10000	2.4	<10	<1	<0.01	<10	0.38	585	147	<0.01	5	960	8	0.81	<2	<1	10	<20	0.02	<10	<10	16	10	10	1.57	0.127
W797873	5	0.63	5	<10	<10	<0.5	12	4.41	<0.5	4	7	6170	2.37	<10	<1	<0.01	<10	0.48	731	213	<0.01	3	590	2	0.3	<2	<1	12	<20	0.03	<10	<10	14	10	11		0.091
W797874	0.8	1.73	7	<10	10	<0.5	<2	6.75	<0.5	3	15	2250	3.29	10	<1	0.03	<10	0.16	1000	51	0.02	3	680	2	0.24	<2	2	47	<20	0.05	<10	<10	47	10	9		0.007
W797875	0.2	0.02	<2	<10	20	<0.5	<2	>25.0	<0.5	<1	<1	49	0.1	<10	<1	0.01	<10	0.71	83	1	<0.01	3	80	2	<0.01	<2	<1	96	<20	<0.01	<10	<10	1	<10	4		<0.005
W797876	0.3	1.86	8	<10	10	<0.5	3	7.7	<0.5	7	6	2850	4.46	10	<1	0.02	<10	0.22	1240	158	0.02	6	590	2	0.26	2	1	71	<20	0.07	<10	<10	46	80	12		<0.005
W797877	1.1	1.59	8	<10	10	<0.5	6	4.92	<0.5	6	11	6930	3	<10	<1	0.02	<10	0.15	907	339	0.01	6	600	<2	0.58	<2	2	45	<20	0.04	<10	<10	26	180	8		0.018
W797878	3.8	1.04	3	<10	<10	<0.5	29	5.8	<0.5	7	7	6990	4.26	10	<1	<0.01	<10	0.26	989	586	<0.01	6	200	3	0.45	<2	1	23	<20	0.04	<10	<10	43	390	8		0.053
W797879	1.6	1.05	4	<10	<10	<0.5	7	8.1	0.8	5	12	2540	6.25	10	<1	<0.01	<10	0.42	1175	352	<0.01	8	180	5	0.14	<2	1	12	<20	0.04	<10	<10	63	140	16		0.022
W797880	11.3	0.38	4	<10	<10	<0.5	76	5.04	0.9	10	3	>10000	6.31	10	<1	<0.01	<10	0.53	859	1365	<0.01	20	830	6	0.69	2	<1	15	<20	0.01	<10	<10	41	280	22	1.74	0.207
W797881	4	1.73	<2	<10	20	<0.5	23	1.84	<0.5	2	9	5510	0.57	<10	<1	0.04	10	0.14	118	287	0.11	5	580	4	0.26	2	<1	259	<20	0.06	<10	10	9	10	7		0.077
W797882	2.2	4.04	4	<10	20	<0.5	5	4.12	<0.5	6	20	3670	0.66	10	<1	0.04	10	0.32	187	351	0.19	12	1640	<2	0.3	<2	1	361	<20	0.16	<10	<10	23	140	14		0.029
W797883	0.9	5.04	4	<10	40	0.6	4	4.65	<0.5	3	10	1730	0.41	10	<1	0.04	10	0.26	145	120	0.31	9	1100	3	0.16	<2	1	506	<20	0.12	<10	<10	18	100	13		0.012
W797884	<0.2	1.05	<2	<10	30	<0.5	<2	2.07	<0.5	4	8	420	0.81	<10	1	0.04	10	0.37	170	33	0.1	8	850	<2	0.07	<2	1	127	<20	0.11	<10	<10	29	<10	12		<0.005
W797885	<0.2	0.73	<2	<10	20	<0.5	<2	0.96	<0.5	4	11	178	1.02	<10	<1	0.04	10	0.32	115	45	0.1	10	750	2	0.09	<2	1	57	<20	0.12	<10	<10	34	<10	12		<0.005

CP-18-06

Certificate: WH19056885 – Finalized; # of SAMPLES : 135

DATE RECEIVED : 2019-03-08 DATE FINALIZED : 2019-04-03, PROJECT : "COWLEY PARK", PO NUMBER : "CP-18-06"

SAMPLE DESCRIPTION	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Cu %	Mo %
W797601	<0.005	0.6	0.48	2	<10	30	<0.5	2	22.50	0.8	4	7	455	0.67	<10	<1	0.08	<10	0.23	409	1	0.01	5	390	11	0.1	<2	1	480	<20	0.04	<10	<10	14	<10	64		
W797602	0.006	0.4	0.34	2	<10	20	<0.5	3	>25.0	0.9	4	1	226	0.5	<10	<1	0.03	<10	0.11	160	4	0.05	8	290	5	0.3	<2	<1	637	<20	<0.01	<10	<10	1	<10	54		
W797603	<0.005	0.4	0.31	2	<10	10	<0.5	2	>25.0	1.1	4	1	214	0.75	<10	<1	0.02	<10	0.07	133	8	0.06	11	290	3	0.46	<2	<1	650	<20	<0.01	<10	<10	1	<10	60		
W797604	0.006	0.6	0.24	7	<10	20	<0.5	2	>25.0	1.3	5	1	591	0.46	<10	<1	0.04	<10	0.09	239	5	0.04	7	230	2	0.28	<2	<1	613	<20	<0.01	<10	<10	2	<10	91		
W797605	<0.005	0.2	0.74	10	<10	20	<0.5	2	16.1	<0.5	2	3	91	0.58	<10	<1	0.02	<10	0.08	315	3	0.02	2	520	4	0.06	<2	1	288	<20	0.02	<10	<10	8	<10	28		
W797606	<0.005	0.2	1.39	7	<10	30	<0.5	<2	6.35	<0.5	2	5	165	0.67	<10	<1	0.04	10	0.16	385	7	0.04	2	560	4	0.13	<2	1	117	<20	0.04	<10	<10	10	<10	35		
W797607	<0.005	0.2	1.35	7	<10	30	0.5	<2	8.8	<0.5	3	6	93	0.64	<10	<1	0.04	<10	0.23	384	13	0.05	3	670	7	0.19	<2	1	167	<20	0.06	<10	<10	12	<10	44		
W797608	<0.005	0.5	1.85	8	<10	110	0.5	<2	5.32	6.7	7	5	396	1.05	<10	<1	0.1	<10	0.73	271	3	0.05	5	790	9	0.1	<2	1	193	<20	0.07	<10	<10	18	<10	1210		
W797609	<0.005	0.3	1.38	11	<10	100	<0.5	<2	5.88	1.9	7	5	236	1.01	<10	<1	0.07	<10	0.38	199	2	0.05	7	810	6	0.33	<2	1	190	<20	0.06	<10	<10	15	<10	259		
W797610	<0.005	0.2	1.21	10	<10	20	0.7	<2	9.8	<0.5	1	5	26	0.56	<10	<1	0.02	10	0.3	512	12	0.01	2	750	4	0.05	<2	1	115	<20	0.06	<10	<10	11	<10	50		
W797611	<0.005	0.7	1.07	30	<10	70	<0.5	<2	3.92	0.9	12	6	770	1.59	<10	<1	0.06	<10	0.1	104	10	0.06	13	830	12	1.32	<2	1	159	<20	0.06	<10	<10	14	<10	131		
W797612	<0.005	0.3	0.89	25	<10	90	<0.5	<2	2.48	<0.5	9	10	296	1.72	<10	<1	0.15	10	0.22	103	8	0.07	10	780	9	0.67	<2	1	191	<20	0.07	<10	<10	18	<10	55		
W797613	<0.005	<0.2	0.81	54	<10	40	<0.5	<2	7.5	0.7	8	5	118	2.27	<10	<1	0.08	<10	0.51	125	38	0.08	14	740	8	1.51	2	<1	289	<20	0.06	<10	<10	11	<10	68		
W797614	<0.005	0.2	0.42	<2	<10	30	<0.5	<2	>25.0	<0.5	1	1	4	0.29	<10	<1	0.05	<10	0.11	110	17	0.14	5	180	2	0.18	<2	<1	926	<20	<0.01	<10	<10	2	<10	13		
W797615	<0.005	0.2	1.73	7	<10	40	<0.5	2	8.6	<0.5	4	5	145	0.79	<10	<1	0.05	<10	0.07	403	3	0.03	3	680	4	0.29	<2	1	182	<20	0.04	<10	<10	11	<10	70		
W797616	<0.005	0.4	1.76	5	<10	20	<0.5	<2	8.1	<0.5	6	4	397	0.86	<10	<1	0.04	<10	0.12	412	8	0.02	3	700	5	0.47	<2	1	139	<20	0.04	<10	<10	11	<10	67		
W797617	<0.005	0.2	1.17	7	<10	<10	<0.5	<2	7.8	<0.5	2	5	49	0.62	<10	<1	0.07	<10	0.04	932	10	0.01	1	850	2	0.05	<2	1	36	<20	0.04	<10	<10	12	<10	24		
W797618	<0.005	0.2	0.65	25	<10	30	<0.5	<2	5.38	<0.5	6	6	190	1.38	<10	<1	0.06	<10	0.08	464	47	0.05	7	830	4	0.74	<2	1	90	<20	0.06	<10	<10	12	<10	58		
W797619	<0.005	0.2	0.83	91	<10	70	<0.5	<2	2.54	<0.5	10	20	132	2.82	<10	<1	0.3	10	0.49	145	35	0.09	17	920	4	1.71	<2	3	90	<20	0.11	<10	<10	35	<10	44		
W797620	<0.005	0.3	0.53	<2	<10	30	<0.5	2	>25.0	<0.5	3	1	19	0.52	<10	<1	0.04	<10	0.03	141	9	0.12	10	320	5	0.31	2	<1	948	<20	0.01	<10	<10	2	<10	36		
W797621	<0.005	0.4	1.07	3	<10	20	<0.5	<2	>25.0	<0.5	3	1	23	0.84	<10	<1	0.14	<10	0.02	128	7	0.46	8	340	6	0.55	<2	<1	1055	<20	0.01	<10	<10	1	<10	46		
W797622	<0.005	0.4	1.14	20	20	<10	0.7	2	10.6	<0.5	2	6	24	0.48	<10	<1	0.02	10	0.12	431	1	0.01	3	950	2	0.02	<2	1	123	<20	0.04	<10	<10	10	<10	52		
W797623	<0.005	0.3	1.91	11	<10	100	<0.5	<2	6.7	0.5	4	4	183	1.16	<10	<1	0.04	<10	0.04	400	8	0.02	3	910	8	0.83	<2	1	249	<20	0.05	<10	<10	12	<10	140		
W797624	<0.005	0.3	1.08	8	10	20	0.5	2	9.5	<0.5	3	4	60	0.51	<10	<1	0.02	<10	0.09	449	1	0.01	2	750	6	0.11	2	1	89	<20	0.03	<10	<10	10	<10	42		
W797625	<0.005	0.2	0.04	<2	<10	10	<0.5	2	>25.0	<0.5	1	<1	3	0.08	<10	<1	0.01	<10	0.48	75	<1	<0.01	1	80	<2	0.01	<2	<1	99	<20	<0.01	<10	<10	<1	<10	2		
W797626	<0.005	0.4	0.79	7	10	10	<0.5	<2	16.2	1.5	6	3	162	0.56	<10	<1	0.01	<10	0.1	478	2	0.01	5	490	8	0.2	<2	1	221	<20	0.03	<10	<10	6	<10	359		
W797627	<0.005	0.3	0.52	5	<10	30	<0.5	3	>25.0	<0.5	2	1	10	0.34	<10	<1	0.05	<10	0.1	111	17	0.13	5	190	<2	0.19	<2	<1	938	<20	<0.01	<10	<10	2	<10	14		
W797628	<0.005	0.3	0.74	6	<10	30	<0.5	3	>25.0	<0.5	3	1	12	0.63	<10	<1	0.06	<10	0.14	106	6	0.15	5	350	4	0.35	<2	<1	953	<20	0.01	<10	<10	1	<10	24		
W797629	0.005	0.6	0.61	15	<10	10	<0.5	2	20.9	0.7	8	3	1210	0.95	<10	<1	0.01	<10	0.15	322	62	0.01	14	450	30	0.5	<2	1	1000	<20	0.02	<10	<10	7	<10	51		
W797630	0.005	0.7	0.29	10	<10	20	<0.5	2	>25.0	0.8	4	5	446	0.65	<10	<1	0.01	<10	0.14	125	8	0.01	13	350	5	0.18	2	<1	1945	<20	0.01	<10	<10	4	<10	35		
W797631	0.011	5.3	0.85	17	<10	<10	0.6	31	11.40	0.5	3	29	3940	0.8	<10	<1	0.01	10	0.23	854	1805	<0.01	7	1220	8	0.37	6	2	97	<20	0.06	<10	10	16	<10	18		

W797632	0.022	13.1	0.62	12	<10	<10	0.7	58	17.3	1.2	5	21	>10000	0.8	<10	<1	0.02	10	0.04	1150	546	<0.01	18	870	11	0.5	3	1	125	<20	0.04	<10	10	12	<10	58	1	
W797633	0.026	8.7	0.72	23	<10	<10	0.6	27	13	0.8	4	28	6400	0.84	<10	<1	<0.01	10	0.03	925	>10000	<0.01	7	940	11	1.68	<2	1	90	<20	0.05	<10	10	7	<10	31		2.35
W797634	<0.005	0.6	0.15	4	<10	40	<0.5	3	>25.0	0.7	5	4	808	0.49	<10	<1	<0.01	<10	0.03	105	91	<0.01	24	450	3	0.27	2	<1	2940	<20	0.01	<10	10	2	<10	53		
W797635	0.014	9.5	0.7	17	<10	10	0.5	32	17.6	1	11	26	7210	0.81	<10	<1	<0.01	10	0.04	568	139	<0.01	128	1120	13	0.43	2	1	1120	<20	0.04	<10	10	18	<10	35		
W797636	<0.005	0.3	0.52	5	<10	<10	<0.5	<2	16.6	<0.5	1	38	447	0.43	<10	<1	<0.01	<10	0.03	703	62	<0.01	3	590	4	0.06	<2	1	136	<20	0.03	<10	<10	8	<10	12		
W797637	<0.005	0.8	1.45	26	10	<10	0.8	5	7	<0.5	2	36	1910	1.33	<10	<1	<0.01	10	0.1	633	10	0.01	9	1340	2	0.18	4	2	65	<20	0.08	<10	<10	26	<10	18		
W797638	0.009	1	1.11	37	30	<10	1.3	28	8.5	<0.5	4	19	3750	1.11	<10	<1	<0.01	10	0.1	486	4	<0.01	12	1010	13	0.36	8	1	166	<20	0.07	<10	<10	17	<10	25		
W797639	<0.005	0.3	0.45	3	<10	10	<0.5	2	>25.0	<0.5	3	2	90	0.59	<10	<1	0.02	<10	0.06	153	4	0.04	10	570	5	0.34	<2	<1	1240	<20	0.01	<10	<10	2	<10	34		
W797640	<0.005	0.3	0.51	2	<10	<10	<0.5	2	>25.0	<0.5	3	1	130	0.69	<10	<1	0.04	<10	0.03	118	3	0.09	7	660	5	0.42	<2	<1	926	<20	0.01	<10	<10	1	<10	14		
W797641	<0.005	0.3	0.46	10	<10	10	<0.5	<2	17	<0.5	2	3	101	0.29	<10	<1	0.01	<10	0.06	363	230	0.01	3	1130	4	0.09	<2	<1	463	<20	0.02	<10	<10	4	<10	29		
W797642	<0.005	0.3	0.61	5	<10	10	<0.5	2	21.2	1.5	4	1	58	0.58	<10	<1	0.02	<10	0.05	113	4	0.07	12	980	24	0.39	<2	<1	819	<20	0.02	<10	<10	2	<10	90		
W797643	<0.005	<0.2	0.32	2	<10	40	<0.5	2	>25.0	<0.5	2	2	6	0.35	<10	<1	0.04	<10	0.18	79	4	0.04	3	290	8	0.18	<2	<1	996	<20	0.01	<10	<10	2	<10	13		
W797644	<0.005	0.3	0.12	2	<10	20	<0.5	<2	>25.0	<0.5	1	1	13	0.25	<10	<1	0.02	<10	0.36	69	3	0.01	3	190	5	0.09	<2	<1	797	<20	<0.01	<10	<10	1	<10	11		
W797645	<0.005	0.2	0.25	4	<10	<10	<0.5	3	>25.0	<0.5	2	1	9	0.26	<10	<1	0.01	<10	0.04	73	1	0.04	4	710	12	0.15	<2	<1	714	<20	0.01	<10	<10	1	<10	14		
W797646	<0.005	0.3	0.21	<2	<10	10	<0.5	3	>25.0	<0.5	2	1	58	0.29	<10	<1	0.01	<10	0.12	135	2	0.03	4	710	2	0.12	<2	<1	643	<20	0.01	<10	<10	1	<10	12		
W797647	0.008	0.7	1.16	9	<10	40	<0.5	<2	6.23	<0.5	15	23	1090	2.7	<10	<1	0.01	<10	0.16	379	6	0.03	17	960	3	0.12	<2	3	183	<20	0.06	<10	<10	28	<10	50		
W797648	<0.005	0.7	0.89	7	<10	20	<0.5	<2	2.48	<0.5	13	23	1570	2.35	<10	<1	0.01	10	0.18	184	29	0.05	20	1250	<2	1.31	<2	3	177	<20	0.08	<10	<10	27	<10	47		
W797649	<0.005	0.3	0.92	3	<10	60	<0.5	2	2.22	<0.5	10	21	797	1.24	<10	<1	0.07	20	0.43	232	62	0.09	15	1130	2	0.61	<2	1	122	<20	0.21	<10	<10	28	<10	29		
W797650	<0.005	0.2	0.04	<2	<10	10	<0.5	<2	>25.0	<0.5	1	<1	12	0.08	<10	<1	0.01	<10	0.46	72	<1	<0.01	1	80	<2	0.01	<2	<1	99	<20	<0.01	<10	<10	1	<10	<2		
W797651	<0.005	0.3	1.09	3	<10	20	<0.5	3	7.3	<0.5	6	27	258	1.43	<10	<1	0.02	20	0.49	752	45	0.02	13	1460	<2	0.01	<2	2	151	<20	0.27	<10	<10	41	<10	26		
W797652	<0.005	0.5	1.55	6	<10	40	<0.5	2	4.5	<0.5	3	30	273	1.14	<10	<1	0.04	10	0.23	514	15	0.05	7	1140	<2	0.03	<2	2	80	<20	0.08	<10	<10	25	<10	14		
W797653	0.015	5.7	1.34	4	<10	30	<0.5	12	3.11	<0.5	9	49	8180	1.36	<10	<1	0.02	10	0.57	354	32	0.05	22	1580	8	0.58	2	2	107	<20	0.09	<10	<10	25	<10	39		
W797654	<0.005	0.6	1.76	4	<10	90	<0.5	3	7.7	<0.5	5	44	320	1.63	<10	<1	0.04	<10	0.53	928	6	0.01	10	900	5	0.01	<2	3	130	<20	0.08	<10	<10	25	<10	35		
W797655	<0.005	0.5	1.95	5	<10	90	<0.5	<2	4.51	<0.5	3	17	356	1.13	<10	<1	0.06	<10	0.16	538	52	0.1	5	930	<2	0.02	<2	1	208	<20	0.04	<10	<10	20	<10	14		
W797656	<0.005	0.5	1.92	9	<10	80	<0.5	2	7.5	<0.5	3	25	490	1.92	<10	<1	0.04	<10	0.14	956	20	0.04	6	760	3	0.01	<2	2	179	<20	0.05	<10	<10	23	<10	20		
W797657	<0.005	0.2	1.02	10	<10	10	<0.5	2	7.5	<0.5	3	30	266	1.37	<10	<1	<0.01	<10	0.12	875	3	<0.01	6	990	3	<0.01	<2	2	44	<20	0.06	<10	<10	16	<10	19		
W797658	<0.005	0.9	1.36	11	<10	40	<0.5	<2	4.22	<0.5	19	73	1750	1.19	<10	<1	0.04	10	0.58	435	29	0.05	19	1450	2	0.35	<2	3	117	<20	0.09	<10	<10	27	<10	39		
W797659	<0.005	0.7	1.38	7	<10	60	<0.5	2	3.66	<0.5	11	43	1395	1.02	<10	1	0.06	10	0.43	382	16	0.07	15	1050	3	0.33	<2	2	152	<20	0.09	<10	<10	24	<10	36		
W797660	<0.005	0.4	1.86	9	<10	<10	<0.5	<2	7.7	<0.5	3	31	80	2.23	10	<1	0.01	<10	0.19	1205	3	<0.01	4	620	<2	<0.01	<2	3	25	<20	0.06	<10	<10	26	<10	15		
W797661	<0.005	0.3	1.89	7	<10	<10	<0.5	<2	7.5	<0.5	2	23	25	2.21	10	<1	<0.01	<10	0.12	1140	2	<0.01	3	230	<2	<0.01	<2	2	10	<20	0.06	<10	<10	24	<10	10		
W797662	<0.005	<0.2	1.74	7	<10	20	<0.5	<2	5.75	<0.5	2	10	15	1.51	<10	<1	0.05	<10	0.19	1025	1	<0.01	3	440	2	<0.01	<2	2	13	<20	0.04	<10	<10	18	<10	10		
W797663	<0.005	0.2	1.89	10	<10	<10	<0.5	<2	6.59	<0.5	2	10	19	1.92	10	<1	<0.01	<10	0.14	1115	1	<0.01	1	540	2	<0.01	<2	1	10	<20	0.04	<10	<10	22	<10	9		
W797664	<0.005	0.3	1.66	24	<10	<10	<0.5	<2	7.2	<0.5	2	9	27	2.06	10	<1	<0.01	10	0.21	1155	1	<0.01	3	1490	3	<0.01	<2	1	23	20	0.04	<10	<10	23	<10	12		
W797665	<0.005	0.2	1.94	11	<10	<10	<0.5	<2	6.65	<0.5	2	8	19	1.75	10	<1	0.01	<10	0.19	1180	10	<0.01	2	640	3	<0.01	<2	1	13	<20	0.03	<10	<10	16	<10	10		
W797666	<0.005	0.3	1.35	3	<10	110	<0.5	2	3.24	<0.5	8	18	956	0.97	<10	<1	0.05	<10	0.54	371	56	0.08	5	390	9	0.28	<2	2	66	<20	0.04	<10	<10	23	<10	38		
W797667	0.008	0.8	1.07	9	<10	60	<0.5	4	3.68	<0.5	5	8	1405	0.89	<10	<1	0.05	<10	0.18	432	27	0.07	3	430	6	0.21	<2	1	106	<20	0.02	<10	<10	10	<10	21		
W797668	0.101	7.4	1.95	40	<10	10	0.8	43	10.8	0.7	3	13	6570	5.68	10	<1	0.02	10	0.15	1285	233	0.01	2	430	5	0.27	<2	2	33	<20	0.05	<10	20	21	<10	6		
W797669	0.01	1.4	2.64	33	<10	<10	0.7	9	8.6	<0.5	2	12	1100	2.47	10	<1	0.02	10	0.19	977	193	0.03	3	460	2	0.06	2	2	67	<20	0.05	<10	10	18	<10	9		
W797670	0.168	8.8	1.83	25	<10	<10	<0.5	60	10.5	0.8	2	15	9580	6.05	10	<1	0.01	<10	0.15	1395	272	0.01	2	620	8	0.39	<2	2	13	<20	0.07	<10	<10	23	<10	7		
W797671	0.055	6	1.79	54	<10	<10	<0.5	31	8.2	<0.5	3	18	6090	4.03	10	<1	0.02	10	0.16	1135	140	0.01	3	760	4	0.24	<2	3	20	<20	0.08	<10	10	25	10	8		
W797672	0.009	1	1.62	34	<10	20	0.6	4	4.8	<0.5	4	14	874	1.35	<10	<1	0.03	10	0.24	934	184	0.04	3	1040	3	0.05	<2	2	40	<20	0.09	<10	<10	22	50	11		
W797673	0.021	2.3	1.52	16	<10	10	<0.5	10	4.68	<0.5	3	11	2580	1.35	<10	<1	0.03	<10	0.18	822	100	0.04	2	510	3	0.13	<2	1	33	<20	0.06	<10	<10	16	10	9		
W797674	0.098	7.9	1.48	180	<10	10	<0.5	40	9.1	0.6	4	15	9570	5.94	10	<1	0.05	<10	0.33	909	25	0.03	2	560	5	0.44	<2	2	21	<20	0.07	<10	10	21	10	12		

W797675	<0.005	0.4	0.02	<2	<10	20	<0.5	3	>25.0	<0.5	1	<1	22	0.07	<10	<1	<0.01	<10	0.5	79	<1	<0.01	<1	60	<2	0.01	<2	<1	93	<20	<0.01	<10	<10	<1	<10	<2	
W797676	0.154	9.8	1.4	302	<10	<10	<0.5	58	11.3	1	4	22	9900	7.3	<10	<1	<0.01	<10	0.32	1010	6	<0.01	2	600	7	0.39	<2	3	12	<20	0.07	<10	10	23	<10	12	
W797677	0.074	6	1.23	268	<10	<10	<0.5	55	14.5	0.9	3	25	8320	9.91	10	<1	<0.01	10	0.21	1315	220	<0.01	1	760	5	0.43	<2	2	14	<20	0.04	<10	10	22	<10	7	
W797678	0.143	8.7	1.35	47	<10	<10	<0.5	64	15.1	1	4	13	>10000	11.6	10	<1	0.01	<10	0.13	1830	94	0.01	3	400	5	0.5	<2	1	14	<20	0.03	<10	10	23	<10	7	0.977
W797679	0.1	8	0.97	27	<10	<10	<0.5	72	14.7	1	5	13	>10000	11.05	10	<1	<0.01	<10	0.13	1925	6	<0.01	6	410	5	0.68	<2	1	17	<20	0.02	<10	10	23	<10	7	1.035
W797680	0.163	12.5	1.52	57	<10	10	<0.5	56	13.4	0.8	5	12	>10000	10	10	<1	0.05	10	0.15	1510	42	0.01	4	410	6	0.52	<2	1	29	<20	0.03	<10	10	18	<10	9	1.29
W797681	0.089	5.8	1.26	9	<10	<10	<0.5	19	13.8	0.8	4	9	6540	10.85	10	<1	<0.01	<10	0.16	1495	18	<0.01	2	250	3	0.28	<2	1	10	<20	0.02	<10	<10	16	<10	6	
W797682	0.048	4	1.59	4	<10	10	<0.5	9	6.9	<0.5	3	9	3060	3.5	10	<1	0.03	<10	0.25	1155	26	0.01	2	260	2	0.13	<2	1	16	<20	0.07	<10	<10	23	10	10	
W797683	0.103	7.4	1.94	10	<10	30	<0.5	20	7.3	<0.5	4	8	8180	3.95	10	<1	0.08	20	0.19	1130	158	0.06	4	1620	5	0.33	<2	3	88	30	0.15	<10	<10	45	10	12	
W797684	0.088	6.3	1.24	9	<10	<10	<0.5	18	6.8	<0.5	3	5	9920	2.61	10	<1	<0.01	30	0.12	933	168	<0.01	2	1410	4	0.58	<2	2	95	20	0.15	<10	<10	31	<10	7	
W797685	0.057	3	1.41	6	<10	<10	<0.5	16	7.5	<0.5	4	11	>10000	4.03	10	<1	<0.01	10	0.13	1120	692	<0.01	2	390	3	0.85	<2	2	70	30	0.1	<10	10	14	<10	8	1.005
W797686	0.055	4.4	1.74	7	<10	10	<0.5	11	8.6	<0.5	5	17	5970	5.35	10	<1	0.05	<10	0.15	1470	1500	0.02	2	430	4	0.45	<2	3	40	40	0.12	<10	10	17	<10	9	
W797687	0.09	6.2	1.43	10	<10	10	<0.5	16	9.4	<0.5	10	15	>10000	6.94	10	<1	0.03	<10	0.11	1475	7760	0.02	2	390	4	1.52	<2	2	50	40	0.11	<10	<10	15	<10	9	1.195
W797688	0.936	94.9	0.86	2	<10	<10	<0.5	67	3.25	3.8	36	6	>10000	4.77	<10	<1	<0.01	10	0.06	369	142	<0.01	15	400	45	2.5	<2	1	91	20	0.08	<10	10	6	<10	52	13
W797689	0.654	87.7	1.16	5	<10	<10	<0.5	57	4.44	3.3	39	7	>10000	3.69	<10	<1	<0.01	10	0.07	614	614	<0.01	14	320	43	3.16	<2	1	93	30	0.08	<10	10	9	<10	45	9.46
W797690	0.767	25.9	1.67	6	<10	<10	<0.5	20	5.15	1.2	9	6	>10000	2.96	10	<1	<0.01	20	0.09	744	247	<0.01	5	660	12	1.41	<2	1	139	20	0.09	<10	20	15	<10	16	3.01
W797691	0.405	40.4	1.62	3	<10	<10	<0.5	33	6.45	1.6	10	8	>10000	4.46	10	<1	<0.01	10	0.06	1080	457	0.01	4	200	20	2.02	<2	1	72	30	0.07	<10	10	20	<10	17	4.59
W797692	0.064	4.8	1.85	6	<10	30	<0.5	9	8.5	0.7	3	5	7230	4.95	10	<1	0.12	<10	0.14	1525	628	0.02	7	260	6	0.38	<2	1	36	<20	0.06	<10	<10	20	<10	11	
W797693	0.153	12.4	1.37	4	<10	<10	<0.5	21	8.6	1	14	7	>10000	7.07	10	<1	0.02	<10	0.25	1405	607	0.01	13	290	5	1.54	<2	1	53	<20	0.07	<10	<10	24	<10	20	2.05
W797694	0.417	36.8	1.14	4	<10	<10	<0.5	19	4.75	2	101	4	>10000	7.8	<10	<1	0.01	10	0.08	9060	106	<0.01	62	200	11	4.35	<2	<1	86	20	0.04	<10	<10	15	<10	31	7.19
W797695	0.05	4.1	2.21	3	<10	10	<0.5	9	13.7	0.6	8	8	5160	10.05	10	<1	0.05	<10	0.26	2640	79	0.02	10	240	3	0.35	<2	1	72	<20	0.03	<10	<10	41	<10	13	
W797696	0.193	8.4	1.52	4	<10	<10	<0.5	34	8.7	0.7	9	20	>10000	7.86	10	<1	0.02	<10	0.44	1585	1120	0.02	16	460	5	1.06	<2	2	52	<20	0.07	<10	<10	31	<10	21	1.415
W797697	0.083	6.1	1.77	10	<10	10	<0.5	12	7.6	0.5	4	26	6990	4.03	10	<1	0.05	10	0.41	1465	157	0.02	7	1600	2	0.35	<2	3	35	<20	0.1	<10	<10	43	<10	22	
W797698	0.058	2.8	1	2	<10	70	<0.5	11	1.06	<0.5	6	24	4780	1.56	<10	<1	0.18	10	0.72	2010	149	0.09	11	1270	3	0.35	<2	1	62	<20	0.17	<10	<10	43	<10	20	
W797699	0.05	3	1.13	2	<10	20	<0.5	12	1.77	<0.5	6	24	5180	1.27	<10	<1	0.05	10	0.82	2460	329	0.1	7	930	2	0.41	<2	2	86	<20	0.18	<10	<10	56	<10	20	
W797700	<0.005	<0.2	0.02	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	18	0.07	<10	<1	0.01	<10	0.44	67	1	<0.01	4	90	<2	<0.01	<2	<1	99	<20	<0.01	<10	<10	<1	<10	<2	
W797701	0.029	1.4	1.29	<2	<10	120	<0.5	6	1.22	<0.5	7	38	2920	2.17	<10	<1	0.27	10	0.92	242	143	0.14	7	1080	2	0.31	3	2	97	<20	0.31	<10	<10	104	<10	25	
W797702	0.128	5.5	1.17	<2	<10	30	<0.5	35	1.51	<0.5	6	25	>10000	1.8	<10	<1	0.07	10	0.48	195	190	0.14	9	1310	3	0.54	<2	2	106	<20	0.27	<10	<10	78	20	18	0.97
W797703	0.292	11.5	1.04	3	<10	10	<0.5	63	3	0.5	4	15	>10000	2.21	<10	<1	0.03	10	0.25	530	538	0.07	7	990	5	0.95	<2	2	149	<20	0.17	<10	<10	60	240	18	1.81
W797704	0.124	5.9	1.58	6	<10	10	<0.5	28	4.15	<0.5	3	16	8860	2.19	<10	<1	0.03	10	0.23	707	306	0.12	5	1180	4	0.48	<2	1	128	<20	0.13	<10	<10	39	130	14	
W797705	0.132	6.1	1.68	6	<10	10	<0.5	29	5.5	0.5	7	25	>10000	4.31	10	<1	0.03	10	0.44	1185	386	0.05	11	1050	<2	0.7	<2	3	137	<20	0.13	<10	<10	54	150	27	0.971
W797706	0.076	4.3	2.13	3	<10	10	<0.5	22	8.2	<0.5	3	33	6800	5.5	10	<1	0.03	10	0.17	1630	389	0.07	4	660	<2	0.46	<2	3	85	<20	0.1	<10	<10	56	100	11	
W797707	0.032	1.4	2.08	7	<10	10	<0.5	10	8	<0.5	3	69	4480	4.51	10	<1	0.03	10	0.28	1630	255	0.05	6	1060	<2	0.4	<2	8	55	<20	0.17	<10	<10	82	200	18	
W797708	0.036	1.5	2.48	2	<10	10	<0.5	14	9.5	<0.5	2	32	4150	5.49	10	<1	0.03	<10	0.23	2130	404	0.05	4	360	<2	0.39	<2	3	69	<20	0.11	<10	<10	59	80	14	
W797709	0.223	6.5	0.75	3	<10	20	<0.5	26	1.26	0.5	8	10	>10000	3.55	<10	<1	0.03	10	0.32	1710	1275	0.09	14	1400	2	2.11	<2	1	107	<20	0.13	<10	<10	33	<10	26	2.16
W797710	0.235	10.3	0.97	<2	<10	20	<0.5	49	1.16	0.5	10	13	>10000	2.23	<10	1	0.03	10	0.46	1845	1300	0.09	15	1020	6	1.26	<2	1	105	<20	0.15	<10	<10	34	<10	25	1.8
W797711	0.423	13.6	1.5	4	<10	50	<0.5	49	4.37	0.7	5	19	>10000	2.27	<10	<1	0.08	10	0.44	7125	658	0.04	7	1260	6	1.14	<2	2	413	<20	0.1	<10	<10	38	<10	25	1.805
W797712	0.08	3.5	1.55	5	<10	30	<0.5	12	6.03	0.6	10	14	7630	3.47	<10	<1	0.02	10	0.58	1385	597	0.04	11	950	2	0.82	<2	2	155	<20	0.08	<10	<10	26	<10	51	
W797713	0.016	1.5	1.88	7	<10	<10	<0.5	4	11.4	0.9	10	13	5150	5.84	10	<1	0.03	10	0.65	2600	688	0.01	12	780	<2	0.93	<2	2	39	<20	0.05	<10	<10	35	<10	79	
W797714	0.146	12.9	1.66	7	<10	60	<0.5	<2	6.9	4	209	13	>10000	12.55	10	<1	0.05	10	0.73	1945	80	0.01	265	690	4	9.18	<2	2	427	<20	0.03	<10	<10	12	10	915	4.29
W797715	0.099	12.3	1.32	7	<10	70	<0.5	<2	7.1	5	110	5	>10000	9.01	<10	<1	0.03	10	0.29	1005	94	0.02	130	640	<2	8.91	<2	1	428	<20	0.05	<10	10	6	<10	919	4.25
W797716	0.025	3	2.5	<2	<10	270	0.6	6	3.81	1.6	37	14	9680	18.3	10	<1	0.09	10	0.64	751	203	0.12	35	700	<2	1.29	<2	1	1270	20	0.08	<10	10	47	<10	131	
W797717	0.005	0.4	1.23	4	<10	70	<0.5	<2	1.88	<0.5	8	18	1630	2.09	<10	<1	0.09	20	0.84	405	91	0.08	11	830	<2	0.47	<2	2	181	20	0.07	<10	<10	28	<10	46	

W797718	<0.005	<0.2	2.44	5	<10	70	<0.5	2	2.58	<0.5	19	94	138	3.17	10	<1	0.13	10	2.51	588	13	0.11	32	660	<2	0.18	<2	8	139	<20	0.17	<10	<10	90	<10	41
W797719	0.005	<0.2	2.41	3	<10	40	<0.5	<2	3.78	<0.5	17	98	512	3.08	10	<1	0.08	10	2.42	654	57	0.04	35	730	5	0.15	<2	7	159	<20	0.14	<10	<10	73	<10	50
W797720	0.03	2.5	2.32	2	<10	170	0.9	5	2.81	<0.5	8	17	6190	1.9	<10	<1	0.06	10	1.14	316	66	0.04	11	740	2	0.79	<2	2	886	<20	0.03	<10	<10	24	<10	41
W797721	0.016	1.5	2.84	3	<10	340	1.1	<2	2.38	<0.5	8	18	4150	1.81	10	1	0.13	10	1.21	241	106	0.08	8	730	2	1.07	<2	3	2050	20	0.05	<10	<10	29	<10	37
W797722	<0.005	<0.2	1.23	4	<10	190	<0.5	2	1.7	<0.5	5	21	30	1.68	<10	<1	0.09	20	0.81	421	2	0.08	12	540	3	0.31	<2	2	212	20	0.06	<10	10	32	<10	19
W797723	0.006	1.1	2.15	4	<10	120	<0.5	<2	6.38	0.8	10	11	2280	4.16	10	<1	0.13	10	1.15	1445	31	0.02	7	440	4	2.54	<2	3	131	20	0.06	<10	10	33	<10	53
W797724	0.009	2.2	1.52	5	<10	30	<0.5	2	8.1	0.9	14	13	4090	6.23	<10	<1	0.11	10	0.47	1320	17	0.01	9	430	2	6.16	<2	2	136	<20	0.07	<10	<10	14	<10	48
W797725	<0.005	<0.2	0.04	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	24	0.12	<10	1	0.02	<10	0.71	73	<1	<0.01	4	70	<2	0.04	<2	<1	98	<20	<0.01	<10	<10	<1	<10	<2
W797726	0.011	1.5	1.63	3	<10	30	<0.5	3	6.51	0.7	54	13	3480	6.85	10	<1	0.07	20	0.58	1270	30	0.02	8	420	2	6.14	<2	2	93	20	0.07	<10	<10	19	<10	36
W797727	0.012	1	1.87	5	<10	10	<0.5	3	5.15	0.8	20	14	3370	5.14	10	<1	0.03	20	0.95	1130	99	<0.01	7	570	<2	4.35	<2	2	91	20	0.06	<10	<10	11	<10	84
W797728	0.028	1.6	1.48	9	<10	<10	<0.5	4	3.69	<0.5	15	11	5180	4.31	10	<1	<0.01	20	0.70	1040	53	0.01	5	430	<2	3.39	3	1	117	20	0.09	<10	<10	11	<10	68
W797729	0.013	0.9	1.53	<2	<10	30	<0.5	2	5.21	2.4	15	16	2890	4.47	10	<1	0.07	10	1.05	1015	34	0.01	7	460	3	4.15	3	2	76	<20	0.06	<10	<10	17	<10	480
W797730	0.006	0.4	1.97	<2	<10	40	<0.5	<2	4.86	<0.5	11	27	1270	2.96	10	<1	0.11	10	1.22	634	44	0.04	15	600	3	2.17	2	4	87	<20	0.08	<10	<10	35	<10	42
W797731	<0.005	<0.2	1.17	<2	<10	90	<0.5	<2	1.24	<0.5	9	45	347	2.29	10	1	0.08	10	1.02	304	1	0.09	23	730	2	0.04	3	3	102	<20	0.17	<10	<10	67	<10	22
W797732	<0.005	0.3	1.66	<2	<10	390	<0.5	<2	2.92	<0.5	9	38	1480	2.01	10	<1	0.11	10	1.42	378	13	0.07	24	870	3	0.24	<2	5	338	<20	0.06	<10	<10	53	<10	27
W797733	0.009	0.5	1.18	<2	<10	60	<0.5	7	1.47	<0.5	8	34	1170	1.99	10	1	0.1	10	0.95	356	67	0.1	20	890	6	0.11	<2	2	93	<20	0.16	<10	<10	60	<10	27
W797734	0.005	0.6	1.09	<2	<10	50	<0.5	<2	1.27	<0.5	5	33	2250	1.52	<10	<1	0.06	10	0.62	218	32	0.11	15	920	3	0.22	3	1	249	<20	0.13	<10	<10	57	<10	16
W797735	0.007	0.6	1.95	<2	<10	90	0.6	<2	3.08	0.5	16	21	2790	9.34	10	<1	0.08	10	0.55	495	258	0.13	25	880	4	1.29	<2	1	1200	20	0.09	<10	10	134	<10	24

18-CP-03

Certificate: WH19105514 – Finalized; CLIENT : "KLUDRIL - Kluane Drilling LTD"

of SAMPLES : 87; DATE RECEIVED : 2019-05-02 DATE FINALIZED : 2019-05-21

SAMPLE	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl	U	V	W	Zn	Cu2
DESCRIPTION	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
X982232	<0.005	0.3	0.83	<2	<10	40	<0.5	<2	1	<0.5	6	20	855	1.05	<10	<1	0.07	10	0.49	151	181	0.08	17	1210	2	0.14	<2	1	118	<20	0.14	<10	<10	36	10	16	
X982233	0.005	0.6	0.86	<2	<10	30	<0.5	<2	1.36	<0.5	7	26	1840	1.25	<10	<1	0.05	10	0.56	199	83	0.07	21	1470	<2	0.22	<2	2	83	<20	0.15	<10	<10	43	<10	18	
X982234	0.009	0.6	0.41	<2	<10	30	<0.5	3	0.83	<0.5	3	8	1985	0.45	<10	<1	0.03	10	0.05	62	100	0.08	9	1230	<2	0.25	<2	<1	57	<20	0.13	<10	<10	20	10	7	
X982235	0.027	1.2	0.54	3	<10	30	<0.5	4	0.75	<0.5	6	8	3530	0.84	<10	<1	0.05	10	0.22	59	132	0.09	19	1140	2	0.33	2	1	85	<20	0.13	<10	<10	23	10	12	
X982236	0.005	0.3	0.43	<2	<10	20	<0.5	<2	0.79	<0.5	3	22	1115	0.82	<10	<1	0.04	10	0.04	84	116	0.09	11	1450	2	0.26	<2	1	60	<20	0.12	<10	<10	33	10	9	
X982237	0.025	1.1	0.62	2	<10	20	<0.5	3	0.91	<0.5	3	7	3360	0.74	<10	<1	0.04	20	0.05	55	0	0.02	10	1260	3	0.04	<2	1	5	<20	0.05	<10	<10	26	20	9	
X982238	0.182	13.6	0.65	4	<10	20	<0.5	80	1.36	0.7	4	9	>10000	0.72	<10	<1	0.03	10	0.26	133	141	0.07	6	1440	10	0.86	2	1	89	<20	0.15	<10	<10	31	20	13	1.735
X982239	0.241	16.3	1.25	7	<10	10	<0.5	7	3.19	0.8	6	15	>10000	1.61	<10	<1	0.03	20	0.66	388	127	0.05	11	1570	14	1.16	<2	2	8	0.1	<0.01	<10	<10	32	110	18	2.433
X982240	0.042	3.1	3.62	12	<10	10	<0.5	22	8.17	<0.5	2	31	4780	3.47	10	<1	0.02	10	0.11	106	126	0.12	3	7900	3	0.22	<2	4	82	<20	0.12	<10	<10	75	160	6	
X982241	0.115	8.6	3.97	9	<10	10	<0.5	47	6.18	0.5	4	29	>10000	2.71	10	<1	0.05	10	0.55	548	140	0.16	5	1120	5	0.44	<2	5	4	<20	0.16	<10	<10	58	80	7	1.077
X982242	0.108	7.3	2.32	9	<10	10	<0.5	41	5.81	0.5	3	22	>10000	2.69	10	<1	0.03	10	0.09	676	87	0.07	3	1350	6	0.39	2	4	88	<20	0.17	<10	<10	57	80	6	1.025
X982243	0.065	4.5	0.98	4	<10	10	<0.5	19	1.58	<0.5	2	19	7790	0.68	<10	<1	0.03	10	0.06	102	175	0.11	8	1750	4	0.44	<2	1	79	<20	0.17	<10	<10	29	60	6	
X982244	0.240	19.6	0.98	<2	<10	50	<0.5	64	1.05	1.2	4	13	>10000	1.24	<10	<1	0.06	10	0.09	56	188	0.09	10	1070	15	0.99	<2	1	0	<20	0.13	<10	<10	20	10	12	3.636
X982245	0.385	50.7	0.87	<2	<10	120	<0.5	15	1.09	3.3	6	12	>10000	1.65	<10	<1	0.03	10	0.22	70	181	0.05	7	1070	48	2.05	2	1	6	0.1	0.01	<10	<10	18	30	20	8.433
X982246	0.236	12	0.79	2	<10	20	<0.5	54	1.51	0.7	3	10	>10000	0.89	<10	<1	0.05	10	0.14	124	379	0.08	7	1070	10	0.83	<2	1	1	<20	0.13	<10	<10	22	170	8	1.932
X982247	0.022	2.8	1.69	6	<10	<10	<0.5	18	12.1	0.6	2	16	3040	7.83	10	<1	0.01	10	0.13	143	376	0.14	4	5700	3	1.44	2	1	9	<20	0.06	<10	<10	12	4	50	6	
X982248	0.159	8	1.14	3	<10	10	<0.5	36	1.85	<0.5	3	8	>10000	0.84	<10	<1	0.04	10	0.14	126	500	0.22	8	1530	4	0.88	<2	1	2	<20	0.13	<10	<10	27	280	7	1.245
X982249	0.067	3.4	1.16	6	<10	<10	<0.5	21	4.17	<0.5	9	8	9560	3.14	<10	<1	0.02	10	0.38	533	713	0.03	15	1800	9	0.71	<2	2	4	<20	0.19	<10	10	73	0	8	
X982250	<0.005	<0.2	0.02	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	31	0.06	<10	<1	<0.01	10	0.48	91	3	0.01	1	600	<2	<0.01	<2	<1	95	<20	<0.01	<10	<10	1	20	<2	
X982251	0.018	1.2	1.79	9	<10	30	<0.5	7	5.69	<0.5	8	10	2890	2.44	<10	<1	0.11	10	0.88	703	124	0.04	14	1970	2	1.14	<2	4	9	<20	0.16	<10	<10	50	300	19	
X982252	0.006	0.7	1.47	14	<10	<10	<0.5	3	12.4	0.5	4	12	898	8.49	10	<1	0.01	10	0.21	119	357	0.01	4	6000	4	0.02	<2	2	14	<20	0.05	<10	<10	82	220	8	
X982253	0.007	0.4	1.29	14	<10	10	<0.5	3	12.7	0.6	2	13	451	9.54	10	<1	0.01	10	0.09	114	669	0.01	2	5100	2	0.06	<2	1	5	<20	0.03	<10	<10	39	200	4	
X982254	0.008	0.7	0.94	12	<10	<10	<0.5	7	10.8	0.5	<1	9	843	8.33	10	<1	<0.01	10	0.02	104	221	0.01	1	2400	<2	0.04	<2	1	2	<20	0.02	<10	<10	23	50	3	
X982255	<0.005	0.6	0.91	16	<10	<10	<0.5	7	13.5	0.5	1	15	761	11.33	10	<1	<0.01	10	0.06	116	358	0.01	2	4100	2	0.04	2	1	1	<20	0.03	<10	<10	25	40	2	
X982256	<0.005	0.2	1.32	20	<10	<10	<0.5	4	13.4	0.5	3	11	298	10.32	10	<1	0.01	10	0.04	133	321	0.01	2	3800	3	0.02	<2	1	15	<20	0.03	<10	<10	17	60	6	
X982257	<0.005	0.2	1.48	27	<10	10	<0.5	3	12.5	<0.5	2	8	231	8.16	10	1	0.02	<10	0.04	130	144	0.01	1	3800	2	0.01	<2	<1	20	<20	0.03	<10	<10	15	10	7	
X982258	0.015	1.2	1.05	81	<10	<10	<0.5	9	11.1	<0.5	2	12	1295	4.77	<10	<1	<0.01	10	0.05	107	197	0.01	4	6500	4	0.04	<2	1	63	<20	0.04	<10	10	14	10	7	

X982259	<0.005	<0.2	2.29	<2	<10	80	<0.5	2	1.97	<0.5	17	159	78	2.96	10	<1	0.06	10	2.15	747	1	0.12	87	1470	<2	<0.01	<2	2	94	<20	0.18	<10	<10	55	<10	82	
X982260	0.032	2.7	1.34	12	<10	10	<0.5	27	11.1	<0.5	5	20	3140	7.72	10	<1	0.01	10	0.42	1355	318	0.02	5	600	4	0.1	2	1	27	<20	0.06	<10	20	23	20	14	
X982261	0.042	1.9	1.43	76	<10	<10	<0.5	23	14.3	0.7	1	33	2400	10.3	10	<1	<0.01	10	0.2	1600	150	<0.01	2	620	3	0.07	2	2	11	<20	0.05	<10	20	21	20	7	
X982262	0.063	5.8	1.21	57	<10	<10	<0.5	54	17	0.7	3	7	6800	13	10	<1	<0.01	10	0.13	2020	2470	0.01	<1	280	6	0.4	<2	1	29	<20	0.02	<10	30	23	240	5	
X982263	0.086	5.3	1.85	43	<10	10	<0.5	57	13.8	0.7	7	17	6620	9.92	10	<1	0.03	10	0.67	1865	1310	0.01	7	350	9	0.25	2	1	71	<20	0.05	<10	20	30	140	27	
X982264	0.031	2.3	1.25	116	<10	<10	<0.5	20	15.8	0.8	3	15	2450	11.35	<10	<1	<0.01	10	0.26	1395	4400	0.01	<1	370	6	0.41	<2	1	41	<20	0.03	<10	10	20	560	9	
X982265	0.03	3.4	1.32	102	10	<10	<0.5	29	12.3	<0.5	2	38	3890	8.01	<10	<1	<0.01	20	0.48	1115	376	0.01	2	640	4	0.13	<2	3	22	<20	0.06	<10	20	19	20	14	
X982266	<0.005	0.6	1.4	84	<10	<10	<0.5	3	15	0.5	3	15	19	9.65	10	<1	<0.01	10	0.37	1350	26	0.01	2	540	3	<0.01	<2	1	23	<20	0.04	<10	10	17	20	11	
X982267	<0.005	<0.2	0.93	71	<10	<10	<0.5	2	15.2	0.5	4	18	34	12.65	<10	<1	<0.01	10	0.46	1235	69	<0.01	4	780	<2	<0.01	2	1	33	<20	0.03	<10	10	19	30	18	
X982268	<0.005	0.2	0.84	32	<10	<10	<0.5	<2	16.8	0.8	5	14	137	10.6	10	<1	<0.01	<10	0.67	1405	12	<0.01	6	670	5	0.03	<2	1	67	<20	0.02	<10	10	15	10	25	
X982269	<0.005	<0.2	1.26	29	<10	<10	<0.5	2	14.8	0.5	6	14	10	11.6	10	<1	<0.01	<10	0.95	1355	12	<0.01	7	710	4	<0.01	2	1	53	<20	0.03	<10	10	27	10	37	
X982270	0.05	5.3	0.96	53	<10	<10	<0.5	45	16.7	0.9	4	14	5780	10.75	10	<1	<0.01	10	0.38	1420	526	<0.01	3	650	10	0.27	2	1	40	<20	0.02	<10	10	16	20	13	
X982271	0.02	3.6	0.78	25	<10	<10	<0.5	8	13	1.3	5	18	5430	9.43	10	<1	<0.01	<10	0.23	1480	4020	0.01	1	340	11	1.16	<2	1	106	<20	0.02	<10	10	21	420	8	
X982272	0.033	1.9	1.06	107	<10	<10	<0.5	14	17.7	<0.5	3	21	2220	15.65	10	<1	<0.01	10	0.14	1975	1370	0.01	2	330	4	0.17	<2	1	9	<20	0.03	<10	20	26	220	6	
X982273	0.102	6.7	1.06	70	<10	<10	<0.5	40	17.1	0.7	2	14	8380	15.25	10	<1	<0.01	10	0.19	2200	102	0.01	4	130	9	0.31	3	1	9	<20	0.02	<10	40	22	20	7	
X982274	0.063	5.1	0.97	53	<10	<10	<0.5	37	17.4	0.7	3	22	6200	15.2	10	<1	<0.01	10	0.15	2130	651	0.01	2	300	7	0.27	<2	1	9	<20	0.03	<10	30	30	100	6	
X982275	<0.005	<0.2	0.01	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	15	0.1	<10	<1	<0.01	<10	0.62	103	2	0.01	1	70	<2	<0.01	<2	<1	91	<20	<0.01	<10	<10	1	<10	<2	
X982276	0.054	3.2	0.64	47	<10	<10	<0.5	28	16.2	<0.5	2	14	3860	14.9	10	<1	<0.01	<10	0.15	2250	4270	0.01	1	170	6	0.45	<2	1	4	<20	0.02	<10	30	25	140	4	
X982277	0.027	1.9	0.75	55	<10	<10	<0.5	20	18.1	<0.5	3	10	2330	16.45	10	<1	<0.01	10	0.1	2230	3620	0.01	1	300	5	0.35	<2	1	10	<20	0.02	<10	30	17	250	5	
X982278	0.173	15.4	0.88	25	<10	<10	<0.5	101	14.2	0.7	11	14	>10000	18.7	10	<1	<0.01	10	0.12	2070	1080	0.01	27	390	15	0.78	<2	1	5	<20	0.03	<10	30	21	190	8	1.925
X982279	0.124	9.2	0.88	61	<10	<10	<0.5	84	16.1	0.5	3	22	>10000	14.75	10	<1	<0.01	10	0.08	2400	3500	0.01	1	310	10	0.68	2	1	4	<20	0.03	<10	40	34	230	4	1.125
X982280	0.224	21.7	0.79	108	<10	<10	<0.5	131	14.8	1	5	8	>10000	13.8	10	<1	<0.01	10	0.08	2370	3010	0.01	1	230	16	1.11	3	1	5	<20	0.02	<10	30	18	340	4	2.56
X982281	0.321	23.4	0.59	57	<10	<10	<0.5	135	11.9	0.8	8	10	>10000	14.5	10	<1	<0.01	10	0.25	2060	1120	0.01	13	610	21	1.51	5	1	5	<20	0.02	<10	30	18	210	10	3.62
X982282	0.121	10.6	0.49	63	<10	<10	<0.5	77	15	0.6	5	4	>10000	12.45	10	<1	<0.01	<10	0.25	2190	1830	0.01	4	220	13	0.76	2	<1	97	<20	0.01	<10	20	13	170	9	1.335
X982283	0.05	4.8	0.97	140	<10	<10	<0.5	45	16.4	0.7	8	13	5850	14	10	<1	<0.01	10	0.45	2470	1960	0.01	7	380	7	0.33	<2	1	18	<20	0.03	<10	30	22	240	12	
X982284	0.023	2.1	1.75	158	<10	<10	<0.5	15	13.6	0.6	4	33	2580	8.79	10	<1	<0.01	10	0.38	1565	135	0.01	4	660	5	0.08	<2	3	22	<20	0.09	<10	10	36	90	10	
X982285	0.011	0.9	1.16	30	<10	<10	<0.5	8	15.3	0.7	3	17	1090	12.1	10	<1	<0.01	10	0.24	1830	275	0.01	6	550	3	0.06	<2	1	21	<20	0.04	<10	10	26	80	9	
X982286	0.053	4.5	1.78	17	<10	10	<0.5	28	8.7	<0.5	4	28	5280	4.61	10	<1	0.02	10	0.52	1505	299	0.01	8	930	3	0.19	<2	2	32	<20	0.07	<10	10	29	60	16	
X982287	0.065	10.1	1.85	8	<10	10	<0.5	38	7	<0.5	5	19	9910	3.23	10	<1	0.03	10	0.84	1485	186	0.01	10	710	7	0.38	<2	2	40	<20	0.1	<10	<10	29	40	37	
X982288	<0.005	<0.2	1.61	3	<10	50	<0.5	2	2.21	0.5	8	5	119	3.86	10	<1	0.13	20	1.13	855	6	0.05	4	1760	11	0.01	<2	5	56	<20	0.25	<10	<10	62	<10	76	
X982289	<0.005	0.3	1.84	<2	<10	50	0.5	2	2.69	<0.5	8	5	132	3.91	10	<1	0.15	20	1.12	872	6	0.04	5	1790	9	0.03	2	5	58	<20	0.24	<10	<10	56	<10	79	
X982290	<0.005	0.2	1.76	3	<10	30	0.5	2	2.14	<0.5	9	6	349	3.88	10	<1	0.07	20	1.25	923	15	0.05	5	1730	7	0.03	<2	5	60	<20	0.34	<10	<10	64	<10	103	
X982291	0.019	4	1.22	18	<10	10	<0.5	18	4.88	0.5	3	27	4310	1.84	<10	<1	0.02	10	0.42	774	78	0.01	6	1150	6	0.19	<2	2	24	<20	0.08	<10	10	21	40	23	
X982292	0.037	6.8	1.29	20	<10	10	<0.5	27	5.09	0.6	3	30	8300	2.05	<10	<1	0.02	10	0.15	811	159	0.01	5	1090	10	0.39	2	2	17	<20	0.09	<10	10	21	70	8	
X982293	<0.005	0.4	1.14	11	<10	<10	<0.5	2	4.36	<0.5	2	19	843	1.25	<10	<1	0.01	<10	0.13	585	102	0.01	3	950	2	0.08	2	2	14	<20	0.05	<10	<10	16	60	7	
X982294	<0.005	0.4	1.14	9	<10	<10	<0.5	2	3.92	<0.5	2	14	1365	0.97	<10	<1	0.01	<10	0.09	551	47	0.01	2	900	2	0.13	<2	1	12	<20	0.04	<10	<10	11	10	6	

X982295	<0.005	0.2	1.23	7	<10	10	<0.5	2	4.78	<0.5	2	16	414	1.44	<10	<1	0.03	<10	0.11	604	78	0.01	2	810	2	0.02	<2	2	17	<20	0.05	<10	<10	14	80	7	
X982296	<0.005	<0.2	1.52	3	<10	30	<0.5	2	4.98	<0.5	3	18	486	1.48	<10	<1	0.04	<10	0.15	802	20	0.01	3	350	4	0.04	<2	2	17	<20	0.05	<10	<10	17	20	11	
X982297	<0.005	<0.2	1.38	3	<10	30	<0.5	<2	1.55	<0.5	12	1	69	4.87	10	<1	0.04	20	1.17	794	4	0.07	1	362	8	0.01	<2	3	47	<20	0.23	<10	<10	75	<10	86	
X982298	<0.005	0.2	1.41	3	<10	30	<0.5	2	1.81	<0.5	12	2	240	4.93	10	<1	0.05	20	1.15	822	6	0.07	1	368	5	0.03	<2	3	65	<20	0.26	<10	<10	79	<10	89	
X982299	0.018	0.7	1.34	5	<10	30	<0.5	2	2.02	<0.5	12	3	2710	4.06	10	<1	0.04	20	1.02	727	12	0.06	1	336	4	0.28	3	3	60	<20	0.27	<10	<10	69	10	77	
X982300	<0.005	<0.2	0.02	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	<1	4	0.07	<10	<1	<0.01	<10	0.95	113	<1	0.01	2	80	<2	<0.01	<2	<1	88	<20	<0.01	<10	<10	1	<10	<2	
X982301	0.028	2.7	1.29	6	<10	30	<0.5	5	4.77	<0.5	3	32	2870	2.05	<10	<1	0.05	<10	0.24	736	286	0.02	3	610	4	0.44	<2	3	47	<20	0.28	<10	<10	26	20	14	
X982302	0.057	4	1.08	5	<10	30	<0.5	20	3.76	0.6	4	26	7540	1.92	<10	<1	0.06	<10	0.27	527	347	0.04	5	660	12	0.99	<2	1	49	<20	0.21	<10	<10	22	10	19	
X982303	0.061	2.5	1.64	6	<10	10	<0.5	19	9.29	0.6	5	24	7230	5.31	<10	<1	0.03	<10	0.19	153	192	0.02	6	410	16	0.07	<2	3	24	<20	0.06	<10	<10	26	10	15	
X982304	0.065	6.7	1.86	7	<10	20	<0.5	9	10.09	0.8	6	20	5740	5.98	10	<1	0.03	<10	0.41	186	110	0.01	7	740	6	0.47	<2	2	29	<20	0.05	<10	<10	29	<10	19	
X982305	0.164	10.3	1.52	7	<10	80	<0.5	21	14.02	1.4	10	24	>10000	6.08	10	1	0.04	<10	0.47	213	417	0.01	11	580	34	0.98	<2	2	178	<20	0.03	<10	<10	36	250	26	1.04
X982306	0.025	1.5	1.48	3	<10	50	<0.5	4	2.43	<0.5	13	2	1180	4.92	10	<1	0.07	20	1.22	932	13	0.06	1	342	7	0.10	<2	5	68	<20	0.25	<10	<10	93	<10	77	
X982307	<0.005	0.2	1.69	<2	<10	50	<0.5	<2	2.81	<0.5	15	1	205	5.45	10	<1	0.09	20	1.51	102	5	0.01	1	360	7	0.03	<2	7	89	<20	0.18	<10	<10	96	<10	94	
X982308	<0.005	0.2	1.71	2	<10	50	<0.5	2	2.77	0.8	15	1	243	5.43	10	<1	0.12	30	1.51	101	3	0.05	<1	363	17	0.14	<2	6	94	<20	0.12	<10	<10	94	<10	129	
X982309	<0.005	<0.2	1.71	2	<10	40	<0.5	2	3.08	0.6	14	1	155	5.39	10	<1	0.09	20	1.49	102	4	0.05	1	354	13	0.16	2	6	0	<20	0.06	<10	<10	92	<10	105	
X982310	<0.005	0.4	2.95	6	<10	120	0.5	4	7.77	0.5	18	148	723	4.87	10	1	0.09	10	2.74	177	31	0.03	73	107	7	0.03	<2	9	99	<20	0.08	<10	<10	87	20	78	
X982311	0.027	1.5	2.03	4	<10	30	<0.5	9	9.44	<0.5	2	27	1390	4.47	10	<1	0.04	<10	0.36	188	70	0.02	3	250	3	0.03	2	3	29	<20	0.06	<10	<10	36	40	20	
X982312	0.07	5.4	2.24	4	<10	20	<0.5	32	11.06	0.6	3	42	5470	6.16	10	<1	0.01	<10	0.31	204	76	0.01	7	200	9	0.15	<2	3	32	<20	0.06	<10	<10	35	<10	18	
X982313	0.08	3.3	2.05	3	<10	30	<0.5	15	10.07	0.6	4	17	4170	6.36	10	1	0.04	<10	0.27	200	28	0.02	4	260	7	0.08	<2	2	34	<20	0.04	<10	<10	40	10	16	
X982314	0.03	3.2	2.09	5	<10	50	<0.5	12	10.05	0.6	8	9	5070	6.19	10	<1	0.03	<10	0.28	227	96	0.03	6	370	3	0.28	<2	1	161	<20	0.04	<10	<10	33	<10	59	
X982315	0.042	5	1.45	4	<10	10	<0.5	7	10.06	1.4	25	9	>10000	6.25	<10	<1	0.01	<10	0.28	222	171	0.01	22	200	4	2.51	2	1	71	<20	0.04	<10	<10	29	<10	16	2.56
X982316	0.095	9.5	0.85	5	<10	20	<0.5	<2	5.75	1.9	39	6	>10000	9.46	<10	1	0.01	<10	0.58	138	159	0.01	27	290	<2	7.65	2	1	81	<20	0.03	<10	<10	13	<10	29	8.24
X982317	0.024	5.3	1.13	4	<10	20	<0.5	2	2.66	0.7	14	9	>10000	3.04	<10	<1	0.03	10	0.93	791	258	0.02	13	360	3	1.73	<2	1	71	<20	0.08	<10	<10	13	<10	71	1.79
X982318	0.061	14.8	1.55	<2	<10	30	<0.5	<2	9.11	2.4	28	5	>10000	7.29	<10	<1	0.16	<10	1.22	161	125	0.01	30	70	10	4.06	<2	1	378	<20	0.02	<10	<10	13	10	86	5.23

18-CP-09

Certificate: WH19080759, # of SAMPLES: 72,

DATE RECEIVED : 2019-04-04 DATE FINALIZED : 2019-04-25, PO NUMBER : "18-CP-09"

SAMPLE	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl	U	V	W	Zn	Cu
DESCRIPTION	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
X982001	<0.005	<0.2	1.14	20	<10	10	<0.5	<2	5.63	<0.5	1	23	51	0.98	<10	<1	<0.01	10	0.12	640	1	<0.01	<1	1090	<2	<0.01	<2	2	38	<20	0.06	<10	<10	16	<10	6	
X982002	<0.005	<0.2	1.58	12	<10	<10	<0.5	<2	7.2	<0.5	1	13	143	1.33	<10	<1	<0.01	<10	0.22	939	1	<0.01	2	570	<2	<0.01	<2	1	60	<20	0.04	<10	<10	14	<10	9	
X982003	<0.005	<0.2	1.64	15	<10	<10	<0.5	<2	6.8	<0.5	1	21	100	2.07	<10	<1	<0.01	10	0.15	895	1	<0.01	<1	600	<2	<0.01	<2	2	20	<20	0.05	<10	<10	20	<10	7	
X982004	<0.005	0.2	1.43	19	<10	<10	0.5	<2	6.62	<0.5	1	16	87	1.31	<10	<1	<0.01	10	0.17	803	1	<0.01	1	850	<2	<0.01	<2	2	39	<20	0.05	<10	<10	16	<10	8	
X982005	<0.005	0.4	1.61	21	<10	<10	<0.5	7	8.6	<0.5	1	14	1190	3.59	<10	1	<0.01	10	0.13	992	1	<0.01	<1	500	<2	0.06	<2	2	24	<20	0.05	<10	<10	18	<10	7	
X982006	<0.005	0.3	1.83	56	<10	<10	<0.5	5	16.3	<0.5	<1	12	3410	11.75	10	1	<0.01	<10	0.07	1465	2	<0.01	1	240	<2	0.24	<2	2	11	<20	0.04	<10	<10	26	<10	<2	
X982007	<0.005	0.3	1.63	55	<10	<10	<0.5	14	14.3	<0.5	1	17	4400	9.6	10	<1	<0.01	10	0.08	1260	3	<0.01	<1	510	<2	0.13	2	2	17	<20	0.06	<10	<10	23	<10	2	
X982008	0.041	4.1	1.79	69	20	<10	1.1	37	10.4	<0.5	1	14	4600	5.47	<10	1	<0.01	10	0.14	1105	2	<0.01	<1	480	3	0.11	2	1	14	<20	0.04	<10	10	17	<10	7	
X982009	0.01	0.7	1.98	45	30	<10	2.1	13	7.8	<0.5	1	13	957	2.61	<10	1	<0.01	20	0.19	1030	1	<0.01	<1	590	<2	0.04	4	1	23	<20	0.07	<10	20	18	<10	10	
X982010	0.006	0.6	1.71	20	<10	<10	<0.5	3	8.3	<0.5	<1	16	593	2.95	<10	<1	<0.01	10	0.14	1390	14	<0.01	<1	530	<2	0.02	2	2	34	<20	0.06	<10	<10	16	<10	6	
X982011	<0.005	0.5	1.62	22	<10	<10	<0.5	5	6.81	<0.5	<1	11	427	2.19	<10	<1	<0.01	10	0.17	1070	1	<0.01	1	470	<2	0.01	<2	1	21	<20	0.04	<10	10	13	<10	7	
X982012	0.017	1.6	1.85	39	<10	<10	<0.5	14	8.6	<0.5	<1	16	2060	3.67	<10	1	<0.01	10	0.13	1090	4	<0.01	<1	780	2	0.1	<2	2	15	<20	0.06	<10	10	17	<10	5	
X982013	0.028	3.1	0.99	32	<10	10	<0.5	33	12.7	<0.5	<1	10	3880	1.87	<10	<1	<0.01	20	0.15	624	12	<0.01	<1	790	2	0.12	2	1	291	<20	0.03	<10	30	9	<10	9	
X982014	0.005	0.3	0.45	6	<10	20	<0.5	<2	21.1	0.5	1	3	125	0.62	<10	1	0.01	<10	0.12	180	2	0.01	8	590	6	0.47	2	<1	806	<20	0.02	<10	<10	2	<10	127	
X982015	0.202	17.9	1.19	21	<10	<10	<0.5	145	12	0.7	2	14	>10000	7.15	10	1	<0.01	10	0.37	951	52	<0.01	1	480	6	0.51	<2	1	30	<20	0.04	<10	10	22	<10	7	1.21
X982016	0.042	5.2	1.19	20	<10	<10	<0.5	114	11.9	<0.5	7	13	>10000	9.21	10	<1	<0.01	10	0.15	1100	43	<0.01	6	440	15	1.36	<2	1	11	<20	0.03	<10	20	20	<10	16	1.44
X982017	0.065	23.9	0.17	3	<10	10	<0.5	<2	14.8	7.6	89	1	>10000	13.7	<10	<1	0.01	<10	0.11	143	13	<0.01	39	140	<2	5.07	<2	<1	642	<20	<0.01	<10	<10	<1	<10	497	14.9
X982018	0.051	18	0.22	2	<10	10	<0.5	<2	22.4	3.6	33	2	>10000	6.34	<10	1	0.01	<10	0.13	374	5	<0.01	35	200	118	3.59	<2	<1	862	<20	<0.01	<10	<10	2	<10	206	6.93
X982019	0.094	32.5	0.44	5	<10	40	<0.5	<2	14.3	2.4	48	4	>10000	11.7	<10	<1	0.02	<10	0.11	485	6	<0.01	43	240	19	4.84	3	<1	537	<20	<0.01	<10	<10	2	<10	343	12.3
X982020	0.12	25.2	1.08	4	<10	60	<0.5	2	8.1	1.3	32	14	>10000	9.07	<10	1	0.04	<10	0.19	1195	5	0.01	45	770	9	5.31	<2	2	248	<20	0.02	<10	<10	12	<10	252	8.9
X982021	0.095	47.9	0.56	5	<10	<10	<0.5	6	4.59	2.3	46	11	>10000	15.95	<10	2	0.01	<10	0.15	774	8	<0.01	41	320	15	3.51	<2	1	25	<20	0.02	<10	10	5	<10	288	18.2
X982022	0.008	1.9	2.28	6	<10	<10	0.7	2	5.81	0.5	8	19	5600	1.38	<10	<1	0.01	10	0.45	699	92	<0.01	11	990	19	1.17	2	1	42	<20	0.06	<10	<10	17	<10	163	
X982023	0.005	2	1.9	5	<10	20	<0.5	<2	10.5	1.1	8	17	4420	2.22	<10	<1	0.03	<10	0.33	1605	4	0.01	16	640	25	2.21	<2	2	119	<20	0.04	<10	<10	13	<10	325	
X982024	<0.005	1.2	2.4	13	<10	60	<0.5	<2	7.7	9.3	69	16	517	4.8	<10	<1	0.06	<10	0.23	1455	13	0.03	40	210	150	5.67	<2	2	743	<20	0.02	<10	<10	12	<10	2480	
X982025	<0.005	<0.2	0.03	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	1	68	0.09	<10	<1	<0.01	<10	0.51	108	<1	<0.01	5	70	<2	0.02	<2	<1	80	<20	<0.01	<10	<10	<1	<10	6	
X982026	<0.005	0.5	1.94	9	<10	40	0.7	<2	7.1	3.5	11	20	343	5.38	<10	<1	0.04	<10	0.73	1490	7	<0.01	14	550	4	6.06	2	3	228	<20	0.02	<10	<10	23	<10	1050	
X982027	<0.005	0.4	1.09	12	<10	40	<0.5	<2	7.3	4.8	14	9	296	9.24	<10	<1	0.06	<10	0.28	1945	6	<0.01	10	470	<2	>10.0	<2	1	702	<20	0.04	<10	<10	18	<10	1405	
X982028	<0.005	0.3	1.09	5	<10	10	0.5	<2	6.6	<0.5	10	19	212	3.12	<10	<1	0.01	<10	0.45	1350	29	0.01	11	760	2	3.01	<2	2	57	<20	0.04	<10	<10	18	<10	145	
X982029	<0.005	0.4	1.59	16	<10	70	0.7	<2	8	<0.5	17	27	235	4.36	<10	<1	0.04	10	0.63	1285	58	0.04	19	1190	<2	4.63	<2	2	376	50	0.03	<10	10	16	<10	41	
X982030	<0.005	0.2	1.57	5	<10	60	0.8	<2	3.82	<0.5	47	19	458	3.27	<10	<1	0.03	<10	0.69	565	4	0.07	18	630	<2	3.44	<2	2	321	<20	0.03	<10	10	22	<10	18	
X982031	<0.005	0.3	1.86	8	<10	40	0.6	<2	5.3	<0.5	23	22	60	2.63	<10	<1	0.04	10	0.47	759	6	0.06	11	660	2	2.8	<2	1	205	50	0.03	<10	10	17	<10	23	
X982032	0.008	0.6	1.4	48	<10	30	<0.5	<2	9	<0.5	59	18	915	13.8	<10	<1	0.04	<10	0.34	1860	7	0.04	24	260	<2	>10.0	2	1	753	<20	0.03	<10	<10	19	<10	41	

X982033	0.009	0.7	1.72	50	<10	50	<0.5	<2	9.5	<0.5	23	7	1090	9.76	<10	1	0.05	10	0.22	1785	12	0.05	19	240	<2	>10.0	<2	1	1130	60	0.01	<10	<10	7	<10	49	
X982034	<0.005	0.2	2.53	5	<10	110	1.5	<2	4.05	1.7	6	6	60	3.29	<10	<1	0.08	10	1.21	990	6	0.04	10	290	5	3.62	2	1	2520	50	0.01	<10	10	11	<10	599	
X982035	<0.005	0.5	1.8	8	<10	70	0.6	<2	2.49	3.9	17	8	262	4.56	10	<1	0.06	10	0.76	1140	25	0.06	12	630	7	4.97	<2	1	730	20	0.01	<10	10	15	<10	888	
X982036	<0.005	0.4	0.8	2	<10	30	<0.5	<2	1.5	<0.5	3	11	609	1.48	<10	<1	0.02	10	0.43	514	7	0.1	7	840	2	1.38	<2	1	85	<20	0.13	<10	<10	32	<10	34	
X982037	<0.005	0.5	1.41	4	<10	60	<0.5	<2	3.16	<0.5	14	16	769	3.94	<10	<1	0.04	10	0.57	841	5	0.09	9	790	2	4.18	<2	1	541	<20	0.08	<10	10	29	<10	49	
X982038	0.007	2.3	1.25	6	<10	50	<0.5	3	2.93	3.5	14	4	4330	10.85	<10	<1	0.03	10	0.35	802	3	0.04	31	300	<2	>10.0	<2	1	644	40	0.02	<10	10	8	<10	892	
X982039	0.006	1.9	1.03	7	<10	10	<0.5	2	4.46	1.4	17	7	3270	8.49	<10	<1	0.02	10	0.37	1605	19	0.03	22	1050	<2	9	<2	2	115	<20	0.05	<10	10	15	<10	248	
X982040	<0.005	0.4	1.18	4	<10	40	0.5	<2	4.61	0.6	10	12	573	2.18	<10	<1	0.05	20	0.6	1130	78	0.07	13	1870	2	1.98	<2	3	162	<20	0.04	<10	<10	20	<10	122	
X982041	0.005	0.6	1.4	3	<10	30	0.5	<2	4.23	<0.5	13	17	1510	3.93	10	<1	0.07	10	1.11	984	9	0.04	17	1040	3	3.58	<2	2	130	20	0.06	<10	10	26	<10	46	
X982042	0.005	0.4	1.24	2	<10	20	<0.5	<2	3.45	<0.5	13	34	848	3.06	<10	<1	0.04	10	1.53	684	9	0.05	18	1180	2	2.14	<2	6	101	<20	0.07	<10	<10	54	<10	47	
X982043	<0.005	0.6	1.32	2	<10	30	<0.5	<2	6.37	<0.5	9	33	1130	2.38	10	<1	0.1	10	1.47	893	38	0.05	11	890	<2	1.36	<2	6	132	<20	0.01	<10	<10	48	<10	47	
X982044	<0.005	0.7	1.41	3	<10	50	<0.5	<2	3.83	<0.5	31	41	1880	3.45	10	<1	0.11	10	1.53	566	30	0.06	18	910	2	2.24	<2	7	133	<20	0.01	<10	<10	62	<10	53	
X982045	<0.005	0.4	1.02	<2	<10	80	<0.5	<2	2.96	<0.5	10	18	791	2.14	<10	<1	0.13	10	0.98	333	22	0.07	11	580	<2	1.6	2	4	117	<20	0.01	<10	<10	35	<10	19	
X982046	<0.005	0.4	1.15	<2	<10	30	<0.5	<2	2.68	<0.5	11	38	890	2.29	<10	<1	0.08	10	1.28	376	20	0.07	10	620	<2	1.47	<2	5	97	<20	0.03	<10	<10	62	<10	28	
X982047	<0.005	0.3	1.45	7	<10	30	<0.5	<2	2.71	<0.5	10	37	738	3.11	10	<1	0.13	10	1.4	540	8	0.06	11	560	2	1.39	<2	4	78	<20	0.01	<10	<10	66	<10	57	
X982048	0.005	0.5	1.31	2	<10	30	<0.5	<2	7.9	<0.5	16	21	935	3.05	<10	<1	0.14	<10	0.85	1120	77	0.04	20	400	2	1.4	<2	2	120	<20	0.01	<10	<10	20	<10	88	
X982049	0.088	19.8	1.32	9	<10	20	<0.5	<2	14.1	1.8	49	7	>10000	11.05	<10	<1	0.09	<10	0.9	2090	108	0.01	152	160	26	9.15	<2	1	260	<20	0.01	<10	<10	17	<10	167	4.42
X982050	<0.005	<0.2	0.02	<2	<10	10	<0.5	<2	>25.0	<0.5	<1	1	109	0.1	<10	<1	0.01	<10	0.94	106	1	0.01	9	60	<2	0.02	<2	<1	80	<20	<0.01	<10	<10	<1	<10	<2	
X982051	0.092	15.1	1.59	8	<10	10	<0.5	6	9.5	1.4	95	9	>10000	20.4	10	<1	0.04	<10	1.12	1930	27	0.01	237	170	35	>10.0	<2	1	154	<20	0.01	<10	<10	18	<10	262	3.37
X982052	0.066	10.6	1.77	9	<10	10	<0.5	9	9	12.9	109	7	>10000	19.65	10	1	0.04	<10	1.34	2350	11	0.01	195	170	28	>10.0	2	1	141	<20	<0.01	<10	<10	22	<10	2850	2.39
X982053	0.099	23.9	1.23	7	<10	30	0.5	7	7.6	12.2	80	5	>10000	15.4	<10	<1	0.17	<10	0.79	2140	3	0.01	204	170	13	>10.0	2	<1	156	<20	<0.01	<10	<10	17	<10	2780	5.61
X982054	0.092	4.4	1.53	3	<10	10	0.5	34	13.7	4.2	19	8	8540	9.67	10	<1	0.03	<10	0.63	2880	5790	0.01	26	320	34	2.19	<2	1	129	<20	0.03	<10	<10	31	10	928	
X982055	0.565	3.9	1.89	<2	<10	<10	<0.5	123	12.7	<0.5	18	11	7710	10.2	10	<1	0.01	<10	0.88	3090	3470	0.01	31	650	46	1.04	<2	2	63	<20	0.05	<10	<10	36	<10	99	
X982056	0.029	3.1	1.39	2	<10	10	0.5	9	13.6	<0.5	9	8	6180	7.43	10	<1	0.04	<10	0.52	2680	2280	0.01	17	410	6	0.85	<2	1	144	<20	0.03	<10	<10	25	<10	67	
X982057	0.018	2.1	1.34	2	<10	10	<0.5	8	12.2	<0.5	12	4	4500	6.59	10	<1	0.03	<10	0.64	2510	520	0.02	17	470	5	0.48	<2	1	122	<20	0.04	<10	<10	23	<10	69	
X982058	0.015	0.4	1.51	2	<10	40	0.6	<2	9.2	<0.5	11	5	441	4.65	10	<1	0.03	<10	0.54	2050	203	0.03	10	440	<2	0.07	<2	2	196	<20	0.06	<10	<10	20	<10	42	
X982059	0.005	0.4	1.5	2	<10	80	0.8	<2	7.6	<0.5	14	6	599	3.41	10	<1	0.02	<10	0.84	1760	225	0.03	11	530	<2	0.09	<2	2	296	<20	0.05	<10	<10	16	<10	64	
X982060	0.009	0.3	1.58	4	<10	10	<0.5	<2	9.3	<0.5	8	11	698	3.78	10	<1	0.02	<10	0.48	1845	268	0.02	10	520	<2	0.11	<2	2	57	<20	0.06	<10	<10	20	<10	44	
X982061	0.018	1.3	0.94	2	<10	30	<0.5	2	1.16	<0.5	10	18	4110	1.68	<10	<1	0.05	10	0.44	162	226	0.08	16	1010	2	1.13	<2	1	86	<20	0.1	<10	<10	22	<10	29	
X982062	0.163	7.5	0.85	2	<10	20	<0.5	33	1.18	<0.5	6	19	>10000	1.57	<10	<1	0.04	10	0.51	148	1025	0.08	10	730	4	1.11	<2	1	187	<20	0.1	<10	<10	31	200	17	1.495
X982063	0.112	3.9	1.53	<2	<10	40	<0.5	21	1.29	<0.5	9	33	8540	2.37	10	<1	0.1	10	1.18	218	223	0.1	12	820	2	0.79	<2	2	526	<20	0.19	<10	<10	69	100	26	
X982064	0.02	0.9	1.49	<2	<10	40	<0.5	3	1.05	<0.5	10	42	2260	2.77	10	1	0.12	10	1.55	272	309	0.09	11	870	<2	0.65	<2	3	120	<20	0.28	<10	<10	91	10	41	
X982065	0.068	3.1	0.84	<2	<10	30	<0.5	13	1.05	<0.5	5	19	5130	1.29	<10	<1	0.1	10	0.55	141	905	0.09	8	590	2	0.45	<2	1	290	20	0.13	<10	10	38	50	15	
X982066	0.064	1.8	0.8	<2	<10	60	<0.5	7	0.73	<0.5	5	21	3150	1.78	<10	1	0.18	10	0.57	149	49	0.1	7	680	2	0.42	<2	2	60	20	0.14	<10	<10	52	70	17	
X982067	0.077	2.9	1.58	<2	<10	140	<0.5	10	0.85	<0.5	12	57	7160	3.79	10	<1	0.39	10	1.5	301	79	0.09	13	900	2	1.19	<2	4	94	<20	0.32	<10	<10	132	<10	42	
X982068	0.157	5.8	0.67	<2	<10	40	<0.5	24	0.88	<0.5	5	24	9450	1.6	<10	1	0.11	10	0.36	129	189	0.07	10	510	5	0.65	<2	1	79	20	0.13	<10	10	38	60	14	
X982069	0.037	1.5	0.48	<2	<10	30	<0.5	7	0.56	<0.5	3	19	2690	0.99	<10	<1	0.08	20	0.28	105	443	0.07	6	390	3	0.22	<2	1	33	40	0.09	<10	10	23	20	10	
X982070	0.104	3.5	0.78	<2	<10	20	<0.5	17	1.42	<0.5	3	29	5910	1.37	<10	<1	0.03	10	0.22	141	280	0.1	5	1080	3	0.39	<2	1	93	<20	0.14	<10	<10	41	60	14	
X982071	0.058	2.1	0.83	<2	<10	30	<0.5	11	0.97	<0.5	5	22	3260	1.39	<10	1	0.12	10	0.4	147	93	0.08	11	820	3	0.22	<2	1	118	20	0.14	<10	10	39	90	17	
X982072	0.041	1.6	0.78	<2	<10	50	<0.5	10	0.75	<0.5	6	30	2350	1.59	<10	1	0.16	10	0.57	183	133	0.11	16	870	2	0.12	<2	1	108	<20	0.17	<10	<10	60	10	20	

18-CP-14

Certificate: WH19112592 – Finalized; # of SAMPLES : 26, PO NUMBER : "18-CP-14"

DATE RECEIVED : 2019-05-10 DATE FINALIZED : 2019-05-28

SAMPLE	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl	U	V	W	Zn	Cu
DESCRIPTION	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%
X982456	0.012	0.2	2.8	17	<10	20	0.5	<2	5.78	<0.5	9	12	455	2.92	10	<1	0.07	10	1.24	586	21	0.05	7	650	6	0.42	<2	4	201	<20	0.1	<10	<10	43	10	48	
X982457	0.01	0.3	2.32	19	<10	20	<0.5	<2	5.48	0.9	10	11	606	1.86	10	<1	0.06	<10	1.41	454	49	0.05	8	520	8	0.72	<2	2	205	<20	0.06	<10	<10	29	<10	10	
X982458	0.006	<0.2	2.41	19	<10	30	<0.5	<2	3.21	<0.5	9	9	353	1.57	10	1	0.08	10	0.94	177	15	0.06	8	700	2	0.77	3	1	348	<20	0.07	<10	<10	25	<10	45	
X982459	0.005	0.2	1.44	11	<10	10	<0.5	3	8.25	<0.5	5	8	301	4.21	10	<1	0.02	<10	0.43	109	5	0.04	3	760	3	0.55	<2	2	134	<20	0.05	<10	<10	31	90	18	
X982460	0.008	<0.2	2.13	24	<10	60	<0.5	<2	2.09	<0.5	7	20	264	1.97	10	<1	0.19	<10	1.76	351	139	0.07	6	920	12	0.44	3	4	134	<20	0.13	<10	<10	57	<10	85	
X982461	0.007	<0.2	2.04	14	<10	50	<0.5	<2	1.18	<0.5	6	18	95	2.02	10	<1	0.11	<10	1.85	246	26	0.01	6	560	5	0.33	<2	4	169	<20	0.18	<10	<10	62	<10	49	
X982462	0.016	0.3	1.61	9	<10	10	<0.5	<2	4.26	<0.5	5	8	1825	1.53	<10	<1	0.04	10	0.59	551	109	0.03	5	750	2	0.28	<2	1	125	<20	0.06	<10	<10	21	<10	31	
X982463	0.006	<0.2	1.47	16	10	<10	<0.5	<2	5.45	<0.5	2	7	129	1.54	<10	1	0.01	10	0.22	617	3	0.02	1	520	<2	0.01	2	1	750	<20	0.05	<10	10	15	<10	9	
X982464	0.193	3.3	1.63	23	<10	60	<0.5	24	3.89	<0.5	7	6	4700	1.95	<10	1	0.07	10	1.02	411	15	0.03	4	880	2	0.44	<2	1	204	<20	0.05	<10	10	15	<10	34	
X982465	0.018	4.8	1.25	23	<10	10	<0.5	27	8.25	0.5	4	7	5500	4.91	10	1	0.03	<10	0.25	102	103	0.02	2	580	3	0.38	3	1	800	<20	0.06	<10	10	31	480	9	
X982466	0.006	<0.2	3.33	2	<10	110	<0.5	<2	1.85	<0.5	5	16	134	1.81	10	<1	0.41	10	2.11	197	37	0.07	6	710	5	0.22	<2	5	381	<20	0.9	<10	<10	61	<10	67	
X982467	0.051	1.5	1.81	5	<10	10	<0.5	2	8.75	<0.5	4	8	5540	4.91	10	1	0.05	<10	0.41	137	0	0.03	3	460	<2	0.58	3	2	104	<20	0.07	<10	<10	35	10	21	
X982468	0.012	0.2	1.65	3	<10	40	<0.5	<2	2.02	<0.5	5	8	1115	1.28	<10	<1	0.09	10	0.45	298	27	0.03	5	690	3	0.72	<2	1	177	<20	0.1	<10	<10	27	50	39	
X982469	0.021	1.2	1.81	4	<10	20	<0.5	4	7.75	0.9	13	7	5360	9.01	10	1	0.04	<10	0.31	140	0	0.05	8	710	4	0.22	<2	2	113	<20	0.08	<10	10	38	10	83	
X982470	0.097	2	1.25	4	<10	10	<0.5	7	4.75	0.5	15	21	7900	2.05	<10	<1	0.03	<10	0.49	701	237	0.06	9	570	4	0.21	3	1	202	<20	0.1	<10	10	46	80	34	
X982471	0.052	2.2	1.55	<2	<10	30	<0.5	14	1.61	<0.5	9	41	3990	2.11	<10	<1	0.08	<10	0.55	336	167	0.09	7	500	4	0.42	<2	2	195	<20	0.04	<10	<10	48	<10	27	
X982472	0.026	0.7	1.32	<2	<10	40	<0.5	3	1.32	<0.5	4	28	1580	5.05	<10	<1	0.09	<10	0.45	130	336	0.02	5	460	4	0.28	<2	1	108	<20	0.1	<10	<10	32	<10	15	
X982473	0.013	0.2	3.08	<2	<10	50	<0.5	2	2.65	<0.5	17	27	652	2.02	10	<1	0.06	10	3.08	640	174	0.06	21	770	4	0.12	<2	9	209	<20	0.2	<10	<10	86	20	98	
X982474	0.043	0.9	1.72	<2	<10	40	<0.5	4	2.52	<0.5	9	11	1825	2.08	10	<1	0.03	10	1.53	436	143	0.08	12	690	3	0.66	2	3	171	<20	0.05	<10	<10	51	200	24	
X982475	0.005	<0.2	0.04	<2	<10	30	<0.5	<2	>25.0	<0.5	<1	<1	24	0.11	<10	2	0.01	<10	0.67	90	1	0.01	2	80	<2	<0.01	<2	<1	95	<20	<0.01	<10	<10	1	<10	3	
X982476	0.077	3	1.98	<2	<10	30	<0.5	13	3.23	0.5	14	46	9070	3.31	10	<1	0.03	10	1.74	422	985	0.06	26	1080	7	1.12	<2	6	244	<20	0.04	<10	<10	71	<10	36	
X982477	0.208	6.8	1.41	<2	<10	40	<0.5	30	2.56	0.7	12	38	>10000	3.41	10	<1	0.03	10	1.09	330	415	0.07	28	950	11	1.99	<2	6	279	<20	0.04	<10	10	73	10	27	1.28
X982478	0.441	16.4	1.53	5	<10	20	<0.5	8	8.63	0.9	13	27	>10000	4.21	10	<1	0.07	10	1.25	106	0	0.03	21	880	13	1.52	<2	5	404	<20	0.09	<10	<10	74	70	45	1.875
X982479	0.023	1.3	2.09	6	<10	10	<0.5	<2	9.66	<0.5	10	22	2260	3.73	10	<1	0.05	10	1.29	133	35	0.03	13	880	2	0.16	<2	4	168	<20	0.01	<10	<10	76	380	60	
X982480	0.005	<0.2	1.87	3	<10	40	<0.5	2	3.25	<0.5	8	36	297	1.64	10	<1	0.08	10	1.21	394	40	0.06	20	1120	3	0.03	<2	5	195	<20	0.05	<10	<10	48	220	30	
X982481	0.005	<0.2	2.23	<2	<10	30	<0.5	<2	2.75	<0.5	6	30	290	1.51	10	<1	0.11	10	0.89	256	90	0.06	16	860	4	0.44	<2	3	148	<20	0.03	<10	<10	49	400	15	