

YMEP FINAL SUBMISSION FORM

Your feedback on any aspect of the program:

The Department of Energy, Mines and Resources may verify all statements related to and made on this form, in any previously submitted reports, interim claims and in the Summary or Technical Report which accompanies it.

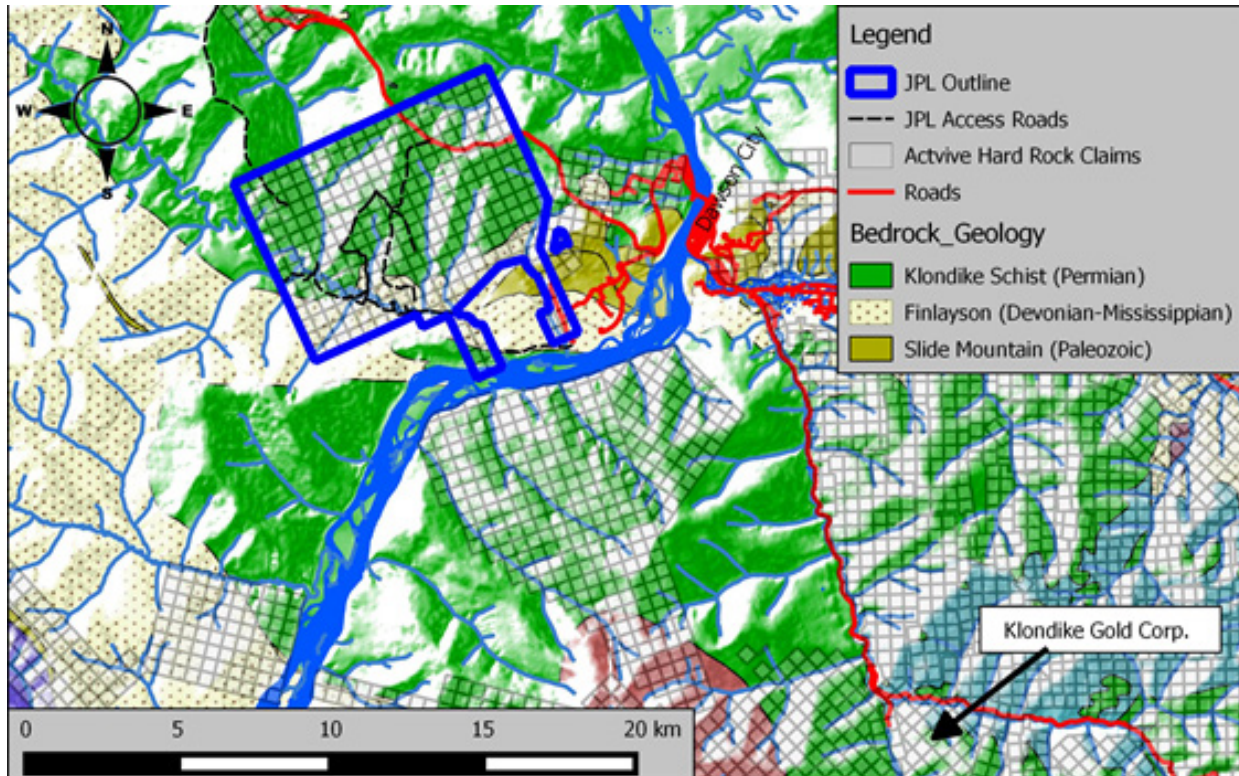
I certify that;

1. I am the person, or the representative of the company or partnership, named in the Application for Funding and in the Contribution Agreement under the Yukon Mining Incentives Program.
2. I am a person who is nineteen years of age or older, and I have complied with all the requirements of the said program.
3. I hereby apply for the final payment of a contribution under the Yukon Mineral Exploration Program (YMEP) and declare the information contained within the Summary or Technical Report and this form to be true and accurate.

Date _____

Signature of Applicant _____

Name (print) _____



2015 EXPLORATION OF THE JPL HARD-ROCK CLAIMS

Geochemical and Prospecting Report

Claim Name and Num.	Grant Numbers	Claim Owner
JPL 1 - 14	YE79885 - YE79898	Spere Exploration Inc. – 100%
JPL 15-306	YF04005 - YF04296	Spere Exploration Inc. – 100%

Author: Morgan Fraughton

Dawson Mining District

Dates work performed: Aug. 16-27, Aug. 31-Sept 8, (2015)

Mapsheet 116B04

UTM Zone 7

566600 Easting

7104600 Northing

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INTRODUCTION (WITH SPECIFIC OBJECTIVES OF THE SURVEYS)

This report outlines explorations on the 306 JPL quartz claims in the Dawson mining district of Yukon, Canada. The JPL-property (JPL) is located a short distance (~10 km) from Dawson City, Yukon. Most of the property has road/trail access. Spere Exploration Inc. (SpereX) collected 623 soil-samples, 39 Rock samples from 9 prospecting traverses, and cut 2 km of access trails. All work was done Aug. 16th- 27th, Aug. 31st-Sept 8th of 2015. The JPL property is a quartz vein/schist-disseminated gold target hosted in the metavolcanic-Klondike Schist (KS) unit of Yukon Tanana Terrane.

Specific objectives of the 2015 JPL explorations were to:

1. grid soil sample the most prospective areas defined by reconnaissance soil-sampling and prospecting in from 2014
2. conduct more property-wide prospecting and outline a basic geological map of the entire JPL property

SUMMARY OF PREVIOUS INVESTIGATIONS (HISTORY)

SpereX staked the JPL property to its current size of 306 quartz claims in the fall of 2013. Staking was done in order to cover a large area that extended between the original claims JPL 1-14 (2012) and an area of high prospectivity for copper/lead/zinc that was discovered by Cominco Ltd. (Cominco) in 1994 (Pride, 1996). Initially, Cominco had done their own stream sediment survey of the area (unpublished) and stated in their report (Pride, 1996) that the stream sediment collection program results prompted them to stake claims and do some prospecting and B-horizon soil sampling on the property (Pup property). Results from Cominco's 1995 soil sampling program looked to be good and worth a return to the property but in the summer of 1995 a drill hit volcanogenic massive sulfide (VMS) in the Finlayson district of Yukon. Since Cominco had much interest in the Finlayson district this would have been distracting. All of their resources seemed to quickly focus on the Finlayson district and the new VMS discoveries and they dropped their Pup claims by 1996. In the report (Pride, 1996) Cominco never assayed for or even spoke of the possibility of gold on the property.

During late 2013 some prospecting traverses were performed by SpereX and good results were returned in rock sample assays. Highlights in rock samples included up to 9.3g/ton gold, 2538 PPM lead, 1102 PPM zinc, and 3028 PPM copper.

In the summer of 2014 more prospecting was done along with ridge and spur soil sampling. Soil sampling returned areas anomalous in gold, silver, copper, zinc and lead. The best of these areas were the target of this 2015 exploration program.

It must be noted that in previous assessment reports (2012, 2013, 2014) the JPL was referred to a volcanogenic massive sulfide base-metal target. Due to more extensive soil-sampling and prospecting the mineralization model has changed to an orogenic vein/disseminated gold prospect similar to that of the Lone Star property, owned by Klondike Gold Corp., located less than 20km to the southeast. In addition, changes to the names of some of the bedrock units in the area have been made in the last year by Yukon Geological Survey (YGS). What was known as

Anvil Range unit and Nasina unit are now called the Slide Mountain and Finlayson unit, respectively. The Klondike schist unit has retained its original name.

LIST OF CLAIMS WITH GRANT NUMBERS, NAME OF REGISTERED CLAIM HOLDER AND THE OPERATOR WHO PAID FOR THE WORK

The JPL claims are 100% owned by Spere Exploration Inc. of Dawson City, Yukon. For more detailed information, see the claims spreadsheet in the USB stick attached to the hardcopy of this report. (See *JPL Claims Overview*).

Claim name/number	Grant Number	Claim Owner
JPL 1-14	YE79885 - YE79898	Spere Exploration Inc. – 100%
JPL 15-306	YF04296 - YF04005	Spere Exploration Inc. – 100%

The funds to complete exploration in 2015 came from two sources:

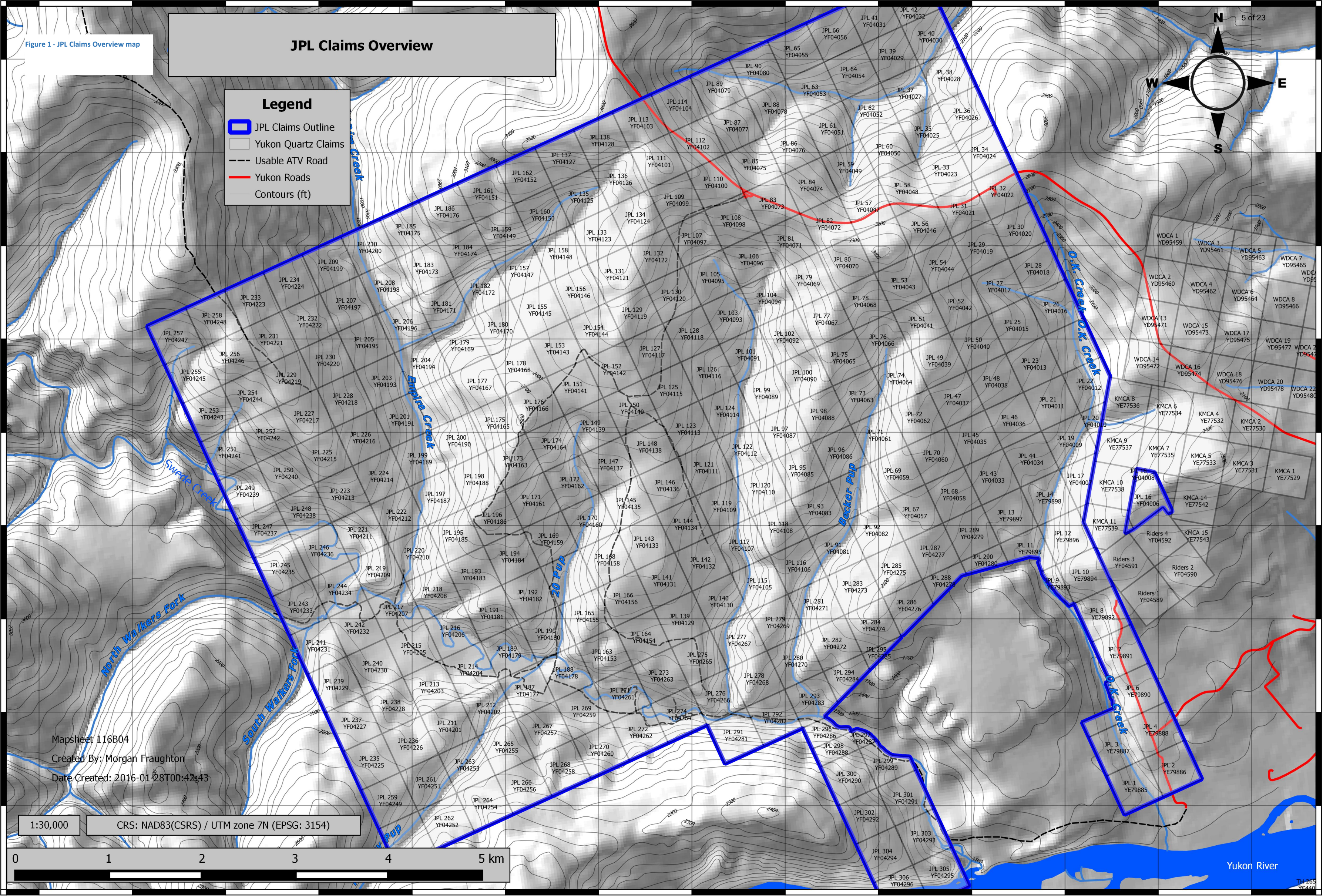
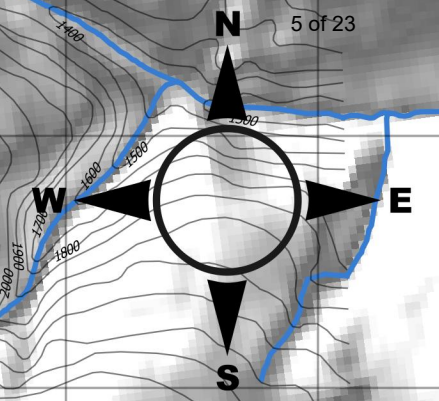
- 1) privately raised by SpereX of Dawson City, Yukon
- 2) the Yukon Mineral Exploration Program (YMEP) under the Target Evaluation module for hard-rock exploration. YMEP #15-077.

Figure 1 - JPL Claims Overview map

JPL Claims Overview

Legend

- JPL Claims Outline
- Yukon Quartz Claims
- Usable ATV Road
- Yukon Roads
- Contours (ft)



Mapsheet 116B04
 Created By: Morgan Fraughton
 Date Created: 2016-01-28T00:42:43

1:30,000 CRS: NAD83(CSRS) / UTM zone 7N (EPSG: 3154)



Yukon River

REFERENCE TO AVAILABLE GEOLOGY LOCAL AND REGIONAL

REGIONAL GEOLOGY

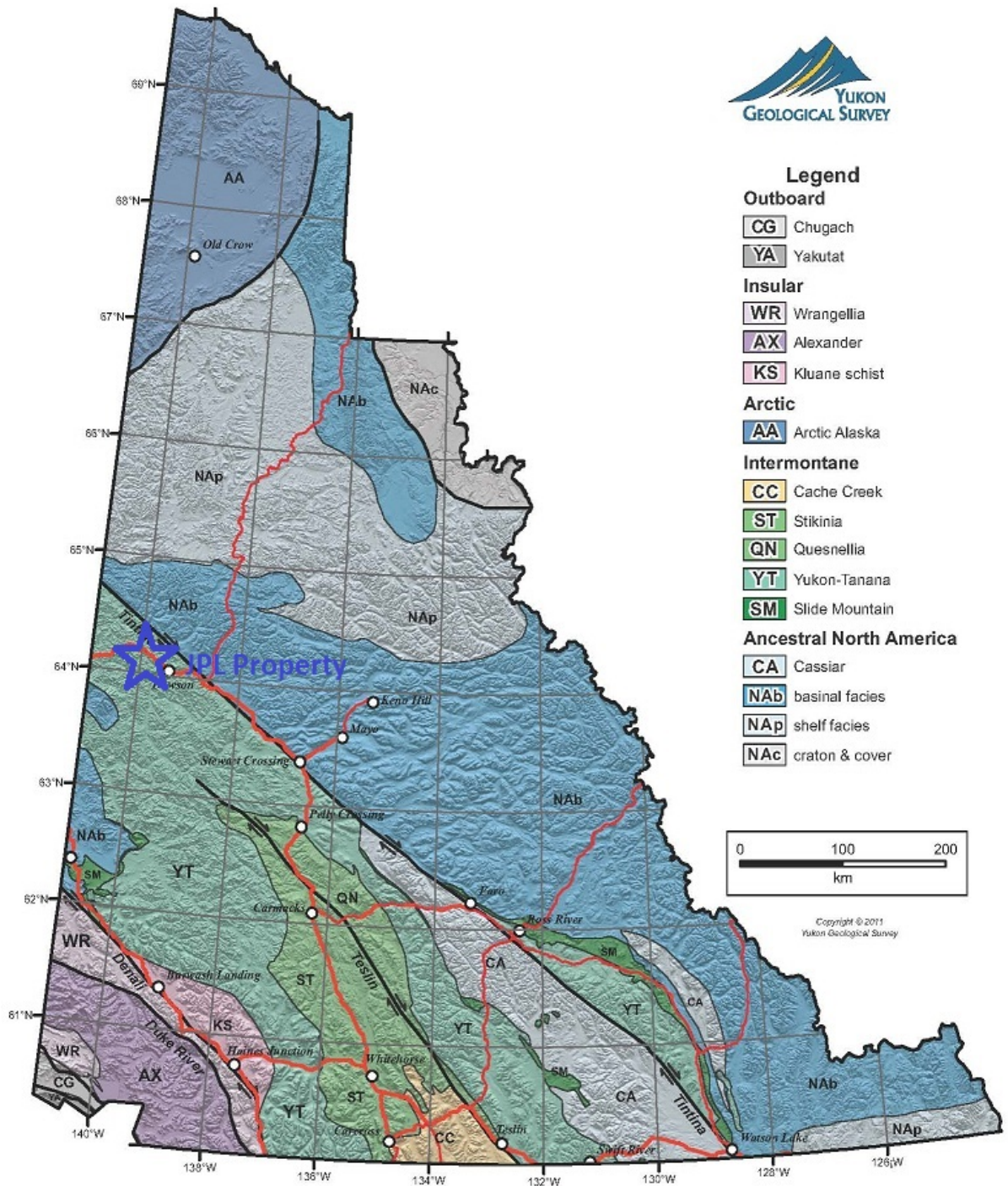
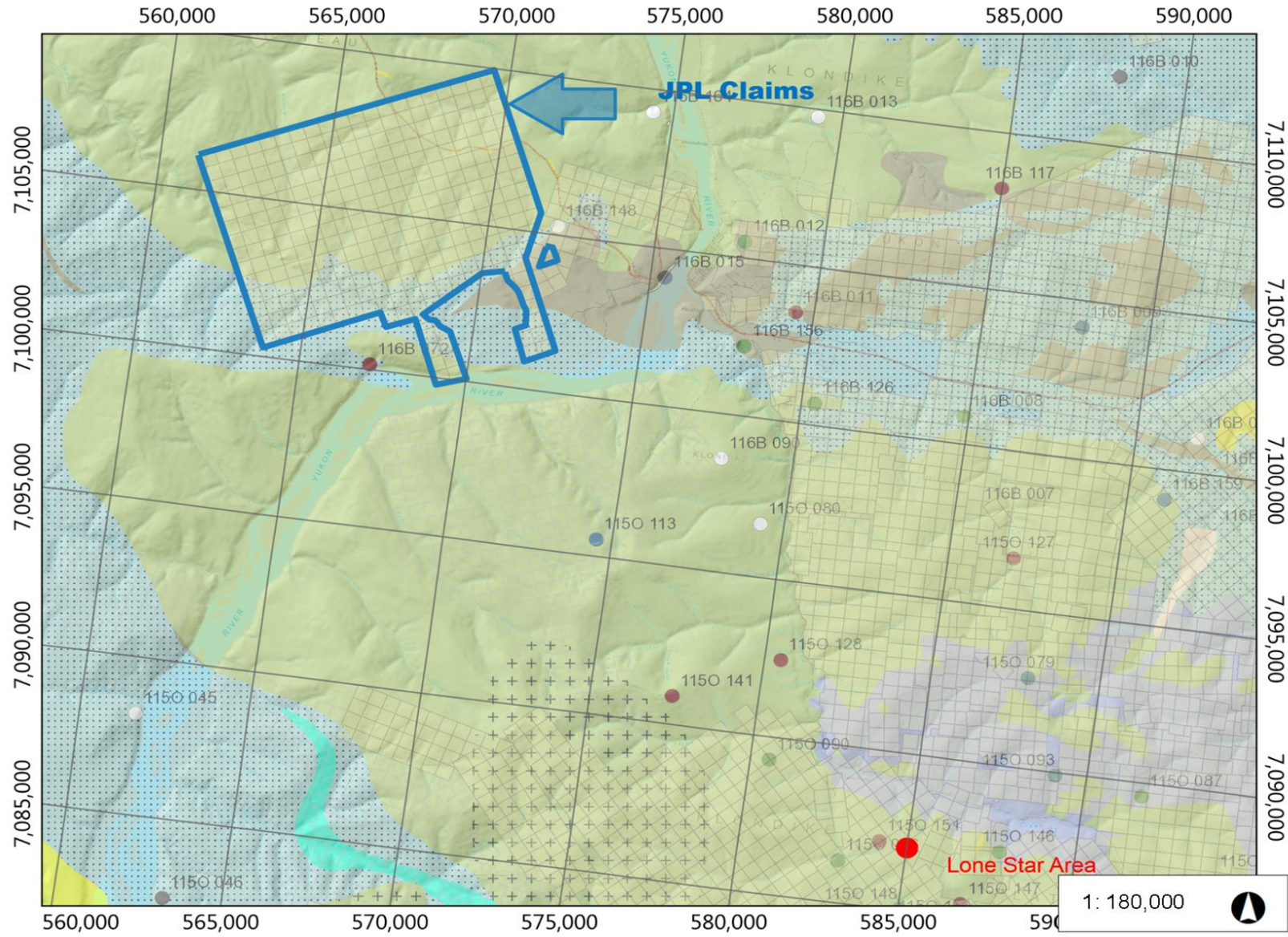


Figure 2 - Yukon Terranes, taken from YGS's website



Legend

Quartz Claims (50K)

- Active and Pending
- Expired

Mineral Mining License

Mineral Occurrences (MINFILE)

- Anomaly
- Deposit
- Drilled Prospect
- Open Pit Past Producer
- Open Pit Producer
- Prospect
- Showing
- Staked - No Work Recorded
- Underground Past Producer
- Unknown

Bedrock Geology

- Q: QUATERNARY: unconsolidated glaciolacustrine deposits; fluviatile silty local volcanic ash, in part with cover deposits
- MW: WRANGELL SUITE: fine to medium grained hornblende biotite granodiorite and medium grained hornblende granodiorite; medium grained pyroxene gabbro; subvolcanic rhyolite, rhyodacite, dacite, and trachyte
- TQS: SELKIRK: resistant, brown weathered, jointed, vesicular to massive basaltic tuff and breccia (Selkirk Volcanic Suite)
- PW1: WALSH: resistant, white weathered (Walsh Creek)
- PW2: WALSH: resistant, thick bedded well-indurated conglomerate with medium sandstone; white mudstone with interbedded and minor coal (Walsh Creek)

1: 180,000

9.1 0 4.57 9.1 Kilometers
 Yukon Albers
 Produced from: Yukon Geological Survey MapMaker Online

This map is a user generated static output from an Internet mapping site and is for reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.
 Date Printed: 31-Jan-2016

Notes

Figure 3 - Bedrock geology around the JPL claims. See legend below.

AGE	reg_name	reg_desc	reg_legend
CARBONIFEROUS AND PERMIAN	Slide Mountain	dominantly oceanic assemblage of mafic volcanics (1), ultramafics (4), chert and pelite (2), limestone (3) and	CPA:Slide Mountain: dominantly oceanic assemblage of mafic volcanics (1), ultramafics (4), chert and pelite (2), limestone (3) and gabbroic rocks (5)
CARBONIFEROUS AND PERMIAN	Klondike Schist	poorly understood assemblage of metamorphosed pelitic/volcanic rocks (1) and minor marble (2), including phyllite of uncertain association (3)	CP: KLONDIKE SCHIST: poorly understood assemblage of metamorphosed pelitic/volcanic rocks (1) and minor marble (2), including phyllite of uncertain association (3)
DEVONIAN, MISSISSIPPIAN AND(?) OLDER	Finlayson	graphitic quartzite and muscovite quartz-rich schist (1), (3)-(5), and(?) (6) with interspersed marble (2) and probable correlative successions (7) - (9)	DMN: Finlayson: graphitic quartzite and muscovite quartz-rich schist (1), (3)-(5), and(?) (6) with interspersed marble (2) and probable correlative successions (7) - (9)

Figure 4 - Geology legend for figure 3 Bedrock geology map around the JPL

Regional bedrock geology associated with the JPL property is best described by (MacKenzie, Craw, & Mortensen, 2008) (page 214)

The main basement lithologic units of the Klondike District form part of the Yukon-Tanana terrane and include medium-grade metamorphic rocks of the Upper Permian Klondike Schist, carbonaceous schist of the Devonian-Mississippian Finlayson assemblage (*Nasina fades*), and little-metamorphosed Late Paleozoic greenstone and ultramafic rocks of the Slide Mountain terrane (Fig 1.; Mortensen, 1990, 1996; Mortensen et al., 2007). These units were thrust-imbricated in the Early Jurassic (Mortensen, 1996) resulting in a series of stacked thrust slices that are locally separated by lenses of ultramafic rocks. The uppermost slices are Klondike Schist and consist of complexly interleaved (1- to 100-m-scale) greenschist-fades quartzofeldspathic, chloritic, micaceous and minor carbonaceous schists. The two upper slices of Klondike Schist host significant orogenic gold and are the focus of current research into the structural controls on gold-bearing veins (MacKenzie et al., in press).

The thrust stack was uplifted through the brittle-ductile transition in the Jurassic and unconformably overlain by locally derived sedimentary and volcanic rocks in the Late Cretaceous (Mortensen, 1996). Regional extension and normal faulting continued from Late Cretaceous to early Eocene with initiation of the strike-slip Tintina fault, along which rocks of the Klondike District were offset -450 km from the rest of the Yukon-Tanana terrane (Gabrielse et al., 2006). Minor regional uplift continued in the late Tertiary when erosion produced the Pliocene White Channel Gravels and the world-famous Klondike gold placer deposits (Lowey, 2005). Exposure of basement rocks in the Klondike District is generally poor due to extensive colluvium and permafrost on the tree-covered slopes (Bond and Sanborn, 2006).

Deformation events and mineralization on JPL are best described by (Liverton & Mann, 2011) in their study of Klondike schist south of Dawson City:

The regional bedrock unit is the Klondike Schist, a widespread Middle to Late Permian unit of the Yukon-Tanana terrane. The greenschist facies siliciclastic metasedimentary and bimodal metavolcanic rocks form a thrust stack (Mortensen, 1990, 1996; Mackenzie et al., 2007; Mackenzie et al., 2008a). These rocks and the coeval Sulphur Creek orthogneiss, located 15 km to the southwest, are remnants of a short-

lived arc overlying the north and west-dipping subduction of the Slide Mountain Ocean (269 to 253 Ma Klondike cycle of Nelson et al., 2006), which represents the last magmatic cycle of Yukon-Tanana terrane before its accretion to the margin of Laurentia. Less than 1 km east of the study area (Fig. 1), a road-cut exposes a thrust slice of Klondike Schist overlying altered ultramafic rocks interpreted as a sliver of Slide Mountain terrane (Mortensen, 1996). The rocks within the study area are structurally near the base of the hanging wall. The dominant lithology is chloritic schist (here referred to as the mafic schist unit), one of the three broad lithologic groupings of the Klondike Schist (Mortensen, 1990, 1996). The structural geology of the Klondike district as described by MacKenzie et al. (2007) hosts four generations of deformation. D1 isoclinal folding (S1) transposes original bedding (S0) such that hinges of this generation appear as intrafolial cm-scale folds. The second ductile deformation event produced isoclinal recumbent folds (Fig. 2a) and pervasive penetrative foliation (S2). Hinges of these folds have decimetre-scale wavelength and are locally apparent within the Klondike Schist and are particularly well developed at the Orekon prospect (Fig. 1). Ductile folding (D3) during thrust stacking produced recumbent folds with a spaced cleavage (S3) that are well developed in the muscovite-rich schist (Fig. 2b). A phacoidal cleavage is exhibited in some thrust fault zones. Folding of D4 generation is of mesoscopic-scale kink or box-fold style that has axial trends from ten to eighty degrees different to those of F3 axes. D3 folding occurred in a ductile regime whereas D4 folding formed near the brittle-ductile transition. Quartz veins were formed locally during D2 to late D4. Only the undeformed late D4 mesothermal quartz veins contain obvious gold mineralization. Younger brittle faults with gouge zones are exposed in several trenches throughout the Klondike. The Klondike region has not been glaciated, and outcrops in the study area are variably oxidized.

JPL seems to be identical to the description above with respect to the KS geology and gold mineralization. It is possible that the rock described in this paper as quartz-augen-schist is this Sulphur Creek orthogneiss described above. This rock type (quartz-augen-schist) exists mostly in the very southern parts of JPL.

LOCAL GEOLOGY

Local JPL geology is mostly underlain by the KS (Permian). In the most southerly section of JPL there is a contact between the Finlayson unit and the KS. The Slide Mountain unit only pokes in to the very west side of JPL and possibly exists at the very northern borders the property as well. The important mineralization zones on JPL exist in the large sections of KS.

In addition to the units described above, there are areas of much younger quartz-feldspar-porphyry (QFP) dykes/sills (of Paleocene age?) that are 1-10 meters thick. Previously reported as dykes previously but quite possibly they are large sills that follow the foliation/bedding in the KS which has been thrust on its side, generally, with strike of ~320 degrees and a dip of ~50 degrees throughout JPL. These dykes/sills have not been observed in any unit other than the Klondike schist. The dykes/sills do not seem to be associated with economic mineralization thus far. Samples of the QFP have been assayed with 36-element ICP-MS and return no elevated values in elements of economic interest. Looking at soil assay results in areas that are known to be underlain by the QFP dykes/sills it is clear that the dyke/sills are consistently higher than the rest of the property nickel (269 PPM), cobalt (21 PPM), manganese (2497 PPM), iron (3%), strontium (541 PPM), antimony (11 PPM), calcium (14%), chromium and magnesium (7.2%) and lowest in barium (22 PPM), potassium (0.002%).

JPL is made up of mafic and felsic KS; majority mafic. Mineralization on JPL seems to come in 3 different styles 1) in mafic (quartz-chlorite-biotite-schist) KS near the contact between the mafic and the felsic KS there seems to be spikes in copper, lead, zinc with elevated gold and silver similar to volcanogenic massive sulfide style mineralization (VMS) 2) in the felsic schists (quartz-muscovite-sericite-schist) D4 event quartz veins have returned the highest gold in rock values on the property. It is also expected that, like the Sheba vein, gold in these quartz veins extends for a short distance (<10 cm) in to the vein wall rock (felsic-KS) 3) Possibly, disseminated bulk tonnage style gold similar to that of the Lone Star mine area? unproven on JPL but entirely possible due to very similar geology.

DESCRIPTION OF DATA COLLECTED (GEOCHEMICAL, GEOLOGICAL, GEOPHYSICAL), METHOD OF COLLECTION, EQUIPMENT AND PROCEDURES

GRID SOIL SAMPLING PROGRAM

Spere Exploration Inc. (SpereX) collected 623 soil-samples over 12 days (20 man-days) from August 16th – 27th. Two different soil-samplers partook in soil-sample collection. Morgan Fraughton, and Travis Farman both of Dawson City, Yukon. Each day the samplers would come from Dawson with a truck, trailer and ATV's to km 15 on the Top of the World Highway (TWH). Then the ATV's were offloaded and the samplers drove down to the soil grid.

In order to access the soil-sampling grid a section of older overgrown road needed to be cleared so that ATV's could access the grid. Four days (July 6, 8,9,10) (8 man-days) were spent clearing a trail through the overgrowth. Two cutters were employed; Morgan Fraughton and Travis Farmen for all four days. Cutting was very difficult and tedious due to the extremely thick alder growth on the old roads. In addition, fine loess covered the lower parts of brush and mosses which rendered cutting tools dull very quickly. Approximately 2 km of road was cut at a rate of 500 meters per day.

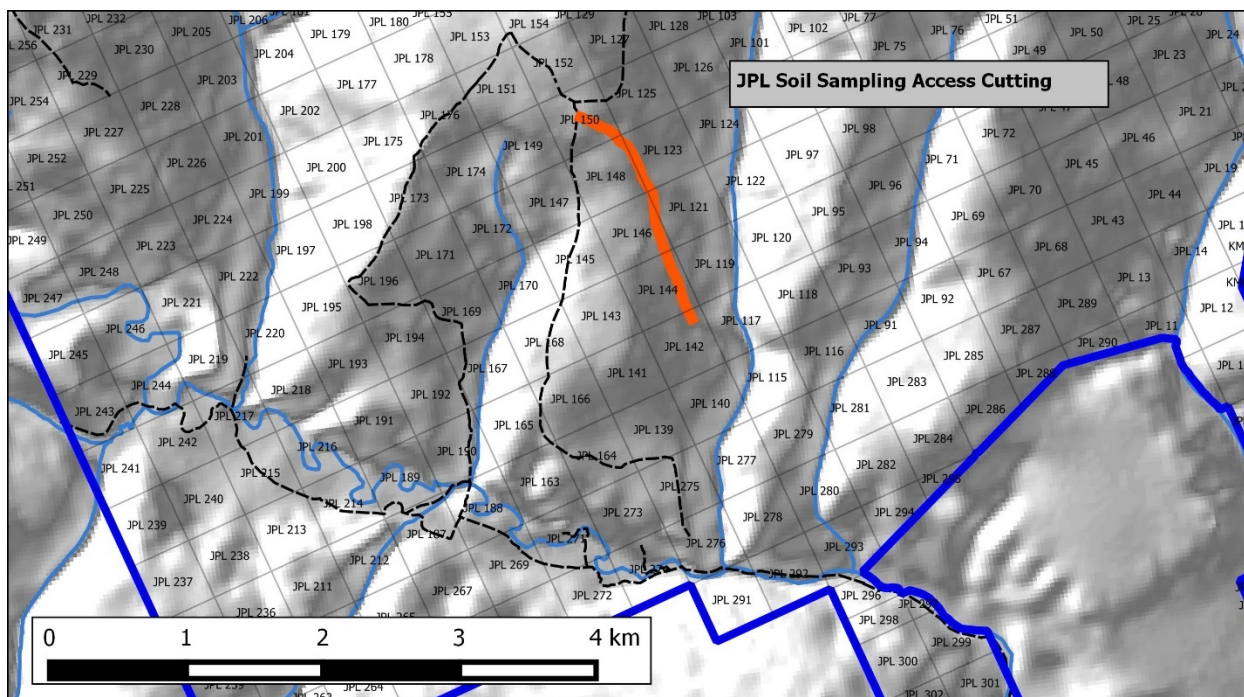


Figure 5 - soil sampling access trail cutting

The soil grid was laid out in a GIS (QGIS, a powerful, free, open source-code GIS) by Morgan Fraughton. Points and lines were transferred to GPS/Data recorder handheld device (Garmin Monterra). The soil grid was designed to have a line spacing of 100 meters and a sample spacing of 50m. Individual sampling lines were 1.5 kilometers long, which made for an average sample collection of 31 samples per man-day.

The samplers' handheld device was used to navigate to each soil sample location and record site-specific information for each soil-sample. In addition to being a powerful Garmin GPS and camera, the Monterra runs on an Android operating system, an open source-code operating system, which makes customization easier than proprietary software with closed source-codes. For data collection, software called Open Data Kit (ODK), an open-source, free, data collection system that streamlines form creation, form filling, and data storage in multiple database/output formats. This system (hardware and software), makes collection, storage, and interpretation of large amounts of subjective (soil color, etc.) data, and objective (GPS Coordinates, etc.) data, including photo's, simple.

Soil samplers used a 1.2m long dutch-auger to collect soil-samples. At every soil-sample site maximum depth was attempted with the auger. As the sampler twists the auger in to the ground and pulls out a plug of soil it is laid out on a 12x18 inch poly sample bag from shallowest to deepest. Once maximum depth is reached the soil from the bottom of the hole is laid on the plastic ore bag and the auger is put back in the hole. The sampler then steps back to take a picture of the sample site, then snaps a photo of the soil-sample and sample tag that is laid out on the ore bag. Next, the sampler scans the barcoded sample tag with handhelds' barcode scanner and fills out the individual soil form on the handheld device, recording observations such as soil color, sample depth, soil horizon, etc. (See sample spreadsheets in the USB stick attached to the hardcopy of this report in order to see the full range of sample records.) Once the soil form is filled out the sampler fills a Kraft paper soil-sample bag with soil from the bottom of the hole and places one sample tag in the bag. The sample bag is folded and tied closed with flagging tape and a sample tag is attached to the outside of the bag. The bag is placed in the samplers' backpack with the

rest of the samples. Lastly, the sampler ties pink flagging and a sample tag to the closest tree branch or bush to the sample hole for easy identification in the future. The sampler navigates to the next site using the GPS.



Figure 6 - Tying flagging and sample tag to the closest tree to the sample hole.

PROSPECTING PROGRAM

Prospecting was done on JPL for a total of 9 days (18 man-days); August 31 – September 8. Prospecting work was performed by Morgan Fraughton and Travis Farnen. Access to the prospecting traverses was made by Truck and trailer on the highway then ATV's off highway. Each day of prospecting was spent walking traverses on the JPL property looking for rock outcrops, float, or anything of interest. In addition to walking reconnaissance style traverses, some of the better 2014 soil and rock sample sites were visited. In places of good 2014 soil a pit would be dug in order to find rock samples near bedrock for assay. The main goal of prospecting was to gather baseline geological data and observe any interesting features or geology.

Typically, when traversing and prospecting, Travis and Morgan split (<50 m) apart from each other but walked in parallel so that more areas of the ground could be seen during traverses. Most of the prospecting traverses were

done on the old roads that wind through the JPL property. It was known this would be the best chance of finding rock on this property that would be in the old road cuts, so they were the first areas to be traversed.

Tools used for prospecting were basic rock hammers, soil augers, hand lenses, compass, (for measuring strike and dip) and mattocks. All notes and observational data was collected with the customized handheld device. A form was created to make prospecting notes and create geotagged photos. The idea was that this would make it easy to display the photos and observations in to a GIS and then used that information to create a geological map of JPL.

Also, on prospecting traverses, rock grab samples were taken. The customized handheld device was used to record the barcoded sample identification, take pictures, record locations, make notes, etc. (see the spreadsheet attached to the USB stick of for more information on all the data that was collected.) After this data was recorded in the handheld the rock sample was placed in to an ore bag with a sample tag. The bag was tied shut with flagging tape and another sample tag was attached to the outside of the sample bag. In addition, example rocks of the type of the sample taken were left at the sample site with orange flagging wrapped around them and the sample tag plus orange flagging was tied to a visible area for future reference.



Figure 7 – Example sample and sample-site pictures taken for each rock sample.

At the end of each prospecting traverse all rock samples collected were stored in Dawson City. At the end of the sampling program the assays were packaged in to rice bags and shipped to Acme Labs (BeuroVeritas) of Whitehorse where they were prepped crushed and sieved and then pulps shipped to Vancouver for assay. All rock samples were assayed using a 36-element ICP-MS. See assay certificates on USB stick for more detailed information.

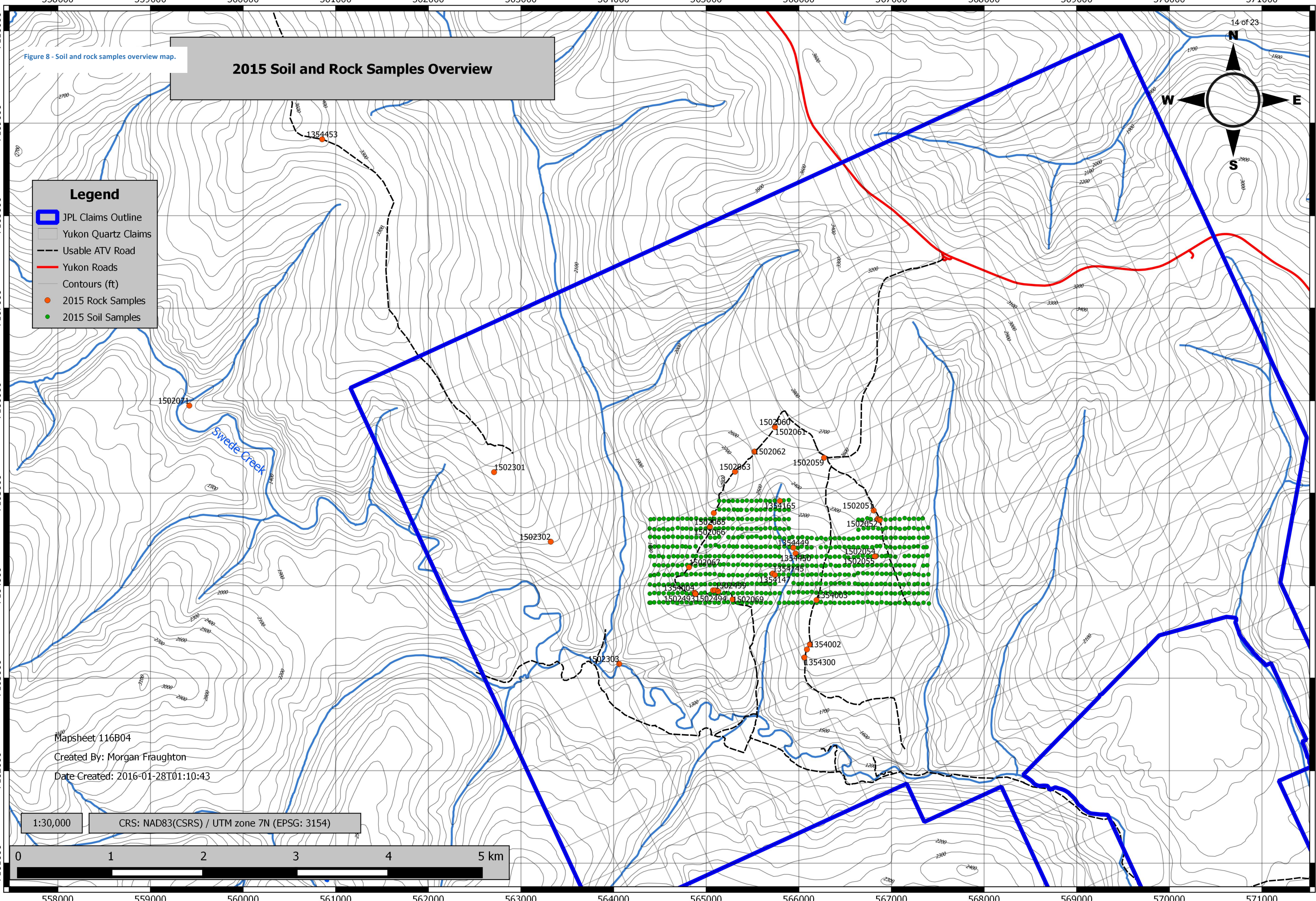
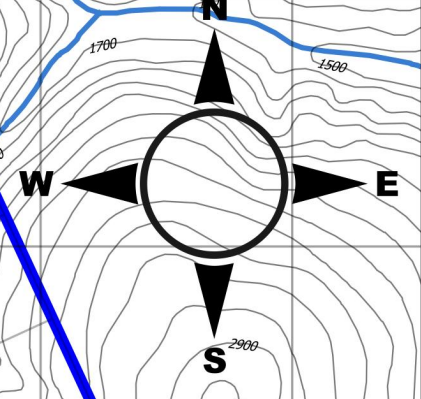
Once assay results were received they were joined in a spreadsheet with the descriptive data from the sample forms and plotted in a GIS. In the GIS all assay results, notes, and pictures could be viewed by clicking on the respective sample point. With all results organized in to shp files interpretations could be made.

Figure 8 - Soil and rock samples overview map.

2015 Soil and Rock Samples Overview

Legend

- JPL Claims Outline
- Yukon Quartz Claims
- Usable ATV Road
- Yukon Roads
- Contours (ft)
- 2015 Rock Samples
- 2015 Soil Samples



Mapsheet 116B04
 Created By: Morgan Fraughton
 Date Created: 2016-01-28T01:10:43

1:30,000 CRS: NAD83(CSRS) / UTM zone 7N (EPSG: 3154)

2015 Soil and Rock Samples

Legend

- Yukon Quartz Claims
- Usable ATV Road
- Contours (ft)
- 2015 Rock Samples
- 2015 Soil Samples

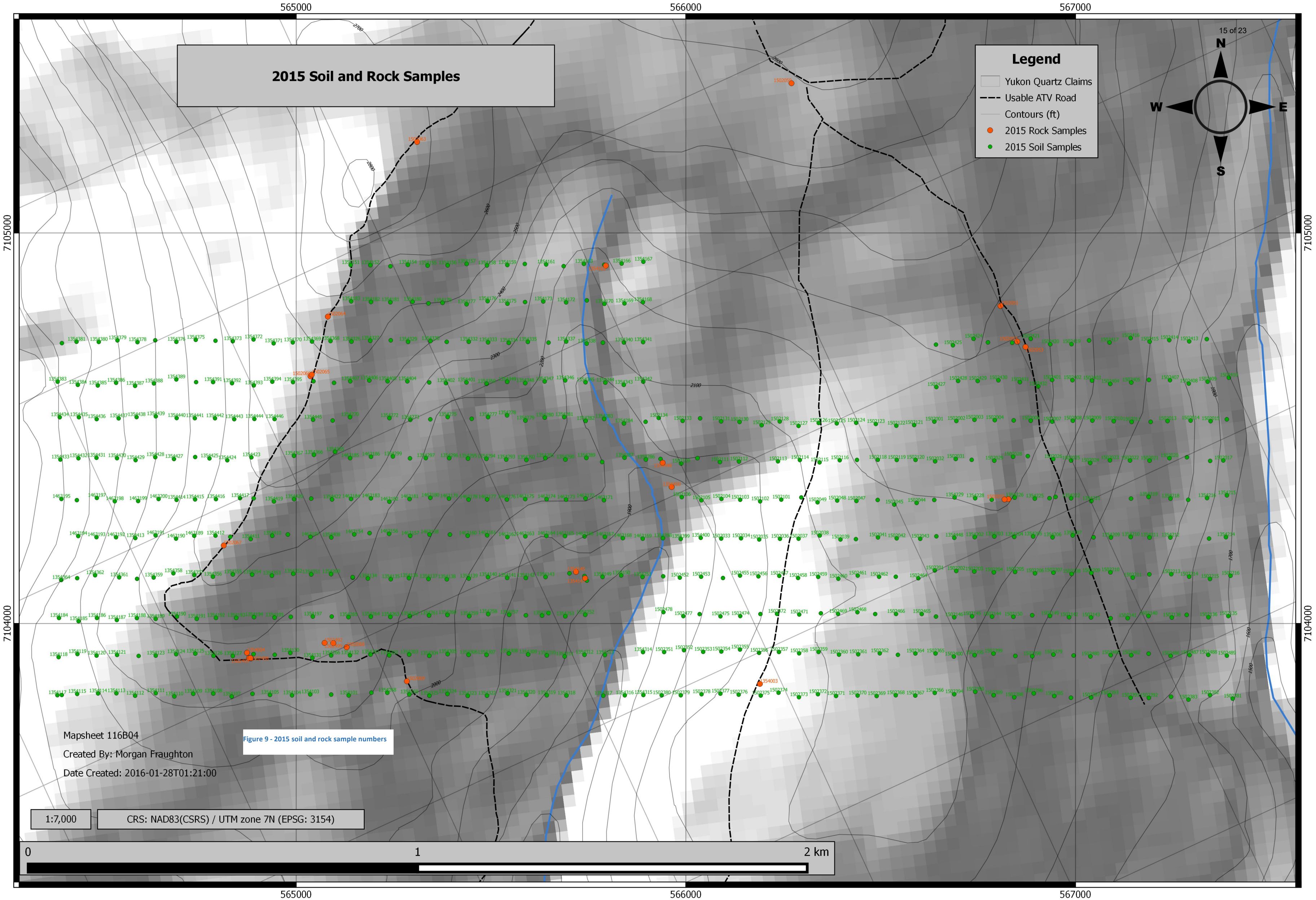
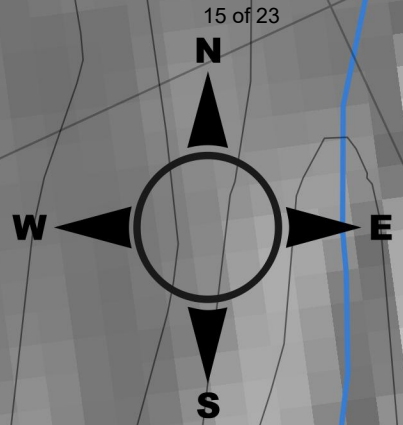


Figure 9 - 2015 soil and rock sample numbers

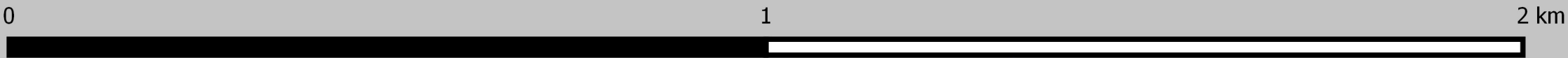
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565000

566000

567000

7105000

7105000

7104000

7104000

15 of 23

Figure 10 - Gold in soil - areas of high prospectivity

Gold in soil - Areas of high prospectivity

Mapsheet 116B04
Created By: Morgan Fraughton
Date Created: 2016-01-31T14:16:35

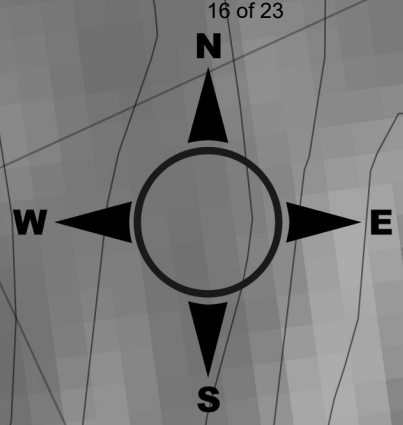
Possible larger zone of prospectivity for gold (orange). Samples between the two "pink" zones are all in a heavy layer of frozn/loess/colluvium. Very rarely was "C"-horizon reached in this zone.

Legend

- Usable ATV Road
- yukon_roads
- Yukon Quartz Claims
- Contours (ft)

2015 Gold in Soil Samples (PPB)

- 0-2
- 2-10
- 10-20
- 20-25
- >25



7105000

7105000

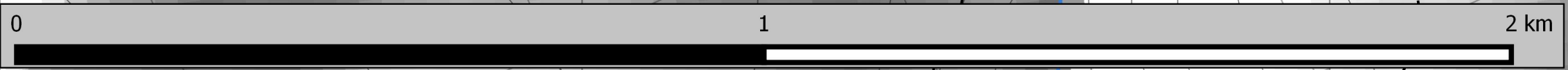
7104000

7104000

29g/t Au found in rock here.

Area of high prospectivity for more gold in Rock

1:7,000 CRS: NAD83(CSRS) / UTM zone 7N (EPSG: 3154)



565000

566000

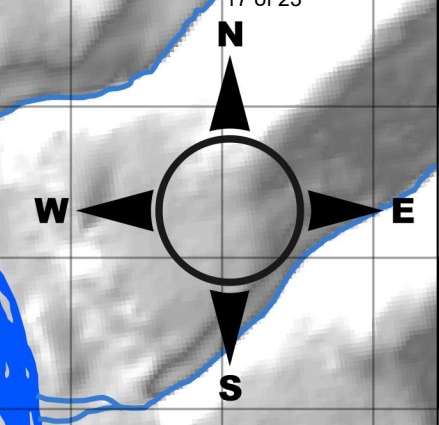
567000

2015 Prospecting Traverses, Mapping note locations, and Claim Access

Figure 11 - prospecting traverses, mapping note locations, and claim access

Legend

- 2015_PropectingTraverses
 - 2015-08-31
 - 2015-09-01
 - 2015-09-02
 - 2015-09-03
 - 2015-09-04
 - 2015-09-05
 - 2015-09-06
 - 2015-09-07
- Mapping Data Locations
- Usable ATV Road
- red yukon_roads
- Yukon Quartz Claims
- Contours (ft)

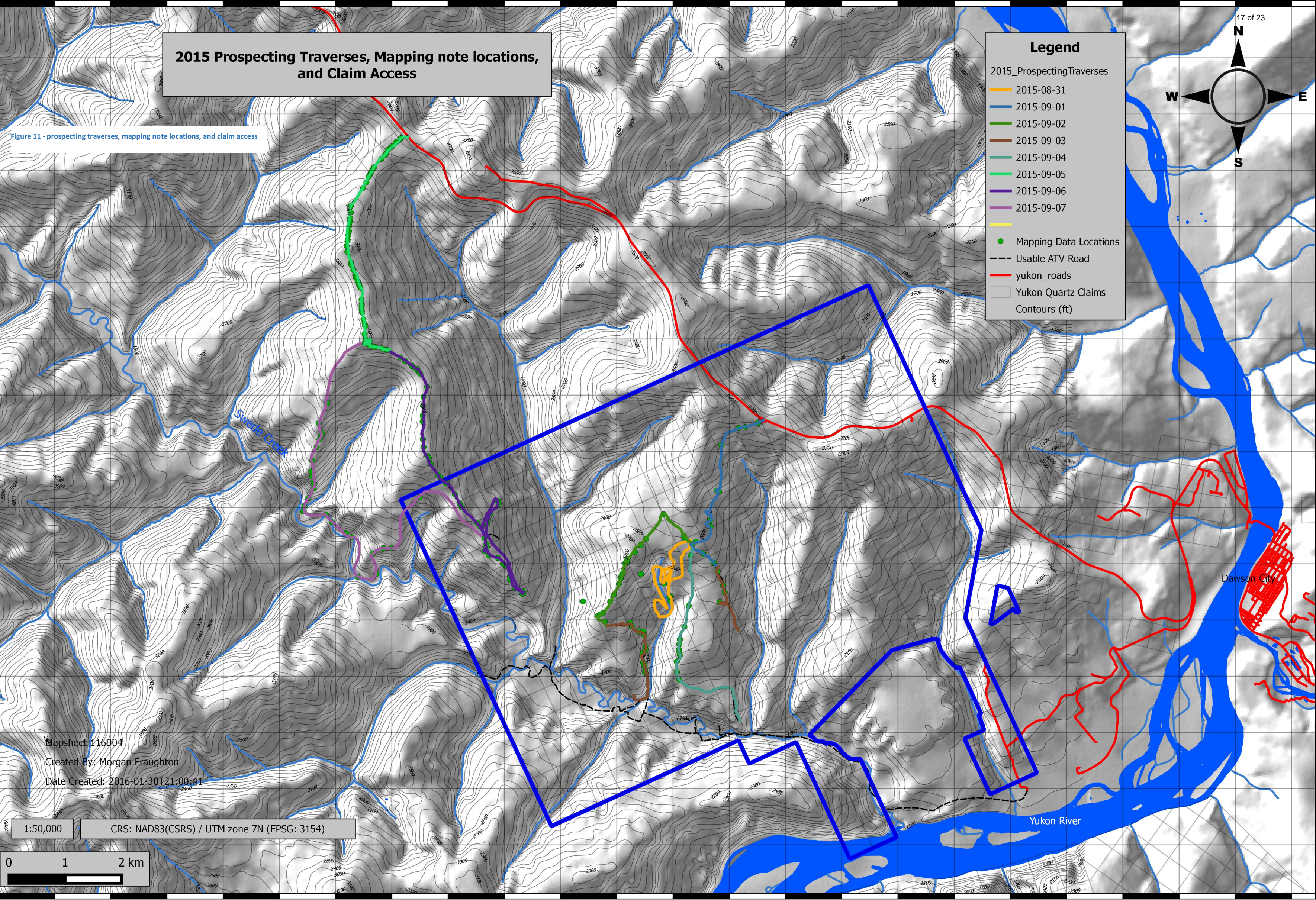
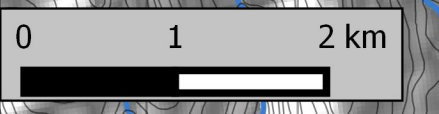


Mapsheet 116804

Created By: Morgan Fraughton

Date Created: 2016-01-30T21:00:41

1:50,000 CRS: NAD83(CSRS) / UTM zone 7N (EPSG: 3154)



DISCUSSION

SOIL SAMPLING DISCUSSION

Data collection forms on the handheld devices were designed by SpereX based on what was thought was relative information to the interpretation of each soil sample after assays were received and joined to sample description tables. Although this was effective for post sampling/assay interpretation. I just recently (late January 2016) found the paper produced in 2013 by the Yukon Geological Survey titled *Property-scale classification of surficial geology for soil geochemical sampling in the unglaciated Klondike Plateau, west-central Yukon, YGS open file 2013-15* (McKillop, Turner, Johnston, & Bond, 2013). This report contains brilliant recommendations for early explorations in the unglaciated Klondike Plateau by helping to understand how different landform soil types (LST's) (12 in total) respond to different testing (landform-soil types) and outline the best methods to use in different LST's. In future explorations SpereX will incorporate all recommendations in this study.

As seen on the map labeled, *Gold in soil – areas of high prospectivity*, grid soil sampling was successful at delineating at least two highly prospective areas for follow-up prospecting and trenching in 2016. From personal conversation with Klondike Gold Corp. personnel it is understood that any soil-sample in the region that was 25 PPB gold or higher would usually return very high gold in rock if a pit was dug down to the bedrock in that area. This will definitely be done in 2016. Trenches will be designed using the positive soil and rock results from this 2016 project. It is quite probable that areas in the two pink circles in the map, *Gold in soil – areas of high prospectivity*, contain more gold bearing veins in the felsic KS. These two areas may be linked (large orange ellipse in the same map). Since both prospective areas (pink ellipses) are separated by a large section of frozen/loess/colluvium that extends past one meter from surface very rarely was a C-horizon soil sample taken in the area in the valley of 20pup between the two pink ellipses. This may layer of frozen/loess/colluvium may serve to mask underlying bedrock geochemical signatures.

In addition, the soil sample grid should be extended on the east half to the north and south. To the north it is known that the area of felsic quartz-muscovite-sericite-schists exists for hundreds of meters to the north-east. This felsic schist is the host for gold bearing D4 style quartz veins. To the south of the soil grid on the eastern half there was a couple higher gold in soil samples. The grid should be extended to the south until the ancient gravel terrace is met with.

More study by SpereX needs to happen on how to understand and interpret a large amount of soil samples that could not reach c-horizon soils, mainly due to frozen/colluvium/loess layers. There may be large sections under these areas that can still be positive exploration targets once the dilution factor is taken in to account. SpereX will strive to understand this before the 2016 field season.

PROSPECTING

The prospecting program was designed to get as much exposure to different areas and geology of the entire JPL property as possible and make grab samples for prospective rocks. As stated above, a handheld device was used to

record geolocated notes and pictures along the traverses. It was hoped that a baseline geological map could be made up so that once the most prospective geological units were understood in the areas that have extensive soil sampling and eventually trenching. Then, once economic mineralization on the JPL was understood, areas of prospective geology throughout the JPL could be better targeted and inspected. The large amount of picture and note data collected has been included in the USB stick attached to the hardcopy of this report. A final geological map interpretation has not been completed in time to submit this report (January 31, 2016). The project will take quite some time and a lot more study to create the proper map. As it stands the data has served to outline geological units under the JPL but without a proper ability to consider 3-dimensional nature of the property anything but a lot of small polygons at existing sites is not possible. SpereX is confident that using the data collected this year as well as the data collected next season, along with hired professional instructions and hopefully some powerful 3d mapping software (leapfrog), a good geological map will be made.

Follow-up prospecting on 2013/2014 results did show a large area of quartz veining in felsic KS that has high potential to host D4 type gold quartz veins. This area had quartz in rock that assayed at almost 1 oz./ton gold (28973.7 PPB). This quartz vein ~0.5 m wide was sticking out of the road cut and likely extends in to the north of the road as well as the south in a 320 degree bearing which is typical for the D4 quartz veins on the Lone Star property of Klondike Gold Corp. This vein should be the first target for trenching in the summer of 2016.

CONCLUSIONS

Grid soil sampling on the JPL property was successful in identifying two areas of high prospectivity for gold rich quartz veins and possible bulk-tonnage, low-grade disseminated gold mineralization in the Klondike Schist. It is entirely like that these two areas of high prospectivity are in fact connected but their geochemical signature in soil samples has been diluted by a layer of frozen colluvium and loess. This large area prospective felsic KS is approximately 2.5 km². Areas where soil samples are above 25 PPB gold should be prospected with pits dug by shovel to the bedrock and then the bedrock should be assayed. Trenches should be designed based on positive results.

As stated in the discussion section above the soil sampling grids should also be expanded. If enough funding has been secured, more ridge and spur soil sampling should be done on the remainder of the property. Also, positive results from the ridge and spur program of 2014 that were not grid soil sampled in 2015 should be considered for grid soil sampling in 2016.

Prospecting has been successful at collecting large amounts of geological data¹; see figure 10 (notes and photos), delineating areas of high prospectivity based on geology, confirming significant gold in quartz vein, and gaining a basic understanding of the local geology of the bedrock under the JPL claims. This information will direct future explorations on the JPL property. The quartz vein where 29 g/t gold was assayed must be the first and most

¹ SpereX has used its' handheld device to collect large amounts of data. It was hoped that this data could be used to create a geological map for the JPL property. Since SpereX was unsure about the YMEP funding till late in the season it hindered this project in that it was planned to hire a geologist for a few days to help with the mapping and interpretation of the data. No geologist was hired this season. A lot of data was collected and is included in the USB stick that is attached to the hardcopy of this report under the folder mapping. SpereX intends to work with a leapfrog specialist in February and use leapfrog modeling software to build a geological map. This map will be passed along to YMEP once work has been completed.

important target for prospecting/trenching in 2016. An excavator should be brought to expose the extent of this vein in early summer 2016. An experienced Klondike schist geologist must be employed early in 2016 to make a property visit and assist with exploration planning and mapping interpretations. Rock samples from 2014, such as the rocks found in the southwest corner of the JPL property on the cliffs of Swede creek that contained high copper numbers and azurite/malachite coloring need to be followed up on by a geologist.

Recommendations for exploration in this part of the Yukon, must be studied and employed for future explorations on the JPL property. These recommendations for exploration in the study by (McKillop, Turner, Johnston, & Bond, 2013) would be very helpful on the JPL property. Specifically, deep sampling techniques could be employed in the large ancient fluvial terrace areas in order to get an idea of bedrock mineralization below the gravel deposits. It is expected that the mineralized zone extends from the southwest side of 2015 soil grid under these fluvial terrace deposits. (Liverton & Mann, 2011) describe whole rock geochemistry as a better exploration tool for rocks in the Klondike Schist as well as different methods for soil geochemistry interpretation for locating mineralized zones in bedrock. Their recommendations will be followed.

In conclusion, the JPL property has shown to be highly prospective for gold in the felsic Klondike Schist. All indications so far have shown striking similarities to the geology in the area of the Lone Star property owned by Klondike Gold Corp. This is significant because of the positive drill results that have been obtained on that property in 2015. Exploration should continue on JPL in 2016

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APPENDIX I: STATEMENT OF EXPENDITURES

Soil Sampling (August 16 - 27), Prospecting, Report Writing (January 2016), and Line Cutting Program (July 6, 8,9,10)				
Wages:		rate	units	total
Soil Sampler (Morgan Fraughton August 16 - 27)	per day	\$350.00	12	\$4,200.00
Soil Sampler (Travis Farmen August 20 - 27)	per day	\$350.00	8	\$2,800.00
Line Cutter (Travis Farmen July 6, 8,9,10)	per day	\$350.00	4	\$1,400.00
Line Cutter (Morgan Fraughton July 6, 8,9,10)	per day	\$350.00	4	\$1,400.00
Prospector	per day	\$350.00	9	\$3,150.00
Prospector	per day	\$350.00	9	\$3,150.00
Field Expenses (per day)				
Field Expenses (Travis Farmen)	per day	\$100.00	21	\$2,100.00
Field Expenses (Morgan Fraughton)	per day	\$100.00	25	\$2,500.00
EQUIPMENT RENTAL (per unit, per day)				
ATV 1	per day	\$40.00	25	\$1,000.00
ATV 2	per day	\$40.00	21	\$840.00
Truck	per day	\$60.00	25	\$1,500.00
Truck Trailer	per day	\$16.00	25	\$400.00
ATV Tub Trailer	per day	\$10.00	25	\$250.00
Line Cutting Kit 1	per day	\$50.00	4	\$200.00
Line Cutting Kit 1	per day	\$50.00	4	\$200.00
Assay Costs				
Soil Samples - 36 element ICP-MS	Total	\$23.37	605	\$14,137.05
Rock Samples - 36 element ICP-MS	Total	\$28.84	39	\$1,124.71
Report Writing				
Report Writing	Total			\$4,000.00
Total 2015 JPL Costs				\$44,351.76
Total daily field allowance		\$4,600.00		
Total truck costs		\$1,500.00		
Total wages paid		\$16,100.00		
Total light equipment rental costs		\$2,890.00		
Total assay/analyses costs		\$15,261.76		

APPENDIX II: STATEMENT OF QUALIFICATIONS

Morgan Fraughton

Box 1381 Dawson City, Yukon, Y0B1G0

1. I have worked in the exploration industry for 10 years (9 years in the Yukon): diamond/RC drilling (2years), oil sands drilling (1year), project manager (many jobs) for Ground Truth Exploration (5years), prospecting for myself (2years).
2. I am a resident of my home town Dawson City, and have lived all my life in Yukon
3. I compiled and wrote all sections of this report based on information from my explorations and research on the JPL property
4. I did all of the research, organizing and most of the work on all aspects of this exploration program as well as past explorations and staking on the JPL property

Signed January 31, 2016

Morgan Fraughton

Soil Sampling (August 16 - 27), Prospecting, Report Writing (January 2016), and

Wages:

Soil Sampler (Morgan Fraughton August 16 - 27)

Soil Sampler (Travis Farmen August 20 - 27)

Line Cutter (Travis Farmen July 6, 8,9,10)

Line Cutter (Morgan Fraughton July 6, 8,9,10)

Prospector

Prospector

Field Expenses (per day)

Field Expenses (Travis Farmen)

Field Expenses (Morgan Fraughton)

EQUIPMENT RENTAL (per unit, per day)

ATV 1

ATV 2

Truck

Truck Trailer

ATV Tub Trailer

Line Cutting Kit 1

Line Cutting Kit 1

Assay Costs

Soil Samples - 36 element ICP-MS

Rock Samples - 36 element ICP-MS

Report Writing

Report Writing

Total 2015 JPL Costs

Total daily field allowance

Total truck costs

Total wages paid

Total light equipment rental costs

Total assay/analyses costs

nd Line Cutting Program (July 6, 8,9,10)

	rate	units	total
per day	\$350.00	12	\$4,200.00
per day	\$350.00	8	\$2,800.00
per day	\$350.00	4	\$1,400.00
per day	\$350.00	4	\$1,400.00
per day	\$350.00	9	\$3,150.00
per day	\$350.00	9	\$3,150.00
per day	\$100.00	21	\$2,100.00
per day	\$100.00	25	\$2,500.00
per day	\$40.00	25	\$1,000.00
per day	\$40.00	21	\$840.00
per day	\$60.00	25	\$1,500.00
per day	\$16.00	25	\$400.00
per day	\$10.00	25	\$250.00
per day	\$50.00	4	\$200.00
per day	\$50.00	4	\$200.00
Total	\$23.37	605	\$14,137.05
Total	\$28.84	39	\$1,124.71
Total			\$4,000.00
			\$44,351.76

\$4,600.00
\$1,500.00
\$16,100.00
\$2,890.00
\$15,261.76

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Dawson	YE79887	JPL	3	Spere Exploration Inc. - 100%	7/25/2012
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Dawson	YE79889	JPL	5	Spere Exploration Inc. - 100%	7/25/2012
Dawson	YE79890	JPL	6	Spere Exploration Inc. - 100%	7/25/2012
Dawson	YE79891	JPL	7	Spere Exploration Inc. - 100%	7/25/2012
Dawson	YE79892	JPL	8	Spere Exploration Inc. - 100%	7/25/2012
Dawson	YE79893	JPL	9	Spere Exploration Inc. - 100%	7/25/2012
Dawson	YE79894	JPL	10	Spere Exploration Inc. - 100%	7/25/2012
Dawson	YE79895	JPL	11	Spere Exploration Inc. - 100%	7/25/2012
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Client: Spere Exploration Inc.
Box 1381
Dawson City YT Y0B 1G0 CANADA

Submitted By: Morgan Fraughton
Receiving Lab: Canada-Whitehorse
Received: October 16, 2015
Report Date: December 22, 2015
Page: 1 of 12

CERTIFICATE OF ANALYSIS

WHI15000229.1

CLIENT JOB INFORMATION

Project: JPL
Shipment ID:
P.O. Number
Number of Samples: 320

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

Invoice To: Spere Exploration Inc.
Box 1381
Dawson City YT Y0B 1G0
CANADA

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	320	Dry at 60C			WHI
SS80	320	Dry at 60C sieve 100g to -80 mesh			WHI
AQ201	320	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
SHP01	320	Per sample shipping charges for branch shipments			WHI

ADDITIONAL COMMENTS



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



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Project: JPL
Report Date: December 22, 2015

Page: 2 of 12

Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI15000229.1

Method Analyte	AQ201																				
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Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
1502399	Soil	1.2	20.5	58.8	97	<0.1	11.9	4.5	389	2.25	4.2	3.9	13.7	17	0.1	0.6	0.3	21	0.20	0.045	34
1502395	Soil	2.4	22.2	26.6	98	<0.1	22.2	5.6	329	1.90	5.5	2.6	19.4	25	0.2	0.6	0.2	20	0.26	0.044	72
1502388	Soil	12.8	73.5	33.1	204	1.0	188.3	18.1	313	4.02	64.6	8.0	9.9	46	1.1	4.6	0.4	49	0.28	0.076	25
1502397	Soil	1.4	14.8	12.5	46	<0.1	15.8	5.2	147	1.65	6.1	3.0	8.3	22	0.1	0.7	0.2	34	0.18	0.031	30
1502394	Soil	0.6	10.1	19.0	28	<0.1	8.5	3.7	120	1.48	3.8	5.3	8.4	17	<0.1	0.5	0.2	31	0.11	0.009	38
1502396	Soil	1.0	31.6	29.2	57	0.1	14.3	5.7	238	1.78	5.3	5.0	10.4	23	0.1	0.6	0.3	29	0.30	0.031	31
1502389	Soil	4.9	48.1	28.1	120	0.3	48.8	11.6	265	3.32	19.6	5.8	9.4	68	0.5	1.6	0.3	61	0.32	0.063	33
1502390	Soil	0.6	15.4	15.7	41	<0.1	12.7	6.1	209	1.78	5.8	2.4	9.9	23	<0.1	0.6	0.2	35	0.20	0.018	32
1502398	Soil	0.7	20.9	17.8	45	<0.1	16.7	5.7	246	1.95	7.4	3.7	9.0	28	<0.1	0.7	0.2	35	0.24	0.032	27
1502400	Soil	0.5	21.7	21.6	43	<0.1	12.6	5.2	195	1.91	5.3	3.4	14.3	21	<0.1	0.6	0.3	32	0.17	0.014	49
1502481	Soil	0.7	25.7	17.9	51	<0.1	19.7	6.8	258	2.23	7.7	3.2	11.0	26	<0.1	1.0	0.2	38	0.33	0.030	31
1502479	Soil	0.7	19.7	13.4	43	<0.1	15.8	6.5	220	2.12	6.8	3.0	8.4	26	<0.1	0.6	0.2	37	0.32	0.059	29
1502489	Soil	0.6	19.6	32.6	40	<0.1	6.4	3.7	64	1.45	1.9	2.5	18.4	12	<0.1	0.3	0.3	15	0.13	0.019	39
1502483	Soil	0.9	23.0	10.7	51	<0.1	20.3	9.8	441	2.41	7.9	2.3	5.5	31	<0.1	0.6	0.2	55	0.41	0.038	20
1502487	Soil	0.7	25.4	13.0	49	0.1	20.6	9.1	494	2.34	7.8	3.7	5.1	39	0.2	0.6	0.2	47	0.53	0.045	23
1502486	Soil	1.0	27.1	14.9	52	<0.1	20.8	8.6	337	2.25	8.0	3.5	8.1	29	0.1	0.8	0.2	47	0.38	0.031	28
1502482	Soil	1.0	33.9	19.8	55	0.1	24.4	9.5	475	2.26	9.9	5.9	7.2	36	<0.1	1.0	0.2	47	0.50	0.042	27
1502480	Soil	0.9	31.3	14.9	59	0.1	23.4	9.6	374	2.33	9.7	14.9	7.4	32	0.1	0.8	0.2	46	0.42	0.046	23
1502485	Soil	0.9	36.6	16.1	65	0.1	28.1	10.3	409	2.67	11.0	4.8	5.4	41	0.1	1.0	0.2	56	0.59	0.051	20
1502488	Soil	0.7	18.1	13.4	37	<0.1	11.8	5.5	189	1.61	4.7	3.1	10.3	23	<0.1	0.5	0.1	28	0.30	0.030	35
1502386	Soil	1.1	27.9	21.5	57	0.1	22.7	7.6	255	2.22	8.4	2.6	8.0	37	0.1	0.9	0.2	44	0.36	0.047	26
1502383	Soil	0.9	16.5	15.4	48	0.1	13.4	6.9	404	1.70	6.2	6.1	7.3	33	0.2	0.5	0.2	34	0.38	0.048	29
1502393	Soil	0.8	26.0	11.2	46	<0.1	17.4	7.0	268	2.01	7.5	36.4	6.9	29	0.1	0.7	0.2	42	0.31	0.029	24
1502387	Soil	0.8	21.1	12.2	49	<0.1	16.5	6.0	213	1.89	7.9	2.6	6.9	28	0.2	0.8	0.2	40	0.32	0.045	22
1502384	Soil	0.8	12.4	17.6	45	<0.1	11.9	6.0	413	1.60	4.6	2.3	7.6	26	0.2	0.4	0.2	28	0.34	0.050	28
1502382	Soil	0.8	28.3	19.5	68	<0.1	20.8	8.6	382	2.18	8.5	7.3	6.0	39	0.2	0.8	0.2	44	0.55	0.039	21
1502392	Soil	0.9	9.0	12.8	44	<0.1	10.0	7.1	476	1.72	3.8	1.8	15.1	18	0.2	0.3	<0.1	14	0.25	0.056	47
1502385	Soil	0.9	24.7	12.9	54	<0.1	21.0	6.0	185	2.01	6.4	4.5	8.4	31	<0.1	0.7	0.2	38	0.34	0.035	28
1502391	Soil	0.6	15.0	16.6	40	<0.1	12.5	4.8	198	1.48	5.0	2.6	11.4	23	0.1	0.5	0.2	29	0.27	0.036	33
1502381	Soil	0.8	18.2	22.0	59	0.1	14.3	9.4	487	2.07	5.2	12.6	6.8	35	0.3	0.5	0.2	31	0.41	0.063	31



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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ201		AQ201		AQ201		AQ201		AQ201		AQ201		AQ201		AQ201		AQ201	
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te		
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm		
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2			
1502399	Soil	14	0.18	816	0.008	<1	0.97	0.006	0.12	<0.1	0.08	5.3	<0.1	<0.05	3	<0.5	<0.2		
1502395	Soil	34	0.40	944	0.004	<1	1.27	0.006	0.18	0.1	0.03	4.7	0.1	<0.05	4	<0.5	<0.2		
1502388	Soil	45	0.33	842	0.008	<1	1.72	0.011	0.19	0.3	0.20	7.9	0.2	<0.05	5	6.1	<0.2		
1502397	Soil	21	0.39	536	0.038	<1	1.21	0.009	0.10	0.1	0.02	2.9	<0.1	<0.05	3	0.9	<0.2		
1502394	Soil	16	0.28	399	0.026	<1	1.19	0.005	0.06	0.1	<0.01	2.5	<0.1	<0.05	4	<0.5	<0.2		
1502396	Soil	17	0.29	596	0.024	<1	1.27	0.010	0.14	<0.1	0.02	3.8	0.1	<0.05	4	<0.5	<0.2		
1502389	Soil	50	0.79	670	0.028	<1	2.16	0.013	0.13	0.2	0.05	6.5	0.1	<0.05	6	3.2	<0.2		
1502390	Soil	20	0.41	407	0.044	<1	1.25	0.009	0.09	0.1	0.02	3.7	<0.1	<0.05	4	<0.5	<0.2		
1502398	Soil	22	0.35	924	0.033	<1	1.27	0.012	0.10	0.1	0.02	4.0	<0.1	<0.05	4	0.5	<0.2		
1502400	Soil	21	0.43	554	0.048	<1	1.33	0.008	0.12	0.1	0.02	5.0	0.1	<0.05	4	<0.5	<0.2		
1502481	Soil	22	0.35	492	0.033	1	1.33	0.015	0.09	0.2	0.03	4.3	<0.1	<0.05	4	<0.5	<0.2		
1502479	Soil	23	0.34	660	0.033	<1	1.13	0.013	0.10	0.2	0.04	3.9	<0.1	<0.05	3	0.7	<0.2		
1502489	Soil	8	0.16	399	0.005	<1	1.17	0.007	0.14	<0.1	0.02	4.2	<0.1	<0.05	3	<0.5	<0.2		
1502483	Soil	28	0.51	455	0.063	2	1.80	0.018	0.08	0.2	0.01	4.5	<0.1	<0.05	5	<0.5	<0.2		
1502487	Soil	26	0.45	505	0.045	1	1.68	0.016	0.08	0.2	0.03	4.5	<0.1	<0.05	5	<0.5	<0.2		
1502486	Soil	26	0.46	473	0.045	<1	1.61	0.016	0.10	0.2	0.03	4.2	<0.1	<0.05	5	<0.5	<0.2		
1502482	Soil	26	0.45	665	0.044	1	1.58	0.018	0.09	0.2	0.04	4.9	<0.1	<0.05	5	<0.5	<0.2		
1502480	Soil	26	0.44	486	0.048	<1	1.43	0.019	0.09	0.2	0.04	4.4	<0.1	<0.05	4	0.7	<0.2		
1502485	Soil	29	0.50	508	0.053	2	1.53	0.021	0.09	0.2	0.05	4.9	<0.1	<0.05	5	0.6	<0.2		
1502488	Soil	15	0.32	411	0.025	<1	1.37	0.011	0.10	<0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2		
1502386	Soil	26	0.40	539	0.057	1	1.41	0.018	0.10	0.1	0.02	4.4	<0.1	<0.05	4	<0.5	<0.2		
1502383	Soil	20	0.32	727	0.031	<1	1.24	0.010	0.11	0.2	0.03	3.5	<0.1	<0.05	4	0.6	<0.2		
1502393	Soil	25	0.41	496	0.051	1	1.38	0.014	0.08	0.1	0.03	4.9	<0.1	<0.05	4	<0.5	<0.2		
1502387	Soil	22	0.33	396	0.051	<1	1.12	0.013	0.07	0.1	0.03	3.6	<0.1	<0.05	4	0.6	<0.2		
1502384	Soil	17	0.29	607	0.027	1	1.22	0.009	0.14	0.1	0.02	3.0	<0.1	<0.05	4	<0.5	<0.2		
1502382	Soil	24	0.43	597	0.038	2	1.52	0.015	0.09	0.2	0.05	4.7	<0.1	<0.05	5	1.1	<0.2		
1502392	Soil	9	0.18	510	0.012	<1	0.73	0.007	0.18	<0.1	<0.01	2.3	<0.1	<0.05	3	0.6	<0.2		
1502385	Soil	24	0.39	572	0.043	<1	1.42	0.013	0.11	0.2	0.04	4.6	0.1	<0.05	5	<0.5	<0.2		
1502391	Soil	17	0.28	448	0.031	<1	1.08	0.012	0.13	<0.1	0.03	3.3	<0.1	<0.05	3	<0.5	<0.2		
1502381	Soil	19	0.42	761	0.024	<1	1.38	0.011	0.11	0.1	0.03	3.5	<0.1	<0.05	4	<0.5	<0.2		



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Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1354378	Soil	0.4	46.4	16.6	68	0.2	21.0	10.0	367	2.54	5.3	6.2	5.9	41	0.1	0.5	0.2	47	0.80	0.053	23
1354373	Soil	0.6	62.6	9.9	78	<0.1	18.6	16.5	432	3.72	6.9	4.3	6.9	24	<0.1	0.6	0.2	73	0.38	0.032	21
1354371	Soil	0.7	20.2	48.3	129	0.2	8.2	11.4	902	2.33	3.1	4.0	18.7	13	0.4	0.2	0.8	6	0.26	0.075	56
1354370	Soil	0.6	62.4	4.4	45	0.1	7.5	8.2	351	2.34	4.9	1.4	9.7	17	<0.1	<0.1	0.8	7	0.86	0.071	9
1354374	Soil	0.8	101.9	10.6	80	0.1	30.7	25.8	1245	4.59	5.5	5.2	2.7	23	0.2	0.4	0.1	96	0.56	0.055	10
1354375	Soil	0.9	55.6	10.1	64	0.1	26.7	13.1	529	2.93	9.5	3.7	4.1	41	0.2	0.7	0.2	62	0.79	0.050	18
1354377	Soil	0.8	51.6	17.9	71	0.1	24.9	12.0	582	2.92	7.7	4.1	5.8	38	0.2	0.7	0.2	53	0.68	0.057	21
1354372	Soil	0.9	22.3	21.0	51	<0.1	6.8	6.1	674	2.07	4.1	1.1	18.9	16	0.3	0.2	0.4	9	0.28	0.071	50
1354376	Soil	0.7	55.5	13.5	65	0.1	27.3	13.7	568	3.15	9.1	3.4	4.6	39	0.1	0.8	0.2	62	0.76	0.047	19
1354369	Soil	4.4	15.4	13.0	51	<0.1	7.1	7.5	472	2.14	29.7	6.8	16.3	11	0.2	0.2	0.6	8	0.24	0.058	34
1354380	Soil	0.7	57.3	17.3	83	0.1	24.0	16.1	659	3.34	5.8	2.7	5.0	29	0.3	0.6	0.2	72	0.75	0.056	19
1354386	Soil	0.7	55.2	14.9	71	0.1	22.9	13.6	511	3.08	5.0	2.2	8.6	28	0.1	0.4	0.2	52	0.51	0.057	27
1354382	Soil	0.6	29.9	22.1	75	<0.1	14.8	9.7	423	2.38	4.5	4.1	8.6	37	0.2	0.5	0.2	37	0.79	0.059	30
1354383	Soil	0.8	43.7	22.4	95	0.1	72.4	20.4	464	3.84	34.1	4.2	11.1	49	0.2	0.9	0.3	59	0.78	0.055	32
1354388	Soil	0.4	86.5	7.1	84	<0.1	102.9	32.3	1406	4.98	2.7	5.2	1.5	23	0.2	0.3	<0.1	122	0.47	0.053	5
1354381	Soil	0.6	40.5	19.3	75	<0.1	22.1	12.5	520	2.63	4.7	2.1	5.7	29	0.3	0.4	0.2	52	0.67	0.066	21
1354384	Soil	0.9	31.7	25.3	60	0.1	14.7	10.0	863	2.22	2.5	1.0	11.8	34	0.2	0.3	0.3	29	0.84	0.056	31
1354379	Soil	0.6	41.6	14.7	66	0.1	22.7	10.4	406	2.62	5.4	2.7	6.1	33	0.2	0.6	0.2	54	0.75	0.054	23
1354387	Soil	0.7	65.8	18.2	76	0.1	27.2	16.6	600	3.66	5.2	5.9	5.5	27	0.2	0.4	0.2	73	0.55	0.042	18
1354385	Soil	0.8	32.0	13.5	57	<0.1	17.5	10.7	516	2.52	4.5	3.3	6.5	30	0.2	0.4	0.2	45	0.56	0.061	20
1354394	Soil	1.5	25.6	31.4	71	<0.1	7.4	5.8	237	2.28	8.9	2.5	14.8	12	<0.1	0.2	0.7	8	0.05	0.025	52
1354390	Soil	0.9	42.6	15.0	58	0.2	22.7	12.1	649	2.88	6.5	2.7	6.8	33	0.1	0.5	0.3	58	0.68	0.036	27
1354389	Soil	0.9	47.5	12.9	60	0.1	26.4	12.7	558	2.90	7.8	3.3	6.3	36	0.2	0.6	0.3	61	0.79	0.042	22
1354397	Soil	0.8	81.4	7.1	25	<0.1	6.2	6.5	727	1.92	2.7	2.6	12.1	6	<0.1	<0.1	0.6	11	0.18	0.046	7
1354368	Soil	0.9	22.2	10.8	39	<0.1	14.4	7.3	366	2.48	6.3	1.9	7.5	17	<0.1	0.4	0.3	28	0.23	0.026	12
1354392	Soil	0.8	40.5	14.7	70	0.1	29.8	15.3	684	3.11	3.0	4.2	11.3	20	<0.1	0.3	0.3	42	0.38	0.072	37
1354391	Soil	1.0	24.5	17.1	52	<0.1	18.0	7.8	386	2.47	5.9	3.9	8.6	31	<0.1	0.5	0.3	48	0.55	0.027	30
1354396	Soil	2.5	74.5	7.4	52	<0.1	8.0	12.1	613	2.69	7.7	3.3	13.3	6	0.2	0.1	1.3	7	0.08	0.037	6
1354393	Soil	1.4	23.3	30.2	44	0.2	7.0	12.1	802	2.68	2.2	1.7	21.3	14	0.3	0.1	0.7	8	0.31	0.063	60
1354395	Soil	9.6	64.4	50.0	18	0.6	1.2	1.4	23	3.65	24.3	4.9	14.5	100	<0.1	0.4	5.5	3	0.18	0.037	53



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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.01	0.05	1	0.5	0.2	
1354378	Soil	27	0.83	474	0.045	2	2.01	0.022	0.07	0.1	0.04	5.8	<0.1	<0.05	5	<0.5	<0.2	
1354373	Soil	21	1.31	285	0.023	<1	2.13	0.010	0.05	0.1	0.02	7.8	<0.1	<0.05	6	<0.5	<0.2	
1354371	Soil	5	0.47	216	0.001	<1	0.84	0.004	0.04	<0.1	0.02	3.6	<0.1	<0.05	3	<0.5	<0.2	
1354370	Soil	4	0.05	181	<0.001	<1	0.34	0.004	0.07	<0.1	0.02	2.9	<0.1	<0.05	1	<0.5	<0.2	
1354374	Soil	38	1.76	308	0.030	<1	2.54	0.016	0.04	<0.1	0.03	12.4	<0.1	<0.05	7	0.7	<0.2	
1354375	Soil	31	0.87	407	0.058	<1	2.02	0.025	0.06	0.1	0.04	6.4	<0.1	<0.05	5	<0.5	<0.2	
1354377	Soil	29	0.85	415	0.055	2	1.91	0.024	0.07	0.1	0.03	6.2	<0.1	<0.05	5	<0.5	<0.2	
1354372	Soil	7	0.33	265	0.002	2	0.99	0.006	0.06	<0.1	0.04	6.4	<0.1	<0.05	3	0.6	<0.2	
1354376	Soil	33	0.89	436	0.061	1	2.17	0.025	0.06	0.1	0.04	7.4	<0.1	<0.05	6	<0.5	<0.2	
1354369	Soil	5	0.18	525	<0.001	2	0.79	0.005	0.08	<0.1	0.01	3.8	<0.1	<0.05	2	<0.5	<0.2	
1354380	Soil	32	1.20	360	0.034	2	2.12	0.016	0.06	0.1	0.02	9.3	<0.1	<0.05	6	0.6	<0.2	
1354386	Soil	46	1.45	383	0.034	2	2.22	0.011	0.08	<0.1	0.02	6.5	<0.1	<0.05	6	<0.5	<0.2	
1354382	Soil	22	0.91	334	0.027	3	1.53	0.013	0.11	0.1	0.02	4.6	<0.1	<0.05	4	0.6	<0.2	
1354383	Soil	99	1.65	460	0.021	3	2.25	0.020	0.16	<0.1	0.05	10.1	0.1	<0.05	6	0.6	<0.2	
1354388	Soil	253	3.43	320	0.072	<1	3.40	0.006	0.03	<0.1	<0.01	12.6	<0.1	<0.05	9	<0.5	<0.2	
1354381	Soil	35	1.08	310	0.032	1	1.76	0.015	0.07	0.2	0.02	6.4	<0.1	<0.05	4	0.6	<0.2	
1354384	Soil	22	0.90	322	0.029	1	1.37	0.013	0.13	0.1	0.02	3.4	<0.1	<0.05	4	0.8	<0.2	
1354379	Soil	39	0.92	413	0.044	2	1.91	0.018	0.07	0.1	0.04	7.1	<0.1	<0.05	5	0.6	<0.2	
1354387	Soil	36	1.07	355	0.033	<1	1.98	0.012	0.05	0.1	0.05	11.0	<0.1	<0.05	5	0.6	<0.2	
1354385	Soil	27	0.78	312	0.036	2	1.50	0.015	0.08	0.1	0.02	4.6	<0.1	<0.05	4	0.6	<0.2	
1354394	Soil	7	0.42	318	0.002	<1	1.14	0.004	0.05	<0.1	0.02	2.3	<0.1	<0.05	3	<0.5	<0.2	
1354390	Soil	31	0.78	529	0.037	1	2.09	0.016	0.06	0.1	0.03	7.9	<0.1	<0.05	5	0.5	<0.2	
1354389	Soil	33	0.91	425	0.055	2	2.10	0.022	0.06	0.1	0.04	7.5	<0.1	<0.05	5	0.7	<0.2	
1354397	Soil	10	0.20	327	<0.001	<1	0.60	0.004	0.05	<0.1	0.02	4.2	<0.1	<0.05	2	<0.5	<0.2	
1354368	Soil	19	0.25	342	0.015	1	1.21	0.010	0.08	<0.1	0.02	3.6	<0.1	<0.05	3	<0.5	<0.2	
1354392	Soil	67	1.39	268	0.014	<1	1.97	0.006	0.05	<0.1	0.03	7.3	<0.1	<0.05	5	0.7	<0.2	
1354391	Soil	26	0.45	534	0.040	<1	1.91	0.016	0.07	0.1	0.02	5.2	0.1	<0.05	5	<0.5	<0.2	
1354396	Soil	4	0.06	394	<0.001	<1	0.53	0.004	0.07	<0.1	0.02	3.0	<0.1	<0.05	1	1.0	<0.2	
1354393	Soil	5	0.32	381	0.002	1	0.96	0.005	0.05	<0.1	0.10	4.6	<0.1	<0.05	3	<0.5	<0.2	
1354395	Soil	2	0.04	310	<0.001	<1	0.51	0.013	0.33	<0.1	0.04	1.4	<0.1	0.59	3	2.4	<0.2	



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Project: JPL
Report Date: December 22, 2015

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Method Analyte	AQ201																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
1354360	Soil	0.8	8.2	22.3	17	<0.1	6.4	1.9	59	0.88	2.6	<0.5	5.8	11	<0.1	0.3	0.2	28	0.08	0.017	25
1354363	Soil	0.7	18.6	16.2	36	<0.1	13.5	6.5	174	1.90	5.8	2.8	11.5	27	<0.1	0.5	0.2	27	0.17	0.029	20
1354361	Soil	0.9	16.4	53.8	31	0.1	10.8	4.4	201	1.39	2.7	1.3	3.6	17	0.3	0.3	0.3	33	0.17	0.051	34
1354359	Soil	0.7	7.8	15.5	20	<0.1	9.2	2.6	66	1.17	3.3	1.2	7.4	9	<0.1	0.4	0.2	22	0.05	0.013	26
1354357	Soil	0.5	5.4	37.9	11	<0.1	2.3	0.8	42	0.68	1.8	<0.5	18.5	15	<0.1	0.3	0.2	5	0.07	0.006	61
1354358	Soil	0.7	5.1	12.4	13	<0.1	5.6	1.7	49	0.89	2.3	<0.5	9.3	5	<0.1	0.3	0.2	19	0.03	0.009	18
1354196	Soil	1.3	446.9	18.5	152	0.1	13.1	12.0	353	2.93	9.2	8.2	10.3	22	0.3	0.5	1.0	31	0.18	0.020	19
1354191	Soil	0.7	6.7	23.4	33	<0.1	9.3	3.1	179	1.45	4.0	2.8	7.8	14	<0.1	0.3	0.2	37	0.13	0.012	49
1354200	Soil	0.8	959.1	6.0	228	<0.1	30.2	29.3	600	5.41	5.2	2.1	1.6	17	0.8	0.4	0.3	116	0.28	0.028	6
1354195	Soil	1.3	416.7	24.2	121	0.4	13.3	11.3	444	3.38	11.6	10.0	13.9	32	0.4	1.0	1.5	28	0.48	0.036	20
1354353	Soil	2.2	360.6	26.3	118	0.3	13.0	7.4	479	2.87	7.9	10.6	11.8	30	0.2	0.7	1.1	26	0.21	0.030	31
1354197	Soil	1.1	263.0	14.5	113	0.1	22.4	11.8	473	3.38	8.9	5.2	4.7	36	0.1	0.6	0.3	59	0.46	0.031	18
1354192	Soil	0.7	15.5	16.7	37	<0.1	15.2	6.1	241	1.92	6.4	1.8	6.2	18	<0.1	0.6	0.2	38	0.17	0.019	22
1354193	Soil	0.6	145.6	12.0	411	<0.1	27.1	14.2	528	3.95	4.7	1.1	4.2	38	0.3	0.5	0.1	80	0.52	0.043	20
1354199	Soil	0.8	122.8	10.6	123	<0.1	38.3	23.6	923	4.71	8.3	8.4	3.1	35	0.3	0.6	0.7	88	0.88	0.056	12
1354194	Soil	4.0	205.1	27.0	171	0.7	9.1	8.0	323	4.96	9.2	18.4	3.3	49	0.5	0.4	1.7	23	0.33	0.056	9
1354190	Soil	0.6	17.8	18.1	36	<0.1	12.7	4.8	155	1.58	6.1	0.9	10.1	13	<0.1	0.6	0.2	36	0.11	0.009	38
1354362	Soil	0.8	10.3	17.9	31	<0.1	9.6	4.2	144	1.59	4.9	<0.5	8.9	13	<0.1	0.5	0.2	31	0.10	0.016	25
1354352	Soil	1.1	95.0	21.2	102	0.1	16.9	8.6	360	2.77	8.9	2.9	5.2	22	0.1	0.6	0.5	49	0.25	0.020	18
1354354	Soil	2.2	1138.9	457.1	587	1.1	12.2	19.3	1554	3.61	4.5	26.3	9.0	32	3.7	0.6	0.6	21	0.23	0.063	19
1354198	Soil	1.0	790.2	12.2	160	0.3	12.3	11.6	409	2.99	10.0	23.0	8.2	22	0.6	3.1	0.6	23	0.19	0.022	24
1354185	Soil	0.8	7.1	10.6	27	<0.1	10.4	4.0	148	1.61	5.2	<0.5	3.6	15	<0.1	0.5	0.1	42	0.13	0.012	14
1354351	Soil	1.3	244.5	11.0	113	<0.1	13.5	10.6	442	3.17	9.8	<0.5	3.7	16	0.2	0.5	0.5	34	0.18	0.020	11
1354355	Soil	1.0	6.7	37.1	21	0.2	2.7	1.4	83	1.34	2.8	2.2	4.0	15	<0.1	0.4	0.3	25	0.06	0.018	16
1354184	Soil	0.8	11.2	27.3	29	<0.1	10.0	4.4	190	1.45	3.8	<0.5	6.5	15	<0.1	0.4	0.2	31	0.13	0.024	22
1354186	Soil	0.5	15.7	18.8	38	<0.1	15.1	5.4	152	1.95	6.9	16.6	6.4	15	<0.1	0.6	0.1	40	0.14	0.013	27
1354188	Soil	0.6	8.5	23.2	23	<0.1	8.7	2.8	104	1.26	3.5	<0.5	6.6	9	<0.1	0.4	0.2	30	0.07	0.010	26
1354356	Soil	0.6	6.1	12.7	31	<0.1	8.0	3.8	173	1.56	3.3	0.7	6.5	18	<0.1	0.3	0.2	35	0.20	0.016	25
1354187	Soil	0.5	7.5	26.2	25	<0.1	8.9	5.2	194	1.48	3.0	<0.5	7.4	12	0.1	0.3	0.2	35	0.10	0.012	28
1354189	Soil	0.9	9.3	17.3	40	<0.1	12.2	4.7	178	2.19	7.0	<0.5	3.4	17	0.1	0.6	0.2	52	0.14	0.019	13



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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
1354360	Soil	13	0.11	465	0.027	<1	0.77	0.006	0.08	0.1	0.01	1.6	<0.1	<0.05	3	<0.5	<0.2	
1354363	Soil	17	0.25	992	0.023	<1	0.97	0.010	0.08	<0.1	0.04	4.0	<0.1	<0.05	2	<0.5	<0.2	
1354361	Soil	20	0.21	882	0.019	<1	1.45	0.009	0.18	0.1	0.02	2.4	0.1	<0.05	5	<0.5	<0.2	
1354359	Soil	18	0.18	414	0.018	<1	0.77	0.004	0.10	0.1	0.02	1.7	<0.1	<0.05	2	<0.5	<0.2	
1354357	Soil	4	0.07	1912	0.002	<1	0.44	0.003	0.11	<0.1	<0.01	1.2	<0.1	0.06	1	0.6	<0.2	
1354358	Soil	10	0.10	200	0.012	<1	0.58	0.004	0.09	<0.1	<0.01	1.0	<0.1	<0.05	2	<0.5	<0.2	
1354196	Soil	17	0.32	444	0.007	<1	1.15	0.009	0.11	<0.1	0.10	5.8	<0.1	<0.05	3	<0.5	<0.2	
1354191	Soil	19	0.25	427	0.032	<1	1.07	0.005	0.10	<0.1	<0.01	2.0	<0.1	<0.05	4	<0.5	<0.2	
1354200	Soil	53	2.02	195	0.058	1	2.97	0.006	0.04	<0.1	0.01	10.5	0.1	<0.05	8	0.9	<0.2	
1354195	Soil	17	0.30	416	0.018	<1	0.99	0.017	0.16	0.1	0.20	4.9	0.1	0.19	3	1.0	<0.2	
1354353	Soil	19	0.62	548	0.020	<1	1.48	0.010	0.12	<0.1	0.33	5.2	<0.1	0.08	4	1.3	<0.2	
1354197	Soil	28	0.65	506	0.043	2	1.68	0.019	0.07	0.2	0.06	7.4	<0.1	<0.05	5	<0.5	<0.2	
1354192	Soil	22	0.34	505	0.040	<1	0.91	0.008	0.07	0.2	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2	
1354193	Soil	72	1.14	330	0.081	2	2.00	0.035	0.06	<0.1	0.10	12.4	0.1	<0.05	6	<0.5	<0.2	
1354199	Soil	58	1.56	330	0.034	1	2.39	0.015	0.04	0.1	0.03	9.9	<0.1	<0.05	6	0.5	<0.2	
1354194	Soil	22	0.34	168	0.008	1	0.69	0.020	0.52	<0.1	0.43	4.2	0.2	0.86	2	1.4	<0.2	
1354190	Soil	21	0.34	583	0.035	<1	1.00	0.007	0.06	0.1	0.02	2.7	<0.1	<0.05	3	<0.5	<0.2	
1354362	Soil	17	0.22	509	0.023	<1	1.03	0.006	0.07	0.1	0.01	2.5	<0.1	<0.05	3	0.5	<0.2	
1354352	Soil	32	0.67	461	0.030	1	1.94	0.009	0.06	0.2	0.02	4.7	<0.1	0.07	5	0.9	<0.2	
1354354	Soil	21	0.36	676	0.011	<1	1.40	0.013	0.09	<0.1	1.09	5.9	0.1	0.13	3	2.9	<0.2	
1354198	Soil	13	0.21	646	0.009	<1	0.90	0.007	0.09	0.1	0.56	4.0	<0.1	0.05	2	0.6	<0.2	
1354185	Soil	19	0.29	484	0.040	<1	0.99	0.007	0.08	0.1	<0.01	1.8	<0.1	<0.05	3	0.7	<0.2	
1354351	Soil	19	0.28	373	0.017	1	1.31	0.013	0.07	0.1	0.03	5.7	<0.1	<0.05	4	0.8	<0.2	
1354355	Soil	8	0.09	274	0.011	<1	1.10	0.025	0.06	0.1	0.02	1.3	0.1	<0.05	4	0.6	<0.2	
1354184	Soil	15	0.22	500	0.029	1	0.99	0.006	0.09	0.1	0.02	1.9	<0.1	<0.05	3	<0.5	<0.2	
1354186	Soil	22	0.35	419	0.040	<1	1.00	0.008	0.05	0.1	0.01	2.3	<0.1	<0.05	3	0.6	<0.2	
1354188	Soil	15	0.18	522	0.021	<1	0.87	0.004	0.07	0.1	<0.01	1.8	<0.1	<0.05	2	<0.5	<0.2	
1354356	Soil	17	0.26	599	0.017	<1	1.08	0.007	0.10	0.1	<0.01	2.1	0.1	<0.05	4	<0.5	<0.2	
1354187	Soil	19	0.20	728	0.016	<1	1.17	0.006	0.09	<0.1	0.01	2.3	0.1	<0.05	4	<0.5	<0.2	
1354189	Soil	25	0.30	711	0.037	<1	1.60	0.006	0.09	0.2	0.01	2.4	0.1	<0.05	5	<0.5	<0.2	



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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
1502026	Soil	0.5	48.8	36.2	117	0.2	20.4	9.4	624	2.88	7.5	3.7	9.3	21	0.2	0.5	0.7	36	0.52	0.048	28
1502027	Soil	0.5	27.9	45.4	118	0.1	12.8	9.3	685	2.28	4.5	1.1	13.0	18	0.2	0.3	0.1	24	1.16	0.063	30
1502030	Soil	0.2	58.3	4.4	75	<0.1	48.7	31.8	957	5.34	<0.5	2.2	2.5	46	<0.1	0.2	<0.1	100	5.13	0.041	8
1502029	Soil	0.3	251.1	10.5	62	0.2	34.3	26.4	802	5.09	1.9	1.8	0.5	37	<0.1	0.2	<0.1	115	5.16	0.035	4
1502032	Soil	2.5	107.5	5.1	191	<0.1	14.1	19.0	3837	5.22	1.8	4.1	2.7	33	0.4	0.3	0.1	35	6.89	0.062	10
1502031	Soil	0.8	85.6	12.0	109	<0.1	28.9	27.0	1409	5.38	1.8	5.7	1.7	68	0.5	0.2	<0.1	66	7.98	0.062	7
1502024	Soil	0.9	52.3	20.5	97	0.1	31.8	15.3	648	3.78	7.0	7.2	4.3	32	0.2	0.7	0.2	77	0.65	0.051	17
1502006	Soil	0.7	43.0	21.2	68	0.1	24.0	12.3	623	3.16	6.0	2.4	7.0	22	0.2	0.5	0.2	50	0.54	0.038	24
1502012	Soil	0.9	34.7	21.1	80	0.1	22.5	10.1	367	3.00	8.9	2.5	4.9	30	0.2	0.7	0.2	57	0.50	0.049	17
1502028	Soil	0.7	35.3	37.4	88	0.3	10.3	8.5	481	2.39	10.3	6.6	10.2	24	0.1	0.3	0.3	17	2.16	0.060	9
1502021	Soil	1.0	41.6	20.0	79	0.1	26.6	13.3	723	3.31	8.5	3.4	4.6	35	0.3	0.7	0.2	66	0.75	0.046	17
1502023	Soil	1.0	44.8	26.6	109	0.1	24.3	13.7	893	3.26	9.4	2.2	4.5	31	0.4	0.8	0.3	62	0.60	0.053	17
1502022	Soil	0.8	44.0	19.0	86	0.1	23.8	11.5	583	3.10	7.8	3.0	4.8	32	0.2	0.7	0.3	61	0.63	0.038	18
1502025	Soil	0.7	47.6	16.5	89	0.1	26.9	13.8	600	3.51	9.5	3.4	4.1	33	0.2	0.7	0.2	69	0.74	0.050	16
1502002	Soil	1.7	498.6	21.8	383	0.6	37.4	29.8	3140	5.05	3.6	9.6	1.1	30	0.8	0.2	0.1	106	4.36	0.032	6
1502001	Soil	1.1	176.4	14.1	429	0.2	25.3	22.9	2088	5.57	1.5	2.4	3.0	16	1.2	0.3	0.2	49	3.32	0.072	11
1502005	Soil	0.8	18.9	10.0	53	<0.1	25.8	12.3	292	3.39	5.2	<0.5	4.1	20	<0.1	0.4	0.1	71	0.37	0.019	14
1502020	Soil	1.0	47.9	23.6	103	0.1	22.7	12.4	682	3.13	7.5	11.0	5.8	26	0.2	0.7	0.2	59	0.48	0.049	19
1502004	Soil	0.3	57.9	7.3	69	0.1	24.7	22.2	1023	4.15	1.1	3.6	0.3	31	0.2	0.3	0.1	80	6.26	0.028	2
1502003	Soil	0.9	208.4	25.7	286	0.2	29.2	21.6	1886	4.91	0.9	2.9	2.6	28	0.6	0.2	0.1	71	4.54	0.048	13
1502010	Soil	0.8	56.4	28.5	114	0.1	23.9	14.4	635	3.90	9.5	4.1	4.1	25	0.3	0.6	0.3	73	0.87	0.046	14
1502015	Soil	0.9	27.7	18.5	63	0.1	15.9	9.8	617	2.52	6.0	0.9	5.5	22	0.2	0.5	0.2	48	0.42	0.030	17
1502204	Soil	0.8	17.9	20.0	33	<0.1	7.7	4.0	358	1.46	2.2	<0.5	11.3	17	0.1	0.3	0.1	11	0.24	0.010	28
1502007	Soil	0.7	49.3	55.5	139	0.2	22.0	11.1	625	3.11	8.5	3.7	7.5	23	0.2	0.5	0.4	48	0.48	0.038	22
1502016	Soil	0.7	25.5	20.6	59	<0.1	15.0	8.0	430	2.24	5.3	0.5	8.6	22	0.2	0.4	0.2	39	0.34	0.030	25
1502014	Soil	1.0	12.5	26.9	54	<0.1	3.0	2.8	356	1.37	1.2	<0.5	20.5	11	0.4	0.1	0.2	5	0.15	0.017	29
1502201	Soil	0.8	15.5	15.5	33	0.1	5.2	3.5	380	1.02	1.6	2.4	12.8	14	0.1	0.3	0.3	5	0.33	0.012	31
1502013	Soil	0.7	40.6	25.8	87	0.2	23.7	11.0	408	3.06	8.8	2.6	4.6	30	<0.1	0.6	0.3	60	0.50	0.045	16
1502017	Soil	1.1	24.5	18.2	52	<0.1	11.8	7.4	345	2.20	3.9	2.0	7.4	15	<0.1	0.3	0.2	38	0.26	0.026	17
1502009	Soil	0.5	84.0	25.3	93	0.1	26.1	24.6	1002	4.96	8.4	6.3	2.5	16	0.2	0.5	0.2	101	0.71	0.049	9



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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
1502026	Soil	25	0.77	367	0.016	<1	1.65	0.010	0.05	0.1	0.06	6.4	<0.1	<0.05	5	0.6	<0.2	
1502027	Soil	13	0.55	208	0.007	1	1.27	0.007	0.04	<0.1	0.05	5.0	<0.1	<0.05	3	<0.5	<0.2	
1502030	Soil	73	2.62	122	0.005	<1	2.85	0.015	0.02	<0.1	0.03	21.0	<0.1	<0.05	6	<0.5	<0.2	
1502029	Soil	43	2.48	113	0.002	<1	2.98	0.007	0.02	<0.1	0.01	19.8	<0.1	<0.05	8	<0.5	<0.2	
1502032	Soil	15	1.05	391	0.001	<1	1.62	0.007	0.02	<0.1	0.03	8.0	<0.1	<0.05	5	<0.5	<0.2	
1502031	Soil	26	1.08	159	0.002	<1	1.48	0.011	0.03	<0.1	0.02	19.1	<0.1	<0.05	4	0.5	<0.2	
1502024	Soil	44	1.09	352	0.034	1	2.29	0.020	0.06	0.1	0.04	9.9	<0.1	<0.05	7	0.6	<0.2	
1502006	Soil	27	0.72	296	0.023	<1	1.59	0.013	0.04	0.1	0.05	7.3	<0.1	<0.05	5	<0.5	<0.2	
1502012	Soil	28	0.61	341	0.042	2	1.59	0.016	0.05	0.2	0.03	6.2	<0.1	<0.05	5	<0.5	<0.2	
1502028	Soil	13	0.37	235	0.001	<1	0.86	0.007	0.05	<0.1	0.04	5.3	<0.1	<0.05	2	<0.5	<0.2	
1502021	Soil	32	0.72	377	0.046	1	1.97	0.015	0.05	0.2	0.05	6.9	<0.1	<0.05	5	<0.5	<0.2	
1502023	Soil	29	0.80	418	0.044	<1	1.83	0.016	0.05	0.1	0.04	7.0	<0.1	<0.05	6	0.7	<0.2	
1502022	Soil	29	0.75	399	0.048	<1	2.02	0.017	0.05	0.1	0.04	7.7	<0.1	<0.05	5	0.6	<0.2	
1502025	Soil	36	0.98	361	0.041	<1	1.99	0.021	0.06	0.1	0.05	7.9	<0.1	<0.05	6	<0.5	<0.2	
1502002	Soil	90	3.07	265	0.004	<1	3.05	0.003	0.01	<0.1	0.10	17.6	<0.1	<0.05	7	1.1	<0.2	
1502001	Soil	26	1.34	445	0.002	<1	2.10	0.008	0.03	<0.1	0.06	11.4	<0.1	<0.05	5	<0.5	<0.2	
1502005	Soil	53	0.82	295	0.031	<1	2.36	0.011	0.05	<0.1	0.02	6.5	<0.1	<0.05	7	<0.5	<0.2	
1502020	Soil	31	0.79	338	0.039	<1	1.78	0.013	0.06	0.2	0.04	7.3	<0.1	<0.05	5	0.5	<0.2	
1502004	Soil	27	1.74	172	0.002	<1	2.41	0.006	0.01	<0.1	0.02	14.6	<0.1	<0.05	6	<0.5	<0.2	
1502003	Soil	40	2.47	268	0.002	<1	3.15	0.006	0.02	<0.1	0.04	13.3	<0.1	<0.05	8	<0.5	<0.2	
1502010	Soil	30	0.92	379	0.029	<1	1.96	0.014	0.04	0.1	0.06	9.6	<0.1	<0.05	5	0.7	<0.2	
1502015	Soil	25	0.44	374	0.037	1	1.44	0.013	0.06	0.2	0.01	4.6	<0.1	<0.05	4	<0.5	<0.2	
1502204	Soil	7	0.10	857	0.002	<1	0.67	0.005	0.08	<0.1	0.02	4.0	<0.1	<0.05	2	<0.5	<0.2	
1502007	Soil	26	0.56	348	0.028	<1	1.55	0.011	0.04	0.1	0.06	6.0	<0.1	<0.05	4	<0.5	<0.2	
1502016	Soil	20	0.40	460	0.028	1	1.26	0.010	0.08	0.1	0.02	4.0	<0.1	<0.05	4	<0.5	<0.2	
1502014	Soil	3	0.10	670	0.002	<1	0.43	0.005	0.07	<0.1	<0.01	3.2	<0.1	<0.05	1	<0.5	<0.2	
1502201	Soil	4	0.06	901	<0.001	<1	0.54	0.005	0.07	<0.1	0.04	2.8	<0.1	<0.05	1	<0.5	<0.2	
1502013	Soil	30	0.59	366	0.039	<1	1.58	0.013	0.05	0.2	0.05	6.3	0.1	<0.05	5	0.8	<0.2	
1502017	Soil	19	0.34	339	0.018	<1	1.18	0.008	0.06	<0.1	0.02	3.9	<0.1	<0.05	3	<0.5	<0.2	
1502009	Soil	31	1.70	238	0.018	<1	2.48	0.008	0.04	<0.1	0.06	14.2	<0.1	<0.05	7	0.9	<0.2	



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Method Analyte	Unit	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1502149	Soil	0.8	24.0	17.2	43	<0.1	18.1	6.3	251	2.13	6.5	2.4	10.5	26	<0.1	0.5	0.2	39	0.38	0.020	29
1502144	Soil	0.6	16.4	26.5	43	<0.1	8.0	5.3	533	1.64	1.5	<0.5	19.5	16	0.1	0.3	0.2	7	0.19	0.033	43
1502018	Soil	1.0	28.0	17.4	72	<0.1	16.2	10.6	428	2.63	4.8	1.6	5.4	20	0.1	0.3	0.2	49	0.41	0.030	14
1502019	Soil	0.9	40.1	15.4	64	0.2	24.4	10.9	665	2.62	6.0	0.5	2.4	49	0.4	0.7	0.2	50	1.12	0.059	15
1502139	Soil	0.7	19.7	12.3	39	<0.1	18.0	6.1	296	2.17	7.7	2.0	8.0	29	<0.1	0.6	0.2	42	0.38	0.034	25
1502202	Soil	0.5	15.5	18.0	28	<0.1	4.4	3.3	244	1.01	1.7	1.6	15.3	9	<0.1	0.2	0.2	6	0.11	0.013	47
1502008	Soil	0.9	32.6	18.1	118	<0.1	12.2	6.4	1243	3.57	6.6	9.5	4.7	19	0.4	0.4	0.3	24	0.57	0.093	18
1502011	Soil	1.0	42.3	22.7	83	0.1	24.5	12.1	518	3.15	9.4	3.2	4.6	31	0.2	0.7	0.3	62	0.80	0.044	16
1502142	Soil	1.1	31.3	15.7	56	<0.1	24.1	9.9	355	2.47	9.7	2.0	7.4	30	<0.1	0.8	0.2	46	0.39	0.037	23
1502147	Soil	11.4	48.5	33.1	175	0.3	46.4	9.7	116	3.38	28.5	3.4	10.6	47	0.6	3.2	0.4	43	0.11	0.061	31
1502143	Soil	0.6	19.2	17.0	43	<0.1	11.9	6.2	204	1.76	5.2	0.5	10.4	20	<0.1	0.4	0.2	28	0.26	0.022	32
1502150	Soil	0.9	17.7	15.2	48	<0.1	14.3	6.7	233	2.00	6.3	1.7	13.5	20	<0.1	0.5	0.2	33	0.21	0.022	36
1502145	Soil	0.7	16.5	16.0	39	<0.1	12.2	3.7	169	1.49	3.8	3.4	12.9	21	<0.1	0.3	0.2	17	0.22	0.028	38
1502146	Soil	6.8	37.8	26.4	108	0.1	31.9	6.4	100	2.19	17.3	1.6	11.0	62	0.4	1.6	0.3	40	0.13	0.057	36
1502141	Soil	1.5	35.8	25.0	74	<0.1	27.9	12.8	528	2.86	12.0	2.5	9.3	30	0.2	0.9	0.3	52	0.37	0.042	26
1502135	Soil	0.8	10.3	21.3	40	<0.1	4.8	2.7	214	1.30	6.6	<0.5	17.7	23	<0.1	0.4	0.1	6	0.14	0.024	56
1502207	Soil	0.5	17.1	23.2	23	<0.1	9.0	3.3	153	1.19	4.1	3.1	16.6	24	<0.1	0.4	0.2	16	0.27	0.010	38
1502206	Soil	0.7	12.8	14.5	36	<0.1	12.7	5.2	166	1.79	6.0	0.7	7.6	20	<0.1	0.4	0.1	34	0.24	0.013	24
1502208	Soil	0.8	18.2	20.6	41	<0.1	8.5	5.1	332	1.54	2.9	<0.5	20.0	20	<0.1	0.4	0.3	10	0.32	0.039	43
1502138	Soil	0.8	18.2	23.3	52	0.1	12.1	6.8	395	1.88	4.5	<0.5	22.0	28	0.2	0.5	0.2	17	0.53	0.053	62
1502203	Soil	1.2	31.4	30.1	362	0.3	11.0	3.7	189	1.42	3.8	7.4	10.0	14	0.3	0.3	0.4	13	0.16	0.009	35
1502205	Soil	0.6	21.0	13.4	34	<0.1	13.0	4.6	165	1.64	5.4	1.7	9.1	23	<0.1	0.5	0.2	32	0.32	0.018	23
1502137	Soil	1.2	28.3	15.2	52	<0.1	21.8	8.0	296	2.18	8.1	3.0	7.9	33	<0.1	0.8	0.2	43	0.42	0.039	25
1502140	Soil	1.0	24.4	23.4	53	0.1	20.0	8.2	321	2.17	7.7	2.4	11.8	30	<0.1	0.7	0.2	36	0.37	0.058	36
1502136	Soil	0.9	26.9	13.8	49	<0.1	19.4	7.2	248	2.27	8.8	5.7	7.8	24	<0.1	0.7	0.2	42	0.35	0.036	24
1502148	Soil	1.4	32.4	20.8	64	0.1	26.3	11.4	532	2.51	9.7	7.9	5.5	30	0.3	0.9	0.2	53	0.46	0.048	18
1502216	Soil	0.6	14.0	25.5	63	<0.1	6.5	5.9	477	2.16	0.9	2.5	20.2	17	0.2	0.1	0.2	9	0.30	0.078	67
1502214	Soil	1.3	22.9	32.3	46	0.1	17.9	6.9	399	1.93	6.5	5.5	7.7	26	0.2	0.5	0.2	38	0.47	0.042	28
1502213	Soil	1.2	33.9	15.8	67	0.1	24.7	10.5	447	2.65	10.0	3.5	6.0	32	0.2	0.8	0.2	51	0.62	0.042	20
1502209	Soil	0.9	12.3	31.0	28	0.1	5.2	2.9	397	0.98	1.9	1.8	23.5	15	0.2	0.2	0.2	11	0.20	0.022	60

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		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
1502149	Soil	23	0.32	645	0.030	<1	1.33	0.012	0.12	<0.1	0.03	4.6	0.1	<0.05	4	<0.5	<0.2	
1502144	Soil	5	0.08	828	0.003	<1	0.57	0.005	0.12	<0.1	0.01	3.8	0.1	<0.05	2	0.7	<0.2	
1502018	Soil	26	0.57	232	0.025	<1	1.58	0.010	0.05	0.1	0.02	5.5	<0.1	<0.05	4	<0.5	<0.2	
1502019	Soil	27	0.51	468	0.029	2	1.53	0.013	0.03	0.1	0.04	5.0	<0.1	<0.05	4	<0.5	<0.2	
1502139	Soil	25	0.38	498	0.038	<1	1.18	0.014	0.08	0.1	0.04	3.9	<0.1	<0.05	3	<0.5	<0.2	
1502202	Soil	5	0.12	505	0.001	<1	0.57	0.002	0.05	<0.1	0.03	3.3	<0.1	<0.05	1	<0.5	<0.2	
1502008	Soil	10	0.78	312	0.011	<1	1.55	0.008	0.05	0.1	0.03	9.0	<0.1	<0.05	5	<0.5	<0.2	
1502011	Soil	30	0.76	337	0.039	1	1.68	0.015	0.06	0.2	0.04	7.6	<0.1	<0.05	5	<0.5	<0.2	
1502142	Soil	27	0.42	486	0.048	1	1.38	0.014	0.10	0.2	0.04	5.2	0.1	<0.05	4	<0.5	<0.2	
1502147	Soil	25	0.14	1102	0.003	<1	0.95	0.005	0.14	0.2	0.11	6.2	0.2	<0.05	3	5.5	<0.2	
1502143	Soil	17	0.29	439	0.028	<1	1.14	0.010	0.08	<0.1	0.02	3.4	<0.1	<0.05	3	<0.5	<0.2	
1502150	Soil	21	0.33	687	0.023	<1	1.40	0.009	0.09	<0.1	0.02	4.3	<0.1	<0.05	4	<0.5	<0.2	
1502145	Soil	16	0.20	861	0.011	1	0.79	0.008	0.11	<0.1	0.02	3.3	<0.1	<0.05	2	<0.5	<0.2	
1502146	Soil	24	0.23	899	0.014	<1	1.00	0.005	0.12	0.1	0.05	4.3	0.1	<0.05	3	1.9	<0.2	
1502141	Soil	35	0.49	486	0.043	<1	1.63	0.012	0.12	0.1	0.03	6.1	<0.1	<0.05	5	<0.5	<0.2	
1502135	Soil	6	0.09	589	0.003	<1	0.53	0.005	0.11	<0.1	0.01	2.9	<0.1	<0.05	1	<0.5	<0.2	
1502207	Soil	13	0.16	659	0.007	<1	0.97	0.007	0.16	<0.1	0.03	3.9	0.1	<0.05	3	<0.5	<0.2	
1502206	Soil	22	0.31	512	0.028	<1	1.20	0.008	0.08	0.1	0.02	4.0	<0.1	<0.05	4	<0.5	<0.2	
1502208	Soil	9	0.27	602	0.007	<1	1.12	0.006	0.15	<0.1	0.03	4.6	<0.1	<0.05	3	<0.5	<0.2	
1502138	Soil	13	0.32	469	0.014	<1	1.37	0.010	0.17	<0.1	0.02	4.5	<0.1	<0.05	4	<0.5	<0.2	
1502203	Soil	16	0.13	735	0.004	<1	1.07	0.006	0.09	<0.1	0.27	4.9	<0.1	<0.05	2	<0.5	<0.2	
1502205	Soil	21	0.28	620	0.023	<1	1.36	0.009	0.08	<0.1	0.02	4.9	<0.1	<0.05	3	<0.5	<0.2	
1502137	Soil	27	0.42	486	0.046	<1	1.44	0.013	0.10	0.1	0.03	4.9	<0.1	<0.05	4	0.6	<0.2	
1502140	Soil	21	0.36	508	0.035	<1	1.19	0.012	0.12	0.1	0.03	3.7	<0.1	<0.05	3	<0.5	<0.2	
1502136	Soil	24	0.41	471	0.037	1	1.32	0.014	0.07	0.2	0.04	4.4	<0.1	<0.05	4	<0.5	<0.2	
1502148	Soil	30	0.47	532	0.053	2	1.40	0.019	0.08	0.2	0.04	5.0	<0.1	<0.05	4	<0.5	<0.2	
1502216	Soil	8	0.40	929	0.003	<1	0.98	0.007	0.11	<0.1	0.01	3.4	<0.1	<0.05	3	<0.5	<0.2	
1502214	Soil	23	0.34	471	0.025	1	1.26	0.013	0.11	0.1	0.03	3.6	<0.1	<0.05	4	0.7	<0.2	
1502213	Soil	29	0.52	536	0.046	<1	1.55	0.017	0.08	0.2	0.04	5.0	<0.1	<0.05	4	<0.5	<0.2	
1502209	Soil	5	0.12	696	0.003	<1	0.60	0.005	0.12	<0.1	0.03	2.3	<0.1	<0.05	1	<0.5	<0.2	

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Project: JPL
Report Date: December 22, 2015

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CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	Au ppb	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	
1502210	Soil	1.0	21.6	27.7	43	<0.1	14.5	7.1	450	1.73	7.7	4.6	14.4	20	0.2	0.7	0.2	29	0.26	0.028	40
1502212	Soil	1.5	31.2	34.5	75	0.1	24.9	10.5	499	2.49	10.5	3.7	9.5	27	0.3	0.9	0.3	44	0.39	0.050	27
1502211	Soil	1.0	33.3	12.4	55	0.1	26.5	9.4	353	2.59	10.8	3.1	5.1	30	0.1	0.7	0.2	56	0.53	0.052	19
1502215	Soil	1.0	18.0	23.6	40	<0.1	12.1	5.4	261	1.61	4.5	1.9	9.8	17	<0.1	0.4	0.2	30	0.30	0.032	30
1354275	Soil	0.7	49.6	13.1	72	0.1	33.4	14.0	502	3.32	9.0	2.4	6.3	37	0.1	0.6	0.2	63	1.38	0.054	21
1354270	Soil	1.8	30.1	16.0	51	0.2	3.5	5.5	540	1.60	2.8	0.7	15.1	27	0.2	<0.1	0.8	<2	1.77	0.050	16
1354271	Soil	1.6	35.6	17.7	68	<0.1	16.8	7.6	289	2.75	7.8	1.5	14.0	14	<0.1	0.4	0.3	32	0.28	0.033	44
1354276	Soil	0.7	30.9	11.9	62	0.2	38.3	11.2	439	2.81	10.3	3.8	3.5	31	0.2	0.7	0.2	58	0.90	0.052	16
1354272	Soil	0.6	71.7	12.3	69	0.1	26.1	18.1	737	4.30	6.7	2.9	3.9	26	<0.1	0.4	0.2	91	2.14	0.044	16
1354273	Soil	0.5	71.3	8.5	64	0.1	27.8	19.2	742	4.13	4.4	8.0	2.5	32	0.1	0.4	0.1	99	1.21	0.031	13
1354292	Soil	0.7	29.8	9.0	57	0.1	30.7	10.5	382	2.44	9.8	2.1	2.8	40	0.3	0.8	0.2	53	1.04	0.073	15
1354283	Soil	0.8	22.1	18.9	55	<0.1	15.7	6.2	452	1.94	3.8	2.5	16.3	21	0.1	0.3	0.2	24	0.36	0.065	54
1354278	Soil	1.0	34.1	12.7	69	0.1	31.1	11.2	518	2.82	12.4	2.6	3.4	41	0.3	0.8	0.2	59	1.21	0.068	16
1354280	Soil	1.2	33.8	15.6	64	<0.1	28.2	10.7	374	2.97	13.8	2.8	6.5	32	0.1	0.8	0.2	51	0.56	0.043	22
1354290	Soil	1.0	34.9	17.2	58	0.1	29.5	11.1	441	2.99	12.8	3.0	5.1	33	0.1	0.8	0.2	62	0.59	0.036	20
1354289	Soil	1.2	30.3	17.0	57	<0.1	26.6	10.1	442	2.68	10.8	2.2	6.2	32	0.1	0.8	0.2	55	0.54	0.035	22
1354287	Soil	1.2	74.3	102.3	201	0.3	147.2	40.5	1140	4.73	4.1	4.2	19.5	39	0.9	0.2	0.8	81	0.50	0.072	49
1354293	Soil	0.9	38.0	10.0	64	0.1	35.8	11.4	481	2.86	10.6	2.3	3.7	40	0.2	0.7	0.2	53	1.28	0.067	18
1354286	Soil	0.9	85.6	16.2	188	0.2	51.5	41.5	1223	4.14	3.5	2.5	2.6	54	2.4	0.2	0.2	85	1.52	0.081	24
1354288	Soil	1.0	25.6	48.8	46	<0.1	15.1	5.0	807	1.64	15.0	1.8	22.5	11	0.2	0.5	0.3	19	0.13	0.013	44
1354291	Soil	0.9	32.4	13.0	67	0.1	27.2	10.7	419	2.74	11.8	14.2	4.1	39	0.2	0.7	0.2	55	0.77	0.054	18
1354285	Soil	0.9	161.5	41.6	237	0.1	82.6	33.9	703	3.99	6.3	2.6	12.7	23	0.9	0.5	<0.1	65	0.45	0.100	52
1354297	Soil	0.9	51.2	15.1	64	0.1	23.2	12.5	668	3.19	8.8	3.7	5.6	28	0.1	0.5	0.2	61	0.81	0.041	21
1354296	Soil	0.9	224.2	25.2	276	0.3	31.7	21.1	1584	3.90	3.6	3.2	2.3	25	0.8	0.3	0.1	89	2.07	0.040	10
1354294	Soil	0.6	37.4	13.0	60	0.2	48.9	11.7	489	2.59	9.7	4.3	4.5	28	0.2	0.9	0.2	54	0.86	0.052	18
1354295	Soil	0.7	69.2	15.0	67	0.2	27.1	11.5	656	2.90	7.2	2.9	4.4	37	0.6	0.6	0.2	55	1.18	0.050	20
1354281	Soil	0.6	20.3	20.7	46	<0.1	16.8	6.8	281	2.01	8.1	2.1	10.7	24	0.1	0.6	0.2	35	0.37	0.043	35
1354299	Soil	0.9	28.1	13.7	59	0.1	19.9	8.9	424	2.72	9.7	2.7	8.1	24	<0.1	0.5	0.3	48	0.56	0.030	26
1354298	Soil	0.4	101.7	5.3	61	<0.1	31.8	27.2	938	4.96	2.2	6.0	1.7	34	<0.1	0.3	<0.1	133	3.09	0.033	7
1354277	Soil	0.9	36.4	9.0	70	<0.1	40.6	11.8	461	2.70	10.1	2.6	4.0	42	0.3	0.8	0.1	54	1.37	0.072	16



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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te	
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
1502210	Soil	16	0.25	560	0.021	<1	0.84	0.007	0.14	0.1	0.03	3.1	0.1	<0.05	2	<0.5	<0.2	
1502212	Soil	27	0.44	552	0.033	1	1.43	0.013	0.12	0.1	0.04	4.5	<0.1	<0.05	4	<0.5	<0.2	
1502211	Soil	31	0.54	488	0.049	<1	1.52	0.020	0.07	0.2	0.03	4.6	<0.1	<0.05	4	<0.5	<0.2	
1502215	Soil	19	0.27	342	0.020	<1	0.92	0.009	0.11	0.1	0.02	3.1	<0.1	<0.05	3	<0.5	<0.2	
1354275	Soil	43	0.93	390	0.016	1	1.69	0.013	0.08	0.1	0.03	8.7	<0.1	<0.05	5	<0.5	<0.2	
1354270	Soil	3	0.07	299	<0.001	<1	0.37	0.011	0.07	<0.1	0.06	2.1	<0.1	<0.05	<1	<0.5	<0.2	
1354271	Soil	23	0.46	401	0.014	<1	1.56	0.011	0.05	<0.1	0.02	4.8	<0.1	<0.05	4	<0.5	<0.2	
1354276	Soil	42	0.72	400	0.046	2	1.58	0.019	0.07	0.2	0.03	4.9	0.1	<0.05	4	<0.5	<0.2	
1354272	Soil	32	1.14	478	0.012	<1	2.37	0.030	0.05	<0.1	0.04	14.2	<0.1	<0.05	7	<0.5	<0.2	
1354273	Soil	50	1.56	470	0.034	1	2.96	0.040	0.04	<0.1	0.03	13.1	<0.1	<0.05	8	<0.5	<0.2	
1354292	Soil	34	0.58	393	0.043	2	1.28	0.020	0.06	0.4	0.04	3.8	<0.1	<0.05	4	0.6	<0.2	
1354283	Soil	20	0.47	260	0.022	<1	1.06	0.008	0.14	0.1	0.02	3.2	<0.1	<0.05	3	<0.5	<0.2	
1354278	Soil	34	0.67	370	0.053	1	1.49	0.023	0.08	0.2	0.05	4.5	<0.1	<0.05	4	0.5	<0.2	
1354280	Soil	34	0.56	444	0.042	1	1.73	0.020	0.08	0.1	0.04	5.2	<0.1	<0.05	5	<0.5	<0.2	
1354290	Soil	35	0.59	428	0.058	1	1.74	0.018	0.08	0.2	0.04	5.4	<0.1	<0.05	5	<0.5	<0.2	
1354289	Soil	32	0.49	439	0.046	1	1.57	0.016	0.09	0.2	0.04	5.0	<0.1	<0.05	4	<0.5	<0.2	
1354287	Soil	262	4.87	585	0.122	<1	3.58	0.007	0.52	<0.1	0.08	11.5	0.4	<0.05	13	0.8	<0.2	
1354293	Soil	37	0.77	388	0.045	3	1.50	0.021	0.08	0.2	0.03	4.7	<0.1	<0.05	4	0.5	<0.2	
1354286	Soil	97	1.20	195	0.055	2	2.35	0.055	0.11	<0.1	0.08	15.0	0.2	<0.05	7	0.6	<0.2	
1354288	Soil	14	0.22	274	0.013	<1	0.79	0.005	0.17	<0.1	0.02	4.0	0.2	<0.05	2	<0.5	<0.2	
1354291	Soil	31	0.59	419	0.044	1	1.51	0.021	0.07	0.2	0.04	4.6	<0.1	<0.05	5	0.7	<0.2	
1354285	Soil	153	2.49	888	0.089	<1	2.43	0.004	0.38	<0.1	0.02	8.6	0.6	<0.05	7	<0.5	<0.2	
1354297	Soil	27	0.82	408	0.031	2	1.83	0.025	0.06	0.1	0.03	7.4	<0.1	<0.05	5	<0.5	<0.2	
1354296	Soil	53	2.64	300	0.016	<1	2.65	0.006	0.02	<0.1	0.06	11.5	<0.1	<0.05	7	<0.5	<0.2	
1354294	Soil	52	0.76	464	0.030	2	1.53	0.017	0.09	0.2	0.04	5.0	<0.1	<0.05	4	0.5	<0.2	
1354295	Soil	30	0.69	599	0.034	2	1.73	0.019	0.06	0.2	0.04	6.7	<0.1	<0.05	5	0.7	<0.2	
1354281	Soil	19	0.35	276	0.034	<1	0.99	0.012	0.11	0.1	0.02	3.8	0.1	<0.05	3	<0.5	<0.2	
1354299	Soil	26	0.47	474	0.037	<1	1.41	0.016	0.07	0.1	0.04	4.5	<0.1	<0.05	4	<0.5	<0.2	
1354298	Soil	57	2.55	142	0.009	<1	3.28	0.009	0.03	<0.1	0.03	20.2	<0.1	<0.05	9	<0.5	<0.2	
1354277	Soil	44	0.90	304	0.056	2	1.37	0.022	0.09	0.2	0.02	4.7	<0.1	<0.05	4	<0.5	<0.2	



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CERTIFICATE OF ANALYSIS

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Method Analyte	AQ201																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
1354282	Soil	0.9	27.3	19.3	50	0.1	23.9	8.3	355	2.30	10.0	2.4	7.6	30	0.1	0.7	0.2	42	0.47	0.050	28
1354279	Soil	1.1	35.4	11.4	71	0.2	30.7	11.1	480	2.72	12.2	3.0	3.1	44	0.3	0.8	0.2	52	1.12	0.062	15
1354274	Soil	1.0	61.9	9.5	65	<0.1	8.0	8.3	1805	2.42	0.8	1.3	5.3	37	0.1	0.2	<0.1	15	3.36	0.063	22
1354284	Soil	1.8	118.8	127.5	164	0.8	41.0	16.1	533	3.43	9.1	6.1	8.7	45	1.1	0.8	1.0	40	0.73	0.076	23
1354398	Soil	0.7	61.9	31.3	130	0.2	21.9	12.5	301	2.95	6.7	3.1	3.9	29	0.4	0.5	0.3	57	0.57	0.068	15
1502036	Soil	1.0	62.3	34.3	150	0.2	22.3	11.4	739	3.62	8.4	2.7	4.5	23	0.4	0.4	0.7	58	0.65	0.070	16
1502035	Soil	0.9	44.3	28.0	114	0.1	19.7	12.2	691	3.49	8.0	1.5	3.6	24	0.3	0.4	0.5	61	0.67	0.075	14
1354400	Soil	0.8	35.8	15.2	79	0.1	14.6	8.6	424	2.58	5.6	4.7	2.6	30	0.3	0.3	0.2	49	0.86	0.059	12
1502046	Soil	0.3	125.1	19.9	115	<0.1	21.2	30.1	1217	5.57	3.8	5.9	0.9	15	0.1	0.3	<0.1	107	1.91	0.065	4
1502034	Soil	0.9	43.0	44.6	122	0.2	22.2	11.4	541	3.00	9.4	3.0	4.2	27	0.3	0.5	0.4	53	0.68	0.059	16
1502033	Soil	0.8	50.4	29.4	92	0.1	15.1	8.4	437	2.61	7.3	61.7	4.8	21	0.2	0.5	0.3	47	0.52	0.047	16
1354399	Soil	0.8	23.1	14.5	66	<0.1	15.2	8.4	365	2.45	5.7	21.5	4.7	24	0.2	0.3	0.2	47	0.59	0.056	15
1502043	Soil	2.5	16.2	11.0	24	<0.1	7.5	3.3	144	1.10	2.6	1.8	6.7	13	<0.1	0.2	1.1	10	0.10	0.007	9
1502041	Soil	0.8	50.0	10.7	65	<0.1	24.5	17.4	713	3.71	7.9	4.0	2.7	24	0.1	0.7	0.1	85	1.20	0.047	10
1502042	Soil	0.8	102.2	21.6	85	0.2	24.9	30.7	829	5.34	8.8	6.0	4.0	15	0.1	0.3	0.1	84	1.97	0.074	15
1502047	Soil	0.7	67.9	25.5	158	0.1	20.7	15.6	939	4.72	7.0	3.3	3.0	16	0.3	0.4	0.2	86	0.77	0.060	12
1502038	Soil	0.8	46.6	16.0	74	0.1	20.4	11.8	734	3.42	5.9	2.4	1.8	31	0.2	0.4	0.2	61	1.31	0.068	11
1502048	Soil	1.4	68.1	30.3	166	0.1	22.9	14.4	649	4.31	7.8	4.7	3.2	18	0.2	0.5	0.4	81	0.42	0.037	13
1502045	Soil	0.6	199.7	331.8	283	0.2	42.3	29.3	1610	5.49	7.1	4.6	0.5	11	0.8	0.3	<0.1	115	2.71	0.047	3
1502039	Soil	1.0	62.4	15.4	81	0.1	36.0	24.3	1045	4.87	8.5	3.2	2.2	20	0.2	0.5	0.1	98	1.91	0.044	9
1502040	Soil	0.4	39.4	7.6	81	<0.1	44.6	32.2	1181	5.57	1.9	1.5	0.3	17	<0.1	0.1	<0.1	126	3.91	0.048	2
1502037	Soil	0.9	56.6	13.2	112	0.2	19.0	11.9	832	4.20	6.9	2.0	2.6	19	0.3	0.4	0.4	62	0.72	0.077	11
1502044	Soil	0.9	84.8	40.6	190	0.2	21.5	20.1	1034	4.24	7.5	3.9	4.6	23	0.8	0.3	0.1	37	4.74	0.069	7
1502106	Soil	1.0	67.8	34.2	136	0.1	23.6	15.7	1043	3.37	7.8	2.9	3.8	31	0.5	0.4	0.2	57	0.67	0.073	14
1502101	Soil	0.9	86.6	22.1	762	0.2	10.4	16.1	2706	5.02	7.5	4.9	3.7	15	4.1	0.3	0.9	57	0.47	0.121	16
1502104	Soil	0.4	59.6	13.2	182	<0.1	51.1	32.1	1284	4.83	5.8	2.9	2.7	32	3.4	0.3	0.1	103	1.33	0.117	19
1502103	Soil	0.9	51.0	18.8	146	0.1	19.3	9.8	445	3.30	8.6	3.9	3.7	21	0.2	0.5	0.7	61	0.39	0.035	14
1502049	Soil	1.0	54.0	18.2	155	0.1	21.9	9.2	505	3.14	7.7	6.4	3.6	29	0.4	0.5	0.7	55	0.63	0.048	16
1502050	Soil	1.0	33.0	15.5	80	<0.1	16.6	8.6	352	2.94	6.4	1.7	4.2	19	<0.1	0.4	0.3	52	0.40	0.040	16
1502105	Soil	0.9	377.1	10.1	450	0.2	28.7	33.2	1046	5.79	2.3	11.9	2.1	23	0.5	<0.1	<0.1	104	1.30	0.087	11



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Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Tl ppm	S %	Ga ppm	Se ppm	Te ppm	
1354282	Soil	25	0.47	405	0.035	3	1.27	0.016	0.09	0.2	0.04	4.4	<0.1	<0.05	4	<0.5	<0.2
1354279	Soil	32	0.68	410	0.039	3	1.52	0.020	0.07	0.2	0.04	4.5	<0.1	<0.05	4	<0.5	<0.2
1354274	Soil	3	1.02	342	0.002	1	1.54	0.006	0.04	<0.1	0.01	4.1	<0.1	<0.05	4	<0.5	<0.2
1354284	Soil	56	1.69	408	0.048	2	1.66	0.012	0.15	<0.1	0.31	4.6	0.2	0.11	5	1.3	0.2
1354398	Soil	32	1.14	326	0.026	2	1.71	0.012	0.05	0.2	0.04	6.3	<0.1	0.06	5	<0.5	<0.2
1502036	Soil	28	0.75	586	0.012	1	1.65	0.010	0.05	0.1	0.08	7.7	<0.1	<0.05	5	0.6	<0.2
1502035	Soil	26	0.66	509	0.016	2	1.58	0.011	0.04	0.1	0.07	7.6	<0.1	<0.05	5	<0.5	<0.2
1354400	Soil	23	0.54	511	0.014	2	1.31	0.013	0.05	0.2	0.05	5.5	<0.1	<0.05	4	<0.5	<0.2
1502046	Soil	26	2.18	206	0.002	<1	2.99	0.005	0.05	<0.1	0.02	14.1	<0.1	<0.05	9	<0.5	<0.2
1502034	Soil	27	0.59	539	0.022	1	1.58	0.014	0.05	0.2	0.10	6.9	<0.1	<0.05	5	<0.5	<0.2
1502033	Soil	24	0.48	622	0.020	1	1.35	0.012	0.06	0.1	0.05	5.2	<0.1	<0.05	4	<0.5	<0.2
1354399	Soil	22	0.55	546	0.017	1	1.31	0.010	0.05	0.4	0.04	5.3	<0.1	<0.05	4	<0.5	<0.2
1502043	Soil	5	0.06	373	0.002	1	0.41	0.004	0.04	<0.1	0.02	4.9	<0.1	<0.05	<1	<0.5	<0.2
1502041	Soil	25	1.03	668	0.024	2	1.91	0.013	0.04	0.2	0.04	10.6	<0.1	<0.05	5	<0.5	<0.2
1502042	Soil	34	1.93	425	0.002	<1	2.53	0.005	0.04	<0.1	0.03	15.2	<0.1	<0.05	7	<0.5	<0.2
1502047	Soil	24	1.15	410	0.007	<1	2.38	0.011	0.05	<0.1	0.04	15.0	<0.1	<0.05	7	<0.5	<0.2
1502038	Soil	20	0.82	565	0.015	1	1.95	0.010	0.03	0.1	0.05	8.5	<0.1	<0.05	5	0.6	<0.2
1502048	Soil	30	0.92	569	0.014	1	2.23	0.009	0.05	<0.1	0.08	13.5	0.1	<0.05	6	<0.5	<0.2
1502045	Soil	71	2.38	233	0.002	1	3.09	0.005	0.03	<0.1	0.10	18.1	<0.1	<0.05	8	<0.5	<0.2
1502039	Soil	36	0.60	954	0.019	<1	1.50	0.013	0.04	<0.1	0.11	16.8	<0.1	<0.05	4	<0.5	<0.2
1502040	Soil	74	0.67	1606	<0.001	<1	2.10	0.006	0.05	<0.1	0.04	20.5	<0.1	<0.05	6	<0.5	<0.2
1502037	Soil	18	0.72	530	0.011	2	1.69	0.010	0.04	0.1	0.08	10.5	<0.1	<0.05	5	0.6	<0.2
1502044	Soil	24	0.65	385	<0.001	<1	1.45	0.007	0.05	<0.1	0.14	12.2	<0.1	<0.05	4	0.6	<0.2
1502106	Soil	32	1.10	327	0.022	2	1.76	0.011	0.05	0.1	0.06	6.4	<0.1	<0.05	5	<0.5	<0.2
1502101	Soil	10	1.47	434	0.003	<1	2.37	0.007	0.03	<0.1	0.12	11.2	<0.1	<0.05	8	<0.5	<0.2
1502104	Soil	104	1.29	336	0.023	1	2.98	0.034	0.07	<0.1	0.05	17.8	0.1	<0.05	9	<0.5	<0.2
1502103	Soil	29	0.72	361	0.033	2	1.71	0.015	0.04	0.1	0.05	6.5	<0.1	<0.05	5	<0.5	<0.2
1502049	Soil	28	0.73	461	0.026	1	1.97	0.013	0.05	0.1	0.05	7.0	<0.1	<0.05	6	<0.5	<0.2
1502050	Soil	24	0.71	396	0.024	1	1.76	0.011	0.05	0.1	0.04	5.7	<0.1	<0.05	6	<0.5	<0.2
1502105	Soil	41	2.47	146	0.002	<1	3.43	0.014	0.05	<0.1	0.05	11.2	<0.1	<0.05	10	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

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Method Analyte	AQ201																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
1502102	Soil	1.0	57.7	20.2	134	0.1	21.6	10.8	474	3.36	10.3	4.3	4.1	25	0.2	0.5	0.7	62	0.46	0.042	15
1502401	Soil	0.9	28.5	77.2	153	0.2	18.2	9.4	401	2.44	8.1	4.5	7.9	17	0.2	0.4	0.3	41	0.41	0.042	23
1502404	Soil	0.9	58.6	24.5	92	0.1	22.2	16.0	868	3.47	7.0	4.3	4.3	17	0.4	0.5	0.2	65	0.48	0.047	15
1502412	Soil	0.9	45.1	27.2	113	0.2	14.3	9.3	793	2.21	6.3	2.7	3.1	32	0.7	0.4	0.3	35	0.95	0.059	15
1502413	Soil	0.9	40.3	29.5	97	0.1	14.2	8.6	471	2.36	6.3	2.3	5.3	26	0.4	0.3	0.4	38	0.64	0.039	19
1502403	Soil	1.0	36.6	45.7	144	0.2	19.0	11.9	607	3.04	9.8	5.8	5.0	17	0.3	0.5	0.4	56	0.42	0.046	13
1502402	Soil	1.1	42.6	51.7	147	0.2	18.6	9.9	698	3.24	10.5	3.2	5.9	23	0.3	0.8	0.5	35	1.05	0.068	18
1502414	Soil	0.7	22.5	13.5	77	<0.1	6.4	4.2	300	1.23	2.8	1.8	7.5	9	0.3	0.2	0.3	13	0.19	0.038	16
1502408	Soil	0.9	19.3	20.5	52	0.1	10.5	6.5	400	1.82	4.4	1.2	9.6	13	0.2	0.3	0.3	29	0.27	0.035	25
1502409	Soil	0.8	12.3	17.8	48	<0.1	5.7	5.3	479	1.54	2.3	<0.5	11.0	12	0.2	0.1	0.2	17	0.34	0.039	33
1502410	Soil	0.7	16.3	23.3	49	0.1	5.8	4.1	319	1.55	2.6	1.3	12.5	16	0.2	0.2	0.2	15	0.34	0.036	35
1502406	Soil	0.7	35.2	16.3	77	0.1	19.5	11.2	536	2.77	6.8	2.6	3.9	19	0.3	0.3	0.2	57	0.45	0.045	14
1502407	Soil	0.9	18.2	15.4	57	<0.1	13.8	9.9	433	2.23	7.1	0.6	4.2	14	0.3	0.3	0.2	46	0.34	0.038	13
1502415	Soil	0.9	34.4	24.7	115	0.2	11.5	7.5	491	1.93	5.2	1.9	4.5	15	0.3	0.3	0.3	33	0.29	0.041	15
1502421	Soil	1.2	65.9	69.7	352	0.6	10.3	9.9	582	2.59	26.6	6.0	13.2	18	0.9	0.4	0.7	9	0.48	0.069	16
1502419	Soil	0.9	75.2	37.0	226	0.2	19.0	17.1	942	4.44	9.2	2.8	4.4	13	0.5	0.4	0.4	72	0.42	0.059	13
1502417	Soil	0.8	48.8	21.4	114	0.2	20.8	12.0	539	3.20	7.6	2.5	4.4	17	0.2	0.5	0.3	54	0.48	0.042	15
1502416	Soil	1.0	42.2	29.7	88	0.2	18.9	10.6	681	2.57	7.9	2.3	3.5	24	0.6	0.4	0.3	48	0.68	0.059	14
1502424	Soil	3.4	159.7	45.9	130	0.3	38.3	35.2	1885	5.72	26.0	18.7	0.4	26	0.3	0.4	<0.1	100	6.53	0.043	3
1502429	Soil	0.2	99.3	7.6	50	<0.1	28.5	22.2	622	4.31	2.0	1.6	4.3	6	<0.1	0.2	<0.1	113	0.17	0.026	18
1502405	Soil	0.9	36.5	15.4	74	0.1	22.4	11.3	502	2.79	8.1	2.2	4.6	20	0.2	0.6	0.2	53	0.46	0.044	15
1502420	Soil	1.1	37.4	68.4	155	0.2	18.3	10.8	771	2.69	10.9	2.4	6.5	22	0.8	0.6	0.3	35	0.60	0.053	20
1502423	Soil	0.4	27.2	25.4	74	0.1	11.7	12.0	582	2.81	3.7	4.6	7.4	22	0.3	0.3	0.2	21	3.14	0.060	10
1502425	Soil	0.5	25.6	23.1	66	<0.1	16.7	15.7	921	2.85	7.6	4.4	3.2	20	0.2	0.2	0.2	35	5.74	0.044	6
1502426	Soil	0.9	23.7	46.4	61	<0.1	16.5	9.3	1035	2.98	4.2	1.3	17.7	14	0.2	0.4	0.1	26	0.37	0.064	61
1502427	Soil	0.2	64.0	6.4	57	<0.1	65.4	25.3	569	3.68	1.7	<0.5	8.2	27	<0.1	0.2	<0.1	90	4.57	0.097	23
1502432	Soil	1.0	40.2	24.6	91	0.1	25.7	11.8	601	2.94	9.4	2.4	6.3	21	0.2	0.6	0.2	43	0.61	0.038	19
1502422	Soil	1.1	48.7	40.4	96	0.3	23.8	13.5	543	3.24	13.3	9.4	7.2	21	0.1	0.7	0.3	49	0.45	0.028	18
1502418	Soil	0.9	55.8	24.1	129	0.2	22.8	12.5	597	3.43	9.9	10.0	3.4	24	0.3	0.5	0.4	57	0.62	0.053	15
1502431	Soil	0.6	50.5	16.7	67	0.1	22.7	15.2	694	3.21	7.1	5.3	5.7	23	0.2	0.5	0.1	47	1.89	0.040	14



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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te	
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
1502102	Soil	29	0.75	432	0.028	1	1.91	0.013	0.05	0.1	0.08	7.8	<0.1	<0.05	5	<0.5	<0.2	
1502401	Soil	23	0.43	422	0.018	<1	1.59	0.013	0.05	0.1	0.05	5.7	<0.1	<0.05	4	<0.5	<0.2	
1502404	Soil	31	1.07	313	0.023	<1	1.99	0.011	0.04	0.1	0.05	8.6	<0.1	<0.05	5	<0.5	<0.2	
1502412	Soil	16	0.54	398	0.009	1	1.14	0.010	0.06	0.1	0.05	4.5	<0.1	0.09	3	0.6	<0.2	
1502413	Soil	18	0.57	442	0.009	1	1.23	0.011	0.05	0.1	0.04	5.3	<0.1	<0.05	4	<0.5	<0.2	
1502403	Soil	25	0.69	373	0.016	1	1.65	0.013	0.05	0.1	0.03	6.9	<0.1	<0.05	5	<0.5	<0.2	
1502402	Soil	18	0.59	354	0.017	<1	1.38	0.016	0.05	0.1	0.07	6.7	<0.1	<0.05	4	<0.5	<0.2	
1502414	Soil	8	0.19	454	0.003	<1	0.51	0.006	0.05	<0.1	0.02	2.2	<0.1	<0.05	1	<0.5	<0.2	
1502408	Soil	15	0.39	428	0.009	<1	1.01	0.009	0.04	0.1	0.03	4.2	<0.1	<0.05	3	<0.5	<0.2	
1502409	Soil	10	0.34	421	0.004	<1	0.85	0.009	0.06	<0.1	0.02	3.0	<0.1	<0.05	3	<0.5	<0.2	
1502410	Soil	8	0.22	345	0.003	<1	0.70	0.007	0.08	<0.1	0.02	2.9	<0.1	<0.05	2	<0.5	<0.2	
1502406	Soil	27	0.78	369	0.020	<1	1.64	0.011	0.04	0.1	0.03	6.7	<0.1	<0.05	5	<0.5	<0.2	
1502407	Soil	22	0.54	320	0.019	<1	1.35	0.010	0.04	0.1	0.02	3.8	<0.1	<0.05	4	<0.5	<0.2	
1502415	Soil	16	0.42	438	0.010	<1	0.89	0.009	0.04	<0.1	0.05	4.2	<0.1	<0.05	3	<0.5	<0.2	
1502421	Soil	5	0.11	295	0.001	<1	0.45	0.007	0.05	<0.1	0.25	3.0	<0.1	<0.05	1	0.5	<0.2	
1502419	Soil	16	1.17	303	0.010	<1	2.06	0.009	0.03	<0.1	0.07	12.3	<0.1	<0.05	6	<0.5	<0.2	
1502417	Soil	26	0.90	406	0.015	<1	1.93	0.012	0.05	0.1	0.04	8.1	<0.1	<0.05	5	<0.5	<0.2	
1502416	Soil	23	0.67	478	0.012	<1	1.46	0.012	0.05	0.1	0.04	5.8	<0.1	<0.05	4	0.5	<0.2	
1502424	Soil	28	1.24	442	<0.001	<1	1.93	0.008	0.02	<0.1	0.02	24.7	<0.1	<0.05	5	0.6	<0.2	
1502429	Soil	64	2.76	74	0.003	<1	3.44	0.004	<0.01	<0.1	0.02	18.8	<0.1	<0.05	8	<0.5	<0.2	
1502405	Soil	26	0.68	334	0.027	<1	1.65	0.014	0.05	0.2	0.02	6.2	<0.1	<0.05	5	<0.5	<0.2	
1502420	Soil	20	0.38	439	0.015	<1	1.32	0.017	0.06	0.1	0.08	4.8	<0.1	<0.05	3	<0.5	<0.2	
1502423	Soil	14	0.50	186	0.004	<1	1.05	0.009	0.03	<0.1	0.03	7.8	<0.1	<0.05	3	<0.5	<0.2	
1502425	Soil	14	0.25	291	<0.001	<1	0.75	0.008	0.05	<0.1	0.02	9.6	<0.1	<0.05	2	<0.5	<0.2	
1502426	Soil	20	0.66	310	0.006	<1	1.33	0.010	0.03	<0.1	0.04	7.0	<0.1	<0.05	4	<0.5	<0.2	
1502427	Soil	310	3.29	71	0.004	<1	3.49	0.004	0.01	<0.1	0.02	13.5	<0.1	<0.05	10	<0.5	<0.2	
1502432	Soil	25	0.57	387	0.025	<1	1.46	0.016	0.05	0.1	0.05	6.7	<0.1	<0.05	4	<0.5	<0.2	
1502422	Soil	27	0.69	467	0.027	<1	1.68	0.015	0.06	0.1	0.09	6.3	<0.1	<0.05	5	<0.5	<0.2	
1502418	Soil	28	0.89	372	0.021	<1	1.87	0.014	0.05	0.1	0.07	8.2	<0.1	<0.05	5	<0.5	<0.2	
1502431	Soil	22	0.74	253	0.013	<1	1.51	0.013	0.05	0.1	0.05	8.6	<0.1	<0.05	4	<0.5	<0.2	



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Method Analyte	AQ201																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
1502428	Soil	0.1	64.6	4.9	53	<0.1	28.3	18.8	836	3.72	1.6	0.8	2.1	16	<0.1	0.2	<0.1	91	0.68	0.074	13
1502430	Soil	0.2	71.6	4.5	54	<0.1	20.1	25.7	833	4.83	1.5	1.7	0.8	26	<0.1	0.1	<0.1	110	4.25	0.044	5
1354223	Soil	0.3	82.3	12.7	86	0.1	20.9	27.0	1041	5.48	5.6	3.5	1.5	15	0.2	0.4	0.1	130	2.69	0.056	4
1354230	Soil	0.5	18.5	10.9	31	<0.1	9.1	5.9	416	1.11	1.4	1.3	7.5	35	0.2	0.2	<0.1	6	4.16	0.029	19
1354228	Soil	0.2	96.0	12.2	85	<0.1	25.5	32.6	1041	6.12	3.8	4.9	1.1	13	<0.1	0.2	<0.1	163	2.65	0.054	6
1354227	Soil	0.4	25.7	64.3	143	0.1	9.7	9.0	622	2.26	3.9	5.8	9.2	15	0.1	0.1	0.2	20	0.43	0.047	29
1354229	Soil	0.6	13.8	12.9	25	<0.1	5.2	3.1	147	1.04	3.0	<0.5	16.2	6	<0.1	0.3	<0.1	9	0.10	0.021	37
1354225	Soil	0.5	90.0	35.9	150	0.2	25.9	25.5	738	4.94	8.1	7.0	2.4	14	0.2	0.4	0.5	86	0.61	0.043	9
1354226	Soil	0.7	40.1	30.3	98	0.3	16.9	7.9	461	2.81	10.1	4.4	9.3	15	<0.1	0.5	0.6	31	0.39	0.015	33
1354224	Soil	1.1	31.9	25.9	291	0.6	4.6	4.0	870	1.05	2.0	7.4	9.1	30	1.2	0.3	0.4	4	2.60	0.025	18
1354203	Soil	0.4	15.1	16.2	18	<0.1	5.7	3.0	279	0.70	2.3	2.8	12.4	10	<0.1	0.2	0.1	11	0.18	0.010	21
1354221	Soil	0.9	50.3	14.3	78	0.1	26.9	12.8	633	3.17	9.8	1.8	4.3	27	0.3	0.6	0.2	65	0.83	0.055	14
1354201	Soil	1.2	27.6	25.8	92	<0.1	4.1	2.4	43	0.91	2.4	4.8	10.3	6	<0.1	0.3	0.4	7	0.07	0.005	20
1354206	Soil	0.5	21.4	15.2	25	<0.1	10.4	3.9	334	1.07	4.1	2.3	9.6	16	<0.1	0.3	0.3	19	0.33	0.020	17
1354207	Soil	0.8	31.8	25.5	55	0.1	15.1	7.1	363	1.89	6.0	3.3	8.8	24	<0.1	0.5	0.3	31	0.41	0.025	25
1354222	Soil	0.9	61.6	21.6	109	0.2	24.7	11.9	614	3.54	9.9	5.0	4.6	24	0.2	0.6	0.7	56	0.68	0.042	14
1354205	Soil	0.9	32.7	22.5	50	<0.1	18.0	7.7	448	2.11	5.0	6.8	12.3	18	<0.1	0.6	0.2	31	0.39	0.025	31
1354448	Soil	2.0	29.9	19.1	81	0.6	10.5	8.7	312	2.39	6.4	4.7	10.9	9	<0.1	0.5	0.2	19	0.12	0.009	20
1354204	Soil	0.5	18.4	20.9	36	<0.1	5.4	3.6	338	1.33	2.6	2.8	17.5	9	<0.1	0.3	0.3	8	0.19	0.021	37
1354202	Soil	0.3	14.4	24.2	42	0.2	5.5	4.7	416	0.79	3.0	2.2	12.8	10	0.2	0.3	0.2	8	0.25	0.013	27
1354215	Soil	0.6	17.6	27.3	36	<0.1	8.2	4.7	394	1.40	3.8	1.6	12.9	20	0.2	0.2	0.2	22	0.41	0.045	37
1354209	Soil	1.2	25.7	26.6	54	0.1	12.1	5.4	427	1.90	4.3	2.4	19.1	20	0.1	0.5	0.2	21	0.25	0.024	48
1354217	Soil	0.7	16.8	19.0	41	<0.1	11.9	6.1	283	1.75	5.9	1.3	10.8	16	<0.1	0.3	0.2	32	0.33	0.027	31
1354216	Soil	0.5	11.4	21.9	23	<0.1	5.4	3.3	244	0.86	3.2	2.2	15.5	14	<0.1	0.2	0.2	18	0.22	0.033	42
1354218	Soil	0.9	31.3	16.5	63	<0.1	21.6	10.5	463	2.75	7.9	2.2	4.8	22	0.1	0.5	0.2	56	0.55	0.054	17
1354211	Soil	1.0	42.7	15.9	78	0.1	26.7	10.9	466	2.90	10.5	4.7	5.0	31	0.2	0.8	0.2	56	0.84	0.048	17
1354219	Soil	1.2	48.7	20.9	82	0.1	28.9	14.3	679	3.19	10.0	2.8	4.2	32	0.2	0.7	0.2	62	0.88	0.050	16
1354208	Soil	0.5	22.8	19.4	29	0.1	10.8	4.0	326	1.14	4.0	2.6	13.8	13	<0.1	0.3	0.1	18	0.24	0.024	43
1354210	Soil	1.0	29.8	22.2	64	0.1	18.7	8.6	419	2.34	7.5	3.8	8.8	24	0.2	0.5	0.2	43	0.42	0.043	29
1354213	Soil	1.1	38.5	14.3	68	0.1	24.4	10.1	390	2.73	9.3	2.1	4.9	28	0.1	0.6	0.2	55	0.58	0.043	19



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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te	
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
1502428	Soil	55	2.36	68	0.003	<1	2.80	0.005	<0.01	<0.1	0.01	16.1	<0.1	<0.05	8	<0.5	<0.2	
1502430	Soil	32	1.70	67	0.002	<1	2.38	0.006	0.01	<0.1	0.02	19.2	<0.1	<0.05	7	<0.5	<0.2	
1354223	Soil	23	1.58	329	0.002	<1	2.71	0.008	0.02	<0.1	0.06	25.3	<0.1	<0.05	7	<0.5	<0.2	
1354230	Soil	12	0.29	431	<0.001	<1	0.79	0.006	0.04	<0.1	0.01	3.5	<0.1	<0.05	2	<0.5	<0.2	
1354228	Soil	41	2.75	262	0.002	<1	4.08	0.005	0.04	<0.1	<0.01	21.4	<0.1	<0.05	11	<0.5	<0.2	
1354227	Soil	12	0.90	407	0.002	<1	1.73	0.007	0.07	<0.1	0.04	4.5	<0.1	<0.05	4	<0.5	<0.2	
1354229	Soil	6	0.11	184	0.002	<1	0.60	0.005	0.04	<0.1	0.01	3.8	<0.1	<0.05	1	<0.5	<0.2	
1354225	Soil	44	1.85	322	0.008	<1	2.92	0.009	0.03	<0.1	0.06	16.1	<0.1	<0.05	7	<0.5	<0.2	
1354226	Soil	23	0.79	296	0.012	<1	1.82	0.012	0.04	<0.1	0.06	6.9	<0.1	<0.05	5	<0.5	<0.2	
1354224	Soil	4	0.20	637	<0.001	<1	0.56	0.007	0.06	<0.1	0.13	2.0	<0.1	<0.05	1	<0.5	<0.2	
1354203	Soil	7	0.10	577	0.003	<1	0.60	0.006	0.06	<0.1	0.01	2.7	<0.1	<0.05	1	<0.5	<0.2	
1354221	Soil	29	0.85	385	0.035	<1	1.85	0.019	0.06	0.2	0.04	8.1	<0.1	<0.05	5	<0.5	<0.2	
1354201	Soil	5	0.05	609	0.001	<1	0.65	0.004	0.05	<0.1	0.07	2.6	<0.1	<0.05	1	<0.5	<0.2	
1354206	Soil	10	0.21	558	0.005	2	0.72	0.014	0.06	<0.1	0.03	3.2	<0.1	<0.05	2	<0.5	<0.2	
1354207	Soil	17	0.42	620	0.012	2	1.20	0.012	0.06	0.1	0.03	4.2	<0.1	<0.05	3	<0.5	<0.2	
1354222	Soil	25	0.69	418	0.024	1	1.84	0.016	0.05	0.2	0.06	8.0	<0.1	<0.05	5	<0.5	<0.2	
1354205	Soil	21	0.35	554	0.011	2	1.46	0.014	0.09	<0.1	0.04	5.4	<0.1	<0.05	4	<0.5	<0.2	
1354448	Soil	15	0.14	608	0.004	<1	0.95	0.006	0.07	<0.1	0.10	4.7	<0.1	<0.05	2	<0.5	<0.2	
1354204	Soil	5	0.14	897	0.001	<1	0.67	0.005	0.05	<0.1	0.03	5.1	<0.1	<0.05	2	<0.5	<0.2	
1354202	Soil	4	0.07	884	<0.001	<1	0.49	0.005	0.05	<0.1	0.02	2.5	<0.1	<0.05	<1	<0.5	<0.2	
1354215	Soil	11	0.23	551	0.008	1	0.76	0.007	0.09	<0.1	0.02	3.6	<0.1	<0.05	2	<0.5	<0.2	
1354209	Soil	13	0.27	494	0.009	<1	1.03	0.010	0.08	<0.1	0.03	5.0	<0.1	<0.05	3	<0.5	<0.2	
1354217	Soil	18	0.37	290	0.017	<1	1.08	0.009	0.14	0.1	0.02	4.0	<0.1	<0.05	3	<0.5	<0.2	
1354216	Soil	9	0.17	227	0.008	1	0.53	0.005	0.10	<0.1	0.01	2.0	<0.1	<0.05	1	<0.5	<0.2	
1354218	Soil	28	0.66	318	0.031	<1	1.52	0.013	0.04	0.2	0.03	5.1	<0.1	<0.05	4	<0.5	<0.2	
1354211	Soil	27	0.61	493	0.041	1	1.65	0.016	0.06	0.2	0.05	5.7	<0.1	<0.05	5	<0.5	<0.2	
1354219	Soil	32	0.78	413	0.039	2	1.86	0.016	0.05	0.2	0.04	6.7	<0.1	<0.05	5	<0.5	<0.2	
1354208	Soil	10	0.17	442	0.007	1	0.67	0.006	0.08	<0.1	0.03	3.0	<0.1	<0.05	2	<0.5	<0.2	
1354210	Soil	22	0.47	432	0.032	<1	1.28	0.014	0.07	0.2	0.04	4.6	<0.1	<0.05	4	<0.5	<0.2	
1354213	Soil	30	0.57	506	0.035	2	1.61	0.014	0.05	0.2	0.04	5.9	<0.1	<0.05	5	0.5	<0.2	

This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.



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Method Analyte	Unit	MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
			ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm	
			0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
1354220	Soil		0.9	53.9	18.1	84	0.1	24.2	13.5	567	3.09	8.4	2.3	4.4	27	0.2	0.6	0.2	63	0.77	0.054	15
1354212	Soil		1.0	42.3	16.0	72	0.1	24.7	11.2	447	2.83	8.9	2.8	4.1	31	0.2	0.7	0.3	60	0.75	0.044	15
1354214	Soil		0.4	8.9	15.2	54	<0.1	5.9	4.6	383	1.46	1.5	<0.5	15.0	12	0.2	0.2	<0.1	13	0.30	0.058	38
1502456	Soil		0.5	6.1	11.0	18	<0.1	5.3	1.8	55	0.70	1.9	0.7	11.1	14	<0.1	0.2	<0.1	17	0.12	0.016	37
1502475	Soil		0.8	12.8	15.9	40	<0.1	12.1	5.6	162	1.72	5.6	10.3	7.0	17	0.1	0.4	0.2	41	0.20	0.023	29
1502471	Soil		0.7	20.4	18.3	35	<0.1	15.4	5.5	171	1.70	5.8	2.5	8.5	22	<0.1	0.5	0.2	37	0.24	0.020	32
1502472	Soil		0.7	9.0	25.4	17	<0.1	7.6	2.1	67	0.79	2.5	2.1	13.5	13	<0.1	0.3	0.2	19	0.12	0.011	61
1502477	Soil		0.8	9.2	23.4	40	<0.1	8.8	3.9	157	1.33	4.2	0.6	8.5	21	0.2	0.3	0.2	30	0.27	0.030	42
1502473	Soil		0.9	20.2	21.0	45	<0.1	16.6	6.4	154	2.01	7.8	6.6	9.2	20	<0.1	0.6	0.2	47	0.23	0.025	31
1502455	Soil		0.6	8.5	11.5	37	<0.1	4.1	2.3	113	1.27	1.8	<0.5	11.7	19	0.2	<0.1	0.1	12	0.13	0.025	25
1502476	Soil		0.9	13.1	20.4	40	<0.1	11.3	5.5	136	1.76	5.2	2.0	10.2	20	0.1	0.4	0.2	39	0.25	0.028	35
1502478	Soil		9.8	33.0	83.0	260	0.3	31.3	5.5	220	1.53	36.4	0.7	21.8	25	0.5	3.2	0.3	9	0.20	0.046	35
1502470	Soil		0.8	20.2	18.1	35	<0.1	14.7	5.2	144	1.73	5.5	4.0	9.3	20	<0.1	0.5	0.2	39	0.21	0.016	32
1502457	Soil		0.5	6.2	11.2	19	<0.1	4.2	1.9	67	0.73	1.8	<0.5	16.2	12	<0.1	0.2	0.1	13	0.11	0.016	41
1502474	Soil		0.8	16.3	12.0	38	<0.1	13.7	6.3	165	1.91	6.5	5.5	5.9	19	<0.1	0.5	0.2	44	0.22	0.022	23
1502452	Soil		2.2	18.9	24.5	57	0.2	14.1	8.1	342	1.79	4.0	3.0	10.1	25	0.3	0.4	0.2	30	0.35	0.048	40
1502453	Soil		1.2	13.2	17.7	54	0.4	8.2	5.2	215	1.43	2.5	1.4	11.8	25	0.3	0.1	0.4	12	0.38	0.074	38
1502451	Soil		1.6	15.7	23.9	47	0.2	13.7	8.3	552	1.69	4.8	14.0	6.3	32	0.3	0.3	0.2	34	0.50	0.052	31
1502454	Soil		1.1	47.0	139.1	107	0.1	12.3	4.6	288	1.66	3.2	1.5	8.3	20	0.4	0.2	0.4	18	0.26	0.054	24
1502461	Soil		0.4	15.7	19.7	18	0.1	5.5	1.5	154	0.71	2.5	2.4	23.1	14	<0.1	0.2	0.2	8	0.11	0.010	58
1502468	Soil		0.5	16.8	19.2	32	<0.1	13.3	3.7	127	1.42	5.2	5.3	7.6	19	<0.1	0.4	0.2	31	0.21	0.023	35
1502458	Soil		1.2	18.2	16.9	45	<0.1	12.6	5.3	137	1.75	5.7	6.2	9.6	18	<0.1	0.4	0.2	32	0.19	0.025	26
1502466	Soil		0.3	3.4	19.8	11	<0.1	1.4	0.8	47	0.48	1.5	0.9	11.3	7	0.1	<0.1	0.2	3	0.03	0.012	64
1502462	Soil		0.5	12.6	24.2	32	<0.1	7.0	3.7	337	1.33	4.5	0.8	9.0	25	<0.1	0.3	0.2	11	0.66	0.048	23
1502465	Soil		8.0	35.1	19.7	77	0.4	22.1	6.0	54	2.40	16.5	3.1	12.4	63	0.6	1.4	0.3	47	0.08	0.080	32
1502469	Soil		0.6	18.4	24.0	35	<0.1	14.2	4.1	135	1.68	6.0	3.6	8.0	22	<0.1	0.4	0.2	33	0.21	0.017	30
1502464	Soil		1.0	25.7	17.7	53	<0.1	40.8	17.2	696	3.37	2.2	1.9	19.8	26	0.1	0.6	0.1	39	0.46	0.040	33
1502467	Soil		0.8	24.5	16.1	52	<0.1	20.0	8.1	239	2.33	9.2	4.4	7.2	18	<0.1	0.7	0.2	49	0.17	0.016	26
1502463	Soil		0.9	14.9	31.4	53	<0.1	20.4	12.2	542	2.11	3.9	1.4	18.8	23	0.1	0.3	0.2	20	0.34	0.031	53
1502459	Soil		0.9	20.3	18.3	42	<0.1	16.1	5.3	205	1.87	5.8	2.6	7.4	23	<0.1	0.4	0.1	36	0.31	0.024	20



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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
1354220	Soil	31	0.81	357	0.032	2	1.86	0.012	0.05	0.2	0.05	8.2	<0.1	<0.05	5	<0.5	<0.2	
1354212	Soil	30	0.60	453	0.033	<1	1.62	0.014	0.06	0.2	0.04	6.6	<0.1	<0.05	5	0.5	<0.2	
1354214	Soil	7	0.42	493	0.012	<1	0.84	0.005	0.08	<0.1	<0.01	2.8	<0.1	<0.05	2	<0.5	<0.2	
1502456	Soil	9	0.12	381	0.011	<1	0.64	0.004	0.11	<0.1	0.01	1.5	<0.1	<0.05	2	<0.5	<0.2	
1502475	Soil	22	0.34	656	0.039	<1	1.14	0.008	0.06	0.1	0.02	3.0	<0.1	<0.05	3	<0.5	<0.2	
1502471	Soil	23	0.30	594	0.038	<1	1.27	0.010	0.10	<0.1	0.03	4.1	<0.1	<0.05	4	<0.5	<0.2	
1502472	Soil	14	0.13	329	0.017	<1	0.57	0.006	0.10	<0.1	0.01	2.1	<0.1	<0.05	2	<0.5	<0.2	
1502477	Soil	15	0.28	540	0.026	1	0.97	0.009	0.10	0.1	0.02	2.6	<0.1	<0.05	3	<0.5	<0.2	
1502473	Soil	27	0.36	525	0.047	<1	1.17	0.011	0.09	0.2	0.03	4.7	<0.1	<0.05	3	<0.5	<0.2	
1502455	Soil	6	0.07	992	0.003	<1	0.44	0.005	0.12	<0.1	0.01	3.2	<0.1	<0.05	<1	<0.5	<0.2	
1502476	Soil	21	0.35	771	0.037	<1	1.22	0.009	0.09	0.2	0.02	3.4	<0.1	<0.05	3	<0.5	<0.2	
1502478	Soil	5	0.09	956	<0.001	<1	0.37	0.005	0.19	0.2	0.10	3.0	0.1	<0.05	<1	2.8	<0.2	
1502470	Soil	22	0.30	585	0.038	1	1.28	0.010	0.09	<0.1	0.03	4.0	<0.1	<0.05	4	<0.5	<0.2	
1502457	Soil	7	0.09	369	0.006	<1	0.54	0.004	0.08	<0.1	<0.01	1.6	<0.1	<0.05	1	<0.5	<0.2	
1502474	Soil	25	0.35	494	0.044	<1	1.22	0.010	0.06	0.1	0.02	3.8	0.1	<0.05	4	<0.5	<0.2	
1502452	Soil	18	0.22	850	0.013	1	1.08	0.008	0.10	0.1	0.04	4.3	<0.1	<0.05	3	0.5	<0.2	
1502453	Soil	7	0.08	510	0.002	<1	0.61	0.006	0.13	<0.1	0.03	3.2	<0.1	<0.05	1	<0.5	<0.2	
1502451	Soil	18	0.24	1059	0.015	<1	1.14	0.009	0.11	0.2	0.04	3.3	<0.1	<0.05	3	<0.5	<0.2	
1502454	Soil	13	0.16	710	0.009	1	0.71	0.006	0.11	<0.1	0.06	4.0	<0.1	<0.05	2	<0.5	<0.2	
1502461	Soil	6	0.08	852	0.005	<1	0.55	0.004	0.09	<0.1	0.02	2.3	0.1	<0.05	1	<0.5	<0.2	
1502468	Soil	19	0.29	455	0.037	<1	0.98	0.007	0.09	0.1	0.01	3.1	<0.1	<0.05	3	<0.5	<0.2	
1502458	Soil	20	0.28	496	0.029	<1	1.23	0.007	0.08	<0.1	0.02	3.6	<0.1	<0.05	3	<0.5	<0.2	
1502466	Soil	3	0.04	150	0.001	<1	0.34	0.004	0.15	<0.1	<0.01	0.6	<0.1	<0.05	<1	<0.5	<0.2	
1502462	Soil	6	0.15	645	0.003	<1	0.61	0.008	0.15	<0.1	0.01	2.5	<0.1	<0.05	2	<0.5	<0.2	
1502465	Soil	11	0.06	618	0.002	<1	0.35	0.013	0.18	0.1	0.09	2.8	0.2	0.20	<1	1.1	<0.2	
1502469	Soil	22	0.32	666	0.036	1	1.28	0.009	0.09	0.1	0.02	3.9	<0.1	<0.05	4	<0.5	<0.2	
1502464	Soil	45	0.41	1043	0.009	<1	1.97	0.011	0.11	<0.1	0.04	11.2	0.1	<0.05	5	<0.5	<0.2	
1502467	Soil	29	0.42	516	0.048	1	1.65	0.009	0.07	0.1	0.03	5.6	<0.1	<0.05	5	<0.5	<0.2	
1502463	Soil	21	0.26	770	0.011	1	1.06	0.026	0.22	<0.1	0.03	5.2	0.1	<0.05	3	<0.5	<0.2	
1502459	Soil	25	0.34	541	0.033	<1	1.32	0.010	0.08	0.1	0.02	4.3	<0.1	<0.05	4	0.5	<0.2	



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Project: JPL
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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
		MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL	MDL
1502460	Soil	1.4	22.0	19.2	38	<0.1	17.8	4.3	272	1.62	5.2	8.6	11.5	22	<0.1	0.4	0.2	26	0.34	0.019	26	
1354255	Soil	1.0	136.2	16.6	72	0.1	22.3	10.9	463	2.94	9.0	5.2	4.7	26	0.1	0.7	0.3	53	0.47	0.046	18	
1354258	Soil	1.0	232.8	22.0	83	0.2	23.1	10.9	496	2.82	7.8	5.9	3.4	33	0.2	1.2	0.3	51	0.64	0.042	14	
1354257	Soil	1.1	168.9	18.7	67	0.1	21.5	10.9	490	2.75	8.6	2.7	3.5	34	0.2	0.7	0.3	48	0.65	0.045	14	
1354150	Soil	0.5	11.1	25.8	36	<0.1	2.6	2.9	454	0.98	1.6	0.5	16.9	16	0.2	<0.1	0.2	7	0.11	0.015	26	
1354253	Soil	0.9	119.8	16.6	79	0.1	21.1	12.3	547	2.93	7.2	3.9	4.5	26	0.3	0.5	0.3	53	0.61	0.043	16	
1354254	Soil	0.8	85.4	12.5	71	0.1	18.7	10.6	538	2.63	7.7	3.4	4.7	27	0.2	0.5	0.2	46	0.57	0.044	17	
1354256	Soil	0.9	153.3	14.7	69	0.2	23.2	10.7	522	2.58	7.8	4.7	3.0	43	0.3	0.8	0.2	47	0.92	0.057	15	
1354262	Soil	0.6	361.2	20.1	51	0.2	5.6	32.6	1209	1.11	3.3	4.2	11.5	11	0.2	0.4	0.3	5	0.08	0.011	35	
1354146	Soil	0.7	32.8	10.1	63	<0.1	17.7	6.6	245	3.35	39.4	3.0	13.9	17	<0.1	0.6	0.1	25	0.30	0.071	35	
1354148	Soil	1.0	22.5	16.7	46	<0.1	20.3	7.3	216	2.48	14.6	2.5	9.8	17	<0.1	0.7	0.2	36	0.23	0.028	23	
1354149	Soil	0.4	9.0	40.5	29	<0.1	5.9	1.5	125	0.86	6.5	0.9	28.7	15	0.1	0.2	0.3	5	0.09	0.017	75	
1354263	Soil	0.6	1225.9	8.1	114	0.1	24.7	12.3	370	3.38	7.5	4.1	4.5	22	0.3	0.5	0.3	58	0.33	0.035	14	
1354251	Soil	0.9	64.0	49.6	126	0.2	27.5	12.8	861	3.18	7.5	4.8	6.9	47	0.3	0.5	0.7	38	0.63	0.070	21	
1354266	Soil	1.2	307.2	53.4	205	0.8	7.4	7.7	485	3.14	6.6	54.2	6.1	24	1.4	0.4	1.0	10	0.62	0.020	13	
1354267	Soil	0.6	25.1	35.6	24	0.2	7.7	3.7	443	0.79	2.9	2.0	17.6	23	0.2	0.3	0.2	9	0.82	0.019	29	
1354265	Soil	1.6	540.9	31.2	51	0.2	2.1	2.5	103	1.46	1.7	9.5	7.1	10	0.2	0.3	0.2	3	0.08	0.012	19	
1354264	Soil	0.7	735.1	21.1	161	0.4	10.3	16.5	588	2.28	3.4	4.9	10.0	16	0.3	0.4	0.2	13	0.21	0.022	32	
1354269	Soil	1.0	158.0	11.5	64	0.1	22.5	9.8	380	2.46	9.2	2.9	4.4	41	0.2	0.7	0.2	47	0.94	0.043	15	
1354268	Soil	0.9	84.1	32.1	68	0.2	14.5	7.6	605	1.88	4.9	4.2	15.0	27	0.2	0.6	0.3	20	0.54	0.043	44	



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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1502460	Soil	22	0.25	696	0.014	1	1.18	0.009	0.11	0.1	0.02	4.0	<0.1	<0.05	3	<0.5	<0.2
1354255	Soil	29	0.71	405	0.044	<1	1.79	0.012	0.06	0.1	0.05	5.8	<0.1	<0.05	5	<0.5	<0.2
1354258	Soil	29	0.63	506	0.034	1	1.67	0.012	0.06	0.1	0.12	6.6	<0.1	<0.05	4	<0.5	<0.2
1354257	Soil	27	0.60	400	0.040	1	1.60	0.014	0.05	0.2	0.06	5.4	<0.1	<0.05	4	0.6	<0.2
1354150	Soil	4	0.10	366	<0.001	<1	0.34	0.004	0.15	<0.1	<0.01	3.0	<0.1	<0.05	<1	<0.5	<0.2
1354253	Soil	32	0.77	330	0.041	2	1.80	0.011	0.06	<0.1	0.04	6.4	<0.1	<0.05	5	<0.5	<0.2
1354254	Soil	26	0.61	373	0.039	1	1.56	0.013	0.05	0.1	0.05	5.0	<0.1	<0.05	5	<0.5	<0.2
1354256	Soil	26	0.60	450	0.038	2	1.59	0.014	0.05	0.2	0.07	5.2	<0.1	<0.05	4	<0.5	<0.2
1354262	Soil	4	0.05	573	0.003	<1	0.43	0.004	0.08	<0.1	0.07	1.8	<0.1	<0.05	<1	<0.5	<0.2
1354146	Soil	18	0.76	301	0.090	<1	1.37	0.005	0.46	<0.1	0.02	3.9	0.8	<0.05	3	<0.5	<0.2
1354148	Soil	25	0.36	346	0.025	<1	1.26	0.009	0.11	0.1	0.01	3.1	<0.1	<0.05	3	<0.5	<0.2
1354149	Soil	6	0.07	153	0.003	<1	0.45	0.003	0.14	<0.1	<0.01	3.5	<0.1	<0.05	1	<0.5	<0.2
1354263	Soil	34	0.88	431	0.041	<1	1.81	0.013	0.06	0.1	0.04	6.8	<0.1	<0.05	5	<0.5	<0.2
1354251	Soil	43	1.22	395	0.032	<1	1.59	0.015	0.11	<0.1	0.06	4.6	0.1	0.10	4	0.7	<0.2
1354266	Soil	6	0.13	439	0.003	<1	0.49	0.009	0.17	<0.1	0.42	2.1	<0.1	0.22	1	0.6	<0.2
1354267	Soil	6	0.12	565	0.004	<1	0.56	0.006	0.12	<0.1	0.06	2.7	<0.1	<0.05	1	<0.5	<0.2
1354265	Soil	2	0.04	418	0.001	<1	0.45	0.004	0.05	<0.1	0.15	1.7	<0.1	<0.05	<1	1.3	<0.2
1354264	Soil	8	0.15	440	0.005	<1	0.67	0.008	0.07	<0.1	0.05	2.8	<0.1	<0.05	1	<0.5	<0.2
1354269	Soil	24	0.49	481	0.052	<1	1.36	0.018	0.06	0.2	0.04	4.1	<0.1	<0.05	4	<0.5	<0.2
1354268	Soil	13	0.27	552	0.010	<1	0.86	0.009	0.13	<0.1	0.07	3.9	<0.1	<0.05	2	<0.5	<0.2



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Method	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
1502382	Soil	0.8	28.3	19.5	68	<0.1	20.8	8.6	382	2.18	8.5	7.3	6.0	39	0.2	0.8	0.2	44	0.55	0.039	21
REP 1502382	QC	0.7	31.2	20.3	68	0.1	22.7	9.1	411	2.29	8.3	14.4	6.2	41	0.2	0.9	0.2	48	0.58	0.041	23
1354363	Soil	0.7	18.6	16.2	36	<0.1	13.5	6.5	174	1.90	5.8	2.8	11.5	27	<0.1	0.5	0.2	27	0.17	0.029	20
REP 1354363	QC	0.7	18.2	16.3	36	<0.1	13.3	6.5	166	1.81	5.5	2.3	11.5	26	0.1	0.5	0.2	27	0.18	0.029	19
1502006	Soil	0.7	43.0	21.2	68	0.1	24.0	12.3	623	3.16	6.0	2.4	7.0	22	0.2	0.5	0.2	50	0.54	0.038	24
REP 1502006	QC	0.4	42.4	20.9	66	0.1	22.2	11.5	627	3.01	6.2	5.9	6.8	21	0.2	0.5	0.1	49	0.52	0.037	24
1502146	Soil	6.8	37.8	26.4	108	0.1	31.9	6.4	100	2.19	17.3	1.6	11.0	62	0.4	1.6	0.3	40	0.13	0.057	36
REP 1502146	QC	7.1	36.4	25.6	101	0.1	31.1	6.6	103	2.23	16.7	2.1	10.1	64	0.5	1.5	0.2	42	0.13	0.054	34
1354288	Soil	1.0	25.6	48.8	46	<0.1	15.1	5.0	807	1.64	15.0	1.8	22.5	11	0.2	0.5	0.3	19	0.13	0.013	44
REP 1354288	QC	0.9	24.4	48.6	47	<0.1	15.0	5.1	773	1.58	15.0	1.6	22.0	11	0.2	0.5	0.3	20	0.13	0.013	45
1502104	Soil	0.4	59.6	13.2	182	<0.1	51.1	32.1	1284	4.83	5.8	2.9	2.7	32	3.4	0.3	0.1	103	1.33	0.117	19
REP 1502104	QC	0.4	59.7	12.9	179	<0.1	51.0	32.6	1252	4.73	5.8	6.7	2.6	31	3.2	0.3	0.1	98	1.28	0.113	20
1502430	Soil	0.2	71.6	4.5	54	<0.1	20.1	25.7	833	4.83	1.5	1.7	0.8	26	<0.1	0.1	<0.1	110	4.25	0.044	5
REP 1502430	QC	0.2	74.0	4.5	55	<0.1	20.4	26.0	852	4.68	1.4	1.8	0.8	25	<0.1	0.1	<0.1	107	4.24	0.045	5
1502477	Soil	0.8	9.2	23.4	40	<0.1	8.8	3.9	157	1.33	4.2	0.6	8.5	21	0.2	0.3	0.2	30	0.27	0.030	42
REP 1502477	QC	0.8	9.0	23.3	40	<0.1	8.9	3.8	162	1.39	4.6	3.3	8.7	22	0.2	0.3	0.2	30	0.28	0.030	42
1354251	Soil	0.9	64.0	49.6	126	0.2	27.5	12.8	861	3.18	7.5	4.8	6.9	47	0.3	0.5	0.7	38	0.63	0.070	21
REP 1354251	QC	1.1	65.6	49.1	126	0.2	28.7	12.8	894	3.19	7.6	4.0	6.8	48	0.4	0.5	0.8	39	0.66	0.069	20
Reference Materials																					
STD DS10	Standard	15.1	156.4	146.7	365	1.9	75.2	13.6	896	2.83	46.8	66.1	7.2	64	2.6	8.7	11.9	47	1.09	0.074	19
STD DS10	Standard	15.1	154.1	145.9	366	1.9	77.4	13.5	886	2.85	46.5	63.1	7.1	62	2.6	8.6	11.6	45	1.02	0.075	18
STD DS10	Standard	14.8	153.4	146.4	350	1.9	75.1	12.5	898	2.92	42.2	82.7	7.5	76	2.2	9.3	11.7	49	1.06	0.074	20
STD DS10	Standard	15.0	150.1	145.2	367	1.9	77.1	12.8	915	2.78	44.9	73.4	7.2	63	2.5	8.6	11.5	44	0.99	0.077	18
STD DS10	Standard	14.0	151.2	149.1	364	1.8	71.0	12.8	866	2.65	43.9	95.7	7.6	70	2.2	9.1	11.9	42	1.02	0.072	18
STD DS10	Standard	14.9	168.0	151.4	396	2.0	81.2	13.2	891	2.87	48.0	67.8	8.1	72	2.6	10.1	13.7	45	1.06	0.069	20
STD DS10	Standard	15.3	154.4	151.2	371	1.9	76.4	13.8	908	2.83	45.3	73.5	8.1	77	2.6	10.4	12.5	46	1.10	0.075	21
STD DS10	Standard	15.3	161.5	151.1	373	1.9	76.9	13.4	907	2.83	44.4	82.8	7.3	65	2.6	8.8	12.0	48	1.14	0.075	19
STD DS10	Standard	15.5	157.7	153.7	356	1.8	74.7	13.3	898	2.81	44.7	88.3	7.9	80	2.5	9.7	12.1	47	1.11	0.081	21



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Report Date: December 22, 2015

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QUALITY CONTROL REPORT

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
1502382	Soil	24	0.43	597	0.038	2	1.52	0.015	0.09	0.2	0.05	4.7	<0.1	<0.05	5	1.1	<0.2
REP 1502382	QC	25	0.46	624	0.049	2	1.54	0.015	0.10	0.3	0.05	4.7	<0.1	<0.05	5	0.8	<0.2
1354363	Soil	17	0.25	992	0.023	<1	0.97	0.010	0.08	<0.1	0.04	4.0	<0.1	<0.05	2	<0.5	<0.2
REP 1354363	QC	17	0.24	946	0.022	<1	0.99	0.009	0.08	<0.1	0.05	4.0	<0.1	<0.05	3	<0.5	<0.2
1502006	Soil	27	0.72	296	0.023	<1	1.59	0.013	0.04	0.1	0.05	7.3	<0.1	<0.05	5	<0.5	<0.2
REP 1502006	QC	28	0.69	304	0.022	<1	1.59	0.012	0.04	0.1	0.04	7.3	<0.1	<0.05	5	0.5	<0.2
1502146	Soil	24	0.23	899	0.014	<1	1.00	0.005	0.12	0.1	0.05	4.3	0.1	<0.05	3	1.9	<0.2
REP 1502146	QC	25	0.20	850	0.013	<1	0.92	0.005	0.11	0.2	0.06	4.1	0.1	<0.05	3	1.5	<0.2
1354288	Soil	14	0.22	274	0.013	<1	0.79	0.005	0.17	<0.1	0.02	4.0	0.2	<0.05	2	<0.5	<0.2
REP 1354288	QC	15	0.23	277	0.013	<1	0.80	0.005	0.17	<0.1	0.02	4.0	0.2	<0.05	2	<0.5	<0.2
1502104	Soil	104	1.29	336	0.023	1	2.98	0.034	0.07	<0.1	0.05	17.8	0.1	<0.05	9	<0.5	<0.2
REP 1502104	QC	99	1.28	335	0.022	1	2.91	0.032	0.06	<0.1	0.05	16.9	0.1	<0.05	9	<0.5	<0.2
1502430	Soil	32	1.70	67	0.002	<1	2.38	0.006	0.01	<0.1	0.02	19.2	<0.1	<0.05	7	<0.5	<0.2
REP 1502430	QC	32	1.59	70	0.002	<1	2.34	0.008	0.01	<0.1	0.01	19.4	<0.1	<0.05	7	<0.5	<0.2
1502477	Soil	15	0.28	540	0.026	1	0.97	0.009	0.10	0.1	0.02	2.6	<0.1	<0.05	3	<0.5	<0.2
REP 1502477	QC	15	0.28	526	0.025	<1	1.00	0.009	0.11	0.2	0.02	2.5	<0.1	<0.05	3	<0.5	<0.2
1354251	Soil	43	1.22	395	0.032	<1	1.59	0.015	0.11	<0.1	0.06	4.6	0.1	0.10	4	0.7	<0.2
REP 1354251	QC	43	1.22	396	0.032	1	1.60	0.012	0.11	<0.1	0.08	4.8	0.1	0.10	5	1.1	<0.2
Reference Materials																	
STD DS10	Standard	56	0.82	370	0.079	9	1.05	0.066	0.35	3.3	0.29	3.1	5.3	0.26	4	2.5	5.1
STD DS10	Standard	55	0.74	359	0.072	7	1.03	0.060	0.34	3.3	0.27	2.9	5.3	0.29	4	2.5	4.9
STD DS10	Standard	59	0.77	357	0.086	6	1.10	0.060	0.34	3.1	0.29	3.3	5.1	0.23	4	1.9	4.6
STD DS10	Standard	55	0.77	358	0.074	7	1.07	0.066	0.32	3.2	0.28	2.9	5.2	0.26	4	2.4	5.0
STD DS10	Standard	53	0.79	349	0.076	7	1.04	0.076	0.34	3.4	0.31	3.0	5.1	0.27	4	2.2	5.4
STD DS10	Standard	57	0.79	361	0.084	6	1.07	0.057	0.34	2.9	0.28	3.1	5.3	0.20	5	3.0	5.1
STD DS10	Standard	57	0.79	380	0.088	7	1.18	0.061	0.36	3.2	0.27	3.1	5.3	0.25	5	3.1	5.0
STD DS10	Standard	55	0.77	372	0.078	7	1.09	0.060	0.35	3.4	0.30	3.1	5.4	0.28	4	2.5	5.2
STD DS10	Standard	61	0.83	401	0.089	9	1.17	0.065	0.35	3.1	0.30	3.5	5.3	0.20	4	2.3	5.1



QUALITY CONTROL REPORT

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		AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
STD OXC129	Standard	1.3	28.5	6.1	43	<0.1	80.0	21.5	444	3.17	<0.5	184.5	1.8	189	<0.1	<0.1	<0.1	54	0.67	0.102	13
STD OXC129	Standard	1.3	27.5	6.2	41	<0.1	80.1	20.2	437	3.14	0.7	195.4	1.7	182	<0.1	<0.1	<0.1	54	0.63	0.091	13
STD OXC129	Standard	1.2	26.2	6.2	40	<0.1	76.1	19.6	426	3.11	<0.5	190.5	1.8	190	<0.1	<0.1	<0.1	54	0.72	0.097	13
STD OXC129	Standard	1.3	27.6	6.1	42	<0.1	81.8	21.1	426	3.10	0.9	197.3	1.7	191	<0.1	<0.1	<0.1	53	0.62	0.105	13
STD OXC129	Standard	1.2	26.8	6.4	40	<0.1	76.5	19.6	409	2.99	0.8	197.7	1.8	182	<0.1	<0.1	<0.1	50	0.63	0.099	12
STD OXC129	Standard	1.0	27.6	6.4	44	<0.1	82.1	21.7	445	3.19	<0.5	189.2	1.9	200	<0.1	<0.1	<0.1	55	0.73	0.092	13
STD OXC129	Standard	1.1	29.3	6.9	45	<0.1	83.8	20.6	432	3.29	<0.5	202.9	1.9	211	<0.1	<0.1	<0.1	54	0.75	0.105	14
STD OXC129	Standard	1.4	28.4	6.3	44	<0.1	84.3	21.9	420	3.12	0.6	198.0	1.8	198	<0.1	<0.1	<0.1	55	0.68	0.097	13
STD OXC129	Standard	1.2	28.8	6.9	44	<0.1	80.7	20.1	421	3.04	<0.5	200.6	1.8	211	<0.1	<0.1	<0.1	53	0.78	0.099	13
STD DS10 Expected		15.1	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	91.9	7.5	67.1	2.62	9	11.65	43	1.0625	0.0765	17.5
STD OXC129 Expected		1.3	28	6.3	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.665	0.102	13
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	4	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	3	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	3	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	3	<0.01	<0.001	<1



QUALITY CONTROL REPORT

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		AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD OXC129	Standard	53	1.59	50	0.401	<1	1.54	0.607	0.36	<0.1	<0.01	0.8	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	52	1.57	49	0.353	2	1.45	0.607	0.36	<0.1	<0.01	0.9	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	54	1.46	48	0.392	<1	1.55	0.549	0.33	<0.1	<0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	53	1.50	50	0.381	<1	1.55	0.595	0.36	<0.1	<0.01	1.0	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	50	1.58	46	0.374	<1	1.52	0.581	0.36	<0.1	<0.01	1.0	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	56	1.55	49	0.401	<1	1.60	0.571	0.36	<0.1	<0.01	1.3	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	53	1.70	51	0.387	1	1.81	0.654	0.35	<0.1	<0.01	1.2	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	54	1.52	51	0.383	1	1.53	0.555	0.37	<0.1	<0.01	1.0	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	52	1.56	51	0.388	<1	1.61	0.557	0.37	<0.1	<0.01	1.4	<0.1	<0.05	6	<0.5	<0.2
STD DS10 Expected		54.6	0.775	359	0.0817		1.0755	0.067	0.338	3.32	0.3	3	5.1	0.29	4.5	2.3	5.01
STD OXC129 Expected		52	1.545	50	0.4	1	1.58	0.6	0.37			1.1			5.6		
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



BUREAU VERITAS MINERAL LABORATORIES
Canada

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Bureau Veritas Commodities Canada Ltd.
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Client: Spere Exploration Inc.
Box 1381
Dawson City YT Y0B 1G0 CANADA

Submitted By: Morgan Fraughton
Receiving Lab: Canada-Whitehorse
Received: October 16, 2015
Report Date: December 11, 2015
Page: 1 of 11

CERTIFICATE OF ANALYSIS

WHI15000230.1

CLIENT JOB INFORMATION

Project: JPL
Shipment ID:
P.O. Number
Number of Samples: 285

SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days
DISP-RJT-SOIL Immediate Disposal of Soil Reject

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

Invoice To: Spere Exploration Inc.
Box 1381
Dawson City YT Y0B 1G0
CANADA

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	285	Dry at 60C			WHI
SS80	285	Dry at 60C sieve 100g to -80 mesh			WHI
AQ201	284	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
SHP01	285	Per sample shipping charges for branch shipments			WHI

ADDITIONAL COMMENTS



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



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

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Client: **Spere Exploration Inc.**
Box 1381
Dawson City YT Y0B 1G0 CANADA

Project: JPL
Report Date: December 11, 2015

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI15000230.1

Method Analyte	AQ201																			
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1354252	Soil	0.7	35.3	10.2	62	<0.1	14.8	8.4	641	2.14	6.3	2.3	3.0	29	0.3	0.3	44	0.72	0.062	12
1354364	Soil	1.0	6.0	18.7	22	0.1	6.8	2.7	107	1.53	4.2	3.9	5.7	20	<0.1	0.3	25	0.11	0.026	14
1354261	Soil	0.7	77.1	28.4	45	0.1	10.6	5.7	389	1.33	5.3	5.3	8.8	12	0.2	0.5	15	0.15	0.016	17
1354259	Soil	3.3	160.8	35.5	96	0.5	38.1	11.0	407	2.65	9.6	8.0	4.6	27	0.2	1.7	52	0.45	0.048	16
1354260	Soil	1.4	141.6	55.0	87	0.4	24.1	11.8	494	2.83	11.3	17.8	4.7	26	0.3	1.2	47	0.43	0.043	15
1354134	Soil	0.9	147.5	9.5	169	0.5	28.3	24.4	1856	4.44	6.7	15.0	5.0	16	0.5	0.5	63	1.91	0.051	11
1354136	Soil	0.9	263.9	14.2	73	0.2	22.3	10.6	464	2.86	7.7	12.1	5.0	26	0.2	0.6	46	0.58	0.044	15
1354137	Soil	1.0	173.1	10.0	70	0.1	23.6	11.1	558	2.50	7.7	1.7	3.6	39	0.3	0.6	45	0.97	0.050	14
1354135	Soil	0.9	128.8	11.6	71	0.1	24.9	11.1	511	2.70	10.6	7.6	3.8	32	0.2	0.7	49	0.68	0.058	15
1354133	Soil	0.7	382.0	13.8	141	0.4	47.6	31.7	1331	9.14	32.1	6.8	0.8	28	0.6	0.3	108	0.35	0.043	4
1354140	Soil	0.9	47.9	17.4	56	0.2	26.7	10.8	522	2.48	9.0	2.2	4.2	42	0.1	0.8	46	0.92	0.052	18
1354138	Soil	1.0	104.8	10.3	55	0.1	22.9	12.6	523	2.79	9.8	3.5	3.9	34	0.3	0.6	50	0.79	0.049	15
1354139	Soil	1.0	93.1	14.1	73	0.1	31.6	19.5	852	3.46	8.4	1.0	3.2	31	0.4	0.6	68	0.76	0.052	13
1354141	Soil	1.0	45.7	12.7	60	0.1	24.9	12.1	602	2.71	9.3	2.3	4.5	45	0.2	0.8	49	0.93	0.052	18
1354142	Soil	0.9	41.3	14.3	57	0.1	26.1	10.7	478	2.56	9.6	4.1	4.8	34	<0.1	0.7	50	0.59	0.052	18
1354144	Soil	0.5	19.8	11.9	60	<0.1	29.3	17.6	733	3.53	5.7	<0.5	7.8	21	<0.1	0.3	58	0.65	0.110	29
1354143	Soil	<0.1	11.6	36.7	48	<0.1	6.7	6.8	255	1.48	1.8	<0.5	26.5	14	0.1	0.1	9	0.51	0.050	46
1354409	Soil	0.8	234.2	20.3	92	0.1	6.5	10.6	214	2.22	7.4	2.5	11.1	17	0.2	0.4	12	0.09	0.030	28
1463199	Soil	1.5	16.8	20.7	40	0.1	12.7	6.6	198	2.93	6.7	1.1	8.5	31	<0.1	0.4	37	0.32	0.033	19
1463188	Soil	0.2	79.8	23.6	86	0.1	4.1	4.7	286	1.10	5.8	5.8	22.6	8	0.3	0.2	6	0.08	0.028	95
1463187	Soil	1.2	409.7	14.5	98	0.2	12.0	8.0	236	3.09	8.6	1.9	3.3	9	0.2	0.4	36	0.11	0.022	9
1354411	Soil	1.3	82.2	15.9	68	0.7	14.1	6.4	256	2.89	13.2	6.3	5.3	14	<0.1	0.5	49	0.08	0.021	12
1354410	Soil	0.9	267.2	28.7	63	0.2	5.2	6.2	88	2.83	6.5	8.9	21.6	13	<0.1	0.3	10	0.03	0.031	31
1354408	Soil	0.5	306.0	7.3	304	0.1	34.5	36.5	1090	6.99	6.5	4.4	1.4	20	0.4	0.4	115	0.47	0.020	7
1463198	Soil	0.4	14.8	16.6	33	<0.1	7.5	3.6	194	1.29	4.1	6.6	12.9	23	<0.1	0.3	16	0.24	0.028	27
1354418	Soil	0.6	34.1	19.4	59	<0.1	15.3	8.0	299	2.01	7.3	<0.5	9.5	11	<0.1	0.4	30	0.22	0.049	31
1463197	Soil	0.2	8.0	15.4	20	<0.1	3.7	1.6	139	0.68	1.7	1.9	17.9	13	0.2	<0.1	5	0.11	0.023	33
1354414	Soil	0.9	73.4	6.4	57	<0.1	35.3	17.7	357	4.53	6.4	<0.5	4.1	29	<0.1	0.4	62	0.40	0.038	15
1354416	Soil	0.7	152.3	16.3	157	0.3	17.8	32.3	1340	4.94	5.8	4.6	4.4	16	0.2	0.4	80	0.48	0.049	12
1354419	Soil	0.7	1271.3	28.2	159	<0.1	12.0	16.4	779	6.66	11.4	5.3	3.3	15	0.7	0.1	88	0.19	0.043	15



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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se	Te	
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
1354252	Soil	22	0.62	206	0.031	2	1.14	0.011	0.03	0.2	0.03	3.9	<0.1	<0.05	3	<0.5	<0.2	
1354364	Soil	13	0.18	404	0.021	1	0.64	0.043	0.10	0.1	<0.01	1.1	<0.1	0.21	2	<0.5	<0.2	
1354261	Soil	10	0.15	405	0.011	1	0.49	0.007	0.06	<0.1	0.04	2.5	<0.1	<0.05	1	<0.5	<0.2	
1354259	Soil	53	0.57	509	0.047	3	1.48	0.014	0.06	0.3	0.17	6.0	<0.1	<0.05	4	<0.5	<0.2	
1354260	Soil	28	0.49	450	0.036	2	1.34	0.014	0.07	0.2	0.20	5.5	<0.1	<0.05	4	<0.5	<0.2	
1354134	Soil	42	0.69	432	0.006	<1	1.17	0.006	0.07	<0.1	0.07	12.4	<0.1	<0.05	3	<0.5	<0.2	
1354136	Soil	25	0.54	373	0.033	1	1.41	0.012	0.05	0.1	0.02	6.4	<0.1	<0.05	4	<0.5	<0.2	
1354137	Soil	27	0.55	400	0.035	2	1.32	0.013	0.05	0.2	0.05	5.0	<0.1	<0.05	4	<0.5	<0.2	
1354135	Soil	25	0.54	384	0.048	<1	1.26	0.018	0.06	0.2	0.03	4.7	<0.1	<0.05	4	<0.5	<0.2	
1354133	Soil	89	2.44	119	0.011	<1	3.30	0.007	0.05	<0.1	0.06	11.2	<0.1	<0.05	9	2.4	<0.2	
1354140	Soil	26	0.53	447	0.038	2	1.42	0.013	0.05	0.2	0.03	4.6	<0.1	<0.05	4	<0.5	<0.2	
1354138	Soil	27	0.51	371	0.036	2	1.37	0.013	0.05	0.2	0.03	4.9	<0.1	<0.05	4	<0.5	<0.2	
1354139	Soil	38	1.10	364	0.045	1	1.95	0.011	0.05	0.1	0.02	6.5	<0.1	<0.05	5	<0.5	<0.2	
1354141	Soil	27	0.58	424	0.044	2	1.51	0.015	0.06	0.2	0.03	4.5	<0.1	<0.05	4	<0.5	<0.2	
1354142	Soil	27	0.51	386	0.050	1	1.49	0.016	0.06	0.2	0.04	4.9	<0.1	<0.05	4	<0.5	<0.2	
1354144	Soil	67	1.51	152	0.027	1	2.11	0.004	0.07	<0.1	0.01	7.6	<0.1	<0.05	6	<0.5	<0.2	
1354143	Soil	6	1.02	320	0.021	1	0.94	0.004	0.19	<0.1	<0.01	2.7	0.2	<0.05	3	<0.5	<0.2	
1354409	Soil	9	0.25	290	0.005	<1	0.98	0.008	0.10	<0.1	<0.01	2.4	<0.1	0.11	2	<0.5	<0.2	
1463199	Soil	25	0.39	595	0.019	<1	1.34	0.045	0.12	<0.1	0.01	3.7	<0.1	0.21	4	<0.5	<0.2	
1463188	Soil	5	0.21	265	0.003	<1	0.64	0.003	0.06	<0.1	0.03	2.4	<0.1	<0.05	1	<0.5	<0.2	
1463187	Soil	24	0.49	218	0.016	<1	1.27	0.007	0.04	<0.1	<0.01	4.6	<0.1	<0.05	4	0.7	<0.2	
1354411	Soil	28	0.47	258	0.037	<1	1.77	0.006	0.07	0.1	0.02	2.8	<0.1	<0.05	5	<0.5	<0.2	
1354410	Soil	8	0.15	303	0.003	<1	0.78	0.014	0.19	<0.1	0.02	3.3	<0.1	0.31	2	<0.5	<0.2	
1354408	Soil	68	1.74	293	0.009	<1	2.67	0.016	0.04	<0.1	0.05	16.8	<0.1	<0.05	7	<0.5	<0.2	
1463198	Soil	11	0.17	840	0.008	<1	0.71	0.012	0.09	<0.1	0.04	3.5	<0.1	<0.05	2	<0.5	<0.2	
1354418	Soil	22	0.49	289	0.012	<1	1.29	0.005	0.05	<0.1	0.01	4.6	<0.1	<0.05	3	<0.5	<0.2	
1463197	Soil	4	0.06	454	0.003	<1	0.34	0.004	0.08	<0.1	0.02	1.7	<0.1	<0.05	<1	<0.5	<0.2	
1354414	Soil	51	0.92	489	0.046	<1	2.64	0.033	0.06	<0.1	0.01	6.8	<0.1	<0.05	7	0.6	<0.2	
1354416	Soil	22	1.47	355	0.007	<1	2.35	0.010	0.04	<0.1	0.07	9.8	<0.1	<0.05	6	<0.5	<0.2	
1354419	Soil	9	1.41	268	0.004	<1	2.21	0.007	0.05	<0.1	0.02	16.1	<0.1	<0.05	7	<0.5	<0.2	



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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
1354421	Soil	0.7	105.9	6.8	323	<0.1	18.8	32.5	1184	3.96	5.2	1.5	1.7	12	2.4	0.4	0.1	89	0.21	0.017	6
1354422	Soil	1.4	2253.2	9.2	74	3.1	8.3	17.4	788	3.19	6.9	4.7	12.4	8	0.4	0.2	0.8	14	0.33	0.087	41
1354415	Soil	1.0	48.3	19.0	63	0.2	8.1	8.9	586	2.05	13.4	<0.5	17.2	15	0.2	0.4	0.2	5	0.34	0.073	46
1354420	Soil	1.2	330.1	12.6	241	0.2	22.1	32.2	1557	6.05	7.8	6.0	1.2	13	2.5	0.1	0.7	100	0.35	0.041	6
1354417	Soil	1.4	144.8	41.0	197	0.2	26.4	31.9	1014	6.01	22.8	1.8	1.4	8	0.4	0.4	1.3	153	0.13	0.031	4
1463200	Soil	0.8	59.9	11.4	62	0.2	14.6	9.0	280	2.72	8.9	4.3	6.4	25	0.1	0.4	0.5	38	0.43	0.038	19
1354413	Soil	0.4	8.4	22.1	17	<0.1	4.9	3.0	65	0.99	2.7	<0.5	9.4	12	<0.1	0.3	0.2	13	0.05	0.012	19
1463192	Soil	1.2	16.1	20.1	65	<0.1	7.7	6.4	261	2.04	2.3	<0.5	15.6	18	0.2	0.3	0.2	13	0.13	0.028	27
1463193	Soil	1.0	12.9	22.1	25	<0.1	5.8	5.1	278	1.14	2.5	0.7	14.0	17	<0.1	0.2	0.2	7	0.12	0.035	22
1463196	Soil	1.7	8.6	36.4	33	<0.1	6.0	7.2	567	2.17	2.8	2.2	11.5	35	0.1	0.2	0.2	6	0.16	0.086	31
1463195	Soil	2.2	10.5	34.7	25	0.2	4.8	4.2	95	2.93	3.8	1.0	21.7	51	<0.1	0.3	0.2	7	0.04	0.036	29
1463190	Soil	0.8	8.9	10.9	24	<0.1	8.4	4.4	131	1.56	5.5	0.5	4.4	12	<0.1	0.4	0.1	33	0.11	0.008	13
1463191	Soil	0.5	9.8	20.9	27	<0.1	4.0	4.3	106	1.15	2.3	<0.5	10.2	10	<0.1	0.3	0.3	8	0.04	0.014	19
1463194	Soil	1.0	14.2	19.7	38	<0.1	12.1	8.0	268	2.22	6.8	1.2	9.9	14	<0.1	0.4	0.2	38	0.10	0.019	16
1463189	Soil	1.0	10.7	21.3	11	0.3	4.2	3.3	47	5.54	4.4	3.0	24.1	96	<0.1	0.4	0.2	12	0.05	0.073	27
1354412	Soil	0.8	10.6	39.8	27	<0.1	5.2	3.1	108	2.12	4.5	<0.5	23.1	43	<0.1	0.4	0.2	15	0.05	0.038	69
1463183	Soil	0.7	41.0	12.9	41	0.1	11.5	4.9	215	2.25	5.9	1.6	10.0	25	<0.1	0.4	0.5	25	0.55	0.032	30
1463179	Soil	0.7	64.6	7.3	66	<0.1	30.7	16.4	679	3.30	6.1	7.0	3.1	27	0.1	0.5	0.2	63	0.92	0.060	10
1463184	Soil	0.6	96.5	5.7	40	<0.1	6.5	7.6	325	3.73	6.5	<0.5	2.6	16	<0.1	0.2	0.2	21	0.42	0.059	6
1463182	Soil	0.8	47.4	9.3	51	0.2	24.3	12.2	942	2.83	6.8	4.1	3.6	42	0.2	0.6	0.2	52	0.92	0.030	15
1463181	Soil	0.6	68.0	6.6	72	<0.1	19.3	19.1	509	3.69	5.8	2.3	2.6	24	<0.1	0.5	<0.1	82	0.39	0.029	8
1463186	Soil	1.4	50.4	255.3	415	0.5	9.7	6.0	389	2.66	17.9	3.7	15.0	16	0.6	0.4	0.8	11	0.30	0.055	34
1463185	Soil	1.1	45.8	11.1	47	<0.1	15.0	7.6	337	2.47	7.7	1.8	8.5	22	<0.1	0.5	0.5	34	0.27	0.018	26
1463180	Soil	1.0	34.8	11.3	61	<0.1	18.6	9.5	583	2.64	6.5	6.2	4.8	28	0.2	0.5	0.2	44	0.53	0.064	17
1463178	Soil	0.6	36.2	26.4	86	0.1	12.2	9.7	648	2.51	3.8	1.4	17.8	27	0.2	0.3	0.1	30	1.27	0.065	32
1463157	Soil	0.8	69.1	9.7	45	0.2	16.8	8.1	347	2.57	5.7	1.7	7.1	28	0.1	0.4	0.4	33	0.66	0.045	26
1463155	Soil	0.4	86.0	10.3	154	0.1	23.1	23.7	859	4.27	4.8	2.4	2.1	26	0.5	0.4	0.5	90	1.51	0.051	8
1463156	Soil	0.8	126.5	7.2	54	0.2	13.8	9.2	374	3.00	6.1	0.8	6.0	21	<0.1	0.4	0.3	32	1.17	0.059	19
1463161	Soil	0.7	58.6	10.8	57	0.1	28.1	13.0	844	2.83	6.6	3.2	2.4	57	0.1	0.8	0.2	57	1.33	0.065	13
1463159	Soil	0.4	38.4	8.6	45	0.1	18.4	7.7	507	1.95	5.9	2.5	1.6	76	0.2	0.8	0.2	34	2.20	0.069	12



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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1354421	Soil	24	1.52	213	0.056	<1	2.33	0.005	0.03	<0.1	0.01	6.6	<0.1	<0.05	6	<0.5	<0.2
1354422	Soil	13	0.49	248	0.004	<1	1.17	0.004	0.05	<0.1	0.03	4.0	<0.1	<0.05	3	0.9	<0.2
1354415	Soil	4	0.22	265	0.005	<1	0.61	0.004	0.11	<0.1	0.03	1.9	<0.1	<0.05	2	<0.5	<0.2
1354420	Soil	30	1.58	373	0.002	<1	2.70	0.008	0.05	<0.1	0.08	19.5	<0.1	<0.05	7	0.5	<0.2
1354417	Soil	51	2.32	270	0.021	<1	3.28	0.005	0.03	<0.1	0.02	22.5	<0.1	<0.05	9	<0.5	<0.2
1463200	Soil	21	0.47	482	0.027	1	1.50	0.014	0.06	0.1	0.05	5.3	<0.1	<0.05	4	<0.5	<0.2
1354413	Soil	10	0.15	537	0.007	<1	0.65	0.006	0.11	<0.1	<0.01	1.9	<0.1	<0.05	2	<0.5	<0.2
1463192	Soil	8	0.11	600	0.006	<1	0.59	0.007	0.08	<0.1	0.01	5.4	<0.1	<0.05	2	<0.5	<0.2
1463193	Soil	6	0.05	599	0.003	<1	0.40	0.009	0.06	<0.1	0.01	3.2	<0.1	<0.05	1	<0.5	<0.2
1463196	Soil	5	0.07	339	0.004	<1	0.44	0.038	0.12	<0.1	0.02	1.4	<0.1	0.21	1	<0.5	<0.2
1463195	Soil	5	0.06	312	0.005	<1	0.50	0.086	0.15	<0.1	0.03	1.6	<0.1	0.42	1	<0.5	<0.2
1463190	Soil	16	0.26	484	0.026	<1	0.85	0.010	0.06	<0.1	0.01	1.9	<0.1	<0.05	3	<0.5	<0.2
1463191	Soil	5	0.08	390	0.002	<1	0.48	0.004	0.10	<0.1	<0.01	3.4	<0.1	<0.05	1	<0.5	<0.2
1463194	Soil	24	0.31	593	0.023	<1	1.45	0.012	0.09	0.1	0.01	3.1	<0.1	<0.05	4	<0.5	<0.2
1463189	Soil	9	0.08	94	0.004	<1	0.61	0.441	0.25	<0.1	0.13	1.6	<0.1	1.61	2	<0.5	<0.2
1354412	Soil	8	0.08	179	0.002	<1	0.58	0.018	0.13	<0.1	<0.01	1.5	<0.1	0.23	2	<0.5	<0.2
1463183	Soil	17	0.40	559	0.019	<1	1.55	0.010	0.08	<0.1	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
1463179	Soil	42	1.43	194	0.040	<1	1.80	0.017	0.04	0.2	0.02	5.6	<0.1	<0.05	5	<0.5	<0.2
1463184	Soil	10	0.82	409	0.008	<1	2.02	0.007	0.04	<0.1	<0.01	3.7	<0.1	<0.05	6	<0.5	<0.2
1463182	Soil	24	0.66	639	0.034	1	1.71	0.017	0.06	0.2	0.02	4.8	<0.1	<0.05	5	<0.5	<0.2
1463181	Soil	20	1.45	236	0.073	<1	2.11	0.011	0.03	0.1	0.02	5.5	<0.1	<0.05	6	<0.5	<0.2
1463186	Soil	8	0.32	257	0.005	<1	0.80	0.006	0.04	<0.1	0.25	4.1	<0.1	<0.05	3	<0.5	<0.2
1463185	Soil	21	0.42	456	0.033	<1	1.40	0.011	0.07	0.1	0.01	4.0	0.1	<0.05	4	<0.5	<0.2
1463180	Soil	22	0.67	228	0.040	<1	1.40	0.025	0.07	0.2	0.03	4.6	<0.1	<0.05	4	<0.5	<0.2
1463178	Soil	14	0.79	308	0.018	<1	1.13	0.009	0.15	<0.1	0.04	5.5	0.2	<0.05	4	<0.5	<0.2
1463157	Soil	20	0.58	557	0.020	<1	1.50	0.012	0.06	0.1	0.03	4.4	<0.1	<0.05	4	<0.5	<0.2
1463155	Soil	36	1.78	242	0.014	<1	2.37	0.015	0.04	<0.1	0.10	11.3	<0.1	<0.05	7	<0.5	<0.2
1463156	Soil	17	0.62	400	0.015	<1	1.45	0.012	0.07	0.1	0.03	5.6	<0.1	<0.05	4	<0.5	<0.2
1463161	Soil	34	0.88	435	0.030	1	1.55	0.016	0.04	0.1	0.04	6.0	<0.1	0.05	4	<0.5	<0.2
1463159	Soil	18	0.41	519	0.024	3	1.03	0.016	0.04	0.1	0.05	3.2	<0.1	0.07	3	0.6	<0.2



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Method Analyte	Unit	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1463160	Soil	1.0	47.6	17.2	67	0.1	25.1	10.6	493	2.72	9.5	2.3	5.2	26	0.2	0.8	0.2	47	0.63	0.059	19
1463154	Soil	0.3	114.2	3.9	78	0.1	22.6	25.3	778	4.08	2.8	1.4	1.5	17	<0.1	0.5	<0.1	82	0.47	0.032	8
1463165	Soil	0.9	38.6	13.0	67	<0.1	74.0	14.3	526	3.79	20.0	15.9	4.0	35	<0.1	1.5	0.1	68	0.65	0.053	15
1463162	Soil	0.9	32.0	13.6	51	0.1	21.9	11.5	850	2.51	8.4	1.8	5.2	48	0.3	0.6	0.2	40	0.97	0.055	21
1463163	Soil	0.8	43.6	18.7	70	0.1	53.9	15.7	652	3.46	10.0	1.0	5.5	35	0.2	1.0	0.3	52	0.88	0.071	20
1463158	Soil	0.6	47.6	7.0	39	0.1	16.9	7.1	576	1.66	5.6	1.0	1.1	91	0.2	0.7	0.2	26	2.46	0.059	10
1463164	Soil	0.7	26.5	9.3	59	0.1	28.3	10.3	370	2.47	9.6	<0.5	3.0	42	0.1	0.7	0.1	47	0.97	0.069	14
1463169	Soil	0.7	39.9	20.9	74	<0.1	22.2	10.8	446	2.77	6.0	1.4	11.8	17	0.1	0.4	0.2	45	0.33	0.034	39
1463168	Soil	0.6	92.2	23.8	130	<0.1	26.4	28.2	567	5.87	3.8	4.2	2.2	23	0.2	0.3	0.1	132	0.37	0.052	8
1463170	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1463171	Soil	0.6	20.1	35.6	44	<0.1	18.1	6.1	302	1.76	6.1	<0.5	20.5	16	<0.1	0.6	0.2	22	0.18	0.025	61
1463176	Soil	0.8	39.2	25.6	75	0.1	40.2	13.5	587	2.84	6.4	1.1	5.9	41	0.2	0.6	0.4	34	1.16	0.082	18
1463177	Soil	0.6	83.8	22.2	101	0.1	16.4	10.8	843	2.79	3.1	2.1	8.6	23	0.2	0.3	0.2	36	0.86	0.058	29
1463172	Soil	0.9	31.1	16.6	56	<0.1	56.7	18.4	663	3.10	11.0	1.4	8.6	19	<0.1	1.0	0.2	47	0.30	0.037	26
1463175	Soil	0.9	33.7	9.5	61	0.1	34.7	10.5	504	2.52	10.4	4.4	3.4	40	0.3	0.9	0.2	48	0.80	0.064	15
1463166	Soil	1.2	39.7	13.1	73	0.1	49.3	13.6	462	3.08	11.9	3.3	5.3	32	0.1	1.0	0.2	55	0.55	0.051	18
1463173	Soil	1.2	35.9	17.8	66	0.1	45.7	14.0	523	3.11	11.3	5.4	5.9	30	0.2	0.8	0.1	52	0.51	0.063	20
1463167	Soil	0.2	10.5	30.2	39	<0.1	5.4	3.1	111	1.16	2.0	1.9	25.6	10	<0.1	0.3	0.2	7	0.11	0.012	86
1463174	Soil	1.0	47.5	17.5	85	<0.1	85.2	20.0	972	3.63	11.1	1.8	6.1	30	0.4	1.1	0.2	62	0.58	0.058	19
1354332	Soil	0.7	37.7	33.5	99	0.1	40.7	17.6	1075	4.57	34.8	1.4	10.7	36	0.1	1.4	0.1	45	1.72	0.128	28
1354334	Soil	0.3	15.0	19.6	44	<0.1	12.7	4.3	134	1.55	6.0	2.5	10.6	19	<0.1	0.6	0.2	25	0.20	0.023	28
1354331	Soil	0.4	37.9	26.9	64	0.3	89.8	13.7	549	3.23	20.6	2.2	3.5	27	0.1	1.6	0.2	56	0.86	0.051	16
1354336	Soil	0.5	31.7	17.1	64	<0.1	26.3	8.0	326	2.74	6.8	1.2	10.3	27	0.1	0.6	0.2	42	0.39	0.074	31
1354333	Soil	0.5	13.3	32.8	29	<0.1	12.6	5.1	168	1.62	13.4	0.5	11.0	18	<0.1	0.8	<0.1	17	0.26	0.053	29
1354328	Soil	0.5	77.5	13.4	115	<0.1	158.0	26.7	889	5.27	5.8	1.1	5.3	17	<0.1	0.4	0.2	123	0.54	0.052	20
1354337	Soil	0.4	31.0	19.0	50	<0.1	32.5	8.5	190	2.34	4.6	1.0	18.3	20	<0.1	0.5	0.3	28	0.25	0.032	53
1354330	Soil	0.7	26.7	16.0	67	<0.1	28.1	19.3	545	4.35	6.2	1.4	5.0	10	<0.1	0.5	0.1	72	0.22	0.045	13
1354327	Soil	0.3	147.3	14.9	140	<0.1	253.9	36.1	1236	6.08	4.2	<0.5	6.5	11	0.2	0.5	0.2	123	0.38	0.088	21
1354329	Soil	0.4	86.6	12.0	101	0.1	208.3	32.7	1021	5.20	36.5	2.2	4.0	16	0.2	4.1	0.1	99	2.42	0.069	13
1354335	Soil	0.7	16.3	35.7	42	<0.1	10.8	4.3	157	1.61	30.1	1.4	20.0	14	<0.1	0.6	0.3	20	0.10	0.012	56

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Project: JPL
Report Date: December 11, 2015

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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
1463160	Soil	27	0.61	382	0.042	<1	1.50	0.017	0.06	0.2	0.03	5.5	<0.1	<0.05	4	<0.5	<0.2	
1463154	Soil	27	2.23	121	0.027	<1	2.66	0.007	0.03	<0.1	0.02	10.2	<0.1	<0.05	6	<0.5	<0.2	
1463165	Soil	74	0.90	319	0.035	<1	2.00	0.014	0.06	0.1	0.03	7.8	<0.1	<0.05	6	<0.5	<0.2	
1463162	Soil	23	0.60	535	0.030	1	1.31	0.014	0.05	0.2	0.03	3.8	<0.1	<0.05	4	<0.5	<0.2	
1463163	Soil	54	0.89	408	0.026	2	1.76	0.013	0.09	0.1	0.04	5.8	<0.1	<0.05	5	<0.5	<0.2	
1463158	Soil	15	0.38	660	0.021	2	0.90	0.016	0.03	0.1	0.04	2.0	<0.1	0.06	3	0.8	<0.2	
1463164	Soil	34	0.59	329	0.043	1	1.29	0.018	0.05	0.2	0.03	3.9	<0.1	<0.05	4	<0.5	<0.2	
1463169	Soil	37	0.76	318	0.015	<1	1.38	0.008	0.12	<0.1	0.01	6.9	0.1	<0.05	4	<0.5	<0.2	
1463168	Soil	38	1.55	638	0.014	<1	2.57	0.007	0.17	<0.1	0.03	23.7	<0.1	<0.05	8	<0.5	<0.2	
1463170	Soil	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.	I.S.
1463171	Soil	17	0.32	240	0.026	<1	0.96	0.009	0.14	<0.1	<0.01	4.2	0.1	0.05	3	<0.5	<0.2	
1463176	Soil	37	0.60	392	0.009	1	1.15	0.011	0.09	0.1	0.04	5.0	<0.1	<0.05	3	<0.5	<0.2	
1463177	Soil	28	1.52	324	0.014	<1	1.89	0.009	0.08	<0.1	0.03	4.9	<0.1	<0.05	5	<0.5	<0.2	
1463172	Soil	57	0.82	267	0.039	<1	1.54	0.008	0.12	<0.1	0.03	5.2	0.1	<0.05	5	<0.5	<0.2	
1463175	Soil	33	0.59	372	0.045	1	1.30	0.017	0.06	0.2	0.04	4.0	<0.1	<0.05	4	<0.5	<0.2	
1463166	Soil	53	0.79	349	0.055	<1	1.72	0.014	0.07	0.2	0.04	5.4	<0.1	<0.05	5	<0.5	<0.2	
1463173	Soil	48	0.73	328	0.051	<1	1.63	0.014	0.09	0.2	0.03	5.2	<0.1	<0.05	5	<0.5	<0.2	
1463167	Soil	6	0.65	172	0.055	<1	0.93	0.004	0.25	<0.1	0.02	2.8	0.3	<0.05	3	<0.5	<0.2	
1463174	Soil	81	1.15	339	0.058	<1	2.05	0.012	0.08	0.1	0.03	6.5	0.1	<0.05	6	<0.5	<0.2	
1354332	Soil	46	0.99	216	0.012	<1	1.62	0.016	0.10	<0.1	0.02	6.1	0.1	<0.05	4	<0.5	<0.2	
1354334	Soil	16	0.36	303	0.028	<1	0.96	0.009	0.08	0.1	0.01	3.5	<0.1	<0.05	3	<0.5	<0.2	
1354331	Soil	85	1.11	295	0.037	<1	1.79	0.013	0.07	0.2	0.02	5.5	<0.1	<0.05	5	<0.5	<0.2	
1354336	Soil	31	0.57	346	0.043	<1	1.27	0.012	0.14	0.1	0.04	6.8	0.1	<0.05	5	<0.5	<0.2	
1354333	Soil	14	0.20	239	0.013	<1	0.72	0.005	0.12	<0.1	0.02	3.9	0.2	<0.05	2	<0.5	<0.2	
1354328	Soil	179	2.89	241	0.130	<1	3.18	0.006	0.25	<0.1	0.02	11.3	0.3	<0.05	10	<0.5	<0.2	
1354337	Soil	54	0.71	381	0.034	<1	1.44	0.011	0.17	<0.1	0.02	5.5	0.2	<0.05	4	<0.5	<0.2	
1354330	Soil	43	1.71	197	0.053	<1	2.43	0.005	0.10	<0.1	0.01	6.0	0.1	<0.05	7	<0.5	<0.2	
1354327	Soil	210	3.49	148	0.082	<1	3.45	0.003	0.20	<0.1	0.03	14.3	0.3	<0.05	10	<0.5	<0.2	
1354329	Soil	201	2.36	211	0.031	<1	2.53	0.006	0.11	<0.1	0.02	11.5	0.1	<0.05	8	<0.5	<0.2	
1354335	Soil	12	0.29	199	0.032	<1	0.80	0.008	0.15	<0.1	0.02	3.2	0.1	<0.05	2	<0.5	<0.2	

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Project: JPL
Report Date: December 11, 2015

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CERTIFICATE OF ANALYSIS

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Method Analyte	AQ201																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
1354326	Soil	0.8	34.3	16.8	83	0.2	47.4	19.9	1123	4.49	14.5	1.2	9.9	47	0.2	1.2	<0.1	38	3.41	0.147	36
1354349	Soil	1.1	36.0	20.0	76	0.2	31.4	11.2	506	2.67	13.8	2.4	3.9	63	0.4	1.1	0.2	45	1.88	0.071	17
1354346	Soil	0.6	21.1	28.2	41	0.1	18.4	6.2	231	1.89	9.8	1.7	10.4	24	<0.1	0.6	0.2	33	0.30	0.035	33
1354344	Soil	1.6	98.0	72.4	143	0.4	39.8	11.8	476	3.31	8.8	4.4	8.7	47	0.6	0.5	1.3	37	0.55	0.068	26
1354347	Soil	0.7	29.4	21.6	53	<0.1	22.2	8.4	324	2.05	8.4	2.8	8.1	29	0.2	0.7	0.2	39	0.43	0.037	24
1354350	Soil	0.8	33.0	12.8	60	0.1	44.3	13.6	806	2.78	11.2	6.3	4.8	27	0.2	0.7	0.2	47	0.80	0.054	18
1354343	Soil	0.6	54.2	27.6	85	0.1	22.2	13.3	500	2.85	4.3	1.9	12.7	31	0.3	0.5	0.3	38	0.55	0.078	35
1354338	Soil	0.7	48.9	35.8	80	0.1	64.8	16.9	627	2.82	3.4	1.7	13.0	32	0.2	0.3	0.2	39	0.59	0.062	40
1354340	Soil	1.0	81.3	54.5	141	0.4	47.8	15.1	836	2.93	6.1	4.0	9.2	40	0.8	0.6	0.6	37	0.83	0.064	29
1354342	Soil	0.6	57.4	40.4	83	0.2	26.4	11.0	377	2.69	5.3	2.9	11.3	34	0.3	0.6	0.3	38	0.55	0.062	28
1354345	Soil	0.4	13.3	15.4	44	<0.1	11.3	4.5	211	1.75	4.1	<0.5	13.2	19	<0.1	0.4	0.2	20	0.22	0.042	39
1354341	Soil	0.8	70.4	58.1	172	0.3	65.7	26.5	758	3.71	4.0	5.0	13.8	52	1.4	0.9	0.2	54	1.64	0.113	45
1354339	Soil	1.4	83.2	54.0	127	0.3	39.3	12.9	542	2.80	6.6	3.1	6.6	51	0.8	0.5	0.9	34	0.86	0.070	22
1354402	Soil	0.6	65.8	13.0	89	0.2	84.0	16.7	619	3.76	9.0	3.4	7.8	24	<0.1	0.7	0.2	43	0.76	0.066	22
1354407	Soil	0.6	28.4	10.4	55	<0.1	20.8	7.9	254	2.88	11.9	0.6	5.9	22	<0.1	0.6	0.2	48	0.36	0.025	19
1354405	Soil	0.5	32.1	10.1	52	<0.1	12.7	6.2	348	2.45	8.5	2.7	10.3	15	<0.1	0.4	0.5	19	0.65	0.035	20
1354404	Soil	0.6	53.6	18.0	62	0.1	30.4	14.6	940	3.27	6.1	1.3	8.7	49	0.2	0.6	0.2	63	1.59	0.049	24
1354403	Soil	0.6	67.1	11.8	91	0.1	119.4	20.8	592	4.32	16.4	2.0	4.7	25	0.2	1.0	0.2	77	0.70	0.064	18
1354348	Soil	0.6	26.9	18.9	44	<0.1	20.8	7.0	268	2.24	10.2	1.2	7.6	28	<0.1	0.8	0.2	37	0.45	0.042	23
1354406	Soil	0.4	7.8	8.0	34	<0.1	7.6	6.2	340	2.18	1.3	<0.5	13.9	10	<0.1	<0.1	0.2	8	0.20	0.060	8
1354401	Soil	0.9	49.9	13.1	83	0.1	76.6	17.8	689	3.74	8.0	2.1	5.7	35	0.1	0.7	0.2	70	2.04	0.068	19
1354322	Soil	0.4	26.3	25.8	158	<0.1	3.0	4.3	395	0.90	1.4	<0.5	10.3	11	1.1	0.2	0.3	3	0.22	0.025	11
1354307	Soil	1.2	166.3	24.2	68	0.2	15.8	7.0	677	1.83	7.4	2.5	4.8	27	0.4	1.1	0.4	28	0.48	0.024	15
1354132	Soil	0.9	2962.9	19.7	280	0.3	8.2	11.6	1097	1.70	2.8	<0.5	8.4	18	1.1	0.3	0.3	7	0.24	0.030	17
1354302	Soil	1.5	211.5	25.3	42	<0.1	6.8	4.1	75	2.19	6.3	0.8	7.2	16	<0.1	0.4	0.3	17	0.11	0.025	25
1354303	Soil	0.7	1015.8	18.9	108	0.3	5.7	16.6	352	3.32	1.4	1.3	5.6	12	0.3	0.2	0.3	5	0.04	0.025	18
1354318	Soil	6.1	146.5	31.9	177	0.7	47.5	12.9	380	3.31	24.9	1.8	8.7	37	1.1	2.7	0.3	33	0.30	0.069	25
1354317	Soil	0.6	5.1	34.2	24	0.1	2.4	1.0	41	0.55	4.4	1.2	7.2	27	0.1	0.2	0.3	4	0.16	0.010	22
1354320	Soil	1.0	112.5	16.9	43	<0.1	5.5	3.4	193	1.16	3.5	17.2	5.7	12	<0.1	1.8	0.2	15	0.15	0.013	18
1354321	Soil	0.5	294.4	23.6	108	<0.1	2.6	2.9	495	1.03	1.2	2.6	11.9	12	0.3	0.1	0.2	2	0.11	0.026	28



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Method Analyte Unit MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Hg ppm	Sc ppm	Ti ppm	S %	Ga ppm	Se ppm	Te ppm	
1354326	Soil	31	0.96	359	0.002	<1	1.67	0.005	0.10	<0.1	0.02	5.5	<0.1	<0.05	5	<0.5	<0.2
1354349	Soil	26	0.64	416	0.050	1	1.18	0.022	0.08	0.2	0.05	3.4	<0.1	<0.05	4	<0.5	<0.2
1354346	Soil	22	0.37	405	0.041	<1	1.11	0.015	0.09	0.2	0.03	4.0	<0.1	<0.05	4	<0.5	<0.2
1354344	Soil	59	1.50	490	0.033	<1	1.69	0.011	0.13	<0.1	0.09	4.6	0.2	0.16	6	1.1	0.3
1354347	Soil	21	0.38	354	0.053	<1	1.17	0.016	0.09	0.2	0.03	3.7	0.1	<0.05	4	<0.5	<0.2
1354350	Soil	36	0.70	394	0.041	2	1.42	0.017	0.07	0.2	0.04	4.2	<0.1	<0.05	4	<0.5	<0.2
1354343	Soil	31	1.15	453	0.019	<1	1.63	0.009	0.12	<0.1	0.03	6.1	0.1	<0.05	5	<0.5	<0.2
1354338	Soil	105	2.04	504	0.050	<1	2.06	0.007	0.27	<0.1	0.02	5.4	0.2	<0.05	7	<0.5	<0.2
1354340	Soil	64	1.44	498	0.027	<1	1.76	0.011	0.14	<0.1	0.04	5.5	0.1	0.06	6	0.5	<0.2
1354342	Soil	39	1.11	496	0.031	<1	1.62	0.009	0.11	<0.1	0.06	5.5	0.1	<0.05	5	<0.5	<0.2
1354345	Soil	15	0.34	406	0.046	<1	1.01	0.007	0.24	<0.1	0.02	3.6	0.2	<0.05	3	<0.5	<0.2
1354341	Soil	109	2.37	466	0.042	<1	2.20	0.006	0.13	<0.1	0.03	10.0	0.2	<0.05	8	<0.5	<0.2
1354339	Soil	59	1.43	494	0.029	2	1.59	0.011	0.11	<0.1	0.08	4.3	0.1	0.17	5	<0.5	<0.2
1354402	Soil	51	1.45	241	0.031	<1	1.80	0.012	0.06	0.1	0.05	4.2	<0.1	<0.05	6	<0.5	<0.2
1354407	Soil	34	0.49	371	0.042	<1	1.66	0.012	0.06	0.1	0.02	6.3	<0.1	<0.05	5	<0.5	<0.2
1354405	Soil	13	0.26	298	0.009	<1	0.83	0.009	0.05	<0.1	0.03	4.3	<0.1	<0.05	3	<0.5	<0.2
1354404	Soil	43	1.02	391	0.009	<1	1.55	0.008	0.10	0.1	0.02	9.7	<0.1	<0.05	5	<0.5	<0.2
1354403	Soil	109	1.83	263	0.046	<1	2.34	0.011	0.07	<0.1	0.03	7.6	<0.1	<0.05	7	<0.5	<0.2
1354348	Soil	25	0.42	431	0.032	1	1.24	0.014	0.09	0.2	0.04	4.2	<0.1	<0.05	3	<0.5	<0.2
1354406	Soil	5	0.06	226	0.001	<1	0.53	0.005	0.06	<0.1	<0.01	4.1	<0.1	<0.05	1	<0.5	<0.2
1354401	Soil	83	1.65	306	0.057	2	2.07	0.013	0.09	0.1	0.03	5.9	0.1	<0.05	6	<0.5	<0.2
1354322	Soil	2	0.04	290	<0.001	<1	0.23	0.004	0.07	<0.1	0.02	2.5	<0.1	<0.05	<1	<0.5	<0.2
1354307	Soil	16	0.28	1271	0.025	<1	0.97	0.009	0.12	0.1	0.10	3.3	<0.1	<0.05	3	<0.5	<0.2
1354132	Soil	5	0.08	428	0.002	<1	0.34	0.005	0.05	<0.1	0.06	3.2	<0.1	<0.05	<1	<0.5	<0.2
1354302	Soil	11	0.14	672	0.011	<1	0.66	0.005	0.08	<0.1	0.04	1.5	<0.1	<0.05	1	<0.5	<0.2
1354303	Soil	4	0.04	647	0.004	<1	0.31	0.003	0.11	<0.1	0.03	1.3	<0.1	<0.05	<1	<0.5	<0.2
1354318	Soil	26	0.74	629	0.003	<1	1.21	0.008	0.09	0.7	0.14	4.9	<0.1	<0.05	3	1.8	<0.2
1354317	Soil	4	0.11	196	0.004	<1	0.44	0.003	0.11	<0.1	0.01	1.4	<0.1	<0.05	1	<0.5	<0.2
1354320	Soil	9	0.15	610	0.010	<1	0.60	0.005	0.09	<0.1	0.07	1.8	<0.1	<0.05	2	<0.5	<0.2
1354321	Soil	2	0.03	401	<0.001	<1	0.24	0.004	0.09	<0.1	0.03	2.4	<0.1	<0.05	<1	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

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Method Analyte	AQ201																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
1354310	Soil	0.6	45.7	28.9	82	<0.1	7.0	9.2	487	2.03	1.2	<0.5	18.9	14	0.2	<0.1	0.1	16	0.80	0.054	38
1354323	Soil	0.6	360.1	21.9	57	<0.1	8.7	5.5	246	1.30	4.6	5.1	7.1	12	0.1	1.2	0.2	14	0.10	0.012	18
1354306	Soil	1.3	180.7	32.1	94	0.1	22.4	11.1	624	2.56	10.1	10.9	5.3	27	0.3	1.0	0.4	44	0.35	0.033	16
1354319	Soil	1.1	97.0	27.9	80	<0.1	14.0	8.0	464	2.22	5.1	3.2	4.9	18	0.3	1.0	0.2	37	0.29	0.039	18
1354316	Soil	0.8	8.7	18.5	26	<0.1	7.4	3.2	104	1.19	5.2	<0.5	6.2	20	<0.1	0.3	0.2	24	0.21	0.013	20
1354312	Soil	0.7	89.7	27.3	97	<0.1	18.7	14.4	793	2.99	2.5	2.7	8.8	25	0.3	0.2	0.2	45	0.98	0.061	25
1354314	Soil	0.8	9.9	26.3	38	<0.1	9.9	5.4	201	1.44	5.3	4.0	9.9	19	<0.1	0.5	0.2	25	0.19	0.018	27
1354315	Soil	0.6	9.6	22.3	37	<0.1	7.8	3.1	94	1.36	7.7	0.9	9.9	18	<0.1	0.3	0.2	20	0.20	0.014	36
1354313	Soil	0.9	34.1	32.6	75	0.2	18.6	7.8	455	2.02	4.6	3.5	7.0	32	0.2	0.4	0.4	29	0.44	0.054	22
1354311	Soil	0.5	91.6	17.9	71	0.1	14.2	9.4	437	2.48	3.1	1.6	3.3	43	0.2	0.3	0.2	39	1.58	0.043	14
1354304	Soil	0.6	830.6	16.1	104	0.2	3.6	32.0	712	1.23	2.3	1.9	9.7	17	0.2	0.2	0.4	4	0.11	0.016	24
1354301	Soil	0.5	733.3	52.4	144	0.1	4.3	10.0	110	2.62	2.3	4.6	10.2	9	0.2	0.2	0.1	5	0.06	0.021	37
1354325	Soil	1.0	168.5	17.4	57	0.1	20.9	8.2	266	2.62	9.3	7.8	5.0	38	0.1	0.7	0.2	41	0.69	0.039	17
1354309	Soil	0.2	58.3	4.6	59	<0.1	45.3	30.0	850	4.75	4.8	1.2	1.7	62	0.2	0.3	<0.1	65	1.43	0.075	16
1354305	Soil	1.4	572.6	24.5	168	0.2	9.9	9.2	1178	1.80	4.3	4.6	9.6	19	0.9	0.5	0.5	12	0.14	0.020	24
1354308	Soil	0.9	91.9	29.2	92	0.2	20.1	19.0	1470	4.08	6.0	2.1	8.7	19	0.5	0.2	0.6	48	0.36	0.070	17
1354324	Soil	0.7	306.9	11.9	56	0.3	15.7	8.3	332	2.45	6.0	8.6	4.7	25	0.1	0.6	0.2	34	0.32	0.036	16
1354367	Soil	<0.1	44.9	3.5	53	0.1	18.5	24.2	671	3.56	2.5	0.7	0.4	11	<0.1	0.1	<0.1	53	1.25	0.030	1
1354442	Soil	0.7	55.2	10.8	42	<0.1	9.1	4.9	189	1.93	3.7	1.1	9.9	16	<0.1	0.3	0.3	18	0.27	0.045	31
1354366	Soil	0.2	38.1	3.4	59	<0.1	21.6	23.4	831	4.01	2.2	0.7	1.1	18	<0.1	0.2	<0.1	75	0.46	0.026	5
1354439	Soil	1.1	52.6	21.2	57	0.1	19.8	9.2	394	2.73	7.0	2.4	8.3	25	0.1	0.6	0.3	40	0.50	0.045	26
1354445	Soil	0.6	34.4	5.6	18	<0.1	4.9	2.8	97	1.50	3.6	<0.5	8.4	10	<0.1	0.1	0.4	6	0.10	0.034	26
1354441	Soil	0.7	46.8	13.2	31	0.1	9.7	5.8	324	2.07	6.9	1.6	10.4	20	<0.1	0.3	0.4	21	0.31	0.043	33
1354444	Soil	0.3	152.9	6.9	74	0.2	20.1	26.8	935	4.16	2.5	<0.5	0.8	12	0.1	0.6	0.2	68	0.88	0.036	3
1354438	Soil	1.0	54.2	17.4	66	0.2	19.2	9.6	412	2.73	5.8	2.8	8.0	27	0.1	0.5	0.3	43	0.51	0.049	26
1354437	Soil	1.2	40.0	18.7	62	0.2	19.1	10.0	369	2.65	6.7	1.9	6.2	27	<0.1	0.4	0.3	45	0.54	0.043	21
1354447	Soil	0.9	12.5	10.4	29	0.3	7.2	4.7	260	1.67	4.6	<0.5	2.9	7	<0.1	0.2	0.3	31	0.08	0.026	13
1354440	Soil	1.0	32.9	24.9	52	0.1	11.2	7.1	547	2.31	5.2	1.0	14.0	19	<0.1	0.4	0.4	20	0.30	0.054	37
1354365	Soil	0.7	61.3	9.8	32	0.1	10.0	5.3	196	2.19	4.9	0.5	9.2	8	<0.1	0.4	0.3	22	0.10	0.032	14
1354443	Soil	1.1	233.5	12.0	32	0.2	4.8	7.2	350	1.66	11.8	1.9	18.2	12	0.2	0.2	0.9	8	0.12	0.028	49

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Project: JPL
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CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
			Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
			ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
			1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1354310	Soil		28	1.31	183	0.010	<1	1.34	0.003	0.14	<0.1	<0.01	2.6	0.1	<0.05	4	<0.5	<0.2
1354323	Soil		10	0.14	684	0.011	<1	0.56	0.005	0.08	<0.1	0.02	2.5	<0.1	<0.05	1	<0.5	<0.2
1354306	Soil		25	0.43	604	0.041	<1	1.28	0.015	0.08	0.1	0.12	4.1	<0.1	<0.05	3	<0.5	<0.2
1354319	Soil		19	0.56	628	0.016	<1	1.23	0.008	0.09	0.1	0.06	4.2	<0.1	<0.05	3	0.6	<0.2
1354316	Soil		13	0.25	380	0.024	<1	0.83	0.009	0.08	<0.1	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
1354312	Soil		27	1.32	359	0.010	<1	1.73	0.005	0.12	<0.1	0.02	7.0	<0.1	<0.05	5	<0.5	<0.2
1354314	Soil		17	0.31	386	0.026	1	0.96	0.008	0.09	<0.1	0.02	2.4	<0.1	<0.05	3	<0.5	<0.2
1354315	Soil		13	0.27	397	0.017	1	0.90	0.008	0.10	<0.1	0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
1354313	Soil		28	0.67	409	0.021	<1	1.19	0.011	0.09	<0.1	0.05	3.7	0.1	0.09	3	0.7	<0.2
1354311	Soil		22	0.84	389	0.014	<1	1.66	0.009	0.05	<0.1	0.03	4.7	<0.1	<0.05	5	<0.5	<0.2
1354304	Soil		4	0.05	543	0.002	<1	0.55	0.006	0.07	<0.1	0.14	2.5	<0.1	<0.05	1	<0.5	<0.2
1354301	Soil		4	0.04	306	0.003	<1	0.37	0.004	0.07	<0.1	0.09	1.3	<0.1	<0.05	<1	<0.5	<0.2
1354325	Soil		22	0.42	721	0.037	<1	1.28	0.017	0.09	0.2	0.08	3.7	<0.1	0.05	3	<0.5	<0.2
1354309	Soil		87	2.13	461	0.033	<1	3.77	0.191	0.04	<0.1	0.03	13.3	<0.1	<0.05	7	<0.5	<0.2
1354305	Soil		8	0.12	793	0.005	<1	0.65	0.008	0.07	<0.1	0.13	3.9	<0.1	<0.05	2	<0.5	<0.2
1354308	Soil		29	0.85	482	0.003	<1	1.49	0.007	0.08	<0.1	0.02	8.0	<0.1	<0.05	4	<0.5	<0.2
1354324	Soil		20	0.34	650	0.029	<1	1.15	0.011	0.07	0.1	0.06	3.5	<0.1	<0.05	3	<0.5	<0.2
1354367	Soil		29	2.35	69	0.050	<1	2.39	0.002	0.02	<0.1	0.02	2.9	<0.1	<0.05	5	0.7	<0.2
1354442	Soil		12	0.39	481	0.010	<1	1.03	0.007	0.07	<0.1	0.02	3.1	<0.1	<0.05	3	<0.5	<0.2
1354366	Soil		28	2.14	183	0.043	<1	2.66	0.004	0.03	<0.1	0.02	6.4	<0.1	<0.05	6	<0.5	<0.2
1354439	Soil		26	0.57	507	0.044	<1	1.69	0.014	0.07	0.1	0.04	4.8	<0.1	<0.05	5	<0.5	<0.2
1354445	Soil		5	0.24	187	0.003	<1	0.78	0.003	0.08	<0.1	<0.01	1.4	<0.1	<0.05	3	<0.5	<0.2
1354441	Soil		13	0.31	382	0.015	<1	1.12	0.010	0.08	<0.1	0.03	3.1	<0.1	<0.05	3	<0.5	<0.2
1354444	Soil		29	2.13	91	0.042	<1	2.53	0.004	0.03	0.1	0.04	5.2	<0.1	<0.05	6	<0.5	<0.2
1354438	Soil		26	0.68	473	0.041	<1	1.59	0.013	0.05	0.1	0.04	5.0	<0.1	<0.05	5	<0.5	<0.2
1354437	Soil		27	0.57	462	0.043	1	1.51	0.016	0.06	0.1	0.03	4.7	<0.1	<0.05	5	<0.5	<0.2
1354447	Soil		14	0.31	190	0.020	<1	1.00	0.005	0.06	0.2	<0.01	1.5	<0.1	<0.05	4	<0.5	<0.2
1354440	Soil		12	0.35	378	0.016	<1	1.05	0.007	0.05	<0.1	0.02	3.9	<0.1	<0.05	3	<0.5	<0.2
1354365	Soil		14	0.33	280	0.019	<1	1.17	0.005	0.13	<0.1	<0.01	2.0	<0.1	<0.05	3	<0.5	<0.2
1354443	Soil		7	0.26	201	0.004	<1	0.69	0.005	0.03	<0.1	0.01	2.0	<0.1	<0.05	2	0.6	<0.2

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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
1354435	Soil	0.7	29.9	28.1	55	<0.1	23.3	11.2	559	2.66	4.2	3.4	15.0	26	<0.1	0.4	0.2	32	0.63	0.054	28
1354446	Soil	0.4	226.6	8.9	295	<0.1	26.9	35.2	808	5.21	4.0	<0.5	1.1	14	0.6	0.4	0.7	80	0.33	0.027	5
1354436	Soil	0.6	23.9	36.6	55	<0.1	11.5	6.4	325	1.93	4.2	2.6	21.0	17	0.1	0.4	0.2	22	0.36	0.043	26
1354433	Soil	1.2	20.9	19.9	51	<0.1	8.7	7.2	508	2.46	7.5	<0.5	8.6	21	<0.1	0.5	0.3	24	0.25	0.059	34
1354432	Soil	1.3	28.3	19.9	70	<0.1	7.8	7.8	678	3.03	11.9	0.9	9.1	19	0.2	0.6	0.5	22	0.35	0.076	36
1354434	Soil	0.7	18.2	42.5	46	0.1	8.2	6.4	445	1.91	2.2	1.5	21.4	19	0.1	0.3	0.4	14	0.42	0.039	25
1354431	Soil	1.1	38.8	12.8	49	<0.1	11.4	7.5	289	2.36	5.6	0.6	7.8	19	0.1	0.4	0.4	32	0.26	0.037	23
1354427	Soil	1.0	58.8	18.6	53	0.1	12.5	7.5	294	2.49	6.5	3.2	12.0	19	<0.1	0.3	0.3	30	0.34	0.032	33
1354428	Soil	0.8	63.1	17.5	63	0.2	9.8	11.7	433	2.08	0.6	1.7	22.5	31	0.1	0.2	0.1	24	2.08	0.025	23
1354430	Soil	1.1	31.9	31.2	84	0.2	13.5	7.7	325	2.20	3.1	1.8	9.5	32	0.2	0.4	0.3	21	0.36	0.043	19
1354429	Soil	1.0	108.7	52.5	107	0.4	23.0	17.5	915	4.19	9.9	3.1	9.6	24	0.3	0.5	0.4	60	0.47	0.068	30
1354426	Soil	1.4	59.2	18.8	73	0.2	12.0	9.0	501	3.08	6.4	5.1	13.1	20	<0.1	0.3	0.3	20	0.38	0.047	40
1354424	Soil	0.6	128.5	10.2	59	0.2	21.5	22.3	574	3.37	4.9	3.0	1.6	14	<0.1	0.4	0.2	65	0.32	0.020	7
1354425	Soil	1.2	184.7	16.6	119	0.3	17.0	14.1	999	3.25	6.8	2.3	14.1	16	0.4	0.4	1.1	22	0.41	0.052	35
1354423	Soil	0.8	50.8	7.4	43	0.2	21.2	21.3	657	3.42	4.6	1.6	1.3	13	<0.1	0.3	0.1	88	0.23	0.026	6
1354130	Soil	1.7	976.5	25.4	531	0.2	13.2	19.7	1515	2.88	5.1	6.5	8.6	19	5.0	0.6	0.2	15	0.18	0.024	21
1354131	Soil	1.2	790.5	161.2	273	0.6	7.0	11.2	692	2.41	5.1	12.7	10.0	15	0.9	0.7	0.5	7	0.16	0.022	26
1354128	Soil	1.3	120.2	70.8	174	0.6	8.9	3.6	113	2.27	6.1	22.0	3.8	45	0.2	1.1	0.5	14	0.12	0.025	13
1354127	Soil	0.6	23.8	19.0	42	<0.1	17.8	6.7	280	1.95	6.7	3.1	9.8	30	<0.1	0.5	0.2	35	0.48	0.034	31
1354129	Soil	1.6	225.2	28.0	385	1.0	7.8	11.8	1336	2.71	4.9	14.9	6.7	59	2.4	1.7	1.9	6	3.12	0.037	8
1354126	Soil	0.7	12.8	18.3	37	<0.1	12.6	5.4	259	1.62	5.2	0.7	8.6	20	0.1	0.5	0.2	33	0.30	0.022	27
1354125	Soil	0.6	13.8	27.1	25	<0.1	14.9	4.4	306	1.13	2.6	15.0	17.5	11	0.2	0.3	0.2	18	0.09	0.008	48
1354115	Soil	1.0	34.1	20.5	62	<0.1	9.2	7.0	240	1.61	5.9	1.4	7.7	12	<0.1	0.6	0.2	25	0.14	0.013	12
1354117	Soil	1.1	42.1	18.8	70	<0.1	18.6	6.7	213	2.16	7.8	3.2	9.4	22	<0.1	0.8	0.2	35	0.30	0.015	32
1354121	Soil	0.6	10.1	21.2	25	<0.1	9.6	3.2	114	1.35	4.5	0.8	9.5	9	<0.1	0.5	0.2	27	0.07	0.011	26
1354123	Soil	0.7	10.7	14.3	33	<0.1	14.4	5.8	254	1.78	5.4	<0.5	6.0	16	<0.1	0.4	0.1	35	0.16	0.009	14
1354116	Soil	1.1	42.1	24.3	73	<0.1	16.4	7.5	329	1.91	8.9	0.9	8.0	15	0.1	0.8	0.2	26	0.17	0.019	21
1354119	Soil	0.9	5.8	28.4	21	<0.1	6.4	3.4	240	1.29	3.3	1.0	5.5	15	<0.1	0.2	0.2	26	0.19	0.016	17
1354120	Soil	0.4	7.2	13.5	26	<0.1	7.8	3.5	148	1.10	3.8	<0.5	11.8	14	<0.1	0.2	0.1	17	0.16	0.010	15
1354122	Soil	0.5	4.7	25.5	18	<0.1	4.9	2.0	71	0.92	2.4	0.7	9.5	7	<0.1	0.2	0.2	19	0.06	0.006	21



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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.01	0.05	1	0.5	0.2	
1354435	Soil	31	0.59	421	0.020	1	1.22	0.014	0.11	<0.1	0.01	5.1	0.1	<0.05	3	<0.5	<0.2	
1354446	Soil	32	2.14	273	0.031	<1	2.87	0.006	0.03	<0.1	0.04	8.2	<0.1	<0.05	7	<0.5	<0.2	
1354436	Soil	16	0.40	286	0.021	<1	0.89	0.010	0.11	0.1	0.02	3.3	<0.1	<0.05	3	<0.5	<0.2	
1354433	Soil	13	0.26	384	0.015	<1	0.87	0.012	0.13	<0.1	0.03	3.4	<0.1	<0.05	3	<0.5	<0.2	
1354432	Soil	10	0.20	433	0.010	<1	0.72	0.008	0.12	<0.1	0.03	5.5	<0.1	<0.05	2	<0.5	<0.2	
1354434	Soil	9	0.35	230	0.015	1	0.70	0.006	0.15	<0.1	0.01	2.8	0.1	<0.05	2	<0.5	<0.2	
1354431	Soil	17	0.35	351	0.029	<1	1.25	0.012	0.07	<0.1	0.01	3.3	<0.1	<0.05	4	<0.5	<0.2	
1354427	Soil	18	0.42	334	0.023	<1	1.39	0.010	0.05	0.1	<0.01	5.9	<0.1	<0.05	4	<0.5	<0.2	
1354428	Soil	12	0.56	138	<0.001	<1	0.92	0.004	0.07	<0.1	0.02	5.5	<0.1	<0.05	2	<0.5	<0.2	
1354430	Soil	16	0.31	448	0.009	<1	1.33	0.010	0.07	<0.1	0.08	5.9	<0.1	<0.05	3	<0.5	<0.2	
1354429	Soil	22	0.92	304	0.012	<1	1.68	0.022	0.10	<0.1	0.16	12.1	<0.1	<0.05	5	<0.5	<0.2	
1354426	Soil	11	0.45	483	0.006	<1	1.10	0.011	0.05	<0.1	0.05	6.1	<0.1	<0.05	4	<0.5	<0.2	
1354424	Soil	29	1.52	209	0.034	2	2.24	0.005	0.03	<0.1	0.02	6.2	<0.1	<0.05	5	<0.5	<0.2	
1354425	Soil	17	0.76	429	0.022	<1	1.48	0.024	0.10	<0.1	0.02	5.5	<0.1	<0.05	5	<0.5	<0.2	
1354423	Soil	32	1.49	246	0.063	<1	1.99	0.006	0.03	<0.1	<0.01	5.5	<0.1	<0.05	6	<0.5	<0.2	
1354130	Soil	10	0.17	505	0.008	<1	0.78	0.008	0.05	<0.1	0.14	3.4	<0.1	<0.05	2	<0.5	<0.2	
1354131	Soil	5	0.07	658	0.001	<1	0.47	0.004	0.09	<0.1	0.70	3.6	<0.1	<0.05	1	0.5	<0.2	
1354128	Soil	11	0.18	385	0.008	<1	0.60	0.007	0.12	<0.1	0.63	3.5	<0.1	0.16	2	0.6	<0.2	
1354127	Soil	20	0.41	714	0.031	<1	1.15	0.016	0.09	0.1	0.03	4.0	<0.1	<0.05	4	<0.5	<0.2	
1354129	Soil	5	0.11	375	0.002	<1	0.70	0.013	0.18	<0.1	0.53	2.4	<0.1	0.28	<1	<0.5	<0.2	
1354126	Soil	18	0.32	705	0.031	<1	0.99	0.009	0.11	0.1	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2	
1354125	Soil	17	0.18	532	0.021	<1	0.49	0.006	0.11	<0.1	0.03	2.5	<0.1	<0.05	2	<0.5	<0.2	
1354115	Soil	19	0.24	343	0.019	<1	0.91	0.006	0.09	<0.1	<0.01	2.4	<0.1	<0.05	2	<0.5	<0.2	
1354117	Soil	26	0.38	856	0.030	<1	1.31	0.011	0.08	0.1	0.08	5.5	<0.1	<0.05	4	<0.5	<0.2	
1354121	Soil	14	0.22	663	0.021	<1	0.84	0.007	0.07	0.1	<0.01	1.6	<0.1	<0.05	3	<0.5	<0.2	
1354123	Soil	20	0.33	741	0.032	<1	1.02	0.007	0.10	0.1	0.01	2.3	<0.1	<0.05	3	<0.5	<0.2	
1354116	Soil	20	0.30	574	0.023	<1	0.81	0.011	0.06	<0.1	0.08	3.6	<0.1	<0.05	2	<0.5	<0.2	
1354119	Soil	12	0.18	673	0.018	<1	0.77	0.007	0.15	0.2	<0.01	1.8	<0.1	<0.05	3	<0.5	<0.2	
1354120	Soil	11	0.16	327	0.015	<1	0.63	0.007	0.08	<0.1	<0.01	2.3	<0.1	<0.05	2	<0.5	<0.2	
1354122	Soil	10	0.14	600	0.013	<1	0.71	0.005	0.09	0.1	<0.01	1.3	<0.1	<0.05	2	<0.5	<0.2	



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Method Analyte	AQ201																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1	
1354113	Soil	1.0	25.9	19.5	47	<0.1	18.7	6.3	227	2.01	7.4	4.7	9.6	19	<0.1	0.8	0.2	40	0.21	0.016	26
1354118	Soil	0.9	18.4	13.4	46	0.1	18.0	6.8	446	2.19	6.7	2.9	7.7	21	0.1	0.6	0.2	45	0.24	0.014	26
1354114	Soil	0.7	15.8	22.8	31	<0.1	12.5	4.2	185	1.52	4.8	4.2	11.2	17	0.1	0.5	0.2	30	0.21	0.014	31
1354124	Soil	0.8	17.3	12.1	41	<0.1	19.1	6.5	236	2.12	8.3	2.7	7.5	18	0.1	0.7	0.2	43	0.18	0.011	21
1354111	Soil	1.0	33.3	12.3	93	0.1	30.7	11.2	526	2.54	12.6	4.1	3.8	45	0.7	1.2	0.2	43	0.86	0.079	17
1354109	Soil	0.9	32.9	14.3	55	<0.1	24.2	7.9	342	2.13	8.2	8.0	8.1	30	0.2	0.8	0.2	46	0.42	0.052	24
1354110	Soil	1.0	29.2	18.3	59	0.1	24.7	8.6	447	2.29	8.7	5.4	8.5	37	0.2	1.0	0.2	41	0.42	0.041	25
1354108	Soil	0.7	25.1	16.3	46	<0.1	19.6	5.7	180	2.09	7.5	0.6	10.2	25	<0.1	0.7	0.2	39	0.39	0.037	32
1354112	Soil	0.8	14.3	32.1	20	<0.1	8.9	4.1	209	1.17	4.0	2.1	14.9	16	<0.1	0.5	0.2	23	0.19	0.012	46
1354107	Soil	0.8	54.5	33.5	175	0.3	33.0	16.5	666	3.67	7.0	12.0	3.2	54	0.5	1.0	0.1	63	0.96	0.065	15
1354106	Soil	1.5	383.4	961.7	852	2.4	9.5	6.4	1267	2.16	15.1	94.8	4.2	44	7.7	2.0	1.2	12	0.27	0.036	8
1354103	Soil	0.8	36.9	15.9	43	0.3	8.1	4.8	298	1.46	5.1	5.1	7.0	18	0.2	0.6	0.3	11	0.18	0.011	10
1354101	Soil	1.1	52.4	38.2	70	0.4	9.5	6.0	520	1.41	3.9	5.2	10.8	27	0.3	0.4	0.3	15	1.11	0.023	23
1354104	Soil	1.0	36.0	30.0	80	0.5	4.1	4.2	530	1.19	2.8	4.9	8.3	37	0.6	0.3	0.3	4	2.01	0.025	14
1354105	Soil	1.4	224.0	11.9	108	0.4	4.9	10.5	964	1.73	7.4	1.4	10.7	32	1.0	0.4	0.8	3	1.32	0.032	28
1354102	Soil	2.4	32.9	28.2	82	0.7	12.8	6.6	442	1.55	5.1	5.3	4.9	51	0.6	0.6	0.3	16	2.70	0.032	14
1502351	Soil	0.8	12.6	16.3	34	<0.1	11.2	5.3	181	1.60	6.0	13.3	6.7	19	0.2	0.5	0.1	33	0.21	0.022	27
1502355	Soil	0.6	17.1	14.5	33	<0.1	12.7	4.7	168	1.52	5.4	2.6	7.2	22	<0.1	0.5	0.2	32	0.24	0.025	25
1502353	Soil	0.6	12.8	16.4	31	<0.1	9.8	3.5	135	1.29	3.7	3.8	13.1	19	<0.1	0.4	0.2	24	0.22	0.020	40
1502352	Soil	0.7	9.6	12.9	32	<0.1	10.6	4.7	223	1.37	4.0	39.6	7.4	19	0.1	0.3	0.1	30	0.19	0.029	30
1502379	Soil	0.4	7.0	12.0	18	<0.1	6.3	3.2	90	0.84	2.9	1.3	7.5	18	<0.1	0.2	0.1	17	0.15	0.011	25
1502356	Soil	0.7	14.5	19.0	31	<0.1	10.1	4.4	131	1.25	4.2	2.5	8.7	19	<0.1	0.5	0.2	28	0.17	0.017	33
1502378	Soil	0.8	21.9	11.3	43	<0.1	19.5	7.1	275	2.02	7.9	2.3	5.0	28	0.2	0.6	0.1	47	0.45	0.054	17
1502380	Soil	0.4	7.2	18.2	37	<0.1	7.1	3.3	98	1.20	4.3	1.7	9.9	17	<0.1	0.2	0.1	21	0.18	0.012	34
1502377	Soil	0.8	24.1	14.7	46	<0.1	20.2	7.2	284	2.07	7.1	3.2	5.9	29	0.1	0.7	0.2	43	0.42	0.044	19
1502376	Soil	0.4	8.5	24.1	14	<0.1	5.3	2.3	119	0.75	2.8	1.3	8.8	19	0.1	0.3	0.2	13	0.13	0.007	33
1502354	Soil	0.5	14.6	9.8	33	<0.1	11.8	4.4	165	1.40	4.1	13.0	5.8	20	<0.1	0.4	0.1	35	0.23	0.024	21
1502368	Soil	0.5	8.2	21.5	25	<0.1	8.9	3.8	109	1.48	5.8	1.1	6.9	16	<0.1	0.4	0.2	25	0.09	0.011	19
1502371	Soil	0.2	4.9	26.5	8	<0.1	1.8	0.7	48	0.46	1.5	3.0	16.3	13	<0.1	0.2	0.2	3	0.06	0.005	61
1502370	Soil	0.3	7.4	40.9	61	<0.1	3.5	1.4	308	1.14	1.0	3.6	22.0	14	0.2	0.2	0.3	5	0.11	0.009	78



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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1354113	Soil	23	0.37	743	0.047	<1	1.18	0.016	0.06	0.2	0.03	4.3	<0.1	<0.05	4	<0.5	<0.2
1354118	Soil	24	0.38	776	0.050	<1	1.27	0.011	0.10	0.2	0.02	4.1	<0.1	<0.05	4	<0.5	<0.2
1354114	Soil	18	0.28	942	0.018	1	1.02	0.013	0.08	0.1	<0.01	2.9	<0.1	<0.05	3	<0.5	<0.2
1354124	Soil	27	0.36	542	0.048	<1	1.16	0.008	0.10	0.2	0.01	3.7	<0.1	<0.05	3	<0.5	<0.2
1354111	Soil	23	0.56	513	0.042	2	1.09	0.022	0.06	0.3	0.05	3.3	<0.1	<0.05	3	<0.5	<0.2
1354109	Soil	24	0.46	501	0.052	<1	1.17	0.023	0.09	0.2	0.03	4.1	<0.1	<0.05	4	<0.5	<0.2
1354110	Soil	24	0.43	657	0.044	1	1.35	0.018	0.07	0.2	0.03	3.9	<0.1	<0.05	4	<0.5	<0.2
1354108	Soil	23	0.43	706	0.040	<1	1.32	0.016	0.09	0.2	0.03	4.2	<0.1	<0.05	4	<0.5	<0.2
1354112	Soil	15	0.21	642	0.021	<1	0.81	0.007	0.08	0.1	0.03	2.7	<0.1	<0.05	2	<0.5	<0.2
1354107	Soil	57	1.33	591	0.037	1	2.32	0.126	0.07	<0.1	0.37	9.2	<0.1	<0.05	6	<0.5	<0.2
1354106	Soil	9	0.15	425	0.007	<1	0.73	0.012	0.20	<0.1	4.77	2.4	<0.1	0.21	2	<0.5	<0.2
1354103	Soil	7	0.14	534	0.003	<1	0.49	0.007	0.05	<0.1	0.12	4.1	<0.1	<0.05	1	<0.5	<0.2
1354101	Soil	8	0.19	732	0.005	<1	0.85	0.010	0.12	<0.1	0.15	3.7	<0.1	<0.05	2	<0.5	<0.2
1354104	Soil	2	0.16	415	0.001	<1	0.42	0.007	0.09	<0.1	0.15	3.0	<0.1	0.06	1	<0.5	<0.2
1354105	Soil	2	0.12	430	0.001	<1	0.40	0.006	0.11	<0.1	0.16	1.9	<0.1	<0.05	<1	<0.5	<0.2
1354102	Soil	11	0.28	621	0.005	<1	0.76	0.011	0.08	<0.1	0.11	3.1	<0.1	<0.05	2	<0.5	<0.2
1502351	Soil	19	0.29	479	0.034	<1	0.98	0.008	0.10	0.2	0.02	2.8	<0.1	<0.05	3	<0.5	<0.2
1502355	Soil	19	0.28	459	0.044	<1	0.96	0.012	0.07	0.1	0.02	3.3	<0.1	<0.05	3	<0.5	<0.2
1502353	Soil	15	0.27	426	0.021	<1	0.82	0.010	0.10	<0.1	0.02	2.8	<0.1	<0.05	3	<0.5	<0.2
1502352	Soil	18	0.28	331	0.032	<1	0.88	0.008	0.09	0.1	0.02	2.2	<0.1	<0.05	3	<0.5	<0.2
1502379	Soil	10	0.16	248	0.019	<1	0.59	0.009	0.09	<0.1	<0.01	2.0	<0.1	<0.05	2	<0.5	<0.2
1502356	Soil	16	0.26	489	0.042	<1	0.82	0.012	0.08	<0.1	0.01	3.0	<0.1	<0.05	3	<0.5	<0.2
1502378	Soil	23	0.40	288	0.059	<1	1.07	0.022	0.06	0.2	0.02	3.5	<0.1	<0.05	4	<0.5	<0.2
1502380	Soil	12	0.28	228	0.019	<1	0.85	0.008	0.09	<0.1	<0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
1502377	Soil	26	0.42	362	0.056	<1	1.25	0.019	0.07	0.1	0.03	4.3	<0.1	<0.05	4	<0.5	<0.2
1502376	Soil	7	0.13	295	0.023	<1	0.53	0.008	0.10	<0.1	<0.01	1.7	<0.1	<0.05	2	<0.5	<0.2
1502354	Soil	19	0.31	364	0.056	<1	0.92	0.015	0.05	0.1	0.02	3.5	<0.1	<0.05	3	<0.5	<0.2
1502368	Soil	13	0.23	252	0.022	<1	1.00	0.007	0.07	<0.1	<0.01	2.1	<0.1	<0.05	3	<0.5	<0.2
1502371	Soil	3	0.06	517	0.003	<1	0.34	0.004	0.10	<0.1	<0.01	1.6	<0.1	<0.05	1	<0.5	<0.2
1502370	Soil	4	0.31	847	0.003	<1	0.74	0.006	0.14	<0.1	<0.01	2.2	<0.1	<0.05	4	<0.5	<0.2



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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	ppm
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
1502373	Soil	0.2	4.7	19.8	7	<0.1	2.6	1.0	39	0.47	1.6	4.2	10.1	18	<0.1	0.3	0.2	7	0.07	0.003	34
1502374	Soil	0.2	4.9	22.9	10	<0.1	3.4	1.2	35	0.53	1.4	1.2	7.1	18	<0.1	0.2	0.2	11	0.11	0.004	25
1502375	Soil	0.7	16.9	12.7	34	<0.1	12.9	5.9	138	1.72	5.6	3.0	6.2	20	0.1	0.6	0.2	33	0.18	0.011	21
1502372	Soil	0.3	9.1	18.3	15	<0.1	6.4	2.5	94	0.83	2.9	1.5	8.4	17	<0.1	0.4	0.2	17	0.11	0.006	26
1502367	Soil	0.3	6.1	28.3	32	<0.1	3.8	1.7	76	0.74	1.9	2.5	13.9	22	<0.1	0.2	0.2	8	0.08	0.005	33
1502366	Soil	0.5	5.0	29.6	12	<0.1	1.9	1.1	40	0.60	1.9	2.0	12.0	10	<0.1	0.3	0.2	6	0.05	0.005	29
1502369	Soil	0.6	9.8	23.9	35	<0.1	7.0	2.4	130	1.17	3.4	1.9	14.1	14	<0.1	0.3	0.3	14	0.09	0.008	53
1502364	Soil	0.5	14.1	19.6	27	<0.1	11.5	4.3	110	1.47	5.6	3.3	9.3	12	<0.1	0.4	0.3	27	0.09	0.014	38
1502361	Soil	0.6	12.5	23.5	33	<0.1	9.0	3.4	125	1.19	4.3	3.7	14.6	17	<0.1	0.4	0.3	20	0.12	0.009	41
1502359	Soil	0.6	11.8	25.4	32	<0.1	8.5	2.7	100	1.15	3.7	2.0	14.1	15	<0.1	0.4	0.2	19	0.12	0.012	53
1502360	Soil	0.5	10.3	16.9	23	<0.1	7.7	3.2	98	1.07	3.4	7.3	8.5	14	<0.1	0.3	0.2	22	0.10	0.007	29
1502362	Soil	0.3	9.7	20.8	28	<0.1	7.6	3.7	120	1.07	4.0	1.1	7.7	18	<0.1	0.3	0.2	21	0.10	0.007	24
1502363	Soil	0.4	12.9	17.0	29	<0.1	10.8	3.7	123	1.18	4.7	1.9	7.0	19	<0.1	0.4	0.2	23	0.14	0.008	24
1502358	Soil	0.4	11.5	19.9	31	<0.1	9.6	3.2	107	1.26	4.1	2.8	11.5	16	<0.1	0.4	0.2	27	0.16	0.014	40
1502365	Soil	0.3	4.9	32.0	12	<0.1	2.8	1.7	45	0.63	1.9	0.8	12.8	12	<0.1	0.2	0.2	7	0.07	0.008	58
1502357	Soil	0.5	13.5	18.3	32	<0.1	10.8	5.0	144	1.41	4.6	2.4	8.6	17	<0.1	0.6	0.2	31	0.16	0.013	31
1354175	Soil	0.5	8.8	28.9	27	<0.1	6.8	2.8	78	1.01	5.5	1.0	15.4	16	<0.1	0.4	0.1	15	0.04	0.009	27
1354174	Soil	0.6	12.6	24.1	31	<0.1	9.8	3.3	97	1.22	5.7	<0.5	13.3	16	0.1	0.5	0.2	20	0.13	0.017	37
1354173	Soil	0.2	40.0	22.4	92	<0.1	32.0	13.3	1067	3.47	2.5	7.1	17.3	25	0.2	0.3	0.2	40	0.40	0.081	38
1354172	Soil	0.4	38.5	29.9	55	<0.1	14.4	10.5	753	1.67	2.2	1.8	12.6	20	0.2	0.3	0.3	15	0.50	0.068	31
1354171	Soil	2.6	155.3	141.8	214	0.5	65.5	24.5	745	4.45	9.6	7.9	14.7	75	1.0	1.6	1.6	25	0.81	0.071	35
1354170	Soil	1.1	72.2	83.1	198	0.5	48.0	26.7	607	3.72	6.5	9.3	11.8	31	1.3	0.5	0.3	46	0.58	0.081	27
1354169	Soil	1.3	75.4	52.3	152	0.3	43.5	23.8	666	3.79	7.3	5.2	11.6	36	0.5	0.5	0.2	50	0.64	0.080	27
1354168	Soil	2.4	61.0	107.7	139	0.5	18.0	13.8	578	2.57	10.0	20.3	23.8	32	0.8	0.6	0.7	17	0.54	0.076	44
1354166	Soil	1.2	115.7	40.4	147	0.5	31.0	21.5	782	3.50	8.0	8.1	14.0	44	0.1	0.2	1.1	22	0.32	0.114	25
1354164	Soil	1.8	90.2	76.4	165	0.3	68.6	19.0	657	3.74	8.2	5.5	15.7	48	0.4	0.5	0.7	37	0.47	0.069	28
1354167	Soil	1.8	111.5	57.6	176	0.2	43.2	10.4	520	3.95	9.4	3.8	10.7	44	0.2	0.6	1.0	38	0.35	0.078	17
1354163	Soil	1.7	126.7	126.0	189	0.7	51.2	18.7	581	3.06	5.5	5.4	9.4	76	1.7	0.5	0.6	39	1.29	0.075	43
1354161	Soil	0.3	20.1	14.8	41	0.1	16.9	6.8	397	1.80	5.3	1.7	10.5	29	0.1	0.4	0.2	25	0.49	0.036	31
1354162	Soil	0.4	28.1	20.1	58	<0.1	32.9	8.5	337	2.18	4.9	3.2	12.1	26	0.1	0.4	0.2	33	0.50	0.042	35



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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1502373	Soil	5	0.06	308	0.009	<1	0.35	0.004	0.08	<0.1	0.01	1.5	<0.1	<0.05	1	<0.5	<0.2
1502374	Soil	6	0.10	358	0.017	<1	0.39	0.005	0.07	<0.1	<0.01	1.5	<0.1	<0.05	1	<0.5	<0.2
1502375	Soil	21	0.34	413	0.042	<1	1.03	0.010	0.05	0.1	0.01	3.4	<0.1	<0.05	3	<0.5	<0.2
1502372	Soil	10	0.14	323	0.024	<1	0.58	0.006	0.07	<0.1	<0.01	2.1	<0.1	<0.05	2	<0.5	<0.2
1502367	Soil	6	0.25	228	0.008	<1	0.73	0.004	0.06	<0.1	<0.01	2.1	<0.1	<0.05	2	<0.5	<0.2
1502366	Soil	5	0.10	405	0.005	<1	0.51	0.004	0.07	<0.1	<0.01	1.4	<0.1	<0.05	2	<0.5	<0.2
1502369	Soil	11	0.26	743	0.011	2	0.85	0.006	0.09	<0.1	<0.01	2.5	<0.1	<0.05	3	<0.5	<0.2
1502364	Soil	17	0.27	493	0.025	1	0.97	0.008	0.08	0.1	0.02	3.3	<0.1	<0.05	3	<0.5	<0.2
1502361	Soil	13	0.23	755	0.020	1	0.85	0.006	0.10	<0.1	0.02	3.0	<0.1	<0.05	3	<0.5	<0.2
1502359	Soil	12	0.23	809	0.019	1	0.89	0.007	0.11	0.1	0.01	2.4	<0.1	<0.05	3	<0.5	<0.2
1502360	Soil	13	0.22	467	0.030	<1	0.70	0.007	0.06	<0.1	0.01	2.2	<0.1	<0.05	2	<0.5	<0.2
1502362	Soil	12	0.25	447	0.025	<1	0.75	0.005	0.06	<0.1	0.01	1.8	<0.1	<0.05	2	<0.5	<0.2
1502363	Soil	15	0.23	433	0.025	1	0.78	0.007	0.06	<0.1	0.02	2.8	<0.1	<0.05	3	<0.5	<0.2
1502358	Soil	15	0.29	528	0.032	2	0.84	0.009	0.09	<0.1	<0.01	2.6	<0.1	<0.05	3	<0.5	<0.2
1502365	Soil	5	0.09	378	0.005	1	0.45	0.005	0.10	<0.1	0.01	1.2	<0.1	<0.05	1	<0.5	<0.2
1502357	Soil	17	0.30	389	0.043	<1	0.92	0.009	0.07	0.1	0.02	2.7	<0.1	<0.05	3	<0.5	<0.2
1354175	Soil	11	0.14	142	0.012	1	0.65	0.005	0.14	<0.1	0.02	1.8	<0.1	<0.05	2	<0.5	<0.2
1354174	Soil	13	0.22	204	0.018	<1	0.72	0.007	0.11	0.1	0.02	2.8	<0.1	<0.05	2	<0.5	<0.2
1354173	Soil	35	1.05	502	0.081	1	1.63	0.011	0.59	<0.1	0.02	5.4	0.5	<0.05	6	<0.5	<0.2
1354172	Soil	17	0.85	457	0.024	<1	1.06	0.005	0.16	<0.1	0.02	3.0	0.2	<0.05	4	<0.5	<0.2
1354171	Soil	45	0.84	437	0.008	2	1.13	0.023	0.15	<0.1	0.06	6.4	0.1	0.18	4	0.8	0.3
1354170	Soil	62	1.96	475	0.087	1	1.92	0.005	0.38	<0.1	0.07	6.0	0.4	0.10	6	<0.5	<0.2
1354169	Soil	65	1.98	591	0.081	1	2.02	0.007	0.31	<0.1	0.04	7.2	0.4	<0.05	7	<0.5	<0.2
1354168	Soil	28	1.63	219	0.002	<1	1.49	0.003	0.13	<0.1	0.09	2.5	0.2	0.08	5	<0.5	<0.2
1354166	Soil	26	2.72	150	0.004	<1	2.07	0.005	0.12	<0.1	<0.01	1.9	0.1	0.20	6	0.6	0.2
1354164	Soil	92	2.31	425	0.021	<1	2.16	0.011	0.20	<0.1	0.04	5.5	0.2	0.13	7	<0.5	<0.2
1354167	Soil	62	2.07	352	0.077	<1	1.93	0.020	0.34	<0.1	0.03	3.9	0.2	0.53	7	<0.5	0.2
1354163	Soil	60	1.92	913	0.037	2	1.99	0.008	0.15	<0.1	0.16	6.6	0.3	0.11	6	0.8	<0.2
1354161	Soil	19	0.32	335	0.024	<1	0.95	0.009	0.08	0.1	0.03	3.8	<0.1	<0.05	3	<0.5	<0.2
1354162	Soil	52	0.86	483	0.032	1	1.42	0.011	0.11	0.1	0.03	5.3	0.1	<0.05	5	<0.5	<0.2



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		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
1354159	Soil	0.4	9.8	21.5	38	<0.1	9.6	3.4	101	1.30	5.9	<0.5	9.8	14	0.1	0.4	0.2	21	0.09	0.024	27
1354160	Soil	0.6	4.4	10.7	37	<0.1	7.3	3.5	155	1.63	3.6	1.4	6.0	16	<0.1	0.3	0.1	27	0.20	0.047	18
1354157	Soil	0.4	4.5	13.6	18	<0.1	4.0	1.9	76	0.88	2.3	1.7	5.3	9	<0.1	0.4	0.1	17	0.07	0.009	19
1354158	Soil	0.4	9.0	28.7	51	<0.1	5.5	2.7	110	1.53	4.3	<0.5	13.7	6	<0.1	0.4	0.2	17	0.04	0.010	45
1354155	Soil	0.9	19.9	46.1	73	0.2	31.6	11.4	418	3.66	14.3	3.2	9.2	26	0.1	0.8	0.1	54	0.28	0.032	23
1354156	Soil	0.3	7.7	15.9	23	<0.1	7.1	4.1	76	1.22	6.8	11.2	5.0	12	<0.1	0.6	<0.1	19	0.11	0.023	15
1354153	Soil	0.3	70.7	15.3	74	0.1	81.9	21.3	1334	3.92	36.6	3.3	3.8	18	0.1	5.1	<0.1	39	3.59	0.075	14
1354154	Soil	0.5	80.8	10.1	116	0.2	252.4	42.7	1492	6.29	31.7	3.8	6.4	17	0.2	0.7	0.1	94	0.49	0.092	21
1354151	Soil	1.3	58.1	17.4	117	<0.1	294.0	37.9	1941	5.89	4.3	1.2	5.1	11	0.3	0.5	<0.1	147	0.50	0.102	18
1354152	Soil	1.0	56.2	13.8	102	<0.1	228.1	30.0	1005	5.99	36.0	0.9	3.9	12	<0.1	3.7	0.2	118	0.36	0.064	11
1354183	Soil	0.7	38.2	33.0	48	0.1	76.3	16.3	660	3.24	5.2	<0.5	12.7	28	<0.1	0.8	0.2	20	1.16	0.044	33
1354182	Soil	0.8	69.7	14.3	105	0.2	110.8	25.2	763	4.72	4.9	3.1	9.0	15	<0.1	0.5	0.2	50	0.58	0.060	37
1354181	Soil	0.4	84.8	11.4	130	<0.1	221.1	30.8	1213	7.01	58.9	4.2	4.3	9	0.2	7.4	0.2	101	0.30	0.061	22
1354180	Soil	0.6	93.4	21.7	112	<0.1	291.0	38.8	1584	6.40	15.5	2.6	4.9	10	0.3	1.8	0.3	185	0.35	0.061	17
1354179	Soil	0.2	67.5	9.9	73	<0.1	44.7	14.1	847	4.00	40.4	3.0	3.8	20	0.3	2.2	0.1	26	4.14	0.091	13
1354178	Soil	0.9	22.2	11.7	74	0.2	12.0	13.9	872	4.38	3.4	2.6	11.8	21	<0.1	0.4	0.1	25	1.03	0.174	35
1354177	Soil	0.8	10.0	25.5	36	<0.1	9.8	3.2	71	1.36	79.8	<0.5	14.8	7	0.1	0.6	0.2	8	0.06	0.027	52
1354176	Soil	0.3	15.8	13.0	81	<0.1	11.1	9.6	131	2.10	5.7	1.1	7.6	33	<0.1	0.6	0.1	20	0.32	0.038	23
1502109	Soil	0.8	316.5	5.3	338	<0.1	15.9	11.3	801	4.00	4.1	9.2	6.0	17	0.2	0.3	0.1	42	0.32	0.033	29
1502108	Soil	1.4	165.5	27.7	188	0.2	32.7	25.8	1921	4.95	4.8	7.1	5.5	28	0.8	0.4	0.3	95	0.74	0.080	17
1502134	Soil	1.2	69.6	46.6	93	0.3	20.0	9.1	459	3.06	7.9	7.0	7.8	34	0.2	0.7	0.6	40	0.49	0.058	25
1502133	Soil	1.6	115.0	54.2	137	0.3	25.7	18.1	1572	4.30	9.5	11.9	7.0	34	0.4	0.7	0.6	62	0.52	0.106	20
1502115	Soil	0.8	119.3	26.9	76	0.1	31.2	23.5	1359	5.06	5.3	3.5	4.9	20	0.2	0.5	0.1	85	0.65	0.058	14
1502114	Soil	0.6	52.4	16.4	79	0.1	23.7	12.3	678	3.07	7.0	3.7	5.2	27	0.2	0.6	0.2	54	0.80	0.049	19
1502113	Soil	0.7	59.4	15.6	82	0.1	24.0	14.6	866	3.32	6.3	2.8	4.9	31	0.2	0.5	0.1	59	0.74	0.049	16
1502110	Soil	1.0	170.6	420.2	367	0.4	22.7	23.4	1452	4.45	16.9	25.1	10.8	10	0.3	0.4	0.1	56	0.29	0.054	33
1502111	Soil	0.7	59.5	70.6	174	0.1	19.0	13.7	1614	3.06	4.9	1.4	5.3	37	0.8	0.3	0.2	51	0.79	0.087	14
1502112	Soil	0.2	115.3	6.7	98	<0.1	24.4	31.1	1021	6.21	1.1	2.6	0.8	10	0.2	0.3	<0.1	155	0.69	0.058	4
1502129	Soil	1.2	59.9	28.9	101	0.3	23.5	11.7	523	2.98	9.9	4.6	5.0	39	0.3	0.7	0.3	51	0.57	0.065	19
1502126	Soil	0.6	73.2	15.7	96	0.2	27.8	14.4	528	3.51	5.4	11.9	3.3	27	0.3	0.5	0.1	77	0.59	0.043	13



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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te	
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2		
1354159	Soil	12	0.21	140	0.021	<1	0.71	0.005	0.14	<0.1	<0.01	1.9	0.1	<0.05	2	<0.5	<0.2	
1354160	Soil	12	0.23	231	0.033	<1	0.85	0.006	0.18	0.1	<0.01	1.7	0.1	<0.05	4	<0.5	<0.2	
1354157	Soil	7	0.13	180	0.013	<1	0.59	0.004	0.10	<0.1	<0.01	1.5	<0.1	<0.05	2	<0.5	<0.2	
1354158	Soil	12	0.35	110	0.027	<1	1.05	0.004	0.18	<0.1	<0.01	3.1	0.2	<0.05	3	<0.5	<0.2	
1354155	Soil	47	0.63	480	0.057	1	2.03	0.019	0.10	<0.1	0.02	6.7	<0.1	<0.05	5	<0.5	<0.2	
1354156	Soil	11	0.18	167	0.021	<1	0.69	0.004	0.13	0.1	0.01	1.9	0.1	<0.05	2	<0.5	<0.2	
1354153	Soil	48	0.90	137	0.009	<1	1.22	0.004	0.11	<0.1	0.01	7.4	<0.1	<0.05	3	<0.5	<0.2	
1354154	Soil	240	2.84	309	0.024	<1	3.07	0.004	0.08	<0.1	0.04	11.8	0.1	<0.05	8	<0.5	<0.2	
1354151	Soil	336	3.64	207	0.081	<1	3.55	0.004	0.32	<0.1	0.01	18.1	0.3	<0.05	11	<0.5	<0.2	
1354152	Soil	291	3.03	230	0.017	<1	3.51	0.004	0.11	<0.1	<0.01	11.4	0.1	<0.05	10	<0.5	<0.2	
1354183	Soil	49	0.91	84	0.007	<1	1.50	0.003	0.07	<0.1	<0.01	6.7	<0.1	<0.05	3	<0.5	<0.2	
1354182	Soil	70	1.80	143	0.026	<1	2.42	0.005	0.12	<0.1	0.04	5.0	0.1	<0.05	6	<0.5	<0.2	
1354181	Soil	172	2.28	148	0.011	<1	2.58	0.005	0.11	<0.1	0.04	16.9	0.2	<0.05	7	<0.5	<0.2	
1354180	Soil	345	4.07	334	0.112	<1	3.98	0.005	0.40	<0.1	0.02	19.8	0.3	<0.05	12	<0.5	<0.2	
1354179	Soil	21	0.41	126	0.002	1	0.71	0.004	0.09	<0.1	0.03	6.5	<0.1	<0.05	2	<0.5	<0.2	
1354178	Soil	9	0.57	128	0.006	<1	1.22	0.005	0.07	<0.1	0.03	3.7	<0.1	<0.05	4	<0.5	<0.2	
1354177	Soil	5	0.11	121	0.006	<1	0.44	0.003	0.15	0.2	0.01	0.9	<0.1	<0.05	1	<0.5	<0.2	
1354176	Soil	15	0.69	371	0.059	1	1.32	0.007	0.20	0.1	0.02	2.9	0.3	<0.05	4	<0.5	<0.2	
1502109	Soil	20	0.87	181	0.006	<1	1.78	0.009	0.07	<0.1	0.08	8.6	<0.1	<0.05	5	<0.5	<0.2	
1502108	Soil	51	2.83	337	0.012	1	2.96	0.008	0.08	<0.1	0.10	14.5	<0.1	0.08	8	1.1	<0.2	
1502134	Soil	32	1.23	494	0.026	1	1.87	0.012	0.12	<0.1	0.11	4.9	0.1	0.10	5	0.9	<0.2	
1502133	Soil	40	1.58	409	0.025	<1	1.96	0.009	0.10	<0.1	0.11	6.9	0.1	0.13	6	0.9	<0.2	
1502115	Soil	34	1.43	268	0.024	<1	2.50	0.013	0.04	<0.1	0.04	13.6	<0.1	<0.05	7	<0.5	<0.2	
1502114	Soil	27	0.76	415	0.028	<1	1.80	0.014	0.05	0.1	0.04	7.0	<0.1	<0.05	5	<0.5	<0.2	
1502113	Soil	31	0.91	362	0.024	<1	1.92	0.014	0.04	0.1	0.04	8.0	<0.1	0.06	5	0.9	<0.2	
1502110	Soil	29	1.68	287	0.003	<1	2.19	0.005	0.05	<0.1	0.39	9.8	<0.1	<0.05	5	<0.5	<0.2	
1502111	Soil	28	1.22	422	0.018	2	1.71	0.011	0.06	0.1	0.05	6.3	<0.1	0.06	5	<0.5	<0.2	
1502112	Soil	40	3.10	253	0.008	<1	3.55	0.004	0.02	<0.1	0.01	21.3	<0.1	<0.05	10	<0.5	<0.2	
1502129	Soil	34	0.86	403	0.040	1	1.61	0.014	0.08	0.2	0.09	5.0	0.1	<0.05	5	<0.5	<0.2	
1502126	Soil	39	1.21	312	0.040	<1	2.34	0.014	0.04	0.1	0.05	10.5	<0.1	<0.05	6	<0.5	<0.2	



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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
1502128	Soil	1.0	57.0	27.0	146	0.1	24.9	14.1	832	3.48	7.5	0.5	3.5	33	0.4	0.5	0.4	69	0.54	0.064	13
1502130	Soil	0.7	213.8	14.0	184	<0.1	24.6	20.8	1444	4.90	2.6	6.6	7.9	15	0.3	0.4	0.1	81	0.54	0.083	27
1502132	Soil	1.0	43.9	14.1	67	<0.1	24.0	10.0	265	2.60	8.2	4.6	13.1	18	0.1	0.6	0.2	50	0.24	0.045	28
1502127	Soil	0.9	48.8	26.8	125	0.1	22.9	11.2	595	3.03	6.3	1.8	3.6	31	0.5	0.4	0.2	63	0.50	0.039	14
1502131	Soil	7.5	959.3	34.9	773	0.5	17.7	27.0	2145	5.45	4.2	28.8	5.4	11	1.3	0.5	0.3	57	0.20	0.072	24
1502116	Soil	0.6	121.9	18.4	89	0.1	30.7	29.2	1489	5.18	3.7	1.9	2.9	20	0.2	0.4	<0.1	107	2.67	0.055	10
1502125	Soil	0.5	158.7	23.3	160	0.1	24.9	18.3	1253	3.73	2.7	6.2	7.7	15	0.6	0.3	0.1	51	0.47	0.085	23
1502124	Soil	0.4	141.5	37.2	166	<0.1	15.6	19.6	1669	4.47	1.8	5.5	5.7	17	0.6	0.3	0.2	80	0.48	0.110	24
1502119	Soil	0.3	65.0	95.2	180	0.2	27.5	17.7	808	3.97	14.3	8.6	3.0	16	0.7	0.6	<0.1	83	0.38	0.036	11
1502122	Soil	0.5	222.8	13.7	178	0.1	41.0	27.3	3144	5.81	2.1	4.2	2.0	10	0.2	0.3	<0.1	121	0.38	0.091	11
1502123	Soil	0.7	200.7	19.7	214	0.1	46.8	28.8	2861	5.62	1.6	3.0	2.0	13	0.7	0.2	<0.1	119	2.32	0.092	11
1502117	Soil	0.9	40.2	88.1	219	0.2	11.3	7.6	967	2.85	5.6	4.6	16.8	14	1.0	0.4	0.4	15	0.34	0.087	47
1502121	Soil	2.1	436.2	28.5	545	0.8	20.7	23.1	3073	5.07	3.0	8.4	3.6	20	0.8	0.3	0.3	79	0.23	0.064	16
1502118	Soil	0.5	58.6	31.8	203	0.1	9.4	3.4	494	2.29	4.1	<0.5	9.3	14	0.3	0.3	1.5	12	0.28	0.042	30
1502120	Soil	0.7	129.3	21.2	150	0.1	24.3	19.5	2054	4.47	1.7	7.2	2.9	13	0.5	0.3	<0.1	64	0.71	0.090	15



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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1502128	Soil	42	1.07	384	0.039	<1	1.89	0.012	0.05	0.2	0.05	6.6	<0.1	<0.05	5	<0.5	<0.2
1502130	Soil	48	2.32	476	0.004	<1	3.04	0.005	0.07	<0.1	0.04	14.1	<0.1	<0.05	8	0.6	<0.2
1502132	Soil	30	0.70	360	0.041	<1	1.59	0.014	0.06	0.2	0.03	4.3	<0.1	<0.05	4	<0.5	<0.2
1502127	Soil	33	0.84	361	0.035	<1	1.92	0.014	0.04	0.1	0.04	7.0	<0.1	<0.05	6	0.6	<0.2
1502131	Soil	24	2.17	613	0.005	<1	2.60	0.003	0.04	<0.1	2.81	8.7	<0.1	<0.05	7	0.8	<0.2
1502116	Soil	33	1.68	304	0.010	<1	3.00	0.008	0.03	<0.1	0.04	17.7	<0.1	<0.05	8	<0.5	<0.2
1502125	Soil	31	1.13	212	0.007	<1	1.81	0.007	0.05	<0.1	0.06	10.3	<0.1	<0.05	5	<0.5	<0.2
1502124	Soil	21	1.68	201	0.007	<1	2.53	0.004	0.04	<0.1	0.04	12.6	<0.1	<0.05	8	<0.5	<0.2
1502119	Soil	31	1.50	211	0.022	<1	2.05	0.008	0.03	0.1	0.09	12.2	<0.1	<0.05	5	<0.5	<0.2
1502122	Soil	88	3.03	482	0.009	<1	3.66	0.004	0.01	<0.1	0.09	18.2	<0.1	<0.05	10	<0.5	<0.2
1502123	Soil	136	3.25	343	0.004	<1	3.71	0.004	0.02	<0.1	0.02	20.4	<0.1	<0.05	9	<0.5	<0.2
1502117	Soil	10	0.46	375	0.006	<1	1.22	0.007	0.05	<0.1	0.12	4.8	<0.1	<0.05	3	<0.5	<0.2
1502121	Soil	38	2.78	481	0.005	<1	2.90	0.012	0.03	<0.1	0.21	12.5	<0.1	<0.05	8	0.8	0.5
1502118	Soil	10	0.52	228	0.004	<1	1.15	0.005	0.06	<0.1	0.03	4.6	<0.1	<0.05	4	<0.5	<0.2
1502120	Soil	53	2.36	308	0.007	<1	2.86	0.005	0.03	<0.1	0.06	12.2	<0.1	<0.05	8	<0.5	<0.2



QUALITY CONTROL REPORT

WHI15000230.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	ppm	
MDL		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001	1	
Pulp Duplicates																					
1354416	Soil	0.7	152.3	16.3	157	0.3	17.8	32.3	1340	4.94	5.8	4.6	4.4	16	0.2	0.4	0.4	80	0.48	0.049	12
REP 1354416	QC	0.7	150.1	16.3	150	0.3	17.9	31.3	1306	4.79	6.0	3.0	4.4	16	0.1	0.4	0.5	79	0.47	0.048	12
1463163	Soil	0.8	43.6	18.7	70	0.1	53.9	15.7	652	3.46	10.0	1.0	5.5	35	0.2	1.0	0.3	52	0.88	0.071	20
REP 1463163	QC	0.7	43.0	18.1	70	0.1	52.4	15.4	607	3.40	9.6	3.8	5.5	35	0.3	0.9	0.2	51	0.86	0.070	20
1354345	Soil	0.4	13.3	15.4	44	<0.1	11.3	4.5	211	1.75	4.1	<0.5	13.2	19	<0.1	0.4	0.2	20	0.22	0.042	39
REP 1354345	QC	0.4	13.2	15.4	45	<0.1	12.0	4.5	210	1.86	3.7	0.6	12.8	19	<0.1	0.3	0.2	20	0.21	0.041	38
1354324	Soil	0.7	306.9	11.9	56	0.3	15.7	8.3	332	2.45	6.0	8.6	4.7	25	0.1	0.6	0.2	34	0.32	0.036	16
REP 1354324	QC	0.7	298.7	11.6	56	0.3	16.0	7.9	318	2.33	6.1	1.6	4.9	25	0.1	0.6	0.2	34	0.33	0.035	16
1354115	Soil	1.0	34.1	20.5	62	<0.1	9.2	7.0	240	1.61	5.9	1.4	7.7	12	<0.1	0.6	0.2	25	0.14	0.013	12
REP 1354115	QC	1.0	35.3	22.0	62	<0.1	10.3	7.2	252	1.66	6.0	2.4	7.5	12	<0.1	0.5	0.2	26	0.15	0.014	12
1502371	Soil	0.2	4.9	26.5	8	<0.1	1.8	0.7	48	0.46	1.5	3.0	16.3	13	<0.1	0.2	0.2	3	0.06	0.005	61
REP 1502371	QC	0.2	5.1	26.1	8	<0.1	1.9	0.7	47	0.45	1.7	0.6	16.2	14	<0.1	0.3	0.2	4	0.06	0.005	62
1354155	Soil	0.9	19.9	46.1	73	0.2	31.6	11.4	418	3.66	14.3	3.2	9.2	26	0.1	0.8	0.1	54	0.28	0.032	23
REP 1354155	QC	0.9	19.0	46.2	73	0.2	31.2	11.1	424	3.61	14.9	1.8	9.6	26	0.2	0.8	0.1	54	0.28	0.032	23
1502129	Soil	1.2	59.9	28.9	101	0.3	23.5	11.7	523	2.98	9.9	4.6	5.0	39	0.3	0.7	0.3	51	0.57	0.065	19
REP 1502129	QC	1.2	60.8	28.7	102	0.3	24.2	11.3	526	2.96	9.3	4.0	4.8	38	0.3	0.7	0.3	51	0.57	0.064	18
Reference Materials																					
STD DS10	Standard	15.2	153.9	146.1	364	2.0	77.2	12.9	890	2.84	44.9	103.5	7.4	67	2.7	9.2	11.3	45	1.07	0.078	19
STD DS10	Standard	15.3	146.5	140.8	345	1.9	71.4	12.4	859	2.74	42.7	66.1	7.2	68	2.3	9.0	11.7	44	1.03	0.069	18
STD DS10	Standard	14.9	148.4	149.1	355	1.9	71.4	12.2	826	2.64	44.0	87.5	7.5	69	2.5	9.0	11.7	44	1.00	0.071	18
STD DS10	Standard	14.2	153.3	145.8	362	2.0	75.6	12.5	867	2.81	44.3	118.3	7.3	67	2.5	8.8	12.5	43	1.06	0.076	18
STD DS10	Standard	14.0	158.0	148.9	368	2.0	76.0	13.0	899	2.84	44.2	88.7	7.2	69	2.6	9.2	12.1	45	1.05	0.076	19
STD DS10	Standard	14.0	150.5	145.7	355	1.9	74.0	13.0	885	2.75	43.8	71.1	7.4	66	2.6	8.8	11.9	45	1.04	0.077	18
STD DS10	Standard	14.1	153.8	146.8	373	1.9	74.4	12.9	891	2.88	43.5	75.9	7.3	71	2.8	9.1	11.4	45	1.09	0.076	18
STD DS10	Standard	13.5	149.0	152.3	354	1.9	72.7	12.5	853	2.76	44.5	95.8	7.4	68	2.4	8.9	11.9	43	1.03	0.074	18
STD OXC129	Standard	1.3	26.1	6.1	38	<0.1	76.9	18.9	388	2.85	<0.5	182.9	1.7	179	<0.1	<0.1	<0.1	51	0.64	0.094	13
STD OXC129	Standard	1.1	27.2	6.4	40	<0.1	78.0	19.9	407	3.00	<0.5	199.0	1.7	188	<0.1	<0.1	<0.1	51	0.66	0.093	12
STD OXC129	Standard	1.0	25.8	6.2	37	<0.1	75.4	19.5	396	2.87	<0.5	189.2	1.7	178	<0.1	<0.1	<0.1	51	0.64	0.089	12



QUALITY CONTROL REPORT

WHI15000230.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																	
1354416	Soil	22	1.47	355	0.007	<1	2.35	0.010	0.04	<0.1	0.07	9.8	<0.1	<0.05	6	<0.5	<0.2
REP 1354416	QC	21	1.41	347	0.007	<1	2.24	0.005	0.04	<0.1	0.08	9.4	<0.1	<0.05	6	<0.5	<0.2
1463163	Soil	54	0.89	408	0.026	2	1.76	0.013	0.09	0.1	0.04	5.8	<0.1	<0.05	5	<0.5	<0.2
REP 1463163	QC	52	0.87	415	0.027	1	1.77	0.013	0.09	<0.1	0.03	5.8	<0.1	<0.05	5	0.6	<0.2
1354345	Soil	15	0.34	406	0.046	<1	1.01	0.007	0.24	<0.1	0.02	3.6	0.2	<0.05	3	<0.5	<0.2
REP 1354345	QC	15	0.33	401	0.045	<1	0.95	0.007	0.23	<0.1	0.01	3.5	0.2	<0.05	3	<0.5	<0.2
1354324	Soil	20	0.34	650	0.029	<1	1.15	0.011	0.07	0.1	0.06	3.5	<0.1	<0.05	3	<0.5	<0.2
REP 1354324	QC	20	0.34	658	0.029	<1	1.17	0.011	0.07	0.1	0.06	3.7	<0.1	<0.05	3	<0.5	<0.2
1354115	Soil	19	0.24	343	0.019	<1	0.91	0.006	0.09	<0.1	<0.01	2.4	<0.1	<0.05	2	<0.5	<0.2
REP 1354115	QC	19	0.25	360	0.018	<1	0.95	0.006	0.09	<0.1	<0.01	2.7	<0.1	<0.05	3	<0.5	<0.2
1502371	Soil	3	0.06	517	0.003	<1	0.34	0.004	0.10	<0.1	<0.01	1.6	<0.1	<0.05	1	<0.5	<0.2
REP 1502371	QC	3	0.07	526	0.003	<1	0.34	0.004	0.10	<0.1	<0.01	1.6	<0.1	<0.05	1	<0.5	<0.2
1354155	Soil	47	0.63	480	0.057	1	2.03	0.019	0.10	<0.1	0.02	6.7	<0.1	<0.05	5	<0.5	<0.2
REP 1354155	QC	47	0.65	480	0.057	<1	2.10	0.020	0.11	<0.1	0.02	6.9	0.1	<0.05	5	<0.5	<0.2
1502129	Soil	34	0.86	403	0.040	1	1.61	0.014	0.08	0.2	0.09	5.0	0.1	<0.05	5	<0.5	<0.2
REP 1502129	QC	34	0.85	411	0.039	<1	1.62	0.013	0.08	0.2	0.09	5.0	0.1	0.08	4	<0.5	<0.2
Reference Materials																	
STD DS10	Standard	56	0.77	371	0.082	6	1.03	0.067	0.35	3.4	0.31	3.2	5.2	0.25	5	2.5	4.7
STD DS10	Standard	56	0.79	337	0.081	7	1.05	0.063	0.34	3.2	0.29	2.9	4.9	0.27	4	1.5	4.7
STD DS10	Standard	54	0.76	340	0.079	7	1.03	0.070	0.33	3.0	0.28	3.0	5.0	0.29	4	2.0	5.1
STD DS10	Standard	54	0.82	355	0.077	6	1.09	0.080	0.34	3.4	0.28	3.4	5.0	0.30	5	2.4	4.7
STD DS10	Standard	57	0.80	372	0.082	7	1.08	0.067	0.34	3.2	0.30	2.9	5.0	0.30	5	2.2	5.3
STD DS10	Standard	54	0.79	346	0.077	8	1.04	0.072	0.34	3.3	0.30	3.2	5.0	0.26	5	2.3	4.8
STD DS10	Standard	56	0.80	343	0.082	7	1.07	0.067	0.35	3.2	0.28	3.0	5.3	0.32	5	2.4	4.6
STD DS10	Standard	54	0.79	345	0.077	7	1.03	0.065	0.33	3.3	0.27	2.8	4.9	0.30	5	2.2	5.5
STD OXC129	Standard	49	1.50	49	0.358	<1	1.52	0.575	0.38	<0.1	<0.01	1.6	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	51	1.51	47	0.383	<1	1.52	0.567	0.36	<0.1	<0.01	0.8	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	50	1.44	46	0.376	1	1.44	0.553	0.35	<0.1	<0.01	1.0	<0.1	<0.05	5	<0.5	<0.2



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Project: JPL
Report Date: December 11, 2015

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Part: 1 of 2

QUALITY CONTROL REPORT

WHI15000230.1

		AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm
		0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	1
STD OXC129	Standard	1.2	27.1	6.3	40	<0.1	78.2	20.4	421	3.07	<0.5	191.0	1.8	189	<0.1	<0.1	<0.1	51	0.63	0.100	13
STD OXC129	Standard	1.2	25.9	6.0	39	<0.1	76.3	19.6	397	2.94	<0.5	186.4	1.6	178	<0.1	<0.1	<0.1	50	0.62	0.087	12
STD OXC129	Standard	1.3	28.0	6.5	41	<0.1	79.2	20.1	412	3.03	<0.5	197.3	1.7	189	<0.1	<0.1	<0.1	52	0.67	0.100	13
STD OXC129	Standard	1.4	26.9	6.2	40	<0.1	78.6	20.6	418	3.13	0.5	190.5	1.9	187	<0.1	<0.1	<0.1	54	0.68	0.098	13
STD OXC129	Standard	1.3	26.7	6.2	39	<0.1	77.5	20.0	404	3.00	0.6	190.6	1.7	188	<0.1	<0.1	<0.1	52	0.66	0.097	13
STD DS10 Expected		15.1	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	91.9	7.5	67.1	2.62	9	11.65	43	1.0625	0.0765	17.5
STD OXC129 Expected		1.3	28	6.3	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.665	0.102	13
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1
BLK	Blank	<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001	<1



QUALITY CONTROL REPORT

WHI15000230.1

		AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	
		Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
		ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
		1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5	0.2
STD OXC129	Standard	51	1.61	48	0.373	1	1.51	0.593	0.38	<0.1	<0.01	1.8	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	50	1.50	46	0.364	<1	1.46	0.560	0.36	<0.1	<0.01	0.7	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	52	1.52	52	0.391	1	1.54	0.592	0.39	<0.1	<0.01	1.8	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	53	1.59	49	0.407	1	1.58	0.609	0.38	<0.1	0.01	1.3	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	51	1.57	48	0.390	1	1.57	0.594	0.37	<0.1	<0.01	0.9	<0.1	<0.05	6	<0.5	<0.2
STD DS10 Expected		54.6	0.775	359	0.0817		1.0755	0.067	0.338	3.32	0.3	3	5.1	0.29	4.5	2.3	5.01
STD OXC129 Expected		52	1.545	50	0.4	1	1.58	0.6	0.37			1.1			5.6		
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2



BUREAU VERITAS MINERAL LABORATORIES
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Submitted By: Morgan Fraughton
Receiving Lab: Canada-Whitehorse
Received: October 27, 2015
Report Date: December 11, 2015
Page: 1 of 3

CERTIFICATE OF ANALYSIS

WHI15000233.1

CLIENT JOB INFORMATION

Project: JPL
Shipment ID:
P.O. Number
Number of Samples: 39

SAMPLE DISPOSAL

PICKUP-PLP Client to Pickup Pulps
PICKUP-RJT Client to Pickup Rejects

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

Invoice To: Spere Exploration Inc.
Box 1381
Dawson City YT Y0B 1G0
CANADA

CC:

SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
PRP70-250	39	Crush, split and pulverize 250 g rock to 200 mesh			WHI
AQ201	39	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN
SHP01	39	Per sample shipping charges for branch shipments			VAN

ADDITIONAL COMMENTS



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



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Project: JPL
Report Date: December 11, 2015

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Part: 1 of 2

CERTIFICATE OF ANALYSIS

WHI15000233.1

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	2	0.01	0.001		
1502051	Rock	0.52	0.4	5.8	16.1	48	<0.1	2.3	2.2	391	0.73	1.6	2.3	0.5	3	<0.1	0.2	<0.1	4	0.06	0.007
1502052	Rock	1.38	0.2	5.8	5.5	17	<0.1	1.5	0.9	190	0.53	1.3	<0.5	0.5	7	<0.1	0.2	<0.1	<2	0.18	0.003
1502053	Rock	1.89	0.1	4.5	10.0	12	<0.1	0.8	0.3	90	0.30	0.8	<0.5	0.3	6	<0.1	0.2	<0.1	<2	0.06	0.005
1502054	Rock	0.73	1.3	834.2	134.4	2017	4.7	5.1	26.6	1307	7.40	84.6	22.2	1.4	36	14.9	0.5	31.2	48	1.26	0.028
1502055	Rock	1.48	<0.1	31.2	10.5	180	0.1	0.9	1.8	659	0.81	1.6	3.1	0.3	78	4.0	<0.1	0.5	8	2.68	0.014
1502059	Rock	2.51	2.2	48.3	337.5	48	1.9	1.6	1.3	45	0.78	9.0	9.8	7.0	40	0.3	2.6	0.5	4	0.02	0.016
1502060	Rock	1.23	0.3	20.7	27.4	54	0.1	14.4	8.2	614	2.01	23.4	3.3	22.1	13	<0.1	0.6	0.1	14	0.19	0.035
1502061	Rock	0.55	0.1	8.6	10.5	13	<0.1	1.2	0.8	113	0.37	3.6	1.9	0.9	51	<0.1	0.2	0.2	3	0.64	0.255
1502062	Rock	0.69	3.3	706.1	86.4	161	2.8	89.3	17.1	713	3.87	4.5	18.0	6.2	14	0.4	0.2	14.7	34	0.10	0.036
1502063	Rock	1.22	<0.1	4.6	25.1	9	0.2	0.9	0.3	66	0.27	<0.5	1.6	1.0	4	<0.1	<0.1	2.0	<2	<0.01	0.006
1502064	Rock	0.89	<0.1	5.5	9.3	19	<0.1	269.8	20.8	2497	3.01	184.5	2.0	<0.1	541	0.3	10.8	<0.1	12	13.93	0.002
1502065	Rock	1.27	<0.1	7.7	2.7	10	<0.1	1.5	0.4	90	0.35	1.4	<0.5	<0.1	4	<0.1	<0.1	<0.1	<2	0.06	0.001
1502066	Rock	0.79	1.6	31.3	11.3	22	<0.1	4.9	5.8	111	2.26	31.6	0.5	8.6	7	<0.1	0.2	1.4	6	0.04	0.025
1502067	Rock	1.11	1.0	4.0	8.4	25	0.1	0.6	0.3	27	3.31	2.2	<0.5	13.4	48	<0.1	<0.1	0.2	5	<0.01	0.025
1502068	Rock	1.27	0.2	17.1	6.3	20	<0.1	1.6	1.0	383	0.44	1.1	1.2	0.2	17	0.2	<0.1	<0.1	<2	0.12	0.020
1502069	Rock	1.07	0.5	26.5	11.6	28	0.3	1.9	0.6	75	0.53	0.9	1.2	1.4	7	0.2	0.1	<0.1	2	0.04	0.010
1502071	Rock	0.86	1.6	6.4	9.0	11	0.2	0.7	0.1	25	1.13	2.5	0.7	11.5	3	<0.1	0.2	<0.1	<2	<0.01	0.010
1502301	Rock	0.78	0.9	18.2	7.0	9	<0.1	2.0	4.2	132	2.30	3.2	<0.5	16.1	5	<0.1	0.2	1.3	6	<0.01	0.013
1502302	Rock	1.38	0.3	53.0	3.4	7	<0.1	1.6	2.0	97	0.76	1.1	<0.5	8.6	6	<0.1	0.1	0.3	<2	0.01	0.013
1502303	Rock	1.43	0.9	28.5	17.6	37	0.1	3.3	2.2	86	6.68	1.7	3.8	10.9	20	<0.1	0.2	0.2	11	0.01	0.032
1502492	Rock	1.15	0.4	191.7	7.2	53	<0.1	2.2	2.5	511	0.80	1.0	<0.5	1.0	8	0.2	0.3	<0.1	3	0.03	0.012
1502493	Rock	1.34	0.1	25.3	65.7	18	0.7	0.6	0.2	41	0.38	4.5	14.2	0.2	27	0.1	5.5	1.6	<2	<0.01	0.005
1502494	Rock	2.83	<0.1	4.7	6.7	7	0.2	0.7	0.2	37	0.36	3.3	1.8	0.1	18	<0.1	2.3	0.2	<2	<0.01	<0.001
1502498	Rock	2.10	0.3	282.6	120.7	49	27.2	1.2	0.6	64	0.87	141.8	28973.7	0.5	51	1.5	174.7	115.2	<2	<0.01	0.013
1502499	Rock	0.95	<0.1	117.1	30.5	62	0.5	1.4	3.0	302	0.56	2.1	15.4	1.2	19	0.2	0.4	1.0	<2	0.01	0.004
1354001	Rock	0.96	0.2	7.6	6.9	15	0.2	1.7	1.2	88	0.51	1.7	37.4	2.0	4	<0.1	0.8	0.5	3	0.02	0.002
1354002	Rock	1.76	0.6	15.0	16.8	27	<0.1	10.7	5.6	94	0.87	12.9	<0.5	5.0	10	0.2	0.7	0.2	13	0.13	0.047
1354003	Rock	1.29	<0.1	5.3	5.6	5	<0.1	0.5	0.2	23	0.26	0.7	1.4	0.7	8	<0.1	0.2	0.9	<2	0.04	0.001
1354004	Rock	0.78	0.7	17.8	18.6	12	0.5	0.8	0.2	33	0.80	4.8	37.9	0.8	39	<0.1	0.5	3.2	2	0.01	0.008
1354145	Rock	1.25	0.3	18.9	13.5	63	<0.1	27.2	18.5	997	3.86	1.0	<0.5	6.6	62	<0.1	0.2	<0.1	46	3.90	0.116



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Project: JPL
Report Date: December 11, 2015

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CERTIFICATE OF ANALYSIS

WHI15000233.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	TI	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.01	0.01	0.1	0.05	1	0.5	0.2	
1502051	Rock	1	3	0.04	112	0.002	<1	0.10	0.005	0.02	<0.1	0.02	1.2	<0.1	<0.05	<1	<0.5	<0.2
1502052	Rock	1	2	0.02	254	0.002	<1	0.08	0.004	0.02	<0.1	<0.01	0.6	<0.1	<0.05	<1	<0.5	<0.2
1502053	Rock	<1	2	<0.01	293	<0.001	<1	0.03	0.003	0.01	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2
1502054	Rock	6	6	0.96	493	0.004	<1	1.52	0.008	0.09	<0.1	2.30	5.1	<0.1	0.06	5	7.3	0.2
1502055	Rock	2	2	0.17	152	0.001	<1	0.35	0.007	0.05	<0.1	<0.01	1.5	<0.1	<0.05	1	<0.5	<0.2
1502059	Rock	13	4	0.05	851	0.002	<1	0.22	0.074	0.13	<0.1	2.21	0.9	0.2	0.14	<1	0.8	<0.2
1502060	Rock	64	8	0.21	365	0.002	<1	0.89	0.022	0.26	<0.1	0.04	6.0	0.1	<0.05	4	<0.5	<0.2
1502061	Rock	2	3	0.03	126	0.004	1	0.12	0.004	0.04	<0.1	0.03	0.6	<0.1	<0.05	<1	<0.5	<0.2
1502062	Rock	12	136	2.82	465	0.018	1	2.35	0.011	0.16	<0.1	0.02	4.6	<0.1	0.07	7	2.5	1.9
1502063	Rock	3	2	0.02	45	<0.001	1	0.07	0.003	0.05	<0.1	0.02	0.4	<0.1	<0.05	<1	<0.5	<0.2
1502064	Rock	<1	152	7.26	22	<0.001	2	0.09	0.002	0.03	<0.1	0.02	4.4	<0.1	<0.05	<1	<0.5	<0.2
1502065	Rock	<1	2	<0.01	190	<0.001	<1	<0.01	0.002	<0.01	<0.1	0.02	0.2	<0.1	<0.05	<1	<0.5	<0.2
1502066	Rock	11	4	0.25	153	0.003	2	0.73	0.015	0.24	<0.1	0.01	1.1	<0.1	<0.05	2	0.8	<0.2
1502067	Rock	16	2	<0.01	73	0.001	1	0.14	0.397	0.13	<0.1	0.06	0.3	<0.1	1.15	1	<0.5	<0.2
1502068	Rock	<1	2	0.01	610	0.001	<1	0.06	0.003	0.02	<0.1	0.02	0.3	<0.1	<0.05	<1	<0.5	<0.2
1502069	Rock	2	2	0.01	358	<0.001	<1	0.11	0.015	0.04	<0.1	0.03	0.9	<0.1	<0.05	<1	<0.5	<0.2
1502071	Rock	15	2	<0.01	68	0.002	2	0.18	0.011	0.24	<0.1	0.02	0.7	<0.1	<0.05	<1	<0.5	<0.2
1502301	Rock	25	3	0.04	865	0.003	<1	0.48	0.017	0.20	<0.1	<0.01	1.3	<0.1	<0.05	1	0.9	<0.2
1502302	Rock	22	3	0.03	233	0.001	<1	0.36	0.025	0.19	<0.1	0.02	1.0	<0.1	<0.05	<1	<0.5	<0.2
1502303	Rock	15	6	0.02	345	0.002	1	0.46	0.068	0.33	<0.1	0.02	1.5	<0.1	0.29	2	<0.5	<0.2
1502492	Rock	3	2	0.01	501	0.002	1	0.11	0.005	0.03	<0.1	0.04	0.8	<0.1	<0.05	<1	<0.5	<0.2
1502493	Rock	<1	2	<0.01	1247	<0.001	<1	0.03	0.002	0.02	<0.1	0.10	0.2	<0.1	<0.05	<1	<0.5	<0.2
1502494	Rock	<1	2	<0.01	768	<0.001	<1	0.03	0.002	0.02	<0.1	0.03	0.2	<0.1	<0.05	<1	<0.5	<0.2
1502498	Rock	<1	3	<0.01	1646	<0.001	<1	0.06	0.001	0.03	<0.1	4.38	0.4	<0.1	0.06	<1	<0.5	<0.2
1502499	Rock	3	2	<0.01	1253	<0.001	1	0.11	0.010	0.07	<0.1	0.03	0.4	<0.1	<0.05	<1	<0.5	<0.2
1354001	Rock	5	3	0.27	120	0.003	<1	0.34	0.008	0.05	<0.1	0.02	0.9	<0.1	<0.05	<1	<0.5	<0.2
1354002	Rock	15	15	0.14	178	0.028	<1	0.48	0.018	0.31	<0.1	0.01	2.3	0.1	<0.05	2	<0.5	<0.2
1354003	Rock	1	2	<0.01	45	0.002	1	0.13	0.017	0.04	<0.1	<0.01	0.4	<0.1	<0.05	<1	<0.5	<0.2
1354004	Rock	2	2	<0.01	489	0.002	<1	0.07	0.004	0.15	<0.1	0.07	0.3	<0.1	0.21	<1	0.9	<0.2
1354145	Rock	22	50	1.57	187	0.101	1	2.12	0.025	0.26	<0.1	<0.01	5.6	<0.1	<0.05	5	<0.5	<0.2



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CERTIFICATE OF ANALYSIS

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Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
1354147	Rock	1.58	0.8	12.3	17.5	23	0.2	1.4	0.7	36	1.59	20.0	<0.5	26.7	4	<0.1	0.6	<0.1	<2	<0.01	0.012
1354165	Rock	1.44	0.3	32.9	19.1	61	<0.1	28.0	16.3	398	2.63	1.5	0.8	7.1	76	0.2	0.4	<0.1	41	1.24	0.070
1354300	Rock	1.51	<0.1	7.1	2.4	13	0.1	0.9	0.3	66	0.36	<0.5	2.5	1.2	1	<0.1	0.5	<0.1	<2	0.01	0.003
1354449	Rock	1.28	0.2	46.6	8.2	72	<0.1	1.5	8.1	508	3.46	1.6	1.6	1.6	22	<0.1	0.2	<0.1	25	0.40	0.117
1354450	Rock	1.28	0.7	637.2	4.9	136	0.3	6.3	23.6	2063	3.82	2.7	26.0	2.1	39	0.6	<0.1	0.1	28	3.49	0.087
1354451	Rock	0.92	3.0	14.1	836.7	1413	>100	2.5	3.5	740	1.30	<0.5	3.7	4.2	8	1.4	0.4	328.4	6	0.07	0.019
1354452	Rock	1.12	1.3	12.9	13.9	38	0.2	1.8	1.9	223	2.15	3.0	1.9	12.1	13	0.3	0.4	0.5	6	0.02	0.039
1354453	Rock	0.88	13.1	28.5	45.1	18	1.5	1.9	1.7	132	10.58	12.0	34.9	7.5	2	0.3	2.7	0.1	16	<0.01	0.007
1354471	Rock	0.81	1.4	13.1	22.9	37	0.2	7.7	2.7	285	0.92	6.7	2.6	11.9	8	0.1	1.1	0.2	5	0.07	0.014



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CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
1354147	Rock	26	2	0.01	80	0.002	<1	0.23	0.015	0.21	0.2	<0.01	0.7	<0.1	<0.05	<1	<0.5	<0.2
1354165	Rock	14	133	1.78	150	0.132	1	1.98	0.033	0.38	<0.1	<0.01	3.5	0.1	<0.05	6	<0.5	<0.2
1354300	Rock	2	2	0.26	34	0.001	<1	0.22	0.005	0.02	<0.1	<0.01	0.5	<0.1	<0.05	<1	<0.5	<0.2
1354449	Rock	3	2	1.36	207	0.030	1	1.83	0.044	0.22	<0.1	<0.01	3.3	<0.1	<0.05	5	<0.5	<0.2
1354450	Rock	11	3	1.44	98	0.002	<1	1.15	0.057	0.07	<0.1	0.01	5.6	<0.1	0.08	3	0.6	<0.2
1354451	Rock	13	6	0.17	623	0.004	1	0.48	0.012	0.11	<0.1	0.02	1.5	<0.1	<0.05	2	10.1	1.7
1354452	Rock	28	2	0.21	109	0.004	<1	0.74	0.029	0.14	<0.1	<0.01	1.5	<0.1	<0.05	3	<0.5	<0.2
1354453	Rock	16	3	0.01	1644	0.001	<1	0.36	0.003	0.15	0.2	<0.01	1.0	<0.1	<0.05	2	0.8	<0.2
1354471	Rock	26	8	0.20	280	0.003	1	0.44	0.014	0.23	4.9	0.05	1.0	<0.1	0.17	1	<0.5	<0.2



QUALITY CONTROL REPORT

WHI15000233.1

Method	WGHT	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
Analyte	Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.5	0.1	1	0.1	0.1	0.1	2	0.01	0.001	
Pulp Duplicates																					
1502053	Rock	1.89	0.1	4.5	10.0	12	<0.1	0.8	0.3	90	0.30	0.8	<0.5	0.3	6	<0.1	0.2	<0.1	<2	0.06	0.005
REP 1502053	QC		0.1	4.4	9.8	12	<0.1	0.7	0.3	89	0.30	1.1	<0.5	0.3	6	<0.1	0.1	<0.1	<2	0.06	0.004
1502499	Rock	0.95	<0.1	117.1	30.5	62	0.5	1.4	3.0	302	0.56	2.1	15.4	1.2	19	0.2	0.4	1.0	<2	0.01	0.004
REP 1502499	QC		0.1	118.2	30.5	61	0.4	1.3	3.1	309	0.57	1.6	7.2	1.2	19	0.2	0.5	0.9	<2	0.01	0.004
Core Reject Duplicates																					
1502061	Rock	0.55	0.1	8.6	10.5	13	<0.1	1.2	0.8	113	0.37	3.6	1.9	0.9	51	<0.1	0.2	0.2	3	0.64	0.255
DUP 1502061	QC		<0.1	8.3	9.1	10	<0.1	1.4	0.9	116	0.36	3.8	<0.5	0.9	49	<0.1	0.2	0.2	3	0.60	0.246
Reference Materials																					
STD DS10	Standard		14.7	160.1	152.7	371	1.9	77.1	13.2	916	2.88	44.4	103.5	7.7	72	2.8	8.7	12.6	48	1.12	0.076
STD DS10	Standard		15.6	175.6	150.3	384	2.0	78.1	13.8	917	2.91	47.3	83.7	7.8	70	2.7	8.9	12.1	48	1.13	0.076
STD DS10	Standard		13.6	157.3	149.6	366	1.9	72.3	12.1	885	2.74	45.1	79.3	7.9	70	2.4	9.8	13.1	43	1.06	0.073
STD OXC129	Standard		1.2	28.1	6.4	39	<0.1	78.1	20.0	418	3.04	0.6	190.2	1.9	193	<0.1	<0.1	<0.1	55	0.69	0.100
STD OXC129	Standard		1.2	29.1	6.3	42	<0.1	81.7	21.5	423	3.16	1.2	189.4	1.9	189	<0.1	<0.1	<0.1	55	0.74	0.105
STD OXC129	Standard		1.3	27.7	6.3	41	<0.1	75.3	19.4	413	3.03	<0.5	177.3	2.1	179	<0.1	<0.1	<0.1	52	0.63	0.099
STD DS10 Expected			15.1	154.61	150.55	370	2.02	74.6	12.9	875	2.7188	46.2	91.9	7.5	67.1	2.62	9	11.65	43	1.0625	0.0765
STD OXC129 Expected			1.3	28	6.3	42.9		79.5	20.3	421	3.065	0.6	195	1.9					51	0.665	0.102
BLK	Blank		<0.1	0.1	<0.1	<1	<0.1	<0.1	<0.1	1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	0.02	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01	<0.001
Prep Wash																					
ROCK-WHI	Prep Blank		0.6	5.5	7.2	42	<0.1	0.9	3.6	478	1.81	6.1	1.3	2.4	28	<0.1	0.3	0.1	23	0.62	0.042
ROCK-WHI	Prep Blank		0.6	6.2	5.7	43	<0.1	0.9	3.6	463	1.81	2.4	1.4	2.5	32	<0.1	0.2	<0.1	23	0.66	0.040



QUALITY CONTROL REPORT

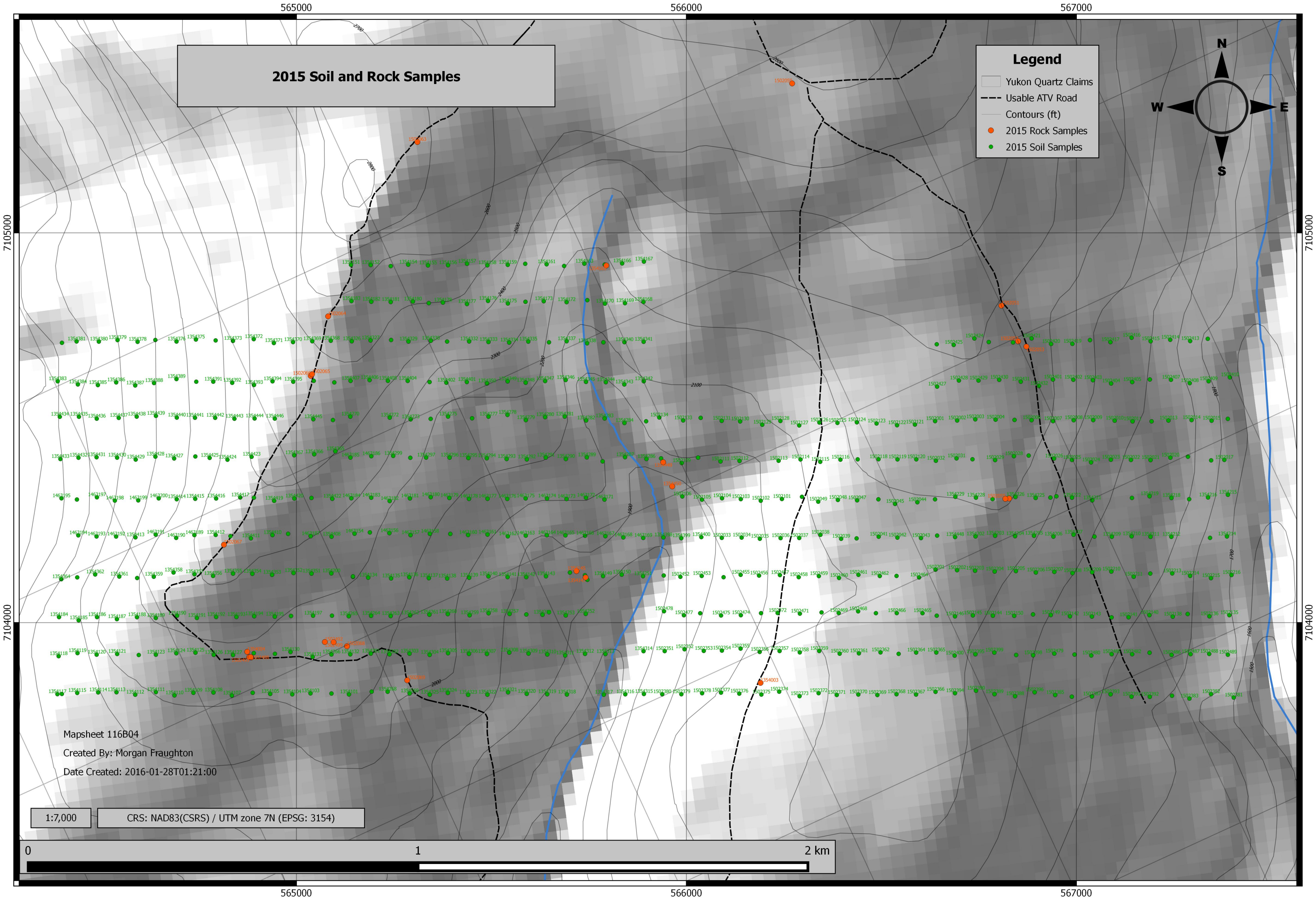
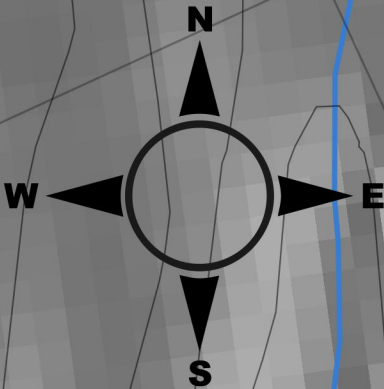
WHI15000233.1

Method	Analyte	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201	AQ201
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se	Te
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	
MDL		1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.05	1	0.5	0.2	
Pulp Duplicates																		
1502053	Rock	<1	2	<0.01	293	<0.001	<1	0.03	0.003	0.01	<0.1	<0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2
REP 1502053	QC	<1	1	<0.01	291	<0.001	<1	0.03	0.003	0.01	<0.1	0.01	0.1	<0.1	<0.05	<1	<0.5	<0.2
1502499	Rock	3	2	<0.01	1253	<0.001	1	0.11	0.010	0.07	<0.1	0.03	0.4	<0.1	<0.05	<1	<0.5	<0.2
REP 1502499	QC	3	2	<0.01	1294	<0.001	<1	0.11	0.010	0.07	<0.1	0.04	0.5	<0.1	<0.05	<1	<0.5	<0.2
Core Reject Duplicates																		
1502061	Rock	2	3	0.03	126	0.004	1	0.12	0.004	0.04	<0.1	0.03	0.6	<0.1	<0.05	<1	<0.5	<0.2
DUP 1502061	QC	2	2	0.03	112	0.004	1	0.12	0.004	0.04	<0.1	0.03	0.5	<0.1	<0.05	<1	<0.5	<0.2
Reference Materials																		
STD DS10	Standard	19	57	0.81	366	0.085	8	1.14	0.067	0.35	3.4	0.29	3.0	5.2	0.29	4	2.9	5.0
STD DS10	Standard	20	60	0.80	372	0.088	4	1.13	0.068	0.35	3.0	0.32	3.2	5.3	0.29	5	1.9	5.2
STD DS10	Standard	17	54	0.77	359	0.079	8	1.03	0.068	0.33	3.4	0.30	2.9	5.1	0.28	4	1.6	4.6
STD OXC129	Standard	12	52	1.52	48	0.407	2	1.61	0.568	0.36	<0.1	<0.01	1.1	<0.1	<0.05	5	<0.5	<0.2
STD OXC129	Standard	13	52	1.55	52	0.398	<1	1.65	0.575	0.37	<0.1	<0.01	0.8	<0.1	<0.05	6	<0.5	<0.2
STD OXC129	Standard	12	51	1.57	47	0.395	<1	1.53	0.593	0.37	<0.1	<0.01	0.9	<0.1	<0.05	5	<0.5	<0.2
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0755	0.067	0.338	3.32	0.3	3	5.1	0.29	4.5	2.3	5.01
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37			1.1			5.6		
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5	<0.2
BLK	Blank	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	0.6	<0.2
Prep Wash																		
ROCK-WHI	Prep Blank	6	2	0.46	60	0.086	<1	0.96	0.076	0.08	0.2	<0.01	2.8	<0.1	<0.05	4	<0.5	<0.2
ROCK-WHI	Prep Blank	6	2	0.42	75	0.091	1	1.00	0.114	0.11	0.2	0.01	3.0	<0.1	<0.05	4	<0.5	<0.2

2015 Soil and Rock Samples

Legend

- Yukon Quartz Claims
- Usable ATV Road
- Contours (ft)
- 2015 Rock Samples
- 2015 Soil Samples



Mapsheet 116B04

Created By: Morgan Fraughton

Date Created: 2016-01-28T01:21:00

1:7,000

CRS: NAD83(CSRS) / UTM zone 7N (EPSG: 3154)



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566000

567000

7105000

7105000

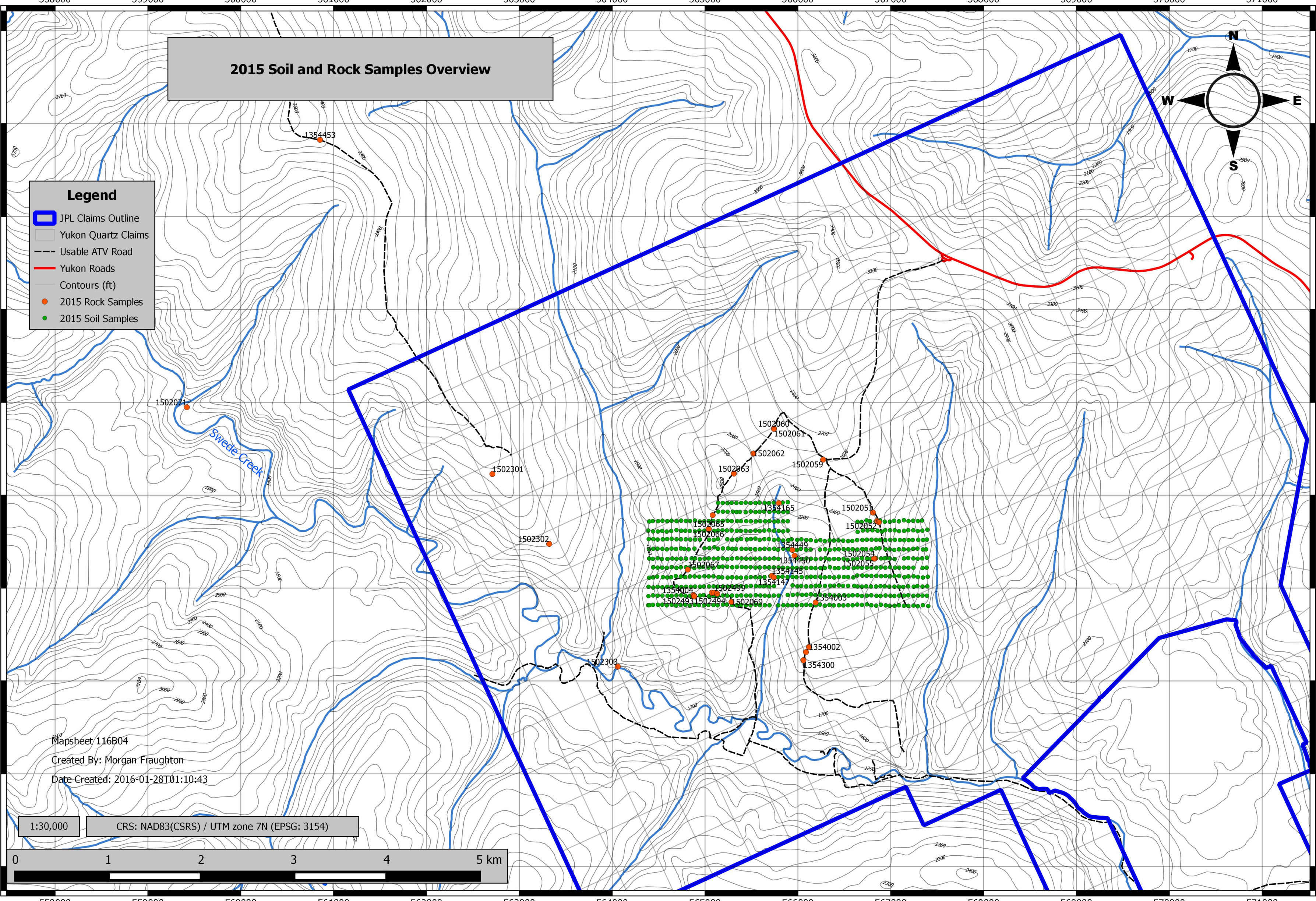
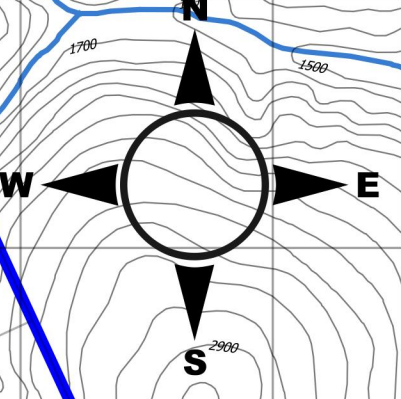
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7104000

2015 Soil and Rock Samples Overview

Legend

- JPL Claims Outline
- Yukon Quartz Claims
- Usable ATV Road
- Yukon Roads
- Contours (ft)
- 2015 Rock Samples
- 2015 Soil Samples



Mapsheet 116B04
Created By: Morgan Fraughton
Date Created: 2016-01-28T01:10:43

1:30,000 CRS: NAD83(CSRS) / UTM zone 7N (EPSG: 3154)

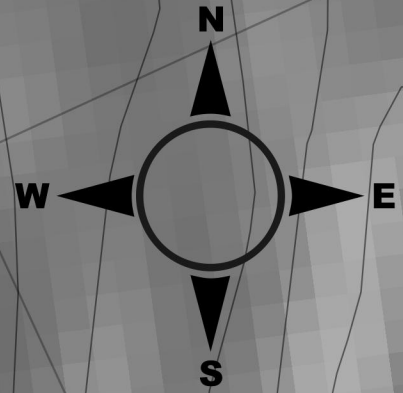
Gold in soil - Areas of high prospectivity

Mapsheet 116B04
Created By: Morgan Fraughton
Date Created: 2016-01-31T14:16:35

Possible larger zone of prospectivity for gold (orange). Samples between the two "pink" zones are all in a heavy layer of frozen/loess/colluvium. Very rarely was "C"-horizon reached in this zone.

Legend

- Usable ATV Road
- yukon_roads
- Yukon Quartz Claims
- Contours (ft)
- 2015 Gold in Soil Samples (PPB)
 - 0-2
 - 2-10
 - 10-20
 - 20-25
 - >25



7105000

7105000

7104000

7104000

29g/t Au found in rock here.

Area of high prospectivity for more gold in Rock

1:7,000 CRS: NAD83(CSRS) / UTM zone 7N (EPSG: 3154)








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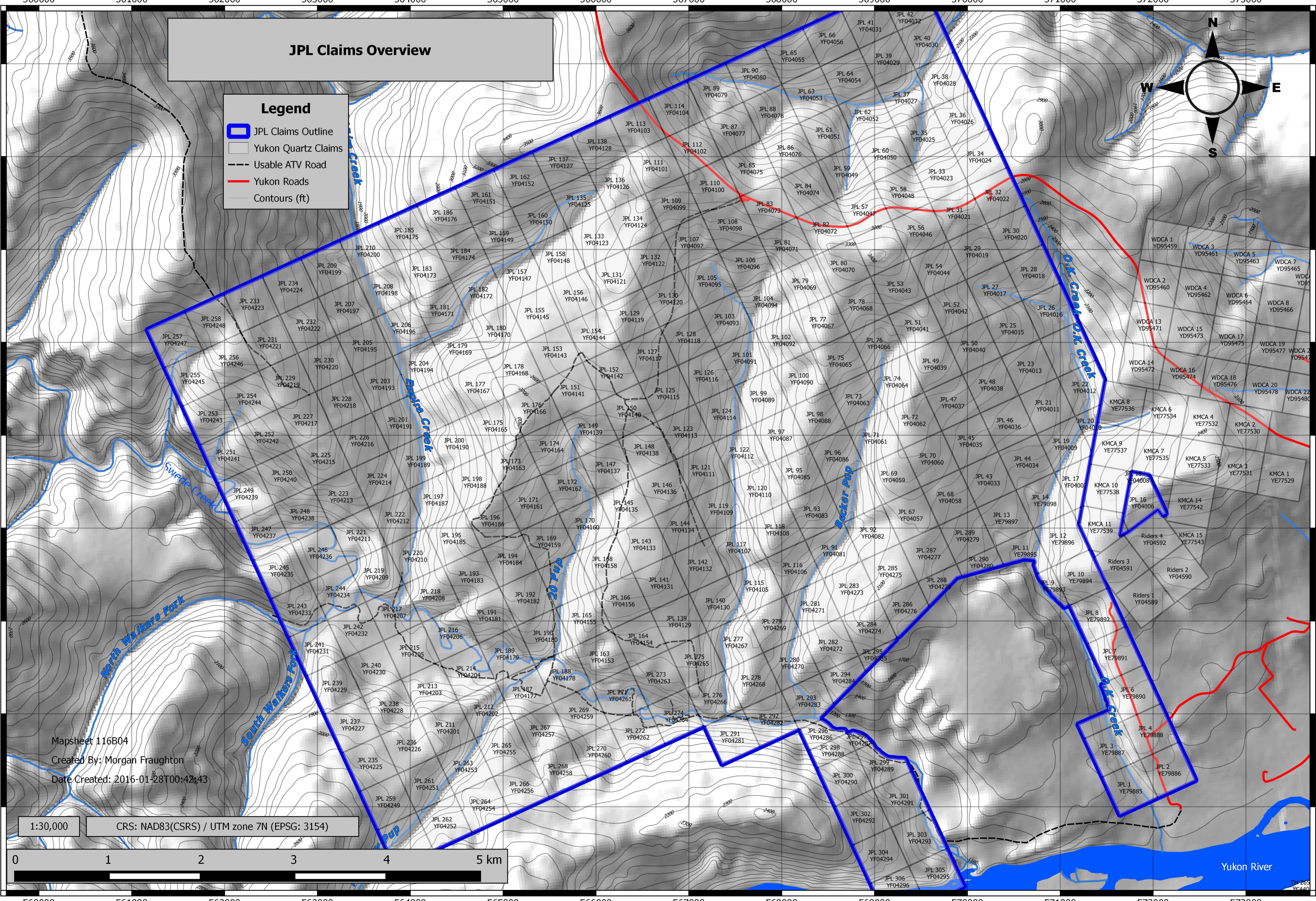
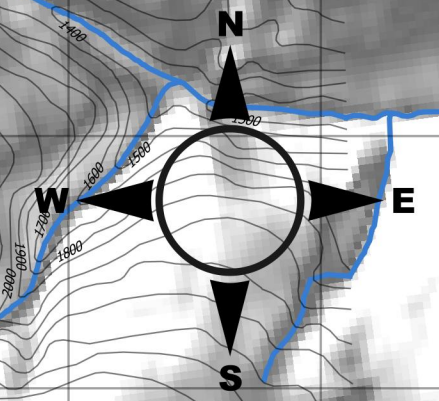
566000

567000

JPL Claims Overview

Legend

-  JPL Claims Outline
-  Yukon Quartz Claims
-  Usable ATV Road
-  Yukon Roads
-  Contours (ft)



Mapsheet 116B04
Created By: Morgan Fraughton
Date Created: 2016-01-28T00:42:43

1:30,000 CRS: NAD83(CSRS) / UTM zone 7N (EPSG: 3154)



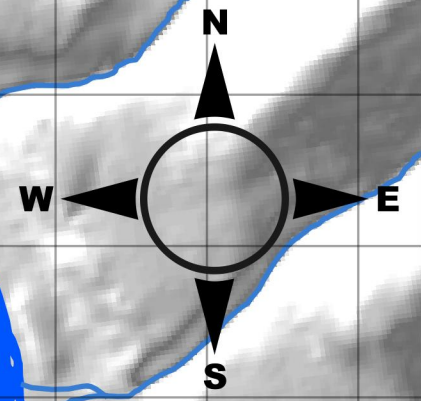
Yukon River

TM 265
YF 440

2015 Prospecting Traverses, Mapping note locations, and Claim Access

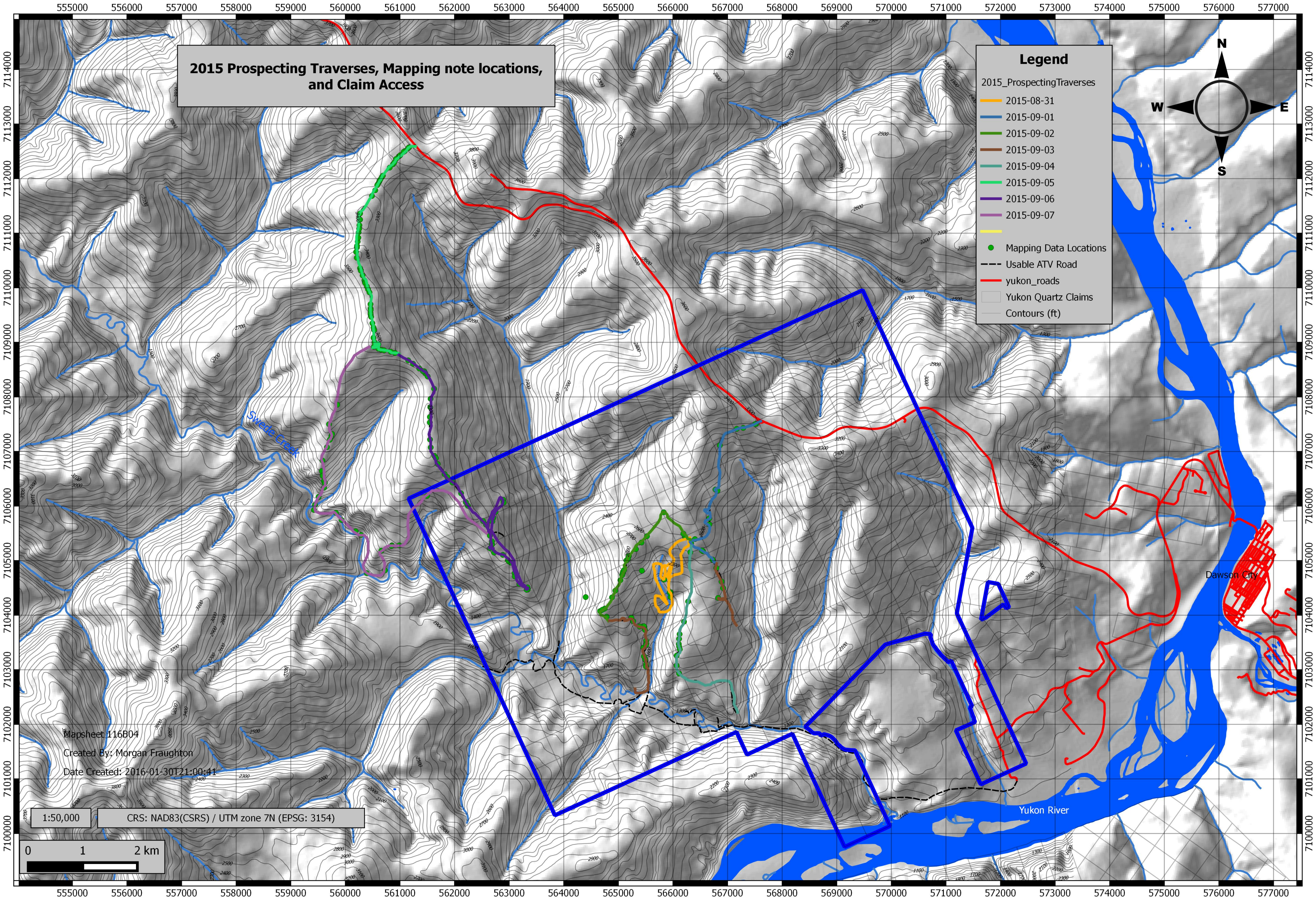
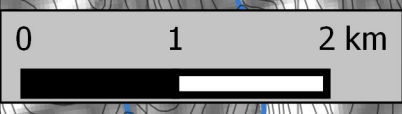
Legend

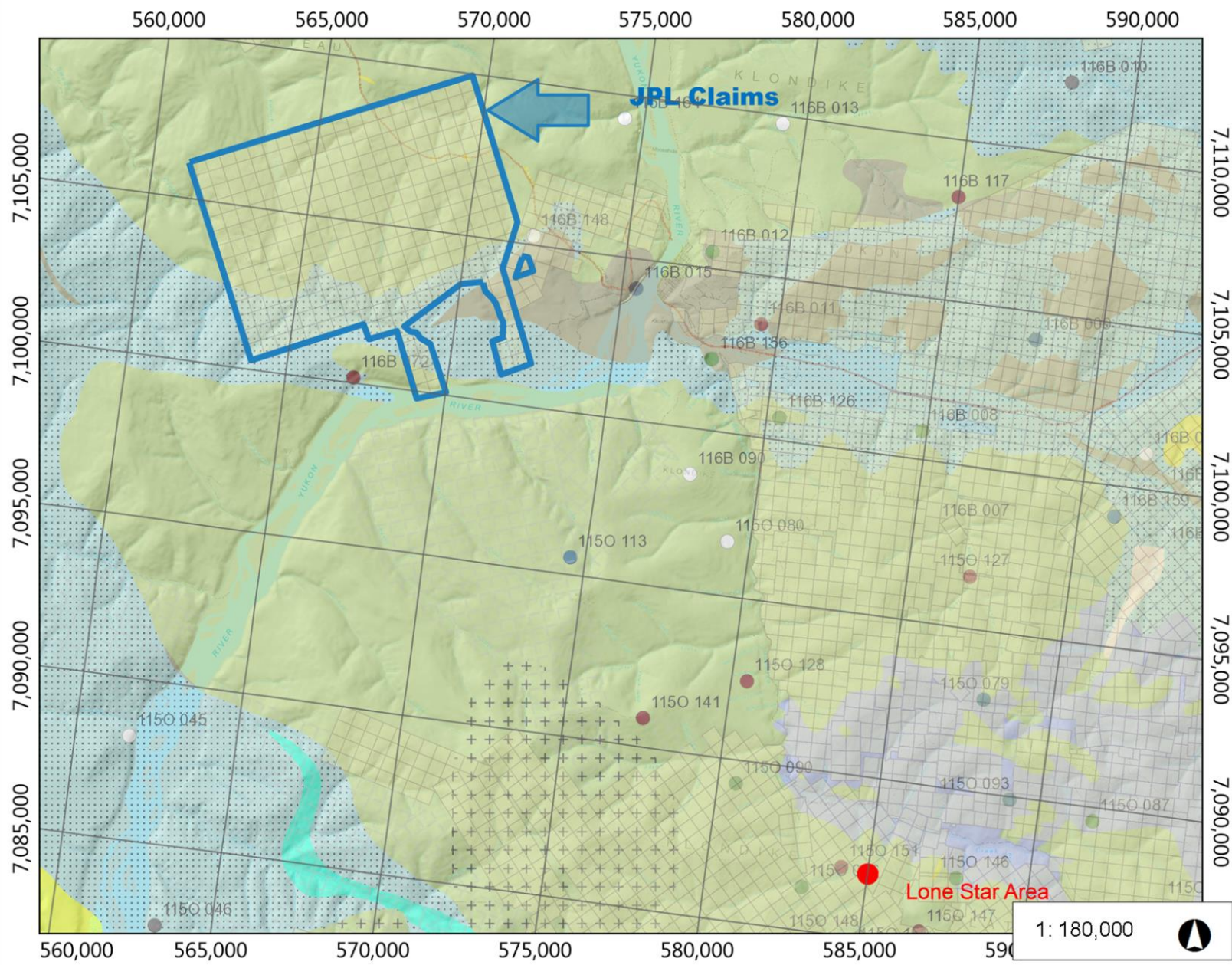
- 2015_ProspectingTraverses
 - 2015-08-31
 - 2015-09-01
 - 2015-09-02
 - 2015-09-03
 - 2015-09-04
 - 2015-09-05
 - 2015-09-06
 - 2015-09-07
- Mapping Data Locations
- Usable ATV Road
- yukon_roads
- Yukon Quartz Claims
- Contours (ft)



Mapsheet 116B04
Created By: Morgan Fraughton
Date Created: 2016-01-30T21:00:41

1:50,000 CRS: NAD83(CSRS) / UTM zone 7N (EPSG: 3154)





Legend

Quartz Claims (50K)

- Active and Pending
- Expired

Quartz Mining License

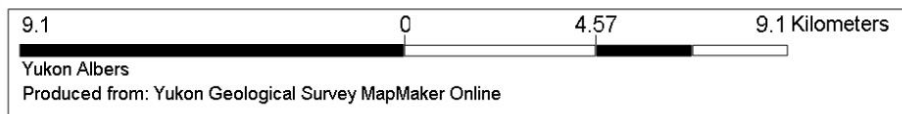
Mineral Occurrences (MINFILE)

- Anomaly
- Deposit
- Drilled Prospect
- Open Pit Past Producer
- Open Pit Producer
- Prospect
- Showing
- Staked - No Work Recorded
- Underground Past Producer
- Unknown

Bedrock Geology

- Q: QUATERNARY: unconsolidated glaciolacustrine deposits; fluviatile silty local volcanic ash, in part with cover deposits
- MW: WRANGELL SUITE: fine to medium hornblende biotite granodiorite and medium hornblende granodiorite; medium grained diorite and pyroxene gabbro; subvolcanic rhyolite, rhyodacite, dacite, and trachyte
- TQS: SELKIRK: resistant, brown weathered, jointed, vesicular to massive basaltic tuff and breccia (Selkirk Volcanic Group)
- PW1: WALSH: resistant, white weathered (Walsh Creek)
- PW2: WALSH: resistant, thick bedded well-indurated conglomerate with medium sandstone; white mudstone with interbedded and minor coal (Walsh Creek)

1: 180,000



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Date Printed: 31-Jan-2016

Notes

JPL Soil Sampling Access Cutting

