

# ASSESSMENT REPORT

describing

## 2016 SOIL SAMPLING PROGRAM

on the

### 3 ACES PROPERTY

Work Completed: July 22 - September 05, 2016

Grant Numbers	Claim Name
YD59330-YD59337	Ace 23-30
YD59340-YD59347	Ace 33-40
YD59374	Ace 67
YD25475-YD25478	Al 75-78
YD11184-YD11191	Al 103-110
YD25501-YD25504	Al 111-114
YD25031-YD25034	Fred 1-4
YD25035-YD25056	Fred 5-26
YD25057-YD25058	Fred 27-28
YD25059	Fred 29
YD25060	Fred 30
YD25061-YD25082	Fred 31-52
YD2557-YD25582	Fred 249-274
YD25531-YD2556	Fred 275-300
YD25506-YD25530	Fred 301-326
YD26151-YD26346	Full 1-196
YB91751	3 Ace 61

Grant Numbers	Claim Name
YD07109-YD07128	Ace 1-20
YD59328-YD59329	Ace 21-22
YD59338-YD59339	Ace 31-32
YD59348-YD59459	Ace 41-152
YD25401-YD25448	Al 1-48
YD25449-YD25450	Al 49-50
YD25451-YD25470	Al 51-70
YD25471	Al 71
YD25472	Al 72
YD25473-YD25474	Al 73-74
YD25479-YD25498	Al 79-98
YD25499-YD25500	Al 99-100
YD11182-YD11183	Al 101-102
YD10850-YD10859	Cozy 1-10
YD26101-YD26150	House 1-50
YD29165-YD29199	Jack 5-39
YD18939-YD18936	Jake 1-4
YD58282-YD58297	Jake 5-20

Grant Numbers	Claim Name
YD10920-YD10923	Jan 1-4
YD24701-YD24800	Joe 1-100
YD11176-YD11177	Joe 101-102
YC72439-YC72459	King 1-18
YC89511-YC89520	King 19-28
YC72724-YC73733	King 29-38
YC73284-YC295	King 39-50
YC73848-YC73859	King 51-62
YC89521-YC89526	King 63-68
YC89527-YC89530	King 69-72
YD07129-YD07138	King 73-82
YD10860-YD10919	King 83-112
YD24901-YD24982	OCS 1-82
YD11172	Queen 1
YD07139-YD07148	Queen 2-11
YD11173-YD11175	Queen 12-14
YE85659-YE85672	Rex 1-14
YD25135-YD25154	TEXAS 1-20

NTS Sheets 105H09, 105H16  
61°43'37"N Lat, 128°21'46"W Long  
UTM (NAD 83): 533700E, 6843800N, Zone 9

Watson Lake Mining District, Yukon Territory

**Golden Predator Mining Corp.**  
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June 1, 2017

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## 1.0. Summary

The 3 Aces Property consists of 1,044 claims covering approximately 213 km<sup>2</sup>, and is located in the Watson Lake Mining District, approximately 180km north of Watson Lake, Yukon Territory, Canada. Golden Predator Mining Corp. owns a 100% interest in the claims.

The property covers numerous gold-bearing quartz veins hosted in metasedimentary rocks of the Neoproterozoic Hyland Group. Quartz veins range from several centimetres to several meters and generally occur at or near the contacts between the fine-grained mudstones (phyllite) and the coarse-grained sandstone and conglomerate (grits) of the Yusezyu Formation.

Historically soil sampling has been successful in identifying areas with anomalous gold in soils that have subsequently been found to be associated with mineralized quartz veins in bedrock.

During the 2016 season a total of 4,803 soil samples were collected on the property from July 22 - September 05, 2016, by Aurora Geoscience Ltd. Based out of Yellowknife, NWT. Both grid and contour soils were collected. Four grids (4,115 samples) were sampled and 20 contour lines (688 samples) were sampled.

At least 7 large and 5 smaller gold (Au) and arsenic (As) in soil anomalies were identified during the 2016 soil sampling program. Follow up soil sampling (with smaller grid spacing), prospecting, and geological mapping is recommended around these anomalies.

## 2.0. Introduction

The 3 Aces property is located in the southeastern part of the Yukon territory at the confluence of the Hyland River and the Little Hyland River and is 100% owned by Golden Predator Mining Corp.

The property covers a number of high grade, gold-bearing quartz veins hosted in a thick succession of meta-sedimentary rocks of the Neoproterozoic Hyland Group. The largest quartz veins tend to occur at the contact between the finer grained mudstone (phyllites) and coarser grained sandstones and conglomerates (grits) of the Yusezyu Formation.

Mineralization consists of free gold associated with arsenopyrite and pyrite in quartz veins ranging from several cms to over 10 metres in thickness. Historically soil sampling has been successful in outlining areas of anomalous gold and arsenic that have subsequently been found to be associated with gold bearing quartz veins.

In 2016, at the request of the company, Aurora Geoscience completed a soil sampling program consisting of 4 grids and 20 contour lines, totaling 4,803 sample stations. The program commenced on July 21st and was completed on September 5th, 2016.

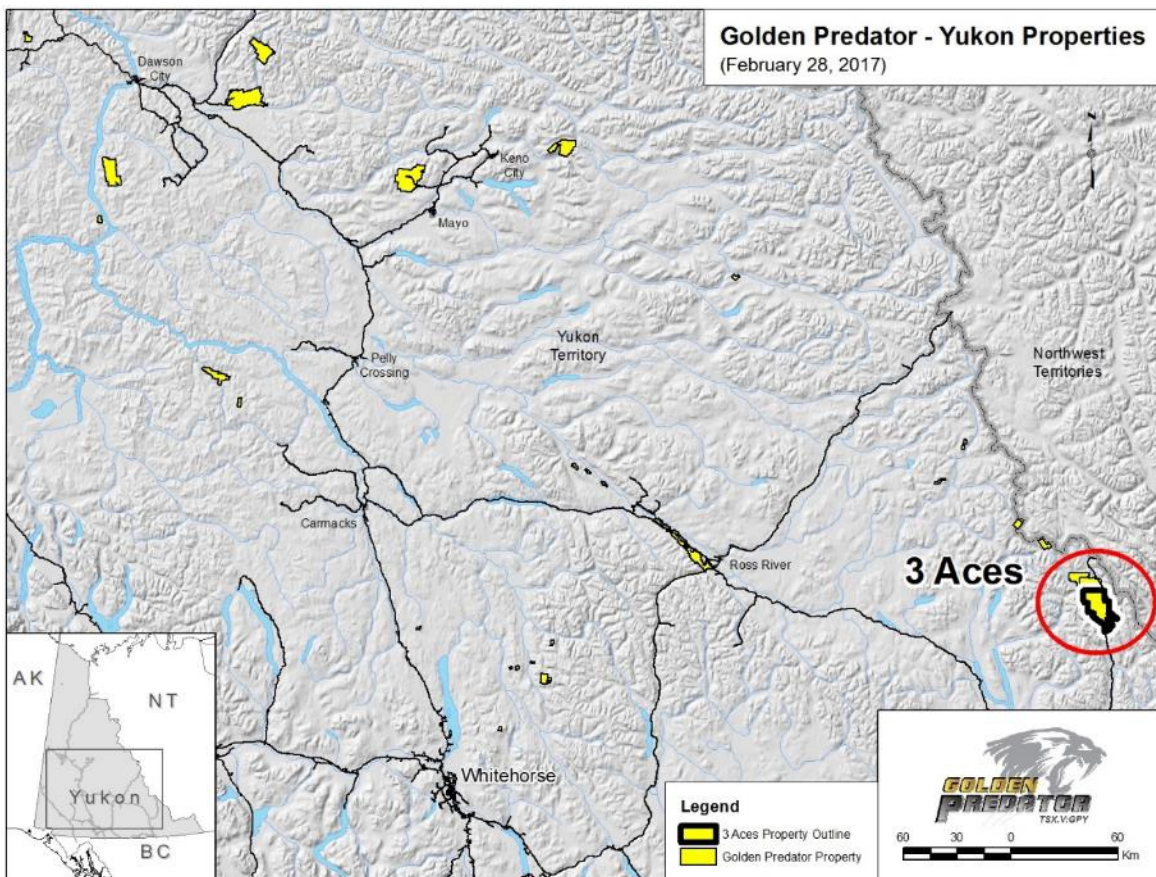
A total of \$185,726.22 was spent on the soil sampling program (excluding helicopter time) of which a total of \$103,027.59 was used to renew the claims in the northern portion of the property. The results of the complete soil program are presented in this report.

The work was carried out by qualified personnel of Aurora Geoscience and meets or exceeds industry standards and best practices. The work was supervised by Mike Burke, the Chief Geologist for Golden Predator, and the report was written by the author, Gilles Dessureau, a senior geologist for Golden Predator.

### 3.0. Property Description and Location

The 3 Aces Property consists of 1,044 claims covering approximately 213 km<sup>2</sup>, and is located in the Watson Lake Mining District, approximately 180km north of Watson Lake. It is located at the confluence of the Hyland River and the Little Hyland River and continues north northwest for approximately 25 kilometers. The property is centered at: 61°43'37"N Latitude and 128°21'46"W Longitude or at UTM: 533700E, 6843800N, (NAD 83: Zone 9) and is located along Yukon Highway 10 also known as the Cantung Mine Road. The Cantung Mine lies approximately 40 km to the north northeast of the property. The claims can be found on NTS Sheets 105H09, 105H16.

Golden Predator Mining Corp. owns a 100% interest in the claims, which were acquired by way of Option Agreement and are subject to continuing obligations.



**Figure 3.1.** A map showing the location of the 3 Aces Property, Yukon Territory, Canada.

**Table 3.1.** A list of claims and expiry dates for the 3 Aces Property.

Grant Numbers	Claim Name	Owner	Expiry Date
YD59330-YD59337	Ace 23-30	Golden Predator Mining Corp	10/05/2026
YD59340-YD59347	Ace 33-40	Golden Predator Mining Corp	10/05/2026
YD59374	Ace 67	Golden Predator Mining Corp	18/05/2031
YD25475-YD25478	Al 75-78	Golden Predator Mining Corp	10/05/2024
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YD25501-YD25504	Al 111-114	Golden Predator Mining Corp	10/05/2024
YD25031-YD25034	Fred 1-4	Golden Predator Mining Corp	10/05/2024
YD25035-YD25056	Fred 5-26	Golden Predator Mining Corp	10/05/2024
YD25057-YD25058	Fred 27-28	Golden Predator Mining Corp	10/05/2024
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YD59348-YD59459	Ace 41-152	Golden Predator Mining Corp	18/05/2028
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YD25449-YD25450	Al 49-50	Golden Predator Mining Corp	18 /05/2027
YD25451-YD25470	Al 51-70	Golden Predator Mining Corp	18/05/2024
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YC73284-YC295	King 39-50	Golden Predator Mining Corp	18/05/2027
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YD11173-YD11175	Queen 12-14	Golden Predator Mining Corp	18/05/2025
YE85659-YE85672	Rex 1-14	Golden Predator Mining Corp	16/02/2029
YD25135-YD25154	TEXAS 1-20	Golden Predator Mining Corp	18/05/2025

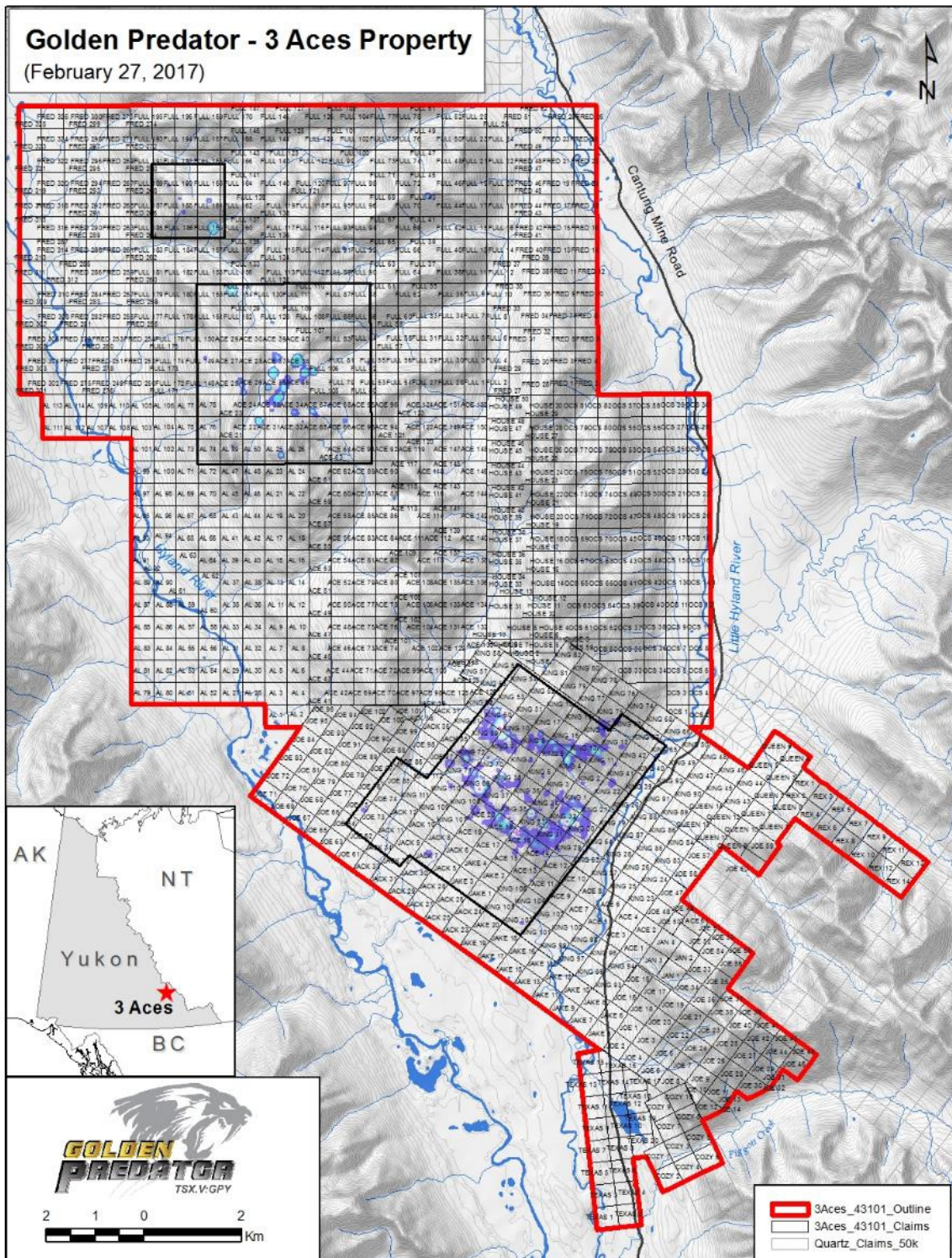


Figure 3.2. A map showing the claims of the 3 Aces Property.

## 4.0. Physiography, Climate, and Accessibility

The 3 Aces property is located in the Logan Mountain Range in the eastern part of the Yukon Territory, and has an subarctic climate with cool summers, and very cold winters. Daily high temperatures in July average 15°C, with variation depending on elevation; daily highs in January average -20°C, although temperatures as low as -50°C have been recorded. Precipitation is moderate, although higher than most other areas of Yukon. Snowfall levels average about 1.5 meters by mid-March. The field season extends from late June to mid-September, although diamond drilling may continue into early winter.

Access to the property is provided by the Nahanni Range Road (Rd# 10) via the Robert Campbell Highway (Rd# 4) from either Watson Lake, YT or Ross River, YT. The 3 Aces camp is located at kilometer 134 on the Nahanni Range Road. In 2016, a small bridge was installed across the Little Hyland river providing access to the lower areas of the property. A helicopter is still required to access the remote parts of the property inaccessible via the roads and was used for much of the soil program.

## 5.0. History

Early work in the area began in 1997-98, when Hudson Bay Exploration and Development Corp. carried out a regional silt, soil, and rock sampling survey to follow-up anomalous results reported in a 1989 Geological Survey of Canada regional stream and water geochemical survey. In 1999, Hudson Bay drilled 3 holes on the property, with no significant results, before dropping the property in 2000, and returning the claims to prospector Alex McMillan.

In early 2003, ATAC Resources optioned the property from McMillan and carried out excavator trenching, geological mapping and rock sampling (around the road occurrence), before dropping the property in June of 2003.

Later in 2003, after ATAC dropped its option on the property, McMillan sampled a quartz vein located approximately 3 km northwest of the Road occurrence which assayed 5 401.1 g/t gold (~157.53 Oz/ton gold). The outcrop is located within an area now known as the Main zone.

In 2005, North American Tungsten optioned the property and carried out grid soil sampling and horizontal loop electromagnetic (HLEM) and ground magnetic geophysical surveys over the Road occurrence and Grid "C" located southeast of the Main Zone. In Mar/2008 North American Tungsten's option on the 3 Ace claims expired.

In April 2010, Northern Tiger Resources Inc. optioned the newly named 3 Aces property from McMillan, and began staking additional claims around the existing claim block while carrying out detailed structural mapping, prospecting, hand trenching and detailed rock and soil sampling. In Sep/2010 the company initiated a second phase exploration program consisting of 9 diamond holes (1,240 m) which tested the Main and Sleeping Giant zones. The discovery hole on the Main Zone, hole 3A-10-01 returned an intersection of 4.3 g/t Au over 30.3 meters including 145.2 g/t over 1.05 meters with visible gold.

In 2011 and 2012, Northern Tiger continued exploration on the 3 Aces property and conducted an airborne magnetic and radiometric geophysical survey, extensive grid soil surveys, trenching and geological mapping, and drilled an additional 49 drill holes on various targets.

In 2013, Northern Tiger completed a small exploration program comprised of silt sampling, prospecting and trenching before merging with Redtail Metals Corp., and changing its name to Golden Predator Mining Corp.

In 2013, Golden Predator collected 3 large volume samples (~800kg each) from the sleeping Giant Zone and delivered them to SGS Canada Inc.'s laboratory in Burnaby B.C. for secure storage. In 2014, SGS carried out metallurgical testing and mineralogical characterization studies on the material at SGS Canada Inc. Laboratories in Burnaby, British Columbia (Golden Predator News Release, July 15, 2014). Testing showed that overall gold recoveries for the three samples were reported at 98.3%, 97.9% and 93.5%. The three samples were processed in their entirety in bulk fashion by gravity and gravity tail leaching (Golden Predator News Release, Dec. 2, 2014).

In 2015, Golden Predator carried out a tightly spaced Rotary Air Blast (RAB) drill program consisting of 13 holes for approximately 45.73m. These holes were collared in the Sleeping Giant Vein and were designed to collect a large volume sample and were capped for blasting the bulk sample. The best intersection was 0.76m (2.5 ft.) (from surface) of 333.50 g/t Au (9.73 oz./t Au) in Hole 3ARAB15-11 (Golden Predator News Release Sept. 14, 2015).

In 2016, Golden Predator collected a large bulk sample (approximately 700 tonnes) from the Sleeping Giant Vein. Initial processing of 79.7 tonnes of the bulk sample produced a total of 4,587 grams of concentrate which was poured into a doré bar which contained 81.408 troy ounces of fine gold and 7.771 troy ounces of silver (Golden Predator News release Aug. 18, 2016).

Golden Predator carried out two drill programs in 2016. Phase 1 consisted of 31 reverse circulation (RC) drill holes for a total of 510m. These holes were drilled to test down dip and along strike of the bulk sample extracted from the Sleeping Giant vein. Highlights from this program include 6.40 m of 13.80 g/t Au in hole 3A16-RC-003, and 11.43 m of 31.89 g/t Au in hole 3A16-RC-015 (Golden Predator News Release June 20, 2016).

During the second phase of drilling, Golden Predator completed 54 drill holes for a total of 4,315m. This program consisting of 3,776 m of reverse circulation (RC) drilling and 539 m of diamond core drilling. This drill program targeted the previously undrilled Clubs Zone, the Hearts Zone, and the Spades Zone. Intersections include 7.54 m of 32.86 g/t Au in drill hole 3A16-RC-062, and 3.12 m of 13.18 g/t Au in drill hole 3A16-DD-036 from the Ace of Spades vein (formerly the Sleeping Giant vein) and 1.95 m of 29.79 g/t Au in hole 3A16-RC-068 and 2.28 m of 10.09 g/t Au in hole 3A16-RC-069 both from the previously undrilled Queen of Clubs Zone (Golden Predator News Release January 19, 2017).

## 6.0. Regional Geology

The 3 Aces Property is located in the southeast corner of the Yukon along the edge of the of the ancient North American continental shelf in the clastic sedimentary rocks of the Selwyn Basin (Gordey and Anderson, 1993). The Selwyn Basin is a long, narrow belt that extends across much of the south-eastern

and central portions of the Yukon that records the progressive infilling of primarily Neoproterozoic to Devonian-aged rift basins formed along the margin of Ancient North America.

The oldest component of the Selwyn Basin stratigraphy is the late Neoproterozoic to Early Cambrian Hyland Group. The Hyland Group is sub-divided into the Yusezyu and Narchilla formations (Roots et al., 1966; Gordey and Anderson, 1993). The Yusezyu Formation consists of coarse-grained conglomerate and arkosic sandstone packages interbedded with thick black phyllite. Locally, green shale and ribbon-bedded limestones occur as lesser components of the formation and thick limestone units have been documented near the top of the Yusezyu Formation (Gordey and Anderson, 1993; Hart et al., 2006). The Narchilla Formation overlies the Yusezyu Formation and consists of thick sequences of maroon, green, and black shale interbedded with variable proportions of limestone and calcareous sandstone units. The contact between the formations is tectonized in the area, but regionally the stratigraphic contact is gradational (Gordey and Anderson, 1993). Sedimentary rocks similar to the Hyland Group occur along the strike-length of Ancient North America in the Yukon and British Columbia, comprising the Windermere Supergroup (Goodfellow, 2007).

The region surrounding the project area (Figure 6.1.) is dominated by Neoproterozoic to Early Cambrian clastic carbonate rocks of the Hyland Group (Windermere Supergroup), minor Lower Palaeozoic strata, and abundant Cretaceous intrusive bodies. The Lower Palaeozoic strata were deposited close to the shelf-slope boundary of Selwyn basin, an embayment in the Lower Palaeozoic Laurentian continental margin. The sedimentary rocks were deformed and metamorphosed under greenschist to amphibolite-facies conditions during the Cordilleran orogeny, which also led to the intrusion of abundant granitic rocks. A fault with large displacement, herein termed the Upper Hyland fault (UHF), is coincident with the Hyland River valley along much of the length of the mapped area (Moynihan, 2016a). Rocks on the east side of the fault where the property is located record a single episode of penetrative deformation and greenschist facies metamorphism, whereas much of the area to the west underwent polyphase deformation at a higher metamorphic grade. As a result, rocks on the eastern side of the fault can be readily correlated with well-known regional units, but the stratigraphic affinity of rocks west of the fault is less certain (Moynihan, 2017).

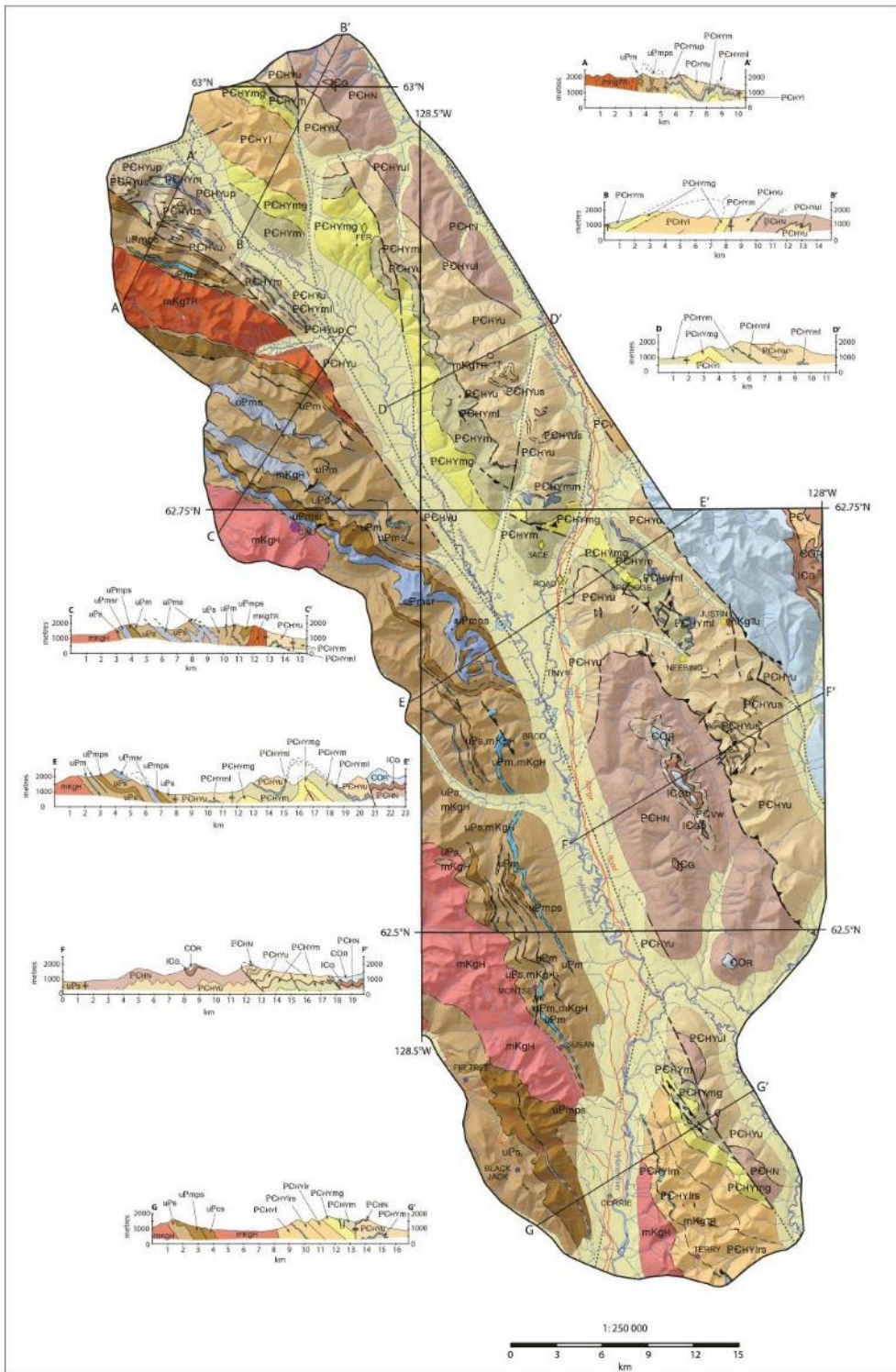


Figure 6.1. Regional geology of the Hyland Area (Moynihan, 2017).

## 7.0. Property Geology

The property is underlain by fine-grained mudstone and siltstone (phyllite), medium-grained, quartz and quartz-feldspar sandstone, and coarse-grained quartz-pebble conglomerate of the Yusezyu Formation. Sandstone and conglomerate beds are tens of centimeters to meters thick and are interlayered with variable proportions of grey phyllite. The phyllite is mostly grey to dark grey but is locally maroon or green and can be locally carbonaceous.

Gold mineralization is associated with massive quartz veins, and quartz vein stockworks with minor amounts (<1%) sulphide minerals including pyrite and arsenopyrite, with trace amounts of pyrrhotite, chalcopyrite and galena. High grade quartz veins on the property such as the Ace of Hearts and Ace of Spades veins contain coarse visible gold. Surface sampling of veins has returned very high grade results including values of >1000 g/t gold in grab samples from both the Ace of Hearts and Ace of Spades veins.

Massive quartz veins are commonly hosted at or near the contact between thick graded to massive, coarser sandstone-grit beds and interlayered phyllite. The coarser siliciclastic units are quartz flooded and in localized areas almost completely replaced with silica in the proximity of massive quartz veins. Quartz veins stockwork zones in the siliciclastic units can form large haloes around the massive veins and are host to lower grade gold mineralization.

## 8.0. 2016 Work Program

A 5-man crew from Aurora geoscience mobilized to the 3 Aces Property on July 20, 2017 to begin the soil sampling program. Fly camps were established on the property and the helicopter was used for daily set outs to access the soil grid locations. Soil Sampling commenced on July 22, 2017. Soil lines were laid out on 100m spaced lines with 50m spaces sample stations. Data was gathered using PDF Maps on iPods connected by Bluetooth to a GPS antenna. Geo-referenced maps were prepared showing the location of each waypoint. The sampler would then simply drop a 'pin' on their GPS location. For each 'pin', the sampler would include the following information as per a preset schema: sample ID number, 2 photos using the iPod's camera, sample depth, horizon sampled, depth within the sampled horizon, sample colour, percentage of organic material, gravel, sand, silt and clay, percentage of angular rock, parent material, moisture content, vegetation cover, and topographic position.

Navigation to the sampling stations was done using hand held Garmin 64S GPS units with the grid's .gpx file for waypoints (NAD 83 in UTM). At each station, the personnel would locate a suitable spot for a sample, ideally within a few meters, or if necessary within a 20m radius of the GPS location. If no soil was found, then the sampler would enter a 'pin' at the waypoint's location, identifying it as a no sample and providing a brief explanation; i.e. cliff or boulder talus. Otherwise, the sampler would collect C-horizon material, when possible, using an auger or geo pick at the discretion of the sampler.

A total of 4,803 samples were collected for the program consisting of 4 grids (4,115 Samples) and 20 contour sample lines (688 Samples) (Figure 8.1.).

### Grid 1 Sampling

At 2,774 stations, Grid 1 was the primary target of the program. It was comprised of 38 lines of 73 stations each, with 100-metre line spacing, and 50m sample spacing. At 73 stations per line, Grid 1 was designed such that a line could be completed in approximately 3 days, given a production average of 25 samples/day/person.

### **Grid 2 Sampling**

After completing Grid 1, the crew moved to Grid 2 on August 13th. This grid included 16 lines of 30 stations each, 100m line spacing, and 50m sample spacing, totaling 480 stations. Grid 2 proved to be much steeper than Grid 1, with very rugged terrain and minimal soil available to sample. Large boulder fields would often provide little pockets of soil but the layers of B or C horizon were thin and sparse. Nonetheless, the team made an effort to gather the best material possible. Some samples gathered on Grid 2 may contain some O or A horizon, as the crew was instructed to collect what material they could, even if it wasn't ideal. Grid 2 was completed with a crew of 5 in 3.5 days.

### **Grid 3 Sampling**

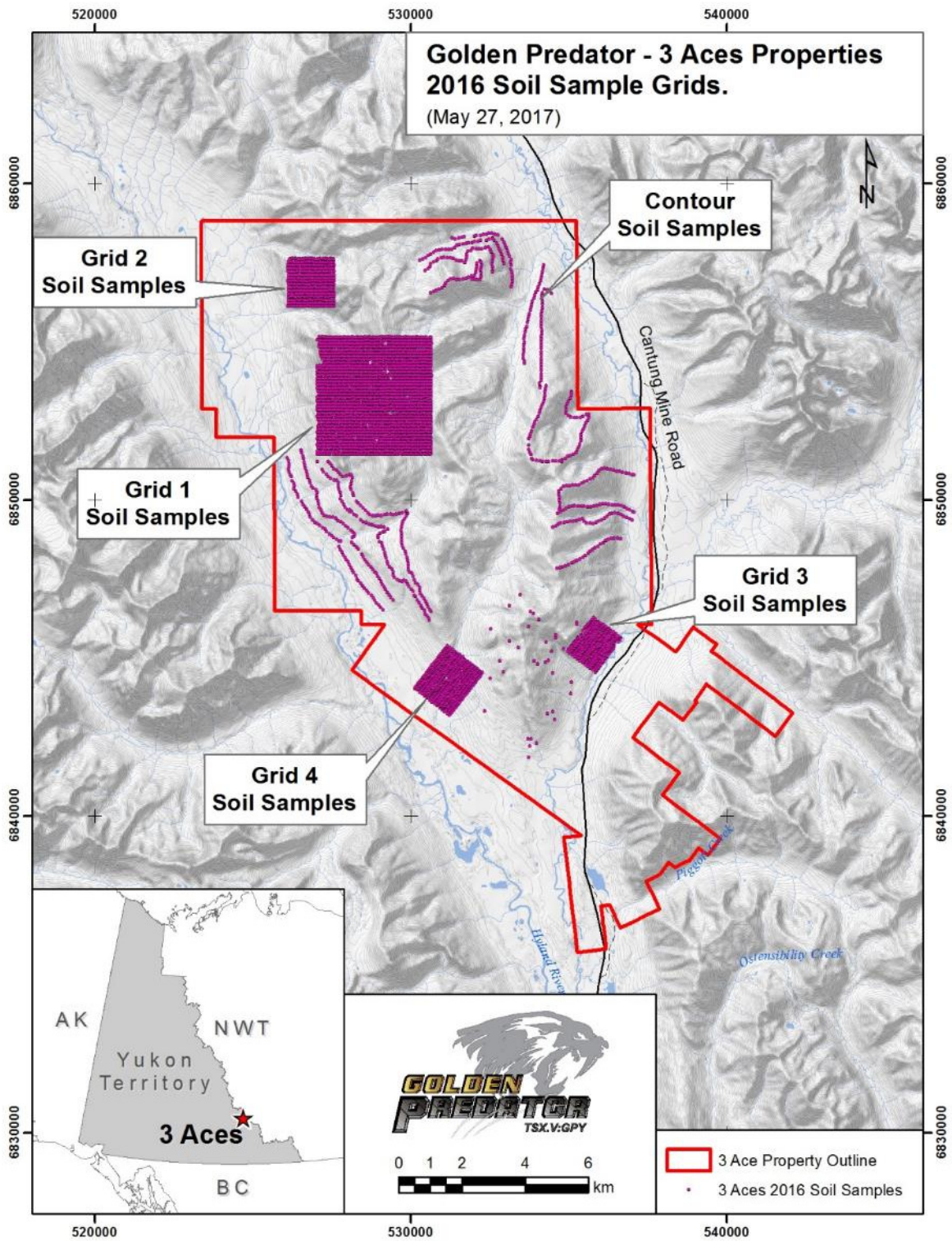
Grid 3 soil sampling began on August 25th. The grid was comprised 336 stations, including 12 lines each with 28 stations, 100m line spacing and 50m station spacing. Given that most of the grid was below tree line, with the exception of the uppermost line, a central location was cleared for helicopter pick-ups and set-outs. At higher elevations, the lines on this grid proved difficult to sample due to the presence of boulders, difficult terrain and lack of soil. At the far South East edge of the grid, Line 1 was quite near and close to the Little Hyland River. Three stations of this line were on the other side of the river and as such, were not sampled. Grid 3 was completed on August 29th by a crew 3 personnel.

### **Grid 4 Sampling**

Sampling on the final grid started on August 30th. Grid 4 consisted of 525 total samples, with 15 lines of 35 stations each, 100m line spacing and 50m station spacing. The grid was all below tree line, in the valley of the Hyland River. With its ability to land in low brush, the NOTAR MD 520 was particularly valuable on this grid, saving hours brushing proper heli pads and hence production. (Of note, there is a large creek running through the North and South corners of Grid 4, crossing lines 4-11; traversing this creek by foot is difficult but manageable, especially after prolonged rain, and requires some scouting to find a safe place to cross.) Grid 4 was completed in 7 days, on September 5th, by a crew of 3 personnel.

### **Contour Line Sampling**

August 16th marked the start of the contour line sampling. 688 total stations were designed including 20 contour lines with 30-40 stations per line and 100m sample spacing. The line spacing ranged from a few hundred meters to over a kilometer apart. On several of the lines, specifically 4-8, and 13-16, the vegetation of buck brush, alder and mixed forest was quite thick and difficult to navigate. This as well as the fact that a helicopter pad needed to be cleared out for the helicopter, resulted in lower production averages on these contour lines. As well, at 30-40 stations per line, it was often difficult to complete a line in a day, thereby leaving a few stations for the next day and a helicopter bump to the next line.



**Figure 8.1.** A map showing the location of soil samples grids and contour lines.

## Analysis

Samples were submitted to Bureau Veritas Mineral Laboratories in Whitehorse to be dried (at 60°) and prepped (sieved to sieve 100g to -80 mesh) (B.V. code SS80) before being sent to Vancouver for Ultratrace ICP-MS analysis (AQ251\_Ext) for a suite of 53 elements (Assay certificates presented in Appendix I). Bureau Veritas internal duplicates, standards, and blanks were inserted within each shipment and QA/QC results were within industry standards.

## 9.0. Results

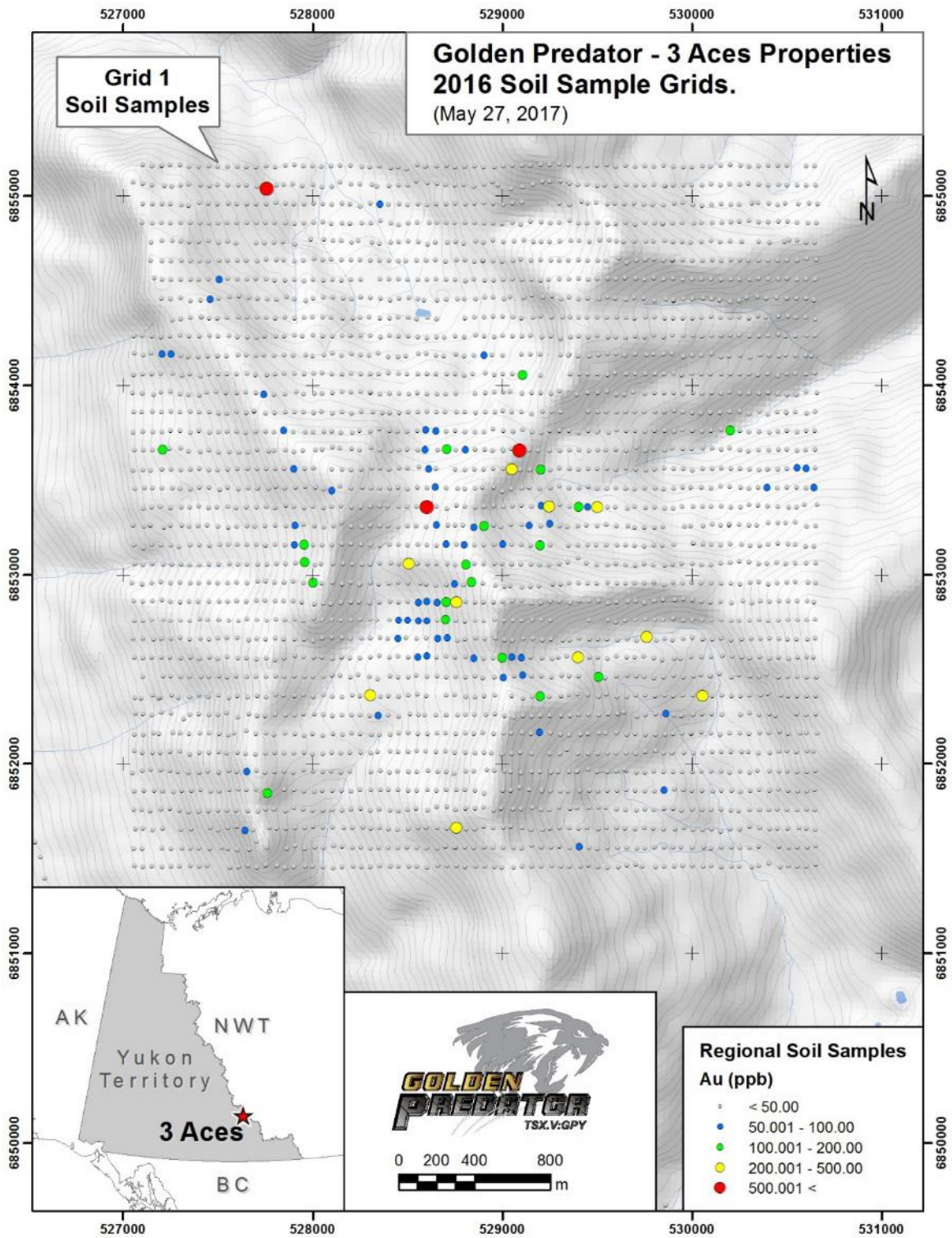
Of the 4,803 soil samples collected, 6 samples returned values over 500ppb Au, 17 samples returned values between 200 and 500ppb Au, 31 samples returned values between 100 and 200ppb Au, 79 samples returned values between 100 and 50ppb Au, and the remaining 4,670 samples returned values less than 50ppb Au. Generally higher grade gold samples at the 3 Aces Property are associated with high arsenic values as well. For the 2016 soil sample 32 samples returned arsenic values above 800ppm As, 54 samples reentered values between 400 and 800ppm As, 141 samples returned values between 200 and 400ppm, 303 samples returned values between 100 and 200ppm As, and the remaining 4310 samples returned values below 100ppm arsenic. The soil sampling program was successful in identifying several areas with elevated gold and arsenic values that require follow up work.

Grid 1 was the largest of the soils grids with 2,774 soil sample stations on 100m spaced east-west lines and produced the most abundant anomalous samples. This grid produced 3 samples with values greater than 500ppb Au, 10 samples between 200ppb and 500ppb, and 29 samples with values between 100 and 200ppb Au (Figure 8.2.). This grid produced 19 samples with arsenic values over 800ppm As, 24 samples with arsenic values between 400 and 800ppm As (Figure 8.3).

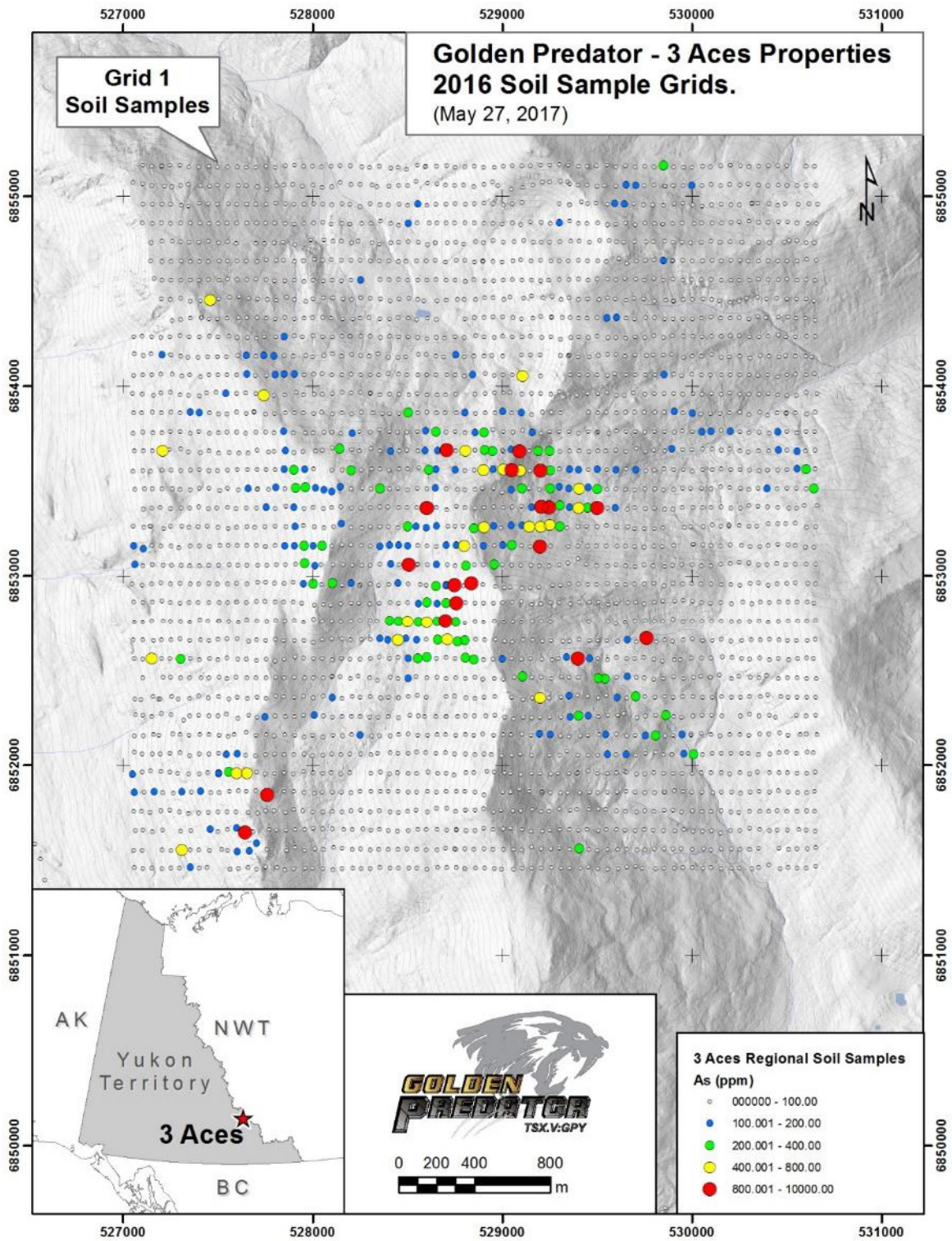
Grid 2 produced 1 sample with gold values above 200ppm (1,12ppb Au), and 3 samples with values between 100 and 200ppb Au (Figure 8.4.). This grid produced 2 samples with arsenic values over 800ppm, and 4 samples with values between 400 and 800ppm As (Figure 8.5.).

Grid 3 produced 1 sample with gold values above 500ppb (606ppb), 4 samples with values between 200 and 500ppb gold, and 5 samples with values between 100 and 200ppb Au (Figure 8.6.). This grid also produced 7 samples with arsenic values above 800ppm As, 22 samples with values between 400 and 800 ppm As (Figure 8.7.).

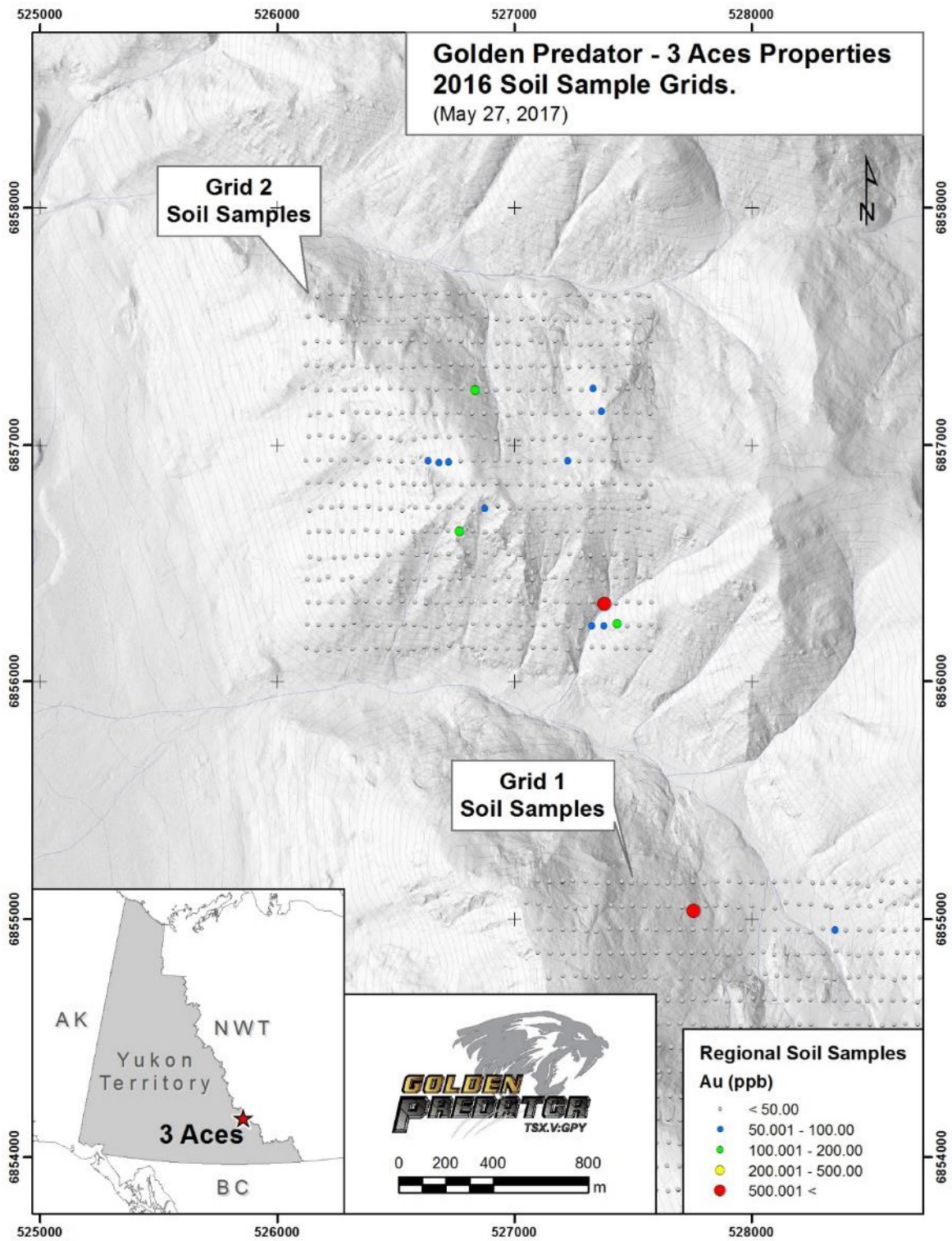
Grid 4 consisted of 525 samples and only two samples returned values 50 and 100ppb Au (Figure 8.8.) and two different samples returned values between 100 and 200ppm As (Figure 8.9.). Overall this grid did not produce any significant results, and no follow up is recommended for this grid.



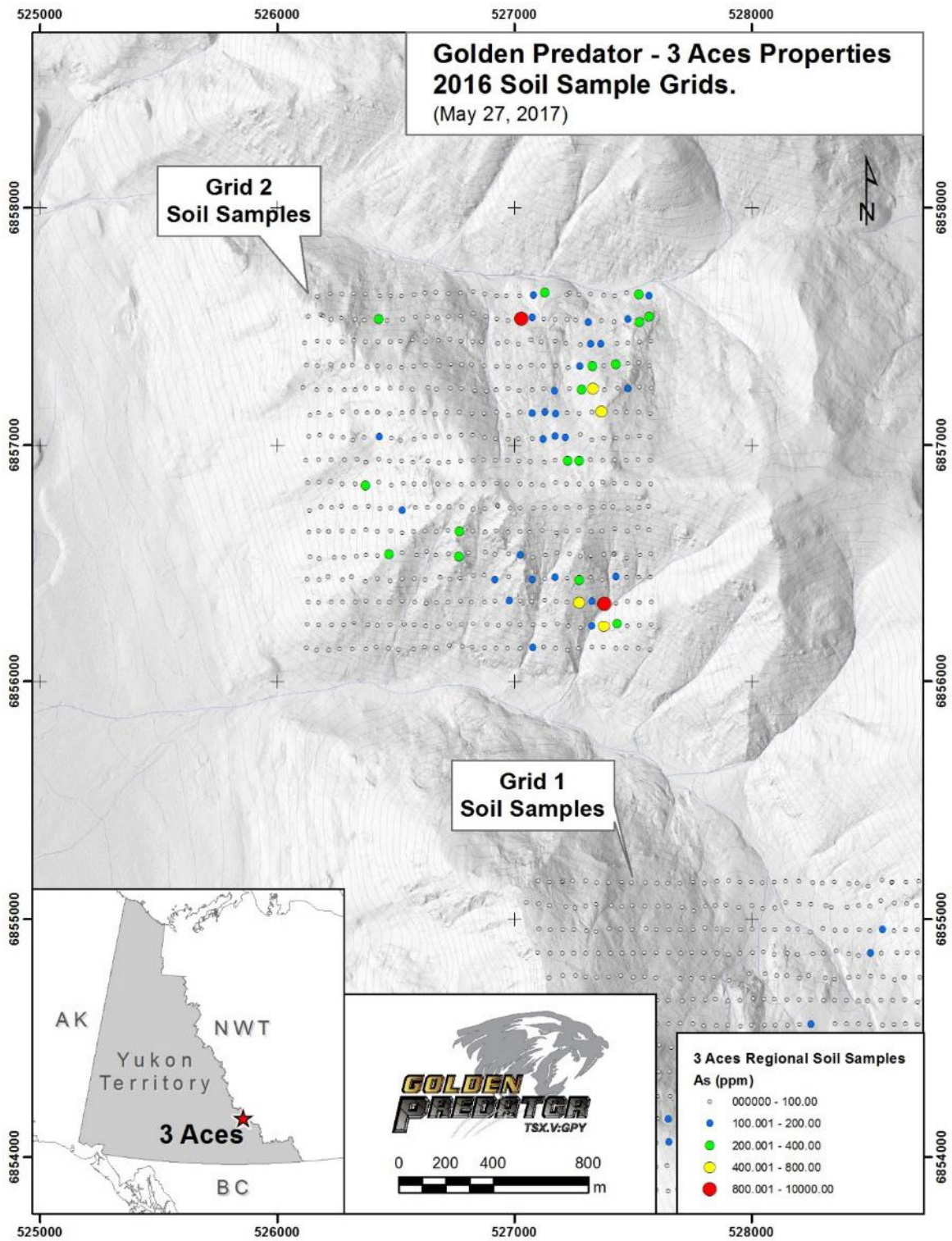
**Figure 8.2.** A map showing gold (Au) values for Grid 1 soil samples.



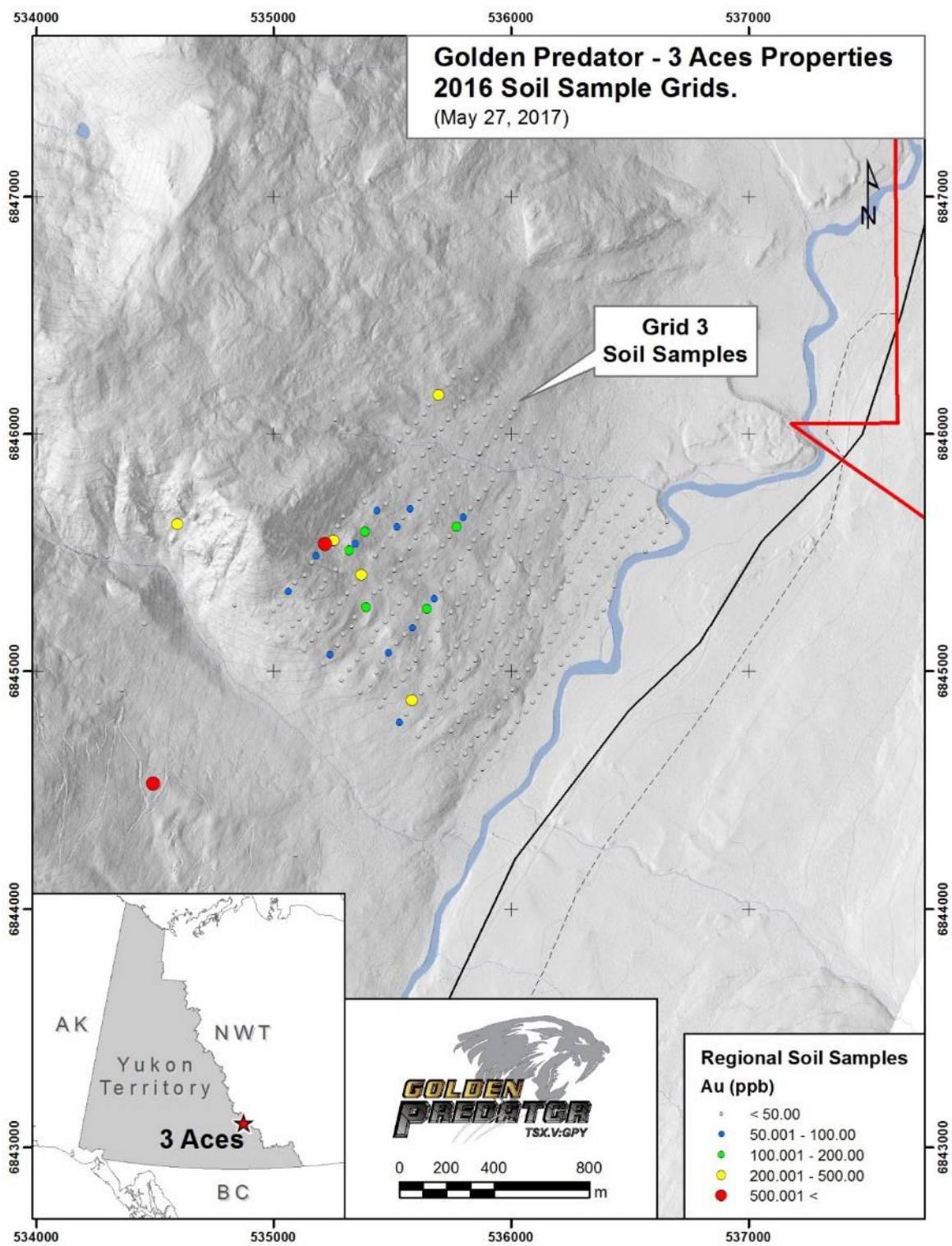
**Figure 8.3.** A map showing arsenic (As) values (ppm) for Grid 1 soil samples.



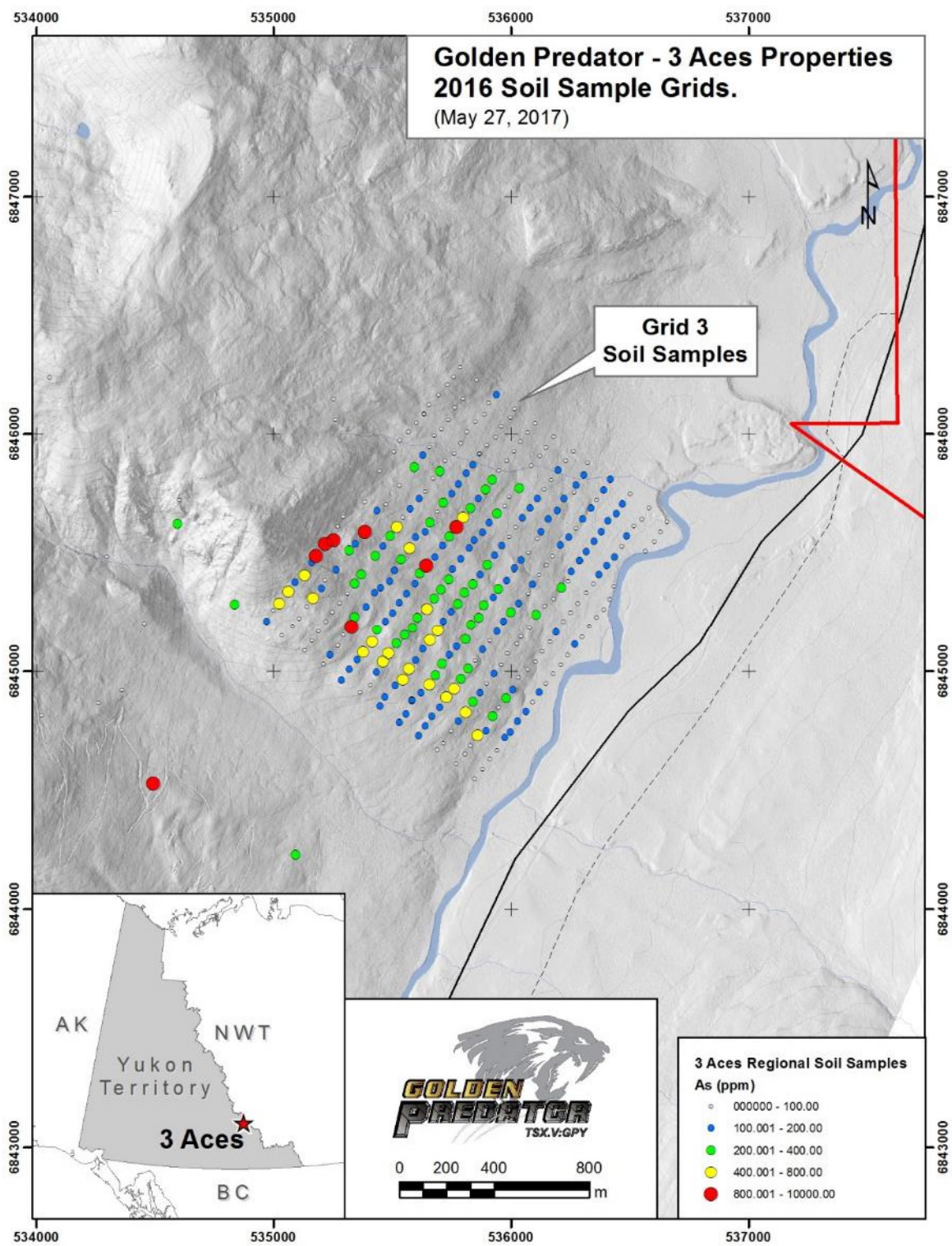
**Figure 8.4.** A map showing gold (Au) values (ppb) for Grid 2 soil samples.



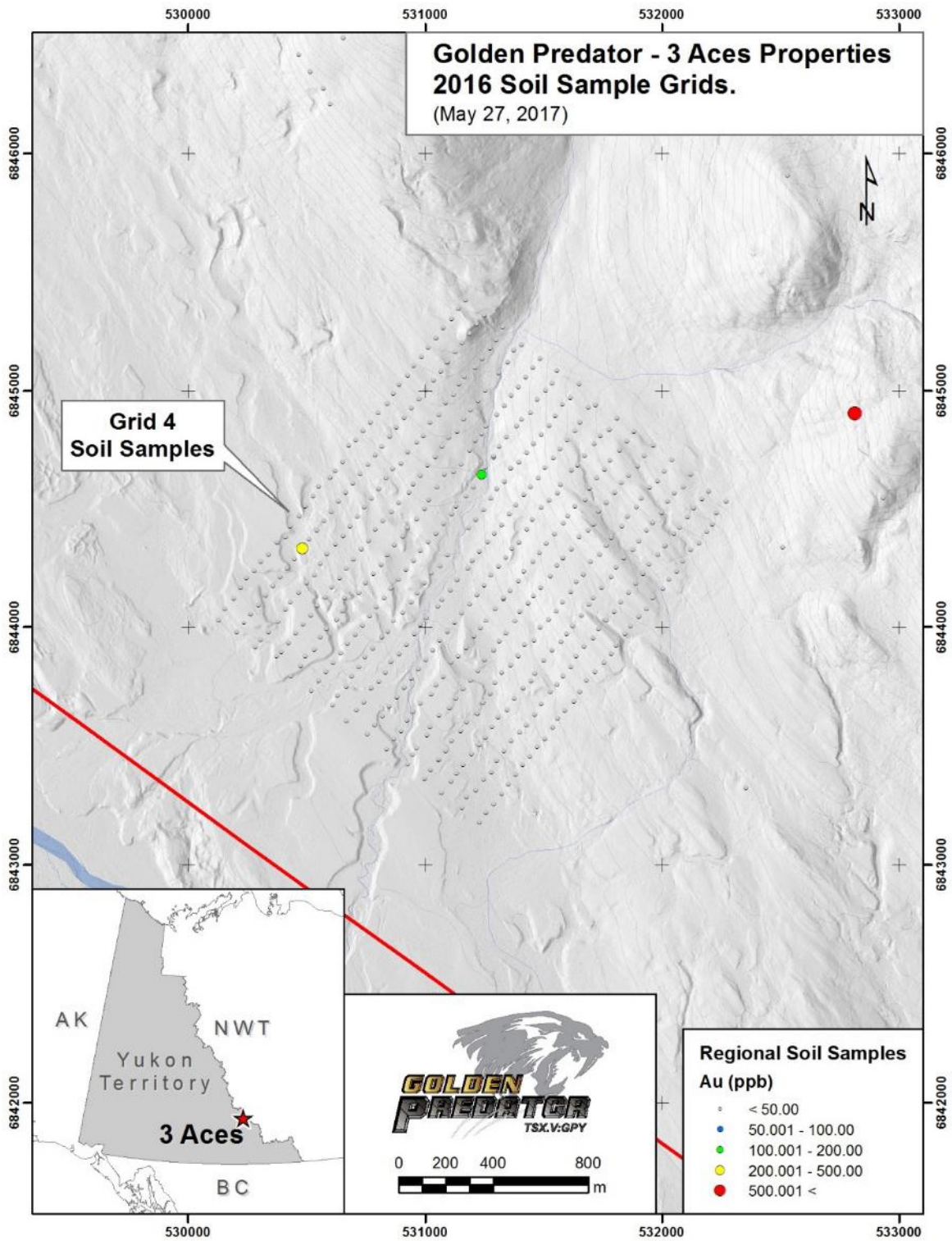
**Figure 8.5.** A map showing arsenic (As) values (ppm) for Grid 2 soil samples.



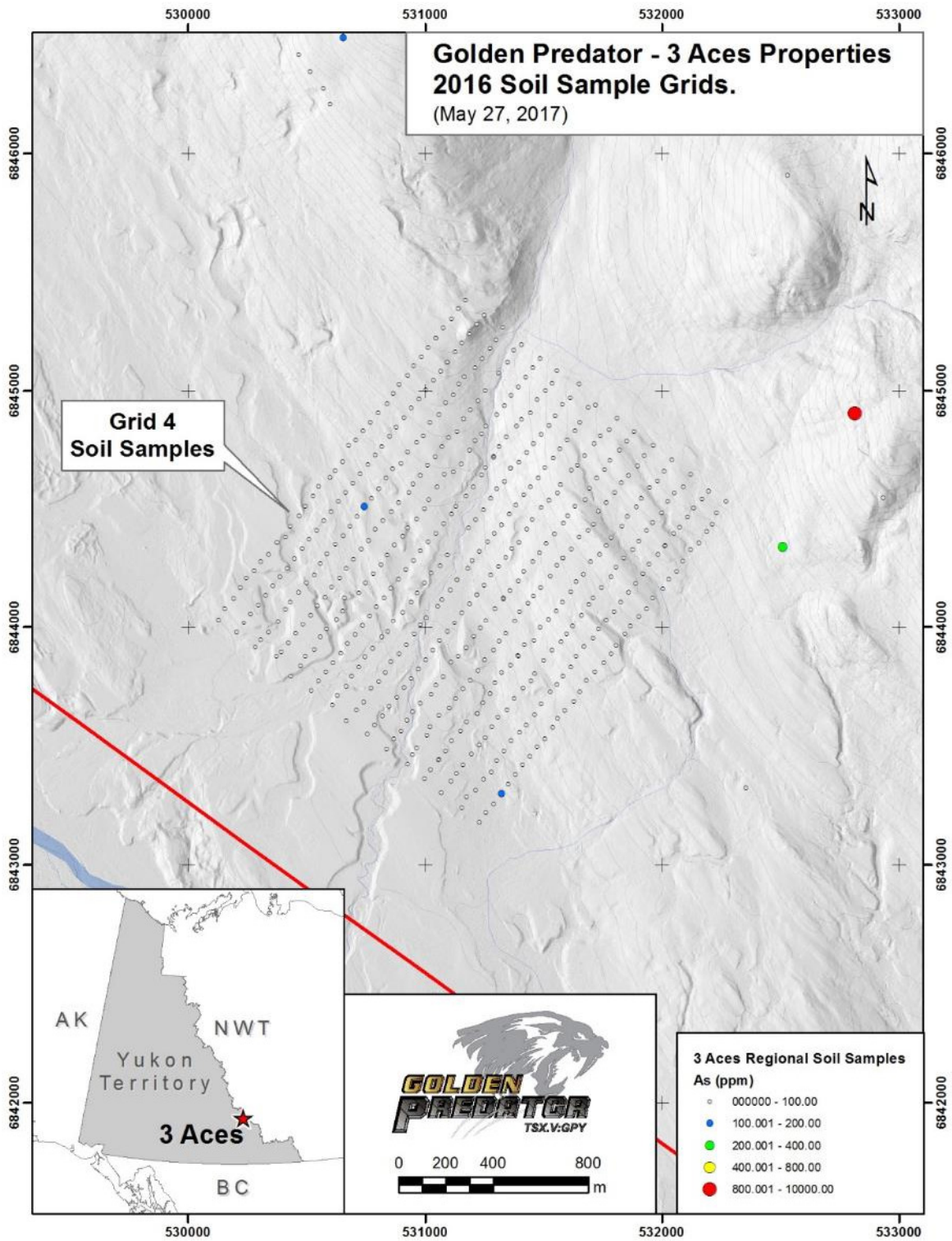
**Figure 8.6.** A map showing gold (Au) values (ppb) for Grid 3 soil samples.



**Figure 8.7.** A map showing arsenic (As) values (ppm) for Grid 3 soil samples.



**Figure 8.8.** A map showing gold (Au) values (ppb) for Grid 4 soil samples.



**Figure 8.9.** A map showing arsenic (As) values (ppm) for Grid 4 soil samples.

## 10.0. Interpretations, Recommendations, and Conclusions

### Interpretations

Both grid and contour soil sampling have been successful in producing samples with anomalous (>200ppb) gold and/or anomalous arsenic (>200ppm) and have outlined several key areas for follow up. (Figure 10.1.). Seven larger targets (targets A-G), and 5 smaller targets (targets H-L) have been defined with anomalous gold and/or arsenic.

Target A, located in Grid 3, consists of a large (1.0kmx1.0km) zone with anomalous gold values up to 605ppb and arsenic values up to 1,859ppm arsenic. Although the width of the anomaly may have artificially extended downhill through downslope dispersion the persistence of anomalous samples across topography makes this a significant target for follow up exploration.

Target B consists of 7 contour soil samples that returned anomalous (<200ppm) arsenic values up to 1,243.1ppm. These contour samples are low in gold but should be followed up with a more detailed grid since gold is often associates with high arsenic.

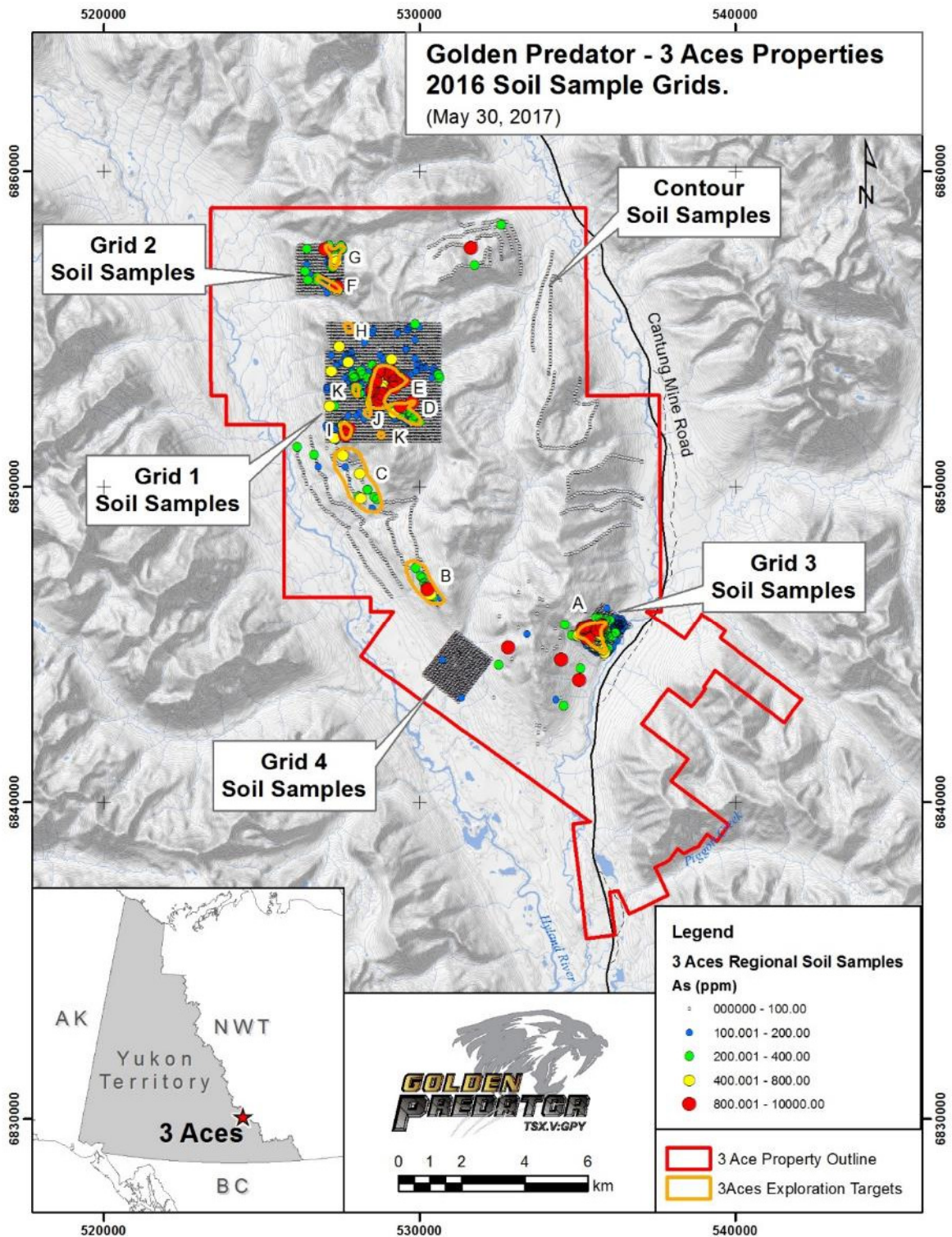
Target C consists of 7 contour soil samples with anomalous (<200ppm) arsenic (up to 560.3ppm) and 3 samples with anomalous gold up to 149ppb.

Target D, located in Grid 1, and consists of 11 samples with anomalous (<200ppm) arsenic up to 1,103ppm, and 3 samples with anomalous gold up to 241ppb Au.

Target E, located in Grid 1, and consists of 25 samples with anomalous (>200ppm) arsenic up to 5,372ppm and 7 samples with anomalous gold up to 528ppb Au.

Targets F and G are weaker targets located in Grid 2 and consists several samples with anomalous (>200ppm) arsenic up to 1,302ppm As (target F) and 890 ppm As (target G), and one sample with anomalous gold value of 1,120ppb Au (target F).

Targets H-L are small, lower priority targets with 1-3 samples returning anomalous arsenic or gold.



**Figure 10.1.** An arsenic in soil map showing the exploration targets that require follow up exploration including more detailed soil sample grids, and prospecting.

## **Recommendations**

Based on the results of the 2016 program, along with the historical exploration on the 3 Aces Property, follow up work is recommended for the target areas defined above.

### *Detailed Soil Grids*

Infill soil sampling and prospecting is recommended around the exploration targets outlined above. Detailed infill soil grids with minimum 50m spaced E-W lines with 25m spaced samples would help define the soil anomalies and build confidence in each of the anomalies.

### *Regional Soil Grids*

Wide spaced regional soil grids should be considered in areas without detailed soil grids to potentially produce targets for detailed soil grids.

### *Prospecting*

It is recommended that the target areas outlined above be prospected for gold bearing veins in float, sub-crop or outcrop.

### *Geological Mapping*

Detailed (and regional) geological mapping would help define drill targets around each of the targets outlined above.

## **Conclusions**

Soil sampling continues to be a successful method of exploration on the 3 Aces Property, beginning with a large-scale contour and regional grid sampling, followed up by progressively more detailed soil grids around existing anomalies. This method of exploration continues to produce viable exploration targets that have, in the past, led to the discoveries of significant gold bearing veins on the 3 Aces Property. Additional work is recommended to follow up on the anomalies described above.

## 11.0. References

- Gordey, S.P. and Anderson, R.G., 1993. Evolution of the Northern Cordilleran Miogeocline, Nahanni map area (105I), Yukon and Northwest Territories. Geological Survey of Canada, Ottawa, GSC Memoir 428, 214 p.
- Goodfellow, W., 2007, Base Metal Metallogeny of the Selwyn Basin, Canada, in Goodfellow, W.D., ed., Mineral Deposits of Canada: A Synthesis of Major Deposit-Types, District Metallogeny, the Evolution of Geological Provinces, and Exploration Methods: Geological Association of Canada, Mineral Deposits Division, Special Publication No. 5, p. 553-579.
- Hart, C.J.R. and Lewis, L.L., 2006. Gold mineralization in the upper Hyland River area: A non-magmatic origin. In: Yukon Exploration and Geology 2005, D.S. Edmond, G.D. Bradshaw, L.L. Lewis and L.H. Weston (eds.), Yukon Geological Survey, p. 109-125.
- Roots, E.F., Green, L.H., Roddick, J.A. and Blusson, S.L., 1966. Geology, Frances Lake, Yukon Territory and district of Mackenzie. Geological Survey of Canada, Preliminary Map 6-1966. Scale 1:253,440.
- Moynihan, D., 2016b. Bedrock geology of the upper Hyland River area, NTS 105H/8,9,10,15,16 and 105I/2, southeast Yukon. Yukon Geological Survey, Open File 2016-36, scale 1:50 000.
- Moynihan, D., 2017. Progress report on geological mapping in the upper Hyland River region of southeastern Yukon (parts of NTS 105H/08,09,10,15,16 and 105I/02). In: Yukon Exploration and Geology 2016, K.E. MacFarlane and L.H. Weston (eds.), Yukon Geological Survey, p. 163-180.

## 12.0. Statement of Expenditures

<b>Company</b>	<b>Description</b>	<b>Total Expenditure</b>
Aurora Geoscience	Soil Sample Crew collect 4,803 Samples	\$96,863.82
Bureau Veritas	Dry, prep, and assay 4,803 samples	\$86,062.40
Geologist	Report writing (7 days at \$400 per day)	\$2,800.00
<b>Total</b>		<b>\$185,726.22</b>

## 13.0. Statement of Qualifications

I, Gilles Dessureau, M.Sc., P.Geo., of 308-3131 Main St., Vancouver, B.C., Canada, V5T3G8 do hereby certify that:

I am currently a Senior Geologist for Golden Predator Mining Corp. I am not independent of Golden Predator Mining Corp., as described in Section 1.5 of NI 43-101.

I graduated from St. Mary's University in Halifax, Nova Scotia with a Bachelor of Science with Honors in Geology in 1998, and I graduated from Laurentian University in Sudbury, Ontario with a Master of Science in Geology in 2003.

I have worked in the mineral exploration industry continuously since 2003, in Ontario, British Columbia, and The Yukon Territory, Canada, and intermittently since 1996 in Ontario and Nova Scotia during my education and training.

I am a registered member of the Association of Profession Engineers and Geoscientists of British Columbia, since August 2007. Membership number 31462 and I am a non-practicing member of the Association of Profession Geoscientists of Ontario, since May 2007. Membership number 1459.

I have prepared this report titled 'Assessment Report describing the 2016 Soil Sampling Program on the 3 Aces Property' dated June 1, 2017. The report was prepared to fulfill the assessment requirements for the 3 Aces Property as laid out in the Quartz Mining Act.

I have read the definition of "Qualified Person" set out in National Instrument 43-101("NI 43-101") and certify that by reason of my education, affiliation with a professional association and past relevant work experience, I fulfill the requirements to be a "Qualified Person" for the purposes of NI 43-101.

I have read National Instruments 43-101 and the report titled 'Amended Technical Report Describing the Geology, Mineralization, and Exploration on the 3 Aces Property Watson Lake Mining District, Yukon, Canada' dated February 24, 2017, has been prepared in compliance with the National Instrument.

I am not aware of any material fact or material change with respect to the contents of this report that is not reflected in this report, the omission to disclose which makes this report misleading.

Dated June 1, 2017

Respectfully submitted,



**Gilles Dessureau, M.Sc., P.Geo**

Senior Geologist

Golden Predator Mining Corp.

# Appendix I. Soil Sample Locations

**Appendix 1.** A list of Soil sample locations

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA068001	soil	2016	UTM83-9	530650	6851654	22-Jul-16	12.7	WHI16000177	0.001	1
AA068002	soil	2016	UTM83-9	530602	6851660	22-Jul-16	20.6	WHI16000177	0.0001	0.1
AA068003	soil	2016	UTM83-9	530565	6851662	22-Jul-16	21.7	WHI16000177	0.0015	1.5
AA068004	soil	2016	UTM83-9	530505	6851660	22-Jul-16	N/A	WHI16000177	N/A	N/A
AA068005	soil	2016	UTM83-9	530450	6851660	22-Jul-16	11.6	WHI16000177	0.0007	0.7
AA068006	soil	2016	UTM83-9	530409	6851657	22-Jul-16	19.2	WHI16000177	0.0098	9.8
AA068007	soil	2016	UTM83-9	530358	6851663	22-Jul-16	14.9	WHI16000177	0.0008	0.8
AA068008	soil	2016	UTM83-9	530304	6851670	22-Jul-16	13.6	WHI16000177	0.0001	0.1
AA068009	soil	2016	UTM83-9	530254	6851655	22-Jul-16	16.1	WHI16000177	0.0007	0.7
AA068010	soil	2016	UTM83-9	530204	6851655	22-Jul-16	N/A	WHI16000177	N/A	N/A
AA068011	soil	2016	UTM83-9	530151	6851643	22-Jul-16	17.2	WHI16000177	0.0008	0.8
AA068012	soil	2016	UTM83-9	530104	6851657	22-Jul-16	19.6	WHI16000177	0.0004	0.4
AA068013	soil	2016	UTM83-9	530057	6851654	22-Jul-16	17	WHI16000177	0.0329	32.9
AA068014	soil	2016	UTM83-9	530005	6851654	22-Jul-16	15.7	WHI16000177	0.0008	0.8
AA068015	soil	2016	UTM83-9	529958	6851662	22-Jul-16	20.7	WHI16000177	0.0009	0.9
AA068016	soil	2016	UTM83-9	529911	6851657	22-Jul-16	40.9	WHI16000177	0.0018	1.8
AA068017	soil	2016	UTM83-9	529852	6851656	22-Jul-16	17.8	WHI16000177	0.0007	0.7
AA068018	soil	2016	UTM83-9	529798	6851660	22-Jul-16	17.8	WHI16000177	0.0003	0.3
AA068019	soil	2016	UTM83-9	529750	6851664	22-Jul-16	21.4	WHI16000177	0.0014	1.4
AA068020	soil	2016	UTM83-9	529703	6851655	22-Jul-16	24.1	WHI16000177	0.0008	0.8
AA068021	soil	2016	UTM83-9	529646	6851659	22-Jul-16	34.9	WHI16000177	0.0004	0.4
AA068022	soil	2016	UTM83-9	529602	6851661	22-Jul-16	22.3	WHI16000177	0.0006	0.6
AA068023	soil	2016	UTM83-9	529548	6851661	22-Jul-16	22.4	WHI16000177	0.0026	2.6
AA068024	soil	2016	UTM83-9	529507	6851655	22-Jul-16	20.2	WHI16000177	0.0047	4.7
AA068025	soil	2016	UTM83-9	529449	6851664	22-Jul-16	35.5	WHI16000177	0.0066	6.6
AA068026	soil	2016	UTM83-9	529402	6851659	22-Jul-16	21.1	WHI16000177	0.0001	0.1
AA068027	soil	2016	UTM83-9	529354	6851663	22-Jul-16	11	WHI16000177	0.0009	0.9
AA068028	soil	2016	UTM83-9	529304	6851662	22-Jul-16	32.1	WHI16000177	0.0116	11.6
AA068029	soil	2016	UTM83-9	529252	6851658	22-Jul-16	26.9	WHI16000177	0.0042	4.2
AA068030	soil	2016	UTM83-9	529211	6851653	22-Jul-16	12.8	WHI16000177	0.0004	0.4
AA068031	soil	2016	UTM83-9	529153	6851652	23-Jul-16	22	WHI16000177	0.0062	6.2
AA068032	soil	2016	UTM83-9	529106	6851662	23-Jul-16	19.6	WHI16000177	0.0007	0.7
AA068033	soil	2016	UTM83-9	529045	6851668	23-Jul-16	25.5	WHI16000177	0.0038	3.8
AA068034	soil	2016	UTM83-9	529007	6851667	23-Jul-16	13.3	WHI16000177	0.0008	0.8
AA068035	soil	2016	UTM83-9	528951	6851662	23-Jul-16	8.6	WHI16000177	0.0118	11.8
AA068036	soil	2016	UTM83-9	528900	6851669	23-Jul-16	17.6	WHI16000177	0.002	2
AA068037	soil	2016	UTM83-9	528857	6851656	23-Jul-16	18.3	WHI16000177	0.0028	2.8
AA068038	soil	2016	UTM83-9	528809	6851655	23-Jul-16	26.9	WHI16000177	0.0076	7.6
AA068039	soil	2016	UTM83-9	528759	6851661	23-Jul-16	81.8	WHI16000177	0.4182	418.2
AA068040	soil	2016	UTM83-9	528759	6851660	23-Jul-16	78.5	WHI16000177	0.0176	17.6
AA068041	soil	2016	UTM83-9	528708	6851660	23-Jul-16	96.5	WHI16000177	0.0201	20.1
AA068042	soil	2016	UTM83-9	528657	6851664	23-Jul-16	18	WHI16000177	0.0041	4.1
AA068043	soil	2016	UTM83-9	528599	6851664	23-Jul-16	24.7	WHI16000177	0.0065	6.5
AA068044	soil	2016	UTM83-9	528555	6851661	23-Jul-16	43.4	WHI16000177	0.0079	7.9
AA068045	soil	2016	UTM83-9	528503	6851655	23-Jul-16	62.4	WHI16000177	0.0296	29.6
AA068046	soil	2016	UTM83-9	528448	6851653	23-Jul-16	25	WHI16000177	0.0088	8.8
AA068047	soil	2016	UTM83-9	528400	6851655	23-Jul-16	54	WHI16000177	0.0113	11.3
AA068048	soil	2016	UTM83-9	528352	6851662	23-Jul-16	40.1	WHI16000177	0.0132	13.2
AA068049	soil	2016	UTM83-9	528307	6851658	23-Jul-16	34.5	WHI16000177	0.0065	6.5
AA068050	soil	2016	UTM83-9	528265	6851665	23-Jul-16	42	WHI16000177	0.0108	10.8
AA068051	soil	2016	UTM83-9	530649	6851757	22-Jul-16	27.2	WHI16000177	0.0021	2.1
AA068052	soil	2016	UTM83-9	530607	6851762	22-Jul-16	14.1	WHI16000177	0.0005	0.5
AA068053	soil	2016	UTM83-9	530557	6851758	22-Jul-16	14.7	WHI16000177	0.0007	0.7
AA068054	soil	2016	UTM83-9	530503	6851759	22-Jul-16	18.4	WHI16000177	0.0015	1.5
AA068055	soil	2016	UTM83-9	530452	6851760	22-Jul-16	9.9	WHI16000177	0.0007	0.7
AA068056	soil	2016	UTM83-9	530406	6851757	22-Jul-16	11.6	WHI16000177	0.0003	0.3
AA068057	soil	2016	UTM83-9	530359	6851759	22-Jul-16	2.6	WHI16000177	0.0001	0.1
AA068058	soil	2016	UTM83-9	530305	6851759	22-Jul-16	2.3	WHI16000177	0.0001	0.1
AA068059	soil	2016	UTM83-9	530249	6851752	22-Jul-16	13.1	WHI16000177	0.0017	1.7
AA068060	soil	2016	UTM83-9	530205	6851753	22-Jul-16	10.3	WHI16000177	0.0001	0.1

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA068061	soil	2016	UTM83-9	530156	6851762	22-Jul-16	19.3	WHI16000177	0.0004	0.4
AA068062	soil	2016	UTM83-9	530102	6851758	22-Jul-16	19.6	WHI16000177	0.0006	0.6
AA068063	soil	2016	UTM83-9	530054	6851759	22-Jul-16	12.7	WHI16000177	0.0001	0.1
AA068064	soil	2016	UTM83-9	530002	6851760	22-Jul-16	17.2	WHI16000177	0.0001	0.1
AA068065	soil	2016	UTM83-9	529945	6851755	22-Jul-16	11.6	WHI16000177	0.0006	0.6
AA068066	soil	2016	UTM83-9	529901	6851765	22-Jul-16	13.7	WHI16000177	0.0005	0.5
AA068067	soil	2016	UTM83-9	529853	6851763	22-Jul-16	31.5	WHI16000177	0.0017	1.7
AA068068	soil	2016	UTM83-9	529799	6851759	22-Jul-16	22	WHI16000177	0.0007	0.7
AA068069	soil	2016	UTM83-9	529751	6851761	22-Jul-16	32.2	WHI16000177	0.0034	3.4
AA068070	soil	2016	UTM83-9	529707	6851755	22-Jul-16	14.6	WHI16000177	0.0001	0.1
AA068071	soil	2016	UTM83-9	529650	6851759	22-Jul-16	14.7	WHI16000177	0.0049	4.9
AA068072	soil	2016	UTM83-9	529603	6851762	22-Jul-16	7.2	WHI16000177	0.0033	3.3
AA068073	soil	2016	UTM83-9	529547	6851767	22-Jul-16	N/A	WHI16000177	N/A	N/A
AA068074	soil	2016	UTM83-9	529507	6851770	22-Jul-16	17.4	WHI16000177	0.003	3
AA068075	soil	2016	UTM83-9	529458	6851767	22-Jul-16	18.6	WHI16000177	0.0026	2.6
AA068076	soil	2016	UTM83-9	529393	6851767	22-Jul-16	11.9	WHI16000177	0.0013	1.3
AA068077	soil	2016	UTM83-9	529358	6851763	22-Jul-16	3	WHI16000177	0.0001	0.1
AA068078	soil	2016	UTM83-9	529303	6851770	22-Jul-16	10.8	WHI16000177	0.001	1
AA068079	soil	2016	UTM83-9	529249	6851759	22-Jul-16	2.8	WHI16000177	0.0006	0.6
AA068080	soil	2016	UTM83-9	529205	6851758	22-Jul-16	10	WHI16000177	0.0015	1.5
AA068081	soil	2016	UTM83-9	529158	6851766	23-Jul-16	9.3	WHI16000177	0.0012	1.2
AA068082	soil	2016	UTM83-9	529098	6851760	23-Jul-16	20.6	WHI16000177	0.0026	2.6
AA068083	soil	2016	UTM83-9	529058	6851762	23-Jul-16	22.8	WHI16000177	0.0055	5.5
AA068084	soil	2016	UTM83-9	528994	6851763	23-Jul-16	29.4	WHI16000177	0.0122	12.2
AA068085	soil	2016	UTM83-9	528954	6851755	23-Jul-16	20.5	WHI16000177	0.0075	7.5
AA068086	soil	2016	UTM83-9	528901	6851770	23-Jul-16	12.6	WHI16000177	0.0017	1.7
AA068087	soil	2016	UTM83-9	528856	6851765	23-Jul-16	20.5	WHI16000177	0.006	6
AA068088	soil	2016	UTM83-9	528806	6851763	23-Jul-16	33.3	WHI16000177	0.0059	5.9
AA068089	soil	2016	UTM83-9	528806	6851764	23-Jul-16	34.7	WHI16000177	0.0069	6.9
AA068090	soil	2016	UTM83-9	528756	6851759	23-Jul-16	54.1	WHI16000177	0.0162	16.2
AA068091	soil	2016	UTM83-9	528709	6851775	23-Jul-16	61.9	WHI16000177	0.0188	18.8
AA068092	soil	2016	UTM83-9	528654	6851773	23-Jul-16	64.8	WHI16000177	0.0188	18.8
AA068093	soil	2016	UTM83-9	528607	6851754	23-Jul-16	29.8	WHI16000177	0.0104	10.4
AA068094	soil	2016	UTM83-9	528546	6851764	23-Jul-16	25.7	WHI16000177	0.0098	9.8
AA068095	soil	2016	UTM83-9	528502	6851757	23-Jul-16	23.4	WHI16000177	0.0082	8.2
AA068096	soil	2016	UTM83-9	528453	6851752	23-Jul-16	27.6	WHI16000177	0.006	6
AA068097	soil	2016	UTM83-9	528409	6851755	23-Jul-16	46.2	WHI16000177	0.0407	40.7
AA068098	soil	2016	UTM83-9	528352	6851760	23-Jul-16	34.4	WHI16000177	0.0077	7.7
AA068099	soil	2016	UTM83-9	528304	6851756	23-Jul-16	40.9	WHI16000177	0.0088	8.8
AA068100	soil	2016	UTM83-9	528253	6851763	23-Jul-16	47.7	WHI16000177	0.0111	11.1
AA068101	soil	2016	UTM83-9	530654	6851468	22-Jul-16	33.3	WHI16000177	0.0038	3.8
AA068102	soil	2016	UTM83-9	530604	6851459	22-Jul-16	11.2	WHI16000177	0.0015	1.5
AA068103	soil	2016	UTM83-9	530555	6851460	22-Jul-16	11.3	WHI16000177	0.0006	0.6
AA068104	soil	2016	UTM83-9	530509	6851461	22-Jul-16	18.5	WHI16000177	0.0015	1.5
AA068105	soil	2016	UTM83-9	530466	6851457	22-Jul-16	20.2	WHI16000177	0.0021	2.1
AA068106	soil	2016	UTM83-9	530406	6851475	22-Jul-16	36.6	WHI16000177	0.003	3
AA068107	soil	2016	UTM83-9	530352	6851463	22-Jul-16	33.3	WHI16000177	0.0017	1.7
AA068108	soil	2016	UTM83-9	530317	6851456	22-Jul-16	25.8	WHI16000177	0.0025	2.5
AA068109	soil	2016	UTM83-9	530251	6851458	22-Jul-16	20	WHI16000177	0.0013	1.3
AA068110	soil	2016	UTM83-9	530210	6851458	22-Jul-16	21	WHI16000177	0.0013	1.3
AA068111	soil	2016	UTM83-9	530156	6851457	22-Jul-16	16.5	WHI16000177	0.0007	0.7
AA068112	soil	2016	UTM83-9	530103	6851463	22-Jul-16	15.4	WHI16000177	0.0011	1.1
AA068113	soil	2016	UTM83-9	530061	6851459	22-Jul-16	6	WHI16000177	0.0009	0.9
AA068114	soil	2016	UTM83-9	530003	6851461	22-Jul-16	20.2	WHI16000177	0.0024	2.4
AA068115	soil	2016	UTM83-9	529952	6851463	22-Jul-16	47.2	WHI16000177	0.0033	3.3
AA068116	soil	2016	UTM83-9	529907	6851458	22-Jul-16	23.3	WHI16000177	0.002	2
AA068117	soil	2016	UTM83-9	529854	6851460	22-Jul-16	5.4	WHI16000177	0.0013	1.3
AA068118	soil	2016	UTM83-9	529811	6851456	22-Jul-16	23.3	WHI16000177	0.0049	4.9
AA068119	soil	2016	UTM83-9	529740	6851460	22-Jul-16	23	WHI16000177	0.0086	8.6
AA068120	soil	2016	UTM83-9	529705	6851468	22-Jul-16	25.3	WHI16000177	0.0031	3.1
AA068121	soil	2016	UTM83-9	529656	6851467	22-Jul-16	27.2	WHI16000177	0.0033	3.3

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA068122	soil	2016	UTM83-9	529611	6851457	22-Jul-16	14	WHI16000177	0.002	2
AA068123	soil	2016	UTM83-9	529556	6851453	22-Jul-16	63.5	WHI16000177	0.0177	17.7
AA068124	soil	2016	UTM83-9	529504	6851455	22-Jul-16	32.7	WHI16000177	0.0053	5.3
AA068125	soil	2016	UTM83-9	529453	6851465	22-Jul-16	45.6	WHI16000177	0.0077	7.7
AA068126	soil	2016	UTM83-9	529413	6851460	23-Jul-16	48.7	WHI16000177	0.0069	6.9
AA068127	soil	2016	UTM83-9	529356	6851458	23-Jul-16	17	WHI16000177	0.0023	2.3
AA068128	soil	2016	UTM83-9	529310	6851460	23-Jul-16	19.5	WHI16000177	0.0027	2.7
AA068129	soil	2016	UTM83-9	529259	6851462	23-Jul-16	29.1	WHI16000177	0.0135	13.5
AA068130	soil	2016	UTM83-9	529206	6851460	23-Jul-16	13.1	WHI16000177	0.0034	3.4
AA068131	soil	2016	UTM83-9	529156	6851458	23-Jul-16	11.3	WHI16000177	0.0034	3.4
AA068132	soil	2016	UTM83-9	529106	6851459	23-Jul-16	56	WHI16000177	0.0218	21.8
AA068133	soil	2016	UTM83-9	529059	6851453	23-Jul-16	6.9	WHI16000177	0.0028	2.8
AA068134	soil	2016	UTM83-9	528996	6851454	23-Jul-16	5.8	WHI16000177	0.0012	1.2
AA068135	soil	2016	UTM83-9	528958	6851456	23-Jul-16	15.2	WHI16000177	0.0028	2.8
AA068136	soil	2016	UTM83-9	528909	6851458	23-Jul-16	14.8	WHI16000177	0.0055	5.5
AA068137	soil	2016	UTM83-9	528861	6851459	23-Jul-16	19.6	WHI16000177	0.0052	5.2
AA068138	soil	2016	UTM83-9	528803	6851457	23-Jul-16	12.8	WHI16000177	0.0041	4.1
AA068139	soil	2016	UTM83-9	528802	6851456	23-Jul-16	12.4	WHI16000177	0.0029	2.9
AA068140	soil	2016	UTM83-9	528759	6851461	23-Jul-16	11.1	WHI16000177	0.0018	1.8
AA068141	soil	2016	UTM83-9	528708	6851461	23-Jul-16	23.1	WHI16000177	0.0121	12.1
AA068142	soil	2016	UTM83-9	528660	6851462	23-Jul-16	35.4	WHI16000177	0.0084	8.4
AA068143	soil	2016	UTM83-9	528602	6851454	23-Jul-16	57.4	WHI16000177	0.0173	17.3
AA068144	soil	2016	UTM83-9	528550	6851459	23-Jul-16	50.2	WHI16000177	0.0137	13.7
AA068145	soil	2016	UTM83-9	528508	6851458	23-Jul-16	40.7	WHI16000177	0.0111	11.1
AA068146	soil	2016	UTM83-9	528455	6851459	23-Jul-16	28.4	WHI16000177	0.0062	6.2
AA068147	soil	2016	UTM83-9	528408	6851460	23-Jul-16	33.8	WHI16000177	0.0167	16.7
AA068148	soil	2016	UTM83-9	528355	6851461	23-Jul-16	20	WHI16000177	0.0049	4.9
AA068149	soil	2016	UTM83-9	528306	6851456	23-Jul-16	30.4	WHI16000177	0.0078	7.8
AA068150	soil	2016	UTM83-9	528258	6851455	23-Jul-16	35.1	WHI16000177	0.008	8
AA068151	soil	2016	UTM83-9	530655	6851567	23-Jul-16	14.5	WHI16000177	0.0001	0.1
AA068152	soil	2016	UTM83-9	530611	6851562	23-Jul-16	12.3	WHI16000177	0.0011	1.1
AA068153	soil	2016	UTM83-9	530555	6851561	23-Jul-16	22.8	WHI16000177	0.0024	2.4
AA068154	soil	2016	UTM83-9	530510	6851558	23-Jul-16	17.9	WHI16000177	0.0016	1.6
AA068155	soil	2016	UTM83-9	530460	6851563	23-Jul-16	17.6	WHI16000177	0.0013	1.3
AA068156	soil	2016	UTM83-9	530351	6851564	23-Jul-16	0.8	WHI16000177	0.0001	0.1
AA068157	soil	2016	UTM83-9	530305	6851557	23-Jul-16	20.2	WHI16000177	0.0016	1.6
AA068158	soil	2016	UTM83-9	530254	6851558	23-Jul-16	23.8	WHI16000177	0.0037	3.7
AA068159	soil	2016	UTM83-9	530209	6851560	23-Jul-16	18.3	WHI16000177	0.0019	1.9
AA068160	soil	2016	UTM83-9	530155	6851562	23-Jul-16	4.1	WHI16000177	0.0001	0.1
AA068161	soil	2016	UTM83-9	530103	6851555	23-Jul-16	17.7	WHI16000177	0.0003	0.3
AA068162	soil	2016	UTM83-9	530062	6851561	23-Jul-16	19.1	WHI16000177	0.0001	0.1
AA068163	soil	2016	UTM83-9	530003	6851558	23-Jul-16	23.4	WHI16000177	0.0015	1.5
AA068164	soil	2016	UTM83-9	529944	6851560	23-Jul-16	18	WHI16000177	0.0005	0.5
AA068165	soil	2016	UTM83-9	529903	6851561	23-Jul-16	5	WHI16000177	0.0013	1.3
AA068166	soil	2016	UTM83-9	529855	6851562	23-Jul-16	10.1	WHI16000177	0.0019	1.9
AA068167	soil	2016	UTM83-9	529803	6851560	23-Jul-16	9.2	WHI16000177	0.0031	3.1
AA068168	soil	2016	UTM83-9	529752	6851555	23-Jul-16	21.5	WHI16000177	0.002	2
AA068169	soil	2016	UTM83-9	529712	6851556	23-Jul-16	18.8	WHI16000177	0.0018	1.8
AA068170	soil	2016	UTM83-9	529656	6851557	23-Jul-16	21.7	WHI16000177	0.006	6
AA068171	soil	2016	UTM83-9	529609	6851558	23-Jul-16	34.5	WHI16000177	0.0043	4.3
AA068172	soil	2016	UTM83-9	529557	6851558	23-Jul-16	39.9	WHI16000177	0.0037	3.7
AA068173	soil	2016	UTM83-9	529503	6851551	23-Jul-16	40.3	WHI16000177	0.0131	13.1
AA068174	soil	2016	UTM83-9	529458	6851558	23-Jul-16	9.4	WHI16000177	0.0006	0.6
AA068175	soil	2016	UTM83-9	529407	6851561	23-Jul-16	267.8	WHI16000177	0.0559	55.9
AA068176	soil	2016	UTM83-9	529354	6851557	23-Jul-16	19.8	WHI16000177	0.0046	4.6
AA068177	soil	2016	UTM83-9	529303	6851563	23-Jul-16	23.5	WHI16000177	0.0098	9.8
AA068178	soil	2016	UTM83-9	529256	6851562	23-Jul-16	10	WHI16000177	0.0015	1.5
AA068179	soil	2016	UTM83-9	529205	6851561	23-Jul-16	4.6	WHI16000177	0.0014	1.4
AA068180	soil	2016	UTM83-9	529154	6851570	23-Jul-16	94	WHI16000177	0.0191	19.1
AA068181	soil	2016	UTM83-9	529100	6851555	23-Jul-16	54	WHI16000177	0.0167	16.7
AA068182	soil	2016	UTM83-9	529061	6851557	23-Jul-16	14.6	WHI16000177	0.0026	2.6

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA068183	soil	2016	UTM83-9	529006	6851558	23-Jul-16	10.8	WHI16000177	0.0013	1.3
AA068184	soil	2016	UTM83-9	528953	6851558	23-Jul-16	11.7	WHI16000177	0.0028	2.8
AA068185	soil	2016	UTM83-9	528903	6851560	23-Jul-16	12.9	WHI16000177	0.0029	2.9
AA068186	soil	2016	UTM83-9	528852	6851558	23-Jul-16	49.4	WHI16000177	0.0105	10.5
AA068187	soil	2016	UTM83-9	528803	6851561	23-Jul-16	33.6	WHI16000177	0.0049	4.9
AA068188	soil	2016	UTM83-9	528756	6851558	23-Jul-16	85.9	WHI16000177	0.0153	15.3
AA068189	soil	2016	UTM83-9	528750	6851560	23-Jul-16	64.9	WHI16000177	0.0189	18.9
AA068190	soil	2016	UTM83-9	528702	6851564	23-Jul-16	37.9	WHI16000177	0.0064	6.4
AA068191	soil	2016	UTM83-9	528657	6851554	23-Jul-16	45.7	WHI16000177	0.0058	5.8
AA068192	soil	2016	UTM83-9	528600	6851556	23-Jul-16	37.4	WHI16000177	0.0058	5.8
AA068193	soil	2016	UTM83-9	528549	6851559	23-Jul-16	32.3	WHI16000177	0.0088	8.8
AA068194	soil	2016	UTM83-9	528499	6851560	23-Jul-16	24.4	WHI16000177	0.0045	4.5
AA068195	soil	2016	UTM83-9	528451	6851559	23-Jul-16	28	WHI16000177	0.0063	6.3
AA068196	soil	2016	UTM83-9	528399	6851559	23-Jul-16	44.3	WHI16000177	0.0109	10.9
AA068197	soil	2016	UTM83-9	528349	6851558	23-Jul-16	35.2	WHI16000177	0.0106	10.6
AA068198	soil	2016	UTM83-9	528303	6851556	23-Jul-16	34.9	WHI16000177	0.0075	7.5
AA068199	soil	2016	UTM83-9	528255	6851562	23-Jul-16	31.1	WHI16000177	0.005	5
AA068200	soil	2016	UTM83-9	528208	6851559	23-Jul-16	30.6	WHI16000177	0.0095	9.5
AA068201	soil	2016	UTM83-9	528210	6851661	23-Jul-16	39.8	WHI16000177	0.0103	10.3
AA068202	soil	2016	UTM83-9	528164	6851661	23-Jul-16	22	WHI16000177	0.0023	2.3
AA068203	soil	2016	UTM83-9	528104	6851666	23-Jul-16	39.3	WHI16000177	0.0021	2.1
AA068204	soil	2016	UTM83-9	528055	6851666	23-Jul-16	22.6	WHI16000177	0.0034	3.4
AA068205	soil	2016	UTM83-9	528003	6851668	23-Jul-16	34	WHI16000177	0.0074	7.4
AA068206	soil	2016	UTM83-9	527957	6851663	23-Jul-16	22.3	WHI16000177	0.0057	5.7
AA068207	soil	2016	UTM83-9	527908	6851662	23-Jul-16	13.1	WHI16000177	0.0011	1.1
AA068208	soil	2016	UTM83-9	527860	6851658	23-Jul-16	17.1	WHI16000177	0.0016	1.6
AA068209	soil	2016	UTM83-9	527810	6851660	23-Jul-16	1.1	WHI16000177	0.0001	0.1
AA068210	soil	2016	UTM83-9	527771	6851664	23-Jul-16	26.5	WHI16000177	0.002	2
AA068211	soil	2016	UTM83-9	530640	6852067	24-Jul-16	14.7	WHI16000177	0.0005	0.5
AA068212	soil	2016	UTM83-9	530609	6852069	24-Jul-16	15.8	WHI16000177	0.0009	0.9
AA068213	soil	2016	UTM83-9	530551	6852062	24-Jul-16	16.8	WHI16000177	0.0034	3.4
AA068214	soil	2016	UTM83-9	530501	6852069	24-Jul-16	13.9	WHI16000177	0.0005	0.5
AA068215	soil	2016	UTM83-9	530461	6852067	24-Jul-16	17.1	WHI16000177	0.0019	1.9
AA068216	soil	2016	UTM83-9	530414	6852060	24-Jul-16	13	WHI16000177	0.0009	0.9
AA068217	soil	2016	UTM83-9	530353	6852056	24-Jul-16	12.4	WHI16000177	0.0009	0.9
AA068218	soil	2016	UTM83-9	530299	6852061	24-Jul-16	9.7	WHI16000177	0.001	1
AA068219	soil	2016	UTM83-9	530262	6852064	24-Jul-16	9.5	WHI16000177	0.0006	0.6
AA068220	soil	2016	UTM83-9	530205	6852062	24-Jul-16	14.3	WHI16000177	0.0005	0.5
AA068221	soil	2016	UTM83-9	530155	6852062	24-Jul-16	11.3	WHI16000177	0.0001	0.1
AA068222	soil	2016	UTM83-9	530108	6852064	24-Jul-16	14.1	WHI16000177	0.003	3
AA068223	soil	2016	UTM83-9	530058	6852057	24-Jul-16	26	WHI16000177	0.0033	3.3
AA068224	soil	2016	UTM83-9	530008	6852055	24-Jul-16	202.8	WHI16000177	0.0084	8.4
AA068225	soil	2016	UTM83-9	529958	6852058	24-Jul-16	148.8	WHI16000177	0.0022	2.2
AA068226	soil	2016	UTM83-9	529894	6852056	24-Jul-16	3.3	WHI16000177	0.0001	0.1
AA068227	soil	2016	UTM83-9	529894	6852056	24-Jul-16	5	WHI16000177	0.0002	0.2
AA068228	soil	2016	UTM83-9	529850	6852055	24-Jul-16	15.4	WHI16000177	0.0009	0.9
AA068229	soil	2016	UTM83-9	529810	6852069	24-Jul-16	25.1	WHI16000177	0.0048	4.8
AA068230	soil	2016	UTM83-9	529756	6852061	24-Jul-16	3.2	WHI16000177	0.001	1
AA068231	soil	2016	UTM83-9	529704	6852053	24-Jul-16	33	WHI16000177	0.011	11
AA068232	soil	2016	UTM83-9	529654	6852055	24-Jul-16	131.2	WHI16000177	0.0234	23.4
AA068233	soil	2016	UTM83-9	529599	6852056	24-Jul-16	54.2	WHI16000177	0.0141	14.1
AA068234	soil	2016	UTM83-9	529557	6852057	24-Jul-16	111.4	WHI16000177	0.0221	22.1
AA068235	soil	2016	UTM83-9	529506	6852053	24-Jul-16	30.5	WHI16000177	0.0075	7.5
AA068236	soil	2016	UTM83-9	529454	6852053	24-Jul-16	46.5	WHI16000177	0.0087	8.7
AA068237	soil	2016	UTM83-9	527697	6852050	25-Jul-16	11.5	WHI16000177	0.0007	0.7
AA068238	soil	2016	UTM83-9	527752	6852057	25-Jul-16	16.4	WHI16000177	0.0001	0.1
AA068239	soil	2016	UTM83-9	527799	6852058	25-Jul-16	11.8	WHI16000177	0.0003	0.3
AA068240	soil	2016	UTM83-9	527851	6852057	25-Jul-16	21	WHI16000177	0.0023	2.3
AA068241	soil	2016	UTM83-9	527901	6852057	25-Jul-16	1.5	WHI16000177	0.0015	1.5
AA068242	soil	2016	UTM83-9	527955	6852058	25-Jul-16	11.8	WHI16000177	0.0185	18.5
AA068243	soil	2016	UTM83-9	528001	6852051	25-Jul-16	18.1	WHI16000177	0.0021	2.1

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA068244	soil	2016	UTM83-9	528053	6852052	25-Jul-16	20.4	WHI16000177	0.003	3
AA068245	soil	2016	UTM83-9	528101	6852059	25-Jul-16	21	WHI16000177	0.0022	2.2
AA068246	soil	2016	UTM83-9	528149	6852057	25-Jul-16	23.5	WHI16000177	0.0031	3.1
AA068247	soil	2016	UTM83-9	528198	6852060	25-Jul-16	44.4	WHI16000177	0.0089	8.9
AA068248	soil	2016	UTM83-9	528254	6852058	25-Jul-16	9	WHI16000177	0.0007	0.7
AA068249	soil	2016	UTM83-9	528307	6852056	25-Jul-16	22.9	WHI16000177	0.0095	9.5
AA068250	soil	2016	UTM83-9	528344	6852063	25-Jul-16	22.3	WHI16000177	0.008	8
AA068251	soil	2016	UTM83-9	528202	6851762	23-Jul-16	34.6	WHI16000177	0.0118	11.8
AA068252	soil	2016	UTM83-9	528154	6851756	23-Jul-16	32.7	WHI16000177	0.0084	8.4
AA068253	soil	2016	UTM83-9	528103	6851758	23-Jul-16	44.8	WHI16000177	0.0131	13.1
AA068254	soil	2016	UTM83-9	528054	6851756	23-Jul-16	14.6	WHI16000177	0.0023	2.3
AA068255	soil	2016	UTM83-9	528001	6851756	23-Jul-16	12.8	WHI16000177	0.001	1
AA068256	soil	2016	UTM83-9	527950	6851762	23-Jul-16	72.6	WHI16000177	0.0271	27.1
AA068257	soil	2016	UTM83-9	527902	6851767	23-Jul-16	25	WHI16000177	0.0011	1.1
AA068258	soil	2016	UTM83-9	527856	6851751	23-Jul-16	22.9	WHI16000177	0.0043	4.3
AA068259	soil	2016	UTM83-9	527795	6851760	23-Jul-16	22.4	WHI16000177	0.0079	7.9
AA068260	soil	2016	UTM83-9	527751	6851762	23-Jul-16	25.1	WHI16000177	0.0058	5.8
AA068261	soil	2016	UTM83-9	527712	6851748	23-Jul-16	22.9	WHI16000177	0.0034	3.4
AA068262	soil	2016	UTM83-9	527660	6851752	23-Jul-16	23.2	WHI16000177	0.0048	4.8
AA068263	soil	2016	UTM83-9	527759	6851558	23-Jul-16	21.2	WHI16000177	0.0025	2.5
AA068264	soil	2016	UTM83-9	527862	6851552	23-Jul-16	17.6	WHI16000177	0.0031	3.1
AA068265	soil	2016	UTM83-9	530659	6852162	24-Jul-16	10.9	WHI16000177	0.0036	3.6
AA068266	soil	2016	UTM83-9	530602	6852163	24-Jul-16	15.4	WHI16000177	0.0041	4.1
AA068267	soil	2016	UTM83-9	530570	6852160	24-Jul-16	14	WHI16000177	0.0041	4.1
AA068268	soil	2016	UTM83-9	530507	6852158	24-Jul-16	19.3	WHI16000177	0.0062	6.2
AA068269	soil	2016	UTM83-9	530463	6852172	24-Jul-16	16.5	WHI16000177	0.0024	2.4
AA068270	soil	2016	UTM83-9	530406	6852165	24-Jul-16	17.4	WHI16000177	0.0054	5.4
AA068271	soil	2016	UTM83-9	530358	6852165	24-Jul-16	15.5	WHI16000177	0.0036	3.6
AA068272	soil	2016	UTM83-9	530302	6852158	24-Jul-16	16	WHI16000177	0.004	4
AA068273	soil	2016	UTM83-9	530253	6852162	24-Jul-16	12.5	WHI16000177	0.0044	4.4
AA068274	soil	2016	UTM83-9	530199	6852162	24-Jul-16	12.7	WHI16000177	0.0025	2.5
AA068275	soil	2016	UTM83-9	530150	6852155	24-Jul-16	11.6	WHI16000177	0.0033	3.3
AA068276	soil	2016	UTM83-9	530100	6852160	24-Jul-16	21.8	WHI16000177	0.0085	8.5
AA068277	soil	2016	UTM83-9	530052	6852166	24-Jul-16	19.6	WHI16000177	0.0048	4.8
AA068278	soil	2016	UTM83-9	529998	6852158	24-Jul-16	12.1	WHI16000177	0.0035	3.5
AA068279	soil	2016	UTM83-9	529997	6852163	24-Jul-16	15.8	WHI16000177	0.0028	2.8
AA068280	soil	2016	UTM83-9	529950	6852162	24-Jul-16	176.8	WHI16000177	0.005	5
AA068281	soil	2016	UTM83-9	529903	6852157	24-Jul-16	39.1	WHI16000177	0.0035	3.5
AA068282	soil	2016	UTM83-9	529859	6852156	24-Jul-16	28.9	WHI16000177	0.0055	5.5
AA068283	soil	2016	UTM83-9	529808	6852156	24-Jul-16	240.7	WHI16000177	0.0082	8.2
AA068284	soil	2016	UTM83-9	529754	6852153	24-Jul-16	157.4	WHI16000177	0.0144	14.4
AA068285	soil	2016	UTM83-9	529702	6852157	24-Jul-16	42.9	WHI16000177	0.0047	4.7
AA068286	soil	2016	UTM83-9	529656	6852156	24-Jul-16	78.4	WHI16000177	0.008	8
AA068287	soil	2016	UTM83-9	529604	6852163	24-Jul-16	9.3	WHI16000177	0.0001	0.1
AA068288	soil	2016	UTM83-9	529545	6852160	24-Jul-16	177.1	WHI16000177	0.0206	20.6
AA068289	soil	2016	UTM83-9	529512	6852162	24-Jul-16	26.9	WHI16000177	0.0028	2.8
AA068290	soil	2016	UTM83-9	527650	6852173	25-Jul-16	22.8	WHI16000177	0.0003	0.3
AA068291	soil	2016	UTM83-9	527702	6852157	25-Jul-16	39.6	WHI16000177	0.0011	1.1
AA068292	soil	2016	UTM83-9	527754	6852160	25-Jul-16	22.9	WHI16000177	0.0004	0.4
AA068293	soil	2016	UTM83-9	527797	6852154	25-Jul-16	17.5	WHI16000233	0.0006	0.6
AA068294	soil	2016	UTM83-9	527854	6852162	25-Jul-16	5	WHI16000233	0.0003	0.3
AA068295	soil	2016	UTM83-9	527909	6852157	25-Jul-16	1.8	WHI16000233	0.0001	0.1
AA068296	soil	2016	UTM83-9	527955	6852149	25-Jul-16	22.5	WHI16000233	0.0098	9.8
AA068297	soil	2016	UTM83-9	528001	6852157	25-Jul-16	3.7	WHI16000233	0.0016	1.6
AA068298	soil	2016	UTM83-9	528053	6852149	25-Jul-16	37.2	WHI16000233	0.02	20
AA068299	soil	2016	UTM83-9	528108	6852159	25-Jul-16	0.8	WHI16000233	0.0008	0.8
AA068300	soil	2016	UTM83-9	528157	6852155	25-Jul-16	1.8	WHI16000233	0.0003	0.3
AA068301	soil	2016	UTM83-9	528211	6851459	23-Jul-16	18.8	WHI16000177	0.0011	1.1
AA068302	soil	2016	UTM83-9	528154	6851457	23-Jul-16	16.3	WHI16000177	0.0013	1.3
AA068303	soil	2016	UTM83-9	528107	6851451	23-Jul-16	28.6	WHI16000177	0.006	6
AA068304	soil	2016	UTM83-9	528054	6851455	23-Jul-16	49.4	WHI16000177	0.0041	4.1

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA068305	soil	2016	UTM83-9	528000	6851459	23-Jul-16	17.6	WHI16000177	0.0005	0.5
AA068306	soil	2016	UTM83-9	527960	6851460	23-Jul-16	40.3	WHI16000177	0.0036	3.6
AA068307	soil	2016	UTM83-9	527902	6851457	23-Jul-16	28.5	WHI16000177	0.0017	1.7
AA068308	soil	2016	UTM83-9	527853	6851451	23-Jul-16	11	WHI16000177	0.0009	0.9
AA068309	soil	2016	UTM83-9	527812	6851462	23-Jul-16	75.4	WHI16000177	0.0066	6.6
AA068310	soil	2016	UTM83-9	527752	6851466	23-Jul-16	31.2	WHI16000177	0.0047	4.7
AA068311	soil	2016	UTM83-9	530649	6851861	24-Jul-16	15	WHI16000177	0.0002	0.2
AA068312	soil	2016	UTM83-9	530606	6851857	24-Jul-16	12.8	WHI16000177	0.0014	1.4
AA068313	soil	2016	UTM83-9	530559	6851857	24-Jul-16	12.1	WHI16000177	0.0019	1.9
AA068314	soil	2016	UTM83-9	530508	6851859	24-Jul-16	19.2	WHI16000177	0.003	3
AA068315	soil	2016	UTM83-9	530457	6851867	24-Jul-16	65.3	WHI16000177	0.0185	18.5
AA068316	soil	2016	UTM83-9	530408	6851860	24-Jul-16	32.5	WHI16000177	0.0052	5.2
AA068317	soil	2016	UTM83-9	530356	6851862	24-Jul-16	10.2	WHI16000177	0.0002	0.2
AA068318	soil	2016	UTM83-9	530307	6851858	24-Jul-16	28.6	WHI16000177	0.0017	1.7
AA068319	soil	2016	UTM83-9	530256	6851854	24-Jul-16	44.9	WHI16000177	0.0013	1.3
AA068320	soil	2016	UTM83-9	530208	6851859	24-Jul-16	13.3	WHI16000177	0.0012	1.2
AA068321	soil	2016	UTM83-9	530155	6851859	24-Jul-16	18.5	WHI16000178	0.0032	3.2
AA068322	soil	2016	UTM83-9	530110	6851855	24-Jul-16	54.4	WHI16000178	0.0105	10.5
AA068323	soil	2016	UTM83-9	530055	6851859	24-Jul-16	20.3	WHI16000178	0.0008	0.8
AA068324	soil	2016	UTM83-9	530001	6851859	24-Jul-16	13.3	WHI16000178	0.0001	0.1
AA068325	soil	2016	UTM83-9	529956	6851861	24-Jul-16	25.8	WHI16000178	0.0001	0.1
AA068326	soil	2016	UTM83-9	529909	6851865	24-Jul-16	17.6	WHI16000178	0.0008	0.8
AA068327	soil	2016	UTM83-9	529856	6851859	24-Jul-16	14.3	WHI16000178	0.0014	1.4
AA068328	soil	2016	UTM83-9	529853	6851859	24-Jul-16	14	WHI16000178	0.0896	89.6
AA068329	soil	2016	UTM83-9	529803	6851857	24-Jul-16	36.6	WHI16000178	0.001	1
AA068330	soil	2016	UTM83-9	529753	6851857	24-Jul-16	25.9	WHI16000178	0.0001	0.1
AA068331	soil	2016	UTM83-9	529702	6851858	24-Jul-16	19.1	WHI16000178	0.0001	0.1
AA068332	soil	2016	UTM83-9	529654	6851863	24-Jul-16	39.5	WHI16000178	0.007	7
AA068333	soil	2016	UTM83-9	529605	6851859	24-Jul-16	13.8	WHI16000178	0.0003	0.3
AA068334	soil	2016	UTM83-9	529556	6851858	24-Jul-16	28.8	WHI16000178	0.0016	1.6
AA068335	soil	2016	UTM83-9	529506	6851856	24-Jul-16	11.3	WHI16000178	0.0001	0.1
AA068336	soil	2016	UTM83-9	529459	6851859	24-Jul-16	18.8	WHI16000178	0.0037	3.7
AA068337	soil	2016	UTM83-9	529408	6851856	24-Jul-16	9.2	WHI16000178	0.0005	0.5
AA068338	soil	2016	UTM83-9	527650	6851862	25-Jul-16	10.8	WHI16000178	0.0001	0.1
AA068339	soil	2016	UTM83-9	527702	6851865	25-Jul-16	25.3	WHI16000178	0.0013	1.3
AA068340	soil	2016	UTM83-9	527762	6851844	25-Jul-16	1385.9	WHI16000178	0.1484	148.4
AA068341	soil	2016	UTM83-9	527852	6851861	25-Jul-16	59.2	WHI16000178	0.0038	3.8
AA068342	soil	2016	UTM83-9	527900	6851864	25-Jul-16	14	WHI16000178	0.0001	0.1
AA068343	soil	2016	UTM83-9	527955	6851856	25-Jul-16	14.1	WHI16000178	0.0017	1.7
AA068344	soil	2016	UTM83-9	528009	6851852	25-Jul-16	7.5	WHI16000178	0.0084	8.4
AA068345	soil	2016	UTM83-9	528050	6851858	25-Jul-16	63.6	WHI16000178	0.0311	31.1
AA068346	soil	2016	UTM83-9	528103	6851859	25-Jul-16	16	WHI16000178	0.002	2
AA068347	soil	2016	UTM83-9	528151	6851859	25-Jul-16	39.7	WHI16000178	0.0103	10.3
AA068348	soil	2016	UTM83-9	528203	6851857	25-Jul-16	37.2	WHI16000178	0.0105	10.5
AA068349	soil	2016	UTM83-9	528250	6851861	25-Jul-16	51.3	WHI16000178	0.0319	31.9
AA068350	soil	2016	UTM83-9	528309	6851863	25-Jul-16	20.3	WHI16000178	0.005	5
AA068351	soil	2016	UTM83-9	528155	6851563	25-Jul-16	25.7	WHI16000178	0.0091	9.1
AA068352	soil	2016	UTM83-9	528111	6851568	25-Jul-16	31.5	WHI16000178	0.0081	8.1
AA068353	soil	2016	UTM83-9	528058	6851559	25-Jul-16	32.9	WHI16000178	0.0056	5.6
AA068354	soil	2016	UTM83-9	528013	6851561	25-Jul-16	26.5	WHI16000178	0.0016	1.6
AA068355	soil	2016	UTM83-9	527958	6851551	25-Jul-16	22.8	WHI16000178	0.0006	0.6
AA068356	soil	2016	UTM83-9	527908	6851566	25-Jul-16	20.1	WHI16000178	0.0001	0.1
AA068357	soil	2016	UTM83-9	530650	6851964	25-Jul-16	11.7	WHI16000178	0.003	3
AA068358	soil	2016	UTM83-9	530606	6851959	25-Jul-16	15.6	WHI16000178	0.0033	3.3
AA068359	soil	2016	UTM83-9	530557	6851959	25-Jul-16	17.9	WHI16000178	0.0017	1.7
AA068360	soil	2016	UTM83-9	530506	6851961	25-Jul-16	25.3	WHI16000178	0.0036	3.6
AA068361	soil	2016	UTM83-9	530459	6851961	25-Jul-16	26.7	WHI16000178	0.0037	3.7
AA068362	soil	2016	UTM83-9	530409	6851960	25-Jul-16	27.4	WHI16000178	0.0072	7.2
AA068363	soil	2016	UTM83-9	530346	6851964	25-Jul-16	13.9	WHI16000178	0.0019	1.9
AA068364	soil	2016	UTM83-9	530306	6851956	25-Jul-16	12.7	WHI16000178	0.0019	1.9
AA068365	soil	2016	UTM83-9	530254	6851962	25-Jul-16	15	WHI16000178	0.0022	2.2

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA068366	soil	2016	UTM83-9	530201	6851955	25-Jul-16	15.7	WHI16000178	0.0019	1.9
AA068367	soil	2016	UTM83-9	530154	6851960	25-Jul-16	20.7	WHI16000178	0.0075	7.5
AA068368	soil	2016	UTM83-9	530101	6851960	25-Jul-16	20.1	WHI16000178	0.0043	4.3
AA068369	soil	2016	UTM83-9	530050	6851961	25-Jul-16	37.1	WHI16000178	0.0073	7.3
AA068370	soil	2016	UTM83-9	530002	6851959	25-Jul-16	9.5	WHI16000178	0.0015	1.5
AA068371	soil	2016	UTM83-9	529950	6851958	25-Jul-16	12.8	WHI16000178	0.0007	0.7
AA068372	soil	2016	UTM83-9	529902	6851959	25-Jul-16	43.4	WHI16000178	0.0053	5.3
AA068373	soil	2016	UTM83-9	529852	6851958	25-Jul-16	37.5	WHI16000178	0.0029	2.9
AA068374	soil	2016	UTM83-9	529799	6851962	25-Jul-16	36.4	WHI16000178	0.0032	3.2
AA068375	soil	2016	UTM83-9	529753	6851956	25-Jul-16	26.1	WHI16000178	0.0036	3.6
AA068376	soil	2016	UTM83-9	529707	6851956	25-Jul-16	25.9	WHI16000178	0.0031	3.1
AA068377	soil	2016	UTM83-9	529653	6851965	25-Jul-16	69	WHI16000178	0.009	9
AA068378	soil	2016	UTM83-9	529644	6851969	25-Jul-16	71.1	WHI16000178	0.0179	17.9
AA068379	soil	2016	UTM83-9	529604	6851962	25-Jul-16	35.7	WHI16000178	0.005	5
AA068380	soil	2016	UTM83-9	529555	6851959	25-Jul-16	47.5	WHI16000178	0.0043	4.3
AA068381	soil	2016	UTM83-9	529502	6851958	25-Jul-16	52.9	WHI16000178	0.0048	4.8
AA068382	soil	2016	UTM83-9	529454	6851971	25-Jul-16	42.5	WHI16000178	0.0085	8.5
AA068383	soil	2016	UTM83-9	527703	6851964	25-Jul-16	23	WHI16000178	0.002	2
AA068384	soil	2016	UTM83-9	527749	6851956	25-Jul-16	18.7	WHI16000178	0.0016	1.6
AA068385	soil	2016	UTM83-9	527800	6851959	25-Jul-16	24.5	WHI16000178	0.0021	2.1
AA068386	soil	2016	UTM83-9	527850	6851962	25-Jul-16	28.1	WHI16000178	0.004	4
AA068387	soil	2016	UTM83-9	527899	6851953	25-Jul-16	14.3	WHI16000178	0.0051	5.1
AA068388	soil	2016	UTM83-9	527953	6851967	25-Jul-16	10.7	WHI16000178	0.0015	1.5
AA068389	soil	2016	UTM83-9	528003	6851960	25-Jul-16	11.5	WHI16000178	0.0028	2.8
AA068390	soil	2016	UTM83-9	528055	6851957	25-Jul-16	16	WHI16000178	0.0021	2.1
AA068391	soil	2016	UTM83-9	528097	6851961	25-Jul-16	10.5	WHI16000178	0.0021	2.1
AA068392	soil	2016	UTM83-9	528149	6851953	25-Jul-16	7.5	WHI16000178	0.0014	1.4
AA068393	soil	2016	UTM83-9	528198	6851961	25-Jul-16	18.4	WHI16000178	0.0041	4.1
AA068394	soil	2016	UTM83-9	528307	6851959	25-Jul-16	34.4	WHI16000178	0.0075	7.5
AA068395	soil	2016	UTM83-9	528358	6851963	25-Jul-16	14.6	WHI16000178	0.0018	1.8
AA068396	soil	2016	UTM83-9	528407	6851954	25-Jul-16	17.5	WHI16000178	0.0026	2.6
AA068397	soil	2016	UTM83-9	528446	6851961	25-Jul-16	25.3	WHI16000178	0.0072	7.2
AA068398	soil	2016	UTM83-9	528505	6851957	25-Jul-16	27.9	WHI16000178	0.0099	9.9
AA068399	soil	2016	UTM83-9	528550	6851959	25-Jul-16	37.2	WHI16000178	0.012	12
AA068400	soil	2016	UTM83-9	528609	6851965	25-Jul-16	21	WHI16000178	0.0049	4.9
AA068401	soil	2016	UTM83-9	528410	6852065	25-Jul-16	29.1	WHI16000178	0.011	11
AA068402	soil	2016	UTM83-9	528450	6852061	25-Jul-16	27.7	WHI16000178	0.0063	6.3
AA068403	soil	2016	UTM83-9	528503	6852063	25-Jul-16	24.7	WHI16000178	0.0077	7.7
AA068404	soil	2016	UTM83-9	528549	6852070	25-Jul-16	15.4	WHI16000178	0.0031	3.1
AA068405	soil	2016	UTM83-9	528597	6852065	25-Jul-16	12.3	WHI16000178	0.0023	2.3
AA068406	soil	2016	UTM83-9	528649	6852064	25-Jul-16	34.1	WHI16000178	0.0056	5.6
AA068407	soil	2016	UTM83-9	528702	6852065	25-Jul-16	17.3	WHI16000178	0.0031	3.1
AA068408	soil	2016	UTM83-9	528749	6852059	25-Jul-16	24.2	WHI16000178	0.0079	7.9
AA068409	soil	2016	UTM83-9	528805	6852058	25-Jul-16	24.1	WHI16000178	0.0265	26.5
AA068410	soil	2016	UTM83-9	528856	6852055	25-Jul-16	18.3	WHI16000178	0.0019	1.9
AA068411	soil	2016	UTM83-9	528903	6852058	25-Jul-16	16.8	WHI16000178	0.0028	2.8
AA068412	soil	2016	UTM83-9	528944	6852056	25-Jul-16	36	WHI16000178	0.0082	8.2
AA068413	soil	2016	UTM83-9	528998	6852050	25-Jul-16	16.9	WHI16000178	0.0017	1.7
AA068414	soil	2016	UTM83-9	529052	6852054	25-Jul-16	18.3	WHI16000178	0.0042	4.2
AA068415	soil	2016	UTM83-9	529094	6852059	25-Jul-16	23.8	WHI16000178	0.0066	6.6
AA068416	soil	2016	UTM83-9	529154	6852052	25-Jul-16	28.6	WHI16000178	0.0095	9.5
AA068417	soil	2016	UTM83-9	529250	6852054	25-Jul-16	37.1	WHI16000178	0.0159	15.9
AA068418	soil	2016	UTM83-9	529306	6852052	25-Jul-16	24	WHI16000178	0.0066	6.6
AA068419	soil	2016	UTM83-9	529343	6852076	25-Jul-16	20.5	WHI16000178	0.0064	6.4
AA068420	soil	2016	UTM83-9	529400	6852053	25-Jul-16	37.5	WHI16000178	0.0152	15.2
AA068421	soil	2016	UTM83-9	530246	6852468	26-Jul-16	12.9	WHI16000178	0.0017	1.7
AA068422	soil	2016	UTM83-9	530209	6852456	26-Jul-16	13.4	WHI16000178	0.0027	2.7
AA068423	soil	2016	UTM83-9	530145	6852475	26-Jul-16	13.3	WHI16000178	0.0022	2.2
AA068424	soil	2016	UTM83-9	530099	6852461	26-Jul-16	10.6	WHI16000178	0.0013	1.3
AA068425	soil	2016	UTM83-9	530099	6852461	26-Jul-16	13.2	WHI16000178	0.0015	1.5
AA068426	soil	2016	UTM83-9	530048	6852469	26-Jul-16	22	WHI16000178	0.0023	2.3

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA068427	soil	2016	UTM83-9	530008	6852463	26-Jul-16	5.9	WHI16000178	0.0011	1.1
AA068428	soil	2016	UTM83-9	529956	6852456	26-Jul-16	30	WHI16000178	0.003	3
AA068429	soil	2016	UTM83-9	529905	6852466	26-Jul-16	31.6	WHI16000178	0.0038	3.8
AA068430	soil	2016	UTM83-9	529850	6852457	26-Jul-16	30.8	WHI16000178	0.0048	4.8
AA068431	soil	2016	UTM83-9	529800	6852453	26-Jul-16	34.7	WHI16000178	0.0054	5.4
AA068432	soil	2016	UTM83-9	529748	6852459	26-Jul-16	89	WHI16000178	0.0259	25.9
AA068433	soil	2016	UTM83-9	529709	6852462	26-Jul-16	89.2	WHI16000178	0.0226	22.6
AA068434	soil	2016	UTM83-9	529659	6852465	26-Jul-16	147.6	WHI16000178	0.0317	31.7
AA068435	soil	2016	UTM83-9	529604	6852461	26-Jul-16	37.9	WHI16000178	0.0027	2.7
AA068436	soil	2016	UTM83-9	529543	6852453	26-Jul-16	227.2	WHI16000178	0.0264	26.4
AA068437	soil	2016	UTM83-9	529507	6852455	26-Jul-16	371.2	WHI16000178	0.1193	119.3
AA068438	soil	2016	UTM83-9	529403	6852462	26-Jul-16	75.6	WHI16000178	0.0184	18.4
AA068439	soil	2016	UTM83-9	529351	6852464	26-Jul-16	31.8	WHI16000178	0.0055	5.5
AA068440	soil	2016	UTM83-9	529315	6852467	26-Jul-16	22.2	WHI16000178	0.0046	4.6
AA068441	soil	2016	UTM83-9	529261	6852455	26-Jul-16	20.7	WHI16000178	0.0045	4.5
AA068442	soil	2016	UTM83-9	529206	6852464	26-Jul-16	33.9	WHI16000178	0.0154	15.4
AA068443	soil	2016	UTM83-9	529156	6852464	26-Jul-16	25.2	WHI16000178	0.009	9
AA068444	soil	2016	UTM83-9	529107	6852466	26-Jul-16	248.8	WHI16000178	0.0869	86.9
AA068445	soil	2016	UTM83-9	529062	6852464	26-Jul-16	79.5	WHI16000178	0.0199	19.9
AA068446	soil	2016	UTM83-9	529005	6852453	27-Jul-16	95.4	WHI16000178	0.0775	77.5
AA068447	soil	2016	UTM83-9	528960	6852456	27-Jul-16	32	WHI16000178	0.0119	11.9
AA068448	soil	2016	UTM83-9	528897	6852453	27-Jul-16	22.6	WHI16000178	0.0071	7.1
AA068449	soil	2016	UTM83-9	528857	6852462	27-Jul-16	18.2	WHI16000178	0.0082	8.2
AA068450	soil	2016	UTM83-9	528805	6852457	27-Jul-16	2.9	WHI16000178	0.001	1
AA068451	soil	2016	UTM83-9	528205	6852161	25-Jul-16	93.6	WHI16000181	0.0295	29.5
AA068452	soil	2016	UTM83-9	528250	6852158	25-Jul-16	102.3	WHI16000181	0.0154	15.4
AA068453	soil	2016	UTM83-9	528311	6852156	25-Jul-16	22.7	WHI16000181	0.0003	0.3
AA068454	soil	2016	UTM83-9	528352	6852153	25-Jul-16	8.8	WHI16000181	0.0008	0.8
AA068455	soil	2016	UTM83-9	528408	6852156	25-Jul-16	17	WHI16000181	0.006	6
AA068456	soil	2016	UTM83-9	528453	6852160	25-Jul-16	15.6	WHI16000181	0.0048	4.8
AA068457	soil	2016	UTM83-9	528503	6852163	25-Jul-16	16.4	WHI16000181	0.0043	4.3
AA068458	soil	2016	UTM83-9	528555	6852159	25-Jul-16	15.3	WHI16000181	0.0038	3.8
AA068459	soil	2016	UTM83-9	528606	6852158	25-Jul-16	16.6	WHI16000181	0.0013	1.3
AA068460	soil	2016	UTM83-9	528657	6852161	25-Jul-16	19.3	WHI16000181	0.0008	0.8
AA068461	soil	2016	UTM83-9	528700	6852160	25-Jul-16	17.7	WHI16000181	0.001	1
AA068462	soil	2016	UTM83-9	528755	6852159	25-Jul-16	21	WHI16000181	0.0048	4.8
AA068463	soil	2016	UTM83-9	528806	6852160	25-Jul-16	21.8	WHI16000181	0.0036	3.6
AA068464	soil	2016	UTM83-9	528852	6852159	25-Jul-16	16.9	WHI16000181	0.0022	2.2
AA068465	soil	2016	UTM83-9	528897	6852165	25-Jul-16	17.1	WHI16000181	0.0021	2.1
AA068466	soil	2016	UTM83-9	528954	6852159	25-Jul-16	22.8	WHI16000181	0.0023	2.3
AA068467	soil	2016	UTM83-9	529005	6852162	25-Jul-16	14.6	WHI16000181	0.0005	0.5
AA068468	soil	2016	UTM83-9	529047	6852161	25-Jul-16	15.2	WHI16000181	0.0031	3.1
AA068469	soil	2016	UTM83-9	529047	6852161	25-Jul-16	15.8	WHI16000181	0.0021	2.1
AA068470	soil	2016	UTM83-9	529103	6852163	25-Jul-16	29.1	WHI16000181	0.0027	2.7
AA068471	soil	2016	UTM83-9	529152	6852159	25-Jul-16	67.4	WHI16000179	0.0133	13.3
AA068472	soil	2016	UTM83-9	529198	6852165	25-Jul-16	121.7	WHI16000179	0.0582	58.2
AA068473	soil	2016	UTM83-9	529253	6852160	25-Jul-16	118.4	WHI16000179	0.0351	35.1
AA068474	soil	2016	UTM83-9	529308	6852156	25-Jul-16	16.8	WHI16000179	0.0032	3.2
AA068475	soil	2016	UTM83-9	529351	6852150	25-Jul-16	20.7	WHI16000179	0.0031	3.1
AA068476	soil	2016	UTM83-9	529412	6852154	25-Jul-16	15.8	WHI16000179	0.0014	1.4
AA068477	soil	2016	UTM83-9	529450	6852159	25-Jul-16	37.2	WHI16000179	0.0064	6.4
AA068478	soil	2016	UTM83-9	530642	6852561	26-Jul-16	4.6	WHI16000179	0.0008	0.8
AA068479	soil	2016	UTM83-9	530607	6852565	26-Jul-16	4.4	WHI16000179	0.0002	0.2
AA068480	soil	2016	UTM83-9	530560	6852561	26-Jul-16	7.1	WHI16000179	0.0004	0.4
AA068481	soil	2016	UTM83-9	530511	6852554	26-Jul-16	17.3	WHI16000181	0.0012	1.2
AA068482	soil	2016	UTM83-9	530458	6852561	26-Jul-16	10.5	WHI16000181	0.0015	1.5
AA068483	soil	2016	UTM83-9	530408	6852555	26-Jul-16	10.4	WHI16000181	0.0005	0.5
AA068484	soil	2016	UTM83-9	530358	6852565	26-Jul-16	11.6	WHI16000181	0.0016	1.6
AA068485	soil	2016	UTM83-9	530304	6852559	26-Jul-16	16.3	WHI16000181	0.0021	2.1
AA068486	soil	2016	UTM83-9	530264	6852560	26-Jul-16	15.5	WHI16000181	0.0017	1.7
AA068487	soil	2016	UTM83-9	530212	6852566	26-Jul-16	10.8	WHI16000181	0.0012	1.2

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA068488	soil	2016	UTM83-9	530161	6852570	26-Jul-16	12.9	WHI16000181	0.0007	0.7
AA068489	soil	2016	UTM83-9	530103	6852565	26-Jul-16	14.3	WHI16000181	0.0041	4.1
AA068490	soil	2016	UTM83-9	530050	6852565	26-Jul-16	11.1	WHI16000181	0.0036	3.6
AA068491	soil	2016	UTM83-9	529998	6852563	26-Jul-16	10.5	WHI16000181	0.0023	2.3
AA068492	soil	2016	UTM83-9	529941	6852554	26-Jul-16	41.4	WHI16000181	0.0024	2.4
AA068493	soil	2016	UTM83-9	529908	6852555	26-Jul-16	56.6	WHI16000181	0.0273	27.3
AA068494	soil	2016	UTM83-9	529844	6852549	26-Jul-16	18.8	WHI16000181	0.0014	1.4
AA068495	soil	2016	UTM83-9	529800	6852558	26-Jul-16	37.1	WHI16000181	0.0068	6.8
AA068496	soil	2016	UTM83-9	529745	6852568	26-Jul-16	58.9	WHI16000181	0.0043	4.3
AA068497	soil	2016	UTM83-9	529699	6852560	26-Jul-16	41.9	WHI16000181	0.0034	3.4
AA068498	soil	2016	UTM83-9	529656	6852560	26-Jul-16	16.4	WHI16000181	0.0035	3.5
AA068499	soil	2016	UTM83-9	529603	6852568	26-Jul-16	17.9	WHI16000181	0.0019	1.9
AA068500	soil	2016	UTM83-9	529557	6852556	26-Jul-16	59.4	WHI16000181	0.0079	7.9
AA068501	soil	2016	UTM83-9	528659	6851958	26-Jul-16	18.3	WHI16000178	0.0052	5.2
AA068502	soil	2016	UTM83-9	528705	6851957	26-Jul-16	19.5	WHI16000178	0.0054	5.4
AA068503	soil	2016	UTM83-9	528746	6851948	26-Jul-16	20.5	WHI16000178	0.009	9
AA068504	soil	2016	UTM83-9	528808	6851960	26-Jul-16	39.3	WHI16000178	0.0332	33.2
AA068505	soil	2016	UTM83-9	528851	6851962	26-Jul-16	24.9	WHI16000178	0.021	21
AA068506	soil	2016	UTM83-9	528919	6851966	26-Jul-16	15.3	WHI16000178	0.0049	4.9
AA068507	soil	2016	UTM83-9	528960	6851963	26-Jul-16	14.4	WHI16000178	0.0047	4.7
AA068508	soil	2016	UTM83-9	529012	6851961	26-Jul-16	27.8	WHI16000178	0.0056	5.6
AA068509	soil	2016	UTM83-9	529045	6851958	26-Jul-16	19.7	WHI16000178	0.0037	3.7
AA068510	soil	2016	UTM83-9	529097	6851950	26-Jul-16	16.6	WHI16000178	0.0039	3.9
AA068511	soil	2016	UTM83-9	529154	6851957	26-Jul-16	16.8	WHI16000178	0.0031	3.1
AA068512	soil	2016	UTM83-9	529201	6851957	26-Jul-16	18.4	WHI16000178	0.0031	3.1
AA068513	soil	2016	UTM83-9	529258	6851956	26-Jul-16	20.1	WHI16000178	0.0055	5.5
AA068514	soil	2016	UTM83-9	529294	6851959	26-Jul-16	19.4	WHI16000178	0.0031	3.1
AA068515	soil	2016	UTM83-9	529353	6851959	26-Jul-16	34.2	WHI16000178	0.0202	20.2
AA068516	soil	2016	UTM83-9	529399	6851960	26-Jul-16	15	WHI16000178	0.0043	4.3
AA068517	soil	2016	UTM83-9	529392	6851959	26-Jul-16	15.6	WHI16000178	0.0096	9.6
AA068518	soil	2016	UTM83-9	530400	6852370	26-Jul-16	14.6	WHI16000178	0.0116	11.6
AA068519	soil	2016	UTM83-9	530363	6852360	26-Jul-16	21.9	WHI16000178	0.0122	12.2
AA068520	soil	2016	UTM83-9	530304	6852360	26-Jul-16	14.3	WHI16000178	0.0035	3.5
AA068521	soil	2016	UTM83-9	530257	6852358	26-Jul-16	13.9	WHI16000178	0.0035	3.5
AA068522	soil	2016	UTM83-9	530209	6852358	26-Jul-16	13.4	WHI16000178	0.0018	1.8
AA068523	soil	2016	UTM83-9	530158	6852361	26-Jul-16	37.1	WHI16000178	0.004	4
AA068524	soil	2016	UTM83-9	530108	6852359	26-Jul-16	23.3	WHI16000178	0.007	7
AA068525	soil	2016	UTM83-9	530057	6852359	26-Jul-16	23.6	WHI16000178	0.2236	223.6
AA068526	soil	2016	UTM83-9	530007	6852360	26-Jul-16	21.9	WHI16000178	0.0031	3.1
AA068527	soil	2016	UTM83-9	529951	6852362	26-Jul-16	11.3	WHI16000178	0.0035	3.5
AA068528	soil	2016	UTM83-9	529902	6852358	26-Jul-16	30.5	WHI16000178	0.0046	4.6
AA068529	soil	2016	UTM83-9	529856	6852361	26-Jul-16	25.2	WHI16000178	0.0125	12.5
AA068530	soil	2016	UTM83-9	529805	6852358	26-Jul-16	49.9	WHI16000178	0.0082	8.2
AA068531	soil	2016	UTM83-9	529752	6852361	26-Jul-16	60	WHI16000178	0.0242	24.2
AA068532	soil	2016	UTM83-9	529704	6852360	26-Jul-16	236.1	WHI16000178	0.0328	32.8
AA068533	soil	2016	UTM83-9	529656	6852355	26-Jul-16	69.8	WHI16000178	0.0207	20.7
AA068534	soil	2016	UTM83-9	529605	6852355	26-Jul-16	102.4	WHI16000178	0.0438	43.8
AA068535	soil	2016	UTM83-9	529550	6852366	26-Jul-16	79.2	WHI16000178	0.0117	11.7
AA068536	soil	2016	UTM83-9	529507	6852356	26-Jul-16	62.4	WHI16000178	0.0116	11.6
AA068537	soil	2016	UTM83-9	529450	6852363	26-Jul-16	39.8	WHI16000178	0.0057	5.7
AA068538	soil	2016	UTM83-9	529398	6852366	26-Jul-16	34.9	WHI16000178	0.0058	5.8
AA068539	soil	2016	UTM83-9	529353	6852365	26-Jul-16	115.3	WHI16000178	0.0143	14.3
AA068540	soil	2016	UTM83-9	529310	6852357	26-Jul-16	33.2	WHI16000178	0.0187	18.7
AA068541	soil	2016	UTM83-9	529249	6852354	26-Jul-16	20.5	WHI16000178	0.0013	1.3
AA068542	soil	2016	UTM83-9	529200	6852354	26-Jul-16	443.5	WHI16000178	0.1336	133.6
AA068543	soil	2016	UTM83-9	529157	6852355	26-Jul-16	21.9	WHI16000178	0.0102	10.2
AA068544	soil	2016	UTM83-9	529111	6852346	26-Jul-16	23.6	WHI16000178	0.0084	8.4
AA068545	soil	2016	UTM83-9	529052	6852357	26-Jul-16	24.5	WHI16000178	0.0036	3.6
AA068546	soil	2016	UTM83-9	528961	6852361	26-Jul-16	17.3	WHI16000178	0.0009	0.9
AA068547	soil	2016	UTM83-9	528905	6852357	26-Jul-16	21.6	WHI16000178	0.0032	3.2
AA068548	soil	2016	UTM83-9	528856	6852351	26-Jul-16	19.7	WHI16000178	0.0031	3.1

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA068549	soil	2016	UTM83-9	528810	6852355	26-Jul-16	31.1	WHI16000178	0.0088	8.8
AA068550	soil	2016	UTM83-9	528749	6852364	26-Jul-16	24.5	WHI16000178	0.0343	34.3
AA068551	soil	2016	UTM83-9	528357	6851864	25-Jul-16	22.2	WHI16000178	0.0078	7.8
AA068552	soil	2016	UTM83-9	528401	6851861	25-Jul-16	21.6	WHI16000178	0.0092	9.2
AA068553	soil	2016	UTM83-9	528452	6851861	25-Jul-16	20.7	WHI16000178	0.0066	6.6
AA068554	soil	2016	UTM83-9	528505	6851859	25-Jul-16	17.5	WHI16000178	0.0067	6.7
AA068555	soil	2016	UTM83-9	528550	6851859	25-Jul-16	19.8	WHI16000178	0.0067	6.7
AA068556	soil	2016	UTM83-9	528605	6851862	25-Jul-16	16.8	WHI16000178	0.0062	6.2
AA068557	soil	2016	UTM83-9	528653	6851858	25-Jul-16	20.9	WHI16000178	0.0077	7.7
AA068558	soil	2016	UTM83-9	528706	6851861	25-Jul-16	20.3	WHI16000178	0.0081	8.1
AA068559	soil	2016	UTM83-9	528758	6851861	25-Jul-16	11.3	WHI16000178	0.005	5
AA068560	soil	2016	UTM83-9	528804	6851861	25-Jul-16	25.7	WHI16000178	0.0094	9.4
AA068561	soil	2016	UTM83-9	528858	6851859	25-Jul-16	66.6	WHI16000178	0.0418	41.8
AA068562	soil	2016	UTM83-9	528904	6851844	25-Jul-16	15.8	WHI16000178	0.0047	4.7
AA068563	soil	2016	UTM83-9	529002	6851859	25-Jul-16	18.5	WHI16000178	0.0058	5.8
AA068564	soil	2016	UTM83-9	529043	6851859	25-Jul-16	18.5	WHI16000178	0.0021	2.1
AA068565	soil	2016	UTM83-9	529093	6851874	25-Jul-16	20.2	WHI16000178	0.0063	6.3
AA068566	soil	2016	UTM83-9	529144	6851863	25-Jul-16	8.5	WHI16000178	0.0011	1.1
AA068567	soil	2016	UTM83-9	529208	6851861	25-Jul-16	13.3	WHI16000178	0.0016	1.6
AA068568	soil	2016	UTM83-9	529208	6851857	25-Jul-16	13.2	WHI16000178	0.0016	1.6
AA068569	soil	2016	UTM83-9	529255	6851855	25-Jul-16	29.5	WHI16000178	0.0051	5.1
AA068570	soil	2016	UTM83-9	529307	6851857	25-Jul-16	7.3	WHI16000178	0.0001	0.1
AA068571	soil	2016	UTM83-9	529347	6851856	25-Jul-16	13.3	WHI16000178	0.0019	1.9
AA068572	soil	2016	UTM83-9	530442	6852253	26-Jul-16	14.5	WHI16000178	0.0016	1.6
AA068573	soil	2016	UTM83-9	530408	6852262	26-Jul-16	15.3	WHI16000178	0.0017	1.7
AA068574	soil	2016	UTM83-9	530356	6852259	26-Jul-16	11.9	WHI16000178	0.0001	0.1
AA068575	soil	2016	UTM83-9	530305	6852269	26-Jul-16	16.6	WHI16000178	0.0003	0.3
AA068576	soil	2016	UTM83-9	530258	6852260	26-Jul-16	13	WHI16000178	0.0006	0.6
AA068577	soil	2016	UTM83-9	530158	6852259	26-Jul-16	12.5	WHI16000178	0.0012	1.2
AA068578	soil	2016	UTM83-9	530106	6852263	26-Jul-16	18.2	WHI16000178	0.0043	4.3
AA068579	soil	2016	UTM83-9	530054	6852262	26-Jul-16	27	WHI16000178	0.0012	1.2
AA068580	soil	2016	UTM83-9	530007	6852259	26-Jul-16	38.3	WHI16000178	0.0003	0.3
AA068581	soil	2016	UTM83-9	529947	6852252	26-Jul-16	24.1	WHI16000178	0.0008	0.8
AA068582	soil	2016	UTM83-9	529906	6852257	26-Jul-16	28.3	WHI16000178	0.0005	0.5
AA068583	soil	2016	UTM83-9	529862	6852261	26-Jul-16	322.7	WHI16000178	0.0624	62.4
AA068584	soil	2016	UTM83-9	529808	6852261	26-Jul-16	35	WHI16000178	0.0095	9.5
AA068585	soil	2016	UTM83-9	529755	6852259	26-Jul-16	14.6	WHI16000178	0.0007	0.7
AA068586	soil	2016	UTM83-9	529710	6852250	26-Jul-16	45.7	WHI16000178	0.0032	3.2
AA068587	soil	2016	UTM83-9	529640	6852271	26-Jul-16	58.7	WHI16000178	0.0066	6.6
AA068588	soil	2016	UTM83-9	529610	6852262	26-Jul-16	41.2	WHI16000178	0.0018	1.8
AA068589	soil	2016	UTM83-9	529560	6852263	26-Jul-16	26.2	WHI16000178	0.0025	2.5
AA068590	soil	2016	UTM83-9	529507	6852257	26-Jul-16	37.7	WHI16000178	0.0062	6.2
AA068591	soil	2016	UTM83-9	529455	6852258	26-Jul-16	160.9	WHI16000178	0.0444	44.4
AA068592	soil	2016	UTM83-9	529404	6852258	26-Jul-16	261.8	WHI16000178	0.0433	43.3
AA068593	soil	2016	UTM83-9	529359	6852254	26-Jul-16	172.8	WHI16000178	0.0305	30.5
AA068594	soil	2016	UTM83-9	529311	6852254	26-Jul-16	95.1	WHI16000178	0.0496	49.6
AA068595	soil	2016	UTM83-9	529252	6852254	26-Jul-16	49.6	WHI16000178	0.0463	46.3
AA068596	soil	2016	UTM83-9	529201	6852254	26-Jul-16	43.1	WHI16000178	0.0185	18.5
AA068597	soil	2016	UTM83-9	529155	6852249	26-Jul-16	18	WHI16000178	0.0013	1.3
AA068598	soil	2016	UTM83-9	529112	6852254	26-Jul-16	20.2	WHI16000178	0.0023	2.3
AA068599	soil	2016	UTM83-9	529061	6852244	26-Jul-16	59.2	WHI16000178	0.0174	17.4
AA068600	soil	2016	UTM83-9	529013	6852253	26-Jul-16	24	WHI16000178	0.0049	4.9
AA068601	soil	2016	UTM83-9	528961	6852261	27-Jul-16	44.1	WHI16000178	0.0156	15.6
AA068602	soil	2016	UTM83-9	528913	6852260	27-Jul-16	29.2	WHI16000178	0.0066	6.6
AA068603	soil	2016	UTM83-9	528854	6852260	27-Jul-16	25.4	WHI16000178	0.0032	3.2
AA068604	soil	2016	UTM83-9	528807	6852259	27-Jul-16	23.1	WHI16000178	0.0042	4.2
AA068605	soil	2016	UTM83-9	528765	6852257	27-Jul-16	20.4	WHI16000178	0.0029	2.9
AA068606	soil	2016	UTM83-9	528704	6852256	27-Jul-16	18.8	WHI16000178	0.0028	2.8
AA068607	soil	2016	UTM83-9	528704	6852257	27-Jul-16	17.6	WHI16000178	0.0021	2.1
AA068608	soil	2016	UTM83-9	528652	6852256	27-Jul-16	49.9	WHI16000178	0.0111	11.1
AA068609	soil	2016	UTM83-9	528591	6852256	27-Jul-16	27.7	WHI16000178	0.008	8

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA068610	soil	2016	UTM83-9	528558	6852259	27-Jul-16	15.8	WHI16000178	0.0022	2.2
AA068611	soil	2016	UTM83-9	528514	6852264	27-Jul-16	19.9	WHI16000178	0.005	5
AA068612	soil	2016	UTM83-9	528455	6852249	27-Jul-16	19.4	WHI16000178	0.0037	3.7
AA068613	soil	2016	UTM83-9	528400	6852257	27-Jul-16	17.4	WHI16000178	0.0024	2.4
AA068614	soil	2016	UTM83-9	528345	6852254	27-Jul-16	41.2	WHI16000178	0.057	57
AA068615	soil	2016	UTM83-9	528300	6852253	27-Jul-16	36.3	WHI16000178	0.0034	3.4
AA068616	soil	2016	UTM83-9	528249	6852256	27-Jul-16	16.3	WHI16000178	0.0009	0.9
AA068617	soil	2016	UTM83-9	528205	6852255	27-Jul-16	8.1	WHI16000178	0.0014	1.4
AA068618	soil	2016	UTM83-9	528154	6852256	27-Jul-16	24.1	WHI16000178	0.0092	9.2
AA068619	soil	2016	UTM83-9	528106	6852254	27-Jul-16	9.2	WHI16000178	0.0001	0.1
AA068620	soil	2016	UTM83-9	528056	6852258	27-Jul-16	7.1	WHI16000178	0.0006	0.6
AA068621	soil	2016	UTM83-9	528009	6852264	27-Jul-16	199.5	WHI16000178	0.0304	30.4
AA068622	soil	2016	UTM83-9	527952	6852262	27-Jul-16	28.9	WHI16000178	0.0036	3.6
AA068623	soil	2016	UTM83-9	527906	6852255	27-Jul-16	34.8	WHI16000178	0.0045	4.5
AA068624	soil	2016	UTM83-9	527857	6852256	27-Jul-16	10.5	WHI16000178	0.0002	0.2
AA068625	soil	2016	UTM83-9	527802	6852258	27-Jul-16	7.6	WHI16000178	0.0001	0.1
AA068626	soil	2016	UTM83-9	527750	6852254	27-Jul-16	113.2	WHI16000178	0.0012	1.2
AA068627	soil	2016	UTM83-9	527707	6852254	27-Jul-16	46	WHI16000178	0.0013	1.3
AA068628	soil	2016	UTM83-9	527662	6852263	27-Jul-16	25.1	WHI16000178	0.0001	0.1
AA068629	soil	2016	UTM83-9	527756	6852352	27-Jul-16	26	WHI16000178	0.001	1
AA068630	soil	2016	UTM83-9	527707	6852358	27-Jul-16	22.3	WHI16000178	0.0001	0.1
AA068631	soil	2016	UTM83-9	527656	6852352	27-Jul-16	49.4	WHI16000178	0.0001	0.1
AA068632	soil	2016	UTM83-9	527805	6852365	27-Jul-16	21.3	WHI16000178	0.0001	0.1
AA068633	soil	2016	UTM83-9	527847	6852360	27-Jul-16	25.6	WHI16000178	0.001	1
AA068634	soil	2016	UTM83-9	530650	6852664	28-Jul-16	9.1	WHI16000178	0.0011	1.1
AA068635	soil	2016	UTM83-9	530609	6852655	28-Jul-16	7.3	WHI16000178	0.0001	0.1
AA068636	soil	2016	UTM83-9	530553	6852656	28-Jul-16	8.1	WHI16000178	0.0001	0.1
AA068637	soil	2016	UTM83-9	530506	6852656	28-Jul-16	12.7	WHI16000178	0.0001	0.1
AA068638	soil	2016	UTM83-9	530459	6852660	28-Jul-16	8.9	WHI16000178	0.0008	0.8
AA068639	soil	2016	UTM83-9	530410	6852662	28-Jul-16	10.1	WHI16000178	0.0012	1.2
AA068640	soil	2016	UTM83-9	530361	6852660	28-Jul-16	11.6	WHI16000178	0.0021	2.1
AA068641	soil	2016	UTM83-9	530313	6852659	28-Jul-16	9.2	WHI16000178	0.0023	2.3
AA068642	soil	2016	UTM83-9	530262	6852656	28-Jul-16	18.6	WHI16000178	0.003	3
AA068643	soil	2016	UTM83-9	530205	6852653	28-Jul-16	13.9	WHI16000178	0.0001	0.1
AA068644	soil	2016	UTM83-9	530155	6852662	28-Jul-16	11.1	WHI16000178	0.0001	0.1
AA068645	soil	2016	UTM83-9	530107	6852657	28-Jul-16	12.3	WHI16000178	0.0001	0.1
AA068646	soil	2016	UTM83-9	530056	6852655	28-Jul-16	11.2	WHI16000178	0.0011	1.1
AA068647	soil	2016	UTM83-9	530056	6852656	28-Jul-16	9.5	WHI16000178	0.003	3
AA068648	soil	2016	UTM83-9	530004	6852666	28-Jul-16	13.1	WHI16000178	0.0028	2.8
AA068649	soil	2016	UTM83-9	529957	6852658	28-Jul-16	14.8	WHI16000178	0.0024	2.4
AA068650	soil	2016	UTM83-9	529898	6852654	28-Jul-16	72.7	WHI16000178	0.0336	33.6
AA068651	soil	2016	UTM83-9	529506	6852561	26-Jul-16	34.4	WHI16000178	0.002	2
AA068652	soil	2016	UTM83-9	529460	6852560	26-Jul-16	107.7	WHI16000178	0.0127	12.7
AA068653	soil	2016	UTM83-9	529400	6852561	26-Jul-16	1103.2	WHI16000178	0.2404	240.4
AA068654	soil	2016	UTM83-9	529339	6852567	26-Jul-16	133.9	WHI16000178	0.0343	34.3
AA068655	soil	2016	UTM83-9	529295	6852562	26-Jul-16	13.8	WHI16000178	0.0001	0.1
AA068656	soil	2016	UTM83-9	529263	6852554	26-Jul-16	94.8	WHI16000178	0.0124	12.4
AA068657	soil	2016	UTM83-9	529209	6852558	26-Jul-16	68.7	WHI16000178	0.009	9
AA068658	soil	2016	UTM83-9	527457	6852562	27-Jul-16	37.5	WHI16000178	0.0029	2.9
AA068659	soil	2016	UTM83-9	527501	6852555	27-Jul-16	33.4	WHI16000178	0.0042	4.2
AA068660	soil	2016	UTM83-9	527549	6852563	27-Jul-16	35.4	WHI16000178	0.0032	3.2
AA068661	soil	2016	UTM83-9	527605	6852557	27-Jul-16	28.4	WHI16000178	0.003	3
AA068662	soil	2016	UTM83-9	527651	6852559	27-Jul-16	52	WHI16000178	0.001	1
AA068663	soil	2016	UTM83-9	527703	6852553	27-Jul-16	97.3	WHI16000178	0.0055	5.5
AA068664	soil	2016	UTM83-9	527755	6852559	27-Jul-16	33.5	WHI16000178	0.0017	1.7
AA068665	soil	2016	UTM83-9	527804	6852549	27-Jul-16	40.5	WHI16000178	0.0044	4.4
AA068666	soil	2016	UTM83-9	527852	6852559	27-Jul-16	51.4	WHI16000178	0.0092	9.2
AA068667	soil	2016	UTM83-9	527908	6852569	27-Jul-16	5.5	WHI16000178	0.0071	7.1
AA068668	soil	2016	UTM83-9	527952	6852564	27-Jul-16	16.5	WHI16000178	0.009	9
AA068669	soil	2016	UTM83-9	528006	6852561	27-Jul-16	21.2	WHI16000178	0.002	2
AA068670	soil	2016	UTM83-9	528051	6852560	27-Jul-16	17.2	WHI16000178	0.0012	1.2

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA068671	soil	2016	UTM83-9	528104	6852556	27-Jul-16	24.3	WHI16000178	0.0032	3.2
AA068672	soil	2016	UTM83-9	528153	6852562	27-Jul-16	27.9	WHI16000178	0.0094	9.4
AA068673	soil	2016	UTM83-9	528153	6852562	27-Jul-16	26.4	WHI16000178	0.0034	3.4
AA068674	soil	2016	UTM83-9	528197	6852558	27-Jul-16	0.7	WHI16000178	0.0001	0.1
AA068675	soil	2016	UTM83-9	528249	6852558	27-Jul-16	15.5	WHI16000178	0.0092	9.2
AA068676	soil	2016	UTM83-9	528305	6852560	27-Jul-16	37.1	WHI16000178	0.0176	17.6
AA068677	soil	2016	UTM83-9	528352	6852569	27-Jul-16	22.5	WHI16000178	0.0049	4.9
AA068678	soil	2016	UTM83-9	528405	6852560	27-Jul-16	6.8	WHI16000178	0.002	2
AA068679	soil	2016	UTM83-9	528451	6852566	27-Jul-16	22.1	WHI16000178	0.0096	9.6
AA068680	soil	2016	UTM83-9	528503	6852562	27-Jul-16	183	WHI16000178	0.0408	40.8
AA068681	soil	2016	UTM83-9	528554	6852562	27-Jul-16	288	WHI16000178	0.0629	62.9
AA068682	soil	2016	UTM83-9	528602	6852566	27-Jul-16	349.5	WHI16000178	0.0763	76.3
AA068683	soil	2016	UTM83-9	528654	6852561	27-Jul-16	73.9	WHI16000178	0.0115	11.5
AA068684	soil	2016	UTM83-9	528703	6852567	27-Jul-16	75.4	WHI16000178	0.0127	12.7
AA068685	soil	2016	UTM83-9	528753	6852562	27-Jul-16	39.9	WHI16000178	0.0121	12.1
AA068686	soil	2016	UTM83-9	528805	6852564	27-Jul-16	222.2	WHI16000178	0.0351	35.1
AA068687	soil	2016	UTM83-9	528852	6852555	27-Jul-16	322.9	WHI16000178	0.0631	63.1
AA068688	soil	2016	UTM83-9	528902	6852556	27-Jul-16	17.6	WHI16000178	0.0053	5.3
AA068689	soil	2016	UTM83-9	528951	6852559	27-Jul-16	11.8	WHI16000178	0.0011	1.1
AA068690	soil	2016	UTM83-9	529000	6852558	27-Jul-16	125.1	WHI16000178	0.15	150
AA068691	soil	2016	UTM83-9	529051	6852560	27-Jul-16	62.3	WHI16000179	0.0873	87.3
AA068692	soil	2016	UTM83-9	529101	6852559	27-Jul-16	54.6	WHI16000179	0.0559	55.9
AA068694	soil	2016	UTM83-9	529148	6852560	27-Jul-16	43.6	WHI16000179	0.0174	17.4
AA068695	soil	2016	UTM83-9	530653	6852958	28-Jul-16	10.4	WHI16000179	0.0018	1.8
AA068696	soil	2016	UTM83-9	530612	6852961	28-Jul-16	14.5	WHI16000179	0.0026	2.6
AA068697	soil	2016	UTM83-9	530545	6852965	28-Jul-16	35.5	WHI16000179	0.0076	7.6
AA068698	soil	2016	UTM83-9	530500	6852962	28-Jul-16	9	WHI16000179	0.0015	1.5
AA068699	soil	2016	UTM83-9	530450	6852959	28-Jul-16	9	WHI16000179	0.001	1
AA068700	soil	2016	UTM83-9	530402	6852953	28-Jul-16	10	WHI16000179	0.0017	1.7
AA068701	soil	2016	UTM83-9	528754	6852460	27-Jul-16	8.1	WHI16000179	0.01	10
AA068702	soil	2016	UTM83-9	528705	6852455	27-Jul-16	39.9	WHI16000179	0.0102	10.2
AA068703	soil	2016	UTM83-9	528657	6852463	27-Jul-16	25.7	WHI16000179	0.01	10
AA068704	soil	2016	UTM83-9	528602	6852460	27-Jul-16	28.3	WHI16000179	0.0106	10.6
AA068705	soil	2016	UTM83-9	528545	6852465	27-Jul-16	16.3	WHI16000179	0.0022	2.2
AA068706	soil	2016	UTM83-9	528506	6852457	27-Jul-16	146.6	WHI16000179	0.0182	18.2
AA068707	soil	2016	UTM83-9	528452	6852456	27-Jul-16	11.6	WHI16000179	0.0026	2.6
AA068708	soil	2016	UTM83-9	528410	6852461	27-Jul-16	7.5	WHI16000179	0.0019	1.9
AA068709	soil	2016	UTM83-9	528344	6852448	27-Jul-16	32.2	WHI16000179	0.0094	9.4
AA068710	soil	2016	UTM83-9	528302	6852458	27-Jul-16	21.5	WHI16000179	0.011	11
AA068711	soil	2016	UTM83-9	528241	6852469	27-Jul-16	49.9	WHI16000179	0.0098	9.8
AA068712	soil	2016	UTM83-9	528200	6852455	27-Jul-16	5.3	WHI16000179	0.001	1
AA068713	soil	2016	UTM83-9	528147	6852467	27-Jul-16	15.5	WHI16000179	0.004	4
AA068714	soil	2016	UTM83-9	528103	6852468	27-Jul-16	14.2	WHI16000179	0.0021	2.1
AA068715	soil	2016	UTM83-9	528102	6852465	27-Jul-16	20.4	WHI16000179	0.0036	3.6
AA068716	soil	2016	UTM83-9	528056	6852460	27-Jul-16	6.5	WHI16000179	0.0012	1.2
AA068717	soil	2016	UTM83-9	528003	6852458	27-Jul-16	12.4	WHI16000179	0.0011	1.1
AA068718	soil	2016	UTM83-9	527958	6852460	27-Jul-16	27.7	WHI16000179	0.0011	1.1
AA068719	soil	2016	UTM83-9	527906	6852461	27-Jul-16	34.1	WHI16000179	0.0026	2.6
AA068720	soil	2016	UTM83-9	527851	6852458	27-Jul-16	11	WHI16000179	0.0006	0.6
AA068721	soil	2016	UTM83-9	527806	6852462	27-Jul-16	21.3	WHI16000179	0.0008	0.8
AA068722	soil	2016	UTM83-9	530646	6852856	28-Jul-16	4.3	WHI16000179	0.0015	1.5
AA068723	soil	2016	UTM83-9	530610	6852863	28-Jul-16	3	WHI16000179	0.0003	0.3
AA068724	soil	2016	UTM83-9	530557	6852862	28-Jul-16	4	WHI16000179	0.0009	0.9
AA068725	soil	2016	UTM83-9	530507	6852863	28-Jul-16	20	WHI16000179	0.0053	5.3
AA068726	soil	2016	UTM83-9	530459	6852861	28-Jul-16	16.3	WHI16000179	0.0037	3.7
AA068727	soil	2016	UTM83-9	530411	6852859	28-Jul-16	11.9	WHI16000179	0.0012	1.2
AA068728	soil	2016	UTM83-9	530363	6852862	28-Jul-16	12.4	WHI16000179	0.0015	1.5
AA068729	soil	2016	UTM83-9	530319	6852853	28-Jul-16	13.8	WHI16000179	0.001	1
AA068730	soil	2016	UTM83-9	530269	6852863	28-Jul-16	13	WHI16000179	0.001	1
AA068731	soil	2016	UTM83-9	530208	6852853	28-Jul-16	12	WHI16000179	0.0016	1.6
AA068732	soil	2016	UTM83-9	530151	6852860	28-Jul-16	13.3	WHI16000179	0.0018	1.8

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA068733	soil	2016	UTM83-9	530098	6852856	28-Jul-16	5	WHI16000179	0.0002	0.2
AA068734	soil	2016	UTM83-9	530051	6852858	28-Jul-16	11.3	WHI16000179	0.0005	0.5
AA068735	soil	2016	UTM83-9	530002	6852869	28-Jul-16	14.9	WHI16000179	0.0011	1.1
AA068736	soil	2016	UTM83-9	529955	6852871	28-Jul-16	23.4	WHI16000179	0.0019	1.9
AA068737	soil	2016	UTM83-9	529911	6852869	28-Jul-16	20.4	WHI16000179	0.0031	3.1
AA068738	soil	2016	UTM83-9	529848	6852869	28-Jul-16	12.8	WHI16000179	0.0022	2.2
AA068739	soil	2016	UTM83-9	529803	6852864	28-Jul-16	10.8	WHI16000179	0.0018	1.8
AA068740	soil	2016	UTM83-9	529750	6852853	28-Jul-16	16.5	WHI16000179	0.0014	1.4
AA068741	soil	2016	UTM83-9	529705	6852861	28-Jul-16	16.8	WHI16000179	0.0027	2.7
AA068742	soil	2016	UTM83-9	529663	6852859	28-Jul-16	10.8	WHI16000179	0.0028	2.8
AA068743	soil	2016	UTM83-9	529603	6852855	28-Jul-16	24.1	WHI16000179	0.0054	5.4
AA068744	soil	2016	UTM83-9	529558	6852850	28-Jul-16	15.1	WHI16000179	0.002	2
AA068745	soil	2016	UTM83-9	527205	6852869	29-Jul-16	23	WHI16000179	0.0017	1.7
AA068746	soil	2016	UTM83-9	527250	6852859	29-Jul-16	26.1	WHI16000179	0.0043	4.3
AA068747	soil	2016	UTM83-9	527302	6852856	29-Jul-16	53.1	WHI16000179	0.0183	18.3
AA068748	soil	2016	UTM83-9	527349	6852860	29-Jul-16	53.9	WHI16000179	0.0055	5.5
AA068749	soil	2016	UTM83-9	527397	6852860	29-Jul-16	37.3	WHI16000179	0.0035	3.5
AA068750	soil	2016	UTM83-9	527452	6852859	29-Jul-16	22.3	WHI16000179	0.0021	2.1
AA068751	soil	2016	UTM83-9	528704	6852362	29-Jul-16	17.5	WHI16000179	0.006	6
AA068752	soil	2016	UTM83-9	528601	6852357	29-Jul-16	29.9	WHI16000179	0.0113	11.3
AA068753	soil	2016	UTM83-9	528551	6852366	29-Jul-16	18.3	WHI16000179	0.0054	5.4
AA068754	soil	2016	UTM83-9	528504	6852360	29-Jul-16	19.7	WHI16000179	0.0061	6.1
AA068755	soil	2016	UTM83-9	528453	6852355	29-Jul-16	18.8	WHI16000179	0.003	3
AA068756	soil	2016	UTM83-9	528453	6852355	29-Jul-16	18.9	WHI16000179	0.0032	3.2
AA068757	soil	2016	UTM83-9	528400	6852359	29-Jul-16	37.3	WHI16000179	0.0138	13.8
AA068758	soil	2016	UTM83-9	528359	6852355	29-Jul-16	38	WHI16000179	0.0145	14.5
AA068759	soil	2016	UTM83-9	528305	6852360	29-Jul-16	69.1	WHI16000179	0.4907	490.7
AA068760	soil	2016	UTM83-9	528249	6852358	29-Jul-16	4.7	WHI16000179	0.0022	2.2
AA068761	soil	2016	UTM83-9	528208	6852361	29-Jul-16	12.4	WHI16000179	0.0028	2.8
AA069010	soil	2016	UTM83-9	527057	6854258	05-Aug-16	34.8	WHI16000234	0.0093	9.3
AA069011	soil	2016	UTM83-9	527100	6854262	05-Aug-16	74.4	WHI16000234	0.0223	22.3
AA069012	soil	2016	UTM83-9	527153	6854261	05-Aug-16	54.3	WHI16000234	0.0344	34.4
AA069013	soil	2016	UTM83-9	527198	6854257	05-Aug-16	74.2	WHI16000234	0.0128	12.8
AA069014	soil	2016	UTM83-9	527248	6854258	05-Aug-16	98.3	WHI16000234	0.014	14
AA069015	soil	2016	UTM83-9	527301	6854267	05-Aug-16	44.4	WHI16000234	0.0019	1.9
AA069016	soil	2016	UTM83-9	527350	6854260	05-Aug-16	21.6	WHI16000234	0.0017	1.7
AA069017	soil	2016	UTM83-9	527402	6854261	05-Aug-16	13.7	WHI16000234	0.0008	0.8
AA069018	soil	2016	UTM83-9	527456	6854262	05-Aug-16	14.7	WHI16000234	0.0013	1.3
AA069019	soil	2016	UTM83-9	527501	6854258	05-Aug-16	12.4	WHI16000234	0.002	2
AA069020	soil	2016	UTM83-9	527557	6854263	05-Aug-16	8.9	WHI16000234	0.0021	2.1
AA069021	soil	2016	UTM83-9	527604	6854255	05-Aug-16	13.7	WHI16000234	0.0023	2.3
AA069022	soil	2016	UTM83-9	527658	6854256	05-Aug-16	36.6	WHI16000234	0.0066	6.6
AA069023	soil	2016	UTM83-9	527704	6854254	05-Aug-16	64.5	WHI16000234	0.0145	14.5
AA069024	soil	2016	UTM83-9	527746	6854260	05-Aug-16	50.7	WHI16000234	0.0128	12.8
AA069025	soil	2016	UTM83-9	527805	6854261	05-Aug-16	87.8	WHI16000234	0.0201	20.1
AA069026	soil	2016	UTM83-9	527850	6854261	05-Aug-16	136.5	WHI16000234	0.0185	18.5
AA069027	soil	2016	UTM83-9	527906	6854266	05-Aug-16	50.4	WHI16000234	0.0061	6.1
AA069028	soil	2016	UTM83-9	527947	6854260	05-Aug-16	6.2	WHI16000234	0.0017	1.7
AA069029	soil	2016	UTM83-9	529355	6854869	06-Aug-16	39.3	WHI16000234	0.0062	6.2
AA069030	soil	2016	UTM83-9	529403	6854856	06-Aug-16	57.1	WHI16000234	0.0113	11.3
AA069031	soil	2016	UTM83-9	529449	6854857	06-Aug-16	52.5	WHI16000234	0.0094	9.4
AA069032	soil	2016	UTM83-9	529504	6854860	06-Aug-16	8.3	WHI16000234	0.0013	1.3
AA069033	soil	2016	UTM83-9	529556	6854851	06-Aug-16	6.4	WHI16000234	0.0012	1.2
AA068762	soil	2016	UTM83-9	528155	6852350	06-Aug-16	17.6	WHI16000179	0.0044	4.4
AA068763	soil	2016	UTM83-9	528103	6852356	06-Aug-16	126.3	WHI16000179	0.0288	28.8
AA068764	soil	2016	UTM83-9	528058	6852364	06-Aug-16	30.2	WHI16000179	0.0027	2.7
AA068765	soil	2016	UTM83-9	528004	6852355	06-Aug-16	30.5	WHI16000179	0.0026	2.6
AA068766	soil	2016	UTM83-9	527952	6852363	06-Aug-16	11.9	WHI16000179	0.0021	2.1
AA068767	soil	2016	UTM83-9	527904	6852359	06-Aug-16	32	WHI16000179	0.0013	1.3
AA068768	soil	2016	UTM83-9	530650	6852764	06-Aug-16	4	WHI16000179	0.004	4
AA068769	soil	2016	UTM83-9	530606	6852760	06-Aug-16	7.1	WHI16000179	0.0016	1.6

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA068770	soil	2016	UTM83-9	530558	6852761	06-Aug-16	8.7	WHI16000179	0.0016	1.6
AA068771	soil	2016	UTM83-9	530508	6852761	06-Aug-16	8.3	WHI16000179	0.0019	1.9
AA068772	soil	2016	UTM83-9	530457	6852758	06-Aug-16	9.8	WHI16000179	0.0041	4.1
AA068773	soil	2016	UTM83-9	530403	6852755	06-Aug-16	10.3	WHI16000179	0.001	1
AA068774	soil	2016	UTM83-9	530356	6852760	06-Aug-16	12.6	WHI16000179	0.0013	1.3
AA068775	soil	2016	UTM83-9	530306	6852758	06-Aug-16	12.4	WHI16000179	0.0001	0.1
AA068776	soil	2016	UTM83-9	530252	6852757	06-Aug-16	14	WHI16000179	0.001	1
AA068777	soil	2016	UTM83-9	530208	6852759	06-Aug-16	13.8	WHI16000179	0.0013	1.3
AA068778	soil	2016	UTM83-9	530156	6852760	06-Aug-16	12.1	WHI16000179	0.002	2
AA068779	soil	2016	UTM83-9	530106	6852760	06-Aug-16	16.3	WHI16000179	0.0007	0.7
AA068780	soil	2016	UTM83-9	530054	6852762	06-Aug-16	5.6	WHI16000179	0.0001	0.1
AA068781	soil	2016	UTM83-9	530004	6852760	06-Aug-16	10.7	WHI16000179	0.0005	0.5
AA068782	soil	2016	UTM83-9	529955	6852757	06-Aug-16	15.4	WHI16000179	0.0001	0.1
AA068783	soil	2016	UTM83-9	529902	6852769	06-Aug-16	17.1	WHI16000179	0.0005	0.5
AA068784	soil	2016	UTM83-9	529849	6852761	06-Aug-16	12.8	WHI16000179	0.0007	0.7
AA068785	soil	2016	UTM83-9	529804	6852760	06-Aug-16	11.5	WHI16000179	0.0005	0.5
AA068786	soil	2016	UTM83-9	529756	6852765	06-Aug-16	12.1	WHI16000179	0.0012	1.2
AA068787	soil	2016	UTM83-9	529700	6852760	06-Aug-16	8.1	WHI16000179	0.0005	0.5
AA068788	soil	2016	UTM83-9	529648	6852756	06-Aug-16	9.5	WHI16000179	0.001	1
AA068789	soil	2016	UTM83-9	529599	6852748	06-Aug-16	12.4	WHI16000179	0.0021	2.1
AA068790	soil	2016	UTM83-9	529560	6852760	06-Aug-16	12.9	WHI16000179	0.0009	0.9
AA068791	soil	2016	UTM83-9	529458	6852759	06-Aug-16	18.1	WHI16000179	0.0053	5.3
AA068792	soil	2016	UTM83-9	527405	6852766	06-Aug-16	26.8	WHI16000179	0.0016	1.6
AA068793	soil	2016	UTM83-9	527447	6852761	06-Aug-16	40.7	WHI16000179	0.0027	2.7
AA068794	soil	2016	UTM83-9	527505	6852762	06-Aug-16	34.5	WHI16000179	0.0017	1.7
AA068795	soil	2016	UTM83-9	527506	6852761	06-Aug-16	34.4	WHI16000179	0.0025	2.5
AA068796	soil	2016	UTM83-9	527557	6852759	06-Aug-16	37	WHI16000179	0.0015	1.5
AA068797	soil	2016	UTM83-9	527608	6852755	06-Aug-16	29.5	WHI16000179	0.0052	5.2
AA068798	soil	2016	UTM83-9	527654	6852766	06-Aug-16	35.4	WHI16000179	0.0022	2.2
AA068799	soil	2016	UTM83-9	527707	6852761	06-Aug-16	41.2	WHI16000179	0.003	3
AA068800	soil	2016	UTM83-9	527757	6852759	06-Aug-16	62.5	WHI16000179	0.0034	3.4
AA068801	soil	2016	UTM83-9	529858	6852658	28-Jul-16	15	WHI16000179	0.0017	1.7
AA068802	soil	2016	UTM83-9	529814	6852650	28-Jul-16	16	WHI16000179	0.004	4
AA068803	soil	2016	UTM83-9	529762	6852670	28-Jul-16	1022.9	WHI16000179	0.2413	241.3
AA068804	soil	2016	UTM83-9	529709	6852649	28-Jul-16	95.5	WHI16000179	0.0097	9.7
AA068805	soil	2016	UTM83-9	529660	6852660	28-Jul-16	133.7	WHI16000179	0.0089	8.9
AA068806	soil	2016	UTM83-9	529608	6852654	28-Jul-16	68.9	WHI16000179	0.0091	9.1
AA068807	soil	2016	UTM83-9	529551	6852657	28-Jul-16	11.9	WHI16000179	0.0021	2.1
AA068808	soil	2016	UTM83-9	529506	6852656	28-Jul-16	11.8	WHI16000179	0.0042	4.2
AA068809	soil	2016	UTM83-9	529459	6852657	28-Jul-16	7.1	WHI16000179	0.0019	1.9
AA068810	soil	2016	UTM83-9	527409	6852659	29-Jul-16	33.2	WHI16000179	0.0038	3.8
AA068811	soil	2016	UTM83-9	527453	6852657	29-Jul-16	22	WHI16000179	0.0014	1.4
AA068812	soil	2016	UTM83-9	527501	6852662	29-Jul-16	35.1	WHI16000179	0.0032	3.2
AA068813	soil	2016	UTM83-9	527549	6852665	29-Jul-16	19.6	WHI16000179	0.0018	1.8
AA068814	soil	2016	UTM83-9	527602	6852666	29-Jul-16	29.8	WHI16000179	0.0024	2.4
AA068815	soil	2016	UTM83-9	527662	6852654	29-Jul-16	40.5	WHI16000179	0.0037	3.7
AA068816	soil	2016	UTM83-9	527703	6852658	29-Jul-16	24.5	WHI16000179	0.0016	1.6
AA068817	soil	2016	UTM83-9	527751	6852656	29-Jul-16	35.2	WHI16000179	0.0011	1.1
AA068818	soil	2016	UTM83-9	527802	6852661	29-Jul-16	24.4	WHI16000179	0.0017	1.7
AA068819	soil	2016	UTM83-9	527848	6852657	29-Jul-16	9.2	WHI16000179	0.0001	0.1
AA068820	soil	2016	UTM83-9	527905	6852656	29-Jul-16	53.4	WHI16000179	0.0021	2.1
AA068821	soil	2016	UTM83-9	527954	6852656	29-Jul-16	35.7	WHI16000179	0.0031	3.1
AA068822	soil	2016	UTM83-9	528003	6852648	29-Jul-16	32.2	WHI16000179	0.0047	4.7
AA068823	soil	2016	UTM83-9	528051	6852662	29-Jul-16	49.9	WHI16000179	0.0035	3.5
AA068824	soil	2016	UTM83-9	528102	6852666	29-Jul-16	34.9	WHI16000179	0.0087	8.7
AA068825	soil	2016	UTM83-9	528156	6852665	29-Jul-16	19.5	WHI16000179	0.0029	2.9
AA068826	soil	2016	UTM83-9	528199	6852660	29-Jul-16	24.2	WHI16000179	0.004	4
AA068827	soil	2016	UTM83-9	528256	6852662	29-Jul-16	38.1	WHI16000179	0.0116	11.6
AA068828	soil	2016	UTM83-9	528306	6852663	29-Jul-16	1.3	WHI16000179	0.0004	0.4
AA068829	soil	2016	UTM83-9	528354	6852666	29-Jul-16	121.6	WHI16000179	0.0204	20.4
AA068830	soil	2016	UTM83-9	528397	6852658	29-Jul-16	127.8	WHI16000179	0.0042	4.2

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA068831	soil	2016	UTM83-9	528449	6852659	29-Jul-16	602.4	WHI16000179	0.0617	61.7
AA068832	soil	2016	UTM83-9	528493	6852666	29-Jul-16	125.1	WHI16000179	0.0318	31.8
AA068833	soil	2016	UTM83-9	528548	6852660	29-Jul-16	110.3	WHI16000179	0.0311	31.1
AA068834	soil	2016	UTM83-9	528601	6852662	29-Jul-16	99.2	WHI16000179	0.0141	14.1
AA068835	soil	2016	UTM83-9	529051	6853056	30-Jul-16	19.6	WHI16000179	0.0024	2.4
AA068836	soil	2016	UTM83-9	529051	6853056	30-Jul-16	18.5	WHI16000179	0.0028	2.8
AA068837	soil	2016	UTM83-9	529098	6853056	30-Jul-16	19.3	WHI16000179	0.0024	2.4
AA068838	soil	2016	UTM83-9	529151	6853057	30-Jul-16	57.6	WHI16000179	0.0252	25.2
AA068839	soil	2016	UTM83-9	529196	6853053	30-Jul-16	39	WHI16000179	0.0057	5.7
AA068840	soil	2016	UTM83-9	529246	6853054	30-Jul-16	15.6	WHI16000179	0.0011	1.1
AA068841	soil	2016	UTM83-9	529300	6853058	30-Jul-16	41.4	WHI16000179	0.0106	10.6
AA068842	soil	2016	UTM83-9	529346	6853068	30-Jul-16	47.3	WHI16000179	0.0213	21.3
AA068843	soil	2016	UTM83-9	529399	6853091	30-Jul-16	21.4	WHI16000179	0.0046	4.6
AA068844	soil	2016	UTM83-9	529444	6853063	30-Jul-16	11.3	WHI16000179	0.0034	3.4
AA068845	soil	2016	UTM83-9	529497	6853052	30-Jul-16	17.2	WHI16000179	0.002	2
AA068846	soil	2016	UTM83-9	529554	6853053	30-Jul-16	8.4	WHI16000179	0.0011	1.1
AA068847	soil	2016	UTM83-9	529599	6853058	30-Jul-16	16.5	WHI16000179	0.0026	2.6
AA068848	soil	2016	UTM83-9	529650	6853053	30-Jul-16	13.5	WHI16000179	0.0015	1.5
AA068849	soil	2016	UTM83-9	529700	6853051	30-Jul-16	22.8	WHI16000179	0.0038	3.8
AA068850	soil	2016	UTM83-9	529748	6853058	30-Jul-16	28.5	WHI16000179	0.0013	1.3
AA068851	soil	2016	UTM83-9	528056	6853356	31-Jul-16	45.7	WHI16000179	0.0094	9.4
AA068852	soil	2016	UTM83-9	528002	6853360	31-Jul-16	81.2	WHI16000179	0.0199	19.9
AA068853	soil	2016	UTM83-9	527955	6853354	31-Jul-16	50.5	WHI16000179	0.0117	11.7
AA068854	soil	2016	UTM83-9	527901	6853362	31-Jul-16	136.5	WHI16000179	0.0345	34.5
AA068855	soil	2016	UTM83-9	527860	6853366	31-Jul-16	79.6	WHI16000179	0.0185	18.5
AA068856	soil	2016	UTM83-9	527804	6853355	31-Jul-16	60.1	WHI16000179	0.0109	10.9
AA068857	soil	2016	UTM83-9	527754	6853361	31-Jul-16	115.4	WHI16000179	0.0321	32.1
AA068858	soil	2016	UTM83-9	527704	6853357	31-Jul-16	48.3	WHI16000179	0.0095	9.5
AA068859	soil	2016	UTM83-9	527651	6853358	31-Jul-16	71.7	WHI16000179	0.0115	11.5
AA068860	soil	2016	UTM83-9	527598	6853356	31-Jul-16	72.9	WHI16000179	0.0164	16.4
AA068861	soil	2016	UTM83-9	527553	6853362	31-Jul-16	55.4	WHI16000179	0.0135	13.5
AA068862	soil	2016	UTM83-9	527495	6853357	31-Jul-16	54.5	WHI16000179	0.0119	11.9
AA068863	soil	2016	UTM83-9	527451	6853355	31-Jul-16	68.4	WHI16000179	0.0085	8.5
AA068864	soil	2016	UTM83-9	527401	6853364	31-Jul-16	49.3	WHI16000179	0.005	5
AA068865	soil	2016	UTM83-9	527353	6853357	31-Jul-16	29	WHI16000179	0.0029	2.9
AA068866	soil	2016	UTM83-9	527309	6853358	31-Jul-16	62	WHI16000179	0.0054	5.4
AA068867	soil	2016	UTM83-9	527251	6853356	31-Jul-16	19.4	WHI16000179	0.0031	3.1
AA068868	soil	2016	UTM83-9	527197	6853362	31-Jul-16	4	WHI16000179	0.0049	4.9
AA068869	soil	2016	UTM83-9	527153	6853357	31-Jul-16	9.9	WHI16000179	0.0005	0.5
AA068870	soil	2016	UTM83-9	527108	6853352	31-Jul-16	32.1	WHI16000179	0.0028	2.8
AA068871	soil	2016	UTM83-9	528951	6853772	01-Aug-16	55.1	WHI16000179	0.004	4
AA068872	soil	2016	UTM83-9	529007	6853762	01-Aug-16	48.7	WHI16000179	0.0041	4.1
AA068873	soil	2016	UTM83-9	529057	6853757	01-Aug-16	71.2	WHI16000179	0.0055	5.5
AA068874	soil	2016	UTM83-9	529107	6853766	01-Aug-16	71	WHI16000179	0.0026	2.6
AA068875	soil	2016	UTM83-9	529160	6853756	01-Aug-16	115.3	WHI16000179	0.0109	10.9
AA068876	soil	2016	UTM83-9	529206	6853753	01-Aug-16	60.6	WHI16000179	0.0056	5.6
AA068877	soil	2016	UTM83-9	529252	6853760	01-Aug-16	10.5	WHI16000179	0.0019	1.9
AA068878	soil	2016	UTM83-9	529301	6853762	01-Aug-16	11.9	WHI16000179	0.0033	3.3
AA068879	soil	2016	UTM83-9	529352	6853761	01-Aug-16	5	WHI16000179	0.0013	1.3
AA068880	soil	2016	UTM83-9	529404	6853753	01-Aug-16	10.6	WHI16000179	0.0031	3.1
AA068881	soil	2016	UTM83-9	529453	6853761	01-Aug-16	27.6	WHI16000179	0.0014	1.4
AA068882	soil	2016	UTM83-9	529505	6853760	01-Aug-16	14.8	WHI16000179	0.0001	0.1
AA068883	soil	2016	UTM83-9	529500	6853756	01-Aug-16	16.2	WHI16000179	0.0002	0.2
AA068884	soil	2016	UTM83-9	529563	6853753	01-Aug-16	20.6	WHI16000179	0.0014	1.4
AA068885	soil	2016	UTM83-9	529604	6853765	01-Aug-16	8.9	WHI16000179	0.0017	1.7
AA068886	soil	2016	UTM83-9	529653	6853760	01-Aug-16	35.9	WHI16000179	0.0015	1.5
AA068887	soil	2016	UTM83-9	529700	6853760	01-Aug-16	33.8	WHI16000179	0.0014	1.4
AA068888	soil	2016	UTM83-9	529752	6853759	01-Aug-16	25.1	WHI16000179	0.002	2
AA068889	soil	2016	UTM83-9	529803	6853761	01-Aug-16	12.5	WHI16000179	0.0007	0.7
AA068890	soil	2016	UTM83-9	529856	6853762	01-Aug-16	10.5	WHI16000179	0.0013	1.3
AA068891	soil	2016	UTM83-9	529908	6853759	01-Aug-16	21.5	WHI16000179	0.002	2

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA068892	soil	2016	UTM83-9	529949	6853763	01-Aug-16	52.5	WHI16000179	0.0051	5.1
AA068893	soil	2016	UTM83-9	530004	6853761	01-Aug-16	49	WHI16000179	0.0065	6.5
AA068894	soil	2016	UTM83-9	530053	6853759	01-Aug-16	113.6	WHI16000179	0.0137	13.7
AA068895	soil	2016	UTM83-9	530103	6853762	01-Aug-16	115	WHI16000179	0.0156	15.6
AA068896	soil	2016	UTM83-9	530156	6853767	01-Aug-16	37.2	WHI16000179	0.004	4
AA068897	soil	2016	UTM83-9	530204	6853761	01-Aug-16	147.8	WHI16000179	0.1094	109.4
AA068898	soil	2016	UTM83-9	530255	6853761	01-Aug-16	14.3	WHI16000179	0.004	4
AA068899	soil	2016	UTM83-9	530300	6853755	01-Aug-16	9.4	WHI16000179	0.0014	1.4
AA068900	soil	2016	UTM83-9	530354	6853757	01-Aug-16	15.5	WHI16000179	0.0015	1.5
AA068901	soil	2016	UTM83-9	530308	6852962	28-Jul-16	19.3	WHI16000179	0.0013	1.3
AA068902	soil	2016	UTM83-9	530255	6852953	28-Jul-16	14.5	WHI16000179	0.0019	1.9
AA068903	soil	2016	UTM83-9	530205	6852956	28-Jul-16	14.6	WHI16000179	0.0022	2.2
AA068904	soil	2016	UTM83-9	530154	6852956	28-Jul-16	8.1	WHI16000179	0.0009	0.9
AA068905	soil	2016	UTM83-9	530102	6852959	28-Jul-16	13.7	WHI16000179	0.0015	1.5
AA068906	soil	2016	UTM83-9	530047	6852959	28-Jul-16	14.8	WHI16000179	0.0006	0.6
AA068907	soil	2016	UTM83-9	530001	6852962	28-Jul-16	16.5	WHI16000179	0.0014	1.4
AA068908	soil	2016	UTM83-9	529952	6852958	28-Jul-16	14.5	WHI16000179	0.0019	1.9
AA068909	soil	2016	UTM83-9	529902	6852961	28-Jul-16	12.5	WHI16000179	0.0013	1.3
AA068910	soil	2016	UTM83-9	529854	6852949	28-Jul-16	17.2	WHI16000179	0.0015	1.5
AA068911	soil	2016	UTM83-9	529801	6852960	28-Jul-16	17.5	WHI16000179	0.0001	0.1
AA068912	soil	2016	UTM83-9	529801	6852960	28-Jul-16	16.1	WHI16000179	0.001	1
AA068913	soil	2016	UTM83-9	529750	6852959	28-Jul-16	19.4	WHI16000179	0.0001	0.1
AA068914	soil	2016	UTM83-9	529698	6852959	28-Jul-16	18.6	WHI16000179	0.0013	1.3
AA068915	soil	2016	UTM83-9	529650	6852956	28-Jul-16	18.5	WHI16000179	0.001	1
AA068916	soil	2016	UTM83-9	529606	6852954	28-Jul-16	9.1	WHI16000179	0.0007	0.7
AA068917	soil	2016	UTM83-9	529554	6852960	28-Jul-16	5.7	WHI16000179	0.0001	0.1
AA068918	soil	2016	UTM83-9	529497	6852955	28-Jul-16	19.4	WHI16000179	0.0037	3.7
AA068919	soil	2016	UTM83-9	529452	6852956	28-Jul-16	24.8	WHI16000179	0.0053	5.3
AA068920	soil	2016	UTM83-9	529403	6852959	28-Jul-16	11.2	WHI16000179	0.0017	1.7
AA068921	soil	2016	UTM83-9	527047	6852959	29-Jul-16	14.1	WHI16000179	0.0023	2.3
AA068922	soil	2016	UTM83-9	527101	6852952	29-Jul-16	18.3	WHI16000179	0.0033	3.3
AA068923	soil	2016	UTM83-9	527153	6852957	29-Jul-16	23.5	WHI16000179	0.0062	6.2
AA068924	soil	2016	UTM83-9	527199	6852964	29-Jul-16	23.1	WHI16000179	0.0041	4.1
AA068925	soil	2016	UTM83-9	527249	6852958	29-Jul-16	22.5	WHI16000179	0.0038	3.8
AA068926	soil	2016	UTM83-9	527302	6852962	29-Jul-16	17.6	WHI16000179	0.0034	3.4
AA068927	soil	2016	UTM83-9	527354	6852957	29-Jul-16	0.6	WHI16000179	0.0001	0.1
AA068928	soil	2016	UTM83-9	527398	6852958	29-Jul-16	30.5	WHI16000179	0.0042	4.2
AA068929	soil	2016	UTM83-9	527454	6852961	29-Jul-16	21	WHI16000179	0.0025	2.5
AA068930	soil	2016	UTM83-9	527499	6852958	29-Jul-16	17.7	WHI16000179	0.0031	3.1
AA068931	soil	2016	UTM83-9	527553	6852958	29-Jul-16	21.9	WHI16000179	0.0025	2.5
AA068932	soil	2016	UTM83-9	527600	6852962	29-Jul-16	8.9	WHI16000179	0.002	2
AA068933	soil	2016	UTM83-9	527655	6852957	29-Jul-16	19.4	WHI16000179	0.0014	1.4
AA068934	soil	2016	UTM83-9	527711	6852968	29-Jul-16	42.8	WHI16000179	0.0314	31.4
AA068935	soil	2016	UTM83-9	527751	6852966	29-Jul-16	76.4	WHI16000179	0.0128	12.8
AA068936	soil	2016	UTM83-9	527801	6852961	29-Jul-16	69.6	WHI16000179	0.0118	11.8
AA068937	soil	2016	UTM83-9	527851	6852961	29-Jul-16	29.2	WHI16000179	0.0041	4.1
AA068938	soil	2016	UTM83-9	527897	6852966	29-Jul-16	45.3	WHI16000179	0.0073	7.3
AA068939	soil	2016	UTM83-9	527951	6852957	29-Jul-16	168.5	WHI16000179	0.0413	41.3
AA068940	soil	2016	UTM83-9	528003	6852959	29-Jul-16	213.3	WHI16000179	0.1105	110.5
AA068941	soil	2016	UTM83-9	528048	6852956	29-Jul-16	22.5	WHI16000179	0.0028	2.8
AA068942	soil	2016	UTM83-9	528103	6852960	29-Jul-16	248.2	WHI16000179	0.043	43
AA068943	soil	2016	UTM83-9	528154	6852953	29-Jul-16	44.7	WHI16000179	0.0065	6.5
AA068944	soil	2016	UTM83-9	528202	6852962	29-Jul-16	120.5	WHI16000179	0.0135	13.5
AA068945	soil	2016	UTM83-9	528252	6852954	29-Jul-16	40.6	WHI16000179	0.0072	7.2
AA068946	soil	2016	UTM83-9	528804	6853361	30-Jul-16	42.2	WHI16000179	0.0052	5.2
AA068947	soil	2016	UTM83-9	528856	6853359	30-Jul-16	38.8	WHI16000179	0.0037	3.7
AA068948	soil	2016	UTM83-9	528905	6853360	30-Jul-16	97.5	WHI16000179	0.0158	15.8
AA068949	soil	2016	UTM83-9	528905	6853360	30-Jul-16	90.7	WHI16000179	0.0157	15.7
AA068950	soil	2016	UTM83-9	530352	6852963	28-Jul-16	10	WHI16000179	0.0007	0.7
AA068951	soil	2016	UTM83-9	527506	6852858	29-Jul-16	29.9	WHI16000179	0.0027	2.7
AA068952	soil	2016	UTM83-9	527551	6852860	29-Jul-16	20.5	WHI16000179	0.0033	3.3

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA068953	soil	2016	UTM83-9	527601	6852862	29-Jul-16	32.3	WHI16000179	0.0031	3.1
AA068954	soil	2016	UTM83-9	527600	6852864	29-Jul-16	29.7	WHI16000179	0.0025	2.5
AA068955	soil	2016	UTM83-9	527651	6852860	29-Jul-16	26.1	WHI16000179	0.0023	2.3
AA068956	soil	2016	UTM83-9	527703	6852866	29-Jul-16	28	WHI16000179	0.0028	2.8
AA068957	soil	2016	UTM83-9	527750	6852866	29-Jul-16	20.8	WHI16000179	0.0028	2.8
AA068958	soil	2016	UTM83-9	527803	6852863	29-Jul-16	29.3	WHI16000179	0.004	4
AA068959	soil	2016	UTM83-9	527847	6852863	29-Jul-16	26.6	WHI16000179	0.0117	11.7
AA068960	soil	2016	UTM83-9	527898	6852863	29-Jul-16	51	WHI16000179	0.0196	19.6
AA068961	soil	2016	UTM83-9	527942	6852855	29-Jul-16	45.5	WHI16000179	0.0123	12.3
AA068962	soil	2016	UTM83-9	528010	6852847	29-Jul-16	32.5	WHI16000179	0.0033	3.3
AA068963	soil	2016	UTM83-9	528057	6852849	29-Jul-16	44.5	WHI16000179	0.0055	5.5
AA068964	soil	2016	UTM83-9	528095	6852847	29-Jul-16	75.6	WHI16000179	0.0208	20.8
AA068965	soil	2016	UTM83-9	528150	6852854	29-Jul-16	43.7	WHI16000179	0.0015	1.5
AA068966	soil	2016	UTM83-9	528204	6852857	29-Jul-16	61.1	WHI16000179	0.0064	6.4
AA068967	soil	2016	UTM83-9	528245	6852855	29-Jul-16	17.6	WHI16000179	0.0013	1.3
AA068968	soil	2016	UTM83-9	529047	6853265	30-Jul-16	116.6	WHI16000179	0.0234	23.4
AA068969	soil	2016	UTM83-9	529103	6853265	30-Jul-16	186.6	WHI16000179	0.0327	32.7
AA068970	soil	2016	UTM83-9	529144	6853261	30-Jul-16	460.9	WHI16000179	0.0501	50.1
AA068971	soil	2016	UTM83-9	529204	6853258	30-Jul-16	474.1	WHI16000179	0.0421	42.1
AA068972	soil	2016	UTM83-9	529252	6853268	30-Jul-16	754.7	WHI16000179	0.0579	57.9
AA068973	soil	2016	UTM83-9	529306	6853259	30-Jul-16	330.7	WHI16000179	0.0431	43.1
AA068974	soil	2016	UTM83-9	529343	6853254	30-Jul-16	71.1	WHI16000179	0.0144	14.4
AA068975	soil	2016	UTM83-9	529400	6853261	30-Jul-16	41.9	WHI16000179	0.0208	20.8
AA068976	soil	2016	UTM83-9	529444	6853264	30-Jul-16	40.1	WHI16000179	0.0195	19.5
AA068977	soil	2016	UTM83-9	529502	6853258	30-Jul-16	14.3	WHI16000179	0.0023	2.3
AA068978	soil	2016	UTM83-9	529550	6853266	30-Jul-16	13.5	WHI16000179	0.002	2
AA068979	soil	2016	UTM83-9	529602	6853261	30-Jul-16	12.1	WHI16000179	0.0005	0.5
AA068980	soil	2016	UTM83-9	529663	6853261	30-Jul-16	17.8	WHI16000179	0.0046	4.6
AA068981	soil	2016	UTM83-9	529698	6853251	30-Jul-16	11.6	WHI16000179	0.0015	1.5
AA068982	soil	2016	UTM83-9	529748	6853250	30-Jul-16	17.4	WHI16000179	0.0003	0.3
AA068983	soil	2016	UTM83-9	529804	6853249	30-Jul-16	16.4	WHI16000179	0.001	1
AA068984	soil	2016	UTM83-9	529849	6853252	30-Jul-16	16.8	WHI16000179	0.0014	1.4
AA068985	soil	2016	UTM83-9	529961	6853255	30-Jul-16	10	WHI16000179	0.0007	0.7
AA068986	soil	2016	UTM83-9	529995	6853261	30-Jul-16	12	WHI16000179	0.0004	0.4
AA068987	soil	2016	UTM83-9	530059	6853260	30-Jul-16	15.2	WHI16000179	0.0018	1.8
AA068988	soil	2016	UTM83-9	530108	6853268	30-Jul-16	21.4	WHI16000179	0.0043	4.3
AA068989	soil	2016	UTM83-9	530151	6853263	30-Jul-16	11.1	WHI16000179	0.0018	1.8
AA068990	soil	2016	UTM83-9	530196	6853262	30-Jul-16	16.3	WHI16000179	0.0013	1.3
AA068991	soil	2016	UTM83-9	530197	6853268	30-Jul-16	16.8	WHI16000179	0.0022	2.2
AA068992	soil	2016	UTM83-9	530250	6853267	30-Jul-16	11.4	WHI16000179	0.002	2
AA068993	soil	2016	UTM83-9	530300	6853262	30-Jul-16	11.4	WHI16000179	0.0009	0.9
AA068994	soil	2016	UTM83-9	530344	6853262	30-Jul-16	8.3	WHI16000179	0.0011	1.1
AA068995	soil	2016	UTM83-9	530403	6853274	30-Jul-16	2.9	WHI16000179	0.0005	0.5
AA068996	soil	2016	UTM83-9	530453	6853275	30-Jul-16	5.1	WHI16000179	0.0009	0.9
AA068997	soil	2016	UTM83-9	530496	6853276	30-Jul-16	4.1	WHI16000179	0.0009	0.9
AA068998	soil	2016	UTM83-9	530547	6853277	30-Jul-16	4.7	WHI16000179	0.0003	0.3
AA068999	soil	2016	UTM83-9	530607	6853257	30-Jul-16	11.1	WHI16000179	0.0016	1.6
AA069000	soil	2016	UTM83-9	530654	6853261	30-Jul-16	13.5	WHI16000179	0.0024	2.4
AA069001	soil	2016	UTM83-9	528357	6854256	04-Aug-16	72.1	WHI16000234	0.0195	19.5
AA069002	soil	2016	UTM83-9	528304	6854263	04-Aug-16	12.4	WHI16000234	0.0008	0.8
AA069003	soil	2016	UTM83-9	528253	6854262	04-Aug-16	33.1	WHI16000234	0.0116	11.6
AA069004	soil	2016	UTM83-9	528200	6854262	04-Aug-16	14.4	WHI16000234	0.0038	3.8
AA069005	soil	2016	UTM83-9	528197	6854262	04-Aug-16	12.2	WHI16000234	0.002	2
AA069006	soil	2016	UTM83-9	528155	6854264	04-Aug-16	11.2	WHI16000234	0.0033	3.3
AA069007	soil	2016	UTM83-9	528103	6854258	04-Aug-16	33.4	WHI16000234	0.0083	8.3
AA069008	soil	2016	UTM83-9	528053	6854260	04-Aug-16	25.5	WHI16000234	0.0033	3.3
AA069009	soil	2016	UTM83-9	528003	6854266	04-Aug-16	58	WHI16000234	0.008	8
AA069034	soil	2016	UTM83-9	529599	6854854	06-Aug-16	8.2	WHI16000234	0.0021	2.1
AA069035	soil	2016	UTM83-9	529650	6854859	06-Aug-16	8.5	WHI16000234	0.0012	1.2
AA069036	soil	2016	UTM83-9	529702	6854849	06-Aug-16	10.4	WHI16000234	0.0027	2.7
AA069037	soil	2016	UTM83-9	529753	6854859	06-Aug-16	7.5	WHI16000234	0.0016	1.6

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA069038	soil	2016	UTM83-9	529802	6854856	06-Aug-16	7.7	WHI16000234	0.0014	1.4
AA069039	soil	2016	UTM83-9	529849	6854853	06-Aug-16	10	WHI16000234	0.0024	2.4
AA069040	soil	2016	UTM83-9	529849	6854853	06-Aug-16	10.1	WHI16000234	0.0012	1.2
AA069041	soil	2016	UTM83-9	529897	6854856	06-Aug-16	6.9	WHI16000235	0.0011	1.1
AA069042	soil	2016	UTM83-9	529949	6854860	06-Aug-16	8.6	WHI16000235	0.002	2
AA069043	soil	2016	UTM83-9	530013	6854857	06-Aug-16	8.7	WHI16000235	0.0006	0.6
AA069044	soil	2016	UTM83-9	530051	6854861	06-Aug-16	16.3	WHI16000235	0.0044	4.4
AA069045	soil	2016	UTM83-9	530107	6854859	06-Aug-16	11.6	WHI16000235	0.0019	1.9
AA069046	soil	2016	UTM83-9	530158	6854861	06-Aug-16	9.8	WHI16000235	0.0011	1.1
AA069047	soil	2016	UTM83-9	530205	6854862	06-Aug-16	9.1	WHI16000235	0.0018	1.8
AA069048	soil	2016	UTM83-9	530252	6854866	06-Aug-16	6.9	WHI16000235	0.0004	0.4
AA069049	soil	2016	UTM83-9	530302	6854870	06-Aug-16	4.6	WHI16000235	0.0001	0.1
AA069050	soil	2016	UTM83-9	530352	6854862	06-Aug-16	3.7	WHI16000235	0.0001	0.1
AA069051	soil	2016	UTM83-9	530100	6854763	06-Aug-16	7.4	WHI16000234	0.0002	0.2
AA069052	soil	2016	UTM83-9	530265	6854757	06-Aug-16	6.6	WHI16000234	0.0008	0.8
AA069053	soil	2016	UTM83-9	530353	6854757	06-Aug-16	6.6	WHI16000234	0.0008	0.8
AA069054	soil	2016	UTM83-9	530409	6854755	06-Aug-16	6.7	WHI16000234	0.0011	1.1
AA069055	soil	2016	UTM83-9	530488	6854759	06-Aug-16	10.2	WHI16000234	0.0013	1.3
AA069056	soil	2016	UTM83-9	530515	6854766	06-Aug-16	8.3	WHI16000234	0.0013	1.3
AA069057	soil	2016	UTM83-9	530556	6854769	06-Aug-16	9	WHI16000234	0.0014	1.4
AA069058	soil	2016	UTM83-9	530602	6854754	06-Aug-16	11.3	WHI16000234	0.002	2
AA069059	soil	2016	UTM83-9	530662	6854958	06-Aug-16	38.7	WHI16000234	0.0041	4.1
AA069060	soil	2016	UTM83-9	530620	6854960	06-Aug-16	22	WHI16000234	0.0031	3.1
AA069061	soil	2016	UTM83-9	530561	6854958	06-Aug-16	12.3	WHI16000234	0.0007	0.7
AA069062	soil	2016	UTM83-9	529564	6854768	07-Aug-16	7.3	WHI16000234	0.0018	1.8
AA069063	soil	2016	UTM83-9	529515	6854767	07-Aug-16	7.8	WHI16000234	0.0014	1.4
AA069064	soil	2016	UTM83-9	529460	6854757	07-Aug-16	7.9	WHI16000234	0.0016	1.6
AA069065	soil	2016	UTM83-9	529407	6854763	07-Aug-16	7.2	WHI16000234	0.0016	1.6
AA069066	soil	2016	UTM83-9	529363	6854765	07-Aug-16	6.6	WHI16000234	0.0006	0.6
AA069067	soil	2016	UTM83-9	529306	6854762	07-Aug-16	6.5	WHI16000234	0.002	2
AA069068	soil	2016	UTM83-9	529252	6854759	07-Aug-16	39.2	WHI16000234	0.0055	5.5
AA069069	soil	2016	UTM83-9	529205	6854759	07-Aug-16	18.4	WHI16000234	0.002	2
AA069070	soil	2016	UTM83-9	529164	6854758	07-Aug-16	24.5	WHI16000234	0.0037	3.7
AA069071	soil	2016	UTM83-9	529113	6854766	07-Aug-16	20.5	WHI16000234	0.0045	4.5
AA069072	soil	2016	UTM83-9	529062	6854760	07-Aug-16	21.7	WHI16000234	0.0036	3.6
AA069073	soil	2016	UTM83-9	529005	6854759	07-Aug-16	18.3	WHI16000234	0.0068	6.8
AA069074	soil	2016	UTM83-9	528953	6854769	07-Aug-16	27.2	WHI16000234	0.0041	4.1
AA069075	soil	2016	UTM83-9	528901	6854755	07-Aug-16	13.9	WHI16000234	0.0035	3.5
AA069076	soil	2016	UTM83-9	528860	6854762	07-Aug-16	12.3	WHI16000234	0.0037	3.7
AA069077	soil	2016	UTM83-9	528797	6854747	07-Aug-16	18.9	WHI16000234	0.0021	2.1
AA069078	soil	2016	UTM83-9	528755	6854758	07-Aug-16	12.4	WHI16000234	0.0036	3.6
AA069079	soil	2016	UTM83-9	528712	6854756	07-Aug-16	12.7	WHI16000234	0.0033	3.3
AA069080	soil	2016	UTM83-9	528646	6854756	07-Aug-16	12.3	WHI16000234	0.0037	3.7
AA069081	soil	2016	UTM83-9	528646	6854756	07-Aug-16	13.6	WHI16000234	0.0049	4.9
AA069082	soil	2016	UTM83-9	528606	6854746	07-Aug-16	30.8	WHI16000234	0.0101	10.1
AA069083	soil	2016	UTM83-9	528557	6854758	07-Aug-16	13.7	WHI16000234	0.005	5
AA069084	soil	2016	UTM83-9	528504	6854762	07-Aug-16	75.3	WHI16000234	0.0159	15.9
AA069085	soil	2016	UTM83-9	528453	6854759	07-Aug-16	35	WHI16000234	0.0209	20.9
AA069086	soil	2016	UTM83-9	528414	6854756	07-Aug-16	42.8	WHI16000234	0.0118	11.8
AA069087	soil	2016	UTM83-9	528351	6854749	07-Aug-16	17.1	WHI16000234	0.0057	5.7
AA069088	soil	2016	UTM83-9	528313	6854755	07-Aug-16	10.1	WHI16000234	0.0052	5.2
AA069089	soil	2016	UTM83-9	527149	6854755	08-Aug-16	34.3	WHI16000234	0.0471	47.1
AA069090	soil	2016	UTM83-9	527206	6854763	08-Aug-16	16.1	WHI16000234	0.035	35
AA069091	soil	2016	UTM83-9	527259	6854763	08-Aug-16	18.2	WHI16000234	0.005	5
AA069092	soil	2016	UTM83-9	527304	6854760	08-Aug-16	41.7	WHI16000234	0.0113	11.3
AA069093	soil	2016	UTM83-9	527349	6854757	08-Aug-16	34.4	WHI16000234	0.021	21
AA069094	soil	2016	UTM83-9	527398	6854758	08-Aug-16	22	WHI16000234	0.0067	6.7
AA069095	soil	2016	UTM83-9	527450	6854765	08-Aug-16	19.5	WHI16000234	0.0052	5.2
AA069096	soil	2016	UTM83-9	527504	6854756	08-Aug-16	17.4	WHI16000234	0.0029	2.9
AA069097	soil	2016	UTM83-9	527551	6854760	08-Aug-16	23.5	WHI16000234	0.0038	3.8
AA069098	soil	2016	UTM83-9	527598	6854753	08-Aug-16	38	WHI16000234	0.0036	3.6

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA069099	soil	2016	UTM83-9	527702	6854751	08-Aug-16	53.3	WHI16000234	0.0086	8.6
AA069100	soil	2016	UTM83-9	527746	6854752	08-Aug-16	21.5	WHI16000234	0.0053	5.3
AA069101	soil	2016	UTM83-9	529001	6854854	08-Aug-16	23.8	WHI16000233	0.0078	7.8
AA069102	soil	2016	UTM83-9	528953	6854858	08-Aug-16	14.6	WHI16000233	0.0025	2.5
AA069103	soil	2016	UTM83-9	528903	6854855	08-Aug-16	12.6	WHI16000233	0.0001	0.1
AA069104	soil	2016	UTM83-9	528854	6854860	08-Aug-16	14.5	WHI16000233	0.0015	1.5
AA069105	soil	2016	UTM83-9	528804	6854859	08-Aug-16	20.6	WHI16000233	0.0035	3.5
AA069106	soil	2016	UTM83-9	528750	6854859	08-Aug-16	14.9	WHI16000233	0.0022	2.2
AA069107	soil	2016	UTM83-9	528703	6854861	08-Aug-16	12.9	WHI16000233	0.002	2
AA069108	soil	2016	UTM83-9	528658	6854861	08-Aug-16	14.6	WHI16000233	0.003	3
AA069109	soil	2016	UTM83-9	528615	6854860	08-Aug-16	13.5	WHI16000233	0.004	4
AA069110	soil	2016	UTM83-9	528551	6854859	08-Aug-16	18.3	WHI16000233	0.0098	9.8
AA069111	soil	2016	UTM83-9	528504	6854857	08-Aug-16	101.9	WHI16000235	0.0375	37.5
AA069112	soil	2016	UTM83-9	528454	6854848	08-Aug-16	37	WHI16000235	0.0118	11.8
AA069113	soil	2016	UTM83-9	528413	6854856	08-Aug-16	31.7	WHI16000235	0.011	11
AA069114	soil	2016	UTM83-9	528359	6854868	08-Aug-16	65.5	WHI16000235	0.0111	11.1
AA069115	soil	2016	UTM83-9	528307	6854858	08-Aug-16	14	WHI16000235	0.0022	2.2
AA069116	soil	2016	UTM83-9	528260	6854855	08-Aug-16	13	WHI16000235	0.0033	3.3
AA069117	soil	2016	UTM83-9	528198	6854853	08-Aug-16	24.2	WHI16000235	0.0024	2.4
AA069118	soil	2016	UTM83-9	528198	6854853	08-Aug-16	22.5	WHI16000235	0.0021	2.1
AA069119	soil	2016	UTM83-9	528154	6854857	08-Aug-16	20.5	WHI16000235	0.0007	0.7
AA069120	soil	2016	UTM83-9	527261	6854346	08-Aug-16	66.1	WHI16000235	0.0153	15.3
AA069121	soil	2016	UTM83-9	527303	6854463	08-Aug-16	22.8	WHI16000235	0.0253	25.3
AA069122	soil	2016	UTM83-9	527251	6854458	08-Aug-16	19	WHI16000235	0.0033	3.3
AA069123	soil	2016	UTM83-9	527204	6854460	08-Aug-16	38.1	WHI16000235	0.0165	16.5
AA069124	soil	2016	UTM83-9	527164	6854566	08-Aug-16	27.1	WHI16000235	0.0132	13.2
AA069125	soil	2016	UTM83-9	527147	6854659	08-Aug-16	62.1	WHI16000235	0.025	25
AA069126	soil	2016	UTM83-9	527206	6854658	08-Aug-16	30	WHI16000235	0.0093	9.3
AA069127	soil	2016	UTM83-9	527253	6854657	08-Aug-16	18.3	WHI16000235	0.006	6
AA069128	soil	2016	UTM83-9	527206	6854558	08-Aug-16	22.9	WHI16000235	0.0035	3.5
AA069129	soil	2016	UTM83-9	527254	6854559	08-Aug-16	10.5	WHI16000235	0.0045	4.5
AA069130	soil	2016	UTM83-9	527304	6854559	08-Aug-16	19.3	WHI16000235	0.0018	1.8
AA069131	soil	2016	UTM83-9	527354	6854559	08-Aug-16	8.5	WHI16000235	0.0008	0.8
AA069132	soil	2016	UTM83-9	527401	6854557	08-Aug-16	69.6	WHI16000235	0.0128	12.8
AA069133	soil	2016	UTM83-9	527449	6854561	08-Aug-16	34.9	WHI16000235	0.0039	3.9
AA069134	soil	2016	UTM83-9	527507	6854558	08-Aug-16	46.8	WHI16000235	0.0523	52.3
AA069135	soil	2016	UTM83-9	527552	6854564	08-Aug-16	17.1	WHI16000235	0.0012	1.2
AA069136	soil	2016	UTM83-9	527602	6854562	08-Aug-16	9.5	WHI16000235	0.0001	0.1
AA069137	soil	2016	UTM83-9	527654	6854562	08-Aug-16	8.5	WHI16000235	0.0001	0.1
AA069138	soil	2016	UTM83-9	527701	6854563	08-Aug-16	4.5	WHI16000235	0.0004	0.4
AA069139	soil	2016	UTM83-9	527755	6854560	08-Aug-16	11.8	WHI16000235	0.0024	2.4
AA069140	soil	2016	UTM83-9	527956	6854552	08-Aug-16	9.3	WHI16000235	0.002	2
AA069141	soil	2016	UTM83-9	529303	6855169	08-Aug-16	8.7	WHI16000236	0.0023	2.3
AA069142	soil	2016	UTM83-9	529251	6855163	08-Aug-16	6.3	WHI16000236	0.0018	1.8
AA069143	soil	2016	UTM83-9	529202	6855163	08-Aug-16	12.2	WHI16000236	0.0026	2.6
AA069144	soil	2016	UTM83-9	529149	6855160	08-Aug-16	9	WHI16000236	0.002	2
AA069145	soil	2016	UTM83-9	529104	6855162	08-Aug-16	11.5	WHI16000236	0.0025	2.5
AA069146	soil	2016	UTM83-9	529054	6855161	08-Aug-16	5.8	WHI16000236	0.0014	1.4
AA069147	soil	2016	UTM83-9	529007	6855158	08-Aug-16	6.1	WHI16000236	0.001	1
AA069148	soil	2016	UTM83-9	528957	6855153	08-Aug-16	9.4	WHI16000236	0.0014	1.4
AA069149	soil	2016	UTM83-9	528902	6855153	08-Aug-16	11.6	WHI16000236	0.0009	0.9
AA069150	soil	2016	UTM83-9	528855	6855157	08-Aug-16	12	WHI16000236	0.0009	0.9
AA069151	soil	2016	UTM83-9	528909	6854467	07-Aug-16	8.5	WHI16000233	0.0006	0.6
AA069152	soil	2016	UTM83-9	528859	6854458	07-Aug-16	13.4	WHI16000233	0.0031	3.1
AA069153	soil	2016	UTM83-9	528801	6854458	07-Aug-16	15	WHI16000233	0.0024	2.4
AA069154	soil	2016	UTM83-9	528764	6854458	07-Aug-16	9.8	WHI16000233	0.0016	1.6
AA069155	soil	2016	UTM83-9	528703	6854454	07-Aug-16	22.8	WHI16000233	0.0027	2.7
AA069156	soil	2016	UTM83-9	528656	6854451	07-Aug-16	49.4	WHI16000233	0.0043	4.3
AA069157	soil	2016	UTM83-9	528587	6854449	07-Aug-16	37.8	WHI16000233	0.0117	11.7
AA069158	soil	2016	UTM83-9	528556	6854458	07-Aug-16	40.3	WHI16000233	0.0105	10.5
AA069159	soil	2016	UTM83-9	528509	6854463	07-Aug-16	26.1	WHI16000233	0.0075	7.5

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA069160	soil	2016	UTM83-9	528457	6854460	07-Aug-16	11.9	WHI16000233	0.0021	2.1
AA069161	soil	2016	UTM83-9	528409	6854450	07-Aug-16	12.9	WHI16000233	0.0017	1.7
AA069162	soil	2016	UTM83-9	528358	6854459	07-Aug-16	17.8	WHI16000233	0.0027	2.7
AA069163	soil	2016	UTM83-9	528305	6854463	07-Aug-16	4.6	WHI16000233	0.0008	0.8
AA069164	soil	2016	UTM83-9	528253	6854466	07-Aug-16	46.6	WHI16000233	0.0049	4.9
AA069165	soil	2016	UTM83-9	528253	6854466	07-Aug-16	33.7	WHI16000233	0.002	2
AA069166	soil	2016	UTM83-9	528205	6854456	07-Aug-16	5.3	WHI16000233	0.0006	0.6
AA069167	soil	2016	UTM83-9	528161	6854460	07-Aug-16	8.1	WHI16000233	0.0001	0.1
AA069168	soil	2016	UTM83-9	528107	6854465	07-Aug-16	15.1	WHI16000233	0.0009	0.9
AA069169	soil	2016	UTM83-9	528056	6854467	07-Aug-16	59.7	WHI16000233	0.0033	3.3
AA069170	soil	2016	UTM83-9	528004	6854461	07-Aug-16	52.7	WHI16000233	0.0062	6.2
AA069171	soil	2016	UTM83-9	527966	6854446	07-Aug-16	43.5	WHI16000235	0.0057	5.7
AA069172	soil	2016	UTM83-9	527905	6854457	07-Aug-16	51.5	WHI16000235	0.0056	5.6
AA069173	soil	2016	UTM83-9	527862	6854468	07-Aug-16	9	WHI16000235	0.0003	0.3
AA069174	soil	2016	UTM83-9	527809	6854452	07-Aug-16	24.6	WHI16000235	0.0029	2.9
AA069175	soil	2016	UTM83-9	527760	6854458	07-Aug-16	9.2	WHI16000235	0.0006	0.6
AA069176	soil	2016	UTM83-9	527711	6854460	07-Aug-16	14	WHI16000235	0.0012	1.2
AA069177	soil	2016	UTM83-9	527663	6854462	07-Aug-16	11.5	WHI16000235	0.0005	0.5
AA069178	soil	2016	UTM83-9	527613	6854473	07-Aug-16	11.9	WHI16000235	0.0001	0.1
AA069179	soil	2016	UTM83-9	527560	6854469	07-Aug-16	14.5	WHI16000235	0.0008	0.8
AA069180	soil	2016	UTM83-9	527504	6854461	07-Aug-16	7.2	WHI16000235	0.0004	0.4
AA069181	soil	2016	UTM83-9	527461	6854452	07-Aug-16	622.7	WHI16000235	0.0876	87.6
AA069182	soil	2016	UTM83-9	527410	6854450	07-Aug-16	77.2	WHI16000235	0.0016	1.6
AA069183	soil	2016	UTM83-9	527354	6854446	07-Aug-16	32.4	WHI16000235	0.0062	6.2
AA069184	soil	2016	UTM83-9	527052	6855071	08-Aug-16	15.3	WHI16000235	0.0054	5.4
AA069185	soil	2016	UTM83-9	527104	6855066	08-Aug-16	15.6	WHI16000235	0.0049	4.9
AA069186	soil	2016	UTM83-9	527151	6855058	08-Aug-16	8.7	WHI16000235	0.0004	0.4
AA069187	soil	2016	UTM83-9	527218	6855053	08-Aug-16	18.9	WHI16000235	0.0012	1.2
AA069188	soil	2016	UTM83-9	527256	6855049	08-Aug-16	30.8	WHI16000235	0.003	3
AA069189	soil	2016	UTM83-9	527304	6855057	08-Aug-16	18	WHI16000235	0.0011	1.1
AA069190	soil	2016	UTM83-9	527346	6855064	08-Aug-16	13.5	WHI16000235	0.0014	1.4
AA069191	soil	2016	UTM83-9	527409	6855058	08-Aug-16	37.3	WHI16000235	0.0069	6.9
AA069192	soil	2016	UTM83-9	527456	6855053	08-Aug-16	12.7	WHI16000235	0.0011	1.1
AA069193	soil	2016	UTM83-9	527498	6855059	08-Aug-16	5	WHI16000235	0.001	1
AA069194	soil	2016	UTM83-9	527552	6855056	08-Aug-16	19.8	WHI16000235	0.0037	3.7
AA069195	soil	2016	UTM83-9	527608	6855057	08-Aug-16	18.4	WHI16000235	0.0019	1.9
AA069196	soil	2016	UTM83-9	527650	6855057	08-Aug-16	17.1	WHI16000235	0.0007	0.7
AA069197	soil	2016	UTM83-9	527709	6855051	08-Aug-16	27.9	WHI16000235	0.003	3
AA069198	soil	2016	UTM83-9	527758	6855036	08-Aug-16	26.6	WHI16000235	1.3076	1307.6
AA069199	soil	2016	UTM83-9	527809	6855055	08-Aug-16	2	WHI16000235	0.0027	2.7
AA069200	soil	2016	UTM83-9	527848	6855059	08-Aug-16	4.3	WHI16000235	0.0021	2.1
AA069201	soil	2016	UTM83-9	530404	6854864	06-Aug-16	8.3	WHI16000234	0.0038	3.8
AA069202	soil	2016	UTM83-9	530458	6854867	06-Aug-16	7.7	WHI16000234	0.0017	1.7
AA069203	soil	2016	UTM83-9	530504	6854866	06-Aug-16	4.4	WHI16000234	0.0013	1.3
AA069204	soil	2016	UTM83-9	530557	6854860	06-Aug-16	10.2	WHI16000234	0.0001	0.1
AA069205	soil	2016	UTM83-9	530613	6854856	06-Aug-16	4.5	WHI16000234	0.0006	0.6
AA069206	soil	2016	UTM83-9	530657	6854855	06-Aug-16	6.7	WHI16000234	0.0016	1.6
AA069207	soil	2016	UTM83-9	530647	6854755	06-Aug-16	12.1	WHI16000234	0.003	3
AA069208	soil	2016	UTM83-9	530653	6855055	06-Aug-16	20.1	WHI16000234	0.0005	0.5
AA069209	soil	2016	UTM83-9	530602	6855056	06-Aug-16	9.3	WHI16000234	0.0095	9.5
AA069210	soil	2016	UTM83-9	530557	6855055	06-Aug-16	9.6	WHI16000234	0.0039	3.9
AA069211	soil	2016	UTM83-9	530502	6855057	06-Aug-16	8.4	WHI16000234	0.0032	3.2
AA069212	soil	2016	UTM83-9	530456	6855061	06-Aug-16	7.9	WHI16000234	0.0034	3.4
AA069213	soil	2016	UTM83-9	530402	6855058	06-Aug-16	35.8	WHI16000234	0.0015	1.5
AA069214	soil	2016	UTM83-9	530351	6855060	06-Aug-16	10.5	WHI16000234	0.0006	0.6
AA069215	soil	2016	UTM83-9	529548	6854656	07-Aug-16	10.1	WHI16000234	0.0031	3.1
AA069216	soil	2016	UTM83-9	529505	6854660	07-Aug-16	7.9	WHI16000234	0.0001	0.1
AA069217	soil	2016	UTM83-9	529452	6854661	07-Aug-16	7.5	WHI16000234	0.0014	1.4
AA069218	soil	2016	UTM83-9	529402	6854664	07-Aug-16	8.2	WHI16000234	0.0012	1.2
AA069219	soil	2016	UTM83-9	529350	6854659	07-Aug-16	8.8	WHI16000234	0.0011	1.1
AA069220	soil	2016	UTM83-9	529302	6854660	07-Aug-16	6.5	WHI16000234	0.0007	0.7

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA069221	soil	2016	UTM83-9	529256	6854661	07-Aug-16	12.1	WHI16000234	0.0014	1.4
AA069222	soil	2016	UTM83-9	529202	6854662	07-Aug-16	21.1	WHI16000234	0.0031	3.1
AA069223	soil	2016	UTM83-9	529152	6854661	07-Aug-16	20.4	WHI16000234	0.0031	3.1
AA069224	soil	2016	UTM83-9	529099	6854666	07-Aug-16	15.4	WHI16000234	0.002	2
AA069225	soil	2016	UTM83-9	529058	6854660	07-Aug-16	14.3	WHI16000234	0.0038	3.8
AA069226	soil	2016	UTM83-9	529001	6854652	07-Aug-16	15.4	WHI16000234	0.0028	2.8
AA069227	soil	2016	UTM83-9	528951	6854656	07-Aug-16	13.3	WHI16000234	0.0029	2.9
AA069228	soil	2016	UTM83-9	528899	6854658	07-Aug-16	4.3	WHI16000234	0.0003	0.3
AA069229	soil	2016	UTM83-9	528898	6854660	07-Aug-16	4	WHI16000234	0.0006	0.6
AA069230	soil	2016	UTM83-9	528853	6854653	07-Aug-16	24.1	WHI16000234	0.0033	3.3
AA069231	soil	2016	UTM83-9	528802	6854663	07-Aug-16	21.1	WHI16000234	0.003	3
AA069232	soil	2016	UTM83-9	528760	6854662	07-Aug-16	21.5	WHI16000234	0.0033	3.3
AA069233	soil	2016	UTM83-9	528702	6854653	07-Aug-16	4	WHI16000234	0.0035	3.5
AA069234	soil	2016	UTM83-9	528648	6854662	07-Aug-16	37.8	WHI16000234	0.0191	19.1
AA069235	soil	2016	UTM83-9	528599	6854661	07-Aug-16	22.9	WHI16000234	0.0101	10.1
AA069236	soil	2016	UTM83-9	528548	6854659	07-Aug-16	26.6	WHI16000234	0.0063	6.3
AA069237	soil	2016	UTM83-9	528492	6854658	07-Aug-16	51.5	WHI16000234	0.0102	10.2
AA069238	soil	2016	UTM83-9	528453	6854658	07-Aug-16	45.8	WHI16000234	0.0093	9.3
AA069239	soil	2016	UTM83-9	528402	6854661	07-Aug-16	25.8	WHI16000234	0.0046	4.6
AA069240	soil	2016	UTM83-9	528353	6854659	07-Aug-16	21.3	WHI16000234	0.005	5
AA069241	soil	2016	UTM83-9	528306	6854661	07-Aug-16	25.5	WHI16000234	0.0045	4.5
AA069242	soil	2016	UTM83-9	528249	6854663	07-Aug-16	80.2	WHI16000234	0.0122	12.2
AA069243	soil	2016	UTM83-9	528202	6854662	07-Aug-16	45	WHI16000234	0.0066	6.6
AA069244	soil	2016	UTM83-9	528151	6854663	07-Aug-16	30.9	WHI16000234	0.0069	6.9
AA069245	soil	2016	UTM83-9	528098	6854665	07-Aug-16	31	WHI16000234	0.007	7
AA069246	soil	2016	UTM83-9	528054	6854664	07-Aug-16	35.9	WHI16000234	0.0073	7.3
AA069247	soil	2016	UTM83-9	528009	6854668	07-Aug-16	17.5	WHI16000234	0.0053	5.3
AA069248	soil	2016	UTM83-9	527953	6854660	07-Aug-16	37.7	WHI16000234	0.0052	5.2
AA069249	soil	2016	UTM83-9	527903	6854658	07-Aug-16	17.6	WHI16000234	0.0049	4.9
AA069250	soil	2016	UTM83-9	527848	6854664	07-Aug-16	14.2	WHI16000234	0.0066	6.6
AA069251	soil	2016	UTM83-9	529353	6852959	11-Aug-16	13.4	WHI16000235	0.0001	0.1
AA069252	soil	2016	UTM83-9	529307	6852952	11-Aug-16	15.5	WHI16000235	0.0007	0.7
AA069253	soil	2016	UTM83-9	529267	6852953	11-Aug-16	21.9	WHI16000235	0.0042	4.2
AA069254	soil	2016	UTM83-9	529192	6852943	11-Aug-16	3.6	WHI16000235	0.0014	1.4
AA069255	soil	2016	UTM83-9	529150	6852938	11-Aug-16	6.8	WHI16000235	0.001	1
AA069256	soil	2016	UTM83-9	529106	6852937	11-Aug-16	19.7	WHI16000235	0.0016	1.6
AA069257	soil	2016	UTM83-9	529042	6852942	11-Aug-16	15.6	WHI16000235	0.0016	1.6
AA069258	soil	2016	UTM83-9	529011	6852940	11-Aug-16	23.2	WHI16000235	0.0038	3.8
AA069259	soil	2016	UTM83-9	528966	6852945	11-Aug-16	21.4	WHI16000235	0.0092	9.2
AA069260	soil	2016	UTM83-9	528898	6852956	11-Aug-16	43.1	WHI16000235	0.0136	13.6
AA069261	soil	2016	UTM83-9	528839	6852960	11-Aug-16	2866.4	WHI16000236	0.1636	163.6
AA069262	soil	2016	UTM83-9	528796	6852949	11-Aug-16	86.8	WHI16000236	0.0241	24.1
AA069263	soil	2016	UTM83-9	528748	6852952	11-Aug-16	897	WHI16000236	0.081	81
AA069264	soil	2016	UTM83-9	528706	6852951	11-Aug-16	196.1	WHI16000236	0.0305	30.5
AA069265	soil	2016	UTM83-9	528705	6852948	11-Aug-16	182	WHI16000236	0.0428	42.8
AA069266	soil	2016	UTM83-9	528650	6852945	11-Aug-16	327.8	WHI16000236	0.047	47
AA069267	soil	2016	UTM83-9	528601	6852951	11-Aug-16	88	WHI16000236	0.0169	16.9
AA069268	soil	2016	UTM83-9	528567	6852956	11-Aug-16	86.3	WHI16000236	0.0138	13.8
AA069269	soil	2016	UTM83-9	528504	6852959	11-Aug-16	53.3	WHI16000236	0.0259	25.9
AA069270	soil	2016	UTM83-9	528451	6852960	11-Aug-16	198.4	WHI16000236	0.0325	32.5
AA069271	soil	2016	UTM83-9	528404	6852955	11-Aug-16	99.1	WHI16000238	0.0258	25.8
AA069272	soil	2016	UTM83-9	528348	6852952	11-Aug-16	42.5	WHI16000238	0.0106	10.6
AA069273	soil	2016	UTM83-9	528305	6852959	11-Aug-16	34.5	WHI16000238	0.0138	13.8
AA069274	soil	2016	UTM83-9	528248	6852949	11-Aug-16	19.7	WHI16000238	0.002	2
AA069275	soil	2016	UTM83-9	527569	6857541	12-Aug-16	311.6	WHI16000238	0.0259	25.9
AA069276	soil	2016	UTM83-9	527530	6857518	12-Aug-16	257.7	WHI16000238	0.0051	5.1
AA069277	soil	2016	UTM83-9	527480	6857530	12-Aug-16	156.1	WHI16000238	0.0111	11.1
AA069278	soil	2016	UTM83-9	527421	6857521	12-Aug-16	40.3	WHI16000238	0.0043	4.3
AA069279	soil	2016	UTM83-9	527369	6857526	12-Aug-16	39.8	WHI16000238	0.0032	3.2
AA069280	soil	2016	UTM83-9	527312	6857518	12-Aug-16	128.8	WHI16000238	0.0119	11.9
AA069281	soil	2016	UTM83-9	527260	6857527	12-Aug-16	62.4	WHI16000236	0.0009	0.9

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA069282	soil	2016	UTM83-9	527224	6857529	12-Aug-16	40.2	WHI16000236	0.002	2
AA069283	soil	2016	UTM83-9	527172	6857530	12-Aug-16	81.6	WHI16000236	0.0089	8.9
AA069284	soil	2016	UTM83-9	527126	6857533	12-Aug-16	14.2	WHI16000236	0.0015	1.5
AA069285	soil	2016	UTM83-9	527077	6857537	12-Aug-16	121.3	WHI16000236	0.0018	1.8
AA069286	soil	2016	UTM83-9	527030	6857534	12-Aug-16	890.2	WHI16000236	0.0405	40.5
AA069287	soil	2016	UTM83-9	526976	6857526	12-Aug-16	48.9	WHI16000236	0.0047	4.7
AA069288	soil	2016	UTM83-9	526928	6857534	12-Aug-16	11.1	WHI16000236	0.0027	2.7
AA069289	soil	2016	UTM83-9	526881	6857543	12-Aug-16	0.6	WHI16000236	0.0015	1.5
AA069290	soil	2016	UTM83-9	526829	6857555	12-Aug-16	1.2	WHI16000236	0.0053	5.3
AA069291	soil	2016	UTM83-9	526775	6857546	12-Aug-16	0.5	WHI16000236	0.0032	3.2
AA069292	soil	2016	UTM83-9	526724	6857544	12-Aug-16	1.5	WHI16000236	0.0009	0.9
AA069293	soil	2016	UTM83-9	526678	6857538	12-Aug-16	3.1	WHI16000236	0.0084	8.4
AA069294	soil	2016	UTM83-9	526635	6857543	12-Aug-16	7.8	WHI16000236	0.0161	16.1
AA069295	soil	2016	UTM83-9	526585	6857540	12-Aug-16	0.6	WHI16000236	0.0002	0.2
AA069296	soil	2016	UTM83-9	526530	6857529	12-Aug-16	0.6	WHI16000236	0.0005	0.5
AA069297	soil	2016	UTM83-9	526464	6857524	12-Aug-16	3.6	WHI16000236	0.0012	1.2
AA069298	soil	2016	UTM83-9	526429	6857531	12-Aug-16	241.8	WHI16000236	0.0302	30.2
AA069299	soil	2016	UTM83-9	526368	6857527	12-Aug-16	21	WHI16000236	0.0018	1.8
AA069300	soil	2016	UTM83-9	526329	6857530	12-Aug-16	21.2	WHI16000236	0.0013	1.3
AA069301	soil	2016	UTM83-9	528354	6854354	07-Aug-16	30.8	WHI16000234	0.0012	1.2
AA069302	soil	2016	UTM83-9	528299	6854362	07-Aug-16	24.9	WHI16000234	0.0017	1.7
AA069303	soil	2016	UTM83-9	528251	6854359	07-Aug-16	10.2	WHI16000234	0.0001	0.1
AA069304	soil	2016	UTM83-9	528212	6854356	07-Aug-16	22.9	WHI16000234	0.0027	2.7
AA069305	soil	2016	UTM83-9	528160	6854356	07-Aug-16	14.3	WHI16000234	0.0006	0.6
AA069306	soil	2016	UTM83-9	528097	6854359	07-Aug-16	16.5	WHI16000234	0.0001	0.1
AA069307	soil	2016	UTM83-9	528054	6854360	07-Aug-16	26.7	WHI16000234	0.0017	1.7
AA069308	soil	2016	UTM83-9	528000	6854360	07-Aug-16	73.8	WHI16000234	0.002	2
AA069309	soil	2016	UTM83-9	527954	6854359	07-Aug-16	32.9	WHI16000234	0.0039	3.9
AA069310	soil	2016	UTM83-9	527905	6854356	07-Aug-16	67.9	WHI16000234	0.0138	13.8
AA069311	soil	2016	UTM83-9	527853	6854361	07-Aug-16	84.5	WHI16000234	0.0128	12.8
AA069312	soil	2016	UTM83-9	527804	6854356	07-Aug-16	46.7	WHI16000234	0.0072	7.2
AA069313	soil	2016	UTM83-9	527756	6854357	07-Aug-16	35.9	WHI16000234	0.0048	4.8
AA069314	soil	2016	UTM83-9	527707	6854362	07-Aug-16	25.7	WHI16000234	0.0023	2.3
AA069315	soil	2016	UTM83-9	527655	6854361	07-Aug-16	15.8	WHI16000234	0.0011	1.1
AA069316	soil	2016	UTM83-9	527610	6854360	07-Aug-16	11.5	WHI16000234	0.0007	0.7
AA069317	soil	2016	UTM83-9	527550	6854359	07-Aug-16	8.6	WHI16000234	0.0001	0.1
AA069318	soil	2016	UTM83-9	527499	6854356	07-Aug-16	12.6	WHI16000234	0.0005	0.5
AA069319	soil	2016	UTM83-9	527454	6854355	07-Aug-16	8.6	WHI16000234	0.0022	2.2
AA069320	soil	2016	UTM83-9	527412	6854361	07-Aug-16	84.6	WHI16000234	0.0087	8.7
AA069321	soil	2016	UTM83-9	527414	6854361	07-Aug-16	76.8	WHI16000235	0.0065	6.5
AA069322	soil	2016	UTM83-9	527355	6854358	07-Aug-16	38.1	WHI16000235	0.003	3
AA069323	soil	2016	UTM83-9	527303	6854352	07-Aug-16	33.5	WHI16000235	0.0031	3.1
AA069324	soil	2016	UTM83-9	527105	6854959	08-Aug-16	6.1	WHI16000235	0.0032	3.2
AA069325	soil	2016	UTM83-9	527154	6854958	08-Aug-16	3.3	WHI16000235	0.0001	0.1
AA069326	soil	2016	UTM83-9	527205	6854958	08-Aug-16	36.3	WHI16000235	0.0025	2.5
AA069327	soil	2016	UTM83-9	527251	6854958	08-Aug-16	12.6	WHI16000235	0.0016	1.6
AA069328	soil	2016	UTM83-9	527306	6854952	08-Aug-16	14.4	WHI16000235	0.0004	0.4
AA069329	soil	2016	UTM83-9	527347	6854950	08-Aug-16	15.4	WHI16000235	0.0005	0.5
AA069330	soil	2016	UTM83-9	527403	6854963	08-Aug-16	21	WHI16000235	0.0009	0.9
AA069331	soil	2016	UTM83-9	527451	6854960	08-Aug-16	19.4	WHI16000235	0.0016	1.6
AA069332	soil	2016	UTM83-9	527498	6854958	08-Aug-16	13.9	WHI16000235	0.0012	1.2
AA069333	soil	2016	UTM83-9	527556	6854962	08-Aug-16	15.5	WHI16000235	0.0018	1.8
AA069334	soil	2016	UTM83-9	527600	6854957	08-Aug-16	19.6	WHI16000235	0.0014	1.4
AA069335	soil	2016	UTM83-9	527653	6854957	08-Aug-16	30.1	WHI16000235	0.0038	3.8
AA069336	soil	2016	UTM83-9	527701	6854958	08-Aug-16	26.3	WHI16000235	0.0023	2.3
AA069337	soil	2016	UTM83-9	527756	6854957	08-Aug-16	22	WHI16000235	0.0041	4.1
AA069338	soil	2016	UTM83-9	527806	6854964	08-Aug-16	19.6	WHI16000235	0.0057	5.7
AA069339	soil	2016	UTM83-9	527856	6854960	08-Aug-16	34	WHI16000235	0.0126	12.6
AA069340	soil	2016	UTM83-9	527900	6854958	08-Aug-16	47.3	WHI16000235	0.0074	7.4
AA069341	soil	2016	UTM83-9	527955	6854957	08-Aug-16	32.2	WHI16000236	0.0017	1.7
AA069342	soil	2016	UTM83-9	528005	6854961	08-Aug-16	22.8	WHI16000236	0.001	1

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA069343	soil	2016	UTM83-9	528054	6854957	08-Aug-16	24.4	WHI16000236	0.0086	8.6
AA069344	soil	2016	UTM83-9	528100	6854956	08-Aug-16	22	WHI16000236	0.0014	1.4
AA069345	soil	2016	UTM83-9	528155	6854960	08-Aug-16	13.7	WHI16000236	0.0012	1.2
AA069346	soil	2016	UTM83-9	528196	6854959	08-Aug-16	11	WHI16000236	0.0007	0.7
AA069347	soil	2016	UTM83-9	528250	6854946	08-Aug-16	9.2	WHI16000236	0.0004	0.4
AA069348	soil	2016	UTM83-9	529399	6855060	09-Aug-16	6.7	WHI16000236	0.0018	1.8
AA069349	soil	2016	UTM83-9	529449	6855060	09-Aug-16	8.3	WHI16000236	0.0011	1.1
AA069350	soil	2016	UTM83-9	529502	6855054	09-Aug-16	7.3	WHI16000236	0.002	2
AA069351	soil	2016	UTM83-9	529539	6855058	09-Aug-16	11	WHI16000236	0.0046	4.6
AA069352	soil	2016	UTM83-9	529599	6855053	09-Aug-16	8.1	WHI16000236	0.003	3
AA069353	soil	2016	UTM83-9	529653	6855060	09-Aug-16	187.8	WHI16000236	0.015	15
AA069354	soil	2016	UTM83-9	529704	6855055	09-Aug-16	190.4	WHI16000236	0.0147	14.7
AA069355	soil	2016	UTM83-9	529750	6855058	09-Aug-16	56	WHI16000236	0.0078	7.8
AA069356	soil	2016	UTM83-9	529801	6855059	09-Aug-16	21.9	WHI16000236	0.0028	2.8
AA069357	soil	2016	UTM83-9	529859	6855052	09-Aug-16	5.7	WHI16000236	0.0008	0.8
AA069358	soil	2016	UTM83-9	529858	6855054	09-Aug-16	5.9	WHI16000236	0.0013	1.3
AA069359	soil	2016	UTM83-9	529901	6855057	09-Aug-16	6	WHI16000236	0.0024	2.4
AA069360	soil	2016	UTM83-9	529954	6855058	09-Aug-16	6.2	WHI16000236	0.002	2
AA069361	soil	2016	UTM83-9	530000	6855055	09-Aug-16	112.6	WHI16000235	0.0096	9.6
AA069362	soil	2016	UTM83-9	530055	6855057	09-Aug-16	31	WHI16000235	0.0073	7.3
AA069363	soil	2016	UTM83-9	530103	6855063	09-Aug-16	9.7	WHI16000235	0.0033	3.3
AA069364	soil	2016	UTM83-9	530152	6855057	09-Aug-16	66.9	WHI16000235	0.0072	7.2
AA069365	soil	2016	UTM83-9	530201	6855063	09-Aug-16	9.6	WHI16000235	0.0011	1.1
AA069366	soil	2016	UTM83-9	530253	6855059	09-Aug-16	5.7	WHI16000235	0.0003	0.3
AA069367	soil	2016	UTM83-9	530297	6855065	09-Aug-16	19.5	WHI16000235	0.0032	3.2
AA069368	soil	2016	UTM83-9	530351	6855059	09-Aug-16	9.5	WHI16000235	0.0001	0.1
AA069369	soil	2016	UTM83-9	530491	6854960	09-Aug-16	5.3	WHI16000235	0.0009	0.9
AA069370	soil	2016	UTM83-9	530454	6854952	09-Aug-16	2.2	WHI16000235	0.0008	0.8
AA069371	soil	2016	UTM83-9	530405	6854962	09-Aug-16	6.2	WHI16000238	0.0001	0.1
AA069372	soil	2016	UTM83-9	529405	6852664	11-Aug-16	4.3	WHI16000238	0.0012	1.2
AA069373	soil	2016	UTM83-9	529354	6852654	11-Aug-16	11.6	WHI16000238	0.0009	0.9
AA069374	soil	2016	UTM83-9	529321	6852652	11-Aug-16	13.2	WHI16000238	0.0022	2.2
AA069376	soil	2016	UTM83-9	529645	6854959	09-Aug-16	168	WHI16000238	0.0163	16.3
AA069377	soil	2016	UTM83-9	529696	6854961	09-Aug-16	8.9	WHI16000238	0.0043	4.3
AA069378	soil	2016	UTM83-9	529745	6854956	09-Aug-16	7.1	WHI16000238	0.0007	0.7
AA069379	soil	2016	UTM83-9	529793	6854954	09-Aug-16	8.7	WHI16000238	0.0004	0.4
AA069380	soil	2016	UTM83-9	529852	6854951	09-Aug-16	5.7	WHI16000238	0.0001	0.1
AA069381	soil	2016	UTM83-9	529908	6854960	09-Aug-16	6.4	WHI16000235	0.0012	1.2
AA069382	soil	2016	UTM83-9	529953	6854963	09-Aug-16	6.5	WHI16000235	0.0019	1.9
AA069383	soil	2016	UTM83-9	530005	6854956	09-Aug-16	6.7	WHI16000235	0.0024	2.4
AA069384	soil	2016	UTM83-9	530053	6854949	09-Aug-16	9.4	WHI16000235	0.0014	1.4
AA069385	soil	2016	UTM83-9	530104	6854954	09-Aug-16	7.6	WHI16000235	0.0026	2.6
AA069386	soil	2016	UTM83-9	530154	6854959	09-Aug-16	3.8	WHI16000235	0.0015	1.5
AA069387	soil	2016	UTM83-9	530205	6854956	09-Aug-16	10.8	WHI16000235	0.0009	0.9
AA069388	soil	2016	UTM83-9	530251	6854956	09-Aug-16	8	WHI16000235	0.001	1
AA069389	soil	2016	UTM83-9	530318	6854964	09-Aug-16	5	WHI16000235	0.0011	1.1
AA069390	soil	2016	UTM83-9	530319	6854961	09-Aug-16	5.2	WHI16000235	0.0009	0.9
AA069391	soil	2016	UTM83-9	530350	6854964	09-Aug-16	6.1	WHI16000238	0.0001	0.1
AA069392	soil	2016	UTM83-9	530598	6846208	17-Aug-16	34.4	WHI16000238	0.0001	0.1
AA069393	soil	2016	UTM83-9	530571	6846274	17-Aug-16	40.5	WHI16000238	0.0001	0.1
AA069394	soil	2016	UTM83-9	530516	6846346	17-Aug-16	18	WHI16000238	0.0001	0.1
AA069395	soil	2016	UTM83-9	530466	6846416	17-Aug-16	19.9	WHI16000238	0.0001	0.1
AA069396	soil	2016	UTM83-9	530434	6846529	17-Aug-16	382.2	WHI16000238	0.0001	0.1
AA069397	soil	2016	UTM83-9	530361	6846605	17-Aug-16	401.1	WHI16000238	0.0006	0.6
AA069398	soil	2016	UTM83-9	530323	6846677	17-Aug-16	146.6	WHI16000238	0.0001	0.1
AA069399	soil	2016	UTM83-9	530265	6846763	17-Aug-16	1243.1	WHI16000238	0.0312	31.2
AA069400	soil	2016	UTM83-9	530208	6846850	17-Aug-16	398.6	WHI16000238	0.0055	5.5
AA069401	soil	2016	UTM83-9	528153	6854556	07-Aug-16	21	WHI16000235	0.0017	1.7
AA069402	soil	2016	UTM83-9	528104	6854557	07-Aug-16	31.4	WHI16000235	0.0047	4.7
AA069403	soil	2016	UTM83-9	528057	6854555	07-Aug-16	12.7	WHI16000235	0.001	1
AA069404	soil	2016	UTM83-9	528002	6854557	07-Aug-16	25.2	WHI16000235	0.0015	1.5

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AA069405	soil	2016	UTM83-9	527100	6854861	08-Aug-16	29.1	WHI16000235	0.0035	3.5
AA069406	soil	2016	UTM83-9	527154	6854858	08-Aug-16	35.5	WHI16000235	0.0042	4.2
AA069407	soil	2016	UTM83-9	527204	6854859	08-Aug-16	39.2	WHI16000235	0.029	29
AA069408	soil	2016	UTM83-9	527251	6854858	08-Aug-16	26.5	WHI16000235	0.0078	7.8
AA069409	soil	2016	UTM83-9	527303	6854859	08-Aug-16	34.3	WHI16000235	0.0146	14.6
AA069410	soil	2016	UTM83-9	527355	6854859	08-Aug-16	27.3	WHI16000235	0.0054	5.4
AA069411	soil	2016	UTM83-9	527406	6854859	08-Aug-16	27.7	WHI16000235	0.0037	3.7
AA069412	soil	2016	UTM83-9	527454	6854857	08-Aug-16	20.4	WHI16000235	0.002	2
AA069413	soil	2016	UTM83-9	527502	6854858	08-Aug-16	12.3	WHI16000235	0.0017	1.7
AA069414	soil	2016	UTM83-9	527550	6854860	08-Aug-16	25.5	WHI16000235	0.0025	2.5
AA069415	soil	2016	UTM83-9	527601	6854861	08-Aug-16	21.5	WHI16000235	0.0018	1.8
AA069416	soil	2016	UTM83-9	527652	6854860	08-Aug-16	35.9	WHI16000235	0.0065	6.5
AA069417	soil	2016	UTM83-9	527703	6854859	08-Aug-16	24.1	WHI16000235	0.0037	3.7
AA069418	soil	2016	UTM83-9	527751	6854860	08-Aug-16	16.1	WHI16000235	0.016	16
AA069419	soil	2016	UTM83-9	527800	6854861	08-Aug-16	23.3	WHI16000235	0.0021	2.1
AA069420	soil	2016	UTM83-9	527857	6854857	08-Aug-16	51.9	WHI16000235	0.0039	3.9
AA069421	soil	2016	UTM83-9	527905	6854853	08-Aug-16	25.3	WHI16000238	0.0044	4.4
AA069422	soil	2016	UTM83-9	527954	6854858	08-Aug-16	45.4	WHI16000238	0.005	5
AA069423	soil	2016	UTM83-9	528006	6854860	08-Aug-16	53.3	WHI16000238	0.0079	7.9
AA069424	soil	2016	UTM83-9	528053	6854863	08-Aug-16	29.7	WHI16000238	0.0071	7.1
AA069425	soil	2016	UTM83-9	528099	6854854	08-Aug-16	40.2	WHI16000238	0.0039	3.9
AA069426	soil	2016	UTM83-9	529303	6854960	09-Aug-16	19.5	WHI16000238	0.0042	4.2
AA069427	soil	2016	UTM83-9	529354	6854955	09-Aug-16	13.1	WHI16000238	0.0055	5.5
AA069428	soil	2016	UTM83-9	529356	6854956	09-Aug-16	13.2	WHI16000238	0.0087	8.7
AA069429	soil	2016	UTM83-9	529103	6854967	09-Aug-16	10.6	WHI16000238	0.0024	2.4
AA069430	soil	2016	UTM83-9	529055	6854960	09-Aug-16	16.4	WHI16000238	0.0031	3.1
AA069431	soil	2016	UTM83-9	529006	6854954	09-Aug-16	16.5	WHI16000235	0.0011	1.1
AA069432	soil	2016	UTM83-9	528953	6854962	09-Aug-16	29.7	WHI16000235	0.0062	6.2
AA069433	soil	2016	UTM83-9	528903	6854964	09-Aug-16	40.6	WHI16000235	0.0059	5.9
AA069434	soil	2016	UTM83-9	528853	6854961	09-Aug-16	13	WHI16000235	0.0012	1.2
AA069435	soil	2016	UTM83-9	528806	6854958	09-Aug-16	14	WHI16000235	0.0051	5.1
AA069436	soil	2016	UTM83-9	528751	6854960	09-Aug-16	14.2	WHI16000235	0.003	3
AA069437	soil	2016	UTM83-9	528703	6854958	09-Aug-16	15.1	WHI16000235	0.0035	3.5
AA069438	soil	2016	UTM83-9	528651	6854958	09-Aug-16	13.5	WHI16000235	0.0036	3.6
AA069439	soil	2016	UTM83-9	528602	6854952	09-Aug-16	29.4	WHI16000235	0.0081	8.1
AA069440	soil	2016	UTM83-9	528555	6854958	09-Aug-16	108.2	WHI16000235	0.0267	26.7
AA069441	soil	2016	UTM83-9	528501	6854952	09-Aug-16	39.4	WHI16000235	0.006	6
AA069442	soil	2016	UTM83-9	528457	6854958	09-Aug-16	16.2	WHI16000235	0.0045	4.5
AA069443	soil	2016	UTM83-9	528401	6854955	09-Aug-16	18.3	WHI16000235	0.0037	3.7
AA069444	soil	2016	UTM83-9	528354	6854954	09-Aug-16	24.4	WHI16000235	0.0581	58.1
AA069445	soil	2016	UTM83-9	528303	6854962	09-Aug-16	41.1	WHI16000235	0.0065	6.5
AA069446	soil	2016	UTM83-9	529254	6852758	11-Aug-16	21.7	WHI16000235	0.0032	3.2
AA069447	soil	2016	UTM83-9	529206	6852760	11-Aug-16	11.2	WHI16000235	0.0026	2.6
AA069448	soil	2016	UTM83-9	529160	6852760	11-Aug-16	5.9	WHI16000235	0.0015	1.5
AA069449	soil	2016	UTM83-9	529101	6852754	11-Aug-16	17.6	WHI16000235	0.0043	4.3
AA069450	soil	2016	UTM83-9	529056	6852759	11-Aug-16	18.1	WHI16000235	0.0039	3.9
AA069451	soil	2016	UTM83-9	527809	6854663	07-Aug-16	25.7	WHI16000235	0.0069	6.9
AA069452	soil	2016	UTM83-9	527756	6854665	07-Aug-16	3.3	WHI16000235	0.0018	1.8
AA069453	soil	2016	UTM83-9	527709	6854658	07-Aug-16	6	WHI16000235	0.0027	2.7
AA069454	soil	2016	UTM83-9	527651	6854661	07-Aug-16	42.1	WHI16000235	0.0035	3.5
AA069455	soil	2016	UTM83-9	527604	6854660	07-Aug-16	41.3	WHI16000235	0.0021	2.1
AA069456	soil	2016	UTM83-9	527553	6854659	07-Aug-16	54.3	WHI16000235	0.0107	10.7
AA069457	soil	2016	UTM83-9	527507	6854661	07-Aug-16	26.3	WHI16000235	0.0021	2.1
AA069458	soil	2016	UTM83-9	527450	6854656	07-Aug-16	25.2	WHI16000235	0.01	10
AA069459	soil	2016	UTM83-9	527404	6854657	07-Aug-16	13.4	WHI16000235	0.0005	0.5
AA069460	soil	2016	UTM83-9	527356	6854657	07-Aug-16	22.7	WHI16000235	0.0041	4.1
AA069461	soil	2016	UTM83-9	527309	6854661	07-Aug-16	14.2	WHI16000235	0.0007	0.7
AA069462	soil	2016	UTM83-9	527801	6854554	07-Aug-16	9.8	WHI16000235	0.0021	2.1
AA069463	soil	2016	UTM83-9	527853	6854554	07-Aug-16	16.4	WHI16000235	0.003	3
AA069464	soil	2016	UTM83-9	527903	6854557	07-Aug-16	63.1	WHI16000235	0.0092	9.2
AA069465	soil	2016	UTM83-9	527103	6855163	08-Aug-16	20.4	WHI16000235	0.0049	4.9

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA069466	soil	2016	UTM83-9	527151	6855159	08-Aug-16	30.4	WHI16000235	0.0025	2.5
AA069467	soil	2016	UTM83-9	527204	6855159	08-Aug-16	25.8	WHI16000235	0.0023	2.3
AA069468	soil	2016	UTM83-9	527205	6855162	08-Aug-16	23.1	WHI16000235	0.0019	1.9
AA069469	soil	2016	UTM83-9	527247	6855163	08-Aug-16	28.5	WHI16000235	0.001	1
AA069470	soil	2016	UTM83-9	527302	6855163	08-Aug-16	12	WHI16000235	0.0066	6.6
AA069471	soil	2016	UTM83-9	527348	6855156	08-Aug-16	26.9	WHI16000235	0.0075	7.5
AA069472	soil	2016	UTM83-9	527399	6855155	08-Aug-16	28.3	WHI16000235	0.0295	29.5
AA069473	soil	2016	UTM83-9	527455	6855157	08-Aug-16	28.2	WHI16000235	0.0029	2.9
AA069474	soil	2016	UTM83-9	527497	6855155	08-Aug-16	39.3	WHI16000235	0.0044	4.4
AA069475	soil	2016	UTM83-9	527553	6855155	08-Aug-16	14.7	WHI16000235	0.0007	0.7
AA069476	soil	2016	UTM83-9	527603	6855154	08-Aug-16	18.9	WHI16000235	0.0023	2.3
AA069477	soil	2016	UTM83-9	527649	6855152	08-Aug-16	27.3	WHI16000235	0.0035	3.5
AA069478	soil	2016	UTM83-9	527700	6855152	08-Aug-16	17.9	WHI16000235	0.001	1
AA069479	soil	2016	UTM83-9	527755	6855159	08-Aug-16	46.7	WHI16000235	0.0016	1.6
AA069480	soil	2016	UTM83-9	527802	6855153	08-Aug-16	1.5	WHI16000235	0.0021	2.1
AA069481	soil	2016	UTM83-9	527857	6855160	08-Aug-16	12.7	WHI16000235	0.0023	2.3
AA069482	soil	2016	UTM83-9	527906	6855164	08-Aug-16	35.3	WHI16000235	0.0006	0.6
AA069483	soil	2016	UTM83-9	527952	6855158	08-Aug-16	20.4	WHI16000235	0.0026	2.6
AA069484	soil	2016	UTM83-9	528001	6855158	08-Aug-16	21.5	WHI16000235	0.0026	2.6
AA069485	soil	2016	UTM83-9	528047	6855155	08-Aug-16	10.8	WHI16000235	0.0011	1.1
AA069486	soil	2016	UTM83-9	528098	6855158	08-Aug-16	13.9	WHI16000235	0.0018	1.8
AA069487	soil	2016	UTM83-9	528146	6855161	08-Aug-16	15.3	WHI16000235	0.0107	10.7
AA069488	soil	2016	UTM83-9	528201	6855160	08-Aug-16	14.5	WHI16000235	0.004	4
AA069489	soil	2016	UTM83-9	529348	6855164	09-Aug-16	7.4	WHI16000235	0.002	2
AA069490	soil	2016	UTM83-9	529403	6855158	09-Aug-16	7.9	WHI16000235	0.003	3
AA069491	soil	2016	UTM83-9	529448	6855158	09-Aug-16	11.1	WHI16000236	0.0023	2.3
AA069492	soil	2016	UTM83-9	529499	6855160	09-Aug-16	8.8	WHI16000236	0.0021	2.1
AA069493	soil	2016	UTM83-9	529551	6855165	09-Aug-16	4.4	WHI16000236	0.0021	2.1
AA069494	soil	2016	UTM83-9	529601	6855156	09-Aug-16	2.8	WHI16000236	0.0009	0.9
AA069495	soil	2016	UTM83-9	529651	6855161	09-Aug-16	7	WHI16000236	0.0017	1.7
AA069496	soil	2016	UTM83-9	529700	6855155	09-Aug-16	9.1	WHI16000236	0.002	2
AA069497	soil	2016	UTM83-9	529752	6855158	09-Aug-16	5.9	WHI16000236	0.0009	0.9
AA069498	soil	2016	UTM83-9	529800	6855155	09-Aug-16	5	WHI16000236	0.0006	0.6
AA069499	soil	2016	UTM83-9	529851	6855161	09-Aug-16	319.7	WHI16000236	0.0139	13.9
AA069500	soil	2016	UTM83-9	529906	6855155	09-Aug-16	36.5	WHI16000236	0.0049	4.9
AA069501	soil	2016	UTM83-9	529797	6853054	30-Jul-16	17.2	WHI16000180	0.0006	0.6
AA069502	soil	2016	UTM83-9	529857	6853049	30-Jul-16	20.9	WHI16000180	0.0012	1.2
AA069503	soil	2016	UTM83-9	529897	6853056	30-Jul-16	15.2	WHI16000180	0.0012	1.2
AA069504	soil	2016	UTM83-9	529947	6853060	30-Jul-16	10.9	WHI16000180	0.0005	0.5
AA069505	soil	2016	UTM83-9	530002	6853060	30-Jul-16	13.1	WHI16000180	0.0016	1.6
AA069506	soil	2016	UTM83-9	530052	6853052	30-Jul-16	10.9	WHI16000180	0.001	1
AA069507	soil	2016	UTM83-9	530102	6853052	30-Jul-16	17.4	WHI16000180	0.0013	1.3
AA069508	soil	2016	UTM83-9	530151	6853063	30-Jul-16	13.8	WHI16000180	0.0009	0.9
AA069509	soil	2016	UTM83-9	530203	6853065	30-Jul-16	8	WHI16000180	0.0007	0.7
AA069510	soil	2016	UTM83-9	530251	6853072	30-Jul-16	13.9	WHI16000180	0.0014	1.4
AA069511	soil	2016	UTM83-9	530301	6853069	30-Jul-16	12.4	WHI16000180	0.0011	1.1
AA069512	soil	2016	UTM83-9	530351	6853059	30-Jul-16	7.8	WHI16000180	0.0013	1.3
AA069513	soil	2016	UTM83-9	530398	6853060	30-Jul-16	8.7	WHI16000180	0.0017	1.7
AA069514	soil	2016	UTM83-9	530449	6853066	30-Jul-16	6.4	WHI16000180	0.0007	0.7
AA069515	soil	2016	UTM83-9	530496	6853059	30-Jul-16	5.7	WHI16000180	0.0016	1.6
AA069516	soil	2016	UTM83-9	530545	6853063	30-Jul-16	8.2	WHI16000180	0.0029	2.9
AA069517	soil	2016	UTM83-9	529001	6853059	31-Jul-16	35.6	WHI16000180	0.0175	17.5
AA069518	soil	2016	UTM83-9	528960	6853060	31-Jul-16	208.4	WHI16000180	0.0343	34.3
AA069519	soil	2016	UTM83-9	528855	6853060	31-Jul-16	N/A	WHI16000180	N/A	N/A
AA069520	soil	2016	UTM83-9	528810	6853053	31-Jul-16	249.3	WHI16000180	0.1073	107.3
AA069521	soil	2016	UTM83-9	528752	6853053	31-Jul-16	75.5	WHI16000180	0.0245	24.5
AA069522	soil	2016	UTM83-9	528711	6853058	31-Jul-16	59.9	WHI16000180	0.0206	20.6
AA069523	soil	2016	UTM83-9	528655	6853060	31-Jul-16	155.2	WHI16000180	0.0333	33.3
AA069524	soil	2016	UTM83-9	528607	6853060	31-Jul-16	54.3	WHI16000180	0.0224	22.4
AA069525	soil	2016	UTM83-9	528556	6853062	31-Jul-16	79.8	WHI16000180	0.0091	9.1
AA069526	soil	2016	UTM83-9	528553	6853061	31-Jul-16	84.4	WHI16000180	0.0094	9.4

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA069527	soil	2016	UTM83-9	528509	6853061	31-Jul-16	1299	WHI16000180	0.3766	376.6
AA069528	soil	2016	UTM83-9	528457	6853060	31-Jul-16	85.6	WHI16000180	0.019	19
AA069529	soil	2016	UTM83-9	528411	6853063	31-Jul-16	149.9	WHI16000180	0.0457	45.7
AA069530	soil	2016	UTM83-9	528356	6853064	31-Jul-16	96.4	WHI16000180	0.0241	24.1
AA069531	soil	2016	UTM83-9	528304	6853057	31-Jul-16	82.5	WHI16000180	0.0087	8.7
AA069532	soil	2016	UTM83-9	528261	6853056	31-Jul-16	67.1	WHI16000180	0.0305	30.5
AA069533	soil	2016	UTM83-9	528210	6853057	31-Jul-16	27.3	WHI16000180	0.0048	4.8
AA069534	soil	2016	UTM83-9	528161	6853059	31-Jul-16	24.5	WHI16000180	0.0025	2.5
AA069535	soil	2016	UTM83-9	528107	6853059	31-Jul-16	47.1	WHI16000180	0.0069	6.9
AA069536	soil	2016	UTM83-9	528011	6853054	31-Jul-16	177.7	WHI16000180	0.0496	49.6
AA069537	soil	2016	UTM83-9	528043	6853060	31-Jul-16	26.4	WHI16000180	0.0024	2.4
AA069538	soil	2016	UTM83-9	527959	6853065	31-Jul-16	397.5	WHI16000180	0.1267	126.7
AA069539	soil	2016	UTM83-9	527912	6853063	31-Jul-16	29.8	WHI16000180	0.0057	5.7
AA069540	soil	2016	UTM83-9	527857	6853059	31-Jul-16	37.5	WHI16000180	0.0086	8.6
AA069541	soil	2016	UTM83-9	527809	6853059	31-Jul-16	32.1	WHI16000181	0.0057	5.7
AA069542	soil	2016	UTM83-9	527759	6853056	31-Jul-16	29.2	WHI16000181	0.0089	8.9
AA069543	soil	2016	UTM83-9	527711	6853057	31-Jul-16	36.8	WHI16000181	0.0088	8.8
AA069544	soil	2016	UTM83-9	527655	6853057	31-Jul-16	59.6	WHI16000181	0.0148	14.8
AA069545	soil	2016	UTM83-9	527607	6853057	31-Jul-16	32.9	WHI16000181	0.0056	5.6
AA069546	soil	2016	UTM83-9	527562	6853059	31-Jul-16	28.1	WHI16000181	0.0061	6.1
AA069547	soil	2016	UTM83-9	527505	6853057	31-Jul-16	45.1	WHI16000181	0.0167	16.7
AA069548	soil	2016	UTM83-9	527454	6853056	31-Jul-16	43.2	WHI16000181	0.0143	14.3
AA069549	soil	2016	UTM83-9	527403	6853054	31-Jul-16	17.1	WHI16000181	0.0038	3.8
AA069550	soil	2016	UTM83-9	527351	6853053	31-Jul-16	35	WHI16000181	0.008	8
AA069551	soil	2016	UTM83-9	528955	6853363	30-Jul-16	65.7	WHI16000180	0.0073	7.3
AA069552	soil	2016	UTM83-9	529007	6853360	30-Jul-16	53.9	WHI16000180	0.0107	10.7
AA069553	soil	2016	UTM83-9	529054	6853363	30-Jul-16	83.2	WHI16000180	0.014	14
AA069554	soil	2016	UTM83-9	529100	6853368	30-Jul-16	46.6	WHI16000180	0.0036	3.6
AA069555	soil	2016	UTM83-9	529156	6853360	30-Jul-16	125.3	WHI16000180	0.0241	24.1
AA069556	soil	2016	UTM83-9	529205	6853365	30-Jul-16	941	WHI16000180	0.0909	90.9
AA069557	soil	2016	UTM83-9	529248	6853360	30-Jul-16	1012.8	WHI16000180	0.3318	331.8
AA069558	soil	2016	UTM83-9	529306	6853370	30-Jul-16	335.9	WHI16000180	0.0342	34.2
AA069559	soil	2016	UTM83-9	529354	6853360	30-Jul-16	160.5	WHI16000180	0.0141	14.1
AA069560	soil	2016	UTM83-9	529402	6853357	30-Jul-16	701.2	WHI16000180	0.1354	135.4
AA069561	soil	2016	UTM83-9	529451	6853357	30-Jul-16	291.6	WHI16000180	0.055	55
AA069562	soil	2016	UTM83-9	529502	6853359	30-Jul-16	1786.8	WHI16000180	0.2443	244.3
AA069563	soil	2016	UTM83-9	529557	6853357	30-Jul-16	50.6	WHI16000180	0.0067	6.7
AA069564	soil	2016	UTM83-9	529598	6853357	30-Jul-16	104.6	WHI16000180	0.0141	14.1
AA069565	soil	2016	UTM83-9	529660	6853353	30-Jul-16	23.4	WHI16000180	0.0031	3.1
AA069566	soil	2016	UTM83-9	529699	6853361	30-Jul-16	10.5	WHI16000180	0.0009	0.9
AA069567	soil	2016	UTM83-9	529754	6853356	30-Jul-16	16.2	WHI16000180	0.0016	1.6
AA069568	soil	2016	UTM83-9	529804	6853357	30-Jul-16	25.3	WHI16000180	0.0035	3.5
AA069569	soil	2016	UTM83-9	529857	6853353	30-Jul-16	17.7	WHI16000180	0.002	2
AA069570	soil	2016	UTM83-9	529901	6853353	30-Jul-16	21.2	WHI16000180	0.0023	2.3
AA069571	soil	2016	UTM83-9	529948	6853360	30-Jul-16	13.5	WHI16000180	0.0006	0.6
AA069572	soil	2016	UTM83-9	530006	6853362	30-Jul-16	24.3	WHI16000180	0.0057	5.7
AA069573	soil	2016	UTM83-9	530056	6853360	30-Jul-16	34.6	WHI16000180	0.0018	1.8
AA069574	soil	2016	UTM83-9	530100	6853362	30-Jul-16	22.6	WHI16000180	0.0009	0.9
AA069575	soil	2016	UTM83-9	530155	6853365	30-Jul-16	37	WHI16000180	0.0001	0.1
AA069576	soil	2016	UTM83-9	530207	6853358	30-Jul-16	38.6	WHI16000180	0.0059	5.9
AA069577	soil	2016	UTM83-9	530256	6853358	30-Jul-16	17.6	WHI16000180	0.0034	3.4
AA069578	soil	2016	UTM83-9	530302	6853371	30-Jul-16	9.7	WHI16000180	0.0052	5.2
AA069579	soil	2016	UTM83-9	530348	6853366	30-Jul-16	4.5	WHI16000180	0.0001	0.1
AA069580	soil	2016	UTM83-9	530400	6853365	30-Jul-16	4.2	WHI16000180	0.0027	2.7
AA069581	soil	2016	UTM83-9	530455	6853362	30-Jul-16	3.9	WHI16000180	0.0004	0.4
AA069582	soil	2016	UTM83-9	530510	6853358	30-Jul-16	7.9	WHI16000180	0.002	2
AA069583	soil	2016	UTM83-9	530551	6853358	30-Jul-16	4.7	WHI16000180	0.0011	1.1
AA069584	soil	2016	UTM83-9	530593	6853370	30-Jul-16	5.5	WHI16000180	0.0011	1.1
AA069585	soil	2016	UTM83-9	530659	6853369	30-Jul-16	10.3	WHI16000180	0.0014	1.4
AA069586	soil	2016	UTM83-9	528759	6853366	31-Jul-16	33	WHI16000180	0.0049	4.9
AA069587	soil	2016	UTM83-9	528709	6853349	31-Jul-16	32.7	WHI16000180	0.0078	7.8

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA069588	soil	2016	UTM83-9	528653	6853360	31-Jul-16	31.2	WHI16000180	0.0023	2.3
AA069589	soil	2016	UTM83-9	528604	6853359	31-Jul-16	1272.8	WHI16000180	0.2848	284.8
AA069590	soil	2016	UTM83-9	528604	6853359	31-Jul-16	1463.1	WHI16000180	0.7718	771.8
AA069591	soil	2016	UTM83-9	528550	6853362	31-Jul-16	43.4	WHI16000181	0.0068	6.8
AA069592	soil	2016	UTM83-9	528498	6853362	31-Jul-16	24.4	WHI16000181	0.0064	6.4
AA069593	soil	2016	UTM83-9	528453	6853360	31-Jul-16	11	WHI16000181	0.001	1
AA069594	soil	2016	UTM83-9	528398	6853364	31-Jul-16	3.2	WHI16000181	0.0012	1.2
AA069595	soil	2016	UTM83-9	528354	6853363	31-Jul-16	29.4	WHI16000181	0.0023	2.3
AA069596	soil	2016	UTM83-9	528303	6853361	31-Jul-16	65.7	WHI16000181	0.0051	5.1
AA069597	soil	2016	UTM83-9	528255	6853357	31-Jul-16	34.7	WHI16000181	0.0035	3.5
AA069598	soil	2016	UTM83-9	528206	6853357	31-Jul-16	51.2	WHI16000181	0.0097	9.7
AA069599	soil	2016	UTM83-9	528150	6853363	31-Jul-16	12	WHI16000181	0.0012	1.2
AA069600	soil	2016	UTM83-9	528101	6853362	31-Jul-16	49.1	WHI16000181	0.0108	10.8
AA069601	soil	2016	UTM83-9	527309	6853055	31-Jul-16	23.4	WHI16000181	0.0068	6.8
AA069602	soil	2016	UTM83-9	527257	6853055	31-Jul-16	34.3	WHI16000181	0.0034	3.4
AA069603	soil	2016	UTM83-9	527211	6853057	31-Jul-16	39.9	WHI16000181	0.007	7
AA069604	soil	2016	UTM83-9	528956	6853464	01-Aug-16	80.5	WHI16000181	0.0163	16.3
AA069605	soil	2016	UTM83-9	529000	6853441	01-Aug-16	75.7	WHI16000181	0.01	10
AA069606	soil	2016	UTM83-9	529046	6853454	01-Aug-16	171	WHI16000181	0.0174	17.4
AA069607	soil	2016	UTM83-9	529104	6853461	01-Aug-16	206.5	WHI16000181	0.0375	37.5
AA069608	soil	2016	UTM83-9	529144	6853463	01-Aug-16	74.7	WHI16000181	0.0064	6.4
AA069609	soil	2016	UTM83-9	529198	6853456	01-Aug-16	44.1	WHI16000181	0.0012	1.2
AA069610	soil	2016	UTM83-9	529254	6853460	01-Aug-16	213.8	WHI16000181	0.0251	25.1
AA069611	soil	2016	UTM83-9	529301	6853469	01-Aug-16	180.4	WHI16000181	0.0324	32.4
AA069612	soil	2016	UTM83-9	529352	6853460	01-Aug-16	102.6	WHI16000181	0.0021	2.1
AA069613	soil	2016	UTM83-9	529405	6853459	01-Aug-16	435.1	WHI16000181	0.0452	45.2
AA069614	soil	2016	UTM83-9	529454	6853467	01-Aug-16	140.3	WHI16000181	0.0157	15.7
AA069615	soil	2016	UTM83-9	529651	6853455	01-Aug-16	52.5	WHI16000181	0.0029	2.9
AA069616	soil	2016	UTM83-9	529651	6853455	01-Aug-16	65.6	WHI16000181	0.0027	2.7
AA069617	soil	2016	UTM83-9	529699	6853454	01-Aug-16	11.1	WHI16000181	0.002	2
AA069618	soil	2016	UTM83-9	529753	6853461	01-Aug-16	37.3	WHI16000181	0.0043	4.3
AA069619	soil	2016	UTM83-9	529805	6853461	01-Aug-16	17.3	WHI16000181	0.0016	1.6
AA069620	soil	2016	UTM83-9	529852	6853454	01-Aug-16	21.8	WHI16000181	0.0018	1.8
AA069621	soil	2016	UTM83-9	529904	6853455	01-Aug-16	39.9	WHI16000181	0.0119	11.9
AA069622	soil	2016	UTM83-9	529953	6853464	01-Aug-16	62.4	WHI16000181	0.0034	3.4
AA069623	soil	2016	UTM83-9	529601	6853458	01-Aug-16	48.4	WHI16000181	0.0216	21.6
AA069624	soil	2016	UTM83-9	529552	6853457	01-Aug-16	23.9	WHI16000181	0.0035	3.5
AA069625	soil	2016	UTM83-9	529501	6853457	01-Aug-16	243.1	WHI16000181	0.0215	21.5
AA069626	soil	2016	UTM83-9	529995	6853463	01-Aug-16	82	WHI16000181	0.004	4
AA069627	soil	2016	UTM83-9	530050	6853463	01-Aug-16	27.6	WHI16000181	0.0048	4.8
AA069628	soil	2016	UTM83-9	530103	6853461	01-Aug-16	23	WHI16000181	0.0041	4.1
AA069629	soil	2016	UTM83-9	530151	6853468	01-Aug-16	23.8	WHI16000181	0.0012	1.2
AA069630	soil	2016	UTM83-9	530201	6853466	01-Aug-16	22	WHI16000181	0.0018	1.8
AA069631	soil	2016	UTM83-9	530258	6853463	01-Aug-16	14.4	WHI16000181	0.0009	0.9
AA069632	soil	2016	UTM83-9	530300	6853456	01-Aug-16	7.7	WHI16000181	0.0004	0.4
AA069633	soil	2016	UTM83-9	530349	6853464	01-Aug-16	1.5	WHI16000181	0.0001	0.1
AA069634	soil	2016	UTM83-9	530398	6853459	01-Aug-16	146.7	WHI16000181	0.0561	56.1
AA069635	soil	2016	UTM83-9	530450	6853461	01-Aug-16	61	WHI16000181	0.0189	18.9
AA069636	soil	2016	UTM83-9	530502	6853462	01-Aug-16	5.6	WHI16000181	0.0013	1.3
AA069637	soil	2016	UTM83-9	530552	6853464	01-Aug-16	48.8	WHI16000181	0.0206	20.6
AA069638	soil	2016	UTM83-9	530604	6853460	01-Aug-16	14.4	WHI16000181	0.0045	4.5
AA069639	soil	2016	UTM83-9	530643	6853458	01-Aug-16	206.6	WHI16000181	0.0538	53.8
AA069640	soil	2016	UTM83-9	528896	6853462	02-Aug-16	26.9	WHI16000181	0.0036	3.6
AA069641	soil	2016	UTM83-9	528858	6853455	02-Aug-16	29.4	WHI16000180	0.0046	4.6
AA069642	soil	2016	UTM83-9	528802	6853453	02-Aug-16	40.1	WHI16000180	0.0026	2.6
AA069643	soil	2016	UTM83-9	528764	6853457	02-Aug-16	19.7	WHI16000180	0.0041	4.1
AA069644	soil	2016	UTM83-9	528705	6853458	02-Aug-16	53.5	WHI16000180	0.0035	3.5
AA069645	soil	2016	UTM83-9	528648	6853464	02-Aug-16	151.2	WHI16000180	0.0513	51.3
AA069646	soil	2016	UTM83-9	528603	6853460	02-Aug-16	31.4	WHI16000180	0.0033	3.3
AA069647	soil	2016	UTM83-9	528552	6853463	02-Aug-16	38.9	WHI16000180	0.0106	10.6
AA069648	soil	2016	UTM83-9	528500	6853454	02-Aug-16	73.2	WHI16000180	0.005	5

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA069649	soil	2016	UTM83-9	528451	6853462	02-Aug-16	38.2	WHI16000180	0.0018	1.8
AA069650	soil	2016	UTM83-9	528407	6853458	02-Aug-16	43	WHI16000180	0.0044	4.4
AA069651	soil	2016	UTM83-9	528801	6853159	02-Aug-16	675.9	WHI16000181	0.0768	76.8
AA069652	soil	2016	UTM83-9	528757	6853160	02-Aug-16	149.6	WHI16000181	0.016	16
AA069653	soil	2016	UTM83-9	528703	6853160	02-Aug-16	162.4	WHI16000181	0.0607	60.7
AA069654	soil	2016	UTM83-9	528654	6853156	02-Aug-16	87.3	WHI16000181	0.0203	20.3
AA069655	soil	2016	UTM83-9	528604	6853158	02-Aug-16	83	WHI16000181	0.0108	10.8
AA069656	soil	2016	UTM83-9	528554	6853161	02-Aug-16	54.5	WHI16000181	0.0161	16.1
AA069657	soil	2016	UTM83-9	528502	6853157	02-Aug-16	165.6	WHI16000181	0.0285	28.5
AA069658	soil	2016	UTM83-9	528455	6853161	02-Aug-16	125.8	WHI16000181	0.0349	34.9
AA069659	soil	2016	UTM83-9	528406	6853161	02-Aug-16	120.3	WHI16000181	0.0075	7.5
AA069660	soil	2016	UTM83-9	528354	6853155	02-Aug-16	100.4	WHI16000181	0.0192	19.2
AA069661	soil	2016	UTM83-9	528305	6853157	02-Aug-16	59.1	WHI16000181	0.0269	26.9
AA069662	soil	2016	UTM83-9	528258	6853160	02-Aug-16	67.4	WHI16000181	0.0064	6.4
AA069663	soil	2016	UTM83-9	528203	6853164	02-Aug-16	48.1	WHI16000181	0.0079	7.9
AA069664	soil	2016	UTM83-9	528156	6853164	02-Aug-16	42.6	WHI16000181	0.0062	6.2
AA069665	soil	2016	UTM83-9	528102	6853159	02-Aug-16	41.7	WHI16000181	0.0062	6.2
AA069666	soil	2016	UTM83-9	528049	6853159	02-Aug-16	241.5	WHI16000181	0.0378	37.8
AA069667	soil	2016	UTM83-9	528002	6853158	02-Aug-16	117.3	WHI16000181	0.0197	19.7
AA069668	soil	2016	UTM83-9	527955	6853158	02-Aug-16	348.2	WHI16000181	0.1795	179.5
AA069669	soil	2016	UTM83-9	527903	6853157	02-Aug-16	181.5	WHI16000181	0.0667	66.7
AA069670	soil	2016	UTM83-9	527853	6853158	02-Aug-16	157.7	WHI16000181	0.0359	35.9
AA069671	soil	2016	UTM83-9	527802	6853160	02-Aug-16	72.8	WHI16000180	0.0089	8.9
AA069672	soil	2016	UTM83-9	527752	6853155	02-Aug-16	54.6	WHI16000180	0.0064	6.4
AA069673	soil	2016	UTM83-9	527752	6853155	02-Aug-16	56	WHI16000180	0.0062	6.2
AA069674	soil	2016	UTM83-9	527703	6853160	02-Aug-16	33.2	WHI16000180	0.0061	6.1
AA069675	soil	2016	UTM83-9	527652	6853161	02-Aug-16	42.1	WHI16000180	0.0139	13.9
AA069676	soil	2016	UTM83-9	527602	6853161	02-Aug-16	48.7	WHI16000180	0.012	12
AA069677	soil	2016	UTM83-9	527555	6853160	02-Aug-16	40.8	WHI16000180	0.0133	13.3
AA069678	soil	2016	UTM83-9	527510	6853162	02-Aug-16	24.2	WHI16000180	0.0099	9.9
AA069679	soil	2016	UTM83-9	527456	6853155	02-Aug-16	20.2	WHI16000180	0.0086	8.6
AA069680	soil	2016	UTM83-9	527403	6853159	02-Aug-16	24.7	WHI16000180	0.0066	6.6
AA069681	soil	2016	UTM83-9	527354	6853157	02-Aug-16	22.4	WHI16000180	0.0042	4.2
AA069682	soil	2016	UTM83-9	528951	6853562	02-Aug-16	133.2	WHI16000180	0.0085	8.5
AA069683	soil	2016	UTM83-9	529005	6853560	02-Aug-16	521.7	WHI16000180	0.0284	28.4
AA069684	soil	2016	UTM83-9	529051	6853557	02-Aug-16	2078.4	WHI16000180	0.3746	374.6
AA069685	soil	2016	UTM83-9	529096	6853555	02-Aug-16	555.6	WHI16000180	0.0351	35.1
AA069686	soil	2016	UTM83-9	529146	6853556	02-Aug-16	N/A	WHI16000180	N/A	N/A
AA069687	soil	2016	UTM83-9	529204	6853555	02-Aug-16	1069.8	WHI16000180	0.1764	176.4
AA069688	soil	2016	UTM83-9	529254	6853556	02-Aug-16	321.9	WHI16000180	0.0316	31.6
AA069689	soil	2016	UTM83-9	529302	6853563	02-Aug-16	75.8	WHI16000180	0.003	3
AA069690	soil	2016	UTM83-9	529354	6853561	02-Aug-16	128.7	WHI16000180	0.0075	7.5
AA069691	soil	2016	UTM83-9	529403	6853559	02-Aug-16	199.2	WHI16000180	0.0209	20.9
AA069692	soil	2016	UTM83-9	529453	6853560	02-Aug-16	19.7	WHI16000180	0.0012	1.2
AA069693	soil	2016	UTM83-9	529500	6853562	02-Aug-16	187.3	WHI16000180	0.0227	22.7
AA069694	soil	2016	UTM83-9	529552	6853560	02-Aug-16	29.8	WHI16000180	0.0022	2.2
AA069695	soil	2016	UTM83-9	529601	6853559	02-Aug-16	131.8	WHI16000180	0.0112	11.2
AA069696	soil	2016	UTM83-9	529655	6853564	02-Aug-16	22.1	WHI16000180	0.0012	1.2
AA069697	soil	2016	UTM83-9	529704	6853557	02-Aug-16	133.8	WHI16000180	0.0149	14.9
AA069698	soil	2016	UTM83-9	529758	6853556	02-Aug-16	42.1	WHI16000180	0.0044	4.4
AA069699	soil	2016	UTM83-9	529803	6853557	02-Aug-16	43.1	WHI16000180	0.0073	7.3
AA069700	soil	2016	UTM83-9	529855	6853565	02-Aug-16	26.8	WHI16000180	0.0015	1.5
AA069701	soil	2016	UTM83-9	528992	6853254	31-Jul-16	68.8	WHI16000233	0.0138	13.8
AA069702	soil	2016	UTM83-9	528955	6853263	31-Jul-16	109.9	WHI16000233	0.0217	21.7
AA069703	soil	2016	UTM83-9	528904	6853255	31-Jul-16	652.4	WHI16000233	0.1286	128.6
AA069704	soil	2016	UTM83-9	528849	6853249	31-Jul-16	242.1	WHI16000233	0.0601	60.1
AA069705	soil	2016	UTM83-9	528792	6853264	31-Jul-16	68.4	WHI16000233	0.0154	15.4
AA069706	soil	2016	UTM83-9	528752	6853262	31-Jul-16	42.2	WHI16000233	0.0073	7.3
AA069707	soil	2016	UTM83-9	528714	6853263	31-Jul-16	44.5	WHI16000233	0.008	8
AA069708	soil	2016	UTM83-9	528654	6853263	31-Jul-16	158	WHI16000233	0.0549	54.9
AA069709	soil	2016	UTM83-9	528600	6853254	31-Jul-16	164.9	WHI16000233	0.0371	37.1

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA069710	soil	2016	UTM83-9	528547	6853259	31-Jul-16	124	WHI16000233	0.0311	31.1
AA069711	soil	2016	UTM83-9	528502	6853258	31-Jul-16	244.7	WHI16000233	0.0254	25.4
AA069712	soil	2016	UTM83-9	528451	6853254	31-Jul-16	58.2	WHI16000233	0.006	6
AA069713	soil	2016	UTM83-9	528400	6853258	31-Jul-16	94.1	WHI16000233	0.0141	14.1
AA069714	soil	2016	UTM83-9	528355	6853259	31-Jul-16	18.8	WHI16000233	0.0023	2.3
AA069715	soil	2016	UTM83-9	528305	6853260	31-Jul-16	63.7	WHI16000233	0.0108	10.8
AA069716	soil	2016	UTM83-9	528259	6853252	31-Jul-16	53.6	WHI16000233	0.0089	8.9
AA069717	soil	2016	UTM83-9	528202	6853255	31-Jul-16	64.7	WHI16000233	0.0206	20.6
AA069718	soil	2016	UTM83-9	528153	6853275	31-Jul-16	104.8	WHI16000233	0.0369	36.9
AA069719	soil	2016	UTM83-9	528112	6853260	31-Jul-16	40.9	WHI16000233	0.0025	2.5
AA069720	soil	2016	UTM83-9	528061	6853253	31-Jul-16	12.3	WHI16000233	0.0017	1.7
AA069721	soil	2016	UTM83-9	528010	6853260	31-Jul-16	32.4	WHI16000233	0.0051	5.1
AA069722	soil	2016	UTM83-9	527951	6853266	31-Jul-16	99	WHI16000233	0.0263	26.3
AA069723	soil	2016	UTM83-9	527908	6853261	31-Jul-16	158.5	WHI16000233	0.062	62
AA069724	soil	2016	UTM83-9	527859	6853258	31-Jul-16	47.2	WHI16000233	0.0188	18.8
AA069725	soil	2016	UTM83-9	527803	6853262	31-Jul-16	49.3	WHI16000233	0.0192	19.2
AA069726	soil	2016	UTM83-9	527750	6853259	31-Jul-16	42.7	WHI16000233	0.0157	15.7
AA069727	soil	2016	UTM83-9	527696	6853257	31-Jul-16	47.3	WHI16000233	0.0145	14.5
AA069728	soil	2016	UTM83-9	527655	6853258	31-Jul-16	35.2	WHI16000233	0.0117	11.7
AA069729	soil	2016	UTM83-9	527600	6853255	31-Jul-16	65.4	WHI16000233	0.0126	12.6
AA069730	soil	2016	UTM83-9	527555	6853251	31-Jul-16	60.8	WHI16000233	0.0216	21.6
AA069731	soil	2016	UTM83-9	527500	6853255	31-Jul-16	25.8	WHI16000233	0.007	7
AA069732	soil	2016	UTM83-9	527444	6853264	31-Jul-16	10.7	WHI16000233	0.0015	1.5
AA069733	soil	2016	UTM83-9	527397	6853261	31-Jul-16	61.3	WHI16000233	0.0129	12.9
AA069734	soil	2016	UTM83-9	527350	6853255	31-Jul-16	56.4	WHI16000233	0.0118	11.8
AA069735	soil	2016	UTM83-9	527311	6853264	31-Jul-16	17.6	WHI16000233	0.0044	4.4
AA069736	soil	2016	UTM83-9	527251	6853262	31-Jul-16	17.3	WHI16000233	0.0034	3.4
AA069737	soil	2016	UTM83-9	527214	6853251	31-Jul-16	19.1	WHI16000233	0.004	4
AA069738	soil	2016	UTM83-9	527143	6853264	31-Jul-16	17.4	WHI16000233	0.0046	4.6
AA069739	soil	2016	UTM83-9	527145	6853264	31-Jul-16	5.3	WHI16000233	0.0022	2.2
AA069740	soil	2016	UTM83-9	529002	6853662	01-Aug-16	59.1	WHI16000233	0.0068	6.8
AA069741	soil	2016	UTM83-9	529047	6853666	01-Aug-16	164.4	WHI16000233	0.0186	18.6
AA069742	soil	2016	UTM83-9	529091	6853657	01-Aug-16	5372.3	WHI16000233	0.5276	527.6
AA069743	soil	2016	UTM83-9	529144	6853660	01-Aug-16	90.7	WHI16000233	0.0131	13.1
AA069744	soil	2016	UTM83-9	529189	6853655	01-Aug-16	249.2	WHI16000233	0.0177	17.7
AA069745	soil	2016	UTM83-9	529251	6853657	01-Aug-16	342.4	WHI16000233	0.0257	25.7
AA069746	soil	2016	UTM83-9	529304	6853657	01-Aug-16	43.8	WHI16000233	0.0062	6.2
AA069747	soil	2016	UTM83-9	529356	6853659	01-Aug-16	20.3	WHI16000233	0.0028	2.8
AA069748	soil	2016	UTM83-9	529405	6853658	01-Aug-16	22.7	WHI16000233	0.0022	2.2
AA069749	soil	2016	UTM83-9	529456	6853657	01-Aug-16	44.5	WHI16000233	0.0102	10.2
AA069750	soil	2016	UTM83-9	529505	6853661	01-Aug-16	42.2	WHI16000233	0.0034	3.4
AA069751	soil	2016	UTM83-9	530408	6853751	01-Aug-16	24.7	WHI16000181	0.0052	5.2
AA069752	soil	2016	UTM83-9	530453	6853758	01-Aug-16	103.9	WHI16000181	0.0331	33.1
AA069753	soil	2016	UTM83-9	530502	6853761	01-Aug-16	43.3	WHI16000181	0.0081	8.1
AA069754	soil	2016	UTM83-9	530555	6853755	01-Aug-16	49.7	WHI16000181	0.0131	13.1
AA069755	soil	2016	UTM83-9	530603	6853762	01-Aug-16	9.4	WHI16000181	0.0017	1.7
AA069756	soil	2016	UTM83-9	530648	6853760	01-Aug-16	8.9	WHI16000181	0.002	2
AA069757	soil	2016	UTM83-9	528905	6853755	02-Aug-16	281.5	WHI16000181	0.0107	10.7
AA069758	soil	2016	UTM83-9	528857	6853756	02-Aug-16	195.3	WHI16000181	0.0153	15.3
AA069759	soil	2016	UTM83-9	528803	6853755	02-Aug-16	69.3	WHI16000181	0.0097	9.7
AA069760	soil	2016	UTM83-9	528752	6853762	02-Aug-16	73.9	WHI16000181	0.0097	9.7
AA069761	soil	2016	UTM83-9	528706	6853758	02-Aug-16	49.1	WHI16000181	0.0092	9.2
AA069762	soil	2016	UTM83-9	528650	6853759	02-Aug-16	250.2	WHI16000181	0.0671	67.1
AA069763	soil	2016	UTM83-9	528598	6853765	02-Aug-16	158.3	WHI16000181	0.0761	76.1
AA069764	soil	2016	UTM83-9	528551	6853760	02-Aug-16	72	WHI16000181	0.0112	11.2
AA069765	soil	2016	UTM83-9	528499	6853758	02-Aug-16	46.8	WHI16000181	0.0096	9.6
AA069766	soil	2016	UTM83-9	528447	6853759	02-Aug-16	29.8	WHI16000181	0.0052	5.2
AA069767	soil	2016	UTM83-9	528405	6853762	02-Aug-16	36.9	WHI16000181	0.0095	9.5
AA069768	soil	2016	UTM83-9	528353	6853771	02-Aug-16	27.1	WHI16000181	0.0038	3.8
AA069769	soil	2016	UTM83-9	528304	6853758	02-Aug-16	43.8	WHI16000181	0.0053	5.3
AA069770	soil	2016	UTM83-9	528248	6853761	02-Aug-16	50.8	WHI16000181	0.0059	5.9

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA069771	soil	2016	UTM83-9	528209	6853753	02-Aug-16	130	WHI16000181	0.0307	30.7
AA069772	soil	2016	UTM83-9	528149	6853752	02-Aug-16	44.9	WHI16000181	0.0068	6.8
AA069773	soil	2016	UTM83-9	528100	6853757	02-Aug-16	N/A	WHI16000181	N/A	N/A
AA069774	soil	2016	UTM83-9	528100	6853757	02-Aug-16	29.9	WHI16000181	0.0027	2.7
AA069775	soil	2016	UTM83-9	528059	6853759	02-Aug-16	25.4	WHI16000181	0.0047	4.7
AA069776	soil	2016	UTM83-9	528002	6853756	02-Aug-16	46.6	WHI16000181	0.0063	6.3
AA069777	soil	2016	UTM83-9	527961	6853754	02-Aug-16	21.3	WHI16000181	0.0031	3.1
AA069778	soil	2016	UTM83-9	527898	6853756	02-Aug-16	20.5	WHI16000181	0.0031	3.1
AA069779	soil	2016	UTM83-9	527848	6853760	02-Aug-16	168.8	WHI16000181	0.0587	58.7
AA069780	soil	2016	UTM83-9	527798	6853755	02-Aug-16	79.8	WHI16000181	0.0141	14.1
AA069781	soil	2016	UTM83-9	527752	6853759	02-Aug-16	36.1	WHI16000181	0.0113	11.3
AA069782	soil	2016	UTM83-9	527702	6853758	02-Aug-16	35.7	WHI16000181	0.0048	4.8
AA069783	soil	2016	UTM83-9	527647	6853751	02-Aug-16	16.7	WHI16000181	0.0016	1.6
AA069784	soil	2016	UTM83-9	527600	6853757	02-Aug-16	13.7	WHI16000181	0.0017	1.7
AA069785	soil	2016	UTM83-9	527548	6853757	02-Aug-16	13.2	WHI16000181	0.0009	0.9
AA069786	soil	2016	UTM83-9	527504	6853756	02-Aug-16	6.9	WHI16000181	0.0008	0.8
AA069787	soil	2016	UTM83-9	527457	6853751	02-Aug-16	55.8	WHI16000181	0.0021	2.1
AA069788	soil	2016	UTM83-9	527398	6853760	02-Aug-16	83.8	WHI16000181	0.0233	23.3
AA069789	soil	2016	UTM83-9	527354	6853753	02-Aug-16	40.4	WHI16000181	0.0033	3.3
AA069790	soil	2016	UTM83-9	527301	6853762	02-Aug-16	24.1	WHI16000181	0.0004	0.4
AA069791	soil	2016	UTM83-9	527251	6853762	02-Aug-16	16.7	WHI16000233	0.0028	2.8
AA069792	soil	2016	UTM83-9	527205	6853754	02-Aug-16	32.5	WHI16000233	0.0099	9.9
AA069793	soil	2016	UTM83-9	527158	6853755	02-Aug-16	10.9	WHI16000233	0.0002	0.2
AA069794	soil	2016	UTM83-9	527104	6853757	02-Aug-16	23	WHI16000233	0.0008	0.8
AA069795	soil	2016	UTM83-9	527055	6853751	02-Aug-16	43.9	WHI16000233	0.0135	13.5
AA069796	soil	2016	UTM83-9	529361	6854256	03-Aug-16	9.5	WHI16000233	0.0014	1.4
AA069797	soil	2016	UTM83-9	529404	6854259	03-Aug-16	8.4	WHI16000233	0.0017	1.7
AA069798	soil	2016	UTM83-9	529454	6854257	03-Aug-16	11.8	WHI16000233	0.0007	0.7
AA069799	soil	2016	UTM83-9	529502	6854264	03-Aug-16	11.3	WHI16000233	0.0008	0.8
AA069800	soil	2016	UTM83-9	529560	6854256	03-Aug-16	12.7	WHI16000233	0.0005	0.5
AA069801	soil	2016	UTM83-9	529547	6853661	01-Aug-16	6.5	WHI16000233	0.0011	1.1
AA069802	soil	2016	UTM83-9	529599	6853663	01-Aug-16	10.4	WHI16000233	0.0011	1.1
AA069803	soil	2016	UTM83-9	529653	6853656	01-Aug-16	15.9	WHI16000233	0.0042	4.2
AA069804	soil	2016	UTM83-9	529709	6853671	01-Aug-16	33.7	WHI16000233	0.0053	5.3
AA069805	soil	2016	UTM83-9	529755	6853656	01-Aug-16	23.1	WHI16000233	0.002	2
AA069806	soil	2016	UTM83-9	529801	6853663	01-Aug-16	21.6	WHI16000233	0.0014	1.4
AA069807	soil	2016	UTM83-9	529856	6853660	01-Aug-16	31.9	WHI16000233	0.0017	1.7
AA069808	soil	2016	UTM83-9	529896	6853669	01-Aug-16	133.3	WHI16000233	0.0173	17.3
AA069809	soil	2016	UTM83-9	529951	6853666	01-Aug-16	23.6	WHI16000233	0.0009	0.9
AA069810	soil	2016	UTM83-9	530001	6853665	01-Aug-16	15.3	WHI16000233	0.0016	1.6
AA069811	soil	2016	UTM83-9	530057	6853669	01-Aug-16	98.3	WHI16000180	0.0131	13.1
AA069812	soil	2016	UTM83-9	530108	6853668	01-Aug-16	29.2	WHI16000180	0.0011	1.1
AA069813	soil	2016	UTM83-9	530155	6853664	01-Aug-16	22.8	WHI16000180	0.0011	1.1
AA069814	soil	2016	UTM83-9	530201	6853669	01-Aug-16	9.1	WHI16000180	0.0009	0.9
AA069815	soil	2016	UTM83-9	530254	6853660	01-Aug-16	16.9	WHI16000180	0.0027	2.7
AA069816	soil	2016	UTM83-9	530299	6853653	01-Aug-16	12	WHI16000180	0.0018	1.8
AA069817	soil	2016	UTM83-9	530351	6853659	01-Aug-16	18.9	WHI16000180	0.0031	3.1
AA069818	soil	2016	UTM83-9	530407	6853659	01-Aug-16	30.5	WHI16000180	0.0103	10.3
AA069819	soil	2016	UTM83-9	530456	6853663	01-Aug-16	116.1	WHI16000180	0.0438	43.8
AA069820	soil	2016	UTM83-9	530502	6853663	01-Aug-16	72.1	WHI16000180	0.0252	25.2
AA069821	soil	2016	UTM83-9	530555	6853656	01-Aug-16	120.8	WHI16000180	0.0253	25.3
AA069822	soil	2016	UTM83-9	530600	6853661	01-Aug-16	13.1	WHI16000180	0.0021	2.1
AA069823	soil	2016	UTM83-9	530650	6853663	01-Aug-16	10.6	WHI16000180	0.0062	6.2
AA069824	soil	2016	UTM83-9	529006	6853656	02-Aug-16	61.1	WHI16000180	0.0048	4.8
AA069825	soil	2016	UTM83-9	528950	6853657	02-Aug-16	283.8	WHI16000180	0.0186	18.6
AA069826	soil	2016	UTM83-9	528907	6853662	02-Aug-16	221.6	WHI16000180	0.0178	17.8
AA069827	soil	2016	UTM83-9	528856	6853663	02-Aug-16	90.6	WHI16000180	0.0134	13.4
AA069828	soil	2016	UTM83-9	528856	6853663	02-Aug-16	98.2	WHI16000180	0.0148	14.8
AA069829	soil	2016	UTM83-9	528805	6853661	02-Aug-16	418.7	WHI16000180	0.0796	79.6
AA069830	soil	2016	UTM83-9	528754	6853661	02-Aug-16	30	WHI16000180	0.0039	3.9
AA069831	soil	2016	UTM83-9	528708	6853662	02-Aug-16	1007.2	WHI16000180	0.1654	165.4

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA069832	soil	2016	UTM83-9	528659	6853658	02-Aug-16	107	WHI16000180	0.0221	22.1
AA069833	soil	2016	UTM83-9	528594	6853661	02-Aug-16	152.5	WHI16000180	0.0583	58.3
AA069834	soil	2016	UTM83-9	528554	6853658	02-Aug-16	98.7	WHI16000180	0.0194	19.4
AA069835	soil	2016	UTM83-9	528499	6853663	02-Aug-16	38.5	WHI16000180	0.0065	6.5
AA069836	soil	2016	UTM83-9	528458	6853661	02-Aug-16	90.9	WHI16000180	0.0287	28.7
AA069837	soil	2016	UTM83-9	528411	6853655	02-Aug-16	111.9	WHI16000180	0.0388	38.8
AA069838	soil	2016	UTM83-9	528355	6853661	02-Aug-16	80.6	WHI16000180	0.0212	21.2
AA069839	soil	2016	UTM83-9	528308	6853672	02-Aug-16	48	WHI16000180	0.0109	10.9
AA069840	soil	2016	UTM83-9	528246	6853659	02-Aug-16	73.7	WHI16000180	0.0216	21.6
AA069841	soil	2016	UTM83-9	528205	6853666	02-Aug-16	34.6	WHI16000180	0.0041	4.1
AA069842	soil	2016	UTM83-9	528144	6853669	02-Aug-16	214.3	WHI16000180	0.0365	36.5
AA069843	soil	2016	UTM83-9	528106	6853674	02-Aug-16	89.5	WHI16000180	0.021	21
AA069844	soil	2016	UTM83-9	528050	6853662	02-Aug-16	37.8	WHI16000180	0.014	14
AA069845	soil	2016	UTM83-9	528017	6853661	02-Aug-16	29.6	WHI16000180	0.0057	5.7
AA069846	soil	2016	UTM83-9	527949	6853657	02-Aug-16	24.2	WHI16000180	0.0034	3.4
AA069847	soil	2016	UTM83-9	527901	6853650	02-Aug-16	31.8	WHI16000180	0.0082	8.2
AA069848	soil	2016	UTM83-9	527857	6853658	02-Aug-16	117.6	WHI16000180	0.0328	32.8
AA069849	soil	2016	UTM83-9	527797	6853656	02-Aug-16	47.3	WHI16000180	0.0106	10.6
AA069850	soil	2016	UTM83-9	527768	6853652	02-Aug-16	50.7	WHI16000180	0.0122	12.2
AA069851	soil	2016	UTM83-9	529904	6853560	02-Aug-16	16.2	WHI16000180	0.0027	2.7
AA069852	soil	2016	UTM83-9	529954	6853561	02-Aug-16	46.4	WHI16000180	0.0066	6.6
AA069853	soil	2016	UTM83-9	530003	6853553	02-Aug-16	38.4	WHI16000180	0.0057	5.7
AA069854	soil	2016	UTM83-9	530058	6853560	02-Aug-16	47.1	WHI16000180	0.0083	8.3
AA069855	soil	2016	UTM83-9	530107	6853561	02-Aug-16	26	WHI16000180	0.0092	9.2
AA069856	soil	2016	UTM83-9	530155	6853564	02-Aug-16	18.2	WHI16000180	0.0036	3.6
AA069857	soil	2016	UTM83-9	530207	6853561	02-Aug-16	13.7	WHI16000180	0.0018	1.8
AA069858	soil	2016	UTM83-9	530254	6853560	02-Aug-16	12.1	WHI16000180	0.0021	2.1
AA069859	soil	2016	UTM83-9	530305	6853557	02-Aug-16	29.6	WHI16000180	0.0028	2.8
AA069860	soil	2016	UTM83-9	530401	6853557	02-Aug-16	39.9	WHI16000180	0.014	14
AA069861	soil	2016	UTM83-9	530401	6853557	02-Aug-16	41.8	WHI16000180	0.0122	12.2
AA069862	soil	2016	UTM83-9	530454	6853559	02-Aug-16	36.3	WHI16000180	0.0069	6.9
AA069863	soil	2016	UTM83-9	530503	6853561	02-Aug-16	71.1	WHI16000180	0.029	29
AA069864	soil	2016	UTM83-9	530554	6853565	02-Aug-16	104.5	WHI16000180	0.0526	52.6
AA069865	soil	2016	UTM83-9	530603	6853560	02-Aug-16	241.4	WHI16000180	0.0594	59.4
AA069866	soil	2016	UTM83-9	530652	6853563	02-Aug-16	60.1	WHI16000180	0.0126	12.6
AA069867	soil	2016	UTM83-9	530355	6853554	02-Aug-16	11.4	WHI16000180	0.0001	0.1
AA069868	soil	2016	UTM83-9	528902	6853559	02-Aug-16	578.9	WHI16000180	0.0471	47.1
AA069869	soil	2016	UTM83-9	528855	6853558	02-Aug-16	38.6	WHI16000180	0.0036	3.6
AA069870	soil	2016	UTM83-9	528803	6853556	02-Aug-16	48.2	WHI16000180	0.0056	5.6
AA069871	soil	2016	UTM83-9	528753	6853559	02-Aug-16	115.6	WHI16000180	0.0141	14.1
AA069872	soil	2016	UTM83-9	528651	6853561	02-Aug-16	155.2	WHI16000180	0.0462	46.2
AA069873	soil	2016	UTM83-9	528613	6853559	02-Aug-16	311.5	WHI16000180	0.0868	86.8
AA069874	soil	2016	UTM83-9	528561	6853571	02-Aug-16	45.4	WHI16000180	0.0124	12.4
AA069875	soil	2016	UTM83-9	528500	6853564	02-Aug-16	37.6	WHI16000180	0.0023	2.3
AA069876	soil	2016	UTM83-9	528457	6853563	02-Aug-16	32.7	WHI16000180	0.0021	2.1
AA069877	soil	2016	UTM83-9	528404	6853559	02-Aug-16	30.8	WHI16000180	0.0085	8.5
AA069878	soil	2016	UTM83-9	528354	6853565	02-Aug-16	75.9	WHI16000180	0.0109	10.9
AA069879	soil	2016	UTM83-9	528310	6853565	02-Aug-16	42.1	WHI16000180	0.0053	5.3
AA069880	soil	2016	UTM83-9	528257	6853557	02-Aug-16	34.7	WHI16000180	0.0039	3.9
AA069881	soil	2016	UTM83-9	528203	6853556	02-Aug-16	348.7	WHI16000180	0.032	32
AA069882	soil	2016	UTM83-9	528154	6853558	02-Aug-16	36.7	WHI16000180	0.0016	1.6
AA069883	soil	2016	UTM83-9	528100	6853557	02-Aug-16	N/A	WHI16000180	N/A	N/A
AA069884	soil	2016	UTM83-9	528005	6853563	02-Aug-16	23.1	WHI16000180	0.0023	2.3
AA069885	soil	2016	UTM83-9	527959	6853560	02-Aug-16	106.6	WHI16000180	0.013	13
AA069886	soil	2016	UTM83-9	527902	6853559	02-Aug-16	227.9	WHI16000180	0.0562	56.2
AA069887	soil	2016	UTM83-9	527851	6853562	02-Aug-16	103.5	WHI16000180	0.0221	22.1
AA069888	soil	2016	UTM83-9	527803	6853560	02-Aug-16	76.8	WHI16000180	0.0153	15.3
AA069889	soil	2016	UTM83-9	527756	6853560	02-Aug-16	39.9	WHI16000180	0.0041	4.1
AA069890	soil	2016	UTM83-9	527707	6853561	02-Aug-16	84.1	WHI16000180	0.0156	15.6
AA069891	soil	2016	UTM83-9	527657	6853560	02-Aug-16	54.1	WHI16000180	0.0092	9.2
AA069892	soil	2016	UTM83-9	527603	6853560	02-Aug-16	44.6	WHI16000180	0.0063	6.3

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA069893	soil	2016	UTM83-9	527552	6853559	02-Aug-16	34	WHI16000180	0.0033	3.3
AA069894	soil	2016	UTM83-9	527498	6853556	02-Aug-16	45.6	WHI16000180	0.0066	6.6
AA069895	soil	2016	UTM83-9	527455	6853555	02-Aug-16	41.2	WHI16000180	0.0047	4.7
AA069896	soil	2016	UTM83-9	527403	6853560	02-Aug-16	50	WHI16000180	0.0052	5.2
AA069897	soil	2016	UTM83-9	527356	6853559	02-Aug-16	24.7	WHI16000180	0.0011	1.1
AA069898	soil	2016	UTM83-9	527304	6853554	02-Aug-16	23.5	WHI16000180	0.001	1
AA069899	soil	2016	UTM83-9	527255	6853558	02-Aug-16	85.8	WHI16000180	0.0253	25.3
AA069900	soil	2016	UTM83-9	527205	6853559	02-Aug-16	46.2	WHI16000180	0.0028	2.8
AA069901	soil	2016	UTM83-9	528354	6853461	02-Aug-16	241.9	WHI16000180	0.0144	14.4
AA069902	soil	2016	UTM83-9	528307	6853461	02-Aug-16	40.8	WHI16000180	0.0035	3.5
AA069903	soil	2016	UTM83-9	528264	6853463	02-Aug-16	72.9	WHI16000180	0.0263	26.3
AA069904	soil	2016	UTM83-9	528203	6853458	02-Aug-16	61.6	WHI16000180	0.0145	14.5
AA069905	soil	2016	UTM83-9	528146	6853470	02-Aug-16	199.7	WHI16000180	0.0112	11.2
AA069906	soil	2016	UTM83-9	528101	6853444	02-Aug-16	186.8	WHI16000180	0.0891	89.1
AA069907	soil	2016	UTM83-9	528061	6853453	02-Aug-16	108.3	WHI16000180	0.0257	25.7
AA069908	soil	2016	UTM83-9	528014	6853463	02-Aug-16	155.6	WHI16000180	0.0141	14.1
AA069909	soil	2016	UTM83-9	527962	6853466	02-Aug-16	282.3	WHI16000180	0.0498	49.8
AA069910	soil	2016	UTM83-9	527910	6853463	02-Aug-16	231.1	WHI16000180	0.0263	26.3
AA069911	soil	2016	UTM83-9	527853	6853460	02-Aug-16	46.9	WHI16000180	0.0133	13.3
AA069912	soil	2016	UTM83-9	527807	6853465	02-Aug-16	165.5	WHI16000180	0.0257	25.7
AA069913	soil	2016	UTM83-9	527768	6853457	02-Aug-16	60.6	WHI16000180	0.0123	12.3
AA069914	soil	2016	UTM83-9	527710	6853461	02-Aug-16	65.7	WHI16000180	0.0115	11.5
AA069915	soil	2016	UTM83-9	527707	6853457	02-Aug-16	60.5	WHI16000180	0.0119	11.9
AA069916	soil	2016	UTM83-9	527659	6853458	02-Aug-16	132.4	WHI16000180	0.0273	27.3
AA069917	soil	2016	UTM83-9	527608	6853454	02-Aug-16	63.8	WHI16000180	0.009	9
AA069918	soil	2016	UTM83-9	527553	6853464	02-Aug-16	94.2	WHI16000180	0.0197	19.7
AA069919	soil	2016	UTM83-9	527510	6853449	02-Aug-16	76.7	WHI16000180	0.0107	10.7
AA069920	soil	2016	UTM83-9	527455	6853463	02-Aug-16	24.5	WHI16000180	0.0028	2.8
AA069921	soil	2016	UTM83-9	527402	6853464	02-Aug-16	38.4	WHI16000180	0.0027	2.7
AA069922	soil	2016	UTM83-9	527354	6853453	02-Aug-16	21.4	WHI16000180	0.0015	1.5
AA069923	soil	2016	UTM83-9	527300	6853457	02-Aug-16	25.4	WHI16000180	0.0017	1.7
AA069924	soil	2016	UTM83-9	527260	6853458	02-Aug-16	22.5	WHI16000180	0.0005	0.5
AA069925	soil	2016	UTM83-9	527206	6853459	02-Aug-16	10.3	WHI16000180	0.0004	0.4
AA069926	soil	2016	UTM83-9	527156	6853458	02-Aug-16	20.5	WHI16000180	0.0011	1.1
AA069927	soil	2016	UTM83-9	527113	6853460	02-Aug-16	36.2	WHI16000180	0.0021	2.1
AA069928	soil	2016	UTM83-9	527064	6853456	02-Aug-16	33.2	WHI16000180	0.0015	1.5
AA069929	soil	2016	UTM83-9	527055	6853550	02-Aug-16	42.9	WHI16000180	0.001	1
AA069930	soil	2016	UTM83-9	527103	6853555	02-Aug-16	23	WHI16000180	0.0008	0.8
AA069931	soil	2016	UTM83-9	527147	6853553	02-Aug-16	2.2	WHI16000181	0.0059	5.9
AA069932	soil	2016	UTM83-9	529455	6853864	03-Aug-16	5	WHI16000181	0.004	4
AA069933	soil	2016	UTM83-9	529504	6853859	03-Aug-16	1.7	WHI16000181	0.0034	3.4
AA069934	soil	2016	UTM83-9	529548	6853864	03-Aug-16	6.2	WHI16000181	0.0006	0.6
AA069935	soil	2016	UTM83-9	529603	6853860	03-Aug-16	39.5	WHI16000181	0.0007	0.7
AA069936	soil	2016	UTM83-9	529652	6853862	03-Aug-16	29.4	WHI16000181	0.0004	0.4
AA069937	soil	2016	UTM83-9	529699	6853864	03-Aug-16	22.1	WHI16000181	0.0023	2.3
AA069938	soil	2016	UTM83-9	529749	6853863	03-Aug-16	29.3	WHI16000181	0.0039	3.9
AA069939	soil	2016	UTM83-9	529805	6853863	03-Aug-16	17.3	WHI16000181	0.0009	0.9
AA069940	soil	2016	UTM83-9	529855	6853862	03-Aug-16	18.1	WHI16000181	0.0016	1.6
AA069941	soil	2016	UTM83-9	529909	6853865	03-Aug-16	124	WHI16000181	0.0035	3.5
AA069942	soil	2016	UTM83-9	529951	6853859	03-Aug-16	21.1	WHI16000181	0.0044	4.4
AA069943	soil	2016	UTM83-9	530003	6853857	03-Aug-16	109.8	WHI16000181	0.0128	12.8
AA069944	soil	2016	UTM83-9	530049	6853853	03-Aug-16	54.8	WHI16000181	0.0087	8.7
AA069945	soil	2016	UTM83-9	530098	6853857	03-Aug-16	72.3	WHI16000181	0.0106	10.6
AA069946	soil	2016	UTM83-9	530149	6853855	03-Aug-16	22.5	WHI16000181	0.0035	3.5
AA069947	soil	2016	UTM83-9	530200	6853861	03-Aug-16	32.8	WHI16000181	0.0047	4.7
AA069948	soil	2016	UTM83-9	530254	6853864	03-Aug-16	56	WHI16000181	0.004	4
AA069949	soil	2016	UTM83-9	530303	6853851	03-Aug-16	29.9	WHI16000181	0.0029	2.9
AA069950	soil	2016	UTM83-9	530360	6853862	03-Aug-16	16	WHI16000181	0.0035	3.5
AA069951	soil	2016	UTM83-9	527205	6853559	03-Aug-16	53.2	WHI16000181	0.0038	3.8
AA069952	soil	2016	UTM83-9	529360	6854059	03-Aug-16	13.4	WHI16000181	0.0029	2.9
AA069953	soil	2016	UTM83-9	529406	6854060	03-Aug-16	48.9	WHI16000181	0.0056	5.6

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA069954	soil	2016	UTM83-9	529451	6854059	03-Aug-16	40.3	WHI16000181	0.0055	5.5
AA069955	soil	2016	UTM83-9	529503	6854061	03-Aug-16	18.4	WHI16000181	0.0009	0.9
AA069956	soil	2016	UTM83-9	529554	6854056	03-Aug-16	13.5	WHI16000181	0.0008	0.8
AA069957	soil	2016	UTM83-9	529592	6854067	03-Aug-16	41.6	WHI16000181	0.0031	3.1
AA069958	soil	2016	UTM83-9	529655	6854059	03-Aug-16	62.1	WHI16000181	0.006	6
AA069959	soil	2016	UTM83-9	529701	6854060	03-Aug-16	67.6	WHI16000181	0.0081	8.1
AA069960	soil	2016	UTM83-9	529755	6854060	03-Aug-16	52.9	WHI16000181	0.0026	2.6
AA069961	soil	2016	UTM83-9	529805	6854060	03-Aug-16	30.8	WHI16000181	0.002	2
AA069962	soil	2016	UTM83-9	529854	6854060	03-Aug-16	126	WHI16000181	0.0308	30.8
AA069963	soil	2016	UTM83-9	529904	6854062	03-Aug-16	42.9	WHI16000181	0.0054	5.4
AA069964	soil	2016	UTM83-9	529946	6854057	03-Aug-16	13.6	WHI16000181	0.0014	1.4
AA069965	soil	2016	UTM83-9	530001	6854063	03-Aug-16	20.8	WHI16000181	0.0014	1.4
AA069966	soil	2016	UTM83-9	530052	6854061	03-Aug-16	8.4	WHI16000181	0.0012	1.2
AA069967	soil	2016	UTM83-9	530097	6854061	03-Aug-16	13.6	WHI16000181	0.0031	3.1
AA069968	soil	2016	UTM83-9	530154	6854059	03-Aug-16	4.9	WHI16000181	0.0008	0.8
AA069969	soil	2016	UTM83-9	530202	6854059	03-Aug-16	7.2	WHI16000181	0.0045	4.5
AA069970	soil	2016	UTM83-9	530254	6854060	03-Aug-16	24.8	WHI16000181	0.003	3
AA069971	soil	2016	UTM83-9	530301	6854061	03-Aug-16	14.4	WHI16000233	0.0006	0.6
AA069972	soil	2016	UTM83-9	530348	6854056	03-Aug-16	35.9	WHI16000233	0.0032	3.2
AA069973	soil	2016	UTM83-9	530401	6854060	03-Aug-16	24.1	WHI16000233	0.0009	0.9
AA069974	soil	2016	UTM83-9	530455	6854051	03-Aug-16	17.8	WHI16000233	0.0013	1.3
AA069975	soil	2016	UTM83-9	530502	6854061	03-Aug-16	26.9	WHI16000233	0.0012	1.2
AA069976	soil	2016	UTM83-9	530546	6854062	03-Aug-16	19.9	WHI16000233	0.0008	0.8
AA069977	soil	2016	UTM83-9	530604	6854060	03-Aug-16	22.8	WHI16000233	0.0044	4.4
AA069978	soil	2016	UTM83-9	529204	6854052	03-Aug-16	12.5	WHI16000233	0.0029	2.9
AA069979	soil	2016	UTM83-9	529108	6854052	03-Aug-16	647.6	WHI16000233	0.1096	109.6
AA069980	soil	2016	UTM83-9	529053	6854059	03-Aug-16	23.4	WHI16000233	0.003	3
AA069981	soil	2016	UTM83-9	529004	6854060	03-Aug-16	32.1	WHI16000233	0.014	14
AA069982	soil	2016	UTM83-9	528957	6854055	03-Aug-16	19.1	WHI16000233	0.0314	31.4
AA069983	soil	2016	UTM83-9	528911	6854066	03-Aug-16	12.3	WHI16000233	0.0011	1.1
AA069984	soil	2016	UTM83-9	528845	6854059	03-Aug-16	121.1	WHI16000233	0.024	24
AA069985	soil	2016	UTM83-9	528799	6854054	03-Aug-16	27.8	WHI16000233	0.0012	1.2
AA069986	soil	2016	UTM83-9	528751	6854059	03-Aug-16	37.6	WHI16000233	0.0222	22.2
AA069987	soil	2016	UTM83-9	528707	6854058	03-Aug-16	72.6	WHI16000233	0.0058	5.8
AA069988	soil	2016	UTM83-9	528652	6854058	03-Aug-16	18.9	WHI16000233	0.0005	0.5
AA069989	soil	2016	UTM83-9	528603	6854061	03-Aug-16	3.9	WHI16000233	0.012	12
AA069990	soil	2016	UTM83-9	528603	6854061	03-Aug-16	3.8	WHI16000233	0.0005	0.5
AA069991	soil	2016	UTM83-9	528554	6854060	03-Aug-16	8.7	WHI16000233	0.0007	0.7
AA069992	soil	2016	UTM83-9	528499	6854059	03-Aug-16	49.3	WHI16000233	0.0055	5.5
AA069993	soil	2016	UTM83-9	528454	6854062	03-Aug-16	4.4	WHI16000233	0.0007	0.7
AA069994	soil	2016	UTM83-9	528400	6854067	03-Aug-16	19.7	WHI16000233	0.0002	0.2
AA069995	soil	2016	UTM83-9	528350	6854061	03-Aug-16	24.8	WHI16000233	0.0011	1.1
AA069996	soil	2016	UTM83-9	527056	6854057	03-Aug-16	25.2	WHI16000233	0.005	5
AA069997	soil	2016	UTM83-9	527105	6854059	03-Aug-16	57.2	WHI16000233	0.0101	10.1
AA069998	soil	2016	UTM83-9	527153	6854059	03-Aug-16	32.4	WHI16000233	0.0054	5.4
AA069999	soil	2016	UTM83-9	527199	6854063	03-Aug-16	27.5	WHI16000233	0.0012	1.2
AA070000	soil	2016	UTM83-9	527259	6854062	03-Aug-16	37.1	WHI16000233	0.0018	1.8
AA070001	soil	2016	UTM83-9	528804	6855156	03-Aug-16	18.8	WHI16000236	0.0036	3.6
AA070002	soil	2016	UTM83-9	528753	6855153	03-Aug-16	17.9	WHI16000236	0.0023	2.3
AA070003	soil	2016	UTM83-9	528707	6855161	03-Aug-16	14.3	WHI16000236	0.0034	3.4
AA070004	soil	2016	UTM83-9	528655	6855157	03-Aug-16	13.2	WHI16000236	0.0024	2.4
AA070005	soil	2016	UTM83-9	528596	6855157	03-Aug-16	11.6	WHI16000236	0.0022	2.2
AA070006	soil	2016	UTM83-9	528593	6855156	03-Aug-16	11.6	WHI16000236	0.0015	1.5
AA070007	soil	2016	UTM83-9	528553	6855165	03-Aug-16	9.1	WHI16000236	0.0012	1.2
AA070008	soil	2016	UTM83-9	528495	6855141	03-Aug-16	87.9	WHI16000236	0.0137	13.7
AA070009	soil	2016	UTM83-9	528449	6855152	03-Aug-16	11.9	WHI16000236	0.0015	1.5
AA070010	soil	2016	UTM83-9	528412	6855150	03-Aug-16	9.7	WHI16000236	0.0027	2.7
AA070011	soil	2016	UTM83-9	528352	6855157	03-Aug-16	58.2	WHI16000236	0.0079	7.9
AA070012	soil	2016	UTM83-9	528302	6855152	03-Aug-16	15.4	WHI16000236	0.0013	1.3
AA070013	soil	2016	UTM83-9	528260	6855155	03-Aug-16	16.2	WHI16000236	0.003	3
AA070014	soil	2016	UTM83-9	530655	6852263	03-Aug-16	27.2	WHI16000236	0.0021	2.1

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA070015	soil	2016	UTM83-9	530603	6852258	03-Aug-16	20.3	WHI16000236	0.0015	1.5
AA070016	soil	2016	UTM83-9	530552	6852264	03-Aug-16	13.3	WHI16000236	0.0008	0.8
AA070017	soil	2016	UTM83-9	530469	6852362	03-Aug-16	15.4	WHI16000236	0.0019	1.9
AA070018	soil	2016	UTM83-9	530509	6852359	03-Aug-16	12.2	WHI16000236	0.0007	0.7
AA070019	soil	2016	UTM83-9	530554	6852358	03-Aug-16	15.8	WHI16000236	0.0013	1.3
AA070020	soil	2016	UTM83-9	530606	6852357	03-Aug-16	14.5	WHI16000236	0.0013	1.3
AA070021	soil	2016	UTM83-9	530654	6852357	03-Aug-16	12.2	WHI16000237	0.001	1
AA070022	soil	2016	UTM83-9	530656	6852457	03-Aug-16	19.2	WHI16000237	0.0038	3.8
AA070023	soil	2016	UTM83-9	530605	6852456	03-Aug-16	11.3	WHI16000237	0.0007	0.7
AA070024	soil	2016	UTM83-9	530555	6852459	03-Aug-16	15.7	WHI16000237	0.0023	2.3
AA070025	soil	2016	UTM83-9	530504	6852459	03-Aug-16	13.7	WHI16000237	0.0019	1.9
AA070026	soil	2016	UTM83-9	530458	6852455	03-Aug-16	12.1	WHI16000237	0.0015	1.5
AA070027	soil	2016	UTM83-9	530393	6852472	03-Aug-16	14.8	WHI16000237	0.0022	2.2
AA070028	soil	2016	UTM83-9	530355	6852459	03-Aug-16	12.2	WHI16000238	0.0062	6.2
AA070029	soil	2016	UTM83-9	530307	6852461	03-Aug-16	11.5	WHI16000238	0.0036	3.6
AA070030	soil	2016	UTM83-9	527577	6857440	03-Aug-16	19.5	WHI16000238	0.003	3
AA070031	soil	2016	UTM83-9	527528	6857437	03-Aug-16	84.9	WHI16000236	0.0027	2.7
AA070032	soil	2016	UTM83-9	527480	6857431	03-Aug-16	66.4	WHI16000236	0.0082	8.2
AA070033	soil	2016	UTM83-9	527436	6857428	03-Aug-16	55.3	WHI16000236	0.0035	3.5
AA070034	soil	2016	UTM83-9	527367	6857426	03-Aug-16	106.7	WHI16000236	0.0176	17.6
AA070035	soil	2016	UTM83-9	527323	6857426	03-Aug-16	110.2	WHI16000236	0.005	5
AA070036	soil	2016	UTM83-9	527281	6857424	03-Aug-16	69.2	WHI16000236	0.0026	2.6
AA070037	soil	2016	UTM83-9	527219	6857429	03-Aug-16	75.9	WHI16000236	0.0027	2.7
AA070038	soil	2016	UTM83-9	527174	6857438	03-Aug-16	75.1	WHI16000236	0.0084	8.4
AA070039	soil	2016	UTM83-9	527114	6857436	03-Aug-16	18.7	WHI16000236	0.0004	0.4
AA070040	soil	2016	UTM83-9	527071	6857444	03-Aug-16	35.2	WHI16000236	0.0043	4.3
AA070041	soil	2016	UTM83-9	527017	6857426	03-Aug-16	17.5	WHI16000236	0.0019	1.9
AA070042	soil	2016	UTM83-9	526971	6857436	03-Aug-16	17	WHI16000236	0.0021	2.1
AA070043	soil	2016	UTM83-9	526932	6857429	03-Aug-16	16.7	WHI16000236	0.0019	1.9
AA070044	soil	2016	UTM83-9	526864	6857436	03-Aug-16	2.2	WHI16000236	0.0001	0.1
AA070045	soil	2016	UTM83-9	526864	6857436	03-Aug-16	2	WHI16000236	0.0001	0.1
AA070046	soil	2016	UTM83-9	526824	6857436	03-Aug-16	5.8	WHI16000236	0.0399	39.9
AA070047	soil	2016	UTM83-9	526775	6857440	03-Aug-16	14	WHI16000236	0.0316	31.6
AA070048	soil	2016	UTM83-9	526728	6857446	03-Aug-16	3.5	WHI16000236	0.0048	4.8
AA070049	soil	2016	UTM83-9	526681	6857441	03-Aug-16	2.5	WHI16000236	0.0004	0.4
AA070050	soil	2016	UTM83-9	526627	6857435	03-Aug-16	6.3	WHI16000236	0.0055	5.5
AA070051	soil	2016	UTM83-9	529257	6852657	11-Aug-16	11.1	WHI16000237	0.0024	2.4
AA070052	soil	2016	UTM83-9	529212	6852654	11-Aug-16	38.5	WHI16000237	0.0148	14.8
AA070053	soil	2016	UTM83-9	529163	6852659	11-Aug-16	20.7	WHI16000237	0.0092	9.2
AA070054	soil	2016	UTM83-9	529111	6852658	11-Aug-16	18.8	WHI16000237	0.0029	2.9
AA070055	soil	2016	UTM83-9	529054	6852651	11-Aug-16	19.5	WHI16000237	0.0031	3.1
AA070056	soil	2016	UTM83-9	529011	6852653	11-Aug-16	13.3	WHI16000237	0.0014	1.4
AA070057	soil	2016	UTM83-9	528965	6852663	11-Aug-16	15.3	WHI16000237	0.0009	0.9
AA070058	soil	2016	UTM83-9	528907	6852658	11-Aug-16	18.2	WHI16000237	0.001	1
AA070059	soil	2016	UTM83-9	528859	6852663	11-Aug-16	17.6	WHI16000237	0.0013	1.3
AA070060	soil	2016	UTM83-9	528804	6852655	11-Aug-16	263.5	WHI16000237	0.0313	31.3
AA070061	soil	2016	UTM83-9	528766	6852651	11-Aug-16	332.4	WHI16000237	0.0235	23.5
AA070062	soil	2016	UTM83-9	528710	6852662	11-Aug-16	763.3	WHI16000237	0.074	74
AA070063	soil	2016	UTM83-9	528660	6852660	11-Aug-16	281.6	WHI16000237	0.0523	52.3
AA070064	soil	2016	UTM83-9	528301	6852853	11-Aug-16	84.3	WHI16000237	0.0226	22.6
AA070065	soil	2016	UTM83-9	528352	6852857	11-Aug-16	53.4	WHI16000237	0.0118	11.8
AA070066	soil	2016	UTM83-9	528409	6852860	11-Aug-16	56.2	WHI16000237	0.0122	12.2
AA070067	soil	2016	UTM83-9	528455	6852856	11-Aug-16	55	WHI16000237	0.0114	11.4
AA070068	soil	2016	UTM83-9	528338	6852760	11-Aug-16	70.3	WHI16000237	0.0134	13.4
AA070069	soil	2016	UTM83-9	527580	6857240	12-Aug-16	21	WHI16000237	0.0021	2.1
AA070070	soil	2016	UTM83-9	527530	6857247	12-Aug-16	45	WHI16000237	0.0025	2.5
AA070071	soil	2016	UTM83-9	527480	6857237	12-Aug-16	107.9	WHI16000237	0.0071	7.1
AA070072	soil	2016	UTM83-9	527480	6857237	12-Aug-16	108	WHI16000237	0.0074	7.4
AA070073	soil	2016	UTM83-9	527437	6857240	12-Aug-16	79.7	WHI16000237	0.0046	4.6
AA070074	soil	2016	UTM83-9	527381	6857232	12-Aug-16	43.2	WHI16000237	0.0028	2.8
AA070075	soil	2016	UTM83-9	527333	6857237	12-Aug-16	741.5	WHI16000237	0.0855	85.5

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA070076	soil	2016	UTM83-9	527285	6857234	12-Aug-16	254.5	WHI16000237	0.0168	16.8
AA070077	soil	2016	UTM83-9	527234	6857237	12-Aug-16	43.7	WHI16000237	0.0039	3.9
AA070078	soil	2016	UTM83-9	527171	6857227	12-Aug-16	119.4	WHI16000237	0.0441	44.1
AA070079	soil	2016	UTM83-9	527126	6857237	12-Aug-16	25.5	WHI16000237	0.0043	4.3
AA070080	soil	2016	UTM83-9	527076	6857234	12-Aug-16	9.3	WHI16000237	0.0016	1.6
AA070081	soil	2016	UTM83-9	527020	6857231	12-Aug-16	55.9	WHI16000237	0.007	7
AA070082	soil	2016	UTM83-9	526975	6857237	12-Aug-16	24.3	WHI16000237	0.0038	3.8
AA070083	soil	2016	UTM83-9	526925	6857233	12-Aug-16	42.9	WHI16000237	0.0056	5.6
AA070084	soil	2016	UTM83-9	526883	6857227	12-Aug-16	3.1	WHI16000237	0.0035	3.5
AA070085	soil	2016	UTM83-9	526836	6857230	12-Aug-16	27.4	WHI16000237	0.1282	128.2
AA070086	soil	2016	UTM83-9	526778	6857237	12-Aug-16	4.1	WHI16000237	0.001	1
AA070087	soil	2016	UTM83-9	526732	6857241	12-Aug-16	13.1	WHI16000237	0.0064	6.4
AA070088	soil	2016	UTM83-9	526673	6857236	12-Aug-16	6	WHI16000237	0.0031	3.1
AA070089	soil	2016	UTM83-9	526636	6857244	12-Aug-16	11.4	WHI16000237	0.0076	7.6
AA070090	soil	2016	UTM83-9	526571	6857235	12-Aug-16	3.5	WHI16000237	0.0033	3.3
AA070091	soil	2016	UTM83-9	526526	6857240	12-Aug-16	4.4	WHI16000237	0.0003	0.3
AA070092	soil	2016	UTM83-9	526477	6857241	12-Aug-16	96.1	WHI16000237	0.0117	11.7
AA070093	soil	2016	UTM83-9	526423	6857239	12-Aug-16	33.7	WHI16000237	0.0044	4.4
AA070094	soil	2016	UTM83-9	526374	6857240	12-Aug-16	40.9	WHI16000237	0.0073	7.3
AA070095	soil	2016	UTM83-9	526331	6857232	12-Aug-16	22.1	WHI16000237	0.0031	3.1
AA070096	soil	2016	UTM83-9	526285	6857233	12-Aug-16	26.9	WHI16000237	0.0011	1.1
AA070097	soil	2016	UTM83-9	527566	6856743	13-Aug-16	13.5	WHI16000237	0.0013	1.3
AA070098	soil	2016	UTM83-9	527530	6856737	13-Aug-16	22.7	WHI16000237	0.0039	3.9
AA070099	soil	2016	UTM83-9	527480	6856734	13-Aug-16	10.1	WHI16000237	0.0014	1.4
AA070100	soil	2016	UTM83-9	527416	6856740	13-Aug-16	14.1	WHI16000237	0.0035	3.5
AA070101	soil	2016	UTM83-9	529954	6855153	09-Aug-16	11.3	WHI16000234	0.0013	1.3
AA070102	soil	2016	UTM83-9	530001	6855153	09-Aug-16	16.5	WHI16000234	0.001	1
AA070103	soil	2016	UTM83-9	530056	6855158	09-Aug-16	6.2	WHI16000234	0.0014	1.4
AA070104	soil	2016	UTM83-9	530097	6855154	09-Aug-16	12.6	WHI16000234	0.0037	3.7
AA070105	soil	2016	UTM83-9	530151	6855160	09-Aug-16	6	WHI16000234	0.0011	1.1
AA070106	soil	2016	UTM83-9	530203	6855166	09-Aug-16	10.8	WHI16000234	0.0006	0.6
AA070107	soil	2016	UTM83-9	530203	6855166	09-Aug-16	8.9	WHI16000234	0.0008	0.8
AA070108	soil	2016	UTM83-9	530256	6855160	09-Aug-16	11.1	WHI16000234	0.0005	0.5
AA070109	soil	2016	UTM83-9	530301	6855156	09-Aug-16	10.8	WHI16000234	0.002	2
AA070110	soil	2016	UTM83-9	530352	6855157	09-Aug-16	11.7	WHI16000234	0.0014	1.4
AA070111	soil	2016	UTM83-9	530402	6855160	09-Aug-16	5.8	WHI16000237	0.0012	1.2
AA070112	soil	2016	UTM83-9	530454	6855160	09-Aug-16	7.4	WHI16000237	0.0011	1.1
AA070113	soil	2016	UTM83-9	530503	6855160	09-Aug-16	7.3	WHI16000237	0.001	1
AA070114	soil	2016	UTM83-9	530603	6855158	09-Aug-16	22.6	WHI16000237	0.0021	2.1
AA070115	soil	2016	UTM83-9	530647	6855158	09-Aug-16	20.8	WHI16000237	0.0025	2.5
AA070116	soil	2016	UTM83-9	529508	6852861	11-Aug-16	9	WHI16000237	0.0011	1.1
AA070117	soil	2016	UTM83-9	529460	6852862	11-Aug-16	5	WHI16000237	0.0015	1.5
AA070118	soil	2016	UTM83-9	529406	6852861	11-Aug-16	17.2	WHI16000237	0.002	2
AA070119	soil	2016	UTM83-9	529358	6852853	11-Aug-16	14.2	WHI16000237	0.0022	2.2
AA070120	soil	2016	UTM83-9	529302	6852860	11-Aug-16	10.5	WHI16000237	0.0006	0.6
AA070121	soil	2016	UTM83-9	529253	6852859	11-Aug-16	16.3	WHI16000238	0.0033	3.3
AA070122	soil	2016	UTM83-9	529204	6852853	11-Aug-16	32.3	WHI16000238	0.0088	8.8
AA070123	soil	2016	UTM83-9	529154	6852850	11-Aug-16	5.8	WHI16000238	0.0011	1.1
AA070124	soil	2016	UTM83-9	529101	6852865	11-Aug-16	6.1	WHI16000238	0.0001	0.1
AA070125	soil	2016	UTM83-9	529055	6852861	11-Aug-16	16.9	WHI16000238	0.0003	0.3
AA070126	soil	2016	UTM83-9	529002	6852860	11-Aug-16	9.1	WHI16000238	0.0022	2.2
AA070127	soil	2016	UTM83-9	528956	6852856	11-Aug-16	96.7	WHI16000238	0.0292	29.2
AA070128	soil	2016	UTM83-9	528902	6852856	11-Aug-16	17.9	WHI16000238	0.0049	4.9
AA070129	soil	2016	UTM83-9	528857	6852857	11-Aug-16	18.2	WHI16000238	0.0062	6.2
AA070130	soil	2016	UTM83-9	528806	6852858	11-Aug-16	27.8	WHI16000238	0.0097	9.7
AA070131	soil	2016	UTM83-9	528760	6852856	11-Aug-16	1041.4	WHI16000238	0.221	221
AA070132	soil	2016	UTM83-9	528705	6852855	11-Aug-16	387.4	WHI16000238	0.1389	138.9
AA070133	soil	2016	UTM83-9	528656	6852853	11-Aug-16	195.3	WHI16000238	0.0747	74.7
AA070134	soil	2016	UTM83-9	528604	6852860	11-Aug-16	301.7	WHI16000238	0.0652	65.2
AA070135	soil	2016	UTM83-9	528558	6852852	11-Aug-16	138.2	WHI16000238	0.0545	54.5
AA070136	soil	2016	UTM83-9	528502	6852858	11-Aug-16	56.3	WHI16000238	0.0135	13.5

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA070137	soil	2016	UTM83-9	527570	6857630	12-Aug-16	113.6	WHI16000238	0.0228	22.8
AA070138	soil	2016	UTM83-9	527526	6857635	12-Aug-16	379.5	WHI16000238	0.0186	18.6
AA070139	soil	2016	UTM83-9	527475	6857641	12-Aug-16	13.4	WHI16000238	0.0018	1.8
AA070140	soil	2016	UTM83-9	527425	6857629	12-Aug-16	12.8	WHI16000238	0.0013	1.3
AA070141	soil	2016	UTM83-9	527380	6857633	12-Aug-16	34.6	WHI16000236	0.0027	2.7
AA070142	soil	2016	UTM83-9	527324	6857638	12-Aug-16	13.8	WHI16000236	0.002	2
AA070143	soil	2016	UTM83-9	527275	6857634	12-Aug-16	90.2	WHI16000236	0.005	5
AA070144	soil	2016	UTM83-9	527225	6857635	12-Aug-16	N/A	WHI16000236	N/A	N/A
AA070145	soil	2016	UTM83-9	527235	6857642	12-Aug-16	N/A	WHI16000236	N/A	N/A
AA070146	soil	2016	UTM83-9	527131	6857641	12-Aug-16	334.3	WHI16000236	0.0395	39.5
AA070147	soil	2016	UTM83-9	527081	6857632	12-Aug-16	119.8	WHI16000236	0.034	34
AA070148	soil	2016	UTM83-9	527024	6857630	12-Aug-16	1	WHI16000236	0.0005	0.5
AA070149	soil	2016	UTM83-9	526968	6857630	12-Aug-16	16.3	WHI16000236	0.0049	4.9
AA070150	soil	2016	UTM83-9	526927	6857630	12-Aug-16	43.7	WHI16000236	0.0041	4.1
AA070151	soil	2016	UTM83-9	529008	6852756	11-Aug-16	33.1	WHI16000235	0.0046	4.6
AA070152	soil	2016	UTM83-9	528960	6852762	11-Aug-16	20.2	WHI16000235	0.0057	5.7
AA070153	soil	2016	UTM83-9	528900	6852756	11-Aug-16	20.4	WHI16000235	0.0029	2.9
AA070154	soil	2016	UTM83-9	528858	6852759	11-Aug-16	16.7	WHI16000235	0.0048	4.8
AA070155	soil	2016	UTM83-9	528802	6852752	11-Aug-16	18	WHI16000235	0.0025	2.5
AA070156	soil	2016	UTM83-9	528754	6852756	11-Aug-16	367.9	WHI16000235	0.0296	29.6
AA070157	soil	2016	UTM83-9	528700	6852761	11-Aug-16	1279.2	WHI16000235	0.1599	159.9
AA070158	soil	2016	UTM83-9	528656	6852758	11-Aug-16	249.1	WHI16000235	0.0251	25.1
AA070159	soil	2016	UTM83-9	528603	6852756	11-Aug-16	501.2	WHI16000235	0.083	83
AA070160	soil	2016	UTM83-9	528557	6852756	11-Aug-16	381.1	WHI16000235	0.0591	59.1
AA070161	soil	2016	UTM83-9	528502	6852759	11-Aug-16	464.7	WHI16000271	0.0735	73.5
AA070162	soil	2016	UTM83-9	528453	6852758	11-Aug-16	294.8	WHI16000271	0.0631	63.1
AA070163	soil	2016	UTM83-9	528405	6852761	11-Aug-16	252.4	WHI16000271	0.0374	37.4
AA070164	soil	2016	UTM83-9	527573	6857334	12-Aug-16	39.1	WHI16000271	0.0028	2.8
AA070165	soil	2016	UTM83-9	527527	6857347	12-Aug-16	61	WHI16000271	0.0045	4.5
AA070166	soil	2016	UTM83-9	527480	6857345	12-Aug-16	18.7	WHI16000271	0.0022	2.2
AA070167	soil	2016	UTM83-9	527429	6857339	12-Aug-16	206.6	WHI16000271	0.009	9
AA070168	soil	2016	UTM83-9	527378	6857335	12-Aug-16	59.1	WHI16000271	0.0017	1.7
AA070169	soil	2016	UTM83-9	527330	6857332	12-Aug-16	234.3	WHI16000271	0.0188	18.8
AA070170	soil	2016	UTM83-9	527277	6857333	12-Aug-16	125.6	WHI16000271	0.0061	6.1
AA070171	soil	2016	UTM83-9	527228	6857327	12-Aug-16	48.7	WHI16000236	0.0039	3.9
AA070172	soil	2016	UTM83-9	527177	6857334	12-Aug-16	72	WHI16000236	0.0093	9.3
AA070173	soil	2016	UTM83-9	527176	6857334	12-Aug-16	65.9	WHI16000236	0.0077	7.7
AA070174	soil	2016	UTM83-9	527123	6857334	12-Aug-16	49.3	WHI16000236	0.0025	2.5
AA070175	soil	2016	UTM83-9	527071	6857336	12-Aug-16	36.5	WHI16000236	0.0039	3.9
AA070176	soil	2016	UTM83-9	527027	6857330	12-Aug-16	40.2	WHI16000236	0.0049	4.9
AA070177	soil	2016	UTM83-9	526976	6857333	12-Aug-16	46.6	WHI16000236	0.004	4
AA070178	soil	2016	UTM83-9	526928	6857331	12-Aug-16	17.6	WHI16000236	0.0022	2.2
AA070179	soil	2016	UTM83-9	526874	6857335	12-Aug-16	16.4	WHI16000236	0.0044	4.4
AA070180	soil	2016	UTM83-9	526820	6857340	12-Aug-16	7.9	WHI16000236	0.0154	15.4
AA070181	soil	2016	UTM83-9	526780	6857341	12-Aug-16	2.2	WHI16000236	0.002	2
AA070182	soil	2016	UTM83-9	526733	6857342	12-Aug-16	9.2	WHI16000236	0.017	17
AA070183	soil	2016	UTM83-9	526683	6857335	12-Aug-16	3	WHI16000236	0.0011	1.1
AA070184	soil	2016	UTM83-9	526628	6857338	12-Aug-16	5.1	WHI16000236	0.0007	0.7
AA070185	soil	2016	UTM83-9	526577	6857332	12-Aug-16	3.5	WHI16000236	0.0047	4.7
AA070186	soil	2016	UTM83-9	526526	6857328	12-Aug-16	0.9	WHI16000236	0.0006	0.6
AA070187	soil	2016	UTM83-9	526474	6857330	12-Aug-16	4.8	WHI16000236	0.0023	2.3
AA070188	soil	2016	UTM83-9	526425	6857334	12-Aug-16	32.7	WHI16000236	0.0001	0.1
AA070189	soil	2016	UTM83-9	526380	6857330	12-Aug-16	19.7	WHI16000236	0.0017	1.7
AA070190	soil	2016	UTM83-9	526318	6857338	12-Aug-16	31.8	WHI16000236	0.0018	1.8
AA070191	soil	2016	UTM83-9	526279	6857335	12-Aug-16	51.6	WHI16000236	0.0021	2.1
AA070192	soil	2016	UTM83-9	526226	6857339	12-Aug-16	30.1	WHI16000236	0.0048	4.8
AA070193	soil	2016	UTM83-9	527578	6856836	13-Aug-16	9.8	WHI16000236	0.0017	1.7
AA070194	soil	2016	UTM83-9	527525	6856838	13-Aug-16	13.2	WHI16000236	0.0048	4.8
AA070195	soil	2016	UTM83-9	527473	6856839	13-Aug-16	9.3	WHI16000236	0.0016	1.6
AA070196	soil	2016	UTM83-9	527422	6856839	13-Aug-16	17.3	WHI16000236	0.0018	1.8
AA070197	soil	2016	UTM83-9	527375	6856844	13-Aug-16	13.7	WHI16000236	0.0086	8.6

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AA070198	soil	2016	UTM83-9	527327	6856838	13-Aug-16	92.2	WHI16000236	0.0076	7.6
AA070199	soil	2016	UTM83-9	527274	6856837	13-Aug-16	89.4	WHI16000236	0.0071	7.1
AA070200	soil	2016	UTM83-9	527222	6856837	13-Aug-16	18.2	WHI16000236	0.0015	1.5
AA070201	soil	2016	UTM83-9	527895	6855062	08-Aug-16	26.3	WHI16000235	0.005	5
AA070202	soil	2016	UTM83-9	527947	6855052	08-Aug-16	21.2	WHI16000235	0.002	2
AA070203	soil	2016	UTM83-9	528004	6855059	08-Aug-16	27.4	WHI16000235	0.0064	6.4
AA070204	soil	2016	UTM83-9	528049	6855047	08-Aug-16	19.3	WHI16000235	0.0045	4.5
AA070205	soil	2016	UTM83-9	528101	6855049	08-Aug-16	29.2	WHI16000235	0.0055	5.5
AA070206	soil	2016	UTM83-9	528147	6855072	08-Aug-16	11.8	WHI16000235	0.0043	4.3
AA070207	soil	2016	UTM83-9	528202	6855063	08-Aug-16	11.7	WHI16000235	0.0015	1.5
AA070208	soil	2016	UTM83-9	528252	6855063	08-Aug-16	10.7	WHI16000235	0.0048	4.8
AA070209	soil	2016	UTM83-9	529347	6855076	09-Aug-16	10.2	WHI16000235	0.0006	0.6
AA070210	soil	2016	UTM83-9	529355	6855065	09-Aug-16	5.3	WHI16000235	0.0016	1.6
AA070211	soil	2016	UTM83-9	529309	6855079	09-Aug-16	28.2	WHI16000235	0.0022	2.2
AA070212	soil	2016	UTM83-9	529252	6855074	09-Aug-16	17.7	WHI16000235	0.0034	3.4
AA070213	soil	2016	UTM83-9	529213	6855074	09-Aug-16	28.5	WHI16000235	0.0047	4.7
AA070214	soil	2016	UTM83-9	529163	6855061	09-Aug-16	12.4	WHI16000235	0.0022	2.2
AA070215	soil	2016	UTM83-9	529107	6855046	09-Aug-16	12.8	WHI16000235	0.0026	2.6
AA070216	soil	2016	UTM83-9	529046	6855036	09-Aug-16	10.6	WHI16000235	0.0021	2.1
AA070217	soil	2016	UTM83-9	528978	6855058	09-Aug-16	16.2	WHI16000235	0.0026	2.6
AA070218	soil	2016	UTM83-9	528949	6855076	09-Aug-16	8.1	WHI16000235	0.0035	3.5
AA070219	soil	2016	UTM83-9	528904	6855063	09-Aug-16	15.3	WHI16000235	0.0007	0.7
AA070220	soil	2016	UTM83-9	528850	6855051	09-Aug-16	18.2	WHI16000235	0.0034	3.4
AA070221	soil	2016	UTM83-9	528798	6855061	09-Aug-16	15.1	WHI16000235	0.0008	0.8
AA070222	soil	2016	UTM83-9	528749	6855057	09-Aug-16	12.6	WHI16000235	0.0022	2.2
AA070223	soil	2016	UTM83-9	528701	6855059	09-Aug-16	14.6	WHI16000235	0.0038	3.8
AA070224	soil	2016	UTM83-9	528657	6855066	09-Aug-16	16.6	WHI16000235	0.0046	4.6
AA070225	soil	2016	UTM83-9	528607	6855070	09-Aug-16	11	WHI16000235	0.0019	1.9
AA070226	soil	2016	UTM83-9	528547	6855080	09-Aug-16	18.8	WHI16000235	0.0011	1.1
AA070227	soil	2016	UTM83-9	528501	6855057	09-Aug-16	10.8	WHI16000235	0.0018	1.8
AA070228	soil	2016	UTM83-9	528454	6855058	09-Aug-16	10.5	WHI16000235	0.0017	1.7
AA070229	soil	2016	UTM83-9	528404	6855052	09-Aug-16	9.3	WHI16000235	0.002	2
AA070230	soil	2016	UTM83-9	528338	6855051	09-Aug-16	9.4	WHI16000235	0.0013	1.3
AA070231	soil	2016	UTM83-9	528315	6855059	09-Aug-16	12.6	WHI16000238	0.0017	1.7
AA070232	soil	2016	UTM83-9	528242	6854765	09-Aug-16	9	WHI16000238	0.0017	1.7
AA070233	soil	2016	UTM83-9	526272	6857536	12-Aug-16	10.5	WHI16000238	0.0021	2.1
AA070234	soil	2016	UTM83-9	526229	6857529	12-Aug-16	15.7	WHI16000238	0.0031	3.1
AA070235	soil	2016	UTM83-9	526193	6857546	12-Aug-16	34.5	WHI16000238	0.0034	3.4
AA070236	soil	2016	UTM83-9	526186	6857551	12-Aug-16	22.5	WHI16000238	0.0032	3.2
AA070237	soil	2016	UTM83-9	527575	6857035	13-Aug-16	22.6	WHI16000238	0.0038	3.8
AA070238	soil	2016	UTM83-9	527529	6857039	13-Aug-16	11.2	WHI16000238	0.0028	2.8
AA070239	soil	2016	UTM83-9	527478	6857036	13-Aug-16	9.1	WHI16000238	0.0036	3.6
AA070240	soil	2016	UTM83-9	527431	6857030	13-Aug-16	70.7	WHI16000238	0.0058	5.8
AA070241	soil	2016	UTM83-9	527378	6857031	13-Aug-16	10	WHI16000238	0.0045	4.5
AA070242	soil	2016	UTM83-9	527328	6857023	13-Aug-16	16.8	WHI16000238	0.0034	3.4
AA070243	soil	2016	UTM83-9	527279	6857046	13-Aug-16	36.5	WHI16000238	0.0057	5.7
AA070244	soil	2016	UTM83-9	527216	6857032	13-Aug-16	189.4	WHI16000238	0.0261	26.1
AA070245	soil	2016	UTM83-9	527172	6857037	13-Aug-16	164.6	WHI16000238	0.0294	29.4
AA070247	soil	2016	UTM83-9	526826	6857042	13-Aug-16	24.2	WHI16000238	0.0151	15.1
AA070248	soil	2016	UTM83-9	527123	6857026	13-Aug-16	170.7	WHI16000238	0.0214	21.4
AA070249	soil	2016	UTM83-9	527076	6857028	13-Aug-16	51.9	WHI16000238	0.0065	6.5
AA070250	soil	2016	UTM83-9	527017	6857028	13-Aug-16	20.4	WHI16000238	0.0039	3.9
AA070251	soil	2016	UTM83-9	527795	6854754	08-Aug-16	11.9	WHI16000238	0.0018	1.8
AA070252	soil	2016	UTM83-9	527844	6854758	08-Aug-16	27.9	WHI16000238	0.0022	2.2
AA070253	soil	2016	UTM83-9	527907	6854744	08-Aug-16	56.9	WHI16000238	0.0072	7.2
AA070254	soil	2016	UTM83-9	527991	6854771	08-Aug-16	19	WHI16000238	0.0023	2.3
AA070255	soil	2016	UTM83-9	528060	6854772	08-Aug-16	23.5	WHI16000238	0.0047	4.7
AA070256	soil	2016	UTM83-9	528108	6854763	08-Aug-16	27.4	WHI16000238	0.0021	2.1
AA070257	soil	2016	UTM83-9	528152	6854764	08-Aug-16	35.8	WHI16000238	0.0026	2.6
AA070258	soil	2016	UTM83-9	528205	6854754	08-Aug-16	35.8	WHI16000238	0.0016	1.6
AA070259	soil	2016	UTM83-9	529420	6854971	09-Aug-16	9.7	WHI16000238	0.0012	1.2

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AA070260	soil	2016	UTM83-9	529450	6854962	09-Aug-16	10.2	WHI16000238	0.0012	1.2
AA070261	soil	2016	UTM83-9	529496	6854963	09-Aug-16	7.5	WHI16000271	0.0022	2.2
AA070262	soil	2016	UTM83-9	529557	6854958	09-Aug-16	33.1	WHI16000271	0.0054	5.4
AA070263	soil	2016	UTM83-9	529593	6854960	09-Aug-16	109.9	WHI16000271	0.0136	13.6
AA070264	soil	2016	UTM83-9	527773	6848446	20-Aug-16	25.8	WHI16000271	0.0013	1.3
AA070265	soil	2016	UTM83-9	527825	6848374	20-Aug-16	33.3	WHI16000271	0.007	7
AA070266	soil	2016	UTM83-9	527875	6848280	20-Aug-16	16.6	WHI16000271	0.0023	2.3
AA070267	soil	2016	UTM83-9	527917	6848191	20-Aug-16	20.2	WHI16000271	0.0052	5.2
AA070268	soil	2016	UTM83-9	527963	6848114	20-Aug-16	17.7	WHI16000271	0.003	3
AA070269	soil	2016	UTM83-9	528030	6848062	20-Aug-16	17.5	WHI16000271	0.0001	0.1
AA070270	soil	2016	UTM83-9	528068	6847964	20-Aug-16	20.4	WHI16000271	0.001	1
AA070271	soil	2016	UTM83-9	528121	6847865	20-Aug-16	27.9	WHI16000271	0.0038	3.8
AA070272	soil	2016	UTM83-9	528162	6847801	20-Aug-16	13.2	WHI16000271	0.0003	0.3
AA070273	soil	2016	UTM83-9	528198	6847714	20-Aug-16	13.6	WHI16000271	0.0009	0.9
AA070274	soil	2016	UTM83-9	528265	6847619	20-Aug-16	31.9	WHI16000271	0.0017	1.7
AA070275	soil	2016	UTM83-9	528301	6847506	20-Aug-16	23.1	WHI16000271	0.0006	0.6
AA070276	soil	2016	UTM83-9	534811	6847900	22-Aug-16	12	WHI16000271	0.0019	1.9
AA070277	soil	2016	UTM83-9	534902	6847932	22-Aug-16	24.3	WHI16000271	0.0012	1.2
AA070278	soil	2016	UTM83-9	534995	6847960	22-Aug-16	16.1	WHI16000271	0.0045	4.5
AA070279	soil	2016	UTM83-9	535112	6848028	22-Aug-16	13.4	WHI16000271	0.0019	1.9
AA070280	soil	2016	UTM83-9	535192	6848057	22-Aug-16	24.4	WHI16000271	0.0018	1.8
AA070281	soil	2016	UTM83-9	535261	6848107	22-Aug-16	12.3	WHI16000271	0.0012	1.2
AA070282	soil	2016	UTM83-9	535352	6848149	22-Aug-16	16.6	WHI16000271	0.0004	0.4
AA070283	soil	2016	UTM83-9	535451	6848206	22-Aug-16	10.3	WHI16000271	0.0003	0.3
AA070284	soil	2016	UTM83-9	535530	6848262	22-Aug-16	10	WHI16000271	0.0007	0.7
AA070285	soil	2016	UTM83-9	535617	6848331	22-Aug-16	13.5	WHI16000271	0.0001	0.1
AA070286	soil	2016	UTM83-9	535681	6848380	22-Aug-16	19	WHI16000271	0.0001	0.1
AA070287	soil	2016	UTM83-9	535763	6848439	22-Aug-16	24.6	WHI16000271	0.0004	0.4
AA070288	soil	2016	UTM83-9	535839	6848494	22-Aug-16	20.9	WHI16000271	0.0002	0.2
AA070289	soil	2016	UTM83-9	535935	6848537	22-Aug-16	22.9	WHI16000271	0.0015	1.5
AA070290	soil	2016	UTM83-9	536012	6848618	22-Aug-16	50.1	WHI16000271	0.0033	3.3
AA070291	soil	2016	UTM83-9	536094	6848662	22-Aug-16	26.6	WHI16000271	0.0013	1.3
AA070292	soil	2016	UTM83-9	536172	6848725	22-Aug-16	30	WHI16000271	0.0013	1.3
AA070293	soil	2016	UTM83-9	536172	6848725	22-Aug-16	26.6	WHI16000271	0.0014	1.4
AA070294	soil	2016	UTM83-9	536253	6848778	22-Aug-16	26.3	WHI16000271	0.0017	1.7
AA070295	soil	2016	UTM83-9	536349	6848801	22-Aug-16	44.2	WHI16000271	0.0001	0.1
AA070296	soil	2016	UTM83-9	536434	6848810	22-Aug-16	6.5	WHI16000271	0.0012	1.2
AA070297	soil	2016	UTM83-9	536553	6848798	22-Aug-16	12.1	WHI16000271	0.0016	1.6
AA070298	soil	2016	UTM83-9	536643	6848788	22-Aug-16	10.6	WHI16000271	0.0025	2.5
AA070299	soil	2016	UTM83-9	533592	6855105	23-Aug-16	7.1	WHI16000271	0.0016	1.6
AA070300	soil	2016	UTM83-9	533609	6855200	23-Aug-16	12.7	WHI16000271	0.0017	1.7
AA070301	soil	2016	UTM83-9	527379	6856740	13-Aug-16	51.7	WHI16000237	0.0033	3.3
AA070302	soil	2016	UTM83-9	527331	6856739	13-Aug-16	14.8	WHI16000237	0.0015	1.5
AA070303	soil	2016	UTM83-9	527277	6856739	13-Aug-16	36.3	WHI16000237	0.0029	2.9
AA070304	soil	2016	UTM83-9	527225	6856738	13-Aug-16	41	WHI16000237	0.004	4
AA070305	soil	2016	UTM83-9	527173	6856736	13-Aug-16	12.2	WHI16000237	0.002	2
AA070306	soil	2016	UTM83-9	527127	6856738	13-Aug-16	22.6	WHI16000237	0.0012	1.2
AA070307	soil	2016	UTM83-9	527083	6856736	13-Aug-16	14.2	WHI16000237	0.0013	1.3
AA070308	soil	2016	UTM83-9	527026	6856734	13-Aug-16	32.2	WHI16000237	0.0094	9.4
AA070309	soil	2016	UTM83-9	526983	6856736	13-Aug-16	2.1	WHI16000237	0.0013	1.3
AA070310	soil	2016	UTM83-9	526931	6856744	13-Aug-16	7.7	WHI16000237	0.0048	4.8
AA070311	soil	2016	UTM83-9	526930	6856747	13-Aug-16	7.6	WHI16000237	0.0047	4.7
AA070312	soil	2016	UTM83-9	526877	6856733	13-Aug-16	18.1	WHI16000237	0.0719	71.9
AA070313	soil	2016	UTM83-9	526829	6856731	13-Aug-16	22.4	WHI16000237	0.0027	2.7
AA070314	soil	2016	UTM83-9	526780	6856741	13-Aug-16	14.4	WHI16000237	0.0434	43.4
AA070315	soil	2016	UTM83-9	526726	6856741	13-Aug-16	48.8	WHI16000237	0.0053	5.3
AA070316	soil	2016	UTM83-9	526682	6856740	13-Aug-16	50.9	WHI16000237	0.0047	4.7
AA070317	soil	2016	UTM83-9	526635	6856739	13-Aug-16	40.8	WHI16000237	0.0042	4.2
AA070318	soil	2016	UTM83-9	526583	6856737	13-Aug-16	45.1	WHI16000237	0.0017	1.7
AA070319	soil	2016	UTM83-9	526528	6856726	13-Aug-16	155.1	WHI16000237	0.0094	9.4
AA070320	soil	2016	UTM83-9	526481	6856734	13-Aug-16	46.6	WHI16000237	0.0028	2.8

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA070321	soil	2016	UTM83-9	526434	6856732	13-Aug-16	55.8	WHI16000237	0.005	5
AA070322	soil	2016	UTM83-9	526386	6856743	13-Aug-16	38.4	WHI16000237	0.0004	0.4
AA070323	soil	2016	UTM83-9	526329	6856738	13-Aug-16	21.6	WHI16000237	0.0014	1.4
AA070324	soil	2016	UTM83-9	526271	6856743	13-Aug-16	18.9	WHI16000237	0.0019	1.9
AA070325	soil	2016	UTM83-9	526230	6856738	13-Aug-16	46.2	WHI16000237	0.0252	25.2
AA070326	soil	2016	UTM83-9	526184	6856740	13-Aug-16	30.1	WHI16000237	0.0023	2.3
AA070327	soil	2016	UTM83-9	526138	6856726	13-Aug-16	11.3	WHI16000237	0.0027	2.7
AA070328	soil	2016	UTM83-9	527580	6856242	14-Aug-16	25.2	WHI16000237	0.0013	1.3
AA070329	soil	2016	UTM83-9	527528	6856237	14-Aug-16	32	WHI16000237	0.0008	0.8
AA070330	soil	2016	UTM83-9	527478	6856236	14-Aug-16	85.6	WHI16000237	0.0093	9.3
AA070331	soil	2016	UTM83-9	527434	6856244	14-Aug-16	325.3	WHI16000237	0.1421	142.1
AA070332	soil	2016	UTM83-9	527379	6856236	14-Aug-16	548.6	WHI16000237	0.0804	80.4
AA070333	soil	2016	UTM83-9	527329	6856235	14-Aug-16	179.7	WHI16000237	0.0507	50.7
AA070334	soil	2016	UTM83-9	527279	6856227	14-Aug-16	75.4	WHI16000237	0.0047	4.7
AA070335	soil	2016	UTM83-9	527228	6856236	14-Aug-16	16.7	WHI16000237	0.0013	1.3
AA070336	soil	2016	UTM83-9	527183	6856245	14-Aug-16	31.1	WHI16000237	0.0019	1.9
AA070337	soil	2016	UTM83-9	527128	6856241	14-Aug-16	29.4	WHI16000237	0.0019	1.9
AA070338	soil	2016	UTM83-9	527078	6856240	14-Aug-16	19.2	WHI16000237	0.0032	3.2
AA070339	soil	2016	UTM83-9	527027	6856240	14-Aug-16	19.4	WHI16000237	0.0021	2.1
AA070340	soil	2016	UTM83-9	526980	6856244	14-Aug-16	36.9	WHI16000237	0.0069	6.9
AA070341	soil	2016	UTM83-9	526934	6856237	14-Aug-16	23.8	WHI16000237	0.0029	2.9
AA070342	soil	2016	UTM83-9	526886	6856242	14-Aug-16	21.6	WHI16000237	0.0011	1.1
AA070343	soil	2016	UTM83-9	526827	6856246	14-Aug-16	44	WHI16000237	0.0014	1.4
AA070344	soil	2016	UTM83-9	526780	6856242	14-Aug-16	36.8	WHI16000237	0.0042	4.2
AA070345	soil	2016	UTM83-9	526727	6856244	14-Aug-16	19.9	WHI16000237	0.0015	1.5
AA070346	soil	2016	UTM83-9	526677	6856233	14-Aug-16	21	WHI16000237	0.0014	1.4
AA070347	soil	2016	UTM83-9	526628	6856234	14-Aug-16	16.6	WHI16000237	0.0029	2.9
AA070348	soil	2016	UTM83-9	526578	6856240	14-Aug-16	21.6	WHI16000237	0.0013	1.3
AA070349	soil	2016	UTM83-9	526535	6856242	14-Aug-16	19.8	WHI16000237	0.0011	1.1
AA070350	soil	2016	UTM83-9	526535	6856242	14-Aug-16	24.7	WHI16000237	0.0025	2.5
AA070351	soil	2016	UTM83-9	527177	6856842	13-Aug-16	21.7	WHI16000237	0.0029	2.9
AA070352	soil	2016	UTM83-9	527122	6856832	13-Aug-16	2.9	WHI16000237	0.0014	1.4
AA070353	soil	2016	UTM83-9	527074	6856835	13-Aug-16	9.3	WHI16000237	0.0044	4.4
AA070354	soil	2016	UTM83-9	527025	6856838	13-Aug-16	18.9	WHI16000237	0.0034	3.4
AA070355	soil	2016	UTM83-9	526970	6856837	13-Aug-16	28.4	WHI16000237	0.0028	2.8
AA070356	soil	2016	UTM83-9	526928	6856839	13-Aug-16	19.1	WHI16000237	0.0097	9.7
AA070357	soil	2016	UTM83-9	526871	6856837	13-Aug-16	9.2	WHI16000237	0.0202	20.2
AA070358	soil	2016	UTM83-9	526825	6856837	13-Aug-16	3.8	WHI16000237	0.0095	9.5
AA070359	soil	2016	UTM83-9	526776	6856834	13-Aug-16	12.4	WHI16000237	0.0159	15.9
AA070360	soil	2016	UTM83-9	526723	6856834	13-Aug-16	13.1	WHI16000237	0.0001	0.1
AA070361	soil	2016	UTM83-9	526677	6856836	13-Aug-16	23	WHI16000237	0.004	4
AA070362	soil	2016	UTM83-9	526621	6856838	13-Aug-16	13.5	WHI16000237	0.0059	5.9
AA070363	soil	2016	UTM83-9	526580	6856838	13-Aug-16	60.8	WHI16000237	0.008	8
AA070364	soil	2016	UTM83-9	526532	6856839	13-Aug-16	28	WHI16000237	0.0046	4.6
AA070365	soil	2016	UTM83-9	526482	6856832	13-Aug-16	24.7	WHI16000237	0.0026	2.6
AA070366	soil	2016	UTM83-9	526429	6856844	13-Aug-16	26.2	WHI16000237	0.002	2
AA070367	soil	2016	UTM83-9	526373	6856829	13-Aug-16	341.4	WHI16000237	0.0034	3.4
AA070368	soil	2016	UTM83-9	526329	6856837	13-Aug-16	9.4	WHI16000237	0.0012	1.2
AA070369	soil	2016	UTM83-9	526275	6856836	13-Aug-16	12.6	WHI16000237	0.0097	9.7
AA070370	soil	2016	UTM83-9	526227	6856848	13-Aug-16	6.6	WHI16000237	0.0009	0.9
AA070371	soil	2016	UTM83-9	526178	6856844	13-Aug-16	40.3	WHI16000237	0.0139	13.9
AA070372	soil	2016	UTM83-9	526129	6856842	13-Aug-16	44.2	WHI16000237	0.0088	8.8
AA070373	soil	2016	UTM83-9	527579	6856339	14-Aug-16	20.8	WHI16000237	0.0054	5.4
AA070374	soil	2016	UTM83-9	527529	6856336	14-Aug-16	17.9	WHI16000237	0.0024	2.4
AA070375	soil	2016	UTM83-9	527529	6856336	14-Aug-16	10.9	WHI16000237	0.0018	1.8
AA070376	soil	2016	UTM83-9	527478	6856341	14-Aug-16	38.4	WHI16000237	0.0031	3.1
AA070377	soil	2016	UTM83-9	527430	6856334	14-Aug-16	16.5	WHI16000237	0.0045	4.5
AA070378	soil	2016	UTM83-9	527381	6856332	14-Aug-16	1302.2	WHI16000237	1.1243	1124.3
AA070379	soil	2016	UTM83-9	527327	6856341	14-Aug-16	131.2	WHI16000237	0.0134	13.4
AA070380	soil	2016	UTM83-9	527274	6856336	14-Aug-16	628.3	WHI16000237	0.0152	15.2
AA070381	soil	2016	UTM83-9	527225	6856338	14-Aug-16	61.6	WHI16000237	0.0039	3.9

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA070382	soil	2016	UTM83-9	527178	6856342	14-Aug-16	55.3	WHI16000237	0.0056	5.6
AA070383	soil	2016	UTM83-9	527130	6856347	14-Aug-16	48.4	WHI16000237	0.0069	6.9
AA070384	soil	2016	UTM83-9	527074	6856342	14-Aug-16	28.5	WHI16000237	0.0021	2.1
AA070385	soil	2016	UTM83-9	527025	6856343	14-Aug-16	34.6	WHI16000237	0.0053	5.3
AA070386	soil	2016	UTM83-9	526980	6856345	14-Aug-16	153.9	WHI16000237	0.0068	6.8
AA070387	soil	2016	UTM83-9	526920	6856344	14-Aug-16	33.4	WHI16000237	0.0026	2.6
AA070388	soil	2016	UTM83-9	526875	6856340	14-Aug-16	45.9	WHI16000237	0.0036	3.6
AA070389	soil	2016	UTM83-9	526820	6856340	14-Aug-16	27.7	WHI16000237	0.0159	15.9
AA070390	soil	2016	UTM83-9	526775	6856343	14-Aug-16	25.4	WHI16000237	0.0029	2.9
AA070391	soil	2016	UTM83-9	526722	6856340	14-Aug-16	25.4	WHI16000237	0.0034	3.4
AA070392	soil	2016	UTM83-9	526673	6856337	14-Aug-16	22.9	WHI16000237	0.002	2
AA070393	soil	2016	UTM83-9	526630	6856333	14-Aug-16	15	WHI16000237	0.0006	0.6
AA070394	soil	2016	UTM83-9	526581	6856338	14-Aug-16	7.8	WHI16000237	0.0005	0.5
AA070395	soil	2016	UTM83-9	526527	6856345	14-Aug-16	11.1	WHI16000237	0.0004	0.4
AA070396	soil	2016	UTM83-9	526474	6856339	14-Aug-16	39.3	WHI16000237	0.0037	3.7
AA070397	soil	2016	UTM83-9	526429	6856339	14-Aug-16	15.5	WHI16000237	0.0028	2.8
AA070398	soil	2016	UTM83-9	526376	6856344	14-Aug-16	21.5	WHI16000237	0.0025	2.5
AA070399	soil	2016	UTM83-9	526329	6856339	14-Aug-16	5.6	WHI16000237	0.002	2
AA070400	soil	2016	UTM83-9	526276	6856340	14-Aug-16	12	WHI16000237	0.0019	1.9
AA070401	soil	2016	UTM83-9	526876	6857637	12-Aug-16	17.4	WHI16000237	0.0047	4.7
AA070402	soil	2016	UTM83-9	526827	6857646	12-Aug-16	15.1	WHI16000237	0.0021	2.1
AA070403	soil	2016	UTM83-9	526774	6857642	12-Aug-16	0.6	WHI16000237	0.0002	0.2
AA070404	soil	2016	UTM83-9	526723	6857639	12-Aug-16	2.1	WHI16000237	0.0015	1.5
AA070405	soil	2016	UTM83-9	526671	6857644	12-Aug-16	3.2	WHI16000237	0.0005	0.5
AA070406	soil	2016	UTM83-9	526624	6857642	12-Aug-16	2.1	WHI16000237	0.0454	45.4
AA070407	soil	2016	UTM83-9	526578	6857634	12-Aug-16	1.2	WHI16000237	0.0018	1.8
AA070408	soil	2016	UTM83-9	526525	6857630	12-Aug-16	2.3	WHI16000237	0.0017	1.7
AA070409	soil	2016	UTM83-9	526480	6857629	12-Aug-16	21.8	WHI16000237	0.0029	2.9
AA070410	soil	2016	UTM83-9	526434	6857630	12-Aug-16	19.7	WHI16000237	0.0013	1.3
AA070411	soil	2016	UTM83-9	526372	6857637	12-Aug-16	0.4	WHI16000237	0.0001	0.1
AA070412	soil	2016	UTM83-9	526323	6857640	12-Aug-16	38.7	WHI16000237	0.0027	2.7
AA070413	soil	2016	UTM83-9	526273	6857638	12-Aug-16	48.6	WHI16000237	0.0042	4.2
AA070414	soil	2016	UTM83-9	526223	6857639	12-Aug-16	55.5	WHI16000237	0.0038	3.8
AA070415	soil	2016	UTM83-9	526170	6857628	12-Aug-16	44.6	WHI16000237	0.0043	4.3
AA070416	soil	2016	UTM83-9	526131	6857543	12-Aug-16	13.2	WHI16000237	0.0004	0.4
AA070417	soil	2016	UTM83-9	527575	6857135	13-Aug-16	8.9	WHI16000237	0.0015	1.5
AA070418	soil	2016	UTM83-9	527525	6857140	13-Aug-16	10.3	WHI16000237	0.001	1
AA070419	soil	2016	UTM83-9	527475	6857140	13-Aug-16	25.7	WHI16000237	0.0021	2.1
AA070420	soil	2016	UTM83-9	527431	6857140	13-Aug-16	31	WHI16000237	0.0035	3.5
AA070421	soil	2016	UTM83-9	527369	6857141	13-Aug-16	787.9	WHI16000237	0.0529	52.9
AA070422	soil	2016	UTM83-9	527327	6857140	13-Aug-16	28.8	WHI16000237	0.005	5
AA070423	soil	2016	UTM83-9	527274	6857135	13-Aug-16	30.7	WHI16000237	0.0077	7.7
AA070424	soil	2016	UTM83-9	527225	6857136	13-Aug-16	70.8	WHI16000237	0.0105	10.5
AA070425	soil	2016	UTM83-9	527176	6857132	13-Aug-16	107.6	WHI16000237	0.0142	14.2
AA070426	soil	2016	UTM83-9	527129	6857139	13-Aug-16	171.7	WHI16000237	0.009	9
AA070427	soil	2016	UTM83-9	527076	6857135	13-Aug-16	136.8	WHI16000237	0.0121	12.1
AA070428	soil	2016	UTM83-9	527027	6857139	13-Aug-16	44.6	WHI16000237	0.0053	5.3
AA070429	soil	2016	UTM83-9	526976	6857126	13-Aug-16	17.3	WHI16000237	0.0057	5.7
AA070430	soil	2016	UTM83-9	526927	6857138	13-Aug-16	8.4	WHI16000237	0.0007	0.7
AA070431	soil	2016	UTM83-9	526873	6857134	13-Aug-16	9.3	WHI16000237	0.0011	1.1
AA070432	soil	2016	UTM83-9	526823	6857133	13-Aug-16	13.6	WHI16000237	0.0021	2.1
AA070433	soil	2016	UTM83-9	526770	6857140	13-Aug-16	8	WHI16000237	0.0056	5.6
AA070434	soil	2016	UTM83-9	526717	6857140	13-Aug-16	6.1	WHI16000237	0.0036	3.6
AA070435	soil	2016	UTM83-9	526669	6857132	13-Aug-16	4.1	WHI16000237	0.0004	0.4
AA070436	soil	2016	UTM83-9	526621	6857137	13-Aug-16	3.5	WHI16000237	0.0003	0.3
AA070437	soil	2016	UTM83-9	526570	6857138	13-Aug-16	11	WHI16000237	0.0005	0.5
AA070438	soil	2016	UTM83-9	526529	6857136	13-Aug-16	16.8	WHI16000237	0.0041	4.1
AA070439	soil	2016	UTM83-9	526475	6857133	13-Aug-16	17	WHI16000237	0.0025	2.5
AA070440	soil	2016	UTM83-9	526425	6857139	13-Aug-16	44.8	WHI16000237	0.0056	5.6
AA070441	soil	2016	UTM83-9	526425	6857139	13-Aug-16	46.1	WHI16000237	0.0069	6.9
AA070442	soil	2016	UTM83-9	526380	6857137	13-Aug-16	36.8	WHI16000237	0.0057	5.7

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA070443	soil	2016	UTM83-9	526334	6857139	13-Aug-16	27.6	WHI16000237	0.0036	3.6
AA070444	soil	2016	UTM83-9	526277	6857141	13-Aug-16	N/A	WHI16000237	N/A	N/A
AA070445	soil	2016	UTM83-9	526223	6857126	13-Aug-16	27.8	WHI16000237	0.0026	2.6
AA070446	soil	2016	UTM83-9	526175	6857136	13-Aug-16	26	WHI16000237	0.003	3
AA070447	soil	2016	UTM83-9	526140	6857126	13-Aug-16	39.1	WHI16000237	0.0069	6.9
AA070448	soil	2016	UTM83-9	526123	6857338	13-Aug-16	39	WHI16000237	0.0043	4.3
AA070449	soil	2016	UTM83-9	526117	6857430	13-Aug-16	28.6	WHI16000237	0.0023	2.3
AA070450	soil	2016	UTM83-9	526171	6857438	13-Aug-16	39.4	WHI16000237	0.0056	5.6
AA070451	soil	2016	UTM83-9	526976	6857026	13-Aug-16	21.4	WHI16000237	0.0017	1.7
AA070452	soil	2016	UTM83-9	526922	6857028	13-Aug-16	10.7	WHI16000237	0.0018	1.8
AA070453	soil	2016	UTM83-9	526875	6857033	13-Aug-16	23	WHI16000237	0.001	1
AA070454	soil	2016	UTM83-9	526778	6857043	13-Aug-16	14.3	WHI16000237	0.0003	0.3
AA070455	soil	2016	UTM83-9	526725	6857036	13-Aug-16	12.7	WHI16000237	0.0021	2.1
AA070456	soil	2016	UTM83-9	526670	6857037	13-Aug-16	1.7	WHI16000237	0.0055	5.5
AA070457	soil	2016	UTM83-9	526622	6857035	13-Aug-16	7.9	WHI16000237	0.003	3
AA070458	soil	2016	UTM83-9	526579	6857025	13-Aug-16	14.5	WHI16000237	0.0041	4.1
AA070459	soil	2016	UTM83-9	526521	6857020	13-Aug-16	27.2	WHI16000237	0.0024	2.4
AA070460	soil	2016	UTM83-9	526482	6857031	13-Aug-16	61.3	WHI16000237	0.0111	11.1
AA070461	soil	2016	UTM83-9	526431	6857036	13-Aug-16	123.3	WHI16000237	0.0095	9.5
AA070462	soil	2016	UTM83-9	526369	6857032	13-Aug-16	36	WHI16000237	0.0018	1.8
AA070463	soil	2016	UTM83-9	526321	6857021	13-Aug-16	15.8	WHI16000237	0.0009	0.9
AA070464	soil	2016	UTM83-9	526278	6857033	13-Aug-16	65	WHI16000237	0.0028	2.8
AA070465	soil	2016	UTM83-9	526231	6857037	13-Aug-16	70.2	WHI16000237	0.0024	2.4
AA070466	soil	2016	UTM83-9	526180	6857042	13-Aug-16	52.5	WHI16000237	0.0036	3.6
AA070467	soil	2016	UTM83-9	526134	6857038	13-Aug-16	47	WHI16000237	0.0038	3.8
AA070468	soil	2016	UTM83-9	526109	6857242	13-Aug-16	21.4	WHI16000237	0.0019	1.9
AA070469	soil	2016	UTM83-9	526168	6857233	13-Aug-16	92.9	WHI16000237	0.0068	6.8
AA070470	soil	2016	UTM83-9	526222	6857234	13-Aug-16	41.1	WHI16000237	0.0022	2.2
AA070471	soil	2016	UTM83-9	526171	6857334	13-Aug-16	43.9	WHI16000237	0.0025	2.5
AA070473	soil	2016	UTM83-9	526219	6857437	13-Aug-16	91.1	WHI16000237	0.0083	8.3
AA070474	soil	2016	UTM83-9	527577	6856541	14-Aug-16	19.6	WHI16000237	0.0034	3.4
AA070475	soil	2016	UTM83-9	527531	6856538	14-Aug-16	12.4	WHI16000237	0.0259	25.9
AA070476	soil	2016	UTM83-9	527475	6856524	14-Aug-16	42.6	WHI16000237	0.0057	5.7
AA070477	soil	2016	UTM83-9	527425	6856545	14-Aug-16	27.2	WHI16000237	0.0025	2.5
AA070478	soil	2016	UTM83-9	527423	6856539	14-Aug-16	28.1	WHI16000237	0.0031	3.1
AA070479	soil	2016	UTM83-9	527379	6856539	14-Aug-16	16.7	WHI16000237	0.0034	3.4
AA070480	soil	2016	UTM83-9	527323	6856534	14-Aug-16	6.3	WHI16000237	0.0036	3.6
AA070481	soil	2016	UTM83-9	527280	6856533	14-Aug-16	5.4	WHI16000237	0.0015	1.5
AA070482	soil	2016	UTM83-9	527233	6856542	14-Aug-16	27.2	WHI16000237	0.0179	17.9
AA070483	soil	2016	UTM83-9	527181	6856546	14-Aug-16	16.1	WHI16000237	0.0039	3.9
AA070484	soil	2016	UTM83-9	527132	6856536	14-Aug-16	10	WHI16000237	0.0023	2.3
AA070485	soil	2016	UTM83-9	527079	6856527	14-Aug-16	31.3	WHI16000237	0.0022	2.2
AA070486	soil	2016	UTM83-9	527025	6856536	14-Aug-16	193.2	WHI16000237	0.0236	23.6
AA070487	soil	2016	UTM83-9	526977	6856541	14-Aug-16	92.9	WHI16000237	0.0171	17.1
AA070488	soil	2016	UTM83-9	526920	6856539	14-Aug-16	77.4	WHI16000237	0.0238	23.8
AA070489	soil	2016	UTM83-9	526879	6856549	14-Aug-16	35	WHI16000237	0.0079	7.9
AA070490	soil	2016	UTM83-9	526808	6856546	14-Aug-16	59.8	WHI16000237	0.0135	13.5
AA070491	soil	2016	UTM83-9	526767	6856529	14-Aug-16	254.6	WHI16000237	0.0226	22.6
AA070492	soil	2016	UTM83-9	526724	6856542	14-Aug-16	44.1	WHI16000237	0.0015	1.5
AA070493	soil	2016	UTM83-9	526671	6856538	14-Aug-16	75.7	WHI16000237	0.0169	16.9
AA070494	soil	2016	UTM83-9	526631	6856552	14-Aug-16	6.9	WHI16000237	0.0005	0.5
AA070495	soil	2016	UTM83-9	526589	6856538	14-Aug-16	19.8	WHI16000237	0.0009	0.9
AA070496	soil	2016	UTM83-9	526527	6856548	14-Aug-16	24.3	WHI16000237	0.0005	0.5
AA070497	soil	2016	UTM83-9	526472	6856539	14-Aug-16	247	WHI16000237	0.0452	45.2
AA070498	soil	2016	UTM83-9	526423	6856534	14-Aug-16	31.8	WHI16000237	0.0019	1.9
AA070499	soil	2016	UTM83-9	526375	6856538	14-Aug-16	16.1	WHI16000237	0.004	4
AA070500	soil	2016	UTM83-9	526334	6856532	14-Aug-16	22.8	WHI16000237	0.001	1
AA070501	soil	2016	UTM83-9	527805	6852763	14-Aug-16	61.6	WHI16000181	0.0027	2.7
AA070502	soil	2016	UTM83-9	527855	6852760	14-Aug-16	26.3	WHI16000181	0.0017	1.7
AA070503	soil	2016	UTM83-9	527904	6852765	14-Aug-16	12.6	WHI16000181	0.0012	1.2
AA070504	soil	2016	UTM83-9	527952	6852756	14-Aug-16	81.8	WHI16000181	0.0153	15.3

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA070505	soil	2016	UTM83-9	528005	6852772	14-Aug-16	21.8	WHI16000181	0.0048	4.8
AA070506	soil	2016	UTM83-9	528051	6852762	14-Aug-16	14.5	WHI16000181	0.0011	1.1
AA070507	soil	2016	UTM83-9	528102	6852761	14-Aug-16	33.2	WHI16000181	0.0027	2.7
AA070508	soil	2016	UTM83-9	528150	6852758	14-Aug-16	35.3	WHI16000181	0.003	3
AA070509	soil	2016	UTM83-9	528204	6852760	14-Aug-16	63.3	WHI16000181	0.0131	13.1
AA070510	soil	2016	UTM83-9	528252	6852764	14-Aug-16	99.4	WHI16000181	0.0194	19.4
AA070511	soil	2016	UTM83-9	528306	6852764	14-Aug-16	35.8	WHI16000233	0.0034	3.4
AA070512	soil	2016	UTM83-9	528902	6853061	14-Aug-16	31.8	WHI16000233	0.0266	26.6
AA070513	soil	2016	UTM83-9	528902	6853159	14-Aug-16	131.7	WHI16000233	0.0449	44.9
AA070514	soil	2016	UTM83-9	528957	6853160	14-Aug-16	N/A	WHI16000233	N/A	N/A
AA070515	soil	2016	UTM83-9	529003	6853161	14-Aug-16	173.5	WHI16000233	0.0597	59.7
AA070516	soil	2016	UTM83-9	529050	6853162	14-Aug-16	348.6	WHI16000233	0.0459	45.9
AA070517	soil	2016	UTM83-9	529100	6853162	14-Aug-16	N/A	WHI16000233	N/A	N/A
AA070518	soil	2016	UTM83-9	529148	6853154	14-Aug-16	66	WHI16000233	0.0132	13.2
AA070519	soil	2016	UTM83-9	529201	6853155	14-Aug-16	1074.6	WHI16000233	0.1523	152.3
AA070520	soil	2016	UTM83-9	529254	6853159	14-Aug-16	18.7	WHI16000233	0.0035	3.5
AA070521	soil	2016	UTM83-9	529349	6853156	14-Aug-16	26.3	WHI16000181	0.0061	6.1
AA070522	soil	2016	UTM83-9	529400	6853159	14-Aug-16	26.8	WHI16000181	0.0105	10.5
AA070523	soil	2016	UTM83-9	529450	6853158	14-Aug-16	14.2	WHI16000181	0.0044	4.4
AA070524	soil	2016	UTM83-9	529494	6853157	14-Aug-16	18.3	WHI16000181	0.0085	8.5
AA070525	soil	2016	UTM83-9	529550	6853159	14-Aug-16	10	WHI16000181	0.0013	1.3
AA070526	soil	2016	UTM83-9	529605	6853159	14-Aug-16	13.4	WHI16000181	0.0016	1.6
AA070527	soil	2016	UTM83-9	529652	6853157	14-Aug-16	20.1	WHI16000181	0.0063	6.3
AA070528	soil	2016	UTM83-9	529698	6853155	14-Aug-16	54.6	WHI16000181	0.0057	5.7
AA070529	soil	2016	UTM83-9	529750	6853153	14-Aug-16	23.1	WHI16000181	0.0017	1.7
AA070530	soil	2016	UTM83-9	529801	6853159	14-Aug-16	19.8	WHI16000181	0.0017	1.7
AA070531	soil	2016	UTM83-9	529845	6853156	14-Aug-16	24.8	WHI16000180	0.0013	1.3
AA070532	soil	2016	UTM83-9	529905	6853160	14-Aug-16	19.5	WHI16000180	0.0013	1.3
AA070533	soil	2016	UTM83-9	530006	6853167	14-Aug-16	14.8	WHI16000180	0.0001	0.1
AA070534	soil	2016	UTM83-9	530008	6853168	14-Aug-16	15.8	WHI16000180	0.0003	0.3
AA070535	soil	2016	UTM83-9	530060	6853163	14-Aug-16	14.4	WHI16000180	0.0013	1.3
AA070536	soil	2016	UTM83-9	530152	6853158	14-Aug-16	13.5	WHI16000180	0.0013	1.3
AA070537	soil	2016	UTM83-9	530204	6853164	14-Aug-16	14.5	WHI16000180	0.0012	1.2
AA070538	soil	2016	UTM83-9	530264	6853162	14-Aug-16	12.5	WHI16000180	0.0014	1.4
AA070539	soil	2016	UTM83-9	530308	6853156	14-Aug-16	12.2	WHI16000180	0.0016	1.6
AA070540	soil	2016	UTM83-9	530100	6853161	14-Aug-16	15.9	WHI16000180	0.0028	2.8
AA070541	soil	2016	UTM83-9	530360	6853155	14-Aug-16	11.2	WHI16000180	0.0016	1.6
AA070542	soil	2016	UTM83-9	530404	6853160	14-Aug-16	6.8	WHI16000180	0.0009	0.9
AA070543	soil	2016	UTM83-9	530453	6853167	14-Aug-16	13.8	WHI16000180	0.0086	8.6
AA070544	soil	2016	UTM83-9	530507	6853164	14-Aug-16	8.2	WHI16000180	0.002	2
AA070545	soil	2016	UTM83-9	530547	6853160	14-Aug-16	5.7	WHI16000180	0.0017	1.7
AA070546	soil	2016	UTM83-9	530600	6853153	14-Aug-16	14.5	WHI16000180	0.0015	1.5
AA070547	soil	2016	UTM83-9	530644	6853151	14-Aug-16	10	WHI16000180	0.001	1
AA070548	soil	2016	UTM83-9	530655	6853062	14-Aug-16	15.5	WHI16000180	0.0018	1.8
AA070549	soil	2016	UTM83-9	530604	6853064	14-Aug-16	15.8	WHI16000180	0.0037	3.7
AA070550	soil	2016	UTM83-9	528855	6853158	14-Aug-16	N/A	WHI16000180	N/A	N/A
AA070551	soil	2016	UTM83-9	527709	6853663	02-Aug-16	37.6	WHI16000180	0.0056	5.6
AA070552	soil	2016	UTM83-9	527659	6853647	02-Aug-16	55.4	WHI16000180	0.0055	5.5
AA070553	soil	2016	UTM83-9	527612	6853647	02-Aug-16	71.5	WHI16000180	0.0118	11.8
AA070554	soil	2016	UTM83-9	527561	6853649	02-Aug-16	76.1	WHI16000180	0.0094	9.4
AA070555	soil	2016	UTM83-9	527504	6853648	02-Aug-16	37.4	WHI16000180	0.0043	4.3
AA070556	soil	2016	UTM83-9	527454	6853658	02-Aug-16	33.2	WHI16000180	0.0028	2.8
AA070557	soil	2016	UTM83-9	527409	6853649	02-Aug-16	35.8	WHI16000180	0.0064	6.4
AA070558	soil	2016	UTM83-9	527347	6853654	02-Aug-16	22.6	WHI16000180	0.0024	2.4
AA070559	soil	2016	UTM83-9	527303	6853669	02-Aug-16	27.8	WHI16000180	0.0067	6.7
AA070560	soil	2016	UTM83-9	527243	6853665	02-Aug-16	93.5	WHI16000180	0.0112	11.2
AA070561	soil	2016	UTM83-9	527209	6853660	02-Aug-16	561.4	WHI16000180	0.1832	183.2
AA070562	soil	2016	UTM83-9	527156	6853660	02-Aug-16	49	WHI16000180	0.0063	6.3
AA070563	soil	2016	UTM83-9	527107	6853660	02-Aug-16	48.4	WHI16000180	0.007	7
AA070564	soil	2016	UTM83-9	527059	6853660	02-Aug-16	67.8	WHI16000180	0.0101	10.1
AA070565	soil	2016	UTM83-9	529353	6854164	03-Aug-16	11.9	WHI16000180	0.0034	3.4

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA070566	soil	2016	UTM83-9	529353	6854164	03-Aug-16	13.2	WHI16000180	0.0031	3.1
AA070567	soil	2016	UTM83-9	529399	6854156	03-Aug-16	15.2	WHI16000180	0.0015	1.5
AA070568	soil	2016	UTM83-9	529460	6854156	03-Aug-16	6.1	WHI16000180	0.0008	0.8
AA070569	soil	2016	UTM83-9	529508	6854161	03-Aug-16	11.9	WHI16000180	0.0014	1.4
AA070570	soil	2016	UTM83-9	529555	6854167	03-Aug-16	14.5	WHI16000180	0.001	1
AA070571	soil	2016	UTM83-9	529601	6854166	03-Aug-16	9.3	WHI16000233	0.0006	0.6
AA070572	soil	2016	UTM83-9	529647	6854159	03-Aug-16	18.9	WHI16000233	0.0041	4.1
AA070573	soil	2016	UTM83-9	529702	6854163	03-Aug-16	17.1	WHI16000233	0.004	4
AA070574	soil	2016	UTM83-9	529761	6854162	03-Aug-16	14.6	WHI16000233	0.0019	1.9
AA070575	soil	2016	UTM83-9	529796	6854163	03-Aug-16	27	WHI16000233	0.0026	2.6
AA070576	soil	2016	UTM83-9	529850	6854164	03-Aug-16	10.1	WHI16000233	0.003	3
AA070577	soil	2016	UTM83-9	529894	6854166	03-Aug-16	18.6	WHI16000233	0.0019	1.9
AA070578	soil	2016	UTM83-9	529955	6854152	03-Aug-16	8.6	WHI16000233	0.0011	1.1
AA070579	soil	2016	UTM83-9	530004	6854159	03-Aug-16	11.5	WHI16000233	0.0014	1.4
AA070580	soil	2016	UTM83-9	530050	6854159	03-Aug-16	17.7	WHI16000233	0.0014	1.4
AA070581	soil	2016	UTM83-9	530105	6854169	03-Aug-16	17.8	WHI16000181	0.0008	0.8
AA070582	soil	2016	UTM83-9	530156	6854152	03-Aug-16	15.9	WHI16000181	0.0008	0.8
AA070583	soil	2016	UTM83-9	530197	6854154	03-Aug-16	15.4	WHI16000181	0.0012	1.2
AA070584	soil	2016	UTM83-9	530255	6854158	03-Aug-16	7.9	WHI16000181	0.0009	0.9
AA070585	soil	2016	UTM83-9	530308	6854147	03-Aug-16	11.9	WHI16000181	0.0011	1.1
AA070586	soil	2016	UTM83-9	530361	6854160	03-Aug-16	17.4	WHI16000181	0.0016	1.6
AA070587	soil	2016	UTM83-9	530407	6854158	03-Aug-16	11.8	WHI16000181	0.0005	0.5
AA070588	soil	2016	UTM83-9	530460	6854156	03-Aug-16	19.3	WHI16000181	0.0005	0.5
AA070589	soil	2016	UTM83-9	530495	6854160	03-Aug-16	10.4	WHI16000181	0.0007	0.7
AA070590	soil	2016	UTM83-9	530545	6854159	03-Aug-16	22.5	WHI16000181	0.0004	0.4
AA070591	soil	2016	UTM83-9	530600	6854157	03-Aug-16	19.7	WHI16000233	0.0094	9.4
AA070592	soil	2016	UTM83-9	530632	6854155	03-Aug-16	20.7	WHI16000233	0.0013	1.3
AA070593	soil	2016	UTM83-9	529308	6854162	04-Aug-16	12.5	WHI16000233	0.003	3
AA070594	soil	2016	UTM83-9	529200	6854165	04-Aug-16	14.3	WHI16000233	0.0044	4.4
AA070595	soil	2016	UTM83-9	529349	6854159	04-Aug-16	10.4	WHI16000233	0.0019	1.9
AA070596	soil	2016	UTM83-9	529148	6854165	04-Aug-16	58.1	WHI16000233	0.0126	12.6
AA070597	soil	2016	UTM83-9	529102	6854165	04-Aug-16	21.6	WHI16000233	0.0027	2.7
AA070598	soil	2016	UTM83-9	529003	6854157	04-Aug-16	24.7	WHI16000233	0.0045	4.5
AA070599	soil	2016	UTM83-9	528946	6854160	04-Aug-16	56.3	WHI16000233	0.005	5
AA070600	soil	2016	UTM83-9	528903	6854157	04-Aug-16	45.5	WHI16000233	0.052	52
AA070601	soil	2016	UTM83-9	529601	6854255	03-Aug-16	14.3	WHI16000180	0.0011	1.1
AA070602	soil	2016	UTM83-9	529651	6854254	03-Aug-16	14.7	WHI16000180	0.0019	1.9
AA070603	soil	2016	UTM83-9	529703	6854259	03-Aug-16	15.3	WHI16000180	0.0021	2.1
AA070604	soil	2016	UTM83-9	529753	6854255	03-Aug-16	13.6	WHI16000180	0.0021	2.1
AA070605	soil	2016	UTM83-9	529801	6854265	03-Aug-16	13.5	WHI16000180	0.001	1
AA070606	soil	2016	UTM83-9	529852	6854256	03-Aug-16	8.6	WHI16000180	0.0003	0.3
AA070607	soil	2016	UTM83-9	529898	6854265	03-Aug-16	21	WHI16000180	0.0012	1.2
AA070608	soil	2016	UTM83-9	529956	6854264	03-Aug-16	16.2	WHI16000180	0.004	4
AA070609	soil	2016	UTM83-9	530005	6854263	03-Aug-16	4.9	WHI16000180	0.0008	0.8
AA070610	soil	2016	UTM83-9	530054	6854261	03-Aug-16	4.7	WHI16000180	0.0005	0.5
AA070611	soil	2016	UTM83-9	530104	6854262	03-Aug-16	4.6	WHI16000180	0.0017	1.7
AA070612	soil	2016	UTM83-9	530156	6854262	03-Aug-16	5.5	WHI16000180	0.0008	0.8
AA070613	soil	2016	UTM83-9	530156	6854262	03-Aug-16	6.6	WHI16000180	0.0017	1.7
AA070614	soil	2016	UTM83-9	530204	6854265	03-Aug-16	11.4	WHI16000180	0.0029	2.9
AA070615	soil	2016	UTM83-9	530250	6854267	03-Aug-16	7.3	WHI16000180	0.0018	1.8
AA070616	soil	2016	UTM83-9	530304	6854260	03-Aug-16	5.2	WHI16000180	0.001	1
AA070617	soil	2016	UTM83-9	530354	6854261	03-Aug-16	4.1	WHI16000180	0.0001	0.1
AA070618	soil	2016	UTM83-9	530402	6854262	03-Aug-16	10.8	WHI16000180	0.0005	0.5
AA070619	soil	2016	UTM83-9	530456	6854270	03-Aug-16	12.5	WHI16000180	0.0021	2.1
AA070620	soil	2016	UTM83-9	530494	6854261	03-Aug-16	5.2	WHI16000180	0.0009	0.9
AA070621	soil	2016	UTM83-9	530545	6854258	03-Aug-16	6.7	WHI16000180	0.0004	0.4
AA070622	soil	2016	UTM83-9	530606	6854263	03-Aug-16	7.2	WHI16000180	0.0009	0.9
AA070623	soil	2016	UTM83-9	530652	6854263	03-Aug-16	6.1	WHI16000180	0.0003	0.3
AA070624	soil	2016	UTM83-9	530660	6853960	03-Aug-16	9.3	WHI16000180	0.0021	2.1
AA070625	soil	2016	UTM83-9	530603	6853968	03-Aug-16	7.8	WHI16000180	0.0016	1.6
AA070626	soil	2016	UTM83-9	530553	6853953	03-Aug-16	12.1	WHI16000180	0.0022	2.2

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA070627	soil	2016	UTM83-9	530501	6853951	03-Aug-16	30.3	WHI16000180	0.0041	4.1
AA070628	soil	2016	UTM83-9	530453	6853954	03-Aug-16	17.1	WHI16000180	0.0013	1.3
AA070629	soil	2016	UTM83-9	530404	6853960	03-Aug-16	29	WHI16000180	0.0042	4.2
AA070630	soil	2016	UTM83-9	530355	6853959	03-Aug-16	17	WHI16000180	0.0011	1.1
AA070631	soil	2016	UTM83-9	530303	6853958	03-Aug-16	21.5	WHI16000181	0.0014	1.4
AA070632	soil	2016	UTM83-9	529307	6854246	04-Aug-16	14.6	WHI16000181	0.0037	3.7
AA070633	soil	2016	UTM83-9	529256	6854260	04-Aug-16	17.2	WHI16000181	0.0032	3.2
AA070634	soil	2016	UTM83-9	529209	6854256	04-Aug-16	15.4	WHI16000181	0.002	2
AA070635	soil	2016	UTM83-9	529149	6854263	04-Aug-16	10.8	WHI16000181	0.0024	2.4
AA070636	soil	2016	UTM83-9	529104	6854259	04-Aug-16	6.4	WHI16000181	0.0015	1.5
AA070637	soil	2016	UTM83-9	529054	6854259	04-Aug-16	11.9	WHI16000181	0.001	1
AA070638	soil	2016	UTM83-9	529004	6854263	04-Aug-16	4	WHI16000181	0.0005	0.5
AA070639	soil	2016	UTM83-9	528959	6854257	04-Aug-16	11.6	WHI16000181	0.0029	2.9
AA070640	soil	2016	UTM83-9	528903	6854260	04-Aug-16	17.3	WHI16000181	0.0017	1.7
AA070641	soil	2016	UTM83-9	528861	6854265	04-Aug-16	0.2	WHI16000181	0.0012	1.2
AA070642	soil	2016	UTM83-9	528799	6854257	04-Aug-16	64.7	WHI16000181	0.0145	14.5
AA070643	soil	2016	UTM83-9	528753	6854259	04-Aug-16	3.3	WHI16000181	0.0001	0.1
AA070644	soil	2016	UTM83-9	528696	6854254	04-Aug-16	82.1	WHI16000181	0.0174	17.4
AA070645	soil	2016	UTM83-9	528653	6854255	04-Aug-16	30.6	WHI16000181	0.0061	6.1
AA070646	soil	2016	UTM83-9	528602	6854251	04-Aug-16	6	WHI16000181	0.0015	1.5
AA070647	soil	2016	UTM83-9	528555	6854255	04-Aug-16	2.4	WHI16000181	0.0002	0.2
AA070648	soil	2016	UTM83-9	528503	6854258	04-Aug-16	0.2	WHI16000181	0.0001	0.1
AA070649	soil	2016	UTM83-9	528454	6854260	04-Aug-16	46	WHI16000181	0.0071	7.1
AA070650	soil	2016	UTM83-9	528406	6854262	04-Aug-16	32.8	WHI16000181	0.0077	7.7
AA070651	soil	2016	UTM83-9	530399	6853848	03-Aug-16	62.4	WHI16000234	0.0245	24.5
AA070652	soil	2016	UTM83-9	530451	6853860	03-Aug-16	43.2	WHI16000234	0.0071	7.1
AA070653	soil	2016	UTM83-9	530498	6853859	03-Aug-16	9.8	WHI16000234	0.001	1
AA070654	soil	2016	UTM83-9	530497	6853856	03-Aug-16	10.8	WHI16000234	0.0015	1.5
AA070655	soil	2016	UTM83-9	530547	6853860	03-Aug-16	8.9	WHI16000234	0.0018	1.8
AA070656	soil	2016	UTM83-9	530607	6853853	03-Aug-16	9.7	WHI16000234	0.0017	1.7
AA070657	soil	2016	UTM83-9	530650	6853863	03-Aug-16	12.4	WHI16000234	0.0025	2.5
AA070658	soil	2016	UTM83-9	529307	6853858	04-Aug-16	18.2	WHI16000234	0.004	4
AA070659	soil	2016	UTM83-9	529260	6853862	04-Aug-16	16.2	WHI16000234	0.0033	3.3
AA070660	soil	2016	UTM83-9	529213	6853864	04-Aug-16	19.2	WHI16000234	0.0039	3.9
AA070661	soil	2016	UTM83-9	529154	6853850	04-Aug-16	12.8	WHI16000234	0.0017	1.7
AA070662	soil	2016	UTM83-9	529101	6853861	04-Aug-16	112.2	WHI16000234	0.007	7
AA070663	soil	2016	UTM83-9	529051	6853861	04-Aug-16	75.3	WHI16000234	0.0057	5.7
AA070664	soil	2016	UTM83-9	529004	6853867	04-Aug-16	160.2	WHI16000234	0.0062	6.2
AA070665	soil	2016	UTM83-9	528961	6853861	04-Aug-16	37.7	WHI16000234	0.0011	1.1
AA070666	soil	2016	UTM83-9	528912	6853858	04-Aug-16	68.5	WHI16000234	0.001	1
AA070667	soil	2016	UTM83-9	528860	6853855	04-Aug-16	33.9	WHI16000234	0.0008	0.8
AA070668	soil	2016	UTM83-9	528803	6853860	04-Aug-16	131	WHI16000234	0.0113	11.3
AA070669	soil	2016	UTM83-9	528759	6853861	04-Aug-16	57.8	WHI16000234	0.0086	8.6
AA070670	soil	2016	UTM83-9	528699	6853860	04-Aug-16	54.4	WHI16000234	0.0033	3.3
AA070671	soil	2016	UTM83-9	528654	6853858	04-Aug-16	5	WHI16000234	0.0004	0.4
AA070672	soil	2016	UTM83-9	528603	6853862	04-Aug-16	12.5	WHI16000234	0.0018	1.8
AA070673	soil	2016	UTM83-9	528554	6853858	04-Aug-16	43	WHI16000234	0.0126	12.6
AA070674	soil	2016	UTM83-9	528503	6853861	04-Aug-16	204.3	WHI16000234	0.0377	37.7
AA070675	soil	2016	UTM83-9	528457	6853856	04-Aug-16	59.2	WHI16000234	0.0167	16.7
AA070676	soil	2016	UTM83-9	528407	6853856	04-Aug-16	42.2	WHI16000234	0.0077	7.7
AA070677	soil	2016	UTM83-9	528367	6853855	04-Aug-16	42.7	WHI16000234	0.0062	6.2
AA070678	soil	2016	UTM83-9	528317	6853860	04-Aug-16	38.2	WHI16000234	0.0087	8.7
AA070679	soil	2016	UTM83-9	528258	6853864	04-Aug-16	56	WHI16000234	0.0102	10.2
AA070680	soil	2016	UTM83-9	528205	6853854	04-Aug-16	49.8	WHI16000234	0.0111	11.1
AA070681	soil	2016	UTM83-9	528156	6853858	04-Aug-16	76.3	WHI16000234	0.0112	11.2
AA070682	soil	2016	UTM83-9	528104	6853854	04-Aug-16	19.2	WHI16000234	0.0032	3.2
AA070683	soil	2016	UTM83-9	527155	6853862	05-Aug-16	40.7	WHI16000234	0.0053	5.3
AA070684	soil	2016	UTM83-9	527099	6853860	05-Aug-16	29.7	WHI16000234	0.0049	4.9
AA070685	soil	2016	UTM83-9	527056	6853861	05-Aug-16	32.7	WHI16000234	0.0063	6.3
AA070686	soil	2016	UTM83-9	527203	6853858	05-Aug-16	50.3	WHI16000234	0.0059	5.9
AA070687	soil	2016	UTM83-9	527253	6853863	05-Aug-16	9.4	WHI16000234	0.0014	1.4

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA070688	soil	2016	UTM83-9	527301	6853859	05-Aug-16	83.9	WHI16000234	0.0097	9.7
AA070689	soil	2016	UTM83-9	527354	6853863	05-Aug-16	106.6	WHI16000234	0.0223	22.3
AA070690	soil	2016	UTM83-9	527404	6853859	05-Aug-16	134.6	WHI16000234	0.0049	4.9
AA070691	soil	2016	UTM83-9	527458	6853861	05-Aug-16	25.4	WHI16000234	0.0017	1.7
AA070692	soil	2016	UTM83-9	527504	6853853	05-Aug-16	21.6	WHI16000234	0.0009	0.9
AA070693	soil	2016	UTM83-9	527550	6853854	05-Aug-16	13.6	WHI16000234	0.0001	0.1
AA070694	soil	2016	UTM83-9	527599	6853862	05-Aug-16	17	WHI16000234	0.0022	2.2
AA070695	soil	2016	UTM83-9	527693	6853862	05-Aug-16	35.2	WHI16000234	0.0042	4.2
AA070696	soil	2016	UTM83-9	527691	6853865	05-Aug-16	37.4	WHI16000234	0.0032	3.2
AA070697	soil	2016	UTM83-9	527651	6853857	05-Aug-16	8.4	WHI16000234	0.0033	3.3
AA070698	soil	2016	UTM83-9	527752	6853853	05-Aug-16	25.4	WHI16000234	0.0014	1.4
AA070699	soil	2016	UTM83-9	527800	6853856	05-Aug-16	29.1	WHI16000234	0.0059	5.9
AA070700	soil	2016	UTM83-9	527857	6853859	05-Aug-16	28.3	WHI16000234	0.0039	3.9
AA070701	soil	2016	UTM83-9	529302	6853970	03-Aug-16	33.2	WHI16000180	0.0042	4.2
AA070702	soil	2016	UTM83-9	529393	6853953	03-Aug-16	15.4	WHI16000180	0.0011	1.1
AA070703	soil	2016	UTM83-9	529452	6853960	03-Aug-16	15.9	WHI16000180	0.0017	1.7
AA070704	soil	2016	UTM83-9	529505	6853960	03-Aug-16	15.4	WHI16000180	0.0023	2.3
AA070705	soil	2016	UTM83-9	529551	6853968	03-Aug-16	10.1	WHI16000180	0.0009	0.9
AA070706	soil	2016	UTM83-9	529603	6853952	03-Aug-16	11.8	WHI16000180	0.0001	0.1
AA070707	soil	2016	UTM83-9	529644	6853953	03-Aug-16	21.3	WHI16000180	0.0013	1.3
AA070708	soil	2016	UTM83-9	529692	6853964	03-Aug-16	67.4	WHI16000180	0.0006	0.6
AA070709	soil	2016	UTM83-9	529752	6853957	03-Aug-16	16.7	WHI16000180	0.0001	0.1
AA070710	soil	2016	UTM83-9	529804	6853960	03-Aug-16	22.9	WHI16000180	0.0005	0.5
AA070711	soil	2016	UTM83-9	529855	6853960	03-Aug-16	57.2	WHI16000181	0.0016	1.6
AA070712	soil	2016	UTM83-9	529905	6853961	03-Aug-16	11.6	WHI16000181	0.001	1
AA070713	soil	2016	UTM83-9	529952	6853957	03-Aug-16	55.6	WHI16000181	0.0035	3.5
AA070714	soil	2016	UTM83-9	530006	6853961	03-Aug-16	38.5	WHI16000181	0.003	3
AA070715	soil	2016	UTM83-9	530054	6853958	03-Aug-16	42.9	WHI16000181	0.0055	5.5
AA070716	soil	2016	UTM83-9	530105	6853960	03-Aug-16	27.2	WHI16000181	0.0033	3.3
AA070717	soil	2016	UTM83-9	530154	6853959	03-Aug-16	16.1	WHI16000181	0.0022	2.2
AA070718	soil	2016	UTM83-9	530200	6853964	03-Aug-16	58.8	WHI16000181	0.0073	7.3
AA070719	soil	2016	UTM83-9	530254	6853958	03-Aug-16	13.3	WHI16000181	0.0007	0.7
AA070720	soil	2016	UTM83-9	529257	6853958	04-Aug-16	15.5	WHI16000181	0.0036	3.6
AA070721	soil	2016	UTM83-9	529202	6853960	04-Aug-16	13.4	WHI16000181	0.0018	1.8
AA070722	soil	2016	UTM83-9	529155	6853962	04-Aug-16	8.2	WHI16000181	0.0018	1.8
AA070723	soil	2016	UTM83-9	529105	6853959	04-Aug-16	15.8	WHI16000181	0.0033	3.3
AA070724	soil	2016	UTM83-9	529042	6853966	04-Aug-16	87.2	WHI16000181	0.0061	6.1
AA070725	soil	2016	UTM83-9	529005	6853965	04-Aug-16	61.6	WHI16000181	0.0124	12.4
AA070726	soil	2016	UTM83-9	528957	6853964	04-Aug-16	N/A	WHI16000181	N/A	N/A
AA070727	soil	2016	UTM83-9	528910	6853961	04-Aug-16	84.3	WHI16000181	0.0031	3.1
AA070728	soil	2016	UTM83-9	528856	6853958	04-Aug-16	21.9	WHI16000181	0.001	1
AA070729	soil	2016	UTM83-9	528755	6853959	04-Aug-16	35.5	WHI16000181	0.0028	2.8
AA070730	soil	2016	UTM83-9	528702	6853956	04-Aug-16	6	WHI16000181	0.0009	0.9
AA070731	soil	2016	UTM83-9	528656	6853954	04-Aug-16	0.6	WHI16000181	0.0003	0.3
AA070732	soil	2016	UTM83-9	528604	6853956	04-Aug-16	32.7	WHI16000181	0.0017	1.7
AA070733	soil	2016	UTM83-9	528552	6853962	04-Aug-16	49.7	WHI16000181	0.011	11
AA070734	soil	2016	UTM83-9	528509	6853956	04-Aug-16	59.2	WHI16000181	0.0144	14.4
AA070735	soil	2016	UTM83-9	528456	6853958	04-Aug-16	70.1	WHI16000181	0.0011	1.1
AA070736	soil	2016	UTM83-9	528405	6853959	04-Aug-16	67.5	WHI16000181	0.0034	3.4
AA070737	soil	2016	UTM83-9	528355	6853956	04-Aug-16	47.1	WHI16000181	0.0039	3.9
AA070738	soil	2016	UTM83-9	528305	6853960	04-Aug-16	37.1	WHI16000181	0.0039	3.9
AA070739	soil	2016	UTM83-9	528304	6853963	04-Aug-16	34.5	WHI16000181	0.0058	5.8
AA070740	soil	2016	UTM83-9	528255	6853967	04-Aug-16	81.3	WHI16000181	0.0123	12.3
AA070741	soil	2016	UTM83-9	528202	6853963	04-Aug-16	71.3	WHI16000233	0.0126	12.6
AA070742	soil	2016	UTM83-9	528156	6853969	04-Aug-16	62.7	WHI16000233	0.0101	10.1
AA070743	soil	2016	UTM83-9	528105	6853962	04-Aug-16	22.6	WHI16000233	0.0005	0.5
AA070744	soil	2016	UTM83-9	528052	6853959	04-Aug-16	28.2	WHI16000233	0.0004	0.4
AA070745	soil	2016	UTM83-9	528009	6853958	04-Aug-16	37.1	WHI16000233	0.0067	6.7
AA070746	soil	2016	UTM83-9	527050	6853961	05-Aug-16	61.4	WHI16000233	0.007	7
AA070747	soil	2016	UTM83-9	527101	6853959	05-Aug-16	48.6	WHI16000233	0.0047	4.7
AA070748	soil	2016	UTM83-9	527160	6853951	05-Aug-16	46.5	WHI16000233	0.0048	4.8

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA070749	soil	2016	UTM83-9	527200	6853965	05-Aug-16	74.3	WHI16000233	0.009	9
AA070750	soil	2016	UTM83-9	527250	6853966	05-Aug-16	17.1	WHI16000233	0.0021	2.1
AA070751	soil	2016	UTM83-9	527300	6853955	05-Aug-16	35.3	WHI16000233	0.0023	2.3
AA070752	soil	2016	UTM83-9	527345	6853952	05-Aug-16	23.1	WHI16000233	0.0051	5.1
AA070753	soil	2016	UTM83-9	527402	6853950	05-Aug-16	16.7	WHI16000233	0.0016	1.6
AA070754	soil	2016	UTM83-9	527442	6853965	05-Aug-16	6.8	WHI16000233	0.0026	2.6
AA070755	soil	2016	UTM83-9	527492	6853968	05-Aug-16	32.9	WHI16000233	0.0055	5.5
AA070756	soil	2016	UTM83-9	527541	6853961	05-Aug-16	139.3	WHI16000233	0.0242	24.2
AA070757	soil	2016	UTM83-9	527600	6853960	05-Aug-16	18.8	WHI16000233	0.002	2
AA070758	soil	2016	UTM83-9	527646	6853965	05-Aug-16	13.5	WHI16000233	0.0016	1.6
AA070759	soil	2016	UTM83-9	527700	6853962	05-Aug-16	61.9	WHI16000233	0.0116	11.6
AA070760	soil	2016	UTM83-9	527743	6853953	05-Aug-16	482.4	WHI16000233	0.095	95
AA070761	soil	2016	UTM83-9	527798	6853953	05-Aug-16	82.8	WHI16000233	0.0088	8.8
AA070762	soil	2016	UTM83-9	527855	6853955	05-Aug-16	18.7	WHI16000233	0.0027	2.7
AA070763	soil	2016	UTM83-9	527914	6853968	05-Aug-16	37.3	WHI16000233	0.0099	9.9
AA070764	soil	2016	UTM83-9	527952	6853955	05-Aug-16	19.5	WHI16000233	0.003	3
AA070765	soil	2016	UTM83-9	529351	6854465	06-Aug-16	13.7	WHI16000233	0.0019	1.9
AA070766	soil	2016	UTM83-9	529403	6854458	06-Aug-16	5.9	WHI16000233	0.0004	0.4
AA070767	soil	2016	UTM83-9	529452	6854461	06-Aug-16	5.4	WHI16000233	0.0001	0.1
AA070768	soil	2016	UTM83-9	529511	6854455	06-Aug-16	17.1	WHI16000233	0.0024	2.4
AA070769	soil	2016	UTM83-9	529554	6854466	06-Aug-16	5.5	WHI16000233	0.0017	1.7
AA070770	soil	2016	UTM83-9	529596	6854459	06-Aug-16	7.5	WHI16000233	0.0355	35.5
AA070771	soil	2016	UTM83-9	529653	6854454	06-Aug-16	6.1	WHI16000233	0.0012	1.2
AA070772	soil	2016	UTM83-9	529696	6854464	06-Aug-16	6.4	WHI16000233	0.0016	1.6
AA070773	soil	2016	UTM83-9	529746	6854461	06-Aug-16	7.8	WHI16000233	0.002	2
AA070774	soil	2016	UTM83-9	529804	6854447	06-Aug-16	6.8	WHI16000233	0.0018	1.8
AA070775	soil	2016	UTM83-9	529863	6854454	06-Aug-16	5.9	WHI16000233	0.0009	0.9
AA070776	soil	2016	UTM83-9	529904	6854447	06-Aug-16	9	WHI16000233	0.0024	2.4
AA070777	soil	2016	UTM83-9	529902	6854450	06-Aug-16	9.2	WHI16000233	0.0025	2.5
AA070778	soil	2016	UTM83-9	529954	6854455	06-Aug-16	14.1	WHI16000233	0.0032	3.2
AA070779	soil	2016	UTM83-9	530002	6854456	06-Aug-16	7.1	WHI16000233	0.0016	1.6
AA070780	soil	2016	UTM83-9	530060	6854459	06-Aug-16	5.9	WHI16000233	0.0012	1.2
AA070781	soil	2016	UTM83-9	530105	6854455	06-Aug-16	5.1	WHI16000233	0.0012	1.2
AA070782	soil	2016	UTM83-9	530147	6854451	06-Aug-16	4.5	WHI16000233	0.0006	0.6
AA070783	soil	2016	UTM83-9	530203	6854439	06-Aug-16	5.6	WHI16000233	0.0014	1.4
AA070784	soil	2016	UTM83-9	530250	6854447	06-Aug-16	6.6	WHI16000233	0.0017	1.7
AA070785	soil	2016	UTM83-9	530288	6854463	06-Aug-16	10.7	WHI16000233	0.0039	3.9
AA070786	soil	2016	UTM83-9	530346	6854469	06-Aug-16	6.8	WHI16000233	0.0006	0.6
AA070787	soil	2016	UTM83-9	530394	6854460	06-Aug-16	8	WHI16000233	0.0176	17.6
AA070788	soil	2016	UTM83-9	530448	6854464	06-Aug-16	1.3	WHI16000233	0.0001	0.1
AA070789	soil	2016	UTM83-9	530501	6854460	06-Aug-16	4.3	WHI16000233	0.0006	0.6
AA070790	soil	2016	UTM83-9	530553	6854460	06-Aug-16	3.1	WHI16000233	0.0001	0.1
AA070791	soil	2016	UTM83-9	530602	6854460	06-Aug-16	4.8	WHI16000233	0.0024	2.4
AA070792	soil	2016	UTM83-9	530646	6854450	06-Aug-16	6.1	WHI16000233	0.0016	1.6
AA070793	soil	2016	UTM83-9	529312	6854455	07-Aug-16	29.2	WHI16000233	0.0026	2.6
AA070794	soil	2016	UTM83-9	529264	6854471	07-Aug-16	10.8	WHI16000233	0.0025	2.5
AA070795	soil	2016	UTM83-9	529215	6854465	07-Aug-16	18.6	WHI16000233	0.0048	4.8
AA070796	soil	2016	UTM83-9	529155	6854477	07-Aug-16	15	WHI16000233	0.0028	2.8
AA070797	soil	2016	UTM83-9	529115	6854464	07-Aug-16	15.4	WHI16000233	0.0026	2.6
AA070798	soil	2016	UTM83-9	529042	6854469	07-Aug-16	14.2	WHI16000233	0.0034	3.4
AA070799	soil	2016	UTM83-9	529010	6854457	07-Aug-16	13.2	WHI16000233	0.0034	3.4
AA070800	soil	2016	UTM83-9	528951	6854466	07-Aug-16	11.2	WHI16000233	0.0027	2.7
AA070801	soil	2016	UTM83-9	527906	6853858	05-Aug-16	76.9	WHI16000234	0.0321	32.1
AA070802	soil	2016	UTM83-9	527952	6853858	05-Aug-16	22.4	WHI16000234	0.0005	0.5
AA070803	soil	2016	UTM83-9	528006	6853857	05-Aug-16	45.2	WHI16000234	0.0094	9.4
AA070804	soil	2016	UTM83-9	528048	6853862	05-Aug-16	39.7	WHI16000234	0.0072	7.2
AA070805	soil	2016	UTM83-9	529404	6854358	06-Aug-16	15.1	WHI16000234	0.0004	0.4
AA070806	soil	2016	UTM83-9	529449	6854357	06-Aug-16	7.8	WHI16000234	0.0006	0.6
AA070807	soil	2016	UTM83-9	529501	6854361	06-Aug-16	13	WHI16000234	0.0008	0.8
AA070808	soil	2016	UTM83-9	529551	6854358	06-Aug-16	189.9	WHI16000234	0.0235	23.5
AA070809	soil	2016	UTM83-9	529602	6854360	06-Aug-16	105	WHI16000234	0.0072	7.2

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA070810	soil	2016	UTM83-9	529653	6854357	06-Aug-16	34.3	WHI16000234	0.0024	2.4
AA070811	soil	2016	UTM83-9	529697	6854355	06-Aug-16	27.1	WHI16000234	0.0037	3.7
AA070812	soil	2016	UTM83-9	529754	6854360	06-Aug-16	12.7	WHI16000234	0.0005	0.5
AA070813	soil	2016	UTM83-9	529804	6854362	06-Aug-16	34.2	WHI16000234	0.0003	0.3
AA070814	soil	2016	UTM83-9	529856	6854356	06-Aug-16	6.1	WHI16000234	0.0006	0.6
AA070815	soil	2016	UTM83-9	529902	6854356	06-Aug-16	11.4	WHI16000234	0.0018	1.8
AA070816	soil	2016	UTM83-9	529952	6854355	06-Aug-16	7.2	WHI16000234	0.0001	0.1
AA070817	soil	2016	UTM83-9	530003	6854354	06-Aug-16	6.6	WHI16000234	0.0029	2.9
AA070818	soil	2016	UTM83-9	530051	6854358	06-Aug-16	7.8	WHI16000234	0.0001	0.1
AA070819	soil	2016	UTM83-9	530101	6854363	06-Aug-16	5.9	WHI16000234	0.0001	0.1
AA070820	soil	2016	UTM83-9	530153	6854359	06-Aug-16	6.9	WHI16000234	0.0012	1.2
AA070821	soil	2016	UTM83-9	530203	6854359	06-Aug-16	7.4	WHI16000234	0.0025	2.5
AA070822	soil	2016	UTM83-9	530252	6854362	06-Aug-16	7.2	WHI16000234	0.0031	3.1
AA070823	soil	2016	UTM83-9	530301	6854355	06-Aug-16	5.7	WHI16000234	0.0021	2.1
AA070824	soil	2016	UTM83-9	530349	6854366	06-Aug-16	5.8	WHI16000234	0.0026	2.6
AA070825	soil	2016	UTM83-9	530392	6854361	06-Aug-16	4.2	WHI16000234	0.0012	1.2
AA070826	soil	2016	UTM83-9	530456	6854364	06-Aug-16	7.7	WHI16000234	0.0032	3.2
AA070827	soil	2016	UTM83-9	530508	6854364	06-Aug-16	12.7	WHI16000234	0.0042	4.2
AA070828	soil	2016	UTM83-9	530550	6854359	06-Aug-16	8.8	WHI16000234	0.001	1
AA070829	soil	2016	UTM83-9	530600	6854359	06-Aug-16	7.6	WHI16000234	0.0018	1.8
AA070830	soil	2016	UTM83-9	530652	6854350	06-Aug-16	7.3	WHI16000234	0.005	5
AA070831	soil	2016	UTM83-9	530648	6854066	06-Aug-16	22.1	WHI16000234	0.0046	4.6
AA070832	soil	2016	UTM83-9	529360	6854361	07-Aug-16	18.3	WHI16000234	0.0021	2.1
AA070833	soil	2016	UTM83-9	529316	6854360	07-Aug-16	16.5	WHI16000234	0.0014	1.4
AA070834	soil	2016	UTM83-9	529260	6854365	07-Aug-16	23	WHI16000234	0.0022	2.2
AA070835	soil	2016	UTM83-9	529260	6854362	07-Aug-16	22.9	WHI16000234	0.0023	2.3
AA070836	soil	2016	UTM83-9	529203	6854368	07-Aug-16	22	WHI16000234	0.0028	2.8
AA070837	soil	2016	UTM83-9	529161	6854359	07-Aug-16	20.3	WHI16000234	0.0017	1.7
AA070838	soil	2016	UTM83-9	529100	6854356	07-Aug-16	19.4	WHI16000234	0.002	2
AA070839	soil	2016	UTM83-9	529058	6854362	07-Aug-16	17.7	WHI16000234	0.0065	6.5
AA070840	soil	2016	UTM83-9	529004	6854364	07-Aug-16	22.7	WHI16000234	0.0029	2.9
AA070841	soil	2016	UTM83-9	528952	6854364	07-Aug-16	18.9	WHI16000235	0.0036	3.6
AA070842	soil	2016	UTM83-9	528903	6854362	07-Aug-16	20.7	WHI16000235	0.0035	3.5
AA070843	soil	2016	UTM83-9	528854	6854360	07-Aug-16	18.1	WHI16000235	0.0051	5.1
AA070844	soil	2016	UTM83-9	528803	6854355	07-Aug-16	18.3	WHI16000235	0.0042	4.2
AA070845	soil	2016	UTM83-9	528655	6854353	07-Aug-16	67.5	WHI16000235	0.0174	17.4
AA070846	soil	2016	UTM83-9	528606	6854357	07-Aug-16	4.2	WHI16000235	0.0002	0.2
AA070847	soil	2016	UTM83-9	528549	6854351	07-Aug-16	23	WHI16000235	0.0048	4.8
AA070848	soil	2016	UTM83-9	528503	6854357	07-Aug-16	56.2	WHI16000235	0.0103	10.3
AA070849	soil	2016	UTM83-9	528452	6854361	07-Aug-16	17.8	WHI16000235	0.0006	0.6
AA070850	soil	2016	UTM83-9	528406	6854355	07-Aug-16	1.6	WHI16000235	0.0001	0.1
AA070851	soil	2016	UTM83-9	527310	6854054	07-Aug-16	71.6	WHI16000233	0.0117	11.7
AA070852	soil	2016	UTM83-9	527351	6854059	07-Aug-16	82.9	WHI16000233	0.0082	8.2
AA070853	soil	2016	UTM83-9	527408	6854049	07-Aug-16	N/A	WHI16000233	N/A	N/A
AA070854	soil	2016	UTM83-9	527455	6854059	07-Aug-16	8.3	WHI16000233	0.0001	0.1
AA070855	soil	2016	UTM83-9	527502	6854059	07-Aug-16	16.7	WHI16000233	0.0014	1.4
AA070856	soil	2016	UTM83-9	527549	6854061	07-Aug-16	14.2	WHI16000233	0.0047	4.7
AA070857	soil	2016	UTM83-9	527600	6854060	07-Aug-16	63.3	WHI16000233	0.0144	14.4
AA070858	soil	2016	UTM83-9	527653	6854063	07-Aug-16	153.7	WHI16000233	0.0139	13.9
AA070859	soil	2016	UTM83-9	527699	6854056	07-Aug-16	42.3	WHI16000233	0.0034	3.4
AA070860	soil	2016	UTM83-9	527758	6854057	07-Aug-16	29.3	WHI16000233	0.0083	8.3
AA070861	soil	2016	UTM83-9	527802	6854061	07-Aug-16	114.4	WHI16000233	0.0281	28.1
AA070862	soil	2016	UTM83-9	527852	6854062	07-Aug-16	142.3	WHI16000233	0.0283	28.3
AA070863	soil	2016	UTM83-9	527904	6854062	07-Aug-16	142.8	WHI16000233	0.0291	29.1
AA070864	soil	2016	UTM83-9	527955	6854061	07-Aug-16	32.6	WHI16000233	0.007	7
AA070865	soil	2016	UTM83-9	528006	6854064	07-Aug-16	20.4	WHI16000233	0.0042	4.2
AA070866	soil	2016	UTM83-9	528052	6854065	07-Aug-16	53.9	WHI16000233	0.0068	6.8
AA070867	soil	2016	UTM83-9	528101	6854059	07-Aug-16	24.4	WHI16000233	0.0047	4.7
AA070868	soil	2016	UTM83-9	528156	6854059	07-Aug-16	25	WHI16000233	0.0015	1.5
AA070869	soil	2016	UTM83-9	528204	6854062	07-Aug-16	40.7	WHI16000233	0.0108	10.8
AA070870	soil	2016	UTM83-9	528255	6854060	07-Aug-16	11.1	WHI16000233	0.001	1

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA070871	soil	2016	UTM83-9	528305	6854061	07-Aug-16	74	WHI16000233	0.0117	11.7
AA070872	soil	2016	UTM83-9	529616	6854671	07-Aug-16	7	WHI16000233	0.0018	1.8
AA070873	soil	2016	UTM83-9	529656	6854647	07-Aug-16	12.9	WHI16000233	0.0036	3.6
AA070874	soil	2016	UTM83-9	529709	6854660	07-Aug-16	10.8	WHI16000233	0.0028	2.8
AA070875	soil	2016	UTM83-9	529754	6854662	07-Aug-16	7.4	WHI16000233	0.0009	0.9
AA070876	soil	2016	UTM83-9	529800	6854665	07-Aug-16	21.6	WHI16000233	0.0038	3.8
AA070877	soil	2016	UTM83-9	529851	6854661	07-Aug-16	110.8	WHI16000233	0.01	10
AA070878	soil	2016	UTM83-9	529899	6854660	07-Aug-16	29.5	WHI16000233	0.0078	7.8
AA070879	soil	2016	UTM83-9	529898	6854663	07-Aug-16	27.6	WHI16000233	0.0064	6.4
AA070880	soil	2016	UTM83-9	529953	6854663	07-Aug-16	6	WHI16000233	0.0019	1.9
AA070881	soil	2016	UTM83-9	530004	6854660	07-Aug-16	6.6	WHI16000233	0.0013	1.3
AA070882	soil	2016	UTM83-9	530057	6854660	07-Aug-16	6	WHI16000233	0.0008	0.8
AA070883	soil	2016	UTM83-9	530107	6854663	07-Aug-16	15.9	WHI16000233	0.0031	3.1
AA070884	soil	2016	UTM83-9	530156	6854659	07-Aug-16	3.4	WHI16000233	0.0001	0.1
AA070885	soil	2016	UTM83-9	530206	6854663	07-Aug-16	7.3	WHI16000233	0.0019	1.9
AA070886	soil	2016	UTM83-9	530254	6854662	07-Aug-16	7.3	WHI16000233	0.0023	2.3
AA070887	soil	2016	UTM83-9	530298	6854660	07-Aug-16	4.4	WHI16000233	0.0012	1.2
AA070888	soil	2016	UTM83-9	530353	6854661	07-Aug-16	5.3	WHI16000233	0.0008	0.8
AA070889	soil	2016	UTM83-9	530402	6854660	07-Aug-16	5.2	WHI16000233	0.0017	1.7
AA070890	soil	2016	UTM83-9	530454	6854661	07-Aug-16	7.5	WHI16000233	0.0012	1.2
AA070891	soil	2016	UTM83-9	530502	6854660	07-Aug-16	8.7	WHI16000233	0.0017	1.7
AA070892	soil	2016	UTM83-9	530555	6854661	07-Aug-16	6.2	WHI16000233	0.0013	1.3
AA070893	soil	2016	UTM83-9	530605	6854669	07-Aug-16	15.2	WHI16000233	0.0014	1.4
AA070894	soil	2016	UTM83-9	530656	6854664	07-Aug-16	12.5	WHI16000233	0.0012	1.2
AA070895	soil	2016	UTM83-9	529302	6854861	07-Aug-16	183.8	WHI16000233	0.0268	26.8
AA070896	soil	2016	UTM83-9	529253	6854856	07-Aug-16	5.9	WHI16000233	0.0008	0.8
AA070897	soil	2016	UTM83-9	529206	6854862	07-Aug-16	6.4	WHI16000233	0.0007	0.7
AA070898	soil	2016	UTM83-9	529150	6854867	07-Aug-16	5.6	WHI16000233	0.0005	0.5
AA070899	soil	2016	UTM83-9	529097	6854850	07-Aug-16	18.6	WHI16000233	0.0042	4.2
AA070900	soil	2016	UTM83-9	529054	6854860	07-Aug-16	14.1	WHI16000233	0.0025	2.5
AA070901	soil	2016	UTM83-9	529503	6854563	06-Aug-16	9.7	WHI16000233	0.0022	2.2
AA070902	soil	2016	UTM83-9	529554	6854564	06-Aug-16	5	WHI16000233	0.0009	0.9
AA070903	soil	2016	UTM83-9	529599	6854560	06-Aug-16	6.7	WHI16000233	0.0026	2.6
AA070904	soil	2016	UTM83-9	529646	6854569	06-Aug-16	9.5	WHI16000233	0.0023	2.3
AA070905	soil	2016	UTM83-9	529704	6854563	06-Aug-16	8.7	WHI16000233	0.0034	3.4
AA070906	soil	2016	UTM83-9	529750	6854559	06-Aug-16	8.2	WHI16000233	0.0021	2.1
AA070907	soil	2016	UTM83-9	529801	6854567	06-Aug-16	6.9	WHI16000233	0.0014	1.4
AA070908	soil	2016	UTM83-9	529850	6854557	06-Aug-16	6.1	WHI16000233	0.0015	1.5
AA070909	soil	2016	UTM83-9	529901	6854563	06-Aug-16	8.7	WHI16000233	0.002	2
AA070910	soil	2016	UTM83-9	529952	6854559	06-Aug-16	6	WHI16000233	0.0015	1.5
AA070911	soil	2016	UTM83-9	530000	6854560	06-Aug-16	6	WHI16000233	0.002	2
AA070912	soil	2016	UTM83-9	530051	6854561	06-Aug-16	4.7	WHI16000233	0.0009	0.9
AA070913	soil	2016	UTM83-9	530102	6854561	06-Aug-16	5.7	WHI16000233	0.0014	1.4
AA070914	soil	2016	UTM83-9	530155	6854558	06-Aug-16	6.1	WHI16000233	0.0012	1.2
AA070915	soil	2016	UTM83-9	530205	6854559	06-Aug-16	4.5	WHI16000233	0.0012	1.2
AA070916	soil	2016	UTM83-9	530252	6854557	06-Aug-16	4.4	WHI16000233	0.0012	1.2
AA070917	soil	2016	UTM83-9	530304	6854559	06-Aug-16	6	WHI16000233	0.0012	1.2
AA070918	soil	2016	UTM83-9	530353	6854564	06-Aug-16	16.8	WHI16000233	0.0021	2.1
AA070919	soil	2016	UTM83-9	530402	6854562	06-Aug-16	7.3	WHI16000233	0.001	1
AA070920	soil	2016	UTM83-9	530456	6854561	06-Aug-16	7.5	WHI16000233	0.0014	1.4
AA070921	soil	2016	UTM83-9	530502	6854563	06-Aug-16	6.7	WHI16000233	0.0021	2.1
AA070922	soil	2016	UTM83-9	530554	6854558	06-Aug-16	5	WHI16000233	0.001	1
AA070923	soil	2016	UTM83-9	530604	6854562	06-Aug-16	6.3	WHI16000233	0.0012	1.2
AA070924	soil	2016	UTM83-9	530652	6854559	06-Aug-16	12.6	WHI16000233	0.0005	0.5
AA070925	soil	2016	UTM83-9	529454	6854558	07-Aug-16	7.3	WHI16000233	0.0011	1.1
AA070926	soil	2016	UTM83-9	529402	6854563	07-Aug-16	9.5	WHI16000233	0.0005	0.5
AA070927	soil	2016	UTM83-9	529352	6854560	07-Aug-16	12.6	WHI16000233	0.0019	1.9
AA070928	soil	2016	UTM83-9	529302	6854562	07-Aug-16	6.2	WHI16000233	0.0008	0.8
AA070929	soil	2016	UTM83-9	529245	6854557	07-Aug-16	8.4	WHI16000233	0.0006	0.6
AA070930	soil	2016	UTM83-9	529204	6854556	07-Aug-16	9.6	WHI16000233	0.0018	1.8
AA070931	soil	2016	UTM83-9	529154	6854559	07-Aug-16	20.7	WHI16000233	0.0043	4.3

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA070932	soil	2016	UTM83-9	529103	6854558	07-Aug-16	11.9	WHI16000233	0.0012	1.2
AA070933	soil	2016	UTM83-9	529055	6854560	07-Aug-16	11.3	WHI16000233	0.0024	2.4
AA070934	soil	2016	UTM83-9	529005	6854558	07-Aug-16	9.4	WHI16000233	0.0009	0.9
AA070935	soil	2016	UTM83-9	528955	6854556	07-Aug-16	11.2	WHI16000233	0.0023	2.3
AA070936	soil	2016	UTM83-9	528908	6854556	07-Aug-16	10.1	WHI16000233	0.0019	1.9
AA070937	soil	2016	UTM83-9	528852	6854560	07-Aug-16	16.3	WHI16000233	0.0018	1.8
AA070938	soil	2016	UTM83-9	528807	6854553	07-Aug-16	16.4	WHI16000233	0.0007	0.7
AA070939	soil	2016	UTM83-9	528807	6854553	07-Aug-16	18.9	WHI16000233	0.0017	1.7
AA070940	soil	2016	UTM83-9	528751	6854559	07-Aug-16	18.4	WHI16000233	0.0063	6.3
AA070941	soil	2016	UTM83-9	528703	6854559	07-Aug-16	29.6	WHI16000234	0.0022	2.2
AA070942	soil	2016	UTM83-9	528652	6854562	07-Aug-16	44	WHI16000234	0.0086	8.6
AA070943	soil	2016	UTM83-9	528602	6854559	07-Aug-16	40.8	WHI16000234	0.0136	13.6
AA070944	soil	2016	UTM83-9	528556	6854557	07-Aug-16	39.4	WHI16000234	0.0178	17.8
AA070945	soil	2016	UTM83-9	528502	6854559	07-Aug-16	25.5	WHI16000234	0.0056	5.6
AA070946	soil	2016	UTM83-9	528453	6854560	07-Aug-16	10.7	WHI16000234	0.0025	2.5
AA070947	soil	2016	UTM83-9	528402	6854560	07-Aug-16	8.7	WHI16000234	0.0014	1.4
AA070948	soil	2016	UTM83-9	528354	6854562	07-Aug-16	13.1	WHI16000234	0.0019	1.9
AA070949	soil	2016	UTM83-9	528253	6854558	07-Aug-16	132.6	WHI16000234	0.0074	7.4
AA070950	soil	2016	UTM83-9	528204	6854558	07-Aug-16	95.7	WHI16000234	0.0054	5.4
AA070951	soil	2016	UTM83-9	528851	6854158	04-Aug-16	73.8	WHI16000234	0.0191	19.1
AA070952	soil	2016	UTM83-9	528800	6854155	04-Aug-16	10.8	WHI16000234	0.0012	1.2
AA070953	soil	2016	UTM83-9	528756	6854163	04-Aug-16	137.1	WHI16000234	0.031	31
AA070954	soil	2016	UTM83-9	528691	6854155	04-Aug-16	24.5	WHI16000234	0.0064	6.4
AA070955	soil	2016	UTM83-9	528652	6854158	04-Aug-16	54.6	WHI16000234	0.0126	12.6
AA070956	soil	2016	UTM83-9	528601	6854166	04-Aug-16	3.4	WHI16000234	0.0008	0.8
AA070957	soil	2016	UTM83-9	528559	6854167	04-Aug-16	2.2	WHI16000234	0.0008	0.8
AA070958	soil	2016	UTM83-9	528491	6854154	04-Aug-16	24.7	WHI16000234	0.0011	1.1
AA070959	soil	2016	UTM83-9	528450	6854152	04-Aug-16	12	WHI16000234	0.0004	0.4
AA070960	soil	2016	UTM83-9	528401	6854153	04-Aug-16	55.2	WHI16000234	0.0052	5.2
AA070961	soil	2016	UTM83-9	528345	6854170	04-Aug-16	24	WHI16000234	0.0012	1.2
AA070962	soil	2016	UTM83-9	528298	6854158	04-Aug-16	6.4	WHI16000234	0.0004	0.4
AA070963	soil	2016	UTM83-9	528253	6854162	04-Aug-16	28	WHI16000234	0.0023	2.3
AA070964	soil	2016	UTM83-9	528206	6854166	04-Aug-16	29.6	WHI16000234	0.0011	1.1
AA070965	soil	2016	UTM83-9	527059	6854172	05-Aug-16	36.5	WHI16000234	0.0103	10.3
AA070966	soil	2016	UTM83-9	527106	6854161	05-Aug-16	29.4	WHI16000234	0.0113	11.3
AA070967	soil	2016	UTM83-9	527150	6854172	05-Aug-16	57	WHI16000234	0.0127	12.7
AA070968	soil	2016	UTM83-9	527206	6854165	05-Aug-16	129.4	WHI16000234	0.051	51
AA070969	soil	2016	UTM83-9	527254	6854165	05-Aug-16	69.6	WHI16000234	0.088	88
AA070970	soil	2016	UTM83-9	527303	6854159	05-Aug-16	26.4	WHI16000234	0.0001	0.1
AA070971	soil	2016	UTM83-9	527343	6854152	05-Aug-16	17.9	WHI16000234	0.0033	3.3
AA070972	soil	2016	UTM83-9	527395	6854152	05-Aug-16	7.2	WHI16000234	0.0008	0.8
AA070973	soil	2016	UTM83-9	527447	6854154	05-Aug-16	6.5	WHI16000234	0.0006	0.6
AA070974	soil	2016	UTM83-9	527497	6854156	05-Aug-16	28.7	WHI16000234	0.0017	1.7
AA070975	soil	2016	UTM83-9	527497	6854156	05-Aug-16	33.8	WHI16000234	0.004	4
AA070976	soil	2016	UTM83-9	527547	6854154	05-Aug-16	22.3	WHI16000234	0.0011	1.1
AA070977	soil	2016	UTM83-9	527605	6854161	05-Aug-16	83.4	WHI16000234	0.0131	13.1
AA070978	soil	2016	UTM83-9	527651	6854160	05-Aug-16	141.9	WHI16000234	0.0285	28.5
AA070979	soil	2016	UTM83-9	527702	6854158	05-Aug-16	83	WHI16000234	0.0258	25.8
AA070980	soil	2016	UTM83-9	527742	6854160	05-Aug-16	199.6	WHI16000234	0.0338	33.8
AA070981	soil	2016	UTM83-9	527797	6854158	05-Aug-16	198.3	WHI16000234	0.0339	33.9
AA070982	soil	2016	UTM83-9	527850	6854160	05-Aug-16	28.2	WHI16000234	0.0042	4.2
AA070983	soil	2016	UTM83-9	527898	6854157	05-Aug-16	52.3	WHI16000234	0.0099	9.9
AA070984	soil	2016	UTM83-9	527965	6854161	05-Aug-16	68.5	WHI16000234	0.0106	10.6
AA070985	soil	2016	UTM83-9	528000	6854155	05-Aug-16	33.7	WHI16000234	0.0083	8.3
AA070986	soil	2016	UTM83-9	528061	6854162	05-Aug-16	19	WHI16000234	0.003	3
AA070987	soil	2016	UTM83-9	528106	6854172	05-Aug-16	44.1	WHI16000234	0.007	7
AA070988	soil	2016	UTM83-9	528152	6854158	05-Aug-16	32	WHI16000234	0.0056	5.6
AA070989	soil	2016	UTM83-9	529602	6854762	06-Aug-16	6.4	WHI16000234	0.0022	2.2
AA070990	soil	2016	UTM83-9	529640	6854759	06-Aug-16	7.8	WHI16000234	0.0037	3.7
AA070991	soil	2016	UTM83-9	529698	6854762	06-Aug-16	7.1	WHI16000234	0.0032	3.2
AA070992	soil	2016	UTM83-9	529759	6854760	06-Aug-16	8.3	WHI16000234	0.0031	3.1

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA070993	soil	2016	UTM83-9	529798	6854760	06-Aug-16	7.6	WHI16000234	0.0015	1.5
AA070994	soil	2016	UTM83-9	529856	6854763	06-Aug-16	7.7	WHI16000234	0.0022	2.2
AA070995	soil	2016	UTM83-9	529902	6854757	06-Aug-16	33.2	WHI16000234	0.0098	9.8
AA070996	soil	2016	UTM83-9	529948	6854757	06-Aug-16	5.9	WHI16000234	0.0033	3.3
AA070997	soil	2016	UTM83-9	529995	6854755	06-Aug-16	10.5	WHI16000234	0.0024	2.4
AA070998	soil	2016	UTM83-9	530050	6854758	06-Aug-16	7	WHI16000234	0.0009	0.9
AA070999	soil	2016	UTM83-9	530150	6854758	06-Aug-16	9.9	WHI16000234	0.0023	2.3
AA071000	soil	2016	UTM83-9	530202	6854760	06-Aug-16	6.2	WHI16000234	0.0181	18.1
AA071001	soil	2016	UTM83-9	530615	6846546	17-Aug-16	50.8	WHI16000236	0.0012	1.2
AA071002	soil	2016	UTM83-9	530562	6846630	17-Aug-16	98.5	WHI16000236	0.0062	6.2
AA071003	soil	2016	UTM83-9	530520	6846723	17-Aug-16	67.5	WHI16000236	0.0045	4.5
AA071004	soil	2016	UTM83-9	530477	6846810	17-Aug-16	77.8	WHI16000236	0.0111	11.1
AA071005	soil	2016	UTM83-9	530425	6846898	17-Aug-16	35.6	WHI16000236	0.0046	4.6
AA071006	soil	2016	UTM83-9	530374	6846985	17-Aug-16	45	WHI16000236	0.0031	3.1
AA071007	soil	2016	UTM83-9	530316	6847064	17-Aug-16	39.9	WHI16000236	0.0026	2.6
AA071008	soil	2016	UTM83-9	530292	6847163	17-Aug-16	27.1	WHI16000236	0.001	1
AA071009	soil	2016	UTM83-9	530286	6847253	17-Aug-16	21	WHI16000236	0.0057	5.7
AA071010	soil	2016	UTM83-9	530152	6847404	17-Aug-16	11.4	WHI16000236	0.0007	0.7
AA071011	soil	2016	UTM83-9	530225	6847335	17-Aug-16	42.6	WHI16000236	0.0038	3.8
AA071012	soil	2016	UTM83-9	530110	6847500	17-Aug-16	16.2	WHI16000236	0.0015	1.5
AA071013	soil	2016	UTM83-9	530082	6847599	17-Aug-16	27.4	WHI16000236	0.0019	1.9
AA071014	soil	2016	UTM83-9	530036	6847704	17-Aug-16	13.4	WHI16000236	0.0009	0.9
AA071015	soil	2016	UTM83-9	529957	6847736	17-Aug-16	38	WHI16000236	0.0041	4.1
AA071016	soil	2016	UTM83-9	529928	6847820	17-Aug-16	16.1	WHI16000236	0.0024	2.4
AA071017	soil	2016	UTM83-9	529926	6847920	17-Aug-16	3.1	WHI16000236	0.0017	1.7
AA071018	soil	2016	UTM83-9	529920	6848013	17-Aug-16	19.6	WHI16000236	0.0006	0.6
AA071019	soil	2016	UTM83-9	529909	6848108	17-Aug-16	30.4	WHI16000236	0.0026	2.6
AA071020	soil	2016	UTM83-9	529885	6848204	17-Aug-16	33.5	WHI16000236	0.0047	4.7
AA071021	soil	2016	UTM83-9	529854	6848303	18-Aug-16	14.8	WHI16000236	0.0006	0.6
AA071022	soil	2016	UTM83-9	529830	6848392	18-Aug-16	20.3	WHI16000236	0.0009	0.9
AA071023	soil	2016	UTM83-9	529774	6848487	18-Aug-16	8.1	WHI16000236	0.0048	4.8
AA071024	soil	2016	UTM83-9	529727	6848570	18-Aug-16	9.3	WHI16000236	0.0004	0.4
AA071025	soil	2016	UTM83-9	529711	6848674	18-Aug-16	15.4	WHI16000236	0.0024	2.4
AA071026	soil	2016	UTM83-9	529710	6848770	18-Aug-16	6.4	WHI16000236	0.0003	0.3
AA071027	soil	2016	UTM83-9	529718	6848863	18-Aug-16	23.3	WHI16000236	0.0056	5.6
AA071028	soil	2016	UTM83-9	529715	6848953	18-Aug-16	27	WHI16000236	0.0032	3.2
AA071029	soil	2016	UTM83-9	529700	6849063	18-Aug-16	20.1	WHI16000236	0.0037	3.7
AA071030	soil	2016	UTM83-9	529719	6849166	18-Aug-16	54.2	WHI16000236	0.0046	4.6
AA071031	soil	2016	UTM83-9	529744	6849259	18-Aug-16	32.6	WHI16000271	0.0024	2.4
AA071032	soil	2016	UTM83-9	529752	6849348	18-Aug-16	47	WHI16000271	0.0029	2.9
AA071033	soil	2016	UTM83-9	529821	6849425	18-Aug-16	43.5	WHI16000271	0.0034	3.4
AA071034	soil	2016	UTM83-9	529865	6849520	18-Aug-16	40.5	WHI16000271	0.0038	3.8
AA071035	soil	2016	UTM83-9	529915	6849595	18-Aug-16	86.5	WHI16000271	0.0026	2.6
AA071036	soil	2016	UTM83-9	530633	6856559	19-Aug-16	7	WHI16000271	0.0014	1.4
AA071037	soil	2016	UTM83-9	530717	6856607	19-Aug-16	15.7	WHI16000271	0.001	1
AA071038	soil	2016	UTM83-9	530808	6856636	19-Aug-16	9.6	WHI16000271	0.0021	2.1
AA071039	soil	2016	UTM83-9	530904	6856667	19-Aug-16	7.6	WHI16000271	0.001	1
AA071040	soil	2016	UTM83-9	531000	6856704	19-Aug-16	10.7	WHI16000271	0.0026	2.6
AA071041	soil	2016	UTM83-9	531061	6856783	19-Aug-16	17.1	WHI16000235	0.0023	2.3
AA071042	soil	2016	UTM83-9	531116	6856858	19-Aug-16	4.6	WHI16000235	0.0015	1.5
AA071043	soil	2016	UTM83-9	531177	6856936	19-Aug-16	2.7	WHI16000235	0.0013	1.3
AA071044	soil	2016	UTM83-9	531260	6856992	19-Aug-16	5.6	WHI16000235	0.001	1
AA071045	soil	2016	UTM83-9	531350	6857023	19-Aug-16	3.8	WHI16000235	0.0001	0.1
AA071046	soil	2016	UTM83-9	531455	6856987	19-Aug-16	4.1	WHI16000235	0.0017	1.7
AA071047	soil	2016	UTM83-9	531555	6856984	19-Aug-16	12.7	WHI16000235	0.0026	2.6
AA071048	soil	2016	UTM83-9	531555	6856985	19-Aug-16	10.9	WHI16000235	0.0018	1.8
AA071049	soil	2016	UTM83-9	531656	6856996	19-Aug-16	25.8	WHI16000235	0.0007	0.7
AA071050	soil	2016	UTM83-9	531749	6857015	19-Aug-16	255.7	WHI16000235	0.0318	31.8
AA071587	soil	2016	UTM83-9	535739	6845388	27-Aug-16	274.4	WHI16000273	0.0107	10.7
AA071588	soil	2016	UTM83-9	535704	6845346	27-Aug-16	355.2	WHI16000273	0.0134	13.4
AA071589	soil	2016	UTM83-9	535677	6845307	27-Aug-16	234.6	WHI16000273	0.0532	53.2

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA071590	soil	2016	UTM83-9	535646	6845265	27-Aug-16	461.9	WHI16000273	0.0093	9.3
AA071591	soil	2016	UTM83-9	535646	6845265	27-Aug-16	421.4	WHI16000273	0.1038	103.8
AA071592	soil	2016	UTM83-9	535607	6845227	27-Aug-16	331.3	WHI16000273	0.0156	15.6
AA071593	soil	2016	UTM83-9	535586	6845183	27-Aug-16	275.4	WHI16000273	0.0635	63.5
AA071594	soil	2016	UTM83-9	535553	6845152	27-Aug-16	292.9	WHI16000273	0.0114	11.4
AA071595	soil	2016	UTM83-9	535517	6845117	27-Aug-16	299.6	WHI16000273	0.0266	26.6
AA071596	soil	2016	UTM83-9	535485	6845077	27-Aug-16	637.2	WHI16000273	0.091	91
AA071597	soil	2016	UTM83-9	535462	6845040	27-Aug-16	496.7	WHI16000273	0.0186	18.6
AA071598	soil	2016	UTM83-9	535433	6844995	27-Aug-16	102.2	WHI16000273	0.0089	8.9
AA071599	soil	2016	UTM83-9	535407	6844942	27-Aug-16	74.4	WHI16000273	0.0031	3.1
AA071600	soil	2016	UTM83-9	535365	6844911	27-Aug-16	76.1	WHI16000273	0.0148	14.8
AA071601	soil	2016	UTM83-9	530450	6844294	30-Aug-16	16.1	WHI16000272	0.0022	2.2
AA071602	soil	2016	UTM83-9	530482	6844335	30-Aug-16	49	WHI16000272	0.2739	273.9
AA071603	soil	2016	UTM83-9	530511	6844373	30-Aug-16	34	WHI16000272	0.0001	0.1
AA071604	soil	2016	UTM83-9	530543	6844411	30-Aug-16	28.5	WHI16000272	0.0015	1.5
AA071605	soil	2016	UTM83-9	530573	6844452	30-Aug-16	41.2	WHI16000272	0.0034	3.4
AA071606	soil	2016	UTM83-9	530605	6844492	30-Aug-16	45	WHI16000272	0.0031	3.1
AA071607	soil	2016	UTM83-9	530634	6844533	30-Aug-16	20.8	WHI16000272	0.0007	0.7
AA071608	soil	2016	UTM83-9	530666	6844572	30-Aug-16	37.7	WHI16000272	0.0026	2.6
AA071609	soil	2016	UTM83-9	530695	6844610	30-Aug-16	39.5	WHI16000272	0.0055	5.5
AA071610	soil	2016	UTM83-9	530727	6844650	30-Aug-16	7.6	WHI16000272	0.001	1
AA071501	soil	2016	UTM83-9	536024	6845116	29-Aug-16	55	WHI16000273	0.0029	2.9
AA071502	soil	2016	UTM83-9	535985	6845076	29-Aug-16	60.7	WHI16000273	0.005	5
AA071503	soil	2016	UTM83-9	535689	6844671	29-Aug-16	50.8	WHI16000273	0.0039	3.9
AA071504	soil	2016	UTM83-9	535715	6844699	29-Aug-16	63.2	WHI16000273	0.0047	4.7
AA071505	soil	2016	UTM83-9	535748	6844748	29-Aug-16	91.3	WHI16000273	0.0035	3.5
AA071506	soil	2016	UTM83-9	535778	6844790	29-Aug-16	126.7	WHI16000273	0.0205	20.5
AA071507	soil	2016	UTM83-9	535808	6844828	29-Aug-16	415.1	WHI16000273	0.0086	8.6
AA071508	soil	2016	UTM83-9	535840	6844870	29-Aug-16	227.9	WHI16000273	0.0174	17.4
AA071509	soil	2016	UTM83-9	535870	6844910	29-Aug-16	196.7	WHI16000273	0.013	13
AA071510	soil	2016	UTM83-9	535899	6844950	29-Aug-16	61.6	WHI16000273	0.013	13
AA071511	soil	2016	UTM83-9	535929	6844990	29-Aug-16	158.2	WHI16000274	0.0115	11.5
AA071512	soil	2016	UTM83-9	535959	6845029	29-Aug-16	67.5	WHI16000274	0.0109	10.9
AA071513	soil	2016	UTM83-9	535959	6845029	29-Aug-16	69.1	WHI16000274	0.0117	11.7
AA071514	soil	2016	UTM83-9	531182	6844252	31-Aug-16	18.2	WHI16000274	0.0026	2.6
AA071515	soil	2016	UTM83-9	531136	6844204	31-Aug-16	33.6	WHI16000274	0.0048	4.8
AA071516	soil	2016	UTM83-9	531136	6844204	31-Aug-16	27.9	WHI16000274	0.0089	8.9
AA071517	soil	2016	UTM83-9	531107	6844160	31-Aug-16	29.6	WHI16000274	0.0084	8.4
AA071518	soil	2016	UTM83-9	531072	6844120	31-Aug-16	27.5	WHI16000274	0.0077	7.7
AA071519	soil	2016	UTM83-9	531054	6844092	31-Aug-16	38.1	WHI16000274	0.0018	1.8
AA071520	soil	2016	UTM83-9	531005	6844045	31-Aug-16	32.6	WHI16000274	0.0207	20.7
AA071521	soil	2016	UTM83-9	530980	6844010	31-Aug-16	28.3	WHI16000274	0.0029	2.9
AA071522	soil	2016	UTM83-9	530954	6843972	31-Aug-16	39.3	WHI16000274	0.0037	3.7
AA071523	soil	2016	UTM83-9	530922	6843928	31-Aug-16	21.3	WHI16000274	0.0001	0.1
AA071524	soil	2016	UTM83-9	530891	6843890	31-Aug-16	37.4	WHI16000274	0.0073	7.3
AA071525	soil	2016	UTM83-9	530856	6843856	31-Aug-16	31.9	WHI16000274	0.0012	1.2
AA071526	soil	2016	UTM83-9	535992	6845740	28-Aug-16	41.2	WHI16000274	0.0023	2.3
AA071527	soil	2016	UTM83-9	536035	6845773	28-Aug-16	372.3	WHI16000274	0.0137	13.7
AA071528	soil	2016	UTM83-9	536085	6845869	28-Aug-16	69.1	WHI16000274	0.0016	1.6
AA071529	soil	2016	UTM83-9	536122	6845910	28-Aug-16	34.2	WHI16000274	0.0035	3.5
AA071530	soil	2016	UTM83-9	536147	6845946	28-Aug-16	43.7	WHI16000274	0.0028	2.8
AA071531	soil	2016	UTM83-9	536181	6845992	28-Aug-16	25.9	WHI16000274	0.0041	4.1
AA071532	soil	2016	UTM83-9	536322	6845882	28-Aug-16	87.4	WHI16000274	0.0092	9.2
AA071533	soil	2016	UTM83-9	536308	6845828	28-Aug-16	132	WHI16000274	0.0155	15.5
AA071534	soil	2016	UTM83-9	536275	6845784	28-Aug-16	140.8	WHI16000274	0.0437	43.7
AA071535	soil	2016	UTM83-9	536267	6845757	28-Aug-16	65.1	WHI16000274	0.0069	6.9
AA071536	soil	2016	UTM83-9	536223	6845730	28-Aug-16	144.8	WHI16000274	0.0153	15.3
AA071537	soil	2016	UTM83-9	536196	6845678	28-Aug-16	104.5	WHI16000274	0.0086	8.6
AA071538	soil	2016	UTM83-9	536157	6845642	28-Aug-16	104.8	WHI16000274	0.011	11
AA071539	soil	2016	UTM83-9	536126	6845590	28-Aug-16	141.1	WHI16000274	0.0275	27.5
AA071540	soil	2016	UTM83-9	536111	6845561	28-Aug-16	94.6	WHI16000274	0.0113	11.3

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA071541	soil	2016	UTM83-9	536073	6845504	28-Aug-16	89.2	WHI16000273	0.0067	6.7
AA071542	soil	2016	UTM83-9	536044	6845471	28-Aug-16	149.7	WHI16000273	0.0063	6.3
AA071543	soil	2016	UTM83-9	536015	6845438	28-Aug-16	126.2	WHI16000273	0.009	9
AA071544	soil	2016	UTM83-9	536240	6845382	29-Aug-16	66.7	WHI16000273	0.0059	5.9
AA071545	soil	2016	UTM83-9	536213	6845353	29-Aug-16	291.7	WHI16000273	0.0053	5.3
AA071546	soil	2016	UTM83-9	536180	6845307	29-Aug-16	73.7	WHI16000273	0.0036	3.6
AA071547	soil	2016	UTM83-9	536143	6845277	29-Aug-16	88	WHI16000273	0.0025	2.5
AA071548	soil	2016	UTM83-9	536106	6845238	29-Aug-16	205.6	WHI16000273	0.0288	28.8
AA071549	soil	2016	UTM83-9	536079	6845185	29-Aug-16	87.4	WHI16000273	0.004	4
AA071550	soil	2016	UTM83-9	536043	6845148	29-Aug-16	79.5	WHI16000273	0.0066	6.6
AA071551	soil	2016	UTM83-9	535868	6845918	25-Aug-16	26.6	WHI16000273	0.0031	3.1
AA071552	soil	2016	UTM83-9	535868	6845919	25-Aug-16	25.9	WHI16000273	0.0077	7.7
AA071553	soil	2016	UTM83-9	535840	6845872	25-Aug-16	132.2	WHI16000273	0.0104	10.4
AA071554	soil	2016	UTM83-9	535812	6845835	25-Aug-16	180.8	WHI16000273	0.0109	10.9
AA071555	soil	2016	UTM83-9	535780	6845791	25-Aug-16	180.2	WHI16000273	0.0163	16.3
AA071556	soil	2016	UTM83-9	535751	6845750	25-Aug-16	186.8	WHI16000273	0.0098	9.8
AA071557	soil	2016	UTM83-9	535716	6845712	25-Aug-16	221.1	WHI16000273	0.0088	8.8
AA071558	soil	2016	UTM83-9	535689	6845676	25-Aug-16	99.6	WHI16000273	0.0262	26.2
AA071559	soil	2016	UTM83-9	535660	6845629	25-Aug-16	318.7	WHI16000273	0.0209	20.9
AA071560	soil	2016	UTM83-9	535640	6845590	25-Aug-16	117.6	WHI16000273	0.0082	8.2
AA071561	soil	2016	UTM83-9	536191	6845165	26-Aug-16	128.8	WHI16000272	0.0045	4.5
AA071562	soil	2016	UTM83-9	536220	6845210	26-Aug-16	89.6	WHI16000272	0.0035	3.5
AA071563	soil	2016	UTM83-9	536250	6845249	26-Aug-16	57.6	WHI16000272	0.0033	3.3
AA071564	soil	2016	UTM83-9	536281	6845287	26-Aug-16	80.7	WHI16000272	0.0047	4.7
AA071565	soil	2016	UTM83-9	536317	6845332	26-Aug-16	91.3	WHI16000272	0.0084	8.4
AA071566	soil	2016	UTM83-9	536347	6845370	26-Aug-16	85.9	WHI16000272	0.0038	3.8
AA071567	soil	2016	UTM83-9	536371	6845410	26-Aug-16	131.8	WHI16000272	0.0119	11.9
AA071568	soil	2016	UTM83-9	536403	6845447	26-Aug-16	135.5	WHI16000272	0.0111	11.1
AA071569	soil	2016	UTM83-9	536436	6845482	26-Aug-16	114.9	WHI16000272	0.0118	11.8
AA071570	soil	2016	UTM83-9	536467	6845529	26-Aug-16	89.5	WHI16000272	0.0078	7.8
AA071571	soil	2016	UTM83-9	536488	6845571	26-Aug-16	132.6	WHI16000272	0.0124	12.4
AA071572	soil	2016	UTM83-9	536519	6845615	26-Aug-16	94.7	WHI16000272	0.0058	5.8
AA071573	soil	2016	UTM83-9	536550	6845642	26-Aug-16	94.7	WHI16000272	0.0089	8.9
AA071574	soil	2016	UTM83-9	536582	6845691	26-Aug-16	23.8	WHI16000272	0.0022	2.2
AA071575	soil	2016	UTM83-9	536658	6845632	26-Aug-16	19	WHI16000272	0.0011	1.1
AA071576	soil	2016	UTM83-9	536630	6845590	26-Aug-16	76.3	WHI16000272	0.0071	7.1
AA071577	soil	2016	UTM83-9	536604	6845549	26-Aug-16	80.4	WHI16000272	0.0154	15.4
AA071578	soil	2016	UTM83-9	536566	6845508	26-Aug-16	92.1	WHI16000272	0.0083	8.3
AA071579	soil	2016	UTM83-9	536435	6845361	26-Aug-16	93.9	WHI16000272	0.0082	8.2
AA071580	soil	2016	UTM83-9	536416	6845305	26-Aug-16	31.4	WHI16000272	0.0027	2.7
AA071581	soil	2016	UTM83-9	536392	6845263	26-Aug-16	32.4	WHI16000273	0.002	2
AA071582	soil	2016	UTM83-9	536361	6845229	26-Aug-16	60.9	WHI16000273	0.0035	3.5
AA071583	soil	2016	UTM83-9	536329	6845190	26-Aug-16	61	WHI16000273	0.0035	3.5
AA071584	soil	2016	UTM83-9	536299	6845146	26-Aug-16	95	WHI16000273	0.006	6
AA071585	soil	2016	UTM83-9	536270	6845115	26-Aug-16	118.3	WHI16000273	0.0064	6.4
AA071586	soil	2016	UTM83-9	535753	6845431	27-Aug-16	111.4	WHI16000273	0.006	6
AA071611	soil	2016	UTM83-9	531249	6844181	31-Aug-16	16.5	WHI16000273	0.0027	2.7
AA071612	soil	2016	UTM83-9	531219	6844141	31-Aug-16	23.2	WHI16000273	0.0017	1.7
AA071613	soil	2016	UTM83-9	531219	6844141	31-Aug-16	24.5	WHI16000273	0.0033	3.3
AA071614	soil	2016	UTM83-9	531188	6844102	31-Aug-16	41.1	WHI16000273	0.0103	10.3
AA071615	soil	2016	UTM83-9	531156	6844063	31-Aug-16	14.5	WHI16000273	0.0019	1.9
AA071616	soil	2016	UTM83-9	531124	6844022	31-Aug-16	13.9	WHI16000273	0.0016	1.6
AA071617	soil	2016	UTM83-9	531094	6843982	31-Aug-16	35.7	WHI16000273	0.0037	3.7
AA071618	soil	2016	UTM83-9	531062	6843944	31-Aug-16	5.4	WHI16000273	0.0005	0.5
AA071619	soil	2016	UTM83-9	531034	6843904	31-Aug-16	14.9	WHI16000273	0.0007	0.7
AA071620	soil	2016	UTM83-9	531002	6843864	31-Aug-16	28.5	WHI16000273	0.0008	0.8
AA071621	soil	2016	UTM83-9	530973	6843826	31-Aug-16	32.1	WHI16000273	0.0029	2.9
AA071622	soil	2016	UTM83-9	530942	6843786	31-Aug-16	34.6	WHI16000273	0.0027	2.7
AA071623	soil	2016	UTM83-9	530912	6843747	31-Aug-16	34.5	WHI16000273	0.0024	2.4
AA071624	soil	2016	UTM83-9	530880	6843707	31-Aug-16	37.7	WHI16000273	0.0038	3.8
AA071625	soil	2016	UTM83-9	530849	6843668	31-Aug-16	13.8	WHI16000273	0.0001	0.1

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA071626	soil	2016	UTM83-9	535961	6845531	28-Aug-16	123.4	WHI16000273	0.0021	2.1
AA071627	soil	2016	UTM83-9	535931	6845490	28-Aug-16	116.7	WHI16000273	0.0013	1.3
AA071628	soil	2016	UTM83-9	535900	6845450	28-Aug-16	299.4	WHI16000273	0.0198	19.8
AA071629	soil	2016	UTM83-9	535869	6845410	28-Aug-16	155.4	WHI16000273	0.0074	7.4
AA071630	soil	2016	UTM83-9	535840	6845369	28-Aug-16	224.2	WHI16000273	0.0116	11.6
AA071631	soil	2016	UTM83-9	536150	6845449	29-Aug-16	95.1	WHI16000273	0.0094	9.4
AA071632	soil	2016	UTM83-9	536150	6845449	29-Aug-16	98	WHI16000273	0.0054	5.4
AA071633	soil	2016	UTM83-9	536119	6845409	29-Aug-16	68.7	WHI16000273	0.0029	2.9
AA071634	soil	2016	UTM83-9	536091	6845368	29-Aug-16	102.3	WHI16000273	0.0072	7.2
AA071635	soil	2016	UTM83-9	536032	6845288	29-Aug-16	167.8	WHI16000273	0.0058	5.8
AA071636	soil	2016	UTM83-9	536000	6845250	29-Aug-16	213.6	WHI16000273	0.0107	10.7
AA071637	soil	2016	UTM83-9	535968	6845210	29-Aug-16	132.7	WHI16000273	0.0082	8.2
AA071638	soil	2016	UTM83-9	535942	6845168	29-Aug-16	135.4	WHI16000273	0.0451	45.1
AA071639	soil	2016	UTM83-9	535911	6845130	29-Aug-16	23	WHI16000273	0.0034	3.4
AA071640	soil	2016	UTM83-9	535881	6845091	29-Aug-16	122.1	WHI16000273	0.0063	6.3
AA071641	soil	2016	UTM83-9	535849	6845047	29-Aug-16	45.7	WHI16000272	0.0016	1.6
AA071642	soil	2016	UTM83-9	535820	6845010	29-Aug-16	350.8	WHI16000272	0.0119	11.9
AA071643	soil	2016	UTM83-9	535790	6844968	29-Aug-16	262.7	WHI16000272	0.0427	42.7
AA071644	soil	2016	UTM83-9	535761	6844927	29-Aug-16	510.9	WHI16000272	0.0358	35.8
AA071645	soil	2016	UTM83-9	535727	6844892	29-Aug-16	637	WHI16000272	0.0154	15.4
AA071646	soil	2016	UTM83-9	535700	6844848	29-Aug-16	123.5	WHI16000272	0.0192	19.2
AA071647	soil	2016	UTM83-9	535668	6844810	29-Aug-16	154.5	WHI16000272	0.0065	6.5
AA071648	soil	2016	UTM83-9	535638	6844769	29-Aug-16	105.8	WHI16000272	0.0111	11.1
AA071649	soil	2016	UTM83-9	535610	6844728	29-Aug-16	143.1	WHI16000272	0.0086	8.6
AA071650	soil	2016	UTM83-9	530805	6844588	30-Aug-16	7.6	WHI16000272	0.0003	0.3
AA071651	soil	2016	UTM83-9	530740	6844832	01-Sep-16	4.1	WHI16000274	0.0013	1.3
AA071652	soil	2016	UTM83-9	530769	6844866	01-Sep-16	15.8	WHI16000274	0.0015	1.5
AA071653	soil	2016	UTM83-9	530803	6844907	01-Sep-16	7.8	WHI16000274	0.0016	1.6
AA071654	soil	2016	UTM83-9	530840	6844945	01-Sep-16	11.1	WHI16000274	0.0014	1.4
AA071655	soil	2016	UTM83-9	530865	6844989	01-Sep-16	20.6	WHI16000274	0.0039	3.9
AA071656	soil	2016	UTM83-9	530891	6845026	01-Sep-16	4.6	WHI16000274	0.0001	0.1
AA071657	soil	2016	UTM83-9	530926	6845065	01-Sep-16	42.7	WHI16000274	0.0024	2.4
AA071658	soil	2016	UTM83-9	530952	6845105	01-Sep-16	21.8	WHI16000274	0.0037	3.7
AA071659	soil	2016	UTM83-9	530985	6845145	01-Sep-16	5.5	WHI16000274	0.0001	0.1
AA071660	soil	2016	UTM83-9	531013	6845183	01-Sep-16	23.7	WHI16000274	0.0029	2.9
AA071661	soil	2016	UTM83-9	531047	6845222	01-Sep-16	22.3	WHI16000274	0.0004	0.4
AA071662	soil	2016	UTM83-9	531047	6845222	01-Sep-16	42.5	WHI16000274	0.0018	1.8
AA071663	soil	2016	UTM83-9	531078	6845265	01-Sep-16	14.6	WHI16000274	0.0001	0.1
AA071664	soil	2016	UTM83-9	531112	6845304	01-Sep-16	15.2	WHI16000274	0.0001	0.1
AA071665	soil	2016	UTM83-9	531139	6845347	01-Sep-16	13.2	WHI16000274	0.0001	0.1
AA071666	soil	2016	UTM83-9	531170	6845382	01-Sep-16	19.5	WHI16000274	0.001	1
AA071667	soil	2016	UTM83-9	531406	6845195	01-Sep-16	51.2	WHI16000274	0.0352	35.2
AA071668	soil	2016	UTM83-9	531375	6845172	01-Sep-16	47.7	WHI16000274	0.0071	7.1
AA071669	soil	2016	UTM83-9	531348	6845120	01-Sep-16	48.6	WHI16000274	0.0112	11.2
AA071670	soil	2016	UTM83-9	531310	6845076	01-Sep-16	35.6	WHI16000274	0.0033	3.3
AA071671	soil	2016	UTM83-9	531255	6845001	01-Sep-16	18	WHI16000274	0.0023	2.3
AA071672	soil	2016	UTM83-9	531223	6844959	01-Sep-16	30.8	WHI16000274	0.0039	3.9
AA071673	soil	2016	UTM83-9	531192	6844921	01-Sep-16	34.1	WHI16000274	0.0004	0.4
AA071674	soil	2016	UTM83-9	531162	6844882	01-Sep-16	13.9	WHI16000274	0.0005	0.5
AA071675	soil	2016	UTM83-9	530932	6844573	02-Sep-16	69.6	WHI16000274	0.0025	2.5
AA071676	soil	2016	UTM83-9	530949	6844608	02-Sep-16	10.9	WHI16000274	0.0001	0.1
AA071677	soil	2016	UTM83-9	530979	6844644	02-Sep-16	22.2	WHI16000274	0.0078	7.8
AA071678	soil	2016	UTM83-9	531011	6844687	02-Sep-16	16.1	WHI16000274	0.002	2
AA071679	soil	2016	UTM83-9	531043	6844722	02-Sep-16	6.7	WHI16000274	0.0005	0.5
AA071680	soil	2016	UTM83-9	531072	6844766	02-Sep-16	28.1	WHI16000274	0.0007	0.7
AA071681	soil	2016	UTM83-9	531100	6844804	02-Sep-16	19.7	WHI16000274	0.0015	1.5
AA071682	soil	2016	UTM83-9	531135	6844828	02-Sep-16	18.4	WHI16000274	0.0038	3.8
AA071683	soil	2016	UTM83-9	531239	6844818	02-Sep-16	31.1	WHI16000274	0.0025	2.5
AA071684	soil	2016	UTM83-9	531258	6844851	02-Sep-16	27	WHI16000274	0.0041	4.1
AA071685	soil	2016	UTM83-9	531303	6844900	02-Sep-16	36.7	WHI16000274	0.0045	4.5
AA071686	soil	2016	UTM83-9	531335	6844938	02-Sep-16	34.9	WHI16000274	0.005	5

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA071687	soil	2016	UTM83-9	531365	6844980	02-Sep-16	35.9	WHI16000274	0.0042	4.2
AA071688	soil	2016	UTM83-9	531652	6845029	02-Sep-16	23.1	WHI16000274	0.0051	5.1
AA071689	soil	2016	UTM83-9	531612	6844970	02-Sep-16	31.8	WHI16000274	0.0071	7.1
AA071690	soil	2016	UTM83-9	531579	6844944	02-Sep-16	16.1	WHI16000274	0.0019	1.9
AA071691	soil	2016	UTM83-9	531550	6844894	02-Sep-16	33	WHI16000274	0.0039	3.9
AA071692	soil	2016	UTM83-9	531523	6844854	02-Sep-16	37.5	WHI16000274	0.0044	4.4
AA071693	soil	2016	UTM83-9	531492	6844816	02-Sep-16	19.8	WHI16000274	0.0026	2.6
AA071694	soil	2016	UTM83-9	531458	6844779	02-Sep-16	15.8	WHI16000274	0.0019	1.9
AA071695	soil	2016	UTM83-9	531430	6844740	02-Sep-16	21.4	WHI16000274	0.0043	4.3
AA071696	soil	2016	UTM83-9	531398	6844700	02-Sep-16	23.4	WHI16000274	0.0032	3.2
AA071697	soil	2016	UTM83-9	531361	6844673	02-Sep-16	25.4	WHI16000274	0.0043	4.3
AA071698	soil	2016	UTM83-9	531361	6844673	02-Sep-16	27.2	WHI16000274	0.0038	3.8
AA071699	soil	2016	UTM83-9	531335	6844619	02-Sep-16	22.6	WHI16000274	0.012	12
AA071700	soil	2016	UTM83-9	531304	6844587	02-Sep-16	16.9	WHI16000274	0.0026	2.6
AA071701	soil	2016	UTM83-9	535682	6844982	28-Aug-16	223.5	WHI16000273	0.0382	38.2
AA071702	soil	2016	UTM83-9	535657	6844945	28-Aug-16	736.2	WHI16000273	0.0205	20.5
AA071703	soil	2016	UTM83-9	535621	6844909	28-Aug-16	104.3	WHI16000273	0.0055	5.5
AA071704	soil	2016	UTM83-9	535582	6844878	28-Aug-16	137.2	WHI16000273	0.3585	358.5
AA071705	soil	2016	UTM83-9	535582	6844877	28-Aug-16	142.9	WHI16000273	0.0101	10.1
AA071706	soil	2016	UTM83-9	535558	6844819	28-Aug-16	116.5	WHI16000273	0.008	8
AA071707	soil	2016	UTM83-9	535530	6844784	28-Aug-16	133	WHI16000273	0.0736	73.6
AA071708	soil	2016	UTM83-9	535449	6844853	28-Aug-16	112.7	WHI16000273	0.0076	7.6
AA071709	soil	2016	UTM83-9	535470	6844892	28-Aug-16	137.3	WHI16000273	0.013	13
AA071710	soil	2016	UTM83-9	535512	6844940	28-Aug-16	160.6	WHI16000273	0.0237	23.7
AA071711	soil	2016	UTM83-9	535544	6844966	28-Aug-16	609.8	WHI16000273	0.0376	37.6
AA071712	soil	2016	UTM83-9	535570	6845011	28-Aug-16	471.4	WHI16000273	0.0209	20.9
AA071713	soil	2016	UTM83-9	535599	6845047	28-Aug-16	151.9	WHI16000273	0.0364	36.4
AA071714	soil	2016	UTM83-9	535629	6845094	28-Aug-16	189.8	WHI16000273	0.0289	28.9
AA071715	soil	2016	UTM83-9	535660	6845132	28-Aug-16	523.6	WHI16000273	0.0177	17.7
AA071716	soil	2016	UTM83-9	535693	6845172	28-Aug-16	616.1	WHI16000273	0.0372	37.2
AA071717	soil	2016	UTM83-9	535715	6845212	28-Aug-16	174.9	WHI16000273	0.0061	6.1
AA071718	soil	2016	UTM83-9	535747	6845252	28-Aug-16	175.1	WHI16000273	0.0078	7.8
AA071719	soil	2016	UTM83-9	535775	6845285	28-Aug-16	262.7	WHI16000273	0.0105	10.5
AA071720	soil	2016	UTM83-9	535805	6845334	28-Aug-16	356.3	WHI16000273	0.0086	8.6
AA071721	soil	2016	UTM83-9	536174	6845487	29-Aug-16	75.3	WHI16000274	0.0054	5.4
AA071722	soil	2016	UTM83-9	536207	6845533	29-Aug-16	107.9	WHI16000274	0.0061	6.1
AA071723	soil	2016	UTM83-9	536244	6845566	29-Aug-16	169.1	WHI16000274	0.0144	14.4
AA071724	soil	2016	UTM83-9	536273	6845605	29-Aug-16	94.2	WHI16000274	0.0082	8.2
AA071725	soil	2016	UTM83-9	536302	6845642	29-Aug-16	110.1	WHI16000274	0.0075	7.5
AA071726	soil	2016	UTM83-9	535285	6844962	27-Aug-16	127.5	WHI16000274	0.0329	32.9
AA071727	soil	2016	UTM83-9	535320	6845008	27-Aug-16	140.5	WHI16000274	0.0145	14.5
AA071728	soil	2016	UTM83-9	535352	6845049	27-Aug-16	133.3	WHI16000274	0.0304	30.4
AA071729	soil	2016	UTM83-9	535378	6845082	27-Aug-16	774.4	WHI16000274	0.0402	40.2
AA071730	soil	2016	UTM83-9	535416	6845124	27-Aug-16	409	WHI16000274	0.01	10
AA071731	soil	2016	UTM83-9	535435	6845176	27-Aug-16	293.3	WHI16000273	0.0139	13.9
AA071732	soil	2016	UTM83-9	535472	6845212	27-Aug-16	188.2	WHI16000273	0.0386	38.6
AA071733	soil	2016	UTM83-9	535502	6845248	27-Aug-16	157.1	WHI16000273	0.0126	12.6
AA071734	soil	2016	UTM83-9	535529	6845290	27-Aug-16	151	WHI16000273	0.0154	15.4
AA071735	soil	2016	UTM83-9	535560	6845328	27-Aug-16	173	WHI16000273	0.0102	10.2
AA071736	soil	2016	UTM83-9	535597	6845372	27-Aug-16	101.4	WHI16000273	0.0086	8.6
AA071737	soil	2016	UTM83-9	535615	6845415	27-Aug-16	385.7	WHI16000273	0.0146	14.6
AA071738	soil	2016	UTM83-9	535645	6845447	27-Aug-16	855.4	WHI16000273	0.0313	31.3
AA071739	soil	2016	UTM83-9	535680	6845482	27-Aug-16	192.7	WHI16000273	0.0078	7.8
AA071740	soil	2016	UTM83-9	535886	6845279	27-Aug-16	279.8	WHI16000273	0.0115	11.5
AA071741	soil	2016	UTM83-9	535925	6845313	27-Aug-16	140.6	WHI16000273	0.003	3
AA071742	soil	2016	UTM83-9	535947	6845349	27-Aug-16	225.6	WHI16000273	0.0059	5.9
AA071743	soil	2016	UTM83-9	535983	6845384	27-Aug-16	189.6	WHI16000273	0.0136	13.6
AA071744	soil	2016	UTM83-9	536012	6845427	27-Aug-16	90.9	WHI16000273	0.0036	3.6
AA071745	soil	2016	UTM83-9	535865	6845227	28-Aug-16	313.3	WHI16000273	0.014	14
AA071746	soil	2016	UTM83-9	535832	6845196	28-Aug-16	319.6	WHI16000273	0.0105	10.5
AA071747	soil	2016	UTM83-9	535808	6845136	28-Aug-16	253.3	WHI16000273	0.0065	6.5

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA071748	soil	2016	UTM83-9	535771	6845104	28-Aug-16	147.6	WHI16000273	0.0227	22.7
AA071749	soil	2016	UTM83-9	535741	6845068	28-Aug-16	117.7	WHI16000273	0.0093	9.3
AA071750	soil	2016	UTM83-9	535711	6845030	28-Aug-16	255.5	WHI16000273	0.02	20
AA071751	soil	2016	UTM83-9	536337	6845688	29-Aug-16	133.5	WHI16000272	0.0135	13.5
AA071752	soil	2016	UTM83-9	536361	6845724	29-Aug-16	77.7	WHI16000272	0.007	7
AA071753	soil	2016	UTM83-9	536390	6845764	29-Aug-16	105.5	WHI16000272	0.0088	8.8
AA071754	soil	2016	UTM83-9	536420	6845811	29-Aug-16	121	WHI16000272	0.0101	10.1
AA071755	soil	2016	UTM83-9	536503	6845750	29-Aug-16	98.3	WHI16000272	0.0103	10.3
AA071756	soil	2016	UTM83-9	536469	6845706	29-Aug-16	111.1	WHI16000272	0.0091	9.1
AA071757	soil	2016	UTM83-9	536443	6845667	29-Aug-16	181.3	WHI16000272	0.0083	8.3
AA071758	soil	2016	UTM83-9	536408	6845636	29-Aug-16	162.7	WHI16000272	0.0114	11.4
AA071759	soil	2016	UTM83-9	536380	6845589	29-Aug-16	130.8	WHI16000272	0.0209	20.9
AA071760	soil	2016	UTM83-9	536350	6845550	29-Aug-16	117	WHI16000272	0.0102	10.2
AA071761	soil	2016	UTM83-9	536318	6845506	29-Aug-16	124.7	WHI16000274	0.0149	14.9
AA071762	soil	2016	UTM83-9	536289	6845469	29-Aug-16	133	WHI16000274	0.0091	9.1
AA071763	soil	2016	UTM83-9	536289	6845469	29-Aug-16	123.9	WHI16000274	0.0064	6.4
AA071764	soil	2016	UTM83-9	536254	6845423	29-Aug-16	163.4	WHI16000274	0.0324	32.4
AA071765	soil	2016	UTM83-9	530890	6844530	30-Aug-16	38.6	WHI16000274	0.0008	0.8
AA071766	soil	2016	UTM83-9	530858	6844491	30-Aug-16	12.1	WHI16000274	0.0016	1.6
AA071767	soil	2016	UTM83-9	530823	6844452	30-Aug-16	36.9	WHI16000274	0.0021	2.1
AA071768	soil	2016	UTM83-9	530790	6844418	30-Aug-16	21	WHI16000274	0.0034	3.4
AA071769	soil	2016	UTM83-9	530761	6844369	30-Aug-16	26.6	WHI16000274	0.0009	0.9
AA071770	soil	2016	UTM83-9	530731	6844333	30-Aug-16	11	WHI16000274	0.0022	2.2
AA071771	soil	2016	UTM83-9	530655	6844389	30-Aug-16	53.3	WHI16000272	0.0325	32.5
AA071772	soil	2016	UTM83-9	530621	6844354	30-Aug-16	35.8	WHI16000272	0.0006	0.6
AA071773	soil	2016	UTM83-9	530587	6844312	30-Aug-16	21.8	WHI16000272	0.0054	5.4
AA071774	soil	2016	UTM83-9	530559	6844272	30-Aug-16	10.5	WHI16000272	0.0002	0.2
AA071775	soil	2016	UTM83-9	530532	6844223	30-Aug-16	14.5	WHI16000272	0.0036	3.6
AA071776	soil	2016	UTM83-9	530501	6844192	30-Aug-16	17.3	WHI16000272	0.0007	0.7
AA071777	soil	2016	UTM83-9	530467	6844150	30-Aug-16	16.6	WHI16000272	0.0009	0.9
AA071778	soil	2016	UTM83-9	530432	6844110	30-Aug-16	19.1	WHI16000272	0.0006	0.6
AA071779	soil	2016	UTM83-9	530410	6844079	30-Aug-16	15.4	WHI16000272	0.0001	0.1
AA071780	soil	2016	UTM83-9	530380	6844026	30-Aug-16	25.8	WHI16000272	0.0024	2.4
AA071781	soil	2016	UTM83-9	530341	6843981	30-Aug-16	15.3	WHI16000272	0.0054	5.4
AA071782	soil	2016	UTM83-9	530307	6843947	30-Aug-16	15.9	WHI16000272	0.0009	0.9
AA071783	soil	2016	UTM83-9	530129	6844033	30-Aug-16	24.7	WHI16000272	0.0002	0.2
AA071784	soil	2016	UTM83-9	530155	6844083	30-Aug-16	16	WHI16000272	0.0003	0.3
AA071785	soil	2016	UTM83-9	530193	6844124	30-Aug-16	20.2	WHI16000272	0.0003	0.3
AA071786	soil	2016	UTM83-9	530222	6844172	30-Aug-16	22.9	WHI16000272	0.0015	1.5
AA071787	soil	2016	UTM83-9	530246	6844211	30-Aug-16	19.9	WHI16000272	0.001	1
AA071788	soil	2016	UTM83-9	530279	6844242	30-Aug-16	16.7	WHI16000272	0.0005	0.5
AA071789	soil	2016	UTM83-9	530308	6844279	30-Aug-16	19	WHI16000272	0.0008	0.8
AA071790	soil	2016	UTM83-9	530341	6844310	30-Aug-16	29.4	WHI16000272	0.0029	2.9
AA071791	soil	2016	UTM83-9	530376	6844362	30-Aug-16	51.8	WHI16000272	0.0014	1.4
AA071792	soil	2016	UTM83-9	530410	6844385	30-Aug-16	13.1	WHI16000272	0.0004	0.4
AA071793	soil	2016	UTM83-9	530431	6844430	30-Aug-16	9.4	WHI16000272	0.0001	0.1
AA071794	soil	2016	UTM83-9	530470	6844472	30-Aug-16	18.3	WHI16000272	0.0017	1.7
AA071795	soil	2016	UTM83-9	530495	6844515	30-Aug-16	11.2	WHI16000272	0.0006	0.6
AA071796	soil	2016	UTM83-9	530528	6844557	30-Aug-16	10.7	WHI16000272	0.0004	0.4
AA071797	soil	2016	UTM83-9	530550	6844597	30-Aug-16	18.9	WHI16000272	0.0011	1.1
AA071798	soil	2016	UTM83-9	530599	6844637	30-Aug-16	15.6	WHI16000272	0.0033	3.3
AA071799	soil	2016	UTM83-9	530621	6844664	30-Aug-16	16.3	WHI16000272	0.0005	0.5
AA071800	soil	2016	UTM83-9	530653	6844703	30-Aug-16	51.6	WHI16000272	0.0019	1.9
AA071801	soil	2016	UTM83-9	531676	6844543	03-Sep-16	24.3	WHI16000274	0.0018	1.8
AA071802	soil	2016	UTM83-9	531693	6844591	03-Sep-16	10.2	WHI16000274	0.0035	3.5
AA071803	soil	2016	UTM83-9	531725	6844634	03-Sep-16	42.9	WHI16000274	0.0057	5.7
AA071804	soil	2016	UTM83-9	531758	6844670	03-Sep-16	31.8	WHI16000274	0.0024	2.4
AA071805	soil	2016	UTM83-9	531780	6844706	03-Sep-16	7.5	WHI16000274	0.0014	1.4
AA071806	soil	2016	UTM83-9	531821	6844750	03-Sep-16	13.6	WHI16000274	0.0027	2.7
AA071807	soil	2016	UTM83-9	531852	6844787	03-Sep-16	8.8	WHI16000274	0.0021	2.1
AA071808	soil	2016	UTM83-9	531881	6844828	03-Sep-16	31.3	WHI16000274	0.003	3

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA071809	soil	2016	UTM83-9	531964	6844770	03-Sep-16	13.1	WHI16000274	0.0047	4.7
AA071810	soil	2016	UTM83-9	531924	6844726	03-Sep-16	39	WHI16000274	0.0029	2.9
AA071811	soil	2016	UTM83-9	531896	6844683	03-Sep-16	9.2	WHI16000275	0.0006	0.6
AA071812	soil	2016	UTM83-9	531860	6844643	03-Sep-16	17.1	WHI16000275	0.0004	0.4
AA071813	soil	2016	UTM83-9	531828	6844614	03-Sep-16	13.8	WHI16000275	0.0002	0.2
AA071815	soil	2016	UTM83-9	531800	6844573	03-Sep-16	12.8	WHI16000275	0.0013	1.3
AA071816	soil	2016	UTM83-9	531765	6844528	03-Sep-16	28.8	WHI16000275	0.0018	1.8
AA071817	soil	2016	UTM83-9	531732	6844493	03-Sep-16	26.8	WHI16000275	0.0061	6.1
AA071818	soil	2016	UTM83-9	531711	6844437	03-Sep-16	6.5	WHI16000275	0.0001	0.1
AA071819	soil	2016	UTM83-9	531690	6844411	03-Sep-16	7.6	WHI16000275	0.0001	0.1
AA071820	soil	2016	UTM83-9	531651	6844384	03-Sep-16	0.7	WHI16000275	0.0001	0.1
AA071821	soil	2016	UTM83-9	531618	6844334	03-Sep-16	94.2	WHI16000274	0.003	3
AA071822	soil	2016	UTM83-9	531582	6844295	03-Sep-16	59.6	WHI16000274	0.0042	4.2
AA071823	soil	2016	UTM83-9	531582	6844295	03-Sep-16	59.5	WHI16000274	0.0182	18.2
AA071824	soil	2016	UTM83-9	531558	6844266	03-Sep-16	23	WHI16000274	0.0008	0.8
AA071825	soil	2016	UTM83-9	531528	6844220	03-Sep-16	44.6	WHI16000274	0.0024	2.4
AA071826	soil	2016	UTM83-9	530819	6843627	31-Aug-16	35	WHI16000274	0.0029	2.9
AA071827	soil	2016	UTM83-9	530787	6843589	31-Aug-16	9.2	WHI16000274	0.0001	0.1
AA071828	soil	2016	UTM83-9	530757	6843551	31-Aug-16	7	WHI16000274	0.0001	0.1
AA071829	soil	2016	UTM83-9	530520	6843733	31-Aug-16	15.8	WHI16000274	0.0001	0.1
AA071830	soil	2016	UTM83-9	530551	6843775	31-Aug-16	26.7	WHI16000274	0.002	2
AA071831	soil	2016	UTM83-9	530582	6843813	31-Aug-16	31.7	WHI16000273	0.0041	4.1
AA071832	soil	2016	UTM83-9	530611	6843852	31-Aug-16	33.5	WHI16000273	0.0038	3.8
AA071833	soil	2016	UTM83-9	530645	6843892	31-Aug-16	14.1	WHI16000273	0.0019	1.9
AA071834	soil	2016	UTM83-9	530673	6843933	31-Aug-16	11.4	WHI16000273	0.0005	0.5
AA071835	soil	2016	UTM83-9	530706	6843969	31-Aug-16	63.3	WHI16000273	0.0014	1.4
AA071836	soil	2016	UTM83-9	530737	6844008	31-Aug-16	38.9	WHI16000273	0.0005	0.5
AA071837	soil	2016	UTM83-9	530767	6844051	31-Aug-16	17.7	WHI16000273	0.0004	0.4
AA071838	soil	2016	UTM83-9	530795	6844090	31-Aug-16	39.2	WHI16000273	0.0028	2.8
AA071839	soil	2016	UTM83-9	530827	6844129	31-Aug-16	64.4	WHI16000273	0.003	3
AA071840	soil	2016	UTM83-9	530857	6844168	31-Aug-16	10.2	WHI16000273	0.0001	0.1
AA071841	soil	2016	UTM83-9	530890	6844207	31-Aug-16	19.8	WHI16000273	0.0031	3.1
AA071842	soil	2016	UTM83-9	530920	6844246	31-Aug-16	20.7	WHI16000273	0.0034	3.4
AA071843	soil	2016	UTM83-9	530952	6844286	31-Aug-16	19.2	WHI16000273	0.0021	2.1
AA071844	soil	2016	UTM83-9	530981	6844325	31-Aug-16	13.3	WHI16000273	0.002	2
AA071845	soil	2016	UTM83-9	531012	6844365	31-Aug-16	15.5	WHI16000273	0.0025	2.5
AA071846	soil	2016	UTM83-9	530758	6844688	01-Sep-16	0.7	WHI16000273	0.0001	0.1
AA071847	soil	2016	UTM83-9	530789	6844730	01-Sep-16	10.1	WHI16000273	0.0015	1.5
AA071848	soil	2016	UTM83-9	530818	6844766	01-Sep-16	23.8	WHI16000273	0.0092	9.2
AA071849	soil	2016	UTM83-9	530850	6844808	01-Sep-16	13.2	WHI16000273	0.0016	1.6
AA071850	soil	2016	UTM83-9	530879	6844847	01-Sep-16	10.1	WHI16000274	0.0016	1.6
AA071851	soil	2016	UTM83-9	536104	6845042	26-Aug-16	43.8	WHI16000273	0.005	5
AA071852	soil	2016	UTM83-9	536072	6845008	26-Aug-16	47.8	WHI16000273	0.011	11
AA071853	soil	2016	UTM83-9	536031	6844976	26-Aug-16	73.3	WHI16000273	0.0048	4.8
AA071854	soil	2016	UTM83-9	536008	6844921	26-Aug-16	172.3	WHI16000273	0.0227	22.7
AA071855	soil	2016	UTM83-9	535980	6844886	26-Aug-16	282.1	WHI16000273	0.0073	7.3
AA071856	soil	2016	UTM83-9	535949	6844849	26-Aug-16	90.2	WHI16000273	0.0042	4.2
AA071857	soil	2016	UTM83-9	535923	6844811	26-Aug-16	394.4	WHI16000273	0.0057	5.7
AA071858	soil	2016	UTM83-9	535896	6844750	26-Aug-16	197.4	WHI16000273	0.0055	5.5
AA071859	soil	2016	UTM83-9	535861	6844731	26-Aug-16	460.9	WHI16000273	0.0166	16.6
AA071860	soil	2016	UTM83-9	535829	6844687	26-Aug-16	78.6	WHI16000273	0.0021	2.1
AA071861	soil	2016	UTM83-9	535806	6844652	26-Aug-16	79.4	WHI16000273	0.0032	3.2
AA071862	soil	2016	UTM83-9	535768	6844611	26-Aug-16	50.4	WHI16000273	0.0045	4.5
AA071863	soil	2016	UTM83-9	535520	6845610	27-Aug-16	569.3	WHI16000273	0.0626	62.6
AA071864	soil	2016	UTM83-9	535491	6845571	27-Aug-16	344.9	WHI16000273	0.0311	31.1
AA071865	soil	2016	UTM83-9	535462	6845529	27-Aug-16	181.1	WHI16000273	0.0374	37.4
AA071866	soil	2016	UTM83-9	535429	6845489	27-Aug-16	160.5	WHI16000273	0.0461	46.1
AA071867	soil	2016	UTM83-9	535429	6845489	27-Aug-16	209.3	WHI16000273	0.0178	17.8
AA071868	soil	2016	UTM83-9	535371	6845409	27-Aug-16	208.9	WHI16000273	0.41	410
AA071869	soil	2016	UTM83-9	535341	6845371	27-Aug-16	328.1	WHI16000273	0.0064	6.4
AA071870	soil	2016	UTM83-9	535312	6845330	27-Aug-16	98.3	WHI16000273	0.0017	1.7

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AA071871	soil	2016	UTM83-9	535279	6845290	27-Aug-16	87.3	WHI16000273	0.0165	16.5
AA071872	soil	2016	UTM83-9	535249	6845251	27-Aug-16	54.7	WHI16000273	0.0015	1.5
AA071873	soil	2016	UTM83-9	535220	6845210	27-Aug-16	68.8	WHI16000273	0.0021	2.1
AA071874	soil	2016	UTM83-9	535190	6845170	27-Aug-16	47.7	WHI16000273	0.0023	2.3
AA071875	soil	2016	UTM83-9	535161	6845130	27-Aug-16	87.3	WHI16000273	0.0049	4.9
AA071876	soil	2016	UTM83-9	535130	6845090	27-Aug-16	72.4	WHI16000273	0.0093	9.3
AA071877	soil	2016	UTM83-9	535712	6845531	27-Aug-16	144.1	WHI16000273	0.0073	7.3
AA071878	soil	2016	UTM83-9	535741	6845569	27-Aug-16	295.8	WHI16000273	0.0189	18.9
AA071879	soil	2016	UTM83-9	535771	6845610	27-Aug-16	847.1	WHI16000273	0.1072	107.2
AA071880	soil	2016	UTM83-9	535799	6845650	27-Aug-16	420.7	WHI16000273	0.0976	97.6
AA071881	soil	2016	UTM83-9	535829	6845689	27-Aug-16	352.2	WHI16000273	0.0157	15.7
AA071882	soil	2016	UTM83-9	535862	6845729	27-Aug-16	107	WHI16000273	0.0062	6.2
AA071883	soil	2016	UTM83-9	535892	6845768	28-Aug-16	206.2	WHI16000273	0.0172	17.2
AA071884	soil	2016	UTM83-9	535922	6845809	28-Aug-16	221.1	WHI16000273	0.0183	18.3
AA071885	soil	2016	UTM83-9	535950	6845849	28-Aug-16	45.2	WHI16000273	0.0098	9.8
AA071886	soil	2016	UTM83-9	535981	6845890	28-Aug-16	39.1	WHI16000273	0.0077	7.7
AA071887	soil	2016	UTM83-9	536013	6845931	28-Aug-16	17.9	WHI16000273	0.0015	1.5
AA071888	soil	2016	UTM83-9	536041	6845970	28-Aug-16	37.8	WHI16000273	0.0044	4.4
AA071889	soil	2016	UTM83-9	536071	6846010	28-Aug-16	35.8	WHI16000273	0.0061	6.1
AA071890	soil	2016	UTM83-9	536101	6846048	28-Aug-16	20.5	WHI16000273	0.0039	3.9
AA071891	soil	2016	UTM83-9	536263	6845930	28-Aug-16	57.7	WHI16000273	0.0072	7.2
AA071892	soil	2016	UTM83-9	536232	6845889	28-Aug-16	79.7	WHI16000273	0.0083	8.3
AA071893	soil	2016	UTM83-9	536199	6845850	28-Aug-16	196	WHI16000273	0.0123	12.3
AA071894	soil	2016	UTM83-9	536171	6845809	28-Aug-16	77.5	WHI16000273	0.0075	7.5
AA071895	soil	2016	UTM83-9	536140	6845769	28-Aug-16	60.1	WHI16000273	0.0065	6.5
AA071896	soil	2016	UTM83-9	536111	6845729	28-Aug-16	193	WHI16000273	0.0166	16.6
AA071897	soil	2016	UTM83-9	536081	6845689	28-Aug-16	106.5	WHI16000273	0.0107	10.7
AA071898	soil	2016	UTM83-9	536049	6845649	28-Aug-16	197.1	WHI16000273	0.0428	42.8
AA071899	soil	2016	UTM83-9	536021	6845611	28-Aug-16	92.7	WHI16000273	0.0072	7.2
AA071900	soil	2016	UTM83-9	535991	6845570	28-Aug-16	89.2	WHI16000273	0.0088	8.8
AA071901	soil	2016	UTM83-9	530779	6843911	31-Aug-16	23.2	WHI16000272	0.0031	3.1
AA071902	soil	2016	UTM83-9	530747	6843877	31-Aug-16	35.3	WHI16000272	0.0021	2.1
AA071903	soil	2016	UTM83-9	530720	6843834	31-Aug-16	26.8	WHI16000272	0.0085	8.5
AA071904	soil	2016	UTM83-9	530690	6843794	31-Aug-16	37.6	WHI16000272	0.0037	3.7
AA071905	soil	2016	UTM83-9	530668	6843752	31-Aug-16	32.5	WHI16000272	0.0102	10.2
AA071906	soil	2016	UTM83-9	530630	6843713	31-Aug-16	13.8	WHI16000272	0.0008	0.8
AA071907	soil	2016	UTM83-9	530610	6843672	31-Aug-16	12.6	WHI16000272	0.0008	0.8
AA071908	soil	2016	UTM83-9	530838	6843488	31-Aug-16	10.2	WHI16000272	0.0006	0.6
AA071909	soil	2016	UTM83-9	530868	6843530	31-Aug-16	13.4	WHI16000272	0.0009	0.9
AA071910	soil	2016	UTM83-9	530898	6843565	31-Aug-16	30.2	WHI16000272	0.0017	1.7
AA071911	soil	2016	UTM83-9	530925	6843609	31-Aug-16	32.9	WHI16000272	0.0066	6.6
AA071912	soil	2016	UTM83-9	530948	6843645	31-Aug-16	31.7	WHI16000272	0.0044	4.4
AA071913	soil	2016	UTM83-9	530980	6843681	31-Aug-16	13.5	WHI16000272	0.0013	1.3
AA071914	soil	2016	UTM83-9	531026	6843718	31-Aug-16	14.3	WHI16000272	0.0013	1.3
AA071915	soil	2016	UTM83-9	531047	6843756	31-Aug-16	13.4	WHI16000272	0.0007	0.7
AA071916	soil	2016	UTM83-9	531077	6843793	31-Aug-16	14.1	WHI16000272	0.0006	0.6
AA071917	soil	2016	UTM83-9	531110	6843854	31-Aug-16	35.5	WHI16000272	0.0019	1.9
AA071918	soil	2016	UTM83-9	531139	6843880	31-Aug-16	24	WHI16000272	0.0006	0.6
AA071919	soil	2016	UTM83-9	531172	6843914	31-Aug-16	15.8	WHI16000272	0.0002	0.2
AA071920	soil	2016	UTM83-9	531207	6843962	31-Aug-16	54.8	WHI16000272	0.0002	0.2
AA071921	soil	2016	UTM83-9	531235	6843998	31-Aug-16	16	WHI16000274	0.0033	3.3
AA071922	soil	2016	UTM83-9	531257	6844032	31-Aug-16	41.3	WHI16000274	0.0272	27.2
AA071923	soil	2016	UTM83-9	531295	6844082	31-Aug-16	20.2	WHI16000274	0.0032	3.2
AA071924	soil	2016	UTM83-9	531331	6844122	31-Aug-16	19.8	WHI16000274	0.0032	3.2
AA071925	soil	2016	UTM83-9	531332	6844127	31-Aug-16	19.4	WHI16000274	0.0019	1.9
AA071926	soil	2016	UTM83-9	530818	6843960	31-Aug-16	12.8	WHI16000274	0.0024	2.4
AA071927	soil	2016	UTM83-9	530843	6843982	31-Aug-16	34.6	WHI16000274	0.0019	1.9
AA071928	soil	2016	UTM83-9	530866	6844029	31-Aug-16	24.4	WHI16000274	0.0008	0.8
AA071929	soil	2016	UTM83-9	530906	6844067	31-Aug-16	13.4	WHI16000274	0.0019	1.9
AA071930	soil	2016	UTM83-9	530943	6844109	31-Aug-16	37	WHI16000274	0.0024	2.4
AA071931	soil	2016	UTM83-9	530968	6844147	31-Aug-16	28.1	WHI16000274	0.0042	4.2

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA071932	soil	2016	UTM83-9	530999	6844192	31-Aug-16	25.6	WHI16000274	0.0009	0.9
AA071933	soil	2016	UTM83-9	531025	6844231	31-Aug-16	16.9	WHI16000274	0.0009	0.9
AA071934	soil	2016	UTM83-9	531064	6844262	31-Aug-16	18.8	WHI16000274	0.0036	3.6
AA071935	soil	2016	UTM83-9	531095	6844308	31-Aug-16	30.6	WHI16000274	0.0031	3.1
AA071936	soil	2016	UTM83-9	530836	6844632	01-Sep-16	14.1	WHI16000274	0.0011	1.1
AA071937	soil	2016	UTM83-9	530864	6844672	01-Sep-16	19.8	WHI16000274	0.0034	3.4
AA071938	soil	2016	UTM83-9	530900	6844694	01-Sep-16	44.8	WHI16000274	0.0014	1.4
AA071939	soil	2016	UTM83-9	530927	6844742	01-Sep-16	15.3	WHI16000274	0.002	2
AA071940	soil	2016	UTM83-9	530965	6844782	01-Sep-16	15.6	WHI16000274	0.0013	1.3
AA071941	soil	2016	UTM83-9	530993	6844812	01-Sep-16	84.1	WHI16000274	0.0123	12.3
AA071942	soil	2016	UTM83-9	531020	6844866	01-Sep-16	32.1	WHI16000274	0.0019	1.9
AA071943	soil	2016	UTM83-9	531060	6844900	01-Sep-16	45.3	WHI16000274	0.0049	4.9
AA071944	soil	2016	UTM83-9	531086	6844950	01-Sep-16	33.1	WHI16000274	0.0022	2.2
AA071945	soil	2016	UTM83-9	531120	6844984	01-Sep-16	30.3	WHI16000274	0.0052	5.2
AA071946	soil	2016	UTM83-9	531143	6845030	01-Sep-16	34.9	WHI16000274	0.004	4
AA071947	soil	2016	UTM83-9	531166	6845060	01-Sep-16	35.2	WHI16000274	0.006	6
AA071948	soil	2016	UTM83-9	531212	6845098	01-Sep-16	42.6	WHI16000274	0.0059	5.9
AA071949	soil	2016	UTM83-9	531241	6845137	01-Sep-16	41.3	WHI16000274	0.0058	5.8
AA071950	soil	2016	UTM83-9	531274	6845179	01-Sep-16	58	WHI16000274	0.0071	7.1
AA071951	soil	2016	UTM83-9	530832	6843809	31-Aug-16	29.9	WHI16000273	0.0056	5.6
AA071952	soil	2016	UTM83-9	530804	6843772	31-Aug-16	30.4	WHI16000273	0.0008	0.8
AA071953	soil	2016	UTM83-9	530771	6843745	31-Aug-16	8.4	WHI16000273	0.0024	2.4
AA071954	soil	2016	UTM83-9	530741	6843686	31-Aug-16	9.8	WHI16000273	0.0001	0.1
AA071955	soil	2016	UTM83-9	530712	6843654	31-Aug-16	10	WHI16000273	0.0053	5.3
AA071956	soil	2016	UTM83-9	530667	6843607	31-Aug-16	7.4	WHI16000273	0.0001	0.1
AA071957	soil	2016	UTM83-9	530434	6843794	31-Aug-16	7.2	WHI16000273	0.0001	0.1
AA071958	soil	2016	UTM83-9	530474	6843839	31-Aug-16	7.5	WHI16000273	0.0001	0.1
AA071959	soil	2016	UTM83-9	530496	6843878	31-Aug-16	10.4	WHI16000273	0.0001	0.1
AA071960	soil	2016	UTM83-9	530533	6843906	31-Aug-16	10	WHI16000273	0.0001	0.1
AA071961	soil	2016	UTM83-9	530559	6843960	31-Aug-16	13.3	WHI16000273	0.0009	0.9
AA071962	soil	2016	UTM83-9	530584	6843992	31-Aug-16	8	WHI16000273	0.0003	0.3
AA071963	soil	2016	UTM83-9	530628	6844036	31-Aug-16	36.3	WHI16000273	0.0014	1.4
AA071964	soil	2016	UTM83-9	530653	6844072	31-Aug-16	13.6	WHI16000273	0.0012	1.2
AA071965	soil	2016	UTM83-9	530659	6844127	31-Aug-16	13	WHI16000273	0.0004	0.4
AA071966	soil	2016	UTM83-9	530721	6844148	31-Aug-16	9.4	WHI16000273	0.0008	0.8
AA071967	soil	2016	UTM83-9	530749	6844191	31-Aug-16	21.9	WHI16000273	0.0004	0.4
AA071968	soil	2016	UTM83-9	530782	6844229	31-Aug-16	15.7	WHI16000273	0.0012	1.2
AA071969	soil	2016	UTM83-9	530814	6844268	31-Aug-16	27.8	WHI16000273	0.0029	2.9
AA071970	soil	2016	UTM83-9	530841	6844309	31-Aug-16	17.7	WHI16000273	0.0093	9.3
AA071971	soil	2016	UTM83-9	530871	6844350	31-Aug-16	18.6	WHI16000274	0.0017	1.7
AA071972	soil	2016	UTM83-9	530906	6844386	31-Aug-16	8.9	WHI16000274	0.002	2
AA071973	soil	2016	UTM83-9	530927	6844422	31-Aug-16	43.4	WHI16000274	0.0015	1.5
AA071974	soil	2016	UTM83-9	530678	6844771	01-Sep-16	3.9	WHI16000274	0.0004	0.4
AA071975	soil	2016	UTM83-9	530708	6844793	01-Sep-16	6.5	WHI16000274	0.0169	16.9
AA071976	soil	2016	UTM83-9	531301	6845216	01-Sep-16	66.9	WHI16000274	0.0083	8.3
AA071977	soil	2016	UTM83-9	531327	6845268	01-Sep-16	51.7	WHI16000274	0.0061	6.1
AA071978	soil	2016	UTM83-9	531556	6845085	01-Sep-16	51.5	WHI16000274	0.0069	6.9
AA071979	soil	2016	UTM83-9	531537	6845033	01-Sep-16	46.2	WHI16000274	0.0051	5.1
AA071980	soil	2016	UTM83-9	531509	6845001	01-Sep-16	49.7	WHI16000274	0.0056	5.6
AA071981	soil	2016	UTM83-9	531472	6844963	01-Sep-16	43.3	WHI16000274	0.0041	4.1
AA071982	soil	2016	UTM83-9	531445	6844907	01-Sep-16	42.5	WHI16000274	0.0048	4.8
AA071983	soil	2016	UTM83-9	531408	6844880	01-Sep-16	44.1	WHI16000274	0.0049	4.9
AA071984	soil	2016	UTM83-9	531386	6844851	01-Sep-16	34	WHI16000274	0.0042	4.2
AA071985	soil	2016	UTM83-9	531344	6844806	01-Sep-16	37.7	WHI16000274	0.0038	3.8
AA071986	soil	2016	UTM83-9	531314	6844765	01-Sep-16	21.2	WHI16000274	0.0021	2.1
AA071987	soil	2016	UTM83-9	531289	6844720	01-Sep-16	27.2	WHI16000274	0.0033	3.3
AA071988	soil	2016	UTM83-9	531291	6844724	01-Sep-16	26.1	WHI16000274	0.0033	3.3
AA071989	soil	2016	UTM83-9	530966	6844460	01-Sep-16	18.2	WHI16000274	0.0004	0.4
AA071990	soil	2016	UTM83-9	531047	6844400	02-Sep-16	13.8	WHI16000274	0.0012	1.2
AA071991	soil	2016	UTM83-9	531080	6844440	02-Sep-16	59.8	WHI16000275	0.0001	0.1
AA071992	soil	2016	UTM83-9	531112	6844481	02-Sep-16	28.5	WHI16000275	0.0012	1.2

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA071993	soil	2016	UTM83-9	531131	6844515	02-Sep-16	33.5	WHI16000275	0.0009	0.9
AA071994	soil	2016	UTM83-9	531172	6844558	02-Sep-16	34.6	WHI16000275	0.005	5
AA071995	soil	2016	UTM83-9	531205	6844595	02-Sep-16	39.8	WHI16000275	0.0026	2.6
AA071996	soil	2016	UTM83-9	531240	6844645	02-Sep-16	34.6	WHI16000275	0.1077	107.7
AA071997	soil	2016	UTM83-9	531255	6844677	02-Sep-16	38.3	WHI16000275	0.0033	3.3
AA071998	soil	2016	UTM83-9	531812	6844884	02-Sep-16	43.3	WHI16000275	0.0074	7.4
AA071999	soil	2016	UTM83-9	531777	6844837	02-Sep-16	49.1	WHI16000275	0.0052	5.2
AA072000	soil	2016	UTM83-9	531739	6844812	02-Sep-16	30	WHI16000275	0.0015	1.5
AA072151	soil	2016	UTM83-9	530774	6844548	30-Aug-16	14	WHI16000272	0.002	2
AA072152	soil	2016	UTM83-9	530743	6844511	30-Aug-16	125.4	WHI16000272	0.0004	0.4
AA072153	soil	2016	UTM83-9	530714	6844471	30-Aug-16	42.7	WHI16000272	0.0008	0.8
AA072154	soil	2016	UTM83-9	530683	6844429	30-Aug-16	6.1	WHI16000272	0.0003	0.3
AA072155	soil	2016	UTM83-9	530699	6844290	30-Aug-16	42.2	WHI16000272	0.0034	3.4
AA072156	soil	2016	UTM83-9	530669	6844253	30-Aug-16	20.9	WHI16000272	0.0007	0.7
AA072157	soil	2016	UTM83-9	530639	6844212	30-Aug-16	4.4	WHI16000272	0.0225	22.5
AA072158	soil	2016	UTM83-9	530607	6844173	30-Aug-16	7	WHI16000272	0.0001	0.1
AA072159	soil	2016	UTM83-9	530578	6844131	30-Aug-16	13.4	WHI16000272	0.0006	0.6
AA072160	soil	2016	UTM83-9	530547	6844094	30-Aug-16	16.9	WHI16000273	0.0024	2.4
AA072161	soil	2016	UTM83-9	530517	6844054	30-Aug-16	16.3	WHI16000273	0.0005	0.5
AA072162	soil	2016	UTM83-9	530484	6844014	30-Aug-16	16	WHI16000273	0.0003	0.3
AA072163	soil	2016	UTM83-9	530454	6843975	30-Aug-16	18	WHI16000273	0.0005	0.5
AA072164	soil	2016	UTM83-9	530423	6843934	30-Aug-16	19.5	WHI16000273	0.0005	0.5
AA072165	soil	2016	UTM83-9	530394	6843897	30-Aug-16	12.1	WHI16000273	0.0008	0.8
AA072166	soil	2016	UTM83-9	530372	6843879	30-Aug-16	16.1	WHI16000273	0.0022	2.2
AA072167	soil	2016	UTM83-9	530284	6843918	30-Aug-16	14.8	WHI16000273	0.0028	2.8
AA072168	soil	2016	UTM83-9	530206	6843980	30-Aug-16	32	WHI16000273	0.0008	0.8
AA072169	soil	2016	UTM83-9	530237	6844020	30-Aug-16	16.8	WHI16000273	0.0001	0.1
AA072170	soil	2016	UTM83-9	530265	6844058	30-Aug-16	12.6	WHI16000273	0.0001	0.1
AA072171	soil	2016	UTM83-9	530297	6844098	30-Aug-16	41.3	WHI16000275	0.0009	0.9
AA072172	soil	2016	UTM83-9	530328	6844137	30-Aug-16	13	WHI16000275	0.0007	0.7
AA072173	soil	2016	UTM83-9	530359	6844178	30-Aug-16	23.5	WHI16000275	0.0019	1.9
AA072174	soil	2016	UTM83-9	530388	6844217	30-Aug-16	33.3	WHI16000275	0.0001	0.1
AA072175	soil	2016	UTM83-9	530420	6844253	30-Aug-16	16.4	WHI16000275	0.0016	1.6
AA072176	soil	2016	UTM83-9	531920	6844230	04-Sep-16	15.8	WHI16000275	0.0024	2.4
AA072177	soil	2016	UTM83-9	531889	6844188	04-Sep-16	22.5	WHI16000275	0.0018	1.8
AA072178	soil	2016	UTM83-9	531858	6844150	04-Sep-16	12.5	WHI16000275	0.0006	0.6
AA072179	soil	2016	UTM83-9	531827	6844110	04-Sep-16	3	WHI16000275	0.0004	0.4
AA072180	soil	2016	UTM83-9	531799	6844070	04-Sep-16	2.3	WHI16000275	0.0005	0.5
AA072181	soil	2016	UTM83-9	531764	6844034	04-Sep-16	2.6	WHI16000275	0.0002	0.2
AA072182	soil	2016	UTM83-9	531732	6843993	04-Sep-16	16.8	WHI16000275	0.0006	0.6
AA072183	soil	2016	UTM83-9	531709	6843954	04-Sep-16	19.3	WHI16000275	0.0015	1.5
AA072184	soil	2016	UTM83-9	531672	6843919	04-Sep-16	6.4	WHI16000275	0.001	1
AA072185	soil	2016	UTM83-9	531638	6843878	04-Sep-16	7.3	WHI16000275	0.0009	0.9
AA072186	soil	2016	UTM83-9	531614	6843833	04-Sep-16	15.7	WHI16000275	0.0007	0.7
AA072187	soil	2016	UTM83-9	531582	6843794	04-Sep-16	19.5	WHI16000275	0.0032	3.2
AA072188	soil	2016	UTM83-9	531558	6843759	04-Sep-16	15.3	WHI16000275	0.0016	1.6
AA072189	soil	2016	UTM83-9	531529	6843730	04-Sep-16	15.2	WHI16000275	0.0012	1.2
AA072190	soil	2016	UTM83-9	531491	6843677	04-Sep-16	6.2	WHI16000275	0.0002	0.2
AA072191	soil	2016	UTM83-9	531462	6843633	04-Sep-16	16	WHI16000275	0.0036	3.6
AA072192	soil	2016	UTM83-9	531346	6843654	05-Sep-16	11.6	WHI16000275	0.0006	0.6
AA072193	soil	2016	UTM83-9	531308	6843622	05-Sep-16	12.2	WHI16000275	0.004	4
AA072194	soil	2016	UTM83-9	531283	6843581	05-Sep-16	28.1	WHI16000275	0.0017	1.7
AA072195	soil	2016	UTM83-9	531254	6843535	05-Sep-16	34.8	WHI16000275	0.0013	1.3
AA072196	soil	2016	UTM83-9	531230	6843505	05-Sep-16	9.8	WHI16000275	0.0012	1.2
AA072197	soil	2016	UTM83-9	531197	6843467	05-Sep-16	12.8	WHI16000275	0.0017	1.7
AA072198	soil	2016	UTM83-9	531160	6843421	05-Sep-16	28.2	WHI16000275	0.0019	1.9
AA072199	soil	2016	UTM83-9	531133	6843385	05-Sep-16	22.5	WHI16000275	0.0019	1.9
AA072200	soil	2016	UTM83-9	531110	6843352	05-Sep-16	8	WHI16000275	0.0011	1.1
AA072201	soil	2016	UTM83-9	530999	6844503	05-Sep-16	38.8	WHI16000274	0.0024	2.4
AA072202	soil	2016	UTM83-9	531016	6844543	05-Sep-16	22.2	WHI16000274	0.0016	1.6
AA072203	soil	2016	UTM83-9	531052	6844596	05-Sep-16	14.3	WHI16000274	0.002	2

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA072204	soil	2016	UTM83-9	531081	6844648	05-Sep-16	41.7	WHI16000274	0.0025	2.5
AA072205	soil	2016	UTM83-9	531120	6844658	05-Sep-16	9.6	WHI16000274	0.0006	0.6
AA072206	soil	2016	UTM83-9	531152	6844692	05-Sep-16	66.5	WHI16000274	0.0053	5.3
AA072207	soil	2016	UTM83-9	531188	6844750	05-Sep-16	25.7	WHI16000274	0.0015	1.5
AA072208	soil	2016	UTM83-9	531212	6844790	05-Sep-16	45.4	WHI16000274	0.0023	2.3
AA072209	soil	2016	UTM83-9	531719	6844941	05-Sep-16	35.1	WHI16000274	0.0046	4.6
AA072210	soil	2016	UTM83-9	531690	6844930	05-Sep-16	37.5	WHI16000274	0.0056	5.6
AA072211	soil	2016	UTM83-9	531654	6844866	05-Sep-16	21.4	WHI16000274	0.0031	3.1
AA072212	soil	2016	UTM83-9	531632	6844831	05-Sep-16	44.7	WHI16000274	0.0038	3.8
AA072213	soil	2016	UTM83-9	531600	6844793	05-Sep-16	31.6	WHI16000274	0.0026	2.6
AA072214	soil	2016	UTM83-9	531569	6844754	05-Sep-16	20.7	WHI16000274	0.0008	0.8
AA072215	soil	2016	UTM83-9	531541	6844716	05-Sep-16	28.9	WHI16000274	0.0026	2.6
AA072216	soil	2016	UTM83-9	531505	6844676	05-Sep-16	27.3	WHI16000274	0.0012	1.2
AA072217	soil	2016	UTM83-9	532042	6844709	05-Sep-16	24.9	WHI16000274	0.0058	5.8
AA072218	soil	2016	UTM83-9	532008	6844662	05-Sep-16	18.7	WHI16000274	0.0007	0.7
AA072219	soil	2016	UTM83-9	531980	6844620	05-Sep-16	11.2	WHI16000274	0.0013	1.3
AA072220	soil	2016	UTM83-9	531949	6844592	05-Sep-16	11	WHI16000274	0.0018	1.8
AA072221	soil	2016	UTM83-9	531913	6844548	05-Sep-16	23	WHI16000274	0.0004	0.4
AA072222	soil	2016	UTM83-9	531892	6844512	05-Sep-16	9.3	WHI16000274	0.0001	0.1
AA072223	soil	2016	UTM83-9	531854	6844470	05-Sep-16	23	WHI16000274	0.0019	1.9
AA072224	soil	2016	UTM83-9	531830	6844430	05-Sep-16	27.3	WHI16000274	0.0025	2.5
AA072225	soil	2016	UTM83-9	531786	6844383	05-Sep-16	30.1	WHI16000274	0.0009	0.9
AA072226	soil	2016	UTM83-9	531766	6844349	05-Sep-16	6.9	WHI16000274	0.0005	0.5
AA072227	soil	2016	UTM83-9	531737	6844310	05-Sep-16	8.9	WHI16000274	0.0008	0.8
AA072228	soil	2016	UTM83-9	531698	6844280	05-Sep-16	19.1	WHI16000274	0.0008	0.8
AA072229	soil	2016	UTM83-9	531668	6844227	05-Sep-16	40.4	WHI16000274	0.0022	2.2
AA072230	soil	2016	UTM83-9	531638	6844197	05-Sep-16	44.3	WHI16000274	0.0001	0.1
AA072231	soil	2016	UTM83-9	531616	6844152	05-Sep-16	26.9	WHI16000274	0.0008	0.8
AA072232	soil	2016	UTM83-9	531580	6844110	05-Sep-16	17.1	WHI16000274	0.0018	1.8
AA072233	soil	2016	UTM83-9	531553	6844071	05-Sep-16	15.5	WHI16000274	0.0019	1.9
AA072234	soil	2016	UTM83-9	531522	6844037	05-Sep-16	1.1	WHI16000274	0.0001	0.1
AA072235	soil	2016	UTM83-9	531485	6844001	05-Sep-16	19.3	WHI16000274	0.0059	5.9
AA072236	soil	2016	UTM83-9	531460	6843946	05-Sep-16	18.4	WHI16000274	0.0047	4.7
AA072237	soil	2016	UTM83-9	531419	6843927	05-Sep-16	11.3	WHI16000274	0.0019	1.9
AA072238	soil	2016	UTM83-9	531391	6843881	05-Sep-16	28.5	WHI16000274	0.0029	2.9
AA072239	soil	2016	UTM83-9	531393	6843880	05-Sep-16	20.8	WHI16000274	0.0015	1.5
AA072240	soil	2016	UTM83-9	531360	6843841	05-Sep-16	20.9	WHI16000274	0.0041	4.1
AA072241	soil	2016	UTM83-9	532120	6844648	05-Sep-16	42.6	WHI16000274	0.0178	17.8
AA072242	soil	2016	UTM83-9	532089	6844595	05-Sep-16	29.2	WHI16000274	0.0012	1.2
AA072243	soil	2016	UTM83-9	532053	6844569	05-Sep-16	24.7	WHI16000274	0.0019	1.9
AA072244	soil	2016	UTM83-9	532025	6844535	05-Sep-16	14.5	WHI16000274	0.0009	0.9
AA072245	soil	2016	UTM83-9	531998	6844486	05-Sep-16	15.5	WHI16000274	0.0005	0.5
AA072246	soil	2016	UTM83-9	531961	6844445	05-Sep-16	13.6	WHI16000274	0.0005	0.5
AA072247	soil	2016	UTM83-9	531936	6844413	05-Sep-16	9.1	WHI16000274	0.0015	1.5
AA072248	soil	2016	UTM83-9	531903	6844366	05-Sep-16	27.2	WHI16000274	0.0017	1.7
AA072249	soil	2016	UTM83-9	531876	6844330	05-Sep-16	10.6	WHI16000274	0.0023	2.3
AA072250	soil	2016	UTM83-9	531838	6844295	05-Sep-16	13.7	WHI16000274	0.002	2
AA072251	soil	2016	UTM83-9	530912	6844888	01-Sep-16	22.5	WHI16000274	0.0035	3.5
AA072252	soil	2016	UTM83-9	530941	6844929	01-Sep-16	34.3	WHI16000274	0.0016	1.6
AA072253	soil	2016	UTM83-9	530974	6844965	01-Sep-16	8.8	WHI16000274	0.0014	1.4
AA072254	soil	2016	UTM83-9	531002	6845004	01-Sep-16	53.8	WHI16000274	0.0032	3.2
AA072255	soil	2016	UTM83-9	531035	6845044	01-Sep-16	10.5	WHI16000274	0.0016	1.6
AA072256	soil	2016	UTM83-9	531066	6845084	01-Sep-16	6.4	WHI16000274	0.0012	1.2
AA072257	soil	2016	UTM83-9	531095	6845121	01-Sep-16	38.2	WHI16000274	0.0052	5.2
AA072258	soil	2016	UTM83-9	531095	6845121	01-Sep-16	35.6	WHI16000274	0.013	13
AA072259	soil	2016	UTM83-9	531128	6845163	01-Sep-16	21.1	WHI16000274	0.0011	1.1
AA072260	soil	2016	UTM83-9	531156	6845201	01-Sep-16	38.8	WHI16000274	0.0035	3.5
AA072261	soil	2016	UTM83-9	531189	6845241	01-Sep-16	39	WHI16000274	0.0047	4.7
AA072262	soil	2016	UTM83-9	531219	6845282	01-Sep-16	88	WHI16000274	0.0073	7.3
AA072263	soil	2016	UTM83-9	531250	6845320	01-Sep-16	42.9	WHI16000274	0.0025	2.5
AA072264	soil	2016	UTM83-9	531485	6845135	01-Sep-16	40.5	WHI16000274	0.0039	3.9

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA072265	soil	2016	UTM83-9	531455	6845097	01-Sep-16	64.3	WHI16000274	0.0141	14.1
AA072266	soil	2016	UTM83-9	531424	6845057	01-Sep-16	41	WHI16000274	0.0055	5.5
AA072267	soil	2016	UTM83-9	531395	6845017	01-Sep-16	32.2	WHI16000274	0.0039	3.9
AA072268	soil	2016	UTM83-9	531714	6844777	02-Sep-16	47.6	WHI16000274	0.0003	0.3
AA072269	soil	2016	UTM83-9	531673	6844726	02-Sep-16	28.3	WHI16000274	0.0004	0.4
AA072270	soil	2016	UTM83-9	531643	6844686	02-Sep-16	27.5	WHI16000274	0.0022	2.2
AA072271	soil	2016	UTM83-9	531618	6844666	02-Sep-16	7.4	WHI16000275	0.0013	1.3
AA072272	soil	2016	UTM83-9	531573	6844605	02-Sep-16	39	WHI16000275	0.0036	3.6
AA072273	soil	2016	UTM83-9	531559	6844570	02-Sep-16	4.6	WHI16000275	0.0009	0.9
AA072274	soil	2016	UTM83-9	531523	6844539	02-Sep-16	21.5	WHI16000275	0.0026	2.6
AA072275	soil	2016	UTM83-9	531491	6844509	02-Sep-16	18.9	WHI16000275	0.0023	2.3
AA072276	soil	2016	UTM83-9	531453	6844458	02-Sep-16	24.8	WHI16000275	0.0029	2.9
AA072277	soil	2016	UTM83-9	531429	6844418	02-Sep-16	22.6	WHI16000275	0.0041	4.1
AA072281	soil	2016	UTM83-9	531277	6844547	02-Sep-16	16.5	WHI16000274	0.0033	3.3
AA072282	soil	2016	UTM83-9	531246	6844499	02-Sep-16	18.6	WHI16000274	0.0056	5.6
AA072283	soil	2016	UTM83-9	531213	6844457	02-Sep-16	20.1	WHI16000274	0.0038	3.8
AA072284	soil	2016	UTM83-9	531183	6844422	02-Sep-16	26.4	WHI16000274	0.004	4
AA072285	soil	2016	UTM83-9	531477	6844632	03-Sep-16	11.5	WHI16000274	0.0013	1.3
AA072286	soil	2016	UTM83-9	531444	6844596	03-Sep-16	31.1	WHI16000274	0.0026	2.6
AA072287	soil	2016	UTM83-9	531418	6844563	03-Sep-16	12.4	WHI16000274	0.003	3
AA072288	soil	2016	UTM83-9	531383	6844518	03-Sep-16	22.5	WHI16000274	0.0044	4.4
AA072289	soil	2016	UTM83-9	531356	6844481	03-Sep-16	50.1	WHI16000274	0.0072	7.2
AA072290	soil	2016	UTM83-9	531323	6844435	03-Sep-16	17.7	WHI16000274	0.0017	1.7
AA072291	soil	2016	UTM83-9	531292	6844399	03-Sep-16	11.9	WHI16000274	0.0013	1.3
AA072292	soil	2016	UTM83-9	531264	6844365	03-Sep-16	16	WHI16000274	0.0001	0.1
AA072293	soil	2016	UTM83-9	531229	6844324	03-Sep-16	16.3	WHI16000274	0.0012	1.2
AA072294	soil	2016	UTM83-9	531198	6844284	03-Sep-16	19.3	WHI16000274	0.0022	2.2
AA072295	soil	2016	UTM83-9	531278	6844224	03-Sep-16	18.7	WHI16000274	0.0029	2.9
AA072296	soil	2016	UTM83-9	531311	6844261	03-Sep-16	17.1	WHI16000274	0.0016	1.6
AA072297	soil	2016	UTM83-9	531341	6844299	03-Sep-16	16.7	WHI16000274	0.0012	1.2
AA072298	soil	2016	UTM83-9	531366	6844337	03-Sep-16	16.2	WHI16000274	0.0001	0.1
AA072299	soil	2016	UTM83-9	531398	6844361	03-Sep-16	17.3	WHI16000274	0.0016	1.6
AA072300	soil	2016	UTM83-9	531632	6844514	03-Sep-16	17.6	WHI16000274	0.0012	1.2
AA072301	soil	2016	UTM83-9	531488	6844170	03-Sep-16	22.1	WHI16000275	0.0024	2.4
AA072302	soil	2016	UTM83-9	531459	6844136	03-Sep-16	25.2	WHI16000275	0.0028	2.8
AA072303	soil	2016	UTM83-9	531434	6844105	03-Sep-16	23	WHI16000275	0.0055	5.5
AA072304	soil	2016	UTM83-9	531400	6844069	03-Sep-16	24.1	WHI16000275	0.002	2
AA072305	soil	2016	UTM83-9	531379	6844028	03-Sep-16	19.3	WHI16000275	0.0017	1.7
AA072306	soil	2016	UTM83-9	531505	6843530	05-Sep-16	9.9	WHI16000275	0.0011	1.1
AA072307	soil	2016	UTM83-9	531473	6843498	05-Sep-16	14.1	WHI16000275	0.0014	1.4
AA072308	soil	2016	UTM83-9	531443	6843456	05-Sep-16	9.9	WHI16000275	0.0014	1.4
AA072309	soil	2016	UTM83-9	531413	6843421	05-Sep-16	14.2	WHI16000275	0.0012	1.2
AA072310	soil	2016	UTM83-9	531381	6843380	05-Sep-16	22.5	WHI16000275	0.0045	4.5
AA072311	soil	2016	UTM83-9	531351	6843341	05-Sep-16	12.4	WHI16000275	0.0004	0.4
AA072312	soil	2016	UTM83-9	531323	6843299	05-Sep-16	171.6	WHI16000275	0.0344	34.4
AA072313	soil	2016	UTM83-9	531289	6843257	05-Sep-16	12.7	WHI16000275	0.0029	2.9
AA072314	soil	2016	UTM83-9	531256	6843221	05-Sep-16	21.9	WHI16000275	0.0047	4.7
AA072315	soil	2016	UTM83-9	531229	6843180	05-Sep-16	36.8	WHI16000275	0.0039	3.9
AA072316	soil	2016	UTM83-9	531177	6843602	05-Sep-16	24.2	WHI16000275	0.0017	1.7
AA072317	soil	2016	UTM83-9	531221	6843637	05-Sep-16	20.1	WHI16000275	0.0011	1.1
AA072318	soil	2016	UTM83-9	531221	6843637	05-Sep-16	21.2	WHI16000275	0.0009	0.9
AA072319	soil	2016	UTM83-9	531244	6843682	05-Sep-16	15	WHI16000275	0.0012	1.2
AA072320	soil	2016	UTM83-9	531276	6843722	05-Sep-16	13.8	WHI16000275	0.0014	1.4
AA072321	soil	2016	UTM83-9	531296	6843766	05-Sep-16	22.9	WHI16000275	0.002	2
AA072322	soil	2016	UTM83-9	531324	6843809	05-Sep-16	19.3	WHI16000275	0.0015	1.5
AA072326	soil	2016	UTM83-9	531603	6844474	03-Sep-16	16.3	WHI16000275	0.0002	0.2
AA072327	soil	2016	UTM83-9	531586	6844443	03-Sep-16	25.9	WHI16000275	0.0024	2.4
AA072328	soil	2016	UTM83-9	531547	6844396	03-Sep-16	24	WHI16000275	0.0025	2.5
AA072329	soil	2016	UTM83-9	531512	6844356	03-Sep-16	32.6	WHI16000275	0.0014	1.4
AA072330	soil	2016	UTM83-9	531482	6844318	03-Sep-16	21	WHI16000275	0.0023	2.3
AA072331	soil	2016	UTM83-9	531454	6844281	03-Sep-16	14	WHI16000274	0.0001	0.1

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA072332	soil	2016	UTM83-9	531416	6844240	03-Sep-16	22.5	WHI16000274	0.0001	0.1
AA072333	soil	2016	UTM83-9	531393	6844198	03-Sep-16	20.9	WHI16000274	0.0001	0.1
AA072334	soil	2016	UTM83-9	531359	6844158	03-Sep-16	17.9	WHI16000274	0.0001	0.1
AA072335	soil	2016	UTM83-9	531342	6843976	03-Sep-16	12.7	WHI16000274	0.0007	0.7
AA072336	soil	2016	UTM83-9	531313	6843942	03-Sep-16	36.2	WHI16000274	0.0201	20.1
AA072337	soil	2016	UTM83-9	531291	6843904	03-Sep-16	15.7	WHI16000274	0.0001	0.1
AA072338	soil	2016	UTM83-9	531253	6843864	03-Sep-16	16.8	WHI16000274	0.0001	0.1
AA072339	soil	2016	UTM83-9	531223	6843818	03-Sep-16	16	WHI16000274	0.0001	0.1
AA072340	soil	2016	UTM83-9	532197	6844578	04-Sep-16	79.9	WHI16000274	0.0151	15.1
AA072341	soil	2016	UTM83-9	532015	6844348	04-Sep-16	7.7	WHI16000274	0.0001	0.1
AA072342	soil	2016	UTM83-9	532170	6844544	04-Sep-16	19.9	WHI16000274	0.0007	0.7
AA072343	soil	2016	UTM83-9	532134	6844507	04-Sep-16	73.8	WHI16000274	0.0107	10.7
AA072344	soil	2016	UTM83-9	532134	6844507	04-Sep-16	67.4	WHI16000274	0.0191	19.1
AA072345	soil	2016	UTM83-9	532108	6844468	04-Sep-16	16.3	WHI16000274	0.0009	0.9
AA072346	soil	2016	UTM83-9	532076	6844425	04-Sep-16	49.6	WHI16000274	0.0084	8.4
AA072347	soil	2016	UTM83-9	532049	6844399	04-Sep-16	17.6	WHI16000274	0.0001	0.1
AA072348	soil	2016	UTM83-9	532012	6844347	04-Sep-16	8.8	WHI16000274	0.0001	0.1
AA072349	soil	2016	UTM83-9	531983	6844311	04-Sep-16	11	WHI16000274	0.0001	0.1
AA072350	soil	2016	UTM83-9	531945	6844270	04-Sep-16	10.5	WHI16000274	0.0001	0.1
AA072351	soil	2016	UTM83-9	532270	6844533	04-Sep-16	49.3	WHI16000274	0.0269	26.9
AA072352	soil	2016	UTM83-9	532230	6844485	04-Sep-16	59.4	WHI16000274	0.0107	10.7
AA072353	soil	2016	UTM83-9	532211	6844438	04-Sep-16	28.7	WHI16000274	0.0035	3.5
AA072354	soil	2016	UTM83-9	532189	6844406	04-Sep-16	50.1	WHI16000274	0.0049	4.9
AA072355	soil	2016	UTM83-9	532155	6844360	04-Sep-16	18.6	WHI16000274	0.0016	1.6
AA072356	soil	2016	UTM83-9	532121	6844330	04-Sep-16	45.4	WHI16000274	0.0044	4.4
AA072357	soil	2016	UTM83-9	532087	6844282	04-Sep-16	7.2	WHI16000274	0.0001	0.1
AA072358	soil	2016	UTM83-9	532061	6844240	04-Sep-16	28	WHI16000274	0.0014	1.4
AA072359	soil	2016	UTM83-9	532029	6844206	04-Sep-16	17.5	WHI16000274	0.0003	0.3
AA072360	soil	2016	UTM83-9	532003	6844167	04-Sep-16	12	WHI16000274	0.0004	0.4
AA072361	soil	2016	UTM83-9	531961	6844128	04-Sep-16	17	WHI16000274	0.0012	1.2
AA072362	soil	2016	UTM83-9	531936	6844083	04-Sep-16	15.4	WHI16000274	0.0005	0.5
AA072363	soil	2016	UTM83-9	531903	6844050	04-Sep-16	16.1	WHI16000274	0.0001	0.1
AA072364	soil	2016	UTM83-9	531867	6844006	04-Sep-16	22.2	WHI16000274	0.0016	1.6
AA072365	soil	2016	UTM83-9	531844	6843972	04-Sep-16	35.5	WHI16000274	0.0012	1.2
AA072366	soil	2016	UTM83-9	531806	6843925	04-Sep-16	18	WHI16000274	0.0062	6.2
AA072367	soil	2016	UTM83-9	531786	6843888	04-Sep-16	11.5	WHI16000274	0.0009	0.9
AA072368	soil	2016	UTM83-9	531756	6843850	04-Sep-16	7.5	WHI16000274	0.001	1
AA072369	soil	2016	UTM83-9	531717	6843814	04-Sep-16	15.2	WHI16000274	0.0033	3.3
AA072370	soil	2016	UTM83-9	531680	6843777	04-Sep-16	13.5	WHI16000274	0.0012	1.2
AA072371	soil	2016	UTM83-9	531654	6843728	04-Sep-16	24.5	WHI16000274	0.0042	4.2
AA072372	soil	2016	UTM83-9	531627	6843689	04-Sep-16	21.8	WHI16000274	0.0027	2.7
AA072373	soil	2016	UTM83-9	531590	6843649	04-Sep-16	18.7	WHI16000274	0.0036	3.6
AA072374	soil	2016	UTM83-9	531559	6843617	04-Sep-16	18.5	WHI16000274	0.0032	3.2
AA072375	soil	2016	UTM83-9	531538	6843578	04-Sep-16	22.4	WHI16000274	0.0021	2.1
AA072376	soil	2016	UTM83-9	531806	6844257	04-Sep-16	11	WHI16000274	0.0001	0.1
AA072377	soil	2016	UTM83-9	531786	6844216	04-Sep-16	11.6	WHI16000274	0.0001	0.1
AA072378	soil	2016	UTM83-9	531744	6844170	04-Sep-16	50.1	WHI16000274	0.0026	2.6
AA072379	soil	2016	UTM83-9	531710	6844127	04-Sep-16	26.7	WHI16000274	0.0008	0.8
AA072380	soil	2016	UTM83-9	531691	6844101	04-Sep-16	19	WHI16000274	0.0028	2.8
AA072381	soil	2016	UTM83-9	531660	6844054	04-Sep-16	4.2	WHI16000275	0.0025	2.5
AA072382	soil	2016	UTM83-9	531623	6844006	04-Sep-16	5.2	WHI16000275	0.0022	2.2
AA072383	soil	2016	UTM83-9	531598	6843974	04-Sep-16	19.2	WHI16000275	0.0017	1.7
AA072384	soil	2016	UTM83-9	531574	6843941	04-Sep-16	22.7	WHI16000275	0.0009	0.9
AA072385	soil	2016	UTM83-9	531537	6843905	04-Sep-16	6.8	WHI16000275	0.0013	1.3
AA072386	soil	2016	UTM83-9	531502	6843860	04-Sep-16	21.4	WHI16000275	0.0025	2.5
AA072387	soil	2016	UTM83-9	531462	6843806	04-Sep-16	34.7	WHI16000275	0.0041	4.1
AA072388	soil	2016	UTM83-9	531447	6843774	04-Sep-16	54.4	WHI16000275	0.0033	3.3
AA072389	soil	2016	UTM83-9	531414	6843743	04-Sep-16	8.9	WHI16000275	0.0008	0.8
AA072390	soil	2016	UTM83-9	531376	6843700	04-Sep-16	21	WHI16000275	0.0015	1.5
AA072391	soil	2016	UTM83-9	531428	6843589	04-Sep-16	17.6	WHI16000275	0.0032	3.2
AA072392	soil	2016	UTM83-9	531399	6843558	04-Sep-16	26.6	WHI16000275	0.0033	3.3

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA072393	soil	2016	UTM83-9	531363	6843524	04-Sep-16	13.6	WHI16000275	0.0025	2.5
AA072394	soil	2016	UTM83-9	531333	6843480	04-Sep-16	13.6	WHI16000275	0.002	2
AA072395	soil	2016	UTM83-9	531303	6843440	04-Sep-16	18.1	WHI16000275	0.0022	2.2
AA072396	soil	2016	UTM83-9	531280	6843392	04-Sep-16	20.8	WHI16000275	0.0024	2.4
AA072397	soil	2016	UTM83-9	531248	6843361	04-Sep-16	24.4	WHI16000275	0.0041	4.1
AA072398	soil	2016	UTM83-9	531213	6843316	04-Sep-16	35.6	WHI16000275	0.0012	1.2
AA072399	soil	2016	UTM83-9	531177	6843287	04-Sep-16	16.7	WHI16000275	0.0007	0.7
AA072400	soil	2016	UTM83-9	531156	6843241	04-Sep-16	2.4	WHI16000275	0.0005	0.5
AA072401	soil	2016	UTM83-9	531070	6843305	05-Sep-16	14.5	WHI16000275	0.0011	1.1
AA072402	soil	2016	UTM83-9	530928	6843425	05-Sep-16	32.6	WHI16000275	0.0037	3.7
AA072403	soil	2016	UTM83-9	530946	6843465	05-Sep-16	8.1	WHI16000275	0.0001	0.1
AA072404	soil	2016	UTM83-9	530966	6843493	05-Sep-16	6	WHI16000275	0.0016	1.6
AA072405	soil	2016	UTM83-9	531007	6843546	05-Sep-16	3.7	WHI16000275	0.0001	0.1
AA072406	soil	2016	UTM83-9	531021	6843582	05-Sep-16	7	WHI16000275	0.0001	0.1
AA072407	soil	2016	UTM83-9	531060	6843629	05-Sep-16	7.8	WHI16000275	0.0005	0.5
AA072408	soil	2016	UTM83-9	531102	6843660	05-Sep-16	11.4	WHI16000275	0.0003	0.3
AA072409	soil	2016	UTM83-9	531130	6843701	05-Sep-16	12.5	WHI16000275	0.0008	0.8
AA072410	soil	2016	UTM83-9	531160	6843742	05-Sep-16	27.6	WHI16000275	0.0004	0.4
AA072411	soil	2016	UTM83-9	531192	6843777	05-Sep-16	17.8	WHI16000275	0.0017	1.7
AA072414	soil	2016	UTM83-9	530999	6843364	05-Sep-16	35.3	WHI16000275	0.0004	0.4
AA072415	soil	2016	UTM83-9	531024	6843402	05-Sep-16	10.4	WHI16000275	0.0006	0.6
AA072416	soil	2016	UTM83-9	531057	6843442	05-Sep-16	10.3	WHI16000275	0.0006	0.6
AA072417	soil	2016	UTM83-9	531058	6843445	05-Sep-16	9.5	WHI16000275	0.0007	0.7
AA072418	soil	2016	UTM83-9	531088	6843481	05-Sep-16	10.4	WHI16000275	0.0001	0.1
AA072419	soil	2016	UTM83-9	531112	6843522	05-Sep-16	18.3	WHI16000275	0.0007	0.7
AA072420	soil	2016	UTM83-9	531150	6843564	05-Sep-16	20.7	WHI16000275	0.0001	0.1
AA072501	soil	2016	UTM83-9	526571	6857444	05-Sep-16	5.8	WHI16000238	0.0192	19.2
AA072502	soil	2016	UTM83-9	526520	6857438	05-Sep-16	9.7	WHI16000238	0.0026	2.6
AA072503	soil	2016	UTM83-9	526476	6857437	05-Sep-16	5	WHI16000238	0.0014	1.4
AA072504	soil	2016	UTM83-9	526426	6857437	05-Sep-16	3.8	WHI16000238	0.0022	2.2
AA072505	soil	2016	UTM83-9	526373	6857435	05-Sep-16	78.7	WHI16000238	0.0018	1.8
AA072506	soil	2016	UTM83-9	526326	6857441	05-Sep-16	31.4	WHI16000238	0.0038	3.8
AA072507	soil	2016	UTM83-9	526275	6857436	05-Sep-16	17.3	WHI16000238	0.0016	1.6
AA072508	soil	2016	UTM83-9	527574	6856937	05-Sep-16	8.7	WHI16000238	0.0008	0.8
AA072509	soil	2016	UTM83-9	527523	6856939	05-Sep-16	10.5	WHI16000238	0.0009	0.9
AA072510	soil	2016	UTM83-9	527474	6856937	05-Sep-16	7.7	WHI16000238	0.0006	0.6
AA072511	soil	2016	UTM83-9	527425	6856939	05-Sep-16	22.2	WHI16000238	0.0069	6.9
AA072512	soil	2016	UTM83-9	527374	6856937	05-Sep-16	21.4	WHI16000238	0.0067	6.7
AA072513	soil	2016	UTM83-9	527322	6856938	05-Sep-16	28.5	WHI16000238	0.0268	26.8
AA072514	soil	2016	UTM83-9	527276	6856934	05-Sep-16	210.3	WHI16000238	0.0142	14.2
AA072515	soil	2016	UTM83-9	527227	6856934	05-Sep-16	251.4	WHI16000238	0.0508	50.8
AA072516	soil	2016	UTM83-9	527174	6856936	05-Sep-16	35.8	WHI16000238	0.0093	9.3
AA072517	soil	2016	UTM83-9	527127	6856929	05-Sep-16	47.3	WHI16000238	0.0077	7.7
AA072518	soil	2016	UTM83-9	527069	6856932	05-Sep-16	13.8	WHI16000238	0.002	2
AA072519	soil	2016	UTM83-9	527021	6856933	05-Sep-16	17.3	WHI16000238	0.0028	2.8
AA072520	soil	2016	UTM83-9	526973	6856936	05-Sep-16	20.3	WHI16000238	0.003	3
AA072521	soil	2016	UTM83-9	526922	6856936	05-Sep-16	19.2	WHI16000238	0.0048	4.8
AA072522	soil	2016	UTM83-9	526870	6856938	05-Sep-16	7.2	WHI16000238	0.0084	8.4
AA072523	soil	2016	UTM83-9	526829	6856937	05-Sep-16	7	WHI16000238	0.0362	36.2
AA072524	soil	2016	UTM83-9	526774	6856934	05-Sep-16	6.4	WHI16000238	0.0096	9.6
AA072525	soil	2016	UTM83-9	526723	6856929	05-Sep-16	30.1	WHI16000238	0.0923	92.3
AA072526	soil	2016	UTM83-9	526683	6856925	05-Sep-16	35.6	WHI16000238	0.0613	61.3
AA072527	soil	2016	UTM83-9	526636	6856934	05-Sep-16	44	WHI16000238	0.0566	56.6
AA072528	soil	2016	UTM83-9	526575	6856929	05-Sep-16	23.9	WHI16000238	0.0085	8.5
AA072529	soil	2016	UTM83-9	526525	6856934	05-Sep-16	13.6	WHI16000238	0.0247	24.7
AA072530	soil	2016	UTM83-9	526474	6856933	05-Sep-16	11.1	WHI16000238	0.0016	1.6
AA072531	soil	2016	UTM83-9	526430	6856942	05-Sep-16	7.9	WHI16000238	0.0009	0.9
AA072532	soil	2016	UTM83-9	526375	6856928	05-Sep-16	52.6	WHI16000238	0.0028	2.8
AA072533	soil	2016	UTM83-9	526375	6856928	05-Sep-16	54.5	WHI16000238	0.0045	4.5
AA072534	soil	2016	UTM83-9	526338	6856940	05-Sep-16	54.3	WHI16000238	0.012	12
AA072535	soil	2016	UTM83-9	526283	6856938	05-Sep-16	30.7	WHI16000238	0.001	1

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA072536	soil	2016	UTM83-9	526229	6856939	05-Sep-16	44.8	WHI16000238	0.0001	0.1
AA072537	soil	2016	UTM83-9	526175	6856938	05-Sep-16	48.7	WHI16000238	0.0034	3.4
AA072538	soil	2016	UTM83-9	526122	6856935	05-Sep-16	42.3	WHI16000238	0.0066	6.6
AA072539	soil	2016	UTM83-9	527574	6856442	05-Sep-16	24.4	WHI16000238	0.0039	3.9
AA072540	soil	2016	UTM83-9	527526	6856442	05-Sep-16	27.9	WHI16000238	0.0108	10.8
AA072541	soil	2016	UTM83-9	527476	6856442	05-Sep-16	39.6	WHI16000238	0.0081	8.1
AA072542	soil	2016	UTM83-9	527430	6856445	05-Sep-16	105	WHI16000238	0.0078	7.8
AA072543	soil	2016	UTM83-9	527371	6856434	05-Sep-16	21.6	WHI16000238	0.0032	3.2
AA072544	soil	2016	UTM83-9	527323	6856442	05-Sep-16	29.3	WHI16000238	0.0014	1.4
AA072545	soil	2016	UTM83-9	527275	6856430	05-Sep-16	325.4	WHI16000238	0.0451	45.1
AA072546	soil	2016	UTM83-9	527224	6856441	05-Sep-16	20.1	WHI16000238	0.0031	3.1
AA072547	soil	2016	UTM83-9	527174	6856442	05-Sep-16	118.1	WHI16000238	0.0121	12.1
AA072548	soil	2016	UTM83-9	527129	6856439	05-Sep-16	59.1	WHI16000238	0.0167	16.7
AA072549	soil	2016	UTM83-9	527077	6856434	05-Sep-16	148.1	WHI16000238	0.0071	7.1
AA072550	soil	2016	UTM83-9	526978	6856445	05-Sep-16	73.6	WHI16000238	0.0155	15.5
AA072551	soil	2016	UTM83-9	526281	6856528	14-Aug-16	20.6	WHI16000238	0.0043	4.3
AA072552	soil	2016	UTM83-9	526241	6856527	14-Aug-16	14.5	WHI16000238	0.0024	2.4
AA072553	soil	2016	UTM83-9	526178	6856521	14-Aug-16	6.9	WHI16000238	0.0025	2.5
AA072554	soil	2016	UTM83-9	526140	6856529	14-Aug-16	2.6	WHI16000238	0.0001	0.1
AA072555	soil	2016	UTM83-9	526277	6856432	14-Aug-16	15.8	WHI16000238	0.0021	2.1
AA072556	soil	2016	UTM83-9	526314	6856445	14-Aug-16	19	WHI16000238	0.002	2
AA072557	soil	2016	UTM83-9	527604	6852358	15-Aug-16	23.4	WHI16000238	0.0002	0.2
AA072558	soil	2016	UTM83-9	527557	6852349	15-Aug-16	20.1	WHI16000238	0.002	2
AA072559	soil	2016	UTM83-9	527505	6852361	15-Aug-16	31.1	WHI16000238	0.0027	2.7
AA072560	soil	2016	UTM83-9	527450	6852354	15-Aug-16	25.2	WHI16000238	0.0009	0.9
AA072561	soil	2016	UTM83-9	527399	6852363	15-Aug-16	18.9	WHI16000236	0.0001	0.1
AA072562	soil	2016	UTM83-9	527352	6852350	15-Aug-16	32.2	WHI16000236	0.0033	3.3
AA072563	soil	2016	UTM83-9	527292	6852347	15-Aug-16	18.7	WHI16000236	0.0006	0.6
AA072564	soil	2016	UTM83-9	527257	6852361	15-Aug-16	14.9	WHI16000236	0.0011	1.1
AA072565	soil	2016	UTM83-9	527195	6852349	15-Aug-16	3.6	WHI16000236	0.0001	0.1
AA072566	soil	2016	UTM83-9	527186	6852349	15-Aug-16	10.4	WHI16000236	0.0002	0.2
AA072567	soil	2016	UTM83-9	527159	6852360	15-Aug-16	19.7	WHI16000236	0.0007	0.7
AA072568	soil	2016	UTM83-9	527096	6852344	15-Aug-16	24.3	WHI16000236	0.0007	0.7
AA072569	soil	2016	UTM83-9	527064	6852347	15-Aug-16	25.8	WHI16000236	0.0015	1.5
AA072570	soil	2016	UTM83-9	527066	6852265	15-Aug-16	18.1	WHI16000236	0.0008	0.8
AA072571	soil	2016	UTM83-9	527104	6852262	15-Aug-16	1.4	WHI16000236	0.0001	0.1
AA072572	soil	2016	UTM83-9	527152	6852257	15-Aug-16	25.7	WHI16000236	0.0006	0.6
AA072573	soil	2016	UTM83-9	527204	6852272	15-Aug-16	25.5	WHI16000236	0.0009	0.9
AA072574	soil	2016	UTM83-9	527254	6852266	15-Aug-16	12.7	WHI16000236	0.0008	0.8
AA072575	soil	2016	UTM83-9	527321	6852237	15-Aug-16	N/A	WHI16000236	N/A	N/A
AA072576	soil	2016	UTM83-9	527351	6852258	15-Aug-16	21.7	WHI16000236	0.0023	2.3
AA072577	soil	2016	UTM83-9	527398	6852264	15-Aug-16	16	WHI16000236	0.001	1
AA072578	soil	2016	UTM83-9	527452	6852259	15-Aug-16	18.4	WHI16000236	0.0011	1.1
AA072579	soil	2016	UTM83-9	527502	6852260	15-Aug-16	19.6	WHI16000236	0.0006	0.6
AA072580	soil	2016	UTM83-9	527547	6852268	15-Aug-16	18.3	WHI16000236	0.0009	0.9
AA072581	soil	2016	UTM83-9	527607	6852248	15-Aug-16	32.8	WHI16000271	0.0026	2.6
AA072582	soil	2016	UTM83-9	527586	6852161	15-Aug-16	17.2	WHI16000271	0.0016	1.6
AA072583	soil	2016	UTM83-9	527554	6852151	15-Aug-16	14.8	WHI16000271	0.0014	1.4
AA072584	soil	2016	UTM83-9	527508	6852157	15-Aug-16	67.5	WHI16000271	0.0081	8.1
AA072585	soil	2016	UTM83-9	527455	6852160	15-Aug-16	52	WHI16000271	0.0042	4.2
AA072586	soil	2016	UTM83-9	527405	6852161	15-Aug-16	50.6	WHI16000271	0.0075	7.5
AA072587	soil	2016	UTM83-9	527348	6852159	16-Aug-16	11.4	WHI16000271	0.0007	0.7
AA072588	soil	2016	UTM83-9	527300	6852160	16-Aug-16	51.8	WHI16000271	0.006	6
AA072589	soil	2016	UTM83-9	527264	6852164	16-Aug-16	48.1	WHI16000271	0.0043	4.3
AA072590	soil	2016	UTM83-9	527189	6852157	16-Aug-16	8.5	WHI16000271	0.0006	0.6
AA072591	soil	2016	UTM83-9	527161	6852160	16-Aug-16	4	WHI16000236	0.0017	1.7
AA072592	soil	2016	UTM83-9	527107	6852153	16-Aug-16	8.5	WHI16000236	0.001	1
AA072593	soil	2016	UTM83-9	527059	6852155	16-Aug-16	0.05	WHI16000236	0.0004	0.4
AA072594	soil	2016	UTM83-9	527060	6852068	16-Aug-16	20.6	WHI16000236	0.0028	2.8
AA072595	soil	2016	UTM83-9	527100	6852060	16-Aug-16	4.2	WHI16000236	0.0005	0.5
AA072596	soil	2016	UTM83-9	527154	6852060	16-Aug-16	20	WHI16000236	0.003	3

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AA072597	soil	2016	UTM83-9	527195	6852060	16-Aug-16	28.6	WHI16000236	0.0014	1.4
AA072598	soil	2016	UTM83-9	527247	6852062	16-Aug-16	0.8	WHI16000236	0.0004	0.4
AA072599	soil	2016	UTM83-9	527302	6852066	16-Aug-16	35.4	WHI16000236	0.004	4
AA072600	soil	2016	UTM83-9	527352	6852051	16-Aug-16	75.6	WHI16000236	0.0009	0.9
AA072601	soil	2016	UTM83-9	527569	6856644	14-Aug-16	14.6	WHI16000238	0.0021	2.1
AA072602	soil	2016	UTM83-9	527520	6856653	14-Aug-16	14.9	WHI16000238	0.0035	3.5
AA072603	soil	2016	UTM83-9	527479	6856638	14-Aug-16	22.2	WHI16000238	0.0032	3.2
AA072604	soil	2016	UTM83-9	527425	6856649	14-Aug-16	27	WHI16000238	0.0028	2.8
AA072605	soil	2016	UTM83-9	527372	6856639	14-Aug-16	37.1	WHI16000238	0.0058	5.8
AA072606	soil	2016	UTM83-9	527326	6856637	14-Aug-16	19	WHI16000238	0.0029	2.9
AA072607	soil	2016	UTM83-9	527272	6856641	14-Aug-16	26	WHI16000238	0.005	5
AA072608	soil	2016	UTM83-9	527222	6856638	14-Aug-16	16.7	WHI16000238	0.002	2
AA072609	soil	2016	UTM83-9	527178	6856630	14-Aug-16	19.3	WHI16000238	0.003	3
AA072610	soil	2016	UTM83-9	527120	6856640	14-Aug-16	18.4	WHI16000238	0.005	5
AA072611	soil	2016	UTM83-9	527067	6856634	14-Aug-16	25.9	WHI16000238	0.0238	23.8
AA072612	soil	2016	UTM83-9	527026	6856637	14-Aug-16	31.5	WHI16000238	0.0031	3.1
AA072613	soil	2016	UTM83-9	526976	6856634	14-Aug-16	27.9	WHI16000238	0.0126	12.6
AA072614	soil	2016	UTM83-9	526924	6856639	14-Aug-16	98	WHI16000238	0.0079	7.9
AA072615	soil	2016	UTM83-9	526879	6856633	14-Aug-16	26.3	WHI16000238	0.003	3
AA072616	soil	2016	UTM83-9	526824	6856638	14-Aug-16	71.1	WHI16000238	0.0218	21.8
AA072617	soil	2016	UTM83-9	526770	6856637	14-Aug-16	249.1	WHI16000238	0.1626	162.6
AA072618	soil	2016	UTM83-9	526721	6856642	14-Aug-16	67.7	WHI16000238	0.0126	12.6
AA072619	soil	2016	UTM83-9	526673	6856636	14-Aug-16	36.9	WHI16000238	0.0073	7.3
AA072620	soil	2016	UTM83-9	526625	6856638	14-Aug-16	64.5	WHI16000238	0.0044	4.4
AA072621	soil	2016	UTM83-9	526577	6856635	14-Aug-16	14	WHI16000238	0.0012	1.2
AA072622	soil	2016	UTM83-9	526528	6856632	14-Aug-16	22.7	WHI16000238	0.0054	5.4
AA072623	soil	2016	UTM83-9	526479	6856639	14-Aug-16	19.1	WHI16000238	0.0042	4.2
AA072624	soil	2016	UTM83-9	526424	6856637	14-Aug-16	22	WHI16000238	0.0016	1.6
AA072625	soil	2016	UTM83-9	526376	6856645	14-Aug-16	18.6	WHI16000238	0.0014	1.4
AA072626	soil	2016	UTM83-9	526322	6856636	14-Aug-16	34.5	WHI16000238	0.0012	1.2
AA072627	soil	2016	UTM83-9	526274	6856639	14-Aug-16	25.5	WHI16000238	0.0027	2.7
AA072628	soil	2016	UTM83-9	526218	6856635	14-Aug-16	3.1	WHI16000238	0.0003	0.3
AA072629	soil	2016	UTM83-9	526218	6856635	14-Aug-16	1.3	WHI16000238	0.0001	0.1
AA072630	soil	2016	UTM83-9	526176	6856638	14-Aug-16	28.1	WHI16000238	0.004	4
AA072631	soil	2016	UTM83-9	526135	6856634	14-Aug-16	10.8	WHI16000271	0.0046	4.6
AA072632	soil	2016	UTM83-9	526127	6856436	14-Aug-16	17	WHI16000271	0.0016	1.6
AA072633	soil	2016	UTM83-9	526177	6856434	14-Aug-16	27.2	WHI16000271	0.0034	3.4
AA072634	soil	2016	UTM83-9	526216	6856445	14-Aug-16	18	WHI16000271	0.0029	2.9
AA072635	soil	2016	UTM83-9	527351	6852657	15-Aug-16	33.6	WHI16000271	0.0009	0.9
AA072636	soil	2016	UTM83-9	527300	6852667	15-Aug-16	23.6	WHI16000271	0.0018	1.8
AA072637	soil	2016	UTM83-9	527253	6852659	15-Aug-16	24.4	WHI16000271	0.0025	2.5
AA072638	soil	2016	UTM83-9	527204	6852660	15-Aug-16	20.7	WHI16000271	0.0014	1.4
AA072639	soil	2016	UTM83-9	527162	6852656	15-Aug-16	25.5	WHI16000271	0.0012	1.2
AA072640	soil	2016	UTM83-9	527104	6852658	15-Aug-16	60.4	WHI16000271	0.0083	8.3
AA072641	soil	2016	UTM83-9	527054	6852660	15-Aug-16	8.1	WHI16000235	0.0018	1.8
AA072642	soil	2016	UTM83-9	527061	6852560	15-Aug-16	13.2	WHI16000235	0.003	3
AA072643	soil	2016	UTM83-9	527103	6852558	15-Aug-16	49.5	WHI16000235	0.0042	4.2
AA072644	soil	2016	UTM83-9	527151	6852561	15-Aug-16	704.4	WHI16000235	0.0235	23.5
AA072645	soil	2016	UTM83-9	527204	6852560	15-Aug-16	34.3	WHI16000235	0.0034	3.4
AA072646	soil	2016	UTM83-9	527247	6852562	15-Aug-16	49.7	WHI16000235	0.0053	5.3
AA072647	soil	2016	UTM83-9	527304	6852558	15-Aug-16	367.2	WHI16000235	0.0418	41.8
AA072648	soil	2016	UTM83-9	527354	6852560	15-Aug-16	30.5	WHI16000235	0.0017	1.7
AA072649	soil	2016	UTM83-9	527403	6852556	15-Aug-16	31.9	WHI16000235	0.0025	2.5
AA072650	soil	2016	UTM83-9	527549	6852455	15-Aug-16	31.9	WHI16000235	0.003	3
AA072651	soil	2016	UTM83-9	526920	6856433	15-Aug-16	165.8	WHI16000238	0.0083	8.3
AA072652	soil	2016	UTM83-9	526874	6856452	15-Aug-16	17.1	WHI16000238	0.0012	1.2
AA072653	soil	2016	UTM83-9	526828	6856450	15-Aug-16	36.1	WHI16000238	0.0261	26.1
AA072654	soil	2016	UTM83-9	526772	6856441	15-Aug-16	18.3	WHI16000238	0.0011	1.1
AA072655	soil	2016	UTM83-9	526728	6856435	15-Aug-16	34.4	WHI16000238	0.0073	7.3
AA072656	soil	2016	UTM83-9	526688	6856444	15-Aug-16	25.2	WHI16000238	0.0026	2.6
AA072657	soil	2016	UTM83-9	526624	6856434	15-Aug-16	36.2	WHI16000238	0.0033	3.3

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA072658	soil	2016	UTM83-9	526580	6856438	15-Aug-16	10.6	WHI16000238	0.0012	1.2
AA072659	soil	2016	UTM83-9	526529	6856438	15-Aug-16	59.8	WHI16000238	0.0115	11.5
AA072660	soil	2016	UTM83-9	526477	6856427	15-Aug-16	58.3	WHI16000238	0.025	25
AA072661	soil	2016	UTM83-9	526423	6856439	15-Aug-16	49.8	WHI16000238	0.0027	2.7
AA072662	soil	2016	UTM83-9	526372	6856425	15-Aug-16	18.9	WHI16000238	0.0021	2.1
AA072663	soil	2016	UTM83-9	527110	6853255	15-Aug-16	46.1	WHI16000238	0.0045	4.5
AA072664	soil	2016	UTM83-9	527055	6853262	15-Aug-16	74.5	WHI16000238	0.008	8
AA072665	soil	2016	UTM83-9	527295	6853148	15-Aug-16	31.8	WHI16000238	0.0068	6.8
AA072666	soil	2016	UTM83-9	527252	6853157	15-Aug-16	27.4	WHI16000238	0.0053	5.3
AA072667	soil	2016	UTM83-9	527198	6853159	15-Aug-16	39	WHI16000238	0.0099	9.9
AA072668	soil	2016	UTM83-9	527153	6853161	15-Aug-16	84.1	WHI16000238	0.0034	3.4
AA072669	soil	2016	UTM83-9	527107	6853143	15-Aug-16	112.3	WHI16000238	0.0116	11.6
AA072670	soil	2016	UTM83-9	527154	6853060	15-Aug-16	42.4	WHI16000238	0.0041	4.1
AA072671	soil	2016	UTM83-9	527154	6853060	15-Aug-16	44.9	WHI16000236	0.007	7
AA072672	soil	2016	UTM83-9	527104	6853053	15-Aug-16	35.9	WHI16000236	0.0058	5.8
AA072673	soil	2016	UTM83-9	527063	6853059	15-Aug-16	107.5	WHI16000236	0.0134	13.4
AA072674	soil	2016	UTM83-9	527058	6852863	15-Aug-16	18.2	WHI16000236	0.0019	1.9
AA072675	soil	2016	UTM83-9	527104	6852860	15-Aug-16	19.9	WHI16000236	0.0016	1.6
AA072676	soil	2016	UTM83-9	527154	6852864	15-Aug-16	29.8	WHI16000236	0.0112	11.2
AA072677	soil	2016	UTM83-9	527352	6852755	15-Aug-16	29.2	WHI16000236	0.0042	4.2
AA072678	soil	2016	UTM83-9	527304	6852757	15-Aug-16	N/A	WHI16000236	N/A	N/A
AA072679	soil	2016	UTM83-9	527251	6852758	15-Aug-16	N/A	WHI16000236	N/A	N/A
AA072680	soil	2016	UTM83-9	527211	6852760	15-Aug-16	21.2	WHI16000236	0.0018	1.8
AA072681	soil	2016	UTM83-9	527152	6852760	15-Aug-16	32.4	WHI16000236	0.0016	1.6
AA072682	soil	2016	UTM83-9	527105	6852755	15-Aug-16	24.7	WHI16000236	0.0034	3.4
AA072683	soil	2016	UTM83-9	527060	6852754	15-Aug-16	24.4	WHI16000236	0.001	1
AA072684	soil	2016	UTM83-9	527057	6853157	15-Aug-16	148.8	WHI16000236	0.0161	16.1
AA072685	soil	2016	UTM83-9	527703	6851589	15-Aug-16	102.7	WHI16000236	0.0252	25.2
AA072686	soil	2016	UTM83-9	527665	6851548	15-Aug-16	128.9	WHI16000236	0.0097	9.7
AA072687	soil	2016	UTM83-9	527604	6851546	15-Aug-16	190.4	WHI16000236	0.0314	31.4
AA072688	soil	2016	UTM83-9	527552	6851552	15-Aug-16	81.7	WHI16000236	0.0112	11.2
AA072689	soil	2016	UTM83-9	527519	6851557	15-Aug-16	12.3	WHI16000236	0.0023	2.3
AA072690	soil	2016	UTM83-9	527456	6851552	15-Aug-16	60.8	WHI16000236	0.008	8
AA072691	soil	2016	UTM83-9	527400	6851554	15-Aug-16	10.7	WHI16000236	0.0001	0.1
AA072692	soil	2016	UTM83-9	527355	6851553	15-Aug-16	13.9	WHI16000236	0.0019	1.9
AA072693	soil	2016	UTM83-9	527312	6851554	15-Aug-16	737.8	WHI16000236	0.018	18
AA072694	soil	2016	UTM83-9	527252	6851552	15-Aug-16	38.5	WHI16000236	0.0019	1.9
AA072695	soil	2016	UTM83-9	527205	6851555	15-Aug-16	25.1	WHI16000236	0.002	2
AA072696	soil	2016	UTM83-9	527100	6851550	15-Aug-16	54.4	WHI16000236	0.0028	2.8
AA072697	soil	2016	UTM83-9	527058	6851552	15-Aug-16	30.6	WHI16000236	0.0052	5.2
AA072698	soil	2016	UTM83-9	527057	6851222	15-Aug-16	19.6	WHI16000236	0.0035	3.5
AA072699	soil	2016	UTM83-9	527208	6850980	15-Aug-16	89.8	WHI16000236	0.0049	4.9
AA072700	soil	2016	UTM83-9	527249	6850894	15-Aug-16	21.4	WHI16000236	0.001	1
AA072701	soil	2016	UTM83-9	526228	6856339	14-Aug-16	12.6	WHI16000238	0.0019	1.9
AA072702	soil	2016	UTM83-9	526176	6856337	14-Aug-16	5.8	WHI16000238	0.0018	1.8
AA072703	soil	2016	UTM83-9	526132	6856340	14-Aug-16	1.9	WHI16000238	0.0004	0.4
AA072704	soil	2016	UTM83-9	527574	6856135	15-Aug-16	47.6	WHI16000238	0.0036	3.6
AA072705	soil	2016	UTM83-9	527523	6856140	15-Aug-16	49.8	WHI16000238	0.0009	0.9
AA072706	soil	2016	UTM83-9	527472	6856143	15-Aug-16	38.7	WHI16000238	0.0021	2.1
AA072707	soil	2016	UTM83-9	527430	6856140	15-Aug-16	36.4	WHI16000238	0.0005	0.5
AA072708	soil	2016	UTM83-9	527376	6856145	15-Aug-16	22.9	WHI16000238	0.0037	3.7
AA072709	soil	2016	UTM83-9	527328	6856145	15-Aug-16	32.2	WHI16000238	0.0041	4.1
AA072710	soil	2016	UTM83-9	527273	6856142	15-Aug-16	50	WHI16000238	0.0073	7.3
AA072711	soil	2016	UTM83-9	527226	6856134	15-Aug-16	31	WHI16000238	0.0026	2.6
AA072712	soil	2016	UTM83-9	527176	6856141	15-Aug-16	44.3	WHI16000238	0.0017	1.7
AA072713	soil	2016	UTM83-9	527126	6856145	15-Aug-16	24.7	WHI16000238	0.0009	0.9
AA072714	soil	2016	UTM83-9	527126	6856145	15-Aug-16	26.4	WHI16000238	0.0048	4.8
AA072715	soil	2016	UTM83-9	527080	6856143	15-Aug-16	150.5	WHI16000238	0.0104	10.4
AA072716	soil	2016	UTM83-9	527025	6856141	15-Aug-16	25.4	WHI16000238	0.0038	3.8
AA072717	soil	2016	UTM83-9	526972	6856140	15-Aug-16	25.2	WHI16000238	0.0067	6.7
AA072718	soil	2016	UTM83-9	526925	6856141	15-Aug-16	8.8	WHI16000238	0.0013	1.3

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA072719	soil	2016	UTM83-9	526876	6856143	15-Aug-16	26.5	WHI16000238	0.0021	2.1
AA072720	soil	2016	UTM83-9	526822	6856145	15-Aug-16	28.5	WHI16000238	0.0041	4.1
AA072721	soil	2016	UTM83-9	526781	6856148	15-Aug-16	25.4	WHI16000271	0.0111	11.1
AA072722	soil	2016	UTM83-9	526726	6856153	15-Aug-16	27.5	WHI16000271	0.0205	20.5
AA072723	soil	2016	UTM83-9	526674	6856143	15-Aug-16	14.6	WHI16000271	0.0039	3.9
AA072724	soil	2016	UTM83-9	526622	6856146	15-Aug-16	23.3	WHI16000271	0.0043	4.3
AA072725	soil	2016	UTM83-9	526577	6856138	15-Aug-16	22	WHI16000271	0.0056	5.6
AA072726	soil	2016	UTM83-9	527686	6851650	16-Aug-16	34.4	WHI16000271	0.0048	4.8
AA072727	soil	2016	UTM83-9	527645	6851646	16-Aug-16	897.5	WHI16000271	0.1	100
AA072728	soil	2016	UTM83-9	527601	6851668	16-Aug-16	101	WHI16000271	0.0119	11.9
AA072729	soil	2016	UTM83-9	527553	6851661	16-Aug-16	N/A	WHI16000271	N/A	N/A
AA072730	soil	2016	UTM83-9	527502	6851649	16-Aug-16	50.2	WHI16000271	0.0058	5.8
AA072731	soil	2016	UTM83-9	527460	6851664	16-Aug-16	121.6	WHI16000236	0.0061	6.1
AA072732	soil	2016	UTM83-9	527357	6851657	16-Aug-16	24.9	WHI16000236	0.005	5
AA072733	soil	2016	UTM83-9	527304	6851653	16-Aug-16	26.8	WHI16000236	0.0102	10.2
AA072734	soil	2016	UTM83-9	527210	6851658	16-Aug-16	84.1	WHI16000236	0.0029	2.9
AA072735	soil	2016	UTM83-9	527154	6851650	16-Aug-16	20.9	WHI16000236	0.0045	4.5
AA072736	soil	2016	UTM83-9	527103	6851659	16-Aug-16	14.2	WHI16000236	0.0026	2.6
AA072737	soil	2016	UTM83-9	527066	6851656	16-Aug-16	18.8	WHI16000236	0.0015	1.5
AA072738	soil	2016	UTM83-9	527058	6851758	16-Aug-16	42.8	WHI16000236	0.0046	4.6
AA072739	soil	2016	UTM83-9	527097	6851758	16-Aug-16	76.6	WHI16000236	0.0067	6.7
AA072740	soil	2016	UTM83-9	527142	6851750	16-Aug-16	52.7	WHI16000236	0.006	6
AA072741	soil	2016	UTM83-9	527200	6851762	16-Aug-16	12.4	WHI16000236	0.0032	3.2
AA072742	soil	2016	UTM83-9	527248	6851763	16-Aug-16	1.8	WHI16000236	0.001	1
AA072743	soil	2016	UTM83-9	527298	6851755	16-Aug-16	26.9	WHI16000236	0.0024	2.4
AA072744	soil	2016	UTM83-9	527346	6851744	16-Aug-16	29.1	WHI16000236	0.0068	6.8
AA072745	soil	2016	UTM83-9	527398	6851749	16-Aug-16	12	WHI16000236	0.0012	1.2
AA072746	soil	2016	UTM83-9	527449	6851751	16-Aug-16	52.5	WHI16000236	0.0114	11.4
AA072747	soil	2016	UTM83-9	527500	6851753	16-Aug-16	43.3	WHI16000236	0.0087	8.7
AA072748	soil	2016	UTM83-9	527550	6851753	16-Aug-16	59.5	WHI16000236	0.0163	16.3
AA072749	soil	2016	UTM83-9	527596	6851753	16-Aug-16	85.1	WHI16000236	0.0205	20.5
AA072750	soil	2016	UTM83-9	530654	6846488	17-Aug-16	144.2	WHI16000236	0.009	9
AA072751	soil	2016	UTM83-9	526478	6856239	14-Aug-16	15.4	WHI16000238	0.0001	0.1
AA072752	soil	2016	UTM83-9	526425	6856238	14-Aug-16	17.8	WHI16000238	0.0016	1.6
AA072753	soil	2016	UTM83-9	526384	6856239	14-Aug-16	20.1	WHI16000238	0.0025	2.5
AA072754	soil	2016	UTM83-9	526326	6856249	15-Aug-16	16.7	WHI16000238	0.0053	5.3
AA072755	soil	2016	UTM83-9	526281	6856239	15-Aug-16	13.8	WHI16000238	0.0004	0.4
AA072756	soil	2016	UTM83-9	526231	6856240	15-Aug-16	15.8	WHI16000238	0.0089	8.9
AA072757	soil	2016	UTM83-9	526174	6856241	15-Aug-16	3.1	WHI16000238	0.0005	0.5
AA072758	soil	2016	UTM83-9	526126	6856243	15-Aug-16	4.1	WHI16000238	0.0001	0.1
AA072759	soil	2016	UTM83-9	526125	6856144	15-Aug-16	32.1	WHI16000238	0.0196	19.6
AA072760	soil	2016	UTM83-9	526168	6856134	15-Aug-16	23.8	WHI16000238	0.0117	11.7
AA072761	soil	2016	UTM83-9	526218	6856134	15-Aug-16	14.4	WHI16000271	0.0012	1.2
AA072762	soil	2016	UTM83-9	526265	6856138	15-Aug-16	9	WHI16000271	0.0068	6.8
AA072763	soil	2016	UTM83-9	526316	6856138	15-Aug-16	18.7	WHI16000271	0.0041	4.1
AA072764	soil	2016	UTM83-9	526376	6856139	15-Aug-16	11.6	WHI16000271	0.0015	1.5
AA072765	soil	2016	UTM83-9	526420	6856145	15-Aug-16	8	WHI16000271	0.0006	0.6
AA072766	soil	2016	UTM83-9	526469	6856140	15-Aug-16	23.9	WHI16000271	0.0021	2.1
AA072767	soil	2016	UTM83-9	526514	6856136	15-Aug-16	54.6	WHI16000271	0.0246	24.6
AA072768	soil	2016	UTM83-9	527608	6851867	16-Aug-16	12.2	WHI16000271	0.0011	1.1
AA072769	soil	2016	UTM83-9	527562	6851861	16-Aug-16	37.7	WHI16000271	0.0107	10.7
AA072770	soil	2016	UTM83-9	527507	6851857	16-Aug-16	28.2	WHI16000271	0.0074	7.4
AA072771	soil	2016	UTM83-9	527463	6851855	16-Aug-16	20.1	WHI16000235	0.0031	3.1
AA072772	soil	2016	UTM83-9	527408	6851863	16-Aug-16	117.9	WHI16000235	0.0259	25.9
AA072773	soil	2016	UTM83-9	527310	6851858	16-Aug-16	109.8	WHI16000235	0.0091	9.1
AA072774	soil	2016	UTM83-9	527360	6851860	16-Aug-16	48.9	WHI16000235	0.008	8
AA072775	soil	2016	UTM83-9	527267	6851854	16-Aug-16	77.4	WHI16000235	0.0078	7.8
AA072776	soil	2016	UTM83-9	527208	6851857	16-Aug-16	61.7	WHI16000235	0.0036	3.6
AA072777	soil	2016	UTM83-9	527165	6851858	16-Aug-16	107.2	WHI16000235	0.0094	9.4
AA072778	soil	2016	UTM83-9	527110	6851858	16-Aug-16	24	WHI16000235	0.0017	1.7
AA072779	soil	2016	UTM83-9	527061	6851857	16-Aug-16	129.6	WHI16000235	0.0012	1.2

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA072780	soil	2016	UTM83-9	527050	6851951	16-Aug-16	101.7	WHI16000235	0.0095	9.5
AA072781	soil	2016	UTM83-9	527101	6851963	16-Aug-16	33.1	WHI16000235	0.0002	0.2
AA072782	soil	2016	UTM83-9	527145	6851970	16-Aug-16	26.1	WHI16000235	0.0035	3.5
AA072783	soil	2016	UTM83-9	527198	6851966	16-Aug-16	7.5	WHI16000235	0.0001	0.1
AA072784	soil	2016	UTM83-9	527246	6851963	16-Aug-16	6.7	WHI16000235	0.0004	0.4
AA072785	soil	2016	UTM83-9	527289	6851957	16-Aug-16	43.3	WHI16000235	0.0071	7.1
AA072786	soil	2016	UTM83-9	527346	6851956	16-Aug-16	15.5	WHI16000235	0.0033	3.3
AA072787	soil	2016	UTM83-9	527404	6851954	16-Aug-16	31	WHI16000235	0.006	6
AA072788	soil	2016	UTM83-9	527447	6851961	16-Aug-16	13.7	WHI16000235	0.0034	3.4
AA072789	soil	2016	UTM83-9	527503	6851958	16-Aug-16	165.4	WHI16000235	0.0211	21.1
AA072790	soil	2016	UTM83-9	527504	6851956	16-Aug-16	162.5	WHI16000235	0.0094	9.4
AA072791	soil	2016	UTM83-9	526537	6851587	17-Aug-16	20.7	WHI16000237	0.0037	3.7
AA072792	soil	2016	UTM83-9	526564	6851506	17-Aug-16	14.2	WHI16000237	0.0042	4.2
AA072793	soil	2016	UTM83-9	526587	6851395	17-Aug-16	14.4	WHI16000237	0.0029	2.9
AA072794	soil	2016	UTM83-9	526610	6851317	17-Aug-16	10.6	WHI16000237	0.001	1
AA072795	soil	2016	UTM83-9	526632	6851216	17-Aug-16	25.8	WHI16000237	0.0025	2.5
AA072796	soil	2016	UTM83-9	526648	6851112	17-Aug-16	75.2	WHI16000237	0.0024	2.4
AA072797	soil	2016	UTM83-9	526662	6851018	17-Aug-16	283.3	WHI16000237	0.0286	28.6
AA072798	soil	2016	UTM83-9	526698	6850924	17-Aug-16	92.1	WHI16000237	0.0067	6.7
AA072799	soil	2016	UTM83-9	526732	6850830	17-Aug-16	38.7	WHI16000237	0.0059	5.9
AA072800	soil	2016	UTM83-9	526749	6850724	17-Aug-16	50.4	WHI16000237	0.0004	0.4
AA072801	soil	2016	UTM83-9	527598	6852461	15-Aug-16	27.2	WHI16000235	0.0038	3.8
AA072802	soil	2016	UTM83-9	527653	6852458	15-Aug-16	26.5	WHI16000235	0.0015	1.5
AA072803	soil	2016	UTM83-9	527701	6852458	15-Aug-16	42.7	WHI16000235	0.0054	5.4
AA072804	soil	2016	UTM83-9	527755	6852459	15-Aug-16	52.4	WHI16000235	0.0033	3.3
AA072805	soil	2016	UTM83-9	527508	6852462	15-Aug-16	19.2	WHI16000235	0.0011	1.1
AA072806	soil	2016	UTM83-9	527454	6852460	15-Aug-16	29.3	WHI16000235	0.0057	5.7
AA072807	soil	2016	UTM83-9	527411	6852459	15-Aug-16	32.6	WHI16000235	0.0017	1.7
AA072808	soil	2016	UTM83-9	527352	6852459	15-Aug-16	24.1	WHI16000235	0.0024	2.4
AA072809	soil	2016	UTM83-9	527304	6852459	15-Aug-16	43.4	WHI16000235	0.0012	1.2
AA072810	soil	2016	UTM83-9	527250	6852462	15-Aug-16	7	WHI16000235	0.0018	1.8
AA072811	soil	2016	UTM83-9	527213	6852464	15-Aug-16	45.9	WHI16000271	0.0145	14.5
AA072812	soil	2016	UTM83-9	527104	6852459	15-Aug-16	27.7	WHI16000271	0.0062	6.2
AA072813	soil	2016	UTM83-9	527704	6851454	16-Aug-16	36.5	WHI16000271	0.0017	1.7
AA072814	soil	2016	UTM83-9	527659	6851461	16-Aug-16	34.9	WHI16000271	0.0024	2.4
AA072815	soil	2016	UTM83-9	527608	6851455	16-Aug-16	14.5	WHI16000271	0.0011	1.1
AA072816	soil	2016	UTM83-9	527564	6851453	16-Aug-16	55.8	WHI16000271	0.0164	16.4
AA072817	soil	2016	UTM83-9	527564	6851453	16-Aug-16	54.1	WHI16000271	0.0157	15.7
AA072818	soil	2016	UTM83-9	527443	6851462	16-Aug-16	13.2	WHI16000271	0.0002	0.2
AA072819	soil	2016	UTM83-9	527403	6851459	16-Aug-16	35.6	WHI16000271	0.0062	6.2
AA072820	soil	2016	UTM83-9	527356	6851462	16-Aug-16	118.3	WHI16000271	0.0083	8.3
AA072821	soil	2016	UTM83-9	527297	6851459	16-Aug-16	96.6	WHI16000237	0.0132	13.2
AA072822	soil	2016	UTM83-9	527253	6851458	16-Aug-16	13.1	WHI16000237	0.0015	1.5
AA072823	soil	2016	UTM83-9	527206	6851457	16-Aug-16	38.9	WHI16000237	0.0011	1.1
AA072824	soil	2016	UTM83-9	527152	6851458	16-Aug-16	19.2	WHI16000237	0.0025	2.5
AA072825	soil	2016	UTM83-9	527104	6851457	16-Aug-16	25.9	WHI16000237	0.0012	1.2
AA072826	soil	2016	UTM83-9	527059	6851463	16-Aug-16	58.8	WHI16000237	0.0014	1.4
AA072827	soil	2016	UTM83-9	527385	6851231	16-Aug-16	20.9	WHI16000237	0.0009	0.9
AA072828	soil	2016	UTM83-9	527447	6851170	16-Aug-16	49.7	WHI16000237	0.001	1
AA072829	soil	2016	UTM83-9	527516	6851094	16-Aug-16	70	WHI16000237	0.0008	0.8
AA072830	soil	2016	UTM83-9	527569	6851003	16-Aug-16	560.3	WHI16000237	0.0115	11.5
AA072831	soil	2016	UTM83-9	527661	6850969	16-Aug-16	22.8	WHI16000237	0.0015	1.5
AA072832	soil	2016	UTM83-9	527708	6850884	16-Aug-16	10.1	WHI16000237	0.0005	0.5
AA072833	soil	2016	UTM83-9	527779	6850823	16-Aug-16	19.2	WHI16000237	0.0014	1.4
AA072834	soil	2016	UTM83-9	527855	6850753	16-Aug-16	17.9	WHI16000237	0.0005	0.5
AA072835	soil	2016	UTM83-9	527956	6850773	16-Aug-16	38	WHI16000237	0.0045	4.5
AA072836	soil	2016	UTM83-9	528051	6850814	17-Aug-16	26.2	WHI16000237	0.0034	3.4
AA072837	soil	2016	UTM83-9	528125	6850809	17-Aug-16	25.1	WHI16000237	0.0029	2.9
AA072838	soil	2016	UTM83-9	528161	6850728	17-Aug-16	48.3	WHI16000237	0.0035	3.5
AA072839	soil	2016	UTM83-9	528133	6850624	17-Aug-16	27.7	WHI16000237	0.0018	1.8
AA072840	soil	2016	UTM83-9	528117	6850526	17-Aug-16	58.6	WHI16000237	0.0029	2.9

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA072841	soil	2016	UTM83-9	528106	6850430	17-Aug-16	516.4	WHI16000237	0.005	5
AA072842	soil	2016	UTM83-9	528123	6850345	17-Aug-16	91.8	WHI16000237	0.0024	2.4
AA072843	soil	2016	UTM83-9	528167	6850237	17-Aug-16	26.7	WHI16000237	0.0012	1.2
AA072844	soil	2016	UTM83-9	528195	6850153	17-Aug-16	11.9	WHI16000237	0.0012	1.2
AA072845	soil	2016	UTM83-9	528285	6849974	17-Aug-16	14.6	WHI16000237	0.002	2
AA072846	soil	2016	UTM83-9	528350	6849908	17-Aug-16	331	WHI16000237	0.0466	46.6
AA072847	soil	2016	UTM83-9	528350	6849908	17-Aug-16	369.2	WHI16000237	0.0263	26.3
AA072848	soil	2016	UTM83-9	528427	6849845	17-Aug-16	38.9	WHI16000237	0.0017	1.7
AA072849	soil	2016	UTM83-9	528500	6849757	17-Aug-16	52.1	WHI16000237	0.0054	5.4
AA072850	soil	2016	UTM83-9	528571	6849688	17-Aug-16	328.6	WHI16000237	0.0183	18.3
AA072851	soil	2016	UTM83-9	526793	6850642	17-Aug-16	138.3	WHI16000237	0.0022	2.2
AA072852	soil	2016	UTM83-9	526819	6850551	17-Aug-16	23.7	WHI16000237	0.0081	8.1
AA072853	soil	2016	UTM83-9	526854	6850453	17-Aug-16	10.5	WHI16000237	0.0012	1.2
AA072854	soil	2016	UTM83-9	526920	6850384	17-Aug-16	44.9	WHI16000237	0.0023	2.3
AA072855	soil	2016	UTM83-9	527003	6850327	17-Aug-16	37.7	WHI16000237	0.0093	9.3
AA072856	soil	2016	UTM83-9	527044	6850263	17-Aug-16	31.6	WHI16000237	0.0077	7.7
AA072857	soil	2016	UTM83-9	527022	6850154	17-Aug-16	67.2	WHI16000237	0.0092	9.2
AA072858	soil	2016	UTM83-9	527037	6850064	18-Aug-16	17.9	WHI16000237	0.002	2
AA072859	soil	2016	UTM83-9	527073	6849986	18-Aug-16	2.7	WHI16000237	0.0008	0.8
AA072860	soil	2016	UTM83-9	527086	6849884	18-Aug-16	17	WHI16000237	0.0023	2.3
AA072861	soil	2016	UTM83-9	527108	6849776	18-Aug-16	20.2	WHI16000236	0.0013	1.3
AA072862	soil	2016	UTM83-9	527157	6849694	18-Aug-16	2.3	WHI16000236	0.0006	0.6
AA072863	soil	2016	UTM83-9	527197	6849606	18-Aug-16	11.8	WHI16000236	0.0023	2.3
AA072864	soil	2016	UTM83-9	527259	6849536	18-Aug-16	7.5	WHI16000236	0.0004	0.4
AA072865	soil	2016	UTM83-9	527355	6849500	18-Aug-16	14.5	WHI16000236	0.0002	0.2
AA072866	soil	2016	UTM83-9	527450	6849476	18-Aug-16	29.2	WHI16000236	0.0015	1.5
AA072867	soil	2016	UTM83-9	527543	6849469	18-Aug-16	35.9	WHI16000236	0.0072	7.2
AA072868	soil	2016	UTM83-9	527634	6849432	18-Aug-16	57.3	WHI16000236	0.0404	40.4
AA072869	soil	2016	UTM83-9	527796	6849320	18-Aug-16	54.8	WHI16000236	0.008	8
AA072870	soil	2016	UTM83-9	527703	6849357	18-Aug-16	58.5	WHI16000236	0.0113	11.3
AA072871	soil	2016	UTM83-9	527870	6849258	18-Aug-16	59.2	WHI16000271	0.0095	9.5
AA072872	soil	2016	UTM83-9	527937	6849181	18-Aug-16	80.5	WHI16000271	0.0105	10.5
AA072873	soil	2016	UTM83-9	528021	6849126	18-Aug-16	44.8	WHI16000271	0.0021	2.1
AA072874	soil	2016	UTM83-9	528113	6849061	18-Aug-16	53.9	WHI16000271	0.0055	5.5
AA072875	soil	2016	UTM83-9	528179	6849007	18-Aug-16	25.7	WHI16000271	0.0049	4.9
AA072876	soil	2016	UTM83-9	530155	6846957	17-Aug-16	323.5	WHI16000271	0.0053	5.3
AA072877	soil	2016	UTM83-9	530114	6847005	17-Aug-16	61.2	WHI16000271	0.0009	0.9
AA072878	soil	2016	UTM83-9	530088	6847135	17-Aug-16	367.1	WHI16000271	0.0016	1.6
AA072879	soil	2016	UTM83-9	530023	6847190	17-Aug-16	253.6	WHI16000271	0.0129	12.9
AA072880	soil	2016	UTM83-9	529953	6847277	17-Aug-16	81.9	WHI16000271	0.0084	8.4
AA072881	soil	2016	UTM83-9	529907	6847354	17-Aug-16	90.1	WHI16000236	0.0088	8.8
AA072882	soil	2016	UTM83-9	529871	6847438	17-Aug-16	359.9	WHI16000236	0.0139	13.9
AA072883	soil	2016	UTM83-9	529796	6847479	17-Aug-16	10.2	WHI16000236	0.0012	1.2
AA072884	soil	2016	UTM83-9	529740	6847433	17-Aug-16	6.6	WHI16000236	0.0003	0.3
AA072885	soil	2016	UTM83-9	529652	6847446	17-Aug-16	4.8	WHI16000236	0.0005	0.5
AA072886	soil	2016	UTM83-9	529581	6847492	17-Aug-16	14.4	WHI16000236	0.001	1
AA072887	soil	2016	UTM83-9	529496	6847567	18-Aug-16	10.8	WHI16000236	0.0005	0.5
AA072888	soil	2016	UTM83-9	529458	6847650	18-Aug-16	6.7	WHI16000236	0.0011	1.1
AA072889	soil	2016	UTM83-9	529447	6847743	18-Aug-16	6.2	WHI16000236	0.0001	0.1
AA072890	soil	2016	UTM83-9	529416	6847839	18-Aug-16	1.9	WHI16000236	0.001	1
AA072891	soil	2016	UTM83-9	529334	6847892	18-Aug-16	22.7	WHI16000236	0.0001	0.1
AA072892	soil	2016	UTM83-9	529281	6847985	18-Aug-16	16.9	WHI16000236	0.0032	3.2
AA072893	soil	2016	UTM83-9	529260	6848073	18-Aug-16	27.8	WHI16000236	0.0013	1.3
AA072894	soil	2016	UTM83-9	529216	6848181	18-Aug-16	18.9	WHI16000236	0.0004	0.4
AA072895	soil	2016	UTM83-9	529194	6848258	18-Aug-16	23.9	WHI16000236	0.0024	2.4
AA072896	soil	2016	UTM83-9	529182	6848355	18-Aug-16	28.5	WHI16000236	0.002	2
AA072897	soil	2016	UTM83-9	529148	6848461	18-Aug-16	32.4	WHI16000237	0.0038	3.8
AA072898	soil	2016	UTM83-9	529108	6848556	18-Aug-16	39.6	WHI16000237	0.0051	5.1
AA072899	soil	2016	UTM83-9	529079	6848662	18-Aug-16	45.1	WHI16000237	0.0144	14.4
AA072900	soil	2016	UTM83-9	529019	6848693	18-Aug-16	44.1	WHI16000237	0.0052	5.2
AA072901	soil	2016	UTM83-9	531828	6857063	19-Aug-16	13.7	WHI16000235	0.0013	1.3

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA072902	soil	2016	UTM83-9	531930	6857100	19-Aug-16	3.2	WHI16000235	0.0019	1.9
AA072903	soil	2016	UTM83-9	532020	6857116	19-Aug-16	1.7	WHI16000235	0.0002	0.2
AA072904	soil	2016	UTM83-9	532054	6857212	19-Aug-16	4.8	WHI16000235	0.0023	2.3
AA072905	soil	2016	UTM83-9	532076	6857301	19-Aug-16	2.1	WHI16000235	0.0009	0.9
AA072906	soil	2016	UTM83-9	532091	6857403	19-Aug-16	2.8	WHI16000235	0.0008	0.8
AA072907	soil	2016	UTM83-9	532106	6857493	19-Aug-16	6.4	WHI16000235	0.0019	1.9
AA072908	soil	2016	UTM83-9	532189	6857563	19-Aug-16	5.7	WHI16000235	0.002	2
AA072909	soil	2016	UTM83-9	532239	6857538	19-Aug-16	8.7	WHI16000235	0.0008	0.8
AA072910	soil	2016	UTM83-9	532250	6857434	19-Aug-16	3.7	WHI16000235	0.0001	0.1
AA072911	soil	2016	UTM83-9	532224	6857351	19-Aug-16	8.1	WHI16000271	0.0006	0.6
AA072912	soil	2016	UTM83-9	532211	6857283	19-Aug-16	7.1	WHI16000271	0.0001	0.1
AA072913	soil	2016	UTM83-9	532237	6857182	19-Aug-16	4.7	WHI16000271	0.0001	0.1
AA072914	soil	2016	UTM83-9	532235	6857078	19-Aug-16	7	WHI16000271	0.0003	0.3
AA072915	soil	2016	UTM83-9	532202	6856979	19-Aug-16	8.5	WHI16000271	0.0025	2.5
AA072916	soil	2016	UTM83-9	532107	6856987	19-Aug-16	13.4	WHI16000271	0.0021	2.1
AA072917	soil	2016	UTM83-9	532010	6856999	19-Aug-16	5	WHI16000271	0.0022	2.2
AA072918	soil	2016	UTM83-9	531953	6857007	19-Aug-16	3.4	WHI16000271	0.0029	2.9
AA072919	soil	2016	UTM83-9	528214	6848873	20-Aug-16	40.5	WHI16000271	0.0037	3.7
AA072920	soil	2016	UTM83-9	528153	6848835	20-Aug-16	28.8	WHI16000271	0.0047	4.7
AA072921	soil	2016	UTM83-9	528143	6848670	20-Aug-16	12.1	WHI16000272	0.0036	3.6
AA072922	soil	2016	UTM83-9	528214	6848595	20-Aug-16	27.4	WHI16000272	0.0061	6.1
AA072923	soil	2016	UTM83-9	528294	6848529	20-Aug-16	18	WHI16000272	0.0015	1.5
AA072924	soil	2016	UTM83-9	528340	6848468	20-Aug-16	15.4	WHI16000272	0.0018	1.8
AA072925	soil	2016	UTM83-9	528452	6848291	20-Aug-16	2.4	WHI16000272	0.001	1
AA072926	soil	2016	UTM83-9	528494	6848211	20-Aug-16	10.2	WHI16000272	0.0017	1.7
AA072927	soil	2016	UTM83-9	528546	6848115	20-Aug-16	26.2	WHI16000272	0.0014	1.4
AA072928	soil	2016	UTM83-9	528613	6848040	20-Aug-16	15.1	WHI16000272	0.0015	1.5
AA072929	soil	2016	UTM83-9	528675	6847965	20-Aug-16	2.6	WHI16000272	0.0001	0.1
AA072930	soil	2016	UTM83-9	528753	6847886	20-Aug-16	7.6	WHI16000272	0.002	2
AA072931	soil	2016	UTM83-9	528801	6847820	20-Aug-16	11.4	WHI16000272	0.0023	2.3
AA072932	soil	2016	UTM83-9	528855	6847749	20-Aug-16	12.7	WHI16000272	0.0009	0.9
AA072933	soil	2016	UTM83-9	528913	6847700	20-Aug-16	21.1	WHI16000272	0.0041	4.1
AA072934	soil	2016	UTM83-9	528956	6847616	20-Aug-16	29.5	WHI16000272	0.0025	2.5
AA072935	soil	2016	UTM83-9	528414	6847380	20-Aug-16	23.5	WHI16000272	0.0032	3.2
AA072936	soil	2016	UTM83-9	528477	6847300	20-Aug-16	15	WHI16000272	0.0015	1.5
AA072937	soil	2016	UTM83-9	528537	6847222	20-Aug-16	10.8	WHI16000272	0.0053	5.3
AA072938	soil	2016	UTM83-9	528608	6847145	20-Aug-16	20.3	WHI16000272	0.0016	1.6
AA072939	soil	2016	UTM83-9	535396	6851891	21-Aug-16	5.8	WHI16000272	0.0019	1.9
AA072940	soil	2016	UTM83-9	535400	6851983	21-Aug-16	7.7	WHI16000272	0.0006	0.6
AA072941	soil	2016	UTM83-9	535394	6852085	21-Aug-16	5.4	WHI16000272	0.001	1
AA072942	soil	2016	UTM83-9	535428	6852173	21-Aug-16	5.6	WHI16000272	0.0009	0.9
AA072943	soil	2016	UTM83-9	535468	6852262	21-Aug-16	1.4	WHI16000272	0.0006	0.6
AA072944	soil	2016	UTM83-9	535505	6852356	21-Aug-16	5	WHI16000272	0.0001	0.1
AA072945	soil	2016	UTM83-9	535548	6852443	21-Aug-16	4.2	WHI16000272	0.0006	0.6
AA072946	soil	2016	UTM83-9	535595	6852531	21-Aug-16	3.1	WHI16000272	0.0009	0.9
AA072947	soil	2016	UTM83-9	535637	6852623	21-Aug-16	15.4	WHI16000272	0.0013	1.3
AA072948	soil	2016	UTM83-9	535641	6852721	21-Aug-16	10	WHI16000272	0.0005	0.5
AA072949	soil	2016	UTM83-9	535565	6852715	21-Aug-16	21.5	WHI16000272	0.0016	1.6
AA072950	soil	2016	UTM83-9	535454	6852651	21-Aug-16	31.4	WHI16000272	0.0013	1.3
AA072951	soil	2016	UTM83-9	527329	6850831	21-Aug-16	27.2	WHI16000236	0.0019	1.9
AA072952	soil	2016	UTM83-9	527386	6850752	21-Aug-16	27.7	WHI16000236	0.002	2
AA072953	soil	2016	UTM83-9	527474	6850696	21-Aug-16	62.5	WHI16000236	0.0025	2.5
AA072954	soil	2016	UTM83-9	527580	6850643	21-Aug-16	92.7	WHI16000236	0.0037	3.7
AA072955	soil	2016	UTM83-9	527653	6850633	21-Aug-16	142.8	WHI16000236	0.0036	3.6
AA072956	soil	2016	UTM83-9	527725	6850560	21-Aug-16	46.3	WHI16000236	0.0029	2.9
AA072957	soil	2016	UTM83-9	527721	6850451	21-Aug-16	58.3	WHI16000236	0.0057	5.7
AA072958	soil	2016	UTM83-9	527727	6850356	21-Aug-16	43.4	WHI16000236	0.0039	3.9
AA072959	soil	2016	UTM83-9	527780	6850248	21-Aug-16	31.4	WHI16000236	0.0022	2.2
AA072960	soil	2016	UTM83-9	527782	6850246	21-Aug-16	25.3	WHI16000236	0.0011	1.1
AA072961	soil	2016	UTM83-9	527785	6850151	21-Aug-16	37.2	WHI16000236	0.0026	2.6
AA072962	soil	2016	UTM83-9	527783	6850042	21-Aug-16	62.6	WHI16000236	0.0032	3.2

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA072963	soil	2016	UTM83-9	527836	6849960	21-Aug-16	80.4	WHI16000236	0.0029	2.9
AA072964	soil	2016	UTM83-9	527890	6849871	21-Aug-16	80.8	WHI16000236	0.0084	8.4
AA072965	soil	2016	UTM83-9	527930	6849788	21-Aug-16	14.9	WHI16000236	0.0006	0.6
AA072966	soil	2016	UTM83-9	527999	6849702	21-Aug-16	23.6	WHI16000236	0.0031	3.1
AA072967	soil	2016	UTM83-9	528071	6849644	21-Aug-16	20.2	WHI16000236	0.0007	0.7
AA072968	soil	2016	UTM83-9	528077	6849707	21-Aug-16	295.4	WHI16000236	0.0532	53.2
AA072969	soil	2016	UTM83-9	528137	6849649	21-Aug-16	443.8	WHI16000236	0.1493	149.3
AA072970	soil	2016	UTM83-9	528209	6849555	21-Aug-16	18.5	WHI16000236	0.0019	1.9
AA072971	soil	2016	UTM83-9	528281	6849521	21-Aug-16	30.3	WHI16000236	0.0041	4.1
AA072972	soil	2016	UTM83-9	528427	6849379	21-Aug-16	31.6	WHI16000236	0.0037	3.7
AA072973	soil	2016	UTM83-9	528502	6849320	21-Aug-16	124.4	WHI16000236	0.0029	2.9
AA072974	soil	2016	UTM83-9	528592	6849302	21-Aug-16	46.9	WHI16000236	0.0048	4.8
AA072975	soil	2016	UTM83-9	528697	6849251	21-Aug-16	29.4	WHI16000238	0.001	1
AA072976	soil	2016	UTM83-9	528775	6849226	21-Aug-16	31.2	WHI16000238	0.002	2
AA072977	soil	2016	UTM83-9	528886	6849196	21-Aug-16	56.6	WHI16000238	0.009	9
AA072978	soil	2016	UTM83-9	528972	6849175	21-Aug-16	58.5	WHI16000238	0.0114	11.4
AA072979	soil	2016	UTM83-9	529075	6849172	21-Aug-16	35.4	WHI16000238	0.0064	6.4
AA072980	soil	2016	UTM83-9	529155	6849156	21-Aug-16	36.9	WHI16000238	0.0076	7.6
AA072981	soil	2016	UTM83-9	534714	6850012	22-Aug-16	7	WHI16000272	0.0001	0.1
AA072982	soil	2016	UTM83-9	534731	6849906	22-Aug-16	8.2	WHI16000272	0.0001	0.1
AA072983	soil	2016	UTM83-9	534719	6849805	22-Aug-16	6.4	WHI16000272	0.0001	0.1
AA072984	soil	2016	UTM83-9	534703	6849715	22-Aug-16	5.1	WHI16000272	0.0001	0.1
AA072985	soil	2016	UTM83-9	534652	6849589	22-Aug-16	7.2	WHI16000272	0.0011	1.1
AA072986	soil	2016	UTM83-9	534742	6849641	22-Aug-16	2.7	WHI16000272	0.0001	0.1
AA072987	soil	2016	UTM83-9	534823	6849688	22-Aug-16	8.7	WHI16000272	0.0001	0.1
AA072988	soil	2016	UTM83-9	534914	6849741	22-Aug-16	6.8	WHI16000272	0.0023	2.3
AA072989	soil	2016	UTM83-9	535006	6849791	22-Aug-16	12.5	WHI16000272	0.0025	2.5
AA072990	soil	2016	UTM83-9	535100	6849819	22-Aug-16	17.7	WHI16000272	0.002	2
AA072991	soil	2016	UTM83-9	535187	6849831	22-Aug-16	16.5	WHI16000272	0.0025	2.5
AA072992	soil	2016	UTM83-9	535292	6849819	22-Aug-16	7.9	WHI16000272	0.0009	0.9
AA072993	soil	2016	UTM83-9	535395	6849815	22-Aug-16	7	WHI16000272	0.0038	3.8
AA072994	soil	2016	UTM83-9	535497	6849814	22-Aug-16	9.3	WHI16000272	0.0018	1.8
AA072995	soil	2016	UTM83-9	535595	6849807	22-Aug-16	10.4	WHI16000272	0.0022	2.2
AA072996	soil	2016	UTM83-9	535692	6849802	22-Aug-16	10.4	WHI16000272	0.0023	2.3
AA072997	soil	2016	UTM83-9	535790	6849808	22-Aug-16	6.7	WHI16000272	0.0006	0.6
AA072998	soil	2016	UTM83-9	535885	6849838	22-Aug-16	8	WHI16000272	0.0008	0.8
AA072999	soil	2016	UTM83-9	535885	6849838	22-Aug-16	8.2	WHI16000272	0.0017	1.7
AA073000	soil	2016	UTM83-9	535986	6849880	22-Aug-16	23.1	WHI16000272	0.002	2
AA073501	soil	2016	UTM83-9	527127	6849204	18-Aug-16	23	WHI16000275	0.0018	1.8
AA073502	soil	2016	UTM83-9	527225	6849139	18-Aug-16	20.6	WHI16000275	0.0013	1.3
AA073503	soil	2016	UTM83-9	527289	6849089	18-Aug-16	20.2	WHI16000275	0.0023	2.3
AA073504	soil	2016	UTM83-9	527342	6849026	18-Aug-16	24.8	WHI16000275	0.0026	2.6
AA073505	soil	2016	UTM83-9	527424	6848949	18-Aug-16	28.6	WHI16000275	0.0042	4.2
AA073506	soil	2016	UTM83-9	527503	6848889	18-Aug-16	25.6	WHI16000275	0.0031	3.1
AA073507	soil	2016	UTM83-9	530297	6857593	19-Aug-16	9.2	WHI16000275	0.0013	1.3
AA073508	soil	2016	UTM83-9	530390	6857628	19-Aug-16	6.9	WHI16000275	0.0003	0.3
AA073509	soil	2016	UTM83-9	530482	6857671	19-Aug-16	10.9	WHI16000275	0.0025	2.5
AA073510	soil	2016	UTM83-9	530560	6857733	19-Aug-16	26.1	WHI16000272	0.0037	3.7
AA073511	soil	2016	UTM83-9	530634	6857788	19-Aug-16	2.7	WHI16000272	0.0012	1.2
AA073512	soil	2016	UTM83-9	530727	6857840	19-Aug-16	N/A	WHI16000272	N/A	N/A
AA073513	soil	2016	UTM83-9	530803	6857891	19-Aug-16	17.9	WHI16000272	0.0034	3.4
AA073514	soil	2016	UTM83-9	530905	6857915	19-Aug-16	8.5	WHI16000272	0.0023	2.3
AA073515	soil	2016	UTM83-9	531002	6857931	19-Aug-16	15.5	WHI16000272	0.0023	2.3
AA073516	soil	2016	UTM83-9	531106	6857932	19-Aug-16	19.5	WHI16000272	0.0026	2.6
AA073517	soil	2016	UTM83-9	531201	6857925	19-Aug-16	25.6	WHI16000272	0.0029	2.9
AA073518	soil	2016	UTM83-9	531301	6857934	19-Aug-16	5.6	WHI16000272	0.0027	2.7
AA073519	soil	2016	UTM83-9	531397	6857992	19-Aug-16	8.7	WHI16000272	0.0023	2.3
AA073520	soil	2016	UTM83-9	531470	6858067	19-Aug-16	29.8	WHI16000272	0.0023	2.3
AA073521	soil	2016	UTM83-9	531546	6858081	19-Aug-16	8.6	WHI16000272	0.0013	1.3
AA073522	soil	2016	UTM83-9	531656	6858105	19-Aug-16	10.9	WHI16000272	0.0025	2.5
AA073523	soil	2016	UTM83-9	531754	6858124	19-Aug-16	8.7	WHI16000272	0.0019	1.9

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA073524	soil	2016	UTM83-9	531836	6858140	19-Aug-16	11	WHI16000272	0.0021	2.1
AA073525	soil	2016	UTM83-9	531944	6858150	19-Aug-16	3.5	WHI16000272	0.0033	3.3
AA073526	soil	2016	UTM83-9	532021	6858178	19-Aug-16	21.7	WHI16000272	0.0023	2.3
AA073527	soil	2016	UTM83-9	532135	6858172	19-Aug-16	7	WHI16000272	0.0018	1.8
AA073528	soil	2016	UTM83-9	532214	6858222	19-Aug-16	4	WHI16000272	0.0025	2.5
AA073529	soil	2016	UTM83-9	532397	6858221	19-Aug-16	19.8	WHI16000272	0.0085	8.5
AA073530	soil	2016	UTM83-9	532475	6858259	19-Aug-16	1.4	WHI16000272	0.0025	2.5
AA073531	soil	2016	UTM83-9	532593	6858292	19-Aug-16	232.7	WHI16000271	0.0608	60.8
AA073532	soil	2016	UTM83-9	534699	6851237	21-Aug-16	5.9	WHI16000271	0.0003	0.3
AA073533	soil	2016	UTM83-9	534594	6851242	21-Aug-16	6.1	WHI16000271	0.0014	1.4
AA073534	soil	2016	UTM83-9	534491	6851240	21-Aug-16	6.6	WHI16000271	0.0013	1.3
AA073535	soil	2016	UTM83-9	534370	6851232	21-Aug-16	8.1	WHI16000271	0.0016	1.6
AA073536	soil	2016	UTM83-9	534284	6851232	21-Aug-16	4.8	WHI16000271	0.0005	0.5
AA073537	soil	2016	UTM83-9	534183	6851220	21-Aug-16	7.6	WHI16000271	0.0029	2.9
AA073538	soil	2016	UTM83-9	534090	6851249	21-Aug-16	6.9	WHI16000271	0.0009	0.9
AA073539	soil	2016	UTM83-9	533988	6851256	21-Aug-16	5	WHI16000271	0.0006	0.6
AA073540	soil	2016	UTM83-9	533876	6851286	21-Aug-16	11.3	WHI16000271	0.0009	0.9
AA073541	soil	2016	UTM83-9	533831	6851331	21-Aug-16	7.7	WHI16000271	0.0016	1.6
AA073542	soil	2016	UTM83-9	533806	6851462	21-Aug-16	6.5	WHI16000271	0.0007	0.7
AA073543	soil	2016	UTM83-9	533770	6851520	21-Aug-16	5.8	WHI16000271	0.0008	0.8
AA073544	soil	2016	UTM83-9	533739	6851613	21-Aug-16	8.3	WHI16000271	0.0018	1.8
AA073545	soil	2016	UTM83-9	533739	6851740	21-Aug-16	8.1	WHI16000271	0.0015	1.5
AA073546	soil	2016	UTM83-9	533744	6851942	21-Aug-16	9.1	WHI16000271	0.002	2
AA073547	soil	2016	UTM83-9	533771	6852019	21-Aug-16	5.2	WHI16000271	0.0016	1.6
AA073548	soil	2016	UTM83-9	533771	6852019	21-Aug-16	4.6	WHI16000271	0.0011	1.1
AA073549	soil	2016	UTM83-9	533803	6852109	21-Aug-16	13.1	WHI16000271	0.0011	1.1
AA073550	soil	2016	UTM83-9	533838	6852198	21-Aug-16	11.7	WHI16000271	0.0015	1.5
AA073551	soil	2016	UTM83-9	527404	6852058	16-Aug-16	60.7	WHI16000272	0.0038	3.8
AA073552	soil	2016	UTM83-9	527453	6852058	16-Aug-16	71.6	WHI16000272	0.0098	9.8
AA073553	soil	2016	UTM83-9	527505	6852061	16-Aug-16	43.6	WHI16000272	0.0077	7.7
AA073554	soil	2016	UTM83-9	527545	6852055	16-Aug-16	155.9	WHI16000272	0.0097	9.7
AA073555	soil	2016	UTM83-9	527602	6852059	16-Aug-16	114.8	WHI16000272	0.0116	11.6
AA073556	soil	2016	UTM83-9	527648	6852054	16-Aug-16	21.4	WHI16000272	0.0037	3.7
AA073557	soil	2016	UTM83-9	527655	6851959	16-Aug-16	429.5	WHI16000272	0.0684	68.4
AA073558	soil	2016	UTM83-9	527600	6851957	16-Aug-16	415.7	WHI16000272	0.0417	41.7
AA073559	soil	2016	UTM83-9	527557	6851963	16-Aug-16	359.9	WHI16000272	0.0149	14.9
AA073560	soil	2016	UTM83-9	528645	6849616	17-Aug-16	259.4	WHI16000272	0.0779	77.9
AA073561	soil	2016	UTM83-9	528709	6849555	17-Aug-16	50.1	WHI16000271	0.0078	7.8
AA073562	soil	2016	UTM83-9	528801	6849505	17-Aug-16	49.8	WHI16000271	0.0018	1.8
AA073563	soil	2016	UTM83-9	528891	6849512	17-Aug-16	42.8	WHI16000271	0.0027	2.7
AA073564	soil	2016	UTM83-9	528970	6849540	17-Aug-16	39.1	WHI16000271	0.0069	6.9
AA073565	soil	2016	UTM83-9	529076	6849520	17-Aug-16	36.1	WHI16000271	0.0023	2.3
AA073566	soil	2016	UTM83-9	529177	6849541	17-Aug-16	39.9	WHI16000271	0.0022	2.2
AA073567	soil	2016	UTM83-9	529264	6849565	17-Aug-16	13.5	WHI16000271	0.0004	0.4
AA073568	soil	2016	UTM83-9	529371	6849561	17-Aug-16	55	WHI16000271	0.0012	1.2
AA073569	soil	2016	UTM83-9	529455	6849558	17-Aug-16	11	WHI16000271	0.0003	0.3
AA073570	soil	2016	UTM83-9	529551	6849561	17-Aug-16	15.8	WHI16000271	0.0032	3.2
AA073571	soil	2016	UTM83-9	529649	6849584	17-Aug-16	12.6	WHI16000272	0.0013	1.3
AA073572	soil	2016	UTM83-9	529739	6849600	17-Aug-16	24.8	WHI16000272	0.0079	7.9
AA073573	soil	2016	UTM83-9	529844	6849651	17-Aug-16	11.7	WHI16000272	0.0012	1.2
AA073574	soil	2016	UTM83-9	529860	6849672	17-Aug-16	0.3	WHI16000272	0.0001	0.1
AA073575	soil	2016	UTM83-9	526102	6851343	18-Aug-16	17.9	WHI16000272	0.0055	5.5
AA073576	soil	2016	UTM83-9	526132	6851257	18-Aug-16	278.4	WHI16000272	0.0082	8.2
AA073577	soil	2016	UTM83-9	526163	6851157	18-Aug-16	42	WHI16000272	0.0048	4.8
AA073578	soil	2016	UTM83-9	526147	6851081	18-Aug-16	19.3	WHI16000272	0.0016	1.6
AA073579	soil	2016	UTM83-9	526135	6850993	18-Aug-16	54	WHI16000272	0.0015	1.5
AA073580	soil	2016	UTM83-9	526161	6850907	18-Aug-16	16.8	WHI16000272	0.0018	1.8
AA073581	soil	2016	UTM83-9	526201	6850815	18-Aug-16	39.1	WHI16000272	0.0013	1.3
AA073582	soil	2016	UTM83-9	526228	6850747	18-Aug-16	18.5	WHI16000272	0.0001	0.1
AA073583	soil	2016	UTM83-9	526256	6850617	18-Aug-16	15.9	WHI16000272	0.0007	0.7
AA073584	soil	2016	UTM83-9	526312	6850543	18-Aug-16	36.2	WHI16000272	0.0004	0.4

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA073585	soil	2016	UTM83-9	526328	6850458	18-Aug-16	17.7	WHI16000272	0.001	1
AA073586	soil	2016	UTM83-9	526313	6850362	18-Aug-16	25.3	WHI16000272	0.0013	1.3
AA073587	soil	2016	UTM83-9	526373	6850294	18-Aug-16	14	WHI16000272	0.0072	7.2
AA073588	soil	2016	UTM83-9	526418	6850199	18-Aug-16	24.2	WHI16000272	0.002	2
AA073589	soil	2016	UTM83-9	526440	6850095	18-Aug-16	23	WHI16000272	0.0032	3.2
AA073590	soil	2016	UTM83-9	526560	6849976	18-Aug-16	42.5	WHI16000272	0.0216	21.6
AA073591	soil	2016	UTM83-9	526598	6849878	18-Aug-16	45	WHI16000272	0.018	18
AA073592	soil	2016	UTM83-9	526659	6849803	18-Aug-16	23.1	WHI16000272	0.0032	3.2
AA073593	soil	2016	UTM83-9	526708	6849714	18-Aug-16	22	WHI16000272	0.0025	2.5
AA073594	soil	2016	UTM83-9	526707	6849716	18-Aug-16	24.5	WHI16000272	0.0055	5.5
AA073595	soil	2016	UTM83-9	526757	6849633	18-Aug-16	29.7	WHI16000272	0.0034	3.4
AA073596	soil	2016	UTM83-9	526808	6849567	18-Aug-16	23.6	WHI16000272	0.0057	5.7
AA073597	soil	2016	UTM83-9	526830	6849474	18-Aug-16	28.1	WHI16000272	0.0009	0.9
AA073598	soil	2016	UTM83-9	526899	6849371	18-Aug-16	7.1	WHI16000272	0.0003	0.3
AA073599	soil	2016	UTM83-9	526977	6849311	18-Aug-16	11.8	WHI16000272	0.0009	0.9
AA073600	soil	2016	UTM83-9	527047	6849255	18-Aug-16	11.4	WHI16000272	0.0003	0.3
AA073601	soil	2016	UTM83-9	528975	6848820	18-Aug-16	42.1	WHI16000271	0.0018	1.8
AA073602	soil	2016	UTM83-9	528974	6848890	18-Aug-16	36.9	WHI16000271	0.0024	2.4
AA073603	soil	2016	UTM83-9	529024	6848960	18-Aug-16	12.8	WHI16000271	0.0032	3.2
AA073604	soil	2016	UTM83-9	529119	6848993	18-Aug-16	52.2	WHI16000271	0.0021	2.1
AA073605	soil	2016	UTM83-9	529188	6849023	18-Aug-16	40.6	WHI16000271	0.0012	1.2
AA073606	soil	2016	UTM83-9	529270	6849092	18-Aug-16	42.2	WHI16000271	0.0049	4.9
AA073607	soil	2016	UTM83-9	531319	6858289	19-Aug-16	5.9	WHI16000271	0.0018	1.8
AA073608	soil	2016	UTM83-9	531319	6858289	19-Aug-16	7.4	WHI16000271	0.0015	1.5
AA073609	soil	2016	UTM83-9	531414	6858265	19-Aug-16	11	WHI16000271	0.0016	1.6
AA073610	soil	2016	UTM83-9	533862	6852307	21-Aug-16	11.5	WHI16000271	0.0016	1.6
AA073611	soil	2016	UTM83-9	533900	6852407	21-Aug-16	21.3	WHI16000271	0.0006	0.6
AA073612	soil	2016	UTM83-9	533925	6852479	21-Aug-16	4.7	WHI16000271	0.0004	0.4
AA073613	soil	2016	UTM83-9	533981	6852564	21-Aug-16	7.9	WHI16000271	0.0018	1.8
AA073614	soil	2016	UTM83-9	534034	6852659	21-Aug-16	7.2	WHI16000271	0.0018	1.8
AA073615	soil	2016	UTM83-9	534079	6852761	21-Aug-16	0.9	WHI16000271	0.0011	1.1
AA073616	soil	2016	UTM83-9	534107	6852837	21-Aug-16	2.2	WHI16000271	0.0002	0.2
AA073617	soil	2016	UTM83-9	534140	6852932	21-Aug-16	2.7	WHI16000271	0.0016	1.6
AA073618	soil	2016	UTM83-9	534172	6853033	21-Aug-16	9.6	WHI16000271	0.0026	2.6
AA073619	soil	2016	UTM83-9	534216	6853134	21-Aug-16	9.3	WHI16000271	0.0008	0.8
AA073620	soil	2016	UTM83-9	534232	6853222	21-Aug-16	6.3	WHI16000271	0.001	1
AA073621	soil	2016	UTM83-9	534247	6853319	21-Aug-16	10.6	WHI16000273	0.0012	1.2
AA073622	soil	2016	UTM83-9	534255	6853435	21-Aug-16	8.9	WHI16000273	0.001	1
AA073623	soil	2016	UTM83-9	534265	6853526	21-Aug-16	8.5	WHI16000273	0.0007	0.7
AA073624	soil	2016	UTM83-9	534282	6853620	21-Aug-16	10.5	WHI16000273	0.0001	0.1
AA073625	soil	2016	UTM83-9	534628	6847853	22-Aug-16	11.5	WHI16000273	0.0017	1.7
AA073626	soil	2016	UTM83-9	534731	6847876	22-Aug-16	6.5	WHI16000273	0.0014	1.4
AA073627	soil	2016	UTM83-9	535237	6845070	27-Aug-16	138.2	WHI16000273	0.0773	77.3
AA073628	soil	2016	UTM83-9	535211	6845030	27-Aug-16	32.7	WHI16000273	0.0031	3.1
AA073629	soil	2016	UTM83-9	535825	6845521	27-Aug-16	134.9	WHI16000273	0.0077	7.7
AA073630	soil	2016	UTM83-9	535844	6845555	27-Aug-16	178.1	WHI16000273	0.0068	6.8
AA073631	soil	2016	UTM83-9	535881	6845587	27-Aug-16	169.7	WHI16000274	0.0037	3.7
AA073632	soil	2016	UTM83-9	535909	6845629	27-Aug-16	126.9	WHI16000274	0.0121	12.1
AA073633	soil	2016	UTM83-9	535941	6845666	27-Aug-16	211.1	WHI16000274	0.0223	22.3
AA073634	soil	2016	UTM83-9	535974	6845700	27-Aug-16	51.3	WHI16000274	0.0143	14.3
AA073636	soil	2016	UTM83-9	531531	6858303	19-Aug-16	11.3	WHI16000274	0.0001	0.1
AA073637	soil	2016	UTM83-9	531614	6858308	19-Aug-16	6.3	WHI16000274	0.0013	1.3
AA073638	soil	2016	UTM83-9	531699	6858326	19-Aug-16	8.5	WHI16000274	0.0008	0.8
AA073639	soil	2016	UTM83-9	532022	6858359	19-Aug-16	5.4	WHI16000274	0.0008	0.8
AA073640	soil	2016	UTM83-9	532085	6858377	19-Aug-16	4.4	WHI16000274	0.0004	0.4
AA073641	soil	2016	UTM83-9	532212	6858376	19-Aug-16	28	WHI16000271	0.0056	5.6
AA073642	soil	2016	UTM83-9	532303	6858399	19-Aug-16	10.8	WHI16000271	0.0025	2.5
AA073643	soil	2016	UTM83-9	532399	6858415	19-Aug-16	4.1	WHI16000271	0.0064	6.4
AA073644	soil	2016	UTM83-9	532483	6858443	19-Aug-16	8.6	WHI16000271	0.0067	6.7
AA073645	soil	2016	UTM83-9	532583	6858437	19-Aug-16	8.7	WHI16000271	0.0034	3.4
AA073646	soil	2016	UTM83-9	527573	6848820	20-Aug-16	19.6	WHI16000271	0.0024	2.4

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA073647	soil	2016	UTM83-9	527666	6848761	20-Aug-16	19.4	WHI16000271	0.0034	3.4
AA073648	soil	2016	UTM83-9	527739	6848711	20-Aug-16	31	WHI16000271	0.0013	1.3
AA073649	soil	2016	UTM83-9	527791	6848713	20-Aug-16	31.2	WHI16000271	0.0018	1.8
AA073650	soil	2016	UTM83-9	527735	6848536	20-Aug-16	24.8	WHI16000271	0.0007	0.7
AA073651	soil	2016	UTM83-9	528232	6848939	18-Aug-16	38.9	WHI16000235	0.0014	1.4
AA073652	soil	2016	UTM83-9	530466	6857272	19-Aug-16	7.6	WHI16000235	0.0001	0.1
AA073653	soil	2016	UTM83-9	530640	6857482	19-Aug-16	12.7	WHI16000235	0.0008	0.8
AA073654	soil	2016	UTM83-9	530718	6857532	19-Aug-16	37	WHI16000235	0.0033	3.3
AA073655	soil	2016	UTM83-9	530824	6857579	19-Aug-16	10	WHI16000235	0.0006	0.6
AA073656	soil	2016	UTM83-9	530867	6857618	19-Aug-16	15.8	WHI16000235	0.0023	2.3
AA073657	soil	2016	UTM83-9	530973	6857663	19-Aug-16	10.8	WHI16000235	0.0013	1.3
AA073658	soil	2016	UTM83-9	531059	6857688	19-Aug-16	12.3	WHI16000235	0.0007	0.7
AA073659	soil	2016	UTM83-9	531168	6857674	19-Aug-16	18.2	WHI16000235	0.0048	4.8
AA073660	soil	2016	UTM83-9	531258	6857670	19-Aug-16	22.6	WHI16000235	0.0001	0.1
AA073661	soil	2016	UTM83-9	531354	6857650	19-Aug-16	13.3	WHI16000236	0.0042	4.2
AA073662	soil	2016	UTM83-9	531447	6857597	19-Aug-16	21.6	WHI16000236	0.0028	2.8
AA073663	soil	2016	UTM83-9	531542	6857568	19-Aug-16	28.7	WHI16000236	0.0047	4.7
AA073664	soil	2016	UTM83-9	531627	6857563	19-Aug-16	996	WHI16000236	0.1667	166.7
AA073665	soil	2016	UTM83-9	531716	6857515	19-Aug-16	6.7	WHI16000236	0.0001	0.1
AA073666	soil	2016	UTM83-9	531716	6857515	19-Aug-16	7	WHI16000236	0.0001	0.1
AA073667	soil	2016	UTM83-9	531753	6857600	19-Aug-16	1.7	WHI16000236	0.0012	1.2
AA073668	soil	2016	UTM83-9	531780	6857697	19-Aug-16	5.7	WHI16000236	0.0016	1.6
AA073669	soil	2016	UTM83-9	531818	6857875	19-Aug-16	7.1	WHI16000236	0.0017	1.7
AA073670	soil	2016	UTM83-9	531906	6857896	19-Aug-16	7.9	WHI16000236	0.0005	0.5
AA073671	soil	2016	UTM83-9	531963	6857961	19-Aug-16	1.7	WHI16000271	0.0038	3.8
AA073672	soil	2016	UTM83-9	532073	6857947	19-Aug-16	41.6	WHI16000271	0.0109	10.9
AA073673	soil	2016	UTM83-9	532172	6857943	19-Aug-16	1.4	WHI16000271	0.0004	0.4
AA073674	soil	2016	UTM83-9	532259	6857953	19-Aug-16	3.8	WHI16000271	0.0006	0.6
AA073675	soil	2016	UTM83-9	530620	6857382	19-Aug-16	5.5	WHI16000271	0.0006	0.6
AA073676	soil	2016	UTM83-9	531783	6857787	19-Aug-16	2.2	WHI16000271	0.0007	0.7
AA073677	soil	2016	UTM83-9	530553	6857325	19-Aug-16	5	WHI16000271	0.0006	0.6
AA073678	soil	2016	UTM83-9	529004	6847529	20-Aug-16	29.5	WHI16000271	0.0006	0.6
AA073679	soil	2016	UTM83-9	529067	6847430	20-Aug-16	26.9	WHI16000271	0.0026	2.6
AA073680	soil	2016	UTM83-9	529109	6847343	20-Aug-16	11.7	WHI16000271	0.0009	0.9
AA073681	soil	2016	UTM83-9	529162	6847266	20-Aug-16	7.4	WHI16000271	0.001	1
AA073682	soil	2016	UTM83-9	529203	6847191	20-Aug-16	16.9	WHI16000271	0.0015	1.5
AA073683	soil	2016	UTM83-9	529268	6847096	20-Aug-16	12.9	WHI16000271	0.0008	0.8
AA073684	soil	2016	UTM83-9	529321	6847017	20-Aug-16	16.7	WHI16000271	0.002	2
AA073685	soil	2016	UTM83-9	529381	6846937	20-Aug-16	11.6	WHI16000271	0.0004	0.4
AA073686	soil	2016	UTM83-9	529441	6846851	20-Aug-16	10.8	WHI16000271	0.0009	0.9
AA073687	soil	2016	UTM83-9	529120	6846545	20-Aug-16	12.4	WHI16000271	0.0021	2.1
AA073688	soil	2016	UTM83-9	529049	6846620	20-Aug-16	8.5	WHI16000271	0.0022	2.2
AA073689	soil	2016	UTM83-9	528990	6846690	20-Aug-16	14	WHI16000271	0.0127	12.7
AA073690	soil	2016	UTM83-9	528921	6846757	20-Aug-16	18.2	WHI16000271	0.0008	0.8
AA073691	soil	2016	UTM83-9	528867	6846849	20-Aug-16	11.9	WHI16000275	0.0001	0.1
AA073692	soil	2016	UTM83-9	528821	6846926	20-Aug-16	16.6	WHI16000275	0.0028	2.8
AA073693	soil	2016	UTM83-9	528759	6847003	20-Aug-16	12.9	WHI16000275	0.0001	0.1
AA073694	soil	2016	UTM83-9	528675	6847075	20-Aug-16	15.9	WHI16000275	0.0001	0.1
AA073695	soil	2016	UTM83-9	534697	6850294	21-Aug-16	6.1	WHI16000275	0.0007	0.7
AA073696	soil	2016	UTM83-9	534697	6850204	21-Aug-16	7	WHI16000275	0.0001	0.1
AA073697	soil	2016	UTM83-9	534701	6850108	21-Aug-16	8.8	WHI16000275	0.0001	0.1
AA073698	soil	2016	UTM83-9	534773	6850367	21-Aug-16	7.1	WHI16000275	0.0003	0.3
AA073699	soil	2016	UTM83-9	534838	6850453	21-Aug-16	5.5	WHI16000275	0.0001	0.1
AA073700	soil	2016	UTM83-9	534929	6850471	21-Aug-16	11.9	WHI16000275	0.0003	0.3
AA073701	soil	2016	UTM83-9	528348	6847451	20-Aug-16	13.6	WHI16000271	0.001	1
AA073702	soil	2016	UTM83-9	534812	6851281	21-Aug-16	1.3	WHI16000271	0.0005	0.5
AA073703	soil	2016	UTM83-9	534782	6851221	21-Aug-16	7.6	WHI16000271	0.0014	1.4
AA073704	soil	2016	UTM83-9	533611	6854341	23-Aug-16	10.3	WHI16000271	0.0015	1.5
AA073705	soil	2016	UTM83-9	533597	6854406	23-Aug-16	12.2	WHI16000271	0.0015	1.5
AA073706	soil	2016	UTM83-9	533563	6854498	23-Aug-16	8.1	WHI16000271	0.0008	0.8
AA073707	soil	2016	UTM83-9	533572	6854610	23-Aug-16	5.1	WHI16000271	0.001	1

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA073708	soil	2016	UTM83-9	533579	6854714	23-Aug-16	3.7	WHI16000271	0.0009	0.9
AA073709	soil	2016	UTM83-9	533585	6854816	23-Aug-16	8.6	WHI16000271	0.0012	1.2
AA073710	soil	2016	UTM83-9	533583	6854914	23-Aug-16	6.5	WHI16000271	0.0008	0.8
AA073711	soil	2016	UTM83-9	533595	6855007	23-Aug-16	8.8	WHI16000271	0.0016	1.6
AA073712	soil	2016	UTM83-9	533618	6855318	23-Aug-16	10.9	WHI16000271	0.002	2
AA073713	soil	2016	UTM83-9	533639	6855413	23-Aug-16	10.2	WHI16000271	0.0014	1.4
AA073714	soil	2016	UTM83-9	533670	6855501	23-Aug-16	9.8	WHI16000271	0.0016	1.6
AA073715	soil	2016	UTM83-9	533700	6855625	23-Aug-16	7.7	WHI16000271	0.0011	1.1
AA073716	soil	2016	UTM83-9	533721	6855718	23-Aug-16	4.9	WHI16000271	0.0009	0.9
AA073717	soil	2016	UTM83-9	533733	6855811	23-Aug-16	9.2	WHI16000271	0.0021	2.1
AA073718	soil	2016	UTM83-9	533760	6855900	23-Aug-16	5.5	WHI16000271	0.0046	4.6
AA073719	soil	2016	UTM83-9	533799	6856002	23-Aug-16	6.4	WHI16000271	0.0006	0.6
AA073720	soil	2016	UTM83-9	533818	6856097	23-Aug-16	6.7	WHI16000271	0.0019	1.9
AA073721	soil	2016	UTM83-9	533834	6856192	23-Aug-16	8.3	WHI16000271	0.0025	2.5
AA073722	soil	2016	UTM83-9	533856	6856292	23-Aug-16	6.4	WHI16000271	0.001	1
AA073723	soil	2016	UTM83-9	533899	6856386	23-Aug-16	7.6	WHI16000271	0.002	2
AA073724	soil	2016	UTM83-9	533920	6856477	23-Aug-16	5.1	WHI16000271	0.0004	0.4
AA073725	soil	2016	UTM83-9	533971	6856573	23-Aug-16	6.9	WHI16000271	0.0014	1.4
AA073726	soil	2016	UTM83-9	534015	6856657	23-Aug-16	7.9	WHI16000271	0.0012	1.2
AA073727	soil	2016	UTM83-9	534044	6856757	23-Aug-16	6.7	WHI16000271	0.0013	1.3
AA073728	soil	2016	UTM83-9	534071	6856851	23-Aug-16	5.6	WHI16000271	0.0019	1.9
AA073729	soil	2016	UTM83-9	534116	6856950	23-Aug-16	5.5	WHI16000271	0.0008	0.8
AA073730	soil	2016	UTM83-9	532767	6858039	24-Aug-16	7.6	WHI16000271	0.0005	0.5
AA073731	soil	2016	UTM83-9	532721	6858128	24-Aug-16	3.1	WHI16000273	0.0019	1.9
AA073732	soil	2016	UTM83-9	532659	6858213	24-Aug-16	15.4	WHI16000273	0.0031	3.1
AA073733	soil	2016	UTM83-9	532585	6858282	24-Aug-16	56.3	WHI16000273	0.011	11
AA073734	soil	2016	UTM83-9	532678	6858414	24-Aug-16	13.1	WHI16000273	0.003	3
AA073735	soil	2016	UTM83-9	532758	6858387	24-Aug-16	46.8	WHI16000273	0.0198	19.8
AA073736	soil	2016	UTM83-9	532901	6858257	24-Aug-16	4.5	WHI16000273	0.0018	1.8
AA073737	soil	2016	UTM83-9	532946	6858159	24-Aug-16	5.2	WHI16000273	0.001	1
AA073738	soil	2016	UTM83-9	532998	6858073	24-Aug-16	11.9	WHI16000273	0.001	1
AA073739	soil	2016	UTM83-9	533025	6857990	24-Aug-16	10.3	WHI16000273	0.0019	1.9
AA073740	soil	2016	UTM83-9	533068	6857894	24-Aug-16	9.5	WHI16000273	0.0052	5.2
AA073741	soil	2016	UTM83-9	533089	6857801	24-Aug-16	4.8	WHI16000273	0.0008	0.8
AA073742	soil	2016	UTM83-9	533136	6857715	24-Aug-16	3.5	WHI16000273	0.0019	1.9
AA073743	soil	2016	UTM83-9	533181	6857615	24-Aug-16	4.5	WHI16000273	0.0015	1.5
AA073744	soil	2016	UTM83-9	533172	6857527	24-Aug-16	5.5	WHI16000273	0.0014	1.4
AA073745	soil	2016	UTM83-9	533183	6857430	24-Aug-16	5.2	WHI16000273	0.0019	1.9
AA073746	soil	2016	UTM83-9	535385	6845717	25-Aug-16	44.1	WHI16000273	0.0153	15.3
AA073747	soil	2016	UTM83-9	535294	6845653	25-Aug-16	97.5	WHI16000273	0.0141	14.1
AA073748	soil	2016	UTM83-9	535271	6845613	25-Aug-16	49.9	WHI16000273	0.0107	10.7
AA073749	soil	2016	UTM83-9	535271	6845613	25-Aug-16	50	WHI16000273	0.0095	9.5
AA073750	soil	2016	UTM83-9	535252	6845555	25-Aug-16	1384.9	WHI16000273	0.425	425
AA073751	soil	2016	UTM83-9	535373	6852618	21-Aug-16	7.7	WHI16000271	0.0008	0.8
AA073752	soil	2016	UTM83-9	535251	6852619	21-Aug-16	20.8	WHI16000271	0.0014	1.4
AA073753	soil	2016	UTM83-9	535185	6852610	21-Aug-16	8.5	WHI16000271	0.0016	1.6
AA073754	soil	2016	UTM83-9	535185	6852610	21-Aug-16	8.5	WHI16000271	0.0011	1.1
AA073755	soil	2016	UTM83-9	535067	6852632	21-Aug-16	6.2	WHI16000271	0.0006	0.6
AA073756	soil	2016	UTM83-9	534990	6852675	21-Aug-16	7	WHI16000271	0.0013	1.3
AA073757	soil	2016	UTM83-9	534912	6852755	21-Aug-16	4.2	WHI16000271	0.0001	0.1
AA073758	soil	2016	UTM83-9	534496	6849149	22-Aug-16	9.7	WHI16000271	0.0008	0.8
AA073759	soil	2016	UTM83-9	534586	6849193	22-Aug-16	14.3	WHI16000271	0.0017	1.7
AA073760	soil	2016	UTM83-9	534666	6849245	22-Aug-16	5.6	WHI16000271	0.0001	0.1
AA073761	soil	2016	UTM83-9	534754	6849285	22-Aug-16	8.3	WHI16000271	0.0002	0.2
AA073762	soil	2016	UTM83-9	534856	6849307	22-Aug-16	11.4	WHI16000271	0.0004	0.4
AA073763	soil	2016	UTM83-9	534954	6849328	22-Aug-16	25.9	WHI16000271	0.0027	2.7
AA073764	soil	2016	UTM83-9	535048	6849339	22-Aug-16	36.9	WHI16000271	0.008	8
AA073765	soil	2016	UTM83-9	535150	6849344	22-Aug-16	14.9	WHI16000271	0.0057	5.7
AA073766	soil	2016	UTM83-9	535247	6849361	22-Aug-16	16.3	WHI16000271	0.0016	1.6
AA073767	soil	2016	UTM83-9	535343	6849389	22-Aug-16	18.1	WHI16000271	0.0029	2.9
AA073768	soil	2016	UTM83-9	535431	6849418	22-Aug-16	19.8	WHI16000271	0.0014	1.4

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA073769	soil	2016	UTM83-9	535495	6849345	22-Aug-16	6.4	WHI16000271	0.0014	1.4
AA073770	soil	2016	UTM83-9	535568	6849288	22-Aug-16	28.5	WHI16000271	0.0013	1.3
AA073771	soil	2016	UTM83-9	535674	6849280	22-Aug-16	12.8	WHI16000272	0.001	1
AA073772	soil	2016	UTM83-9	535773	6849270	22-Aug-16	7.5	WHI16000272	0.0027	2.7
AA073773	soil	2016	UTM83-9	535862	6849304	22-Aug-16	8.9	WHI16000272	0.0007	0.7
AA073774	soil	2016	UTM83-9	535950	6849349	22-Aug-16	8.8	WHI16000272	0.0009	0.9
AA073775	soil	2016	UTM83-9	536045	6849383	22-Aug-16	25.6	WHI16000272	0.0012	1.2
AA073776	soil	2016	UTM83-9	536136	6849429	22-Aug-16	25.4	WHI16000272	0.0003	0.3
AA073777	soil	2016	UTM83-9	536210	6849499	22-Aug-16	32.4	WHI16000272	0.0007	0.7
AA073778	soil	2016	UTM83-9	536281	6849565	22-Aug-16	18.9	WHI16000272	0.0001	0.1
AA073779	soil	2016	UTM83-9	536368	6849593	22-Aug-16	16.6	WHI16000272	0.0003	0.3
AA073780	soil	2016	UTM83-9	536470	6849603	22-Aug-16	0.6	WHI16000272	0.0001	0.1
AA073781	soil	2016	UTM83-9	536569	6849582	22-Aug-16	13.2	WHI16000272	0.0012	1.2
AA073782	soil	2016	UTM83-9	536675	6849552	22-Aug-16	11.5	WHI16000272	0.0004	0.4
AA073783	soil	2016	UTM83-9	536748	6849500	22-Aug-16	9.2	WHI16000272	0.0008	0.8
AA073784	soil	2016	UTM83-9	536840	6849459	22-Aug-16	13.5	WHI16000272	0.002	2
AA073785	soil	2016	UTM83-9	536931	6849422	22-Aug-16	14.5	WHI16000272	0.0018	1.8
AA073786	soil	2016	UTM83-9	537004	6849382	22-Aug-16	13.2	WHI16000272	0.0038	3.8
AA073787	soil	2016	UTM83-9	534141	6854693	23-Aug-16	12.4	WHI16000272	0.0001	0.1
AA073788	soil	2016	UTM83-9	534143	6854799	23-Aug-16	9.1	WHI16000272	0.0006	0.6
AA073789	soil	2016	UTM83-9	534141	6854895	23-Aug-16	10.9	WHI16000272	0.0004	0.4
AA073790	soil	2016	UTM83-9	534135	6854993	23-Aug-16	6.5	WHI16000272	0.0008	0.8
AA073791	soil	2016	UTM83-9	534141	6855090	23-Aug-16	7.1	WHI16000272	0.0005	0.5
AA073792	soil	2016	UTM83-9	534135	6855188	23-Aug-16	9.2	WHI16000272	0.0001	0.1
AA073793	soil	2016	UTM83-9	534135	6855188	23-Aug-16	7.4	WHI16000272	0.0008	0.8
AA073794	soil	2016	UTM83-9	534152	6855292	23-Aug-16	11.6	WHI16000272	0.0001	0.1
AA073795	soil	2016	UTM83-9	534150	6855384	23-Aug-16	11.8	WHI16000272	0.0007	0.7
AA073796	soil	2016	UTM83-9	534145	6855488	23-Aug-16	10.5	WHI16000272	0.0001	0.1
AA073797	soil	2016	UTM83-9	534135	6855595	23-Aug-16	10.9	WHI16000272	0.0001	0.1
AA073798	soil	2016	UTM83-9	534141	6855683	23-Aug-16	9	WHI16000272	0.0001	0.1
AA073799	soil	2016	UTM83-9	534139	6855795	23-Aug-16	9.1	WHI16000272	0.0001	0.1
AA073800	soil	2016	UTM83-9	534135	6855898	23-Aug-16	7.4	WHI16000272	0.0001	0.1
AA073801	soil	2016	UTM83-9	535027	6850473	21-Aug-16	17.1	WHI16000271	0.0021	2.1
AA073802	soil	2016	UTM83-9	535131	6850484	21-Aug-16	7.4	WHI16000271	0.0005	0.5
AA073803	soil	2016	UTM83-9	535226	6850489	21-Aug-16	4.5	WHI16000271	0.0016	1.6
AA073804	soil	2016	UTM83-9	535326	6850486	21-Aug-16	4.4	WHI16000271	0.0001	0.1
AA073805	soil	2016	UTM83-9	535326	6850486	21-Aug-16	4.7	WHI16000271	0.0007	0.7
AA073806	soil	2016	UTM83-9	535415	6850533	21-Aug-16	23.7	WHI16000271	0.0004	0.4
AA073807	soil	2016	UTM83-9	535492	6850576	21-Aug-16	4.2	WHI16000271	0.0006	0.6
AA073808	soil	2016	UTM83-9	535591	6850624	21-Aug-16	12.7	WHI16000271	0.0006	0.6
AA073809	soil	2016	UTM83-9	535675	6850676	21-Aug-16	13.6	WHI16000271	0.0001	0.1
AA073810	soil	2016	UTM83-9	535776	6850705	21-Aug-16	11.3	WHI16000271	0.0007	0.7
AA073811	soil	2016	UTM83-9	535838	6850790	21-Aug-16	26.9	WHI16000271	0.0025	2.5
AA073812	soil	2016	UTM83-9	535906	6850874	21-Aug-16	8.8	WHI16000271	0.0033	3.3
AA073813	soil	2016	UTM83-9	535960	6850941	21-Aug-16	5	WHI16000271	0.0004	0.4
AA073814	soil	2016	UTM83-9	536043	6851006	21-Aug-16	15.8	WHI16000271	0.0016	1.6
AA073815	soil	2016	UTM83-9	536136	6851015	21-Aug-16	8	WHI16000271	0.0001	0.1
AA073816	soil	2016	UTM83-9	536229	6850998	21-Aug-16	12.8	WHI16000271	0.0005	0.5
AA073817	soil	2016	UTM83-9	536328	6850970	21-Aug-16	14.1	WHI16000271	0.0017	1.7
AA073818	soil	2016	UTM83-9	536430	6850951	21-Aug-16	11.1	WHI16000271	0.002	2
AA073819	soil	2016	UTM83-9	536521	6850930	21-Aug-16	10.6	WHI16000271	0.0011	1.1
AA073820	soil	2016	UTM83-9	536621	6850913	21-Aug-16	9.2	WHI16000271	0.0009	0.9
AA073821	soil	2016	UTM83-9	536712	6850892	21-Aug-16	7.2	WHI16000272	0.0019	1.9
AA073822	soil	2016	UTM83-9	536822	6850868	21-Aug-16	5.7	WHI16000272	0.0014	1.4
AA073823	soil	2016	UTM83-9	536925	6850847	21-Aug-16	6.1	WHI16000272	0.0013	1.3
AA073824	soil	2016	UTM83-9	537014	6850816	21-Aug-16	6.5	WHI16000272	0.0022	2.2
AA073825	soil	2016	UTM83-9	537061	6850815	21-Aug-16	6.1	WHI16000272	0.0013	1.3
AA073826	soil	2016	UTM83-9	536082	6849894	22-Aug-16	10.6	WHI16000272	0.0039	3.9
AA073827	soil	2016	UTM83-9	536180	6849890	22-Aug-16	5.7	WHI16000272	0.0013	1.3
AA073828	soil	2016	UTM83-9	536279	6849879	22-Aug-16	9.6	WHI16000272	0.0019	1.9
AA073829	soil	2016	UTM83-9	536377	6849861	22-Aug-16	10.4	WHI16000272	0.0016	1.6

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA073830	soil	2016	UTM83-9	536479	6849857	22-Aug-16	14.8	WHI16000272	0.0018	1.8
AA073831	soil	2016	UTM83-9	536576	6849850	22-Aug-16	10.6	WHI16000272	0.0021	2.1
AA073832	soil	2016	UTM83-9	536673	6849837	22-Aug-16	8.2	WHI16000272	0.0022	2.2
AA073833	soil	2016	UTM83-9	536766	6849793	22-Aug-16	7.9	WHI16000272	0.0017	1.7
AA073834	soil	2016	UTM83-9	536851	6849744	22-Aug-16	7	WHI16000272	0.001	1
AA073835	soil	2016	UTM83-9	536945	6849695	22-Aug-16	9.3	WHI16000272	0.0013	1.3
AA073836	soil	2016	UTM83-9	537041	6849644	22-Aug-16	9.1	WHI16000272	0.0009	0.9
AA073837	soil	2016	UTM83-9	537066	6849633	22-Aug-16	6.8	WHI16000272	0.0022	2.2
AA073838	soil	2016	UTM83-9	534144	6854591	23-Aug-16	7.1	WHI16000272	0.0007	0.7
AA073839	soil	2016	UTM83-9	534143	6854492	23-Aug-16	10.1	WHI16000272	0.0021	2.1
AA073840	soil	2016	UTM83-9	534144	6854389	23-Aug-16	7.5	WHI16000272	0.0003	0.3
AA073841	soil	2016	UTM83-9	534145	6854289	23-Aug-16	12.5	WHI16000271	0.0018	1.8
AA073842	soil	2016	UTM83-9	534145	6854193	23-Aug-16	19.7	WHI16000271	0.0032	3.2
AA073843	soil	2016	UTM83-9	534145	6854095	23-Aug-16	5.2	WHI16000271	0.0001	0.1
AA073844	soil	2016	UTM83-9	534143	6853993	23-Aug-16	5.9	WHI16000271	0.0003	0.3
AA073845	soil	2016	UTM83-9	534141	6853893	23-Aug-16	8.9	WHI16000271	0.0006	0.6
AA073846	soil	2016	UTM83-9	534132	6853800	23-Aug-16	16.3	WHI16000271	0.0013	1.3
AA073847	soil	2016	UTM83-9	534081	6853706	23-Aug-16	19.9	WHI16000271	0.0022	2.2
AA073848	soil	2016	UTM83-9	534093	6853608	23-Aug-16	16.6	WHI16000271	0.0009	0.9
AA073849	soil	2016	UTM83-9	534099	6853565	23-Aug-16	9.5	WHI16000271	0.0005	0.5
AA073850	soil	2016	UTM83-9	535085	6853437	23-Aug-16	8.3	WHI16000271	0.0004	0.4
AA073851	soil	2016	UTM83-9	535217	6845539	25-Aug-16	1668.6	WHI16000273	0.6056	605.6
AA073852	soil	2016	UTM83-9	535179	6845487	25-Aug-16	1859.3	WHI16000273	0.0577	57.7
AA073853	soil	2016	UTM83-9	535162	6845459	25-Aug-16	100.7	WHI16000273	0.0028	2.8
AA073854	soil	2016	UTM83-9	535131	6845406	25-Aug-16	596.9	WHI16000273	0.0101	10.1
AA073855	soil	2016	UTM83-9	535091	6845377	25-Aug-16	116.6	WHI16000273	0.0089	8.9
AA073856	soil	2016	UTM83-9	535063	6845338	25-Aug-16	427.1	WHI16000273	0.0649	64.9
AA073857	soil	2016	UTM83-9	535024	6845287	25-Aug-16	742.9	WHI16000273	0.022	22
AA073858	soil	2016	UTM83-9	534999	6845259	25-Aug-16	88.3	WHI16000273	0.0333	33.3
AA073859	soil	2016	UTM83-9	534970	6845211	25-Aug-16	106.4	WHI16000273	0.0029	2.9
AA073860	soil	2016	UTM83-9	535035	6845154	25-Aug-16	17.8	WHI16000273	0.0014	1.4
AA073861	soil	2016	UTM83-9	535079	6845192	25-Aug-16	51.7	WHI16000273	0.0023	2.3
AA073862	soil	2016	UTM83-9	535109	6845223	25-Aug-16	81.2	WHI16000273	0.0061	6.1
AA073863	soil	2016	UTM83-9	535140	6845274	25-Aug-16	22.2	WHI16000273	0.0009	0.9
AA073864	soil	2016	UTM83-9	535166	6845310	25-Aug-16	624.9	WHI16000273	0.0312	31.2
AA073865	soil	2016	UTM83-9	535201	6845351	25-Aug-16	112.1	WHI16000273	0.0061	6.1
AA073866	soil	2016	UTM83-9	535217	6845387	25-Aug-16	34.8	WHI16000273	0.0018	1.8
AA073867	soil	2016	UTM83-9	535263	6845429	25-Aug-16	110.1	WHI16000273	0.0047	4.7
AA073868	soil	2016	UTM83-9	535345	6845538	25-Aug-16	122	WHI16000273	0.0944	94.4
AA073869	soil	2016	UTM83-9	535319	6845512	25-Aug-16	261.8	WHI16000273	0.1609	160.9
AA073870	soil	2016	UTM83-9	535386	6845590	25-Aug-16	1195.2	WHI16000273	0.1238	123.8
AA073871	soil	2016	UTM83-9	535436	6845679	25-Aug-16	126.2	WHI16000273	0.0763	76.3
AA073872	soil	2016	UTM83-9	536073	6845330	26-Aug-16	86.3	WHI16000273	0.0036	3.6
AA073873	soil	2016	UTM83-9	535847	6844549	26-Aug-16	58.1	WHI16000273	0.0081	8.1
AA073874	soil	2016	UTM83-9	536063	6844829	26-Aug-16	131.5	WHI16000273	0.016	16
AA073875	soil	2016	UTM83-9	536090	6844870	26-Aug-16	87	WHI16000273	0.0121	12.1
AA073876	soil	2016	UTM83-9	536120	6844911	26-Aug-16	119.9	WHI16000273	0.0117	11.7
AA073877	soil	2016	UTM83-9	536148	6844950	26-Aug-16	67.6	WHI16000273	0.006	6
AA073878	soil	2016	UTM83-9	535880	6844589	26-Aug-16	99.6	WHI16000273	0.0043	4.3
AA073879	soil	2016	UTM83-9	535910	6844632	26-Aug-16	57.9	WHI16000273	0.0032	3.2
AA073880	soil	2016	UTM83-9	535941	6844667	26-Aug-16	51.9	WHI16000273	0.0029	2.9
AA073881	soil	2016	UTM83-9	535974	6844720	26-Aug-16	163.5	WHI16000273	0.0048	4.8
AA073882	soil	2016	UTM83-9	535998	6844745	26-Aug-16	190.5	WHI16000273	0.0083	8.3
AA073883	soil	2016	UTM83-9	536028	6844790	26-Aug-16	153	WHI16000273	0.0049	4.9
AA073884	soil	2016	UTM83-9	536178	6844990	26-Aug-16	55.3	WHI16000273	0.0066	6.6
AA073885	soil	2016	UTM83-9	536211	6845028	26-Aug-16	74.9	WHI16000273	0.0045	4.5
AA073886	soil	2016	UTM83-9	536239	6845069	26-Aug-16	83.2	WHI16000273	0.0025	2.5
AA073887	soil	2016	UTM83-9	535788	6845475	27-Aug-16	135.6	WHI16000273	0.0025	2.5
AA073888	soil	2016	UTM83-9	535599	6845567	27-Aug-16	116.7	WHI16000273	0.0133	13.3
AA073889	soil	2016	UTM83-9	535572	6845521	27-Aug-16	540.1	WHI16000273	0.0224	22.4
AA073890	soil	2016	UTM83-9	535537	6845474	27-Aug-16	221.3	WHI16000273	0.012	12

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA073891	soil	2016	UTM83-9	535510	6845428	27-Aug-16	161.6	WHI16000273	0.0328	32.8
AA073892	soil	2016	UTM83-9	535510	6845428	27-Aug-16	160.2	WHI16000273	0.0161	16.1
AA073893	soil	2016	UTM83-9	535489	6845382	27-Aug-16	117.5	WHI16000273	0.003	3
AA073894	soil	2016	UTM83-9	535450	6845354	27-Aug-16	102.6	WHI16000273	0.0039	3.9
AA073895	soil	2016	UTM83-9	535425	6845332	27-Aug-16	143.6	WHI16000273	0.0315	31.5
AA073896	soil	2016	UTM83-9	535390	6845272	27-Aug-16	136.3	WHI16000273	0.1089	108.9
AA073897	soil	2016	UTM83-9	535343	6845228	27-Aug-16	285.3	WHI16000273	0.011	11
AA073898	soil	2016	UTM83-9	535328	6845188	27-Aug-16	967.1	WHI16000273	0.022	22
AA073899	soil	2016	UTM83-9	535293	6845156	27-Aug-16	38.6	WHI16000273	0.0037	3.7
AA073900	soil	2016	UTM83-9	535272	6845109	27-Aug-16	85	WHI16000273	0.0056	5.6
AA073901	soil	2016	UTM83-9	535086	6853404	23-Aug-16	16	WHI16000271	0.0018	1.8
AA073902	soil	2016	UTM83-9	535089	6853315	23-Aug-16	7.3	WHI16000271	0.0008	0.8
AA073903	soil	2016	UTM83-9	535042	6853223	23-Aug-16	12.2	WHI16000271	0.0011	1.1
AA073904	soil	2016	UTM83-9	534993	6853125	23-Aug-16	7.5	WHI16000271	0.0001	0.1
AA073905	soil	2016	UTM83-9	534961	6853046	23-Aug-16	7	WHI16000271	0.004	4
AA073906	soil	2016	UTM83-9	534911	6852956	23-Aug-16	5.5	WHI16000271	0.0001	0.1
AA073907	soil	2016	UTM83-9	534918	6852852	23-Aug-16	9.7	WHI16000271	0.0008	0.8
AA073908	soil	2016	UTM83-9	534903	6851321	23-Aug-16	8.4	WHI16000271	0.0009	0.9
AA073909	soil	2016	UTM83-9	534969	6851392	23-Aug-16	16.4	WHI16000271	0.0028	2.8
AA073910	soil	2016	UTM83-9	535048	6851426	23-Aug-16	16.3	WHI16000271	0.0033	3.3
AA073911	soil	2016	UTM83-9	535152	6851460	23-Aug-16	8.2	WHI16000271	0.0001	0.1
AA073912	soil	2016	UTM83-9	535234	6851516	23-Aug-16	9.8	WHI16000271	0.001	1
AA073913	soil	2016	UTM83-9	535235	6851516	23-Aug-16	11.2	WHI16000271	0.0011	1.1
AA073914	soil	2016	UTM83-9	535278	6851609	23-Aug-16	4.2	WHI16000271	0.0011	1.1
AA073915	soil	2016	UTM83-9	535314	6851692	23-Aug-16	8.9	WHI16000271	0.0004	0.4
AA073916	soil	2016	UTM83-9	535355	6851783	23-Aug-16	7.9	WHI16000271	0.0007	0.7
AA073917	soil	2016	UTM83-9	533190	6856749	24-Aug-16	3	WHI16000271	0.0006	0.6
AA073918	soil	2016	UTM83-9	533204	6856821	24-Aug-16	9.8	WHI16000271	0.0018	1.8
AA073919	soil	2016	UTM83-9	533218	6856926	24-Aug-16	3.1	WHI16000271	0.0001	0.1
AA073920	soil	2016	UTM83-9	533223	6857024	24-Aug-16	6.3	WHI16000271	0.0005	0.5
AA073921	soil	2016	UTM83-9	533215	6857122	24-Aug-16	7	WHI16000271	0.0001	0.1
AA073922	soil	2016	UTM83-9	533198	6857227	24-Aug-16	2.3	WHI16000271	0.0001	0.1
AA073923	soil	2016	UTM83-9	533167	6857305	24-Aug-16	4.1	WHI16000271	0.0002	0.2
AA073924	soil	2016	UTM83-9	534214	6857441	24-Aug-16	9.1	WHI16000271	0.0014	1.4
AA073925	soil	2016	UTM83-9	534191	6857340	24-Aug-16	6.2	WHI16000271	0.0004	0.4
AA073926	soil	2016	UTM83-9	534179	6857235	24-Aug-16	8.9	WHI16000271	0.0017	1.7
AA073927	soil	2016	UTM83-9	534161	6857139	24-Aug-16	5.3	WHI16000271	0.0029	2.9
AA073928	soil	2016	UTM83-9	534142	6857034	24-Aug-16	6.4	WHI16000271	0.0051	5.1
AA073929	soil	2016	UTM83-9	534324	6856665	24-Aug-16	2.7	WHI16000271	0.0002	0.2
AA073930	soil	2016	UTM83-9	534407	6856616	24-Aug-16	13.8	WHI16000271	0.0003	0.3
AA073931	soil	2016	UTM83-9	534461	6856533	24-Aug-16	1.3	WHI16000273	0.0008	0.8
AA073932	soil	2016	UTM83-9	535898	6845955	25-Aug-16	27.3	WHI16000273	0.0018	1.8
AA073933	soil	2016	UTM83-9	535937	6845988	25-Aug-16	20.4	WHI16000273	0.0042	4.2
AA073934	soil	2016	UTM83-9	535960	6846034	25-Aug-16	28.7	WHI16000273	0.0038	3.8
AA073935	soil	2016	UTM83-9	535997	6846071	25-Aug-16	27	WHI16000273	0.0037	3.7
AA073936	soil	2016	UTM83-9	536015	6846107	25-Aug-16	24.7	WHI16000273	0.003	3
AA073937	soil	2016	UTM83-9	535940	6846167	25-Aug-16	182.2	WHI16000273	0.0059	5.9
AA073938	soil	2016	UTM83-9	535906	6846132	25-Aug-16	28.6	WHI16000273	0.0042	4.2
AA073939	soil	2016	UTM83-9	535888	6846086	25-Aug-16	31.7	WHI16000273	0.0023	2.3
AA073940	soil	2016	UTM83-9	535849	6846055	25-Aug-16	26.3	WHI16000273	0.0052	5.2
AA073941	soil	2016	UTM83-9	535815	6846012	25-Aug-16	19.9	WHI16000273	0.0018	1.8
AA073942	soil	2016	UTM83-9	535790	6845964	25-Aug-16	18.8	WHI16000273	0.0026	2.6
AA073943	soil	2016	UTM83-9	535762	6845920	25-Aug-16	44.1	WHI16000273	0.0081	8.1
AA073944	soil	2016	UTM83-9	535722	6845890	25-Aug-16	84	WHI16000273	0.0066	6.6
AA073945	soil	2016	UTM83-9	535700	6845844	25-Aug-16	251.6	WHI16000273	0.0119	11.9
AA073946	soil	2016	UTM83-9	535673	6845816	25-Aug-16	45.9	WHI16000273	0.0198	19.8
AA073947	soil	2016	UTM83-9	535640	6845759	25-Aug-16	72.7	WHI16000273	0.0157	15.7
AA073948	soil	2016	UTM83-9	535613	6845730	25-Aug-16	179.2	WHI16000273	0.0249	24.9
AA073949	soil	2016	UTM83-9	535575	6845685	25-Aug-16	175.4	WHI16000273	0.0503	50.3
AA073950	soil	2016	UTM83-9	535544	6845650	25-Aug-16	99.3	WHI16000273	0.0095	9.5
AA073951	soil	2016	UTM83-9	534160	6855982	23-Aug-16	8.2	WHI16000272	0.0001	0.1

Sample ID	Sample Code	Program Code	Coordinate System	Easting	Northing	SampleDate	As_ppm	Au_CertName	Au_ppm	Au_ppb
AA073952	soil	2016	UTM83-9	534171	6856088	23-Aug-16	3.1	WHI16000272	0.0004	0.4
AA073953	soil	2016	UTM83-9	534169	6856189	23-Aug-16	6.1	WHI16000272	0.009	9
AA073954	soil	2016	UTM83-9	534169	6856289	23-Aug-16	1	WHI16000272	0.0006	0.6
AA073955	soil	2016	UTM83-9	534161	6856393	23-Aug-16	2.8	WHI16000272	0.0001	0.1
AA073956	soil	2016	UTM83-9	534161	6856481	23-Aug-16	9.5	WHI16000272	0.0001	0.1
AA073957	soil	2016	UTM83-9	534180	6856564	23-Aug-16	21.9	WHI16000272	0.0003	0.3
AA073958	soil	2016	UTM83-9	534233	6856671	23-Aug-16	10.8	WHI16000272	0.0003	0.3
AA073959	soil	2016	UTM83-9	532364	6857993	24-Aug-16	12.1	WHI16000272	0.0011	1.1
AA073960	soil	2016	UTM83-9	532452	6858007	24-Aug-16	9.9	WHI16000272	0.0015	1.5
AA073961	soil	2016	UTM83-9	532511	6857937	24-Aug-16	6.5	WHI16000272	0.0015	1.5
AA073962	soil	2016	UTM83-9	532557	6857851	24-Aug-16	10.6	WHI16000272	0.0019	1.9
AA073963	soil	2016	UTM83-9	532615	6857755	24-Aug-16	6.4	WHI16000272	0.0013	1.3
AA073964	soil	2016	UTM83-9	532605	6857675	24-Aug-16	6.2	WHI16000272	0.0014	1.4
AA073965	soil	2016	UTM83-9	532592	6857568	24-Aug-16	7.3	WHI16000272	0.0012	1.2
AA073966	soil	2016	UTM83-9	532578	6857467	24-Aug-16	7.3	WHI16000272	0.0006	0.6
AA073967	soil	2016	UTM83-9	532593	6857376	24-Aug-16	3.3	WHI16000272	0.0011	1.1
AA073968	soil	2016	UTM83-9	532601	6857270	24-Aug-16	6	WHI16000272	0.0012	1.2
AA073969	soil	2016	UTM83-9	532595	6857225	24-Aug-16	2.1	WHI16000272	0.0012	1.2
AA073970	soil	2016	UTM83-9	532806	6857950	24-Aug-16	2.7	WHI16000272	0.0006	0.6
AA073971	soil	2016	UTM83-9	532842	6857869	24-Aug-16	15.5	WHI16000272	0.0027	2.7
AA073972	soil	2016	UTM83-9	532880	6857776	24-Aug-16	14.9	WHI16000272	0.0019	1.9
AA073973	soil	2016	UTM83-9	532911	6857684	24-Aug-16	8	WHI16000272	0.0001	0.1
AA073974	soil	2016	UTM83-9	532922	6857581	24-Aug-16	7	WHI16000272	0.0004	0.4
AA073975	soil	2016	UTM83-9	532953	6857497	24-Aug-16	6	WHI16000272	0.0001	0.1
AA073976	soil	2016	UTM83-9	535445	6845847	25-Aug-16	83.4	WHI16000272	0.039	39
AA073977	soil	2016	UTM83-9	535508	6845928	25-Aug-16	86.7	WHI16000272	0.0221	22.1
AA073978	soil	2016	UTM83-9	535533	6845976	25-Aug-16	46.4	WHI16000272	0.0077	7.7
AA073979	soil	2016	UTM83-9	535568	6846012	25-Aug-16	15.4	WHI16000272	0.0036	3.6
AA073980	soil	2016	UTM83-9	535600	6846049	25-Aug-16	8.5	WHI16000272	0.0001	0.1
AA073981	soil	2016	UTM83-9	535633	6846087	25-Aug-16	28.8	WHI16000272	0.0037	3.7
AA073982	soil	2016	UTM83-9	535634	6846086	25-Aug-16	17.7	WHI16000272	0.0018	1.8
AA073983	soil	2016	UTM83-9	535654	6846126	25-Aug-16	20.6	WHI16000272	0.0009	0.9
AA073984	soil	2016	UTM83-9	535696	6846165	25-Aug-16	60.1	WHI16000272	0.2951	295.1
AA073985	soil	2016	UTM83-9	535732	6846210	25-Aug-16	37.3	WHI16000272	0.0032	3.2
AA073986	soil	2016	UTM83-9	535759	6846242	25-Aug-16	37.3	WHI16000272	0.0047	4.7
AA073987	soil	2016	UTM83-9	535786	6846284	25-Aug-16	36.6	WHI16000272	0.0016	1.6
AA073988	soil	2016	UTM83-9	535855	6846229	25-Aug-16	41.9	WHI16000272	0.0044	4.4
AA073989	soil	2016	UTM83-9	535800	6846152	25-Aug-16	34.4	WHI16000272	0.0017	1.7
AA073990	soil	2016	UTM83-9	535763	6846112	25-Aug-16	44.5	WHI16000272	0.0034	3.4
AA073991	soil	2016	UTM83-9	535735	6846063	25-Aug-16	19.5	WHI16000272	0.0014	1.4
AA073992	soil	2016	UTM83-9	535708	6846024	25-Aug-16	21.9	WHI16000272	0.0023	2.3
AA073993	soil	2016	UTM83-9	535678	6845997	25-Aug-16	19.9	WHI16000272	0.0031	3.1
AA073994	soil	2016	UTM83-9	535656	6845948	25-Aug-16	61.2	WHI16000272	0.0434	43.4
AA073995	soil	2016	UTM83-9	535629	6845913	25-Aug-16	112.6	WHI16000272	0.0154	15.4
AA073996	soil	2016	UTM83-9	535593	6845861	25-Aug-16	333.8	WHI16000272	0.0274	27.4
AA073997	soil	2016	UTM83-9	535531	6845785	25-Aug-16	81	WHI16000272	0.0344	34.4
AA073998	soil	2016	UTM83-9	535473	6845707	25-Aug-16	65.8	WHI16000272	0.0145	14.5
AA073999	soil	2016	UTM83-9	536166	6845126	26-Aug-16	46.1	WHI16000272	0.0032	3.2
AA074000	soil	2016	UTM83-9	536131	6845085	26-Aug-16	51	WHI16000272	0.0036	3.6
K922321	Soil	2016	UTM83-9	534494.26	6844528.16	10-Sep-16	10000	WH16157816	2.08	2080

## Appendix II. Assay certificates



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (604) 253-3158

**Client:** **Golden Predator Mining Corp.**  
510 - 580 Hornby Street  
Vancouver BC V6C 3B6 CANADA

Submitted By: M. Burke  
Receiving Lab: Canada-Whitehorse  
Received: August 16, 2016  
Report Date: August 30, 2016  
Page: 1 of 12

# CERTIFICATE OF ANALYSIS

WHI16000177.1

## CLIENT JOB INFORMATION

Project: None Given  
Shipment ID:  
P.O. Number NA-16176  
Number of Samples: 320

## SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
DISP-RJT Dispose of Reject After 90 days

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: Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver BC V6C 3B6  
CANADA

CC:

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	312	Dry at 60C			WHI
SS80	312	Dry at 60C sieve 100g to -80 mesh			WHI
AQ251_EXT	309	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
SHP01	312	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.



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

Client: **Golden Predator Mining Corp.**

510 - 580 Hornby Street  
Vancouver BC V6C 3B6 CANADA

Project: None Given

Report Date: August 30, 2016

Page: 2 of 12

Part: 1 of 3

# CERTIFICATE OF ANALYSIS

# WHI16000177.1

Method	Analyte	AQ251																			
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
AA068001	Soil	0.38	44.82	41.18	93.5	49	35.0	22.7	847	4.09	12.7	1.8	1.0	11.9	9.9	0.07	0.73	0.72	15	0.08	0.045
AA068002	Soil	0.86	54.77	128.42	116.0	29	38.9	42.5	1326	4.22	20.6	1.6	<0.2	11.7	6.6	0.05	1.08	1.18	15	0.04	0.047
AA068003	Soil	0.59	51.46	64.83	103.0	87	35.0	28.0	1157	4.08	21.7	2.5	1.5	10.6	12.2	0.10	0.79	0.78	15	0.11	0.045
AA068004	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.
AA068005	Soil	0.49	38.47	33.87	88.4	61	26.3	19.6	813	3.00	11.6	1.6	0.7	4.6	21.5	0.14	0.58	0.55	11	0.27	0.089
AA068006	Soil	0.53	36.24	27.54	86.4	32	40.0	15.9	583	4.27	19.2	0.8	9.8	4.7	5.3	0.05	0.51	0.48	17	0.03	0.055
AA068007	Soil	0.50	16.79	17.22	77.5	41	43.9	14.8	661	4.08	14.9	0.7	0.8	1.0	15.4	0.07	0.38	0.41	18	0.33	0.100
AA068008	Soil	1.20	17.55	22.99	77.9	32	21.0	10.9	711	3.19	13.6	1.5	<0.2	1.1	30.5	0.12	0.39	0.62	21	0.74	0.096
AA068009	Soil	0.91	12.74	9.44	38.1	46	11.3	6.2	365	2.33	16.1	0.7	0.7	0.5	18.7	0.06	0.29	0.36	15	0.29	0.059
AA068010	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.
AA068011	Soil	0.22	47.67	25.92	98.4	62	45.9	20.2	615	4.54	17.2	1.4	0.8	7.9	9.1	0.03	0.30	0.54	14	0.11	0.049
AA068012	Soil	0.38	33.51	29.57	90.9	27	36.6	17.6	593	3.86	19.6	0.9	0.4	8.1	10.9	0.06	0.47	0.51	13	0.08	0.053
AA068013	Soil	0.39	40.89	25.84	81.2	26	37.3	18.9	654	3.73	17.0	0.5	32.9	9.2	7.5	0.03	0.39	0.54	13	0.03	0.051
AA068014	Soil	0.36	47.37	26.29	89.7	25	40.3	21.0	692	3.93	15.7	0.5	0.8	10.4	13.1	0.04	0.40	0.46	13	0.08	0.039
AA068015	Soil	0.31	52.63	31.07	88.7	29	36.9	20.8	808	3.93	20.7	0.4	0.9	7.5	10.6	0.08	0.49	0.62	13	0.06	0.056
AA068016	Soil	1.13	32.83	25.59	74.0	26	31.4	16.0	616	3.78	40.9	0.8	1.8	5.7	4.7	0.12	1.04	0.41	13	0.02	0.041
AA068017	Soil	0.38	19.06	17.18	78.9	12	37.3	14.1	412	3.97	17.8	0.7	0.7	7.8	3.1	0.05	0.43	0.33	15	<0.01	0.026
AA068018	Soil	0.77	26.53	20.60	64.4	36	24.9	13.7	793	4.06	17.8	0.6	0.3	1.2	5.7	0.09	0.49	0.46	20	0.02	0.070
AA068019	Soil	0.79	22.84	27.93	76.3	41	25.4	13.9	987	3.84	21.4	0.8	1.4	1.8	6.4	0.10	0.48	0.49	19	0.03	0.075
AA068020	Soil	0.48	26.87	22.49	86.0	16	34.3	14.2	440	4.11	24.1	0.8	0.8	6.2	4.8	0.08	0.50	0.46	19	0.01	0.041
AA068021	Soil	0.90	64.65	26.85	102.6	32	38.9	30.0	801	4.45	34.9	1.1	0.4	8.9	4.9	0.09	1.04	1.02	15	0.01	0.048
AA068022	Soil	0.38	27.10	24.24	76.4	56	27.2	18.9	632	3.43	22.3	1.1	0.6	6.2	7.9	0.12	1.02	0.52	12	0.07	0.061
AA068023	Soil	0.54	35.55	32.59	69.4	125	38.6	18.2	462	4.38	22.4	1.6	2.6	6.1	52.2	0.18	1.35	0.53	13	0.80	0.106
AA068024	Soil	0.37	28.96	31.84	59.8	162	30.1	15.9	488	3.77	20.2	2.4	4.7	6.5	29.8	0.07	0.96	0.42	14	0.43	0.068
AA068025	Soil	0.57	36.85	29.56	64.4	32	24.8	21.0	617	3.33	35.5	1.3	6.6	6.3	4.5	0.07	1.26	0.41	11	0.02	0.072
AA068026	Soil	0.75	67.36	55.49	63.0	83	34.3	27.3	830	5.49	21.1	1.9	<0.2	7.1	7.5	0.06	1.63	0.50	12	0.05	0.116
AA068027	Soil	0.49	13.89	15.19	40.6	29	11.9	9.6	651	2.14	11.0	1.0	0.9	3.2	6.1	0.06	0.46	0.28	12	0.04	0.069
AA068028	Soil	0.40	42.56	35.84	71.6	79	30.3	31.3	719	3.69	32.1	2.1	11.6	8.5	16.9	0.08	1.01	0.41	11	0.10	0.062
AA068029	Soil	0.41	34.93	34.10	74.8	74	27.3	21.8	649	3.78	26.9	1.8	4.2	8.7	11.6	0.05	0.80	0.41	13	0.08	0.047
AA068030	Soil	0.23	13.16	10.02	53.3	42	23.5	15.2	460	3.61	12.8	2.9	0.4	12.9	12.1	0.03	0.42	0.27	11	0.04	0.033



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

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Client: **Golden Predator Mining Corp.**

510 - 580 Hornby Street  
Vancouver BC V6C 3B6 CANADA

Project: None Given

Report Date: August 30, 2016

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Part: 2 of 3

# CERTIFICATE OF ANALYSIS

# WHI16000177.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA068001	Soil	19.7	25.3	0.77	25.7	0.003	<1	1.98	0.004	0.03	<0.1	1.9	0.03	<0.02	14	0.1	0.07	5.2	0.66	0.1	0.08
AA068002	Soil	16.3	25.2	0.79	29.2	0.002	1	2.23	0.003	0.03	<0.1	1.7	0.04	<0.02	7	0.2	0.15	5.3	1.03	<0.1	0.14
AA068003	Soil	16.4	25.6	0.76	32.8	0.004	<1	2.04	0.004	0.04	<0.1	2.1	0.04	<0.02	19	0.1	0.10	5.5	1.02	<0.1	0.08
AA068004	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.
AA068005	Soil	7.1	20.5	0.56	36.2	0.003	<1	1.54	0.007	0.06	<0.1	1.1	0.04	0.06	35	0.4	0.04	4.9	0.65	<0.1	0.08
AA068006	Soil	15.9	30.3	0.87	28.1	0.006	2	2.10	0.004	0.03	<0.1	1.5	0.03	0.02	19	0.1	0.07	5.6	0.68	<0.1	0.07
AA068007	Soil	12.4	32.7	0.67	48.9	0.008	2	1.65	0.005	0.03	<0.1	1.1	0.03	0.04	9	0.1	0.05	5.1	0.61	<0.1	0.03
AA068008	Soil	11.0	21.4	0.47	52.4	0.007	2	1.39	0.004	0.04	<0.1	0.8	0.05	0.07	21	<0.1	0.09	5.9	1.37	<0.1	<0.02
AA068009	Soil	9.6	12.7	0.27	28.9	0.006	1	1.07	0.010	0.03	<0.1	0.3	0.04	0.05	15	0.1	0.06	4.4	0.58	<0.1	<0.02
AA068010	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.
AA068011	Soil	23.2	32.6	1.09	16.5	0.002	<1	2.25	0.001	0.03	<0.1	2.2	<0.02	<0.02	6	<0.1	0.07	5.8	0.30	<0.1	0.05
AA068012	Soil	22.8	23.5	0.89	24.8	0.001	<1	1.85	0.003	0.05	<0.1	2.1	0.02	<0.02	11	0.4	0.07	4.6	0.66	<0.1	0.06
AA068013	Soil	25.9	22.3	0.86	26.6	0.002	<1	1.88	0.003	0.05	<0.1	1.6	0.03	<0.02	15	<0.1	0.07	4.7	0.54	<0.1	0.06
AA068014	Soil	29.0	22.9	0.94	27.8	<0.001	<1	1.91	0.002	0.06	<0.1	2.3	0.02	<0.02	8	<0.1	0.07	4.6	0.47	<0.1	0.04
AA068015	Soil	21.4	24.0	0.97	21.1	0.001	<1	1.92	0.002	0.03	<0.1	1.9	<0.02	<0.02	5	<0.1	0.08	4.7	0.40	0.1	0.06
AA068016	Soil	18.9	19.6	0.63	24.4	0.002	<1	1.47	0.002	0.03	<0.1	2.1	0.04	<0.02	20	<0.1	0.09	3.5	0.61	<0.1	0.03
AA068017	Soil	23.1	28.4	0.91	24.9	0.003	1	2.08	0.002	0.02	<0.1	1.8	0.03	<0.02	15	0.2	0.04	5.0	0.56	<0.1	0.06
AA068018	Soil	15.5	25.6	0.64	38.6	0.008	1	1.85	0.004	0.03	<0.1	1.1	0.07	0.04	31	0.3	0.06	5.5	0.95	<0.1	<0.02
AA068019	Soil	16.6	24.4	0.62	40.3	0.008	<1	1.80	0.003	0.04	<0.1	1.0	0.05	0.04	32	0.4	0.12	5.4	1.06	<0.1	0.03
AA068020	Soil	20.8	26.5	0.77	40.7	0.003	<1	2.13	0.002	0.04	<0.1	1.6	0.06	<0.02	16	<0.1	0.04	5.6	0.95	<0.1	0.08
AA068021	Soil	20.3	21.5	0.79	19.9	0.001	1	1.82	0.002	0.03	<0.1	2.1	0.04	<0.02	17	<0.1	0.10	4.5	0.98	<0.1	0.08
AA068022	Soil	14.7	17.1	0.46	35.0	0.002	<1	1.32	0.004	0.04	<0.1	1.5	0.03	0.04	<5	<0.1	0.07	3.7	1.00	<0.1	0.08
AA068023	Soil	32.3	20.4	0.53	39.2	0.002	2	1.64	0.003	0.03	<0.1	3.3	0.04	0.05	30	0.8	0.06	3.6	0.64	<0.1	0.14
AA068024	Soil	22.6	15.4	0.47	52.1	0.003	1	1.44	0.008	0.04	<0.1	3.5	0.05	0.03	26	0.2	0.07	3.6	1.28	<0.1	0.10
AA068025	Soil	18.3	13.6	0.28	20.2	0.003	1	1.11	0.008	0.04	<0.1	1.2	0.05	0.03	9	0.2	0.03	3.1	1.54	<0.1	0.04
AA068026	Soil	15.6	20.3	0.32	27.1	0.004	2	1.65	0.006	0.03	<0.1	1.3	0.06	0.07	27	0.5	0.03	4.4	1.42	<0.1	0.16
AA068027	Soil	13.5	8.4	0.21	28.4	0.006	2	1.04	0.014	0.04	<0.1	1.2	0.06	0.03	10	0.2	0.02	2.9	1.30	<0.1	<0.02
AA068028	Soil	22.1	12.6	0.33	28.2	0.003	2	1.07	0.005	0.03	<0.1	1.6	0.04	<0.02	14	<0.1	0.05	3.0	1.35	<0.1	0.03
AA068029	Soil	22.0	15.9	0.44	30.2	0.002	1	1.30	0.002	0.04	<0.1	1.8	0.04	<0.02	<5	<0.1	0.05	3.6	1.65	<0.1	0.03
AA068030	Soil	21.0	8.9	0.23	23.1	<0.001	2	0.99	0.002	0.03	<0.1	2.4	0.02	<0.02	<5	<0.1	<0.02	2.0	2.01	<0.1	<0.02



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Project: None Given

Report Date: August 30, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA068001	Soil	0.08	2.6	0.2	<0.05	2.8	5.55	36.7	0.02	<1	0.4	64.7	<10	<2
AA068002	Soil	0.06	2.6	0.2	<0.05	5.8	3.85	32.2	0.03	<1	0.8	65.3	<10	4
AA068003	Soil	0.16	3.4	0.2	<0.05	2.6	6.09	30.1	0.02	<1	0.8	61.4	<10	<2
AA068004	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.
AA068005	Soil	0.20	4.6	0.2	<0.05	3.4	4.09	12.9	<0.02	<1	0.6	45.1	<10	3
AA068006	Soil	0.30	3.5	0.2	<0.05	2.5	2.32	29.5	0.02	<1	0.4	61.0	<10	<2
AA068007	Soil	0.28	4.4	0.2	<0.05	0.6	3.28	22.7	0.02	<1	0.2	43.7	<10	<2
AA068008	Soil	0.55	9.2	0.4	<0.05	0.6	2.10	21.1	0.04	<1	0.3	34.4	<10	<2
AA068009	Soil	0.23	4.8	0.5	<0.05	0.5	1.60	17.5	<0.02	<1	0.1	18.4	<10	<2
AA068010	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.
AA068011	Soil	<0.02	1.5	0.2	<0.05	2.9	3.85	42.5	<0.02	<1	0.5	78.1	<10	<2
AA068012	Soil	0.03	3.5	0.2	<0.05	2.6	2.80	41.2	0.02	<1	0.3	54.5	<10	<2
AA068013	Soil	0.04	3.9	0.1	<0.05	2.9	2.59	46.3	<0.02	<1	0.3	52.9	<10	<2
AA068014	Soil	<0.02	3.0	<0.1	<0.05	1.5	3.66	50.8	<0.02	<1	0.4	55.2	<10	<2
AA068015	Soil	0.02	2.4	0.1	<0.05	2.3	2.58	37.9	0.02	<1	0.5	59.4	<10	<2
AA068016	Soil	0.11	3.1	0.2	<0.05	1.8	3.86	35.8	<0.02	<1	0.4	37.2	<10	<2
AA068017	Soil	0.11	3.9	0.3	<0.05	2.0	2.19	43.5	0.02	<1	0.3	59.4	<10	2
AA068018	Soil	0.40	5.2	0.4	<0.05	0.8	2.08	29.4	0.05	<1	0.2	36.5	<10	<2
AA068019	Soil	0.40	8.2	0.4	<0.05	1.0	2.09	30.3	<0.02	<1	0.3	37.3	<10	<2
AA068020	Soil	0.20	6.1	0.3	<0.05	2.2	2.54	38.2	0.03	<1	0.5	51.8	<10	<2
AA068021	Soil	0.06	4.1	0.3	<0.05	3.2	2.73	37.1	0.03	<1	0.3	44.9	<10	<2
AA068022	Soil	0.11	5.1	0.3	<0.05	2.7	2.87	29.9	<0.02	<1	0.6	29.1	<10	<2
AA068023	Soil	0.13	4.8	0.6	<0.05	4.3	18.79	69.9	0.06	<1	0.9	35.5	<10	<2
AA068024	Soil	0.19	4.9	0.5	<0.05	4.1	14.37	41.7	0.06	<1	0.6	27.4	13	<2
AA068025	Soil	0.10	5.7	0.3	<0.05	1.6	3.78	36.7	0.02	<1	0.6	19.3	<10	<2
AA068026	Soil	0.17	3.9	0.2	<0.05	6.4	5.29	30.6	0.05	1	0.4	23.0	<10	<2
AA068027	Soil	0.15	6.2	0.3	<0.05	0.7	4.15	29.7	<0.02	<1	0.1	11.5	<10	<2
AA068028	Soil	0.08	4.1	0.2	<0.05	1.5	6.89	44.8	<0.02	<1	0.6	19.5	<10	<2
AA068029	Soil	0.08	4.6	0.2	<0.05	1.4	5.92	44.3	0.02	<1	0.5	28.1	<10	<2
AA068030	Soil	0.03	2.9	0.2	<0.05	1.7	4.78	45.1	0.03	<1	0.5	12.5	<10	<2



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Project: None Given

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
AA068031	Soil	0.36	25.98	18.67	66.2	78	28.0	17.1	451	3.09	22.0	1.6	6.2	16.0	30.1	0.02	0.84	0.39	5	0.18	0.032
AA068032	Soil	0.30	31.66	20.87	66.0	62	33.6	20.9	610	3.70	19.6	1.3	0.7	12.6	14.9	0.05	0.76	0.42	9	0.17	0.044
AA068033	Soil	0.41	39.96	33.02	81.4	180	37.5	18.6	466	4.46	25.5	1.7	3.8	7.9	19.7	0.09	1.16	0.52	12	0.30	0.088
AA068034	Soil	0.58	40.53	21.30	83.7	48	37.3	21.2	762	4.42	13.3	1.7	0.8	9.5	7.4	0.09	0.54	0.54	14	0.05	0.061
AA068035	Soil	0.82	24.82	11.73	40.9	166	12.4	6.1	171	2.59	8.6	1.0	11.8	0.5	6.2	0.12	0.43	0.39	20	0.05	0.185
AA068036	Soil	0.40	24.07	17.37	55.8	24	25.9	11.4	289	3.38	17.6	0.8	2.0	3.7	6.4	0.06	0.70	0.39	15	0.06	0.056
AA068037	Soil	0.39	43.37	38.86	92.7	178	36.0	20.6	491	3.92	18.3	1.7	2.8	5.4	21.8	0.11	0.95	0.46	11	0.43	0.077
AA068038	Soil	0.40	47.05	37.50	86.2	153	40.2	31.7	770	4.03	26.9	1.4	7.6	9.8	53.7	0.09	1.69	0.58	8	1.85	0.063
AA068039	Soil	0.45	41.07	24.57	85.8	144	37.3	25.3	533	4.12	81.8	1.9	418.2	13.9	16.2	0.08	1.11	0.51	10	0.21	0.053
AA068040	Soil	0.47	42.95	24.20	85.3	86	39.6	26.4	494	4.21	78.5	1.8	17.6	16.4	17.1	0.04	1.26	0.52	10	0.20	0.055
AA068041	Soil	0.61	52.84	33.77	90.7	135	41.3	28.3	729	4.26	96.5	1.7	20.1	15.7	24.5	0.07	1.27	0.56	9	0.45	0.056
AA068042	Soil	0.48	47.83	44.98	102.8	98	34.4	29.6	723	4.13	18.0	2.2	4.1	9.5	12.1	0.08	0.73	0.51	10	0.10	0.060
AA068043	Soil	0.44	43.18	32.40	87.9	171	36.2	21.1	502	4.10	24.7	1.6	6.5	11.4	13.1	0.10	0.77	0.43	12	0.17	0.048
AA068044	Soil	0.41	34.47	51.64	92.3	223	24.4	22.0	1553	3.39	43.4	1.6	7.9	5.1	15.5	0.29	0.72	0.36	10	0.20	0.108
AA068045	Soil	0.37	40.22	28.93	84.8	165	33.3	17.2	454	3.93	62.4	1.5	29.6	9.6	12.1	0.08	0.85	0.38	10	0.13	0.044
AA068046	Soil	0.34	39.67	32.05	84.3	227	29.6	15.7	311	3.51	25.0	1.7	8.8	7.6	31.8	0.06	0.71	0.38	10	0.65	0.059
AA068047	Soil	2.55	38.04	21.99	40.5	130	34.8	16.8	562	2.97	54.0	1.1	11.3	6.4	69.0	0.10	6.43	0.26	7	7.10	0.065
AA068048	Soil	1.05	51.53	36.63	99.9	151	35.9	24.8	689	3.71	40.1	1.1	13.2	10.5	26.0	0.12	1.41	0.49	11	0.48	0.046
AA068049	Soil	0.45	42.94	33.53	96.7	84	38.2	26.5	716	4.03	34.5	1.1	6.5	11.8	20.0	0.06	0.72	0.57	11	0.19	0.046
AA068050	Soil	0.48	48.21	31.83	100.6	140	42.4	19.1	490	4.42	42.0	1.4	10.8	11.9	19.0	0.08	1.00	0.47	13	0.30	0.042
AA068051	Soil	0.49	74.54	62.79	96.4	155	38.9	41.9	1600	4.19	27.2	3.8	2.1	11.4	24.0	0.07	1.03	0.73	15	0.45	0.061
AA068052	Soil	0.47	47.14	37.76	91.8	63	41.2	23.6	663	4.02	14.1	1.4	0.5	7.5	30.0	0.07	0.89	0.54	15	0.42	0.070
AA068053	Soil	0.71	56.69	59.96	89.2	67	36.2	34.3	1404	3.88	14.7	1.9	0.7	10.7	9.6	0.07	0.69	0.54	14	0.08	0.039
AA068054	Soil	0.55	64.15	53.23	93.5	72	36.2	24.4	1065	3.96	18.4	1.8	1.5	9.7	10.4	0.06	0.89	0.66	14	0.14	0.050
AA068055	Soil	0.30	42.57	25.20	77.6	126	26.1	11.2	433	2.77	9.9	2.1	0.7	1.8	65.9	0.13	0.64	0.31	11	2.60	0.125
AA068056	Soil	0.47	25.82	14.24	67.5	47	30.9	13.2	688	3.34	11.6	0.9	0.3	0.5	19.5	0.09	0.32	0.37	20	0.51	0.089
AA068057	Soil	0.28	6.24	3.63	22.8	66	8.0	3.4	199	1.08	2.6	0.5	<0.2	0.1	12.6	0.10	0.12	0.12	10	0.24	0.072
AA068058	Soil	0.39	9.01	4.06	33.1	54	13.2	5.0	202	1.69	2.3	0.5	<0.2	0.4	14.1	0.09	0.12	0.21	12	0.18	0.097
AA068059	Soil	0.46	25.13	15.80	92.2	95	26.2	9.0	245	3.03	13.1	4.4	1.7	3.9	25.7	0.08	0.31	0.37	14	0.43	0.083
AA068060	Soil	0.26	18.54	11.96	37.9	121	11.6	5.8	184	1.52	10.3	4.8	<0.2	1.1	21.6	0.05	0.23	0.21	9	0.43	0.068



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA068031	Soil	12.0	6.9	0.11	25.5	<0.001	1	0.42	0.004	0.05	<0.1	2.8	0.03	<0.02	13	<0.1	<0.02	0.9	1.82	<0.1	0.12
AA068032	Soil	21.9	16.1	0.57	21.8	0.002	2	1.37	0.002	0.03	<0.1	2.0	0.02	<0.02	9	<0.1	0.04	3.4	0.57	<0.1	0.08
AA068033	Soil	25.8	17.2	0.67	29.5	0.002	2	1.46	0.002	0.04	<0.1	4.0	0.03	<0.02	22	0.3	0.06	4.0	0.65	<0.1	0.18
AA068034	Soil	24.9	22.3	0.77	21.9	0.003	1	1.89	0.003	0.04	<0.1	2.0	0.04	<0.02	12	0.3	0.06	5.1	0.56	<0.1	0.07
AA068035	Soil	13.7	15.1	0.20	34.4	0.004	3	0.99	0.003	0.05	<0.1	0.4	0.07	0.11	60	0.4	0.05	4.1	1.32	<0.1	<0.02
AA068036	Soil	23.8	16.5	0.49	27.2	0.004	2	1.36	0.001	0.03	<0.1	1.1	0.04	0.02	11	0.2	0.04	4.0	0.80	<0.1	0.02
AA068037	Soil	22.3	17.8	0.53	35.1	0.002	2	1.37	0.003	0.05	<0.1	3.3	0.04	0.04	40	0.4	0.04	3.7	0.97	<0.1	0.12
AA068038	Soil	20.5	13.9	0.52	26.4	0.001	1	1.18	0.002	0.03	<0.1	2.8	0.03	<0.02	38	0.4	0.07	3.3	0.63	<0.1	0.11
AA068039	Soil	28.5	16.1	0.56	22.5	0.001	1	1.26	0.002	0.04	<0.1	2.7	0.03	<0.02	25	0.2	0.06	3.2	0.63	<0.1	0.13
AA068040	Soil	40.1	16.3	0.57	22.0	0.002	2	1.30	0.002	0.04	<0.1	2.8	0.03	<0.02	15	0.2	0.04	3.4	0.75	0.1	0.19
AA068041	Soil	34.6	16.3	0.54	37.4	0.001	3	1.33	0.002	0.05	<0.1	4.0	0.04	<0.02	31	0.5	0.11	3.5	1.25	<0.1	0.09
AA068042	Soil	20.7	20.1	0.55	24.7	0.002	<1	1.50	0.003	0.04	<0.1	2.0	0.04	0.03	26	<0.1	0.05	3.8	1.25	<0.1	0.04
AA068043	Soil	22.2	21.1	0.61	30.1	0.002	1	1.62	0.002	0.05	<0.1	2.5	0.03	0.02	37	0.2	0.03	4.0	1.18	<0.1	0.11
AA068044	Soil	12.7	17.1	0.36	61.7	0.002	2	1.32	0.005	0.06	<0.1	1.6	0.06	0.08	61	<0.1	<0.02	3.7	1.79	<0.1	0.10
AA068045	Soil	19.0	19.0	0.52	31.7	<0.001	<1	1.59	0.002	0.06	<0.1	2.0	0.04	0.02	23	0.2	0.04	3.9	1.52	<0.1	0.10
AA068046	Soil	11.3	16.5	0.45	43.2	0.001	<1	1.44	0.004	0.07	<0.1	2.1	0.04	0.05	31	0.2	0.02	3.4	1.35	<0.1	0.21
AA068047	Soil	7.7	6.1	2.01	20.5	<0.001	<1	0.51	0.002	0.05	<0.1	4.7	0.11	0.04	19	0.4	0.02	0.9	0.81	<0.1	0.15
AA068048	Soil	19.8	16.5	0.74	30.9	<0.001	<1	1.42	0.003	0.05	<0.1	2.6	0.05	<0.02	17	0.2	0.08	3.5	1.01	<0.1	0.09
AA068049	Soil	22.3	19.6	0.72	27.6	<0.001	<1	1.62	0.003	0.05	<0.1	2.2	0.03	<0.02	9	0.3	0.07	4.3	0.89	<0.1	0.10
AA068050	Soil	20.9	25.7	0.80	33.1	<0.001	<1	2.01	0.003	0.07	<0.1	2.9	0.03	<0.02	15	0.1	0.04	5.1	1.06	<0.1	0.16
AA068051	Soil	14.4	24.5	0.79	48.1	0.001	<1	2.24	0.005	0.06	<0.1	2.9	0.06	0.03	25	0.4	0.08	5.7	1.41	<0.1	0.14
AA068052	Soil	17.9	27.2	0.85	52.2	0.011	2	2.24	0.006	0.05	<0.1	1.7	0.04	0.03	16	<0.1	0.04	5.8	0.82	<0.1	0.04
AA068053	Soil	20.0	25.5	0.77	36.6	0.002	<1	1.98	0.005	0.03	<0.1	1.8	0.05	<0.02	18	<0.1	0.05	5.5	0.88	<0.1	0.07
AA068054	Soil	18.3	25.6	0.72	39.7	0.001	1	2.09	0.005	0.04	<0.1	1.9	0.03	<0.02	29	<0.1	0.07	5.4	1.03	<0.1	0.09
AA068055	Soil	14.2	16.7	0.45	54.6	0.004	3	1.41	0.009	0.05	<0.1	1.4	0.03	0.11	23	0.4	0.04	3.7	0.46	<0.1	0.12
AA068056	Soil	11.4	29.3	0.63	50.8	0.007	1	1.78	0.013	0.05	<0.1	0.7	0.05	0.06	22	0.3	0.03	5.3	0.76	<0.1	<0.02
AA068057	Soil	5.6	9.4	0.21	37.0	0.005	1	0.95	0.024	0.03	<0.1	0.3	0.04	0.07	22	0.2	<0.02	3.2	0.61	<0.1	<0.02
AA068058	Soil	9.1	14.5	0.34	53.7	0.003	1	1.21	0.015	0.04	<0.1	0.4	0.06	0.08	17	0.2	<0.02	4.2	0.91	<0.1	0.03
AA068059	Soil	13.2	24.0	0.63	33.4	0.005	1	1.74	0.007	0.05	<0.1	1.8	0.03	0.06	13	0.5	0.02	4.6	0.71	<0.1	0.11
AA068060	Soil	7.0	9.8	0.24	31.1	0.007	2	1.18	0.025	0.03	<0.1	0.9	0.03	0.07	14	0.3	<0.02	3.2	0.40	<0.1	0.05



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Client: **Golden Predator Mining Corp.**

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Project: None Given

Report Date: August 30, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA068031	Soil	<0.02	2.4	0.6	<0.05	7.2	4.51	25.3	<0.02	<1	0.7	3.3	18	<2
AA068032	Soil	0.05	1.8	0.1	<0.05	4.8	6.96	43.8	<0.02	<1	0.4	38.2	<10	<2
AA068033	Soil	0.09	2.9	0.2	<0.05	5.8	17.80	46.5	0.05	<1	0.3	43.3	<10	<2
AA068034	Soil	0.08	4.0	0.1	<0.05	2.3	6.21	47.4	0.02	<1	0.4	55.3	<10	<2
AA068035	Soil	0.23	6.3	0.4	<0.05	0.3	2.62	26.7	<0.02	<1	0.2	13.1	<10	<2
AA068036	Soil	0.17	3.6	0.2	<0.05	1.4	3.72	49.6	0.02	<1	0.4	34.8	<10	<2
AA068037	Soil	0.12	3.9	0.3	<0.05	4.5	15.26	40.8	0.04	<1	0.4	33.4	<10	3
AA068038	Soil	0.03	1.8	<0.1	<0.05	5.9	10.37	41.3	0.02	<1	0.7	34.4	<10	<2
AA068039	Soil	0.03	2.0	0.5	<0.05	7.5	9.72	59.1	<0.02	<1	0.6	34.4	<10	<2
AA068040	Soil	0.03	2.2	0.5	<0.05	11.5	9.70	78.0	0.02	<1	0.3	35.4	<10	<2
AA068041	Soil	0.04	3.4	0.6	<0.05	9.6	11.98	64.6	0.03	<1	0.7	35.6	<10	<2
AA068042	Soil	0.05	3.3	0.1	<0.05	1.8	5.48	42.1	<0.02	2	0.5	35.6	<10	<2
AA068043	Soil	0.09	3.3	0.3	<0.05	4.1	9.07	44.3	0.02	<1	0.4	40.4	<10	<2
AA068044	Soil	0.08	5.1	0.3	<0.05	3.2	6.45	26.5	<0.02	1	0.4	25.7	<10	<2
AA068045	Soil	0.04	4.7	0.7	<0.05	4.1	6.72	38.1	0.03	<1	0.5	37.6	<10	<2
AA068046	Soil	0.08	4.3	0.3	<0.05	7.6	8.25	21.3	<0.02	<1	0.6	29.0	<10	<2
AA068047	Soil	<0.02	2.1	0.3	<0.05	9.8	11.29	15.8	0.02	2	0.6	8.1	<10	<2
AA068048	Soil	0.02	2.9	0.4	<0.05	6.1	6.34	37.1	<0.02	<1	0.7	35.2	<10	2
AA068049	Soil	<0.02	2.4	0.2	<0.05	8.2	5.24	43.9	<0.02	<1	0.7	45.9	<10	<2
AA068050	Soil	0.03	3.3	0.5	<0.05	8.9	6.94	41.5	<0.02	<1	0.4	54.7	<10	3
AA068051	Soil	0.17	5.4	0.4	<0.05	5.7	14.59	26.7	0.03	<1	1.0	54.9	<10	<2
AA068052	Soil	0.55	4.0	2.8	<0.05	2.2	4.57	34.2	<0.02	<1	0.6	61.6	<10	<2
AA068053	Soil	0.06	3.2	0.5	<0.05	2.6	5.51	37.9	<0.02	<1	0.7	60.0	<10	<2
AA068054	Soil	0.06	4.0	0.5	<0.05	3.2	6.29	33.5	<0.02	<1	0.5	59.5	<10	<2
AA068055	Soil	0.33	3.2	0.3	<0.05	3.5	12.19	22.3	0.02	<1	0.4	28.9	<10	<2
AA068056	Soil	0.44	5.0	0.7	<0.05	0.4	3.32	22.2	<0.02	<1	0.5	36.2	<10	<2
AA068057	Soil	0.25	3.9	0.3	<0.05	0.3	1.22	10.7	<0.02	<1	<0.1	13.6	<10	<2
AA068058	Soil	0.27	5.5	0.3	<0.05	0.9	1.28	17.1	<0.02	<1	0.3	22.2	<10	<2
AA068059	Soil	0.31	7.7	0.3	<0.05	3.2	3.62	25.6	<0.02	<1	0.4	44.2	<10	<2
AA068060	Soil	0.37	3.4	0.2	<0.05	1.9	3.52	13.9	<0.02	<1	0.3	17.0	<10	<2



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
AA068061	Soil	0.34	19.67	15.69	95.3	128	39.5	15.4	449	3.98	19.3	0.9	0.4	6.9	11.9	0.13	0.27	0.35	15	0.23	0.068
AA068062	Soil	0.73	26.71	23.05	81.1	23	38.4	19.0	596	3.99	19.6	0.9	0.6	9.1	6.6	0.04	0.37	0.47	14	0.04	0.024
AA068063	Soil	0.55	20.61	18.17	57.2	49	23.0	10.9	576	3.18	12.7	0.6	<0.2	1.7	3.7	0.06	0.30	0.34	14	0.02	0.085
AA068064	Soil	0.30	30.13	22.56	79.6	20	36.1	16.6	567	3.84	17.2	0.5	<0.2	9.2	5.2	0.04	0.35	0.44	13	0.02	0.040
AA068065	Soil	0.35	18.65	11.02	65.3	22	30.2	9.8	298	3.33	11.6	0.4	0.6	6.1	3.6	0.02	0.26	0.35	15	<0.01	0.052
AA068066	Soil	0.69	19.38	13.38	50.0	73	18.1	9.4	520	2.86	13.7	0.7	0.5	2.0	4.8	0.03	0.43	0.36	20	0.02	0.084
AA068067	Soil	0.28	38.46	15.34	71.7	67	29.7	17.0	1075	3.25	31.5	0.4	1.7	5.3	27.6	0.10	0.47	0.31	9	5.27	0.041
AA068068	Soil	0.81	33.93	16.03	70.2	21	29.8	9.1	242	3.01	22.0	0.7	0.7	4.0	7.8	0.03	0.54	0.43	13	0.06	0.066
AA068069	Soil	0.86	38.54	27.17	89.4	67	32.2	20.2	521	3.93	32.2	4.0	3.4	5.1	19.3	0.07	0.72	0.63	16	0.18	0.064
AA068070	Soil	1.24	19.55	24.26	56.0	32	18.6	8.4	438	2.73	14.6	0.7	<0.2	0.5	6.7	0.05	0.56	0.48	22	0.02	0.077
AA068071	Soil	0.33	23.57	22.12	40.0	71	19.2	8.7	145	2.63	14.7	1.6	4.9	6.4	12.4	0.01	0.60	0.29	10	0.15	0.055
AA068072	Soil	0.13	16.07	9.94	25.9	114	10.0	5.7	149	1.26	7.2	1.0	3.3	3.1	11.5	0.02	0.33	0.14	7	0.13	0.047
AA068073	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.
AA068074	Soil	0.40	29.33	50.66	73.3	199	26.4	13.2	553	3.13	17.4	2.4	3.0	2.0	68.9	0.20	1.13	0.39	11	1.52	0.163
AA068075	Soil	0.46	36.85	44.22	89.4	105	40.0	15.8	481	4.28	18.6	2.4	2.6	4.6	38.0	0.15	1.62	0.43	10	0.76	0.084
AA068076	Soil	0.39	20.94	23.08	56.5	87	23.0	8.7	261	2.71	11.9	1.4	1.3	2.7	24.0	0.14	1.05	0.31	14	0.34	0.071
AA068077	Soil	0.18	11.97	9.23	32.9	40	9.3	4.0	72	1.07	3.0	0.8	<0.2	0.5	12.5	0.05	0.27	0.16	9	0.17	0.058
AA068078	Soil	0.39	23.94	23.09	45.8	63	25.5	13.4	424	2.89	10.8	1.3	1.0	5.1	22.8	0.11	0.63	0.28	9	0.46	0.069
AA068079	Soil	0.32	23.52	6.62	49.2	28	17.1	6.5	179	2.23	2.8	0.7	0.6	2.6	9.2	0.05	0.19	0.23	16	0.12	0.063
AA068080	Soil	0.38	25.88	23.67	56.0	85	21.8	11.6	460	2.72	10.0	1.3	1.5	6.9	16.8	0.09	0.64	0.31	16	0.21	0.071
AA068081	Soil	0.24	18.94	12.74	35.4	78	17.2	9.3	235	2.22	9.3	1.3	1.2	4.7	10.5	0.03	0.50	0.22	12	0.12	0.063
AA068082	Soil	0.32	27.76	22.80	48.1	61	37.4	19.1	385	3.72	20.6	1.3	2.6	12.4	21.0	0.07	1.23	0.37	10	0.29	0.050
AA068083	Soil	0.38	35.35	29.98	48.9	153	40.6	20.3	413	3.87	22.8	1.6	5.5	10.2	113.7	0.09	1.61	0.41	9	3.88	0.081
AA068084	Soil	0.45	36.60	36.20	35.4	202	41.2	19.0	188	4.29	29.4	2.3	12.2	8.9	283.8	0.04	4.12	0.45	6	10.08	0.080
AA068085	Soil	0.46	31.54	36.91	40.3	168	32.7	17.3	406	3.22	20.5	2.4	7.5	9.8	453.2	0.18	2.96	0.35	7	12.87	0.099
AA068086	Soil	0.51	34.36	22.12	57.8	64	31.2	14.7	413	3.87	12.6	1.4	1.7	5.7	6.4	0.06	1.79	0.36	15	0.06	0.075
AA068087	Soil	0.43	29.04	29.01	36.7	138	28.4	14.8	507	3.26	20.5	2.0	6.0	4.0	321.0	0.10	2.26	0.33	6	14.81	0.086
AA068088	Soil	0.59	71.70	46.63	89.6	159	50.5	53.0	489	4.63	33.3	2.0	5.9	12.9	21.5	0.08	1.58	0.58	10	0.40	0.061
AA068089	Soil	0.62	77.47	48.27	94.7	176	54.3	61.3	613	4.61	34.7	1.9	6.9	13.4	33.4	0.09	1.63	0.59	10	0.80	0.066
AA068090	Soil	0.30	27.88	15.92	47.4	94	20.3	17.4	647	2.44	54.1	1.6	16.2	8.8	10.5	0.07	0.55	0.21	20	0.14	0.064



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Project: None Given

Report Date: August 30, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000177.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA068061	Soil	18.9	31.7	0.97	20.5	0.002	2	1.98	0.007	0.05	<0.1	2.1	<0.02	0.04	10	0.1	0.03	5.4	0.49	<0.1	0.08
AA068062	Soil	27.6	26.2	0.99	42.3	0.001	<1	2.12	0.003	0.05	<0.1	1.6	0.03	<0.02	11	0.2	0.08	5.1	0.71	<0.1	0.06
AA068063	Soil	14.8	21.2	0.56	24.1	0.004	1	1.43	0.006	0.03	<0.1	0.7	0.04	0.03	14	0.1	0.07	4.4	0.61	<0.1	0.04
AA068064	Soil	28.9	22.6	0.97	21.9	0.001	1	2.00	0.002	0.04	<0.1	1.3	0.03	<0.02	<5	0.2	0.06	5.0	0.57	<0.1	0.07
AA068065	Soil	25.8	23.0	0.85	28.4	0.002	<1	1.86	0.003	0.05	<0.1	1.1	0.04	<0.02	15	0.1	0.05	5.3	0.71	<0.1	0.09
AA068066	Soil	20.7	21.9	0.45	34.0	0.004	1	1.52	0.005	0.04	<0.1	0.8	0.08	0.04	25	0.4	0.05	5.7	1.10	<0.1	0.03
AA068067	Soil	15.6	12.6	0.47	33.8	<0.001	<1	1.12	0.003	0.05	<0.1	4.2	0.02	<0.02	7	0.1	0.09	2.5	0.82	<0.1	<0.02
AA068068	Soil	21.5	22.0	0.82	29.7	0.003	<1	1.90	0.004	0.03	<0.1	1.7	0.04	0.03	14	0.2	0.04	4.5	0.84	<0.1	0.10
AA068069	Soil	24.8	27.1	1.01	28.6	0.008	<1	2.16	0.006	0.04	<0.1	2.7	0.04	<0.02	14	0.4	0.09	5.4	1.07	<0.1	0.08
AA068070	Soil	22.1	21.3	0.42	43.1	0.011	3	1.40	0.008	0.05	0.2	0.6	0.10	0.04	33	0.3	<0.02	5.4	1.67	<0.1	<0.02
AA068071	Soil	17.7	11.3	0.31	54.2	0.004	<1	1.42	0.015	0.04	<0.1	2.3	0.06	<0.02	19	0.2	<0.02	3.4	1.34	<0.1	0.08
AA068072	Soil	9.0	5.4	0.15	28.3	0.007	<1	0.88	0.036	0.04	<0.1	1.4	0.03	<0.02	16	0.2	<0.02	1.9	0.73	<0.1	0.03
AA068073	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.
AA068074	Soil	22.7	11.5	0.21	69.2	0.005	<1	1.19	0.007	0.03	<0.1	2.7	0.06	0.12	70	0.6	0.07	2.5	0.41	<0.1	0.06
AA068075	Soil	26.0	12.3	0.40	54.0	0.002	<1	1.08	0.005	0.03	<0.1	4.6	0.05	0.05	46	0.5	0.04	2.4	0.63	<0.1	0.10
AA068076	Soil	21.9	12.5	0.31	62.2	0.008	1	1.28	0.016	0.04	<0.1	2.4	0.07	0.03	18	0.4	0.04	3.4	0.92	<0.1	<0.02
AA068077	Soil	10.4	7.3	0.18	39.6	0.008	1	0.96	0.030	0.03	<0.1	0.7	0.05	0.02	17	0.2	<0.02	2.2	0.64	<0.1	<0.02
AA068078	Soil	22.3	12.9	0.46	39.7	0.004	1	1.36	0.007	0.03	<0.1	2.1	0.03	0.05	37	0.3	0.03	3.0	0.35	<0.1	0.09
AA068079	Soil	17.6	11.8	0.33	29.0	0.012	<1	1.13	0.015	0.04	<0.1	1.1	0.06	0.03	23	0.1	<0.02	3.1	0.96	<0.1	<0.02
AA068080	Soil	17.8	13.7	0.39	34.4	0.014	<1	1.25	0.020	0.05	<0.1	2.5	0.06	0.04	30	0.4	0.03	3.3	0.94	<0.1	0.03
AA068081	Soil	18.7	10.2	0.28	36.9	0.009	<1	1.11	0.019	0.04	<0.1	1.6	0.04	<0.02	19	0.3	<0.02	2.7	0.67	<0.1	0.03
AA068082	Soil	30.3	15.5	0.58	24.1	0.002	<1	1.21	0.003	0.03	<0.1	2.4	<0.02	<0.02	17	0.3	0.04	3.2	0.37	<0.1	0.11
AA068083	Soil	24.1	15.1	0.53	28.6	0.003	<1	1.11	0.004	0.04	<0.1	3.3	0.03	<0.02	42	0.3	0.05	2.9	0.66	<0.1	0.08
AA068084	Soil	16.8	8.5	0.33	19.3	0.001	<1	0.64	0.004	0.03	<0.1	3.7	0.02	<0.02	41	0.5	0.08	1.4	0.46	<0.1	0.10
AA068085	Soil	26.5	8.1	0.32	21.7	0.004	2	0.55	0.006	0.04	<0.1	5.1	0.04	0.03	44	0.5	0.07	1.2	0.53	<0.1	0.10
AA068086	Soil	15.6	24.6	0.65	37.0	0.003	<1	1.60	0.006	0.04	<0.1	2.0	0.06	0.06	44	0.4	0.03	4.8	0.80	<0.1	0.06
AA068087	Soil	17.3	8.7	0.31	36.5	0.002	1	0.59	0.008	0.05	0.2	3.0	0.04	0.04	104	0.5	0.12	1.2	0.66	<0.1	0.06
AA068088	Soil	31.0	19.5	0.71	26.7	0.002	1	1.50	0.003	0.03	<0.1	3.0	0.04	0.03	28	0.3	0.05	3.7	0.98	<0.1	0.20
AA068089	Soil	29.4	18.9	0.70	28.2	0.002	1	1.51	0.007	0.03	<0.1	3.2	0.04	0.02	24	0.3	0.05	3.6	1.08	<0.1	0.18
AA068090	Soil	19.2	11.9	0.31	34.7	0.015	1	1.07	0.014	0.04	<0.1	1.8	0.04	0.03	37	0.4	<0.02	2.9	1.00	<0.1	0.04



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Project: None Given

Report Date: August 30, 2016

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# CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA068061	Soil	0.06	3.7	0.2	<0.05	2.5	3.09	35.6	0.02	<1	0.1	65.6	<10	<2
AA068062	Soil	0.06	4.8	0.5	<0.05	2.5	3.11	51.7	0.02	<1	0.4	63.5	<10	<2
AA068063	Soil	0.16	4.2	0.1	<0.05	1.3	1.73	28.2	<0.02	<1	0.3	37.8	<10	<2
AA068064	Soil	0.04	4.0	<0.1	<0.05	3.0	2.11	52.4	<0.02	<1	0.2	59.4	<10	<2
AA068065	Soil	0.13	6.2	0.2	<0.05	3.1	1.39	46.9	<0.02	<1	<0.1	50.6	<10	<2
AA068066	Soil	0.30	6.6	0.4	<0.05	1.2	1.92	38.6	<0.02	<1	0.1	28.4	<10	<2
AA068067	Soil	0.04	3.2	0.4	<0.05	0.8	9.16	29.1	0.02	<1	0.3	22.6	<10	<2
AA068068	Soil	0.12	4.1	0.1	<0.05	3.5	3.30	38.0	<0.02	<1	0.4	48.2	<10	<2
AA068069	Soil	0.22	6.3	0.2	<0.05	2.4	5.78	46.6	0.03	<1	0.4	59.7	<10	<2
AA068070	Soil	0.17	9.8	0.8	<0.05	0.2	2.17	41.7	0.02	<1	0.3	23.4	<10	<2
AA068071	Soil	0.25	4.8	0.3	<0.05	3.4	8.93	35.2	0.03	<1	0.5	19.4	<10	<2
AA068072	Soil	0.18	2.9	0.1	<0.05	1.4	5.13	17.6	<0.02	<1	0.2	8.4	<10	<2
AA068073	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.
AA068074	Soil	0.38	3.5	0.4	<0.05	2.5	14.42	55.8	0.06	<1	0.7	11.8	<10	<2
AA068075	Soil	0.16	3.6	0.3	<0.05	3.5	12.53	90.2	0.07	<1	0.8	21.7	<10	<2
AA068076	Soil	0.23	5.8	0.4	<0.05	0.8	9.96	47.2	0.04	<1	0.6	19.4	<10	<2
AA068077	Soil	0.15	4.2	0.4	<0.05	0.2	3.68	20.2	<0.02	<1	0.3	11.9	<10	<2
AA068078	Soil	0.20	2.2	0.3	<0.05	3.5	7.38	48.7	0.05	<1	0.6	25.9	<10	<2
AA068079	Soil	0.20	5.9	0.2	<0.05	0.5	2.73	32.7	<0.02	<1	0.3	18.6	<10	<2
AA068080	Soil	0.27	5.9	0.4	<0.05	2.1	10.64	35.5	0.03	<1	0.4	21.0	<10	<2
AA068081	Soil	0.17	4.1	0.3	<0.05	1.4	6.87	37.0	<0.02	<1	0.4	18.1	<10	<2
AA068082	Soil	0.05	1.6	0.2	<0.05	6.5	9.20	58.9	<0.02	<1	0.5	31.9	<10	<2
AA068083	Soil	0.08	2.4	0.6	<0.05	5.4	12.20	45.0	0.03	<1	0.5	30.3	<10	<2
AA068084	Soil	0.05	1.8	0.2	<0.05	6.5	11.39	29.9	0.03	<1	0.5	15.8	<10	<2
AA068085	Soil	0.11	3.0	2.3	<0.05	8.6	15.52	48.4	0.03	<1	0.6	12.6	<10	<2
AA068086	Soil	0.16	5.4	0.3	<0.05	2.4	4.67	32.9	<0.02	<1	0.1	36.9	<10	2
AA068087	Soil	0.06	3.3	1.3	<0.05	2.2	18.75	35.4	0.05	<1	0.5	13.4	<10	<2
AA068088	Soil	0.05	2.4	0.4	<0.05	9.3	12.62	56.4	0.03	<1	0.7	46.6	<10	<2
AA068089	Soil	0.04	2.1	0.3	<0.05	10.3	13.09	55.5	0.03	<1	0.5	47.2	<10	<2
AA068090	Soil	0.11	3.7	0.4	<0.05	1.6	7.09	40.5	<0.02	<1	0.6	20.5	<10	<2



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Project: None Given

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# CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
AA068091	Soil	0.38	37.31	31.87	80.7	123	28.1	16.1	584	3.47	61.9	1.9	18.8	13.6	14.9	0.11	0.72	0.32	14	0.21	0.062
AA068092	Soil	0.37	47.82	33.79	91.4	115	38.4	29.5	574	3.91	64.8	1.8	18.8	16.4	15.8	0.09	0.89	0.46	9	0.17	0.048
AA068093	Soil	0.31	42.71	32.28	86.1	104	34.0	27.8	550	3.62	29.8	1.5	10.4	13.3	16.3	0.05	0.72	0.37	11	0.13	0.047
AA068094	Soil	0.35	46.32	35.55	94.5	145	35.0	19.6	377	3.66	25.7	1.8	9.8	13.6	16.1	0.04	0.53	0.40	11	0.16	0.048
AA068095	Soil	0.32	36.12	25.98	82.6	62	31.7	13.1	242	3.42	23.4	1.3	8.2	8.5	10.9	0.04	0.52	0.37	11	0.11	0.049
AA068096	Soil	0.31	45.06	31.89	100.5	92	41.5	29.8	603	3.92	27.6	1.4	6.0	14.6	27.2	0.06	0.67	0.42	11	0.53	0.048
AA068097	Soil	0.27	40.47	29.54	91.4	108	38.3	20.8	401	3.91	46.2	1.3	40.7	14.3	16.4	0.06	0.78	0.40	10	0.17	0.045
AA068098	Soil	0.43	46.44	30.57	98.3	96	38.5	22.2	514	4.06	34.4	1.3	7.7	11.8	27.9	0.07	1.04	0.55	10	0.61	0.051
AA068099	Soil	0.57	48.15	32.66	95.6	121	40.2	22.7	570	4.23	40.9	1.2	8.8	12.3	29.3	0.08	1.08	0.53	11	0.52	0.049
AA068100	Soil	0.43	45.79	28.94	94.8	97	42.3	23.1	613	4.38	47.7	1.2	11.1	12.6	24.7	0.05	1.08	0.48	11	0.49	0.054
AA068101	Soil	0.39	42.48	32.05	87.9	100	40.7	23.1	637	4.04	33.3	1.6	3.8	13.6	16.7	0.06	0.72	0.45	13	0.20	0.050
AA068102	Soil	0.40	49.51	32.51	72.6	89	31.5	20.0	549	3.24	11.2	1.9	1.5	6.8	18.7	0.05	0.36	0.39	13	0.30	0.070
AA068103	Soil	0.66	18.99	18.01	62.6	115	22.7	10.4	667	2.95	11.3	0.8	0.6	1.0	7.3	0.15	0.40	0.30	16	0.05	0.099
AA068104	Soil	0.58	31.45	31.08	70.1	107	26.2	14.5	979	4.04	18.5	1.1	1.5	1.7	6.5	0.13	0.58	0.45	22	0.04	0.105
AA068105	Soil	0.71	22.63	25.72	64.1	71	22.7	12.0	797	4.48	20.2	0.9	2.1	0.5	23.0	0.10	0.56	0.42	26	0.25	0.072
AA068106	Soil	0.58	46.27	38.26	101.8	104	35.3	17.3	621	4.13	36.6	3.3	3.0	3.4	25.7	0.11	0.79	0.61	23	0.28	0.084
AA068107	Soil	0.70	27.71	25.51	79.0	77	30.1	11.6	366	4.08	33.3	1.0	1.7	0.7	14.6	0.10	0.61	0.43	22	0.12	0.069
AA068108	Soil	0.47	35.68	27.42	77.4	103	36.6	15.2	370	3.64	25.8	1.8	2.5	7.4	19.7	0.05	0.39	0.47	14	0.22	0.050
AA068109	Soil	0.62	43.10	47.40	99.9	53	43.9	25.4	994	5.10	20.0	0.6	1.3	4.2	5.5	0.11	0.52	0.53	19	0.05	0.097
AA068110	Soil	0.57	36.73	34.00	81.5	39	35.1	21.3	743	4.46	21.0	0.7	1.3	5.3	4.1	0.07	0.48	0.53	16	0.02	0.063
AA068111	Soil	0.43	36.12	24.12	82.3	44	34.5	11.4	577	4.31	16.5	0.6	0.7	3.8	3.4	0.07	0.37	0.39	18	0.02	0.104
AA068112	Soil	0.35	58.31	26.82	89.8	21	43.7	19.8	679	4.27	15.4	0.5	1.1	6.9	6.8	0.06	0.33	0.50	17	0.06	0.045
AA068113	Soil	1.87	14.12	10.90	35.1	44	10.5	5.1	342	1.74	6.0	0.8	0.9	0.3	5.5	0.04	0.32	0.25	20	0.02	0.071
AA068114	Soil	0.76	36.23	19.22	86.6	63	30.6	12.0	501	3.29	20.2	3.0	2.4	3.9	18.5	0.05	0.40	0.47	18	0.15	0.111
AA068115	Soil	0.97	62.50	37.82	92.4	92	34.4	18.0	589	4.10	47.2	8.9	3.3	8.9	47.0	0.05	0.68	0.73	16	0.46	0.116
AA068116	Soil	0.51	51.72	23.75	81.0	20	40.9	25.1	813	4.02	23.3	1.3	2.0	7.6	10.0	0.05	0.59	0.48	17	0.05	0.053
AA068117	Soil	0.26	10.86	8.59	15.9	40	5.3	2.9	79	0.92	5.4	0.5	1.3	0.2	5.3	0.02	0.13	0.12	10	0.05	0.054
AA068118	Soil	0.73	41.71	31.65	90.8	42	35.3	18.3	604	3.54	23.3	1.0	4.9	4.8	8.2	0.11	0.55	0.45	22	0.05	0.049
AA068119	Soil	0.36	19.51	12.03	47.4	45	16.7	10.4	298	2.74	23.0	1.1	8.6	3.8	10.4	0.05	0.41	0.26	9	0.06	0.061
AA068120	Soil	0.19	21.23	13.47	50.1	41	24.0	16.9	338	3.22	25.3	1.9	3.1	16.6	14.3	0.03	0.42	0.29	5	0.08	0.022



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Project: None Given

Report Date: August 30, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA068091	Soil	31.0	13.6	0.38	30.8	0.008	<1	1.12	0.007	0.04	<0.1	2.9	0.04	<0.02	33	0.3	<0.02	3.0	0.84	<0.1	0.09
AA068092	Soil	28.6	18.5	0.61	29.9	0.001	1	1.49	0.003	0.04	<0.1	2.5	0.03	<0.02	19	<0.1	0.04	3.7	1.03	<0.1	0.14
AA068093	Soil	20.5	18.8	0.58	32.2	0.002	<1	1.49	0.005	0.03	<0.1	1.9	0.02	<0.02	11	0.1	0.03	3.9	0.87	<0.1	0.09
AA068094	Soil	15.1	22.0	0.64	33.0	0.002	<1	1.82	0.006	0.05	<0.1	2.0	0.04	<0.02	23	0.1	0.03	4.4	1.56	<0.1	0.06
AA068095	Soil	14.0	20.2	0.60	43.0	0.002	1	1.79	0.007	0.05	<0.1	1.7	0.04	0.02	19	0.2	0.04	4.5	1.56	<0.1	0.06
AA068096	Soil	25.1	20.8	0.66	24.8	0.001	<1	1.61	0.003	0.06	<0.1	2.1	0.03	<0.02	9	0.1	<0.02	4.0	0.87	<0.1	0.15
AA068097	Soil	26.9	20.4	0.66	25.9	0.001	<1	1.59	0.002	0.04	<0.1	2.3	0.02	<0.02	7	0.3	0.05	4.0	0.70	<0.1	0.14
AA068098	Soil	25.1	17.6	0.61	22.0	<0.001	<1	1.37	0.002	0.04	<0.1	2.7	0.03	<0.02	18	0.2	0.07	3.4	0.87	<0.1	0.13
AA068099	Soil	25.3	19.6	0.68	28.1	<0.001	<1	1.59	0.004	0.05	<0.1	3.0	0.03	<0.02	14	0.3	0.09	3.9	1.09	<0.1	0.13
AA068100	Soil	24.7	21.5	0.73	27.7	0.001	<1	1.64	0.004	0.05	<0.1	2.8	0.03	<0.02	8	<0.1	0.07	4.1	0.74	<0.1	0.11
AA068101	Soil	19.4	26.1	0.77	32.6	0.001	<1	1.88	0.003	0.04	<0.1	2.2	0.03	<0.02	12	0.2	0.07	5.2	0.53	<0.1	0.07
AA068102	Soil	14.3	21.8	0.62	63.8	0.004	<1	2.03	0.014	0.04	<0.1	1.8	0.04	0.03	25	0.2	0.05	5.3	0.92	<0.1	0.11
AA068103	Soil	13.9	21.7	0.47	54.6	0.005	<1	1.38	0.008	0.04	<0.1	0.7	0.04	0.05	20	0.3	0.04	4.7	0.71	<0.1	<0.02
AA068104	Soil	20.4	28.5	0.53	45.5	0.006	<1	1.68	0.004	0.04	<0.1	0.8	0.05	0.04	29	0.2	0.06	6.1	0.96	<0.1	0.03
AA068105	Soil	13.6	28.9	0.50	63.9	0.007	2	1.61	0.005	0.04	<0.1	0.3	0.05	0.03	22	0.3	0.05	6.7	0.83	<0.1	<0.02
AA068106	Soil	17.2	31.8	0.83	65.7	0.012	4	2.34	0.006	0.06	<0.1	2.0	0.06	0.03	21	0.3	0.09	6.2	1.67	<0.1	0.05
AA068107	Soil	14.8	32.4	0.66	48.1	0.008	1	2.08	0.005	0.03	<0.1	0.6	0.06	0.05	28	0.3	0.06	6.0	0.86	<0.1	<0.02
AA068108	Soil	16.7	26.3	0.89	23.1	0.001	1	1.81	0.003	0.03	<0.1	2.2	0.02	0.02	11	0.2	0.06	4.8	0.57	<0.1	0.09
AA068109	Soil	13.5	40.5	1.13	25.7	0.003	<1	2.50	0.003	0.02	<0.1	1.6	<0.02	0.03	8	0.3	0.07	6.4	0.91	<0.1	0.12
AA068110	Soil	19.6	29.2	0.88	24.4	0.002	<1	2.19	0.002	0.03	<0.1	1.5	0.03	<0.02	12	0.1	0.06	5.2	0.95	<0.1	0.10
AA068111	Soil	14.0	32.1	0.84	19.8	0.003	<1	2.09	0.003	0.02	<0.1	1.1	0.04	0.04	26	0.1	0.05	6.4	1.07	<0.1	0.18
AA068112	Soil	24.0	32.8	1.10	22.1	0.002	<1	2.26	0.002	0.03	<0.1	1.8	0.02	<0.02	13	0.1	0.08	5.8	0.49	<0.1	0.06
AA068113	Soil	12.3	13.2	0.22	36.5	0.004	<1	0.93	0.008	0.04	<0.1	0.3	0.07	0.05	24	<0.1	<0.02	4.2	1.31	<0.1	<0.02
AA068114	Soil	13.7	25.0	0.74	65.7	0.002	1	2.12	0.006	0.05	<0.1	1.9	0.06	0.04	9	0.4	0.09	5.5	2.63	<0.1	0.27
AA068115	Soil	11.3	28.5	0.66	75.7	<0.001	<1	2.50	0.006	0.09	<0.1	4.2	0.07	0.06	12	0.3	0.16	5.1	5.75	<0.1	0.81
AA068116	Soil	37.0	22.8	0.94	26.2	<0.001	<1	2.10	0.002	0.05	<0.1	2.0	0.04	<0.02	14	0.2	0.09	5.1	1.67	<0.1	0.06
AA068117	Soil	5.0	5.0	0.12	21.0	0.007	2	0.87	0.027	0.04	<0.1	0.4	0.03	<0.02	16	0.2	0.02	2.7	0.79	<0.1	<0.02
AA068118	Soil	22.3	26.1	0.73	42.7	0.007	<1	1.92	0.004	0.05	0.1	2.1	0.06	<0.02	11	0.3	0.10	4.8	1.42	<0.1	<0.02
AA068119	Soil	18.1	9.2	0.21	34.7	0.001	<1	1.04	0.008	0.04	<0.1	1.1	0.05	0.02	6	0.1	0.04	2.6	1.48	<0.1	0.04
AA068120	Soil	21.7	6.5	0.21	21.3	<0.001	<1	0.99	0.004	0.04	<0.1	2.8	0.02	<0.02	13	0.1	0.02	1.5	1.65	<0.1	0.07



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Project: None Given

Report Date: August 30, 2016

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# CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
AA068091	Soil	0.09	3.1	1.4	<0.05	6.6	9.87	59.2	0.02	<1	0.4	23.7	<10	<2
AA068092	Soil	<0.02	2.3	0.2	<0.05	10.6	8.39	56.3	0.03	<1	0.2	41.0	<10	<2
AA068093	Soil	0.02	2.4	0.2	<0.05	7.3	6.43	42.0	<0.02	<1	0.5	39.3	<10	<2
AA068094	Soil	0.06	4.4	0.5	<0.05	5.8	6.93	30.0	<0.02	<1	0.7	43.8	<10	<2
AA068095	Soil	0.08	5.1	0.7	<0.05	2.6	5.06	27.5	<0.02	<1	0.6	39.1	<10	<2
AA068096	Soil	<0.02	2.4	0.3	<0.05	11.0	6.31	48.3	0.02	<1	0.3	44.6	<10	2
AA068097	Soil	<0.02	2.1	0.3	<0.05	9.4	7.26	53.4	0.02	<1	0.3	44.0	<10	<2
AA068098	Soil	0.02	2.4	0.3	<0.05	8.1	6.71	46.8	<0.02	<1	0.5	35.3	<10	<2
AA068099	Soil	0.02	2.9	1.1	<0.05	8.7	6.83	46.8	0.03	<1	0.5	37.3	<10	<2
AA068100	Soil	0.02	2.1	0.2	<0.05	8.8	6.75	47.1	0.02	<1	0.5	43.7	<10	<2
AA068101	Soil	0.03	2.4	0.3	<0.05	4.4	6.56	36.5	<0.02	<1	0.4	55.4	<10	<2
AA068102	Soil	0.21	3.7	0.3	<0.05	4.3	8.37	25.6	<0.02	<1	0.6	47.9	<10	<2
AA068103	Soil	0.21	6.4	0.3	<0.05	1.1	2.70	26.8	<0.02	<1	0.3	30.6	<10	<2
AA068104	Soil	0.21	6.3	0.3	<0.05	1.0	3.67	38.5	0.03	<1	0.2	35.3	<10	<2
AA068105	Soil	0.38	6.8	0.7	<0.05	0.4	1.99	25.9	0.03	1	0.2	31.6	<10	<2
AA068106	Soil	0.37	8.5	0.9	<0.05	2.0	8.28	30.6	0.02	2	0.6	50.8	<10	<2
AA068107	Soil	0.58	4.8	0.5	<0.05	0.6	2.49	27.8	<0.02	<1	0.2	39.6	<10	<2
AA068108	Soil	0.08	2.9	0.2	<0.05	2.8	4.52	30.9	<0.02	<1	0.2	57.6	<10	<2
AA068109	Soil	0.15	2.7	0.4	<0.05	3.8	2.02	26.4	<0.02	1	0.3	70.9	<10	2
AA068110	Soil	0.17	3.7	0.3	<0.05	3.2	2.36	37.0	0.03	<1	0.5	57.4	<10	<2
AA068111	Soil	0.13	3.4	0.2	<0.05	4.9	1.41	27.3	0.02	<1	<0.1	54.9	<10	<2
AA068112	Soil	0.05	2.5	0.1	<0.05	2.2	2.52	43.6	<0.02	<1	0.4	66.1	<10	<2
AA068113	Soil	0.27	7.0	0.5	<0.05	0.3	1.69	23.8	<0.02	1	<0.1	12.6	<10	<2
AA068114	Soil	0.25	9.3	0.3	<0.05	7.9	3.76	24.6	<0.02	<1	0.4	49.3	<10	<2
AA068115	Soil	0.19	11.3	0.9	<0.05	24.9	7.96	20.8	0.03	<1	1.2	44.9	<10	<2
AA068116	Soil	0.04	4.9	0.2	<0.05	2.8	3.22	67.0	<0.02	<1	0.7	52.1	<10	3
AA068117	Soil	0.10	4.2	0.2	<0.05	0.3	1.75	9.4	<0.02	2	0.2	6.6	<10	<2
AA068118	Soil	0.25	6.2	0.4	<0.05	1.0	4.66	43.4	0.03	<1	0.4	41.4	<10	<2
AA068119	Soil	0.07	5.6	0.4	<0.05	1.3	3.04	36.1	<0.02	<1	0.3	11.6	<10	<2
AA068120	Soil	0.02	3.1	0.5	<0.05	6.1	4.57	45.8	<0.02	<1	0.4	8.9	<10	3



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Project: None Given

Report Date: August 30, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000177.1

Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
MDL		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
AA068121	Soil	0.37	29.29	16.62	66.6	13	25.6	17.5	302	3.34	27.2	1.2	3.3	4.3	7.7	0.06	0.65	0.32	7	0.04	0.048
AA068122	Soil	0.32	18.09	13.66	38.9	48	12.3	7.4	273	1.95	14.0	0.7	2.0	1.4	6.2	0.05	0.36	0.17	12	0.07	0.067
AA068123	Soil	0.42	38.87	48.51	80.9	70	31.3	24.2	935	3.73	63.5	1.8	17.7	16.9	11.0	0.07	0.80	0.34	10	0.08	0.052
AA068124	Soil	0.67	57.30	60.50	105.2	110	44.1	49.2	1281	4.63	32.7	2.3	5.3	18.5	8.8	0.07	1.07	0.46	13	0.05	0.043
AA068125	Soil	0.50	29.67	14.69	64.6	29	20.6	13.8	301	3.47	45.6	1.0	7.7	1.5	7.5	0.05	0.83	0.37	13	0.07	0.060
AA068126	Soil	0.37	21.61	17.48	49.9	67	15.8	10.1	310	2.45	48.7	1.0	6.9	2.8	9.4	0.04	0.54	0.26	12	0.06	0.059
AA068127	Soil	0.45	30.92	30.58	77.3	29	24.7	15.8	610	3.82	17.0	1.5	2.3	4.3	7.4	0.09	0.76	0.38	11	0.03	0.071
AA068128	Soil	0.57	25.27	28.64	63.7	68	21.0	12.1	714	3.34	19.5	1.1	2.7	2.2	9.7	0.08	0.63	0.32	16	0.08	0.065
AA068129	Soil	0.38	34.51	22.32	81.4	54	25.1	19.2	517	3.68	29.1	1.3	13.5	11.5	9.7	0.04	0.65	0.45	8	0.04	0.037
AA068130	Soil	0.31	39.01	20.90	82.8	71	25.9	19.5	464	3.39	13.1	1.5	3.4	14.9	19.6	0.04	0.62	0.45	8	0.07	0.035
AA068131	Soil	0.29	35.18	15.30	60.2	82	26.7	18.0	386	2.79	11.3	1.3	3.4	13.6	22.2	0.02	0.60	0.37	6	0.10	0.019
AA068132	Soil	0.22	31.66	26.65	80.4	105	28.2	20.1	542	3.22	56.0	1.5	21.8	16.6	19.3	0.04	0.99	0.34	8	0.10	0.025
AA068133	Soil	0.14	23.36	17.04	46.9	89	19.1	13.5	405	2.57	6.9	1.7	2.8	17.2	8.8	0.01	0.66	0.29	6	0.08	0.022
AA068134	Soil	0.37	18.78	11.45	40.0	31	14.1	7.0	332	2.14	5.8	0.9	1.2	0.6	6.0	0.06	0.28	0.24	13	0.04	0.075
AA068135	Soil	0.61	43.99	38.82	100.1	197	25.6	25.0	1259	3.26	15.2	2.1	2.8	3.2	14.8	0.17	0.89	0.50	13	0.13	0.098
AA068136	Soil	0.51	28.56	25.05	71.8	109	20.3	14.2	588	3.03	14.8	1.5	5.5	3.2	10.7	0.08	0.69	0.34	16	0.09	0.074
AA068137	Soil	0.45	36.82	24.39	80.0	48	33.6	24.4	529	3.66	19.6	1.7	5.2	9.7	9.0	0.07	0.63	0.40	15	0.06	0.043
AA068138	Soil	0.62	22.83	16.58	63.5	81	22.8	11.3	726	4.01	12.8	1.2	4.1	0.9	6.6	0.11	0.66	0.42	23	0.03	0.116
AA068139	Soil	0.64	21.05	16.89	60.0	80	21.9	11.0	699	3.92	12.4	1.2	2.9	1.2	6.2	0.13	0.65	0.40	22	0.03	0.109
AA068140	Soil	0.41	39.22	14.98	65.3	39	33.0	18.3	417	3.92	11.1	1.7	1.8	6.5	9.1	0.06	0.54	0.41	15	0.04	0.060
AA068141	Soil	0.37	31.84	16.33	61.0	70	32.2	15.0	421	3.65	23.1	1.5	12.1	10.3	11.0	0.15	0.85	0.45	10	0.12	0.044
AA068142	Soil	0.34	26.23	15.84	50.2	72	19.8	12.9	502	2.50	35.4	1.1	8.4	3.9	9.3	0.08	0.60	0.27	11	0.09	0.059
AA068143	Soil	0.36	46.43	28.73	79.4	216	34.3	19.9	460	3.94	57.4	2.7	17.3	13.3	30.4	0.05	0.99	0.45	8	0.43	0.053
AA068144	Soil	0.37	38.82	23.75	73.4	140	32.5	15.7	373	3.86	50.2	2.4	13.7	7.4	24.5	0.09	1.05	0.43	8	0.42	0.048
AA068145	Soil	0.34	38.21	20.68	81.7	113	33.9	15.2	289	3.87	40.7	1.7	11.1	8.8	17.3	0.10	0.95	0.43	9	0.26	0.044
AA068146	Soil	0.38	29.39	18.06	75.1	71	31.3	13.4	332	3.71	28.4	1.2	6.2	8.3	13.7	0.07	0.76	0.42	9	0.21	0.051
AA068147	Soil	0.38	35.89	21.37	72.0	147	35.1	16.1	400	3.66	33.8	1.6	16.7	9.4	15.1	0.13	1.22	0.44	9	0.20	0.045
AA068148	Soil	0.52	26.41	22.60	76.8	64	26.8	12.1	424	3.51	20.0	1.1	4.9	3.1	12.0	0.08	0.75	0.39	15	0.17	0.074
AA068149	Soil	0.39	41.45	30.37	100.3	78	42.2	16.4	565	4.60	30.4	1.1	7.8	8.2	10.5	0.05	0.51	0.50	13	0.18	0.037
AA068150	Soil	0.51	39.73	24.77	86.5	119	32.8	11.6	300	3.55	35.1	1.0	8.0	4.9	20.9	0.07	0.66	0.43	10	0.45	0.067



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Project: None Given

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# CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sc ppm	Tl ppm	S %	Hg ppb	Se ppm	Te ppm	Ga ppm	Cs ppm	Ge ppm	Hf ppm	
AA068121	Soil	20.3	8.0	0.16	24.2	<0.001	<1	0.90	0.003	0.04	<0.1	1.1	0.03	<0.02	10	<0.1	0.04	1.8	2.14	<0.1	0.04
AA068122	Soil	11.2	9.1	0.18	20.2	0.006	<1	0.84	0.015	0.03	<0.1	0.7	0.03	0.03	20	0.2	0.02	2.5	0.78	<0.1	0.03
AA068123	Soil	27.1	12.0	0.31	28.9	0.002	<1	1.11	0.005	0.03	<0.1	2.2	0.04	<0.02	16	0.1	0.03	3.0	1.30	<0.1	<0.02
AA068124	Soil	20.2	18.0	0.51	30.2	0.002	<1	1.44	0.004	0.03	<0.1	2.5	0.06	<0.02	16	<0.1	0.05	3.8	1.37	<0.1	<0.02
AA068125	Soil	19.8	10.1	0.15	23.3	0.003	<1	0.78	0.004	0.03	<0.1	0.7	0.05	0.03	14	0.2	<0.02	3.0	1.22	<0.1	<0.02
AA068126	Soil	13.7	8.9	0.16	40.3	0.003	<1	0.93	0.014	0.04	<0.1	1.3	0.05	0.03	20	0.3	0.03	2.4	1.52	<0.1	<0.02
AA068127	Soil	25.2	9.6	0.14	31.6	0.001	<1	0.77	0.002	0.04	<0.1	1.4	0.05	0.03	28	0.2	0.06	1.9	2.53	<0.1	0.03
AA068128	Soil	19.0	10.8	0.17	52.9	0.004	<1	0.92	0.008	0.05	<0.1	1.4	0.06	0.03	22	0.1	<0.02	2.7	1.60	<0.1	<0.02
AA068129	Soil	17.8	5.7	0.07	18.3	<0.001	<1	0.30	0.002	0.03	<0.1	2.6	0.03	<0.02	21	<0.1	0.04	0.8	0.68	<0.1	0.05
AA068130	Soil	19.5	5.9	0.08	17.9	<0.001	<1	0.33	0.004	0.03	<0.1	2.3	0.02	<0.02	23	0.1	0.04	0.8	0.79	<0.1	0.12
AA068131	Soil	15.2	4.7	0.08	24.6	<0.001	<1	0.38	0.004	0.05	<0.1	2.7	0.02	<0.02	10	<0.1	0.02	0.9	1.98	<0.1	0.16
AA068132	Soil	20.9	6.6	0.12	18.2	<0.001	<1	0.45	0.003	0.04	<0.1	2.4	0.02	<0.02	15	<0.1	0.02	0.9	1.32	<0.1	0.20
AA068133	Soil	17.9	5.6	0.12	22.5	<0.001	<1	0.55	0.002	0.04	<0.1	1.7	<0.02	<0.02	18	<0.1	<0.02	1.0	1.81	<0.1	0.13
AA068134	Soil	7.6	12.0	0.27	26.7	0.006	<1	0.98	0.016	0.04	<0.1	0.4	0.04	0.05	25	0.2	<0.02	3.3	0.69	<0.1	<0.02
AA068135	Soil	9.3	15.5	0.34	59.8	0.002	1	1.40	0.009	0.07	<0.1	1.2	0.07	0.06	46	0.2	0.06	3.6	2.25	<0.1	0.06
AA068136	Soil	12.3	15.5	0.35	38.3	0.004	1	1.28	0.008	0.04	<0.1	1.2	0.04	0.03	22	0.2	<0.02	3.9	1.23	<0.1	0.04
AA068137	Soil	24.6	19.5	0.57	35.3	0.004	<1	1.55	0.003	0.03	<0.1	1.7	0.04	<0.02	12	0.2	0.03	3.8	0.97	<0.1	0.02
AA068138	Soil	21.5	22.7	0.43	36.6	0.007	2	1.56	0.003	0.05	<0.1	0.6	0.07	0.07	51	0.3	<0.02	5.3	1.25	<0.1	0.03
AA068139	Soil	16.8	22.2	0.40	35.2	0.005	<1	1.55	0.003	0.05	<0.1	0.5	0.06	0.06	35	0.3	0.05	4.7	1.09	<0.1	0.04
AA068140	Soil	23.9	23.1	0.65	34.4	0.002	<1	1.73	0.002	0.04	<0.1	1.4	0.05	0.03	20	<0.1	0.04	4.6	1.58	<0.1	0.09
AA068141	Soil	26.6	18.1	0.60	31.5	0.002	2	1.49	0.002	0.03	<0.1	1.9	0.04	<0.02	16	<0.1	0.06	3.6	0.80	<0.1	0.09
AA068142	Soil	11.7	13.2	0.36	34.5	0.005	1	1.23	0.014	0.04	<0.1	1.0	0.04	0.02	13	<0.1	0.04	3.2	0.99	<0.1	0.04
AA068143	Soil	19.1	17.3	0.54	35.6	0.001	3	1.48	0.004	0.06	<0.1	2.9	0.04	0.03	37	0.4	0.05	3.6	1.51	<0.1	0.15
AA068144	Soil	16.7	16.9	0.46	33.4	<0.001	2	1.35	0.002	0.05	0.2	2.4	0.03	0.03	23	0.1	0.06	3.2	0.74	<0.1	0.16
AA068145	Soil	18.5	17.1	0.47	32.1	<0.001	<1	1.36	0.002	0.04	0.1	2.8	0.03	0.02	16	<0.1	0.02	3.1	0.72	<0.1	0.17
AA068146	Soil	18.8	17.7	0.51	33.9	0.001	<1	1.38	0.002	0.04	<0.1	2.1	0.03	0.02	21	0.1	0.02	3.5	0.78	<0.1	0.10
AA068147	Soil	23.1	16.8	0.52	28.3	0.003	1	1.33	0.003	0.04	<0.1	2.4	0.03	<0.02	30	0.1	0.05	3.3	0.66	<0.1	0.06
AA068148	Soil	16.4	19.5	0.51	38.8	0.005	<1	1.38	0.003	0.04	0.1	1.4	0.04	0.03	14	0.2	0.02	3.8	0.84	<0.1	0.03
AA068149	Soil	20.6	31.3	1.04	21.1	<0.001	<1	2.32	0.003	0.03	<0.1	2.7	0.02	<0.02	8	<0.1	0.05	5.8	0.83	<0.1	0.17
AA068150	Soil	15.1	22.3	0.73	30.6	<0.001	<1	1.78	0.003	0.04	<0.1	2.5	0.02	0.05	17	<0.1	0.08	4.5	0.91	<0.1	0.28



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Project: None Given  
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# CERTIFICATE OF ANALYSIS

WHI16000177.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA068121	Soil	0.03	4.9	0.2	<0.05	1.6	2.97	41.8	<0.02	<1	0.3	9.8	<10	<2
AA068122	Soil	0.12	4.0	0.3	<0.05	1.0	2.09	22.1	<0.02	<1	0.3	10.9	<10	<2
AA068123	Soil	0.05	3.4	0.3	<0.05	1.6	5.03	54.7	0.02	<1	0.5	18.2	<10	<2
AA068124	Soil	0.06	3.7	0.5	<0.05	1.8	6.33	41.4	<0.02	<1	0.6	31.2	<10	<2
AA068125	Soil	0.09	5.8	0.4	<0.05	0.6	2.98	38.4	0.02	<1	<0.1	8.2	<10	<2
AA068126	Soil	0.15	6.8	0.3	<0.05	0.8	4.46	27.8	<0.02	<1	0.4	8.8	<10	<2
AA068127	Soil	0.06	5.3	0.3	<0.05	0.9	8.62	50.3	0.03	<1	0.5	9.0	<10	<2
AA068128	Soil	0.11	6.9	0.3	<0.05	0.4	6.04	40.2	<0.02	<1	0.3	10.7	<10	<2
AA068129	Soil	0.02	1.8	0.2	<0.05	4.4	4.28	36.4	<0.02	<1	0.2	1.6	<10	<2
AA068130	Soil	0.03	2.0	0.2	<0.05	8.1	4.49	38.8	0.02	<1	0.3	2.3	<10	<2
AA068131	Soil	<0.02	2.7	0.4	<0.05	9.3	3.94	31.0	<0.02	1	0.5	1.4	<10	<2
AA068132	Soil	0.02	2.3	0.3	<0.05	13.2	4.70	45.3	0.02	<1	0.2	3.1	<10	3
AA068133	Soil	<0.02	2.4	0.4	<0.05	10.1	4.83	39.2	<0.02	<1	0.1	2.4	<10	<2
AA068134	Soil	0.12	4.4	0.4	<0.05	0.8	1.70	15.2	<0.02	<1	<0.1	17.0	<10	<2
AA068135	Soil	0.16	8.5	0.6	<0.05	1.6	5.54	20.1	<0.02	<1	0.8	22.6	<10	<2
AA068136	Soil	0.13	5.2	0.6	<0.05	1.3	3.54	26.1	<0.02	<1	0.3	21.5	<10	<2
AA068137	Soil	0.09	3.6	0.3	<0.05	1.2	4.92	50.8	0.02	<1	0.6	35.4	<10	<2
AA068138	Soil	0.19	7.3	0.5	<0.05	0.6	3.10	43.5	0.02	<1	0.3	26.4	<10	<2
AA068139	Soil	0.24	6.3	1.0	<0.05	0.9	2.87	34.4	<0.02	<1	0.4	25.4	<10	<2
AA068140	Soil	0.10	4.9	0.2	<0.05	3.2	5.08	49.1	0.03	<1	0.6	42.7	<10	<2
AA068141	Soil	0.08	3.0	0.5	<0.05	3.2	8.42	52.7	<0.02	<1	0.4	38.3	<10	2
AA068142	Soil	0.15	4.0	0.3	<0.05	1.5	3.42	25.9	<0.02	<1	0.4	24.0	<10	<2
AA068143	Soil	0.07	3.9	0.3	<0.05	6.9	9.75	37.1	0.03	<1	0.7	34.4	<10	6
AA068144	Soil	0.07	2.8	0.3	<0.05	5.5	10.15	32.3	0.03	<1	0.4	29.5	<10	<2
AA068145	Soil	0.07	2.7	0.2	<0.05	5.6	9.05	36.3	0.02	<1	0.6	30.2	<10	<2
AA068146	Soil	0.09	3.4	0.8	<0.05	4.1	5.86	38.4	<0.02	1	0.4	34.1	<10	<2
AA068147	Soil	0.09	2.6	0.2	<0.05	2.8	8.52	46.3	0.02	<1	0.4	34.0	<10	<2
AA068148	Soil	0.18	4.8	0.8	<0.05	1.3	4.25	33.6	0.03	<1	0.3	35.1	<10	<2
AA068149	Soil	0.02	2.3	0.2	<0.05	7.0	5.43	39.2	<0.02	2	0.4	73.5	<10	<2
AA068150	Soil	0.06	3.4	0.3	<0.05	8.8	7.10	27.7	0.02	<1	0.5	46.8	<10	<2



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Client: **Golden Predator Mining Corp.**

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Project: None Given

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# CERTIFICATE OF ANALYSIS

# WHI16000177.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
AA068151	Soil	0.39	44.97	39.06	96.1	94	37.6	23.2	645	4.35	14.5	1.3	<0.2	8.8	6.2	0.11	0.75	0.51	12	0.05	0.052
AA068152	Soil	0.34	37.55	24.80	87.9	69	35.5	16.6	427	3.95	12.3	1.1	1.1	7.1	10.5	0.05	0.61	0.41	11	0.14	0.041
AA068153	Soil	0.56	36.58	34.94	86.1	96	30.0	19.5	1073	3.57	22.8	1.7	2.4	4.6	9.8	0.09	0.69	0.45	13	0.10	0.070
AA068154	Soil	0.50	42.02	45.24	87.0	56	33.0	21.4	887	3.96	17.9	2.0	1.6	6.5	11.2	0.07	0.82	0.68	13	0.12	0.078
AA068155	Soil	0.53	26.93	24.30	115.5	61	37.6	22.3	993	5.20	17.6	1.0	1.3	0.5	248.4	0.24	0.38	0.35	40	0.22	0.104
AA068156	Soil	0.40	4.06	3.80	14.2	44	2.1	3.6	543	0.53	0.8	0.3	<0.2	<0.1	11.2	0.11	0.08	0.06	8	0.12	0.031
AA068157	Soil	0.61	26.05	20.11	73.1	61	29.0	11.9	598	3.88	20.2	0.6	1.6	2.4	3.4	0.05	0.62	0.41	13	0.02	0.116
AA068158	Soil	0.56	54.81	26.53	88.5	78	39.6	16.5	515	4.17	23.8	6.0	3.7	7.3	18.0	0.05	0.42	0.57	12	0.22	0.035
AA068159	Soil	0.39	33.12	22.94	73.6	112	31.3	9.8	407	3.93	18.3	0.7	1.9	3.9	3.5	0.05	0.37	0.40	13	0.02	0.079
AA068160	Soil	0.27	5.15	3.82	17.5	27	6.5	2.4	89	1.00	4.1	0.2	<0.2	<0.1	3.1	0.03	0.10	0.14	9	0.01	0.032
AA068161	Soil	0.65	21.10	16.64	61.8	36	19.5	9.4	581	3.12	17.7	0.5	0.3	1.2	4.5	0.06	0.44	0.43	17	0.02	0.087
AA068162	Soil	0.89	24.03	16.39	61.9	48	21.1	9.7	553	3.36	19.1	0.5	<0.2	1.4	4.4	0.08	0.50	0.44	17	0.02	0.097
AA068163	Soil	0.64	52.12	23.14	86.4	19	40.1	20.9	769	3.85	23.4	0.6	1.5	7.6	8.6	0.08	0.51	0.45	12	0.06	0.041
AA068164	Soil	0.46	22.88	14.20	66.0	23	32.4	13.7	485	3.51	18.0	1.1	0.5	3.7	21.7	0.09	0.38	0.31	15	0.26	0.056
AA068165	Soil	0.28	9.90	6.99	54.2	35	42.5	11.5	282	2.53	5.0	0.5	1.3	0.5	7.5	0.07	0.19	0.25	22	0.04	0.075
AA068166	Soil	0.46	27.05	17.55	74.9	42	33.9	15.1	647	3.83	10.1	0.6	1.9	3.5	4.9	0.10	0.33	0.44	16	0.03	0.077
AA068167	Soil	0.18	11.47	6.66	19.6	55	8.1	5.7	164	1.17	9.2	0.7	3.1	1.4	7.6	0.01	0.18	0.12	7	0.08	0.042
AA068168	Soil	0.57	28.84	23.54	66.8	39	19.3	12.3	403	3.48	21.5	1.1	2.0	3.0	3.6	0.05	0.59	0.33	12	0.01	0.092
AA068169	Soil	0.60	30.19	18.68	57.3	29	17.3	12.1	334	3.39	18.8	1.1	1.8	3.5	4.1	0.05	0.83	0.36	12	0.02	0.074
AA068170	Soil	0.50	30.14	19.59	63.6	20	19.5	13.5	285	3.37	21.7	1.1	6.0	4.6	3.8	0.05	0.67	0.31	7	0.01	0.055
AA068171	Soil	0.54	42.12	39.30	80.0	29	29.8	23.1	621	4.15	34.5	1.6	4.3	9.2	3.1	0.06	1.12	0.47	10	<0.01	0.051
AA068172	Soil	0.70	39.16	24.41	63.5	63	19.8	13.1	394	4.27	39.9	1.3	3.7	4.0	3.9	0.06	1.21	0.42	12	0.02	0.123
AA068173	Soil	0.66	19.45	21.19	57.7	102	19.3	11.1	560	3.81	40.3	1.4	13.1	1.8	5.1	0.13	0.89	0.37	15	0.03	0.145
AA068174	Soil	0.48	21.60	10.68	36.8	41	14.0	6.3	262	1.88	9.4	0.6	0.6	2.4	5.9	0.03	0.40	0.25	12	0.06	0.066
AA068175	Soil	0.53	28.87	21.01	62.0	39	31.4	16.6	287	3.97	267.8	1.3	55.9	3.2	8.7	0.15	1.88	0.48	10	0.10	0.081
AA068176	Soil	0.36	39.29	20.07	78.3	43	27.9	19.8	545	3.72	19.8	1.5	4.6	12.2	11.4	0.04	0.71	0.47	6	0.05	0.039
AA068177	Soil	0.33	33.31	27.34	73.3	79	25.0	17.2	471	3.07	23.5	1.7	9.8	11.9	16.2	0.05	0.73	0.38	5	0.06	0.030
AA068178	Soil	0.63	45.23	33.39	110.3	66	34.4	23.1	652	5.01	10.0	2.4	1.5	14.1	14.8	0.08	0.55	0.48	8	0.09	0.065
AA068179	Soil	0.36	17.43	13.46	34.7	41	12.9	11.9	565	1.74	4.6	1.0	1.4	3.8	8.0	0.04	0.28	0.22	9	0.05	0.055
AA068180	Soil	0.28	34.01	25.66	78.6	42	26.6	17.0	465	3.04	94.0	1.8	19.1	11.8	9.7	0.07	1.18	0.38	6	0.02	0.032



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Project: None Given

Report Date: August 30, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000177.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA068151	Soil	14.6	27.6	0.82	16.8	0.001	1	2.08	0.002	0.02	<0.1	1.6	0.02	<0.02	15	<0.1	0.06	5.4	0.60	<0.1	0.12
AA068152	Soil	13.9	25.5	0.75	24.4	0.001	1	1.94	0.002	0.03	<0.1	1.2	0.02	<0.02	10	0.1	0.03	5.1	0.67	<0.1	0.10
AA068153	Soil	12.0	24.1	0.63	44.3	0.003	<1	1.71	0.005	0.04	<0.1	1.3	0.04	0.03	12	<0.1	0.07	4.9	0.73	<0.1	0.11
AA068154	Soil	14.0	24.8	0.68	26.4	0.002	1	1.84	0.002	0.03	<0.1	1.1	0.03	0.03	18	0.2	0.09	5.0	0.81	<0.1	0.12
AA068155	Soil	16.8	39.6	1.16	232.9	0.023	<1	3.31	0.004	0.10	<0.1	1.0	0.07	0.06	16	0.1	0.05	8.3	1.14	<0.1	<0.02
AA068156	Soil	2.5	3.2	0.06	39.6	0.009	2	0.37	0.023	0.03	<0.1	<0.1	0.02	0.03	17	<0.1	<0.02	2.0	0.33	<0.1	<0.02
AA068157	Soil	13.7	27.2	0.71	22.7	0.004	<1	1.87	0.004	0.03	<0.1	0.8	0.03	0.04	20	<0.1	0.04	5.7	0.61	<0.1	0.09
AA068158	Soil	20.1	30.2	1.00	21.9	0.003	1	2.10	0.002	0.03	<0.1	2.2	<0.02	<0.02	9	0.3	0.06	5.3	0.44	<0.1	0.11
AA068159	Soil	16.5	27.7	0.80	20.9	0.004	<1	2.06	0.003	0.02	<0.1	1.2	0.03	0.04	17	0.3	0.06	5.8	0.62	<0.1	0.10
AA068160	Soil	9.9	6.6	0.17	16.5	0.004	<1	0.66	0.015	0.02	<0.1	0.1	0.03	<0.02	15	<0.1	0.02	3.0	0.47	<0.1	<0.02
AA068161	Soil	17.5	21.1	0.48	38.2	0.004	<1	1.49	0.003	0.04	<0.1	0.6	0.06	0.04	13	0.2	0.05	5.1	1.04	<0.1	<0.02
AA068162	Soil	15.8	22.0	0.49	39.8	0.004	<1	1.56	0.003	0.03	<0.1	0.8	0.07	0.04	19	0.3	0.09	4.9	0.92	<0.1	0.05
AA068163	Soil	27.8	26.4	0.96	32.7	0.001	1	1.96	0.002	0.04	<0.1	2.5	0.03	<0.02	10	<0.1	0.09	4.7	0.61	<0.1	0.05
AA068164	Soil	12.8	29.0	0.91	35.6	0.002	<1	1.92	0.005	0.03	<0.1	1.7	0.03	0.03	11	<0.1	0.04	5.0	0.78	<0.1	0.07
AA068165	Soil	17.1	42.0	0.73	46.1	0.004	1	1.73	0.003	0.03	<0.1	1.0	0.08	0.02	22	<0.1	0.02	5.3	1.02	<0.1	<0.02
AA068166	Soil	14.5	32.2	0.99	34.0	0.002	<1	2.05	0.003	0.03	<0.1	1.3	0.04	0.04	18	<0.1	0.06	5.9	0.98	<0.1	0.06
AA068167	Soil	5.6	5.4	0.13	25.5	0.004	<1	0.86	0.022	0.03	<0.1	0.7	0.03	<0.02	12	<0.1	<0.02	2.0	0.85	<0.1	<0.02
AA068168	Soil	14.2	16.2	0.29	23.8	0.003	<1	1.26	0.003	0.03	<0.1	0.8	0.05	0.05	26	0.2	0.04	4.3	1.14	<0.1	0.07
AA068169	Soil	15.6	15.4	0.26	32.3	0.002	1	1.28	0.005	0.03	<0.1	0.8	0.07	0.03	14	0.2	0.04	4.4	1.18	<0.1	0.09
AA068170	Soil	15.4	13.1	0.24	22.6	0.002	<1	1.15	0.003	0.02	<0.1	0.9	0.04	0.03	15	0.1	0.03	2.8	0.86	<0.1	0.05
AA068171	Soil	19.9	19.0	0.48	29.7	0.002	<1	1.57	0.002	0.03	<0.1	1.2	0.05	<0.02	7	0.1	0.03	4.0	1.26	<0.1	0.08
AA068172	Soil	16.0	17.9	0.22	23.4	0.002	<1	1.21	0.002	0.03	<0.1	0.6	0.06	0.05	31	0.5	0.06	4.7	1.29	<0.1	0.10
AA068173	Soil	7.0	19.4	0.29	38.1	0.004	2	1.30	0.005	0.04	<0.1	0.7	0.07	0.10	57	0.2	0.03	5.0	1.16	<0.1	0.05
AA068174	Soil	9.5	12.2	0.34	20.8	0.009	2	1.04	0.016	0.04	<0.1	1.0	0.05	0.03	17	0.2	<0.02	3.0	0.77	<0.1	0.03
AA068175	Soil	13.5	12.2	0.25	48.6	0.003	<1	1.13	0.007	0.03	<0.1	0.9	0.05	0.04	7	0.2	0.02	3.4	1.36	<0.1	0.05
AA068176	Soil	25.7	6.5	0.10	18.4	0.001	<1	0.40	0.003	0.03	<0.1	2.5	<0.02	<0.02	21	<0.1	0.06	1.0	0.64	<0.1	0.04
AA068177	Soil	18.3	7.2	0.17	24.1	<0.001	<1	0.62	0.004	0.03	<0.1	2.5	0.03	<0.02	18	<0.1	0.03	1.5	1.21	<0.1	0.03
AA068178	Soil	25.7	13.0	0.27	17.7	0.002	<1	0.75	0.003	0.04	<0.1	2.6	0.03	<0.02	20	0.1	0.05	1.9	0.87	<0.1	0.07
AA068179	Soil	9.8	6.5	0.17	19.8	0.008	1	0.71	0.016	0.03	<0.1	1.0	0.04	0.02	18	0.5	<0.02	2.0	0.79	<0.1	0.02
AA068180	Soil	19.7	4.9	0.08	14.5	0.002	<1	0.30	0.002	0.02	<0.1	2.0	0.02	<0.02	8	0.2	0.04	0.8	0.51	<0.1	0.04



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Project: None Given

Report Date: August 30, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000177.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA068151	Soil	0.06	2.2	0.3	<0.05	4.3	3.89	27.9	<0.02	<1	0.3	62.1	<10	<2
AA068152	Soil	0.04	2.8	0.3	<0.05	3.1	3.31	27.0	<0.02	1	0.3	54.7	<10	<2
AA068153	Soil	0.17	4.2	0.2	<0.05	4.0	4.10	23.4	<0.02	<1	0.3	44.7	<10	2
AA068154	Soil	0.11	3.1	0.2	<0.05	4.7	5.58	27.1	<0.02	<1	0.7	52.5	<10	<2
AA068155	Soil	0.85	11.6	0.6	<0.05	0.7	4.41	34.6	0.04	2	1.1	54.8	<10	<2
AA068156	Soil	0.15	2.2	0.1	<0.05	0.1	0.43	4.6	<0.02	<1	<0.1	1.6	<10	<2
AA068157	Soil	0.20	4.6	0.1	<0.05	2.4	1.75	26.3	<0.02	<1	0.3	47.5	<10	<2
AA068158	Soil	0.09	2.1	0.1	<0.05	3.8	5.05	38.1	<0.02	<1	0.3	66.4	<10	<2
AA068159	Soil	0.20	3.6	0.2	<0.05	3.3	1.77	31.2	<0.02	<1	<0.1	52.9	<10	<2
AA068160	Soil	0.06	2.9	0.2	<0.05	0.1	0.68	18.1	<0.02	<1	<0.1	10.1	<10	<2
AA068161	Soil	0.23	6.9	0.3	<0.05	0.8	1.59	31.8	<0.02	1	0.2	28.6	<10	<2
AA068162	Soil	0.27	6.0	0.3	<0.05	1.1	2.17	29.5	<0.02	<1	0.2	29.8	<10	<2
AA068163	Soil	0.08	3.8	0.1	<0.05	1.9	3.36	52.0	<0.02	<1	0.4	52.2	<10	<2
AA068164	Soil	0.21	5.2	0.2	<0.05	2.3	2.41	25.1	<0.02	<1	0.6	53.8	<10	<2
AA068165	Soil	0.11	6.0	0.4	<0.05	0.3	2.88	31.5	<0.02	1	0.2	43.5	<10	<2
AA068166	Soil	0.17	4.5	0.3	<0.05	2.8	2.14	26.6	0.02	<1	0.3	59.6	<10	<2
AA068167	Soil	0.15	2.9	0.3	<0.05	0.7	2.40	11.1	<0.02	1	0.1	7.8	<10	<2
AA068168	Soil	0.16	5.1	0.4	<0.05	2.9	2.92	28.7	0.02	<1	0.3	18.6	<10	<2
AA068169	Soil	0.13	5.4	0.3	<0.05	2.9	2.70	30.9	0.02	<1	0.2	16.6	<10	<2
AA068170	Soil	0.10	3.6	0.2	<0.05	2.3	2.96	30.5	0.02	<1	0.4	15.8	<10	<2
AA068171	Soil	0.06	4.4	0.1	<0.05	3.4	3.66	39.3	0.02	1	0.5	31.4	<10	<2
AA068172	Soil	0.14	5.0	0.3	<0.05	3.4	3.06	32.2	0.02	<1	0.1	12.0	<10	<2
AA068173	Soil	0.29	7.2	0.3	<0.05	1.8	3.03	13.5	<0.02	1	0.4	18.4	<10	<2
AA068174	Soil	0.19	5.0	0.3	<0.05	1.1	2.62	18.7	<0.02	2	0.2	17.7	<10	<2
AA068175	Soil	0.09	5.1	0.2	<0.05	1.8	5.51	27.1	<0.02	<1	0.3	16.9	<10	<2
AA068176	Soil	0.03	2.1	0.1	<0.05	4.0	4.67	50.4	<0.02	2	0.3	3.9	<10	3
AA068177	Soil	0.05	2.8	0.3	<0.05	2.3	4.55	36.9	0.02	<1	<0.1	7.7	<10	<2
AA068178	Soil	0.05	2.6	1.1	<0.05	3.4	6.04	52.5	0.02	1	0.3	11.3	<10	<2
AA068179	Soil	0.17	3.0	0.4	<0.05	1.3	2.87	20.0	<0.02	<1	0.2	8.9	<10	<2
AA068180	Soil	0.03	1.4	0.2	<0.05	3.6	4.06	38.4	0.02	<1	0.3	2.5	<10	<2



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Project: None Given

Report Date: August 30, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000177.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
AA068181	Soil	0.39	18.15	16.10	41.4	44	14.3	8.7	356	2.00	54.0	1.0	16.7	3.4	6.5	0.04	0.62	0.24	10	0.05	0.062
AA068182	Soil	0.79	45.68	34.18	97.0	98	39.6	19.3	544	4.12	14.6	2.3	2.6	12.0	11.4	0.06	0.81	0.61	17	0.06	0.070
AA068183	Soil	0.76	23.91	21.34	51.1	79	16.2	7.4	459	3.53	10.8	1.3	1.3	1.6	6.9	0.13	0.76	0.45	18	0.02	0.135
AA068184	Soil	0.38	23.20	15.86	57.2	67	35.0	21.8	442	3.64	11.7	1.9	2.8	13.2	10.8	0.06	0.68	0.40	11	0.08	0.046
AA068185	Soil	0.62	26.52	19.12	55.3	37	28.2	15.1	419	4.57	12.9	2.0	2.9	3.7	7.2	0.04	0.91	0.54	17	0.04	0.110
AA068186	Soil	0.39	26.25	25.42	68.0	26	27.6	18.6	620	3.78	49.4	1.7	10.5	8.1	6.9	0.06	0.68	0.38	10	0.04	0.050
AA068187	Soil	0.40	35.38	26.67	76.2	32	28.4	20.0	401	3.56	33.6	2.1	4.9	7.7	9.0	0.07	0.56	0.41	7	0.03	0.041
AA068188	Soil	0.77	42.29	29.41	82.5	96	37.3	23.3	458	4.20	85.9	2.3	15.3	9.5	13.5	0.09	1.16	0.54	8	0.06	0.067
AA068189	Soil	0.51	42.37	24.68	81.3	108	37.2	22.9	373	4.26	64.9	2.2	18.9	12.7	12.8	0.07	0.99	0.48	9	0.08	0.053
AA068190	Soil	0.55	40.45	32.26	83.3	115	40.4	23.8	572	4.24	37.9	1.7	6.4	17.4	24.6	0.08	0.93	0.49	8	0.36	0.066
AA068191	Soil	0.37	42.83	23.79	86.8	64	40.2	25.1	507	4.17	45.7	1.8	5.8	16.4	18.1	0.08	1.02	0.53	8	0.22	0.056
AA068192	Soil	0.52	31.57	31.28	69.7	119	28.2	21.9	827	3.62	37.4	1.7	5.8	3.3	16.3	0.08	0.94	0.46	12	0.23	0.082
AA068193	Soil	0.33	34.01	21.73	80.1	62	37.6	15.7	331	3.80	32.3	1.6	8.8	12.1	10.0	0.05	1.04	0.42	8	0.10	0.039
AA068194	Soil	0.40	28.07	22.71	85.1	93	33.1	13.0	334	3.75	24.4	1.4	4.5	7.9	11.5	0.06	0.83	0.41	11	0.14	0.049
AA068195	Soil	0.40	38.36	35.47	91.5	65	36.9	22.1	430	3.93	28.0	1.5	6.3	17.6	16.7	0.04	1.03	0.47	8	0.15	0.043
AA068196	Soil	0.51	43.30	43.48	86.0	152	37.3	24.2	539	3.85	44.3	1.4	10.9	12.7	84.6	0.08	1.14	0.50	8	2.12	0.059
AA068197	Soil	0.50	43.14	36.68	84.6	163	31.1	16.1	368	3.31	35.2	1.8	10.6	5.9	39.2	0.12	1.43	0.46	7	0.90	0.063
AA068198	Soil	0.37	42.46	29.23	95.3	99	39.4	13.8	361	4.26	34.9	1.4	7.5	9.9	19.0	0.04	0.70	0.51	10	0.30	0.043
AA068199	Soil	0.41	42.00	31.47	103.7	67	43.4	20.3	620	4.55	31.1	1.3	5.0	10.1	16.4	0.05	0.89	0.49	12	0.24	0.038
AA068200	Soil	0.33	36.54	30.16	88.4	101	37.1	15.8	356	4.04	30.6	1.3	9.5	9.0	27.2	0.04	1.07	0.44	9	0.44	0.064
AA068201	Soil	0.59	46.82	29.32	93.3	158	39.8	18.8	484	4.28	39.8	1.2	10.3	9.5	30.6	0.09	1.66	0.51	9	0.62	0.054
AA068202	Soil	0.33	36.88	24.60	83.6	98	27.1	14.3	687	3.56	22.0	1.9	2.3	3.9	41.1	0.10	1.19	0.44	9	0.77	0.095
AA068203	Soil	0.80	30.37	54.00	106.1	125	33.4	20.2	689	4.48	39.3	2.9	2.1	2.4	71.3	0.28	2.35	0.49	7	1.44	0.092
AA068204	Soil	0.33	22.82	23.24	62.0	94	23.6	10.1	270	2.99	22.6	1.4	3.4	4.6	47.2	0.10	0.86	0.36	8	0.85	0.078
AA068205	Soil	0.49	41.49	36.66	91.5	148	39.7	17.5	426	4.01	34.0	2.7	7.4	2.7	84.5	0.20	3.80	0.39	6	1.66	0.060
AA068206	Soil	0.41	37.33	26.59	81.6	77	27.8	14.2	665	3.72	22.3	1.3	5.7	2.2	9.4	0.08	0.48	0.45	14	0.16	0.081
AA068207	Soil	0.37	17.97	16.37	61.4	54	23.5	9.0	392	2.89	13.1	0.8	1.1	1.6	5.3	0.06	0.37	0.37	13	0.05	0.065
AA068208	Soil	0.55	37.65	26.23	99.1	73	35.5	13.8	528	3.95	17.1	1.7	1.6	3.9	8.3	0.12	0.75	0.62	12	0.10	0.081
AA068209	Soil	0.15	6.28	3.06	11.4	24	2.3	1.7	57	0.57	1.1	0.2	<0.2	<0.1	5.9	<0.01	0.06	0.05	12	0.06	0.035
AA068210	Soil	0.73	40.62	52.53	97.1	27	41.5	29.3	1329	4.07	26.5	1.5	2.0	8.3	6.0	0.14	1.22	0.57	13	0.06	0.042



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Project: None Given

Report Date: August 30, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000177.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sc ppm	Tl ppm	S %	Hg ppb	Se ppm	Te ppm	Ga ppm	Cs ppm	Ge ppm	Hf ppm	
AA068181	Soil	11.1	10.2	0.28	19.1	0.010	<1	0.92	0.016	0.03	<0.1	1.0	0.04	<0.02	13	0.2	<0.02	2.9	0.76	<0.1	0.02
AA068182	Soil	25.6	23.2	0.73	26.9	0.012	1	1.84	0.005	0.06	0.1	2.3	0.07	0.03	26	0.4	0.05	5.3	1.18	<0.1	0.06
AA068183	Soil	9.9	19.3	0.28	37.7	0.004	<1	1.31	0.003	0.03	<0.1	0.4	0.07	0.08	45	0.3	0.05	5.7	1.21	<0.1	0.04
AA068184	Soil	27.0	20.3	0.71	21.4	0.005	<1	1.69	0.002	0.03	<0.1	1.5	0.03	<0.02	18	<0.1	0.06	4.4	0.90	<0.1	<0.02
AA068185	Soil	25.5	24.1	0.53	29.0	0.007	<1	1.67	0.002	0.04	<0.1	1.1	0.06	0.05	30	0.4	0.06	5.8	1.60	<0.1	0.03
AA068186	Soil	24.2	15.0	0.41	32.7	0.002	<1	1.33	0.002	0.03	<0.1	1.5	0.04	0.02	8	0.3	0.02	3.2	1.33	<0.1	0.06
AA068187	Soil	25.7	11.9	0.31	31.9	<0.001	<1	1.14	0.003	0.04	<0.1	1.5	0.05	<0.02	<5	<0.1	<0.02	2.6	2.45	<0.1	0.06
AA068188	Soil	30.4	19.4	0.55	27.2	0.001	<1	1.50	0.002	0.04	<0.1	1.7	0.05	0.03	15	<0.1	0.03	4.2	1.39	<0.1	0.09
AA068189	Soil	32.1	19.8	0.65	20.4	0.001	<1	1.64	0.002	0.03	<0.1	1.7	0.03	<0.02	17	<0.1	0.03	4.3	1.13	<0.1	0.09
AA068190	Soil	32.7	17.8	0.60	28.2	0.002	<1	1.47	0.003	0.04	<0.1	2.9	0.03	<0.02	33	<0.1	0.02	3.8	0.81	<0.1	0.13
AA068191	Soil	29.2	18.5	0.63	19.0	0.002	<1	1.43	0.001	0.03	<0.1	2.4	<0.02	<0.02	8	<0.1	0.04	3.7	0.47	<0.1	0.15
AA068192	Soil	16.1	16.9	0.46	38.8	0.003	<1	1.35	0.005	0.04	<0.1	1.0	0.05	0.04	11	0.2	0.02	3.9	1.24	<0.1	0.04
AA068193	Soil	23.4	17.9	0.57	24.4	0.001	<1	1.49	0.002	0.03	<0.1	1.8	0.03	<0.02	6	<0.1	0.05	3.5	0.98	<0.1	0.04
AA068194	Soil	19.3	19.9	0.59	28.6	0.002	<1	1.57	0.003	0.04	<0.1	1.8	0.03	0.03	10	<0.1	0.03	4.0	1.21	<0.1	0.07
AA068195	Soil	25.3	19.2	0.59	21.1	0.001	<1	1.49	0.002	0.03	<0.1	2.1	0.02	<0.02	8	0.1	0.02	4.0	0.80	<0.1	0.11
AA068196	Soil	19.2	17.8	0.57	28.9	0.001	<1	1.47	0.003	0.04	<0.1	2.6	0.03	0.02	25	0.3	0.06	3.6	0.93	<0.1	0.15
AA068197	Soil	12.0	15.7	0.50	35.6	<0.001	1	1.32	0.003	0.05	<0.1	1.9	0.03	0.06	30	<0.1	<0.02	3.0	0.70	<0.1	0.18
AA068198	Soil	22.9	23.2	0.76	23.6	<0.001	<1	1.88	0.003	0.04	0.1	2.5	<0.02	<0.02	15	<0.1	0.05	4.8	0.95	<0.1	0.18
AA068199	Soil	24.6	25.8	0.89	21.0	<0.001	<1	2.02	0.002	0.03	<0.1	2.3	<0.02	<0.02	<5	0.2	0.07	5.7	0.59	<0.1	0.12
AA068200	Soil	20.5	20.0	0.64	27.8	0.001	<1	1.62	0.002	0.04	<0.1	2.3	<0.02	0.02	12	<0.1	0.04	4.2	0.43	<0.1	0.14
AA068201	Soil	22.5	19.2	0.64	30.8	<0.001	<1	1.59	0.003	0.05	<0.1	3.5	0.03	<0.02	14	0.3	0.06	4.0	0.68	<0.1	0.14
AA068202	Soil	16.9	13.6	0.49	54.9	0.002	<1	1.28	0.006	0.02	<0.1	3.9	0.02	0.06	25	0.2	0.04	3.0	0.75	<0.1	0.16
AA068203	Soil	29.2	9.3	0.32	65.7	0.003	<1	0.91	0.003	0.02	<0.1	3.6	0.04	0.06	25	0.4	0.05	1.9	0.45	<0.1	0.07
AA068204	Soil	14.1	12.3	0.39	73.8	0.002	<1	1.29	0.007	0.03	<0.1	2.4	0.04	0.06	18	0.3	<0.02	3.0	0.74	<0.1	0.14
AA068205	Soil	20.6	8.3	0.23	35.1	<0.001	<1	0.71	0.003	0.03	<0.1	3.2	0.07	0.06	57	0.5	0.03	1.4	0.52	<0.1	0.09
AA068206	Soil	12.9	23.4	0.57	38.1	0.005	<1	1.71	0.008	0.03	<0.1	0.9	0.04	0.04	16	0.3	0.05	5.6	2.20	<0.1	0.05
AA068207	Soil	10.1	18.7	0.51	22.9	0.004	<1	1.32	0.009	0.03	<0.1	0.7	0.03	0.03	22	0.3	0.07	4.6	1.62	<0.1	0.03
AA068208	Soil	11.4	26.3	0.68	45.8	0.002	<1	1.94	0.006	0.04	<0.1	1.7	0.05	0.04	19	0.4	0.07	5.8	4.69	<0.1	0.09
AA068209	Soil	2.6	2.8	0.05	16.4	0.015	<1	0.36	0.022	0.02	<0.1	0.3	<0.02	0.02	<5	<0.1	<0.02	1.6	0.25	<0.1	<0.02
AA068210	Soil	17.0	19.5	0.55	56.7	0.004	<1	1.56	0.002	0.02	<0.1	2.0	0.04	0.02	9	0.2	0.14	4.3	1.28	<0.1	0.04



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Project: None Given

Report Date: August 30, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000177.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA068181	Soil	0.16	4.4	0.3	<0.05	0.6	2.93	23.1	<0.02	<1	0.1	14.6	<10	<2
AA068182	Soil	0.27	6.7	0.4	<0.05	2.3	5.41	46.5	0.03	<1	0.2	44.7	<10	<2
AA068183	Soil	0.34	6.7	0.5	<0.05	1.5	1.77	17.7	<0.02	<1	0.3	17.2	<10	<2
AA068184	Soil	0.08	3.1	0.3	<0.05	1.6	5.19	54.3	<0.02	<1	0.5	45.9	<10	3
AA068185	Soil	0.23	7.8	0.4	<0.05	1.4	3.80	48.8	<0.02	1	0.5	32.1	<10	<2
AA068186	Soil	0.11	4.0	0.3	<0.05	2.8	4.10	46.6	<0.02	<1	0.4	26.4	<10	<2
AA068187	Soil	0.04	5.2	0.2	<0.05	2.1	3.69	50.9	0.02	<1	0.4	26.2	<10	<2
AA068188	Soil	0.05	4.1	0.3	<0.05	2.8	4.98	57.2	<0.02	<1	0.6	40.6	<10	<2
AA068189	Soil	0.04	3.2	0.1	<0.05	2.4	4.95	63.5	<0.02	<1	0.8	43.6	<10	<2
AA068190	Soil	0.04	2.4	0.8	<0.05	8.1	9.50	62.2	<0.02	<1	0.5	36.9	<10	<2
AA068191	Soil	0.02	1.5	0.2	<0.05	8.4	8.30	55.9	<0.02	<1	0.4	41.2	<10	<2
AA068192	Soil	0.15	4.9	0.4	<0.05	1.5	5.51	32.0	0.02	<1	0.4	30.1	<10	<2
AA068193	Soil	0.06	2.8	0.2	<0.05	2.6	4.74	46.2	<0.02	<1	0.4	38.7	<10	<2
AA068194	Soil	0.12	4.0	0.4	<0.05	2.7	4.93	37.6	0.03	<1	0.5	37.5	<10	<2
AA068195	Soil	0.03	2.3	0.2	<0.05	7.1	5.76	48.8	<0.02	<1	0.5	40.2	<10	<2
AA068196	Soil	0.05	2.8	0.6	<0.05	6.7	9.27	37.3	0.02	<1	0.5	33.4	<10	<2
AA068197	Soil	0.09	3.1	0.2	<0.05	7.8	8.07	21.1	0.03	<1	0.4	29.3	<10	<2
AA068198	Soil	0.04	2.5	0.2	<0.05	7.4	6.30	39.6	0.02	<1	0.4	50.3	<10	<2
AA068199	Soil	0.03	1.7	0.1	<0.05	4.8	5.03	44.0	<0.02	<1	0.4	64.0	<10	<2
AA068200	Soil	0.07	2.0	0.1	<0.05	5.8	7.97	37.1	0.03	<1	0.3	43.8	<10	<2
AA068201	Soil	0.03	2.3	0.4	<0.05	5.9	8.56	40.0	0.03	<1	0.5	41.1	<10	<2
AA068202	Soil	0.15	3.0	0.2	<0.05	4.5	20.45	29.1	0.05	<1	0.4	29.5	<10	<2
AA068203	Soil	0.16	3.3	0.3	<0.05	2.3	30.50	47.7	0.07	<1	0.6	15.3	<10	<2
AA068204	Soil	0.21	3.8	0.2	<0.05	4.9	9.20	26.6	0.03	<1	0.6	23.9	<10	<2
AA068205	Soil	0.11	3.2	0.4	<0.05	3.8	12.47	38.2	0.03	<1	0.3	13.4	<10	<2
AA068206	Soil	0.13	4.6	0.2	<0.05	1.3	2.70	23.0	0.04	<1	0.3	41.6	<10	<2
AA068207	Soil	0.10	3.8	0.1	<0.05	1.0	1.51	17.7	<0.02	<1	0.2	37.8	<10	<2
AA068208	Soil	0.15	6.1	0.3	<0.05	2.2	3.05	20.1	0.03	<1	0.2	53.7	<10	<2
AA068209	Soil	0.08	0.8	0.2	<0.05	0.2	0.77	5.1	<0.02	<1	<0.1	2.1	<10	<2
AA068210	Soil	0.14	3.6	0.3	<0.05	1.7	4.66	34.3	0.03	<1	0.2	45.2	<10	<2



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Project: None Given

Report Date: August 30, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000177.1

Method Analyte	Unit	MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
AA068211	Soil		0.53	84.06	62.89	106.2	231	48.3	34.0	956	4.70	14.7	2.5	0.5	17.9	26.8	0.07	0.74	0.74	12	0.35	0.072
AA068212	Soil		0.53	62.00	51.43	104.9	113	46.7	34.8	865	4.63	15.8	2.3	0.9	13.5	23.4	0.07	0.81	0.62	12	0.49	0.063
AA068213	Soil		0.63	64.31	47.24	109.7	134	48.9	33.0	661	4.76	16.8	2.8	3.4	15.3	35.9	0.11	0.98	0.66	14	0.78	0.073
AA068214	Soil		0.40	61.74	55.61	97.1	102	41.6	31.0	1054	4.19	13.9	2.1	0.5	16.9	19.0	0.07	0.56	0.67	17	0.21	0.047
AA068215	Soil		0.47	50.70	40.40	105.4	185	43.3	21.3	374	4.21	17.1	2.0	1.9	9.1	51.8	0.09	0.98	0.55	12	1.23	0.077
AA068216	Soil		0.36	47.48	46.48	90.3	108	37.8	22.0	604	3.89	13.0	1.7	0.9	10.7	21.6	0.07	0.55	0.56	15	0.37	0.050
AA068217	Soil		0.30	41.01	45.29	94.0	53	36.6	23.4	769	3.93	12.4	1.4	0.9	12.4	13.9	0.04	0.49	0.55	15	0.19	0.040
AA068218	Soil		0.38	35.92	28.05	66.9	97	27.3	13.4	326	2.68	9.7	1.4	1.0	6.2	47.0	0.05	0.66	0.38	11	0.90	0.058
AA068219	Soil		0.29	32.34	24.31	64.2	101	24.0	9.8	291	2.70	9.5	1.7	0.6	6.3	14.7	0.03	0.45	0.43	11	0.16	0.062
AA068220	Soil		0.33	24.48	18.93	73.2	119	28.9	10.9	348	3.38	14.3	3.2	0.5	5.5	32.9	0.04	0.39	0.46	17	0.32	0.068
AA068221	Soil		0.57	25.39	24.33	94.1	56	24.9	12.5	499	3.12	11.3	2.1	<0.2	6.4	25.9	0.08	0.45	0.44	14	0.33	0.064
AA068222	Soil		0.39	27.41	18.11	77.5	63	35.3	11.2	219	3.41	14.1	1.9	3.0	9.0	25.7	0.06	0.37	0.43	14	0.25	0.037
AA068223	Soil		0.31	26.93	22.33	78.5	17	32.7	13.1	354	3.65	26.0	2.4	3.3	10.2	7.4	0.05	0.50	0.41	13	0.06	0.034
AA068224	Soil		0.59	32.12	25.13	103.1	246	35.5	11.7	323	3.46	202.8	8.7	8.4	8.7	23.1	0.08	0.64	0.55	14	0.15	0.062
AA068225	Soil		0.81	22.09	26.49	84.8	91	27.8	11.6	288	3.18	148.8	7.8	2.2	4.8	43.1	0.11	0.52	0.37	13	0.32	0.075
AA068226	Soil		0.14	3.07	4.31	17.1	29	4.3	1.7	135	0.61	3.3	0.7	<0.2	<0.1	11.3	0.05	0.07	0.09	8	0.18	0.032
AA068227	Soil		0.22	3.42	4.90	21.3	26	5.9	2.2	215	0.69	5.0	0.9	0.2	<0.1	12.5	0.10	0.10	0.11	8	0.18	0.038
AA068228	Soil		0.42	10.37	10.38	53.5	32	17.1	5.6	279	2.20	15.4	0.6	0.9	1.2	8.9	0.12	0.34	0.27	15	0.06	0.069
AA068229	Soil		0.51	16.47	21.19	44.3	63	13.8	8.3	349	2.04	25.1	0.7	4.8	0.6	5.4	0.05	0.46	0.27	11	0.03	0.084
AA068230	Soil		0.22	3.06	3.79	13.0	51	2.1	1.9	145	0.43	3.2	0.2	1.0	<0.1	4.3	0.06	0.11	0.06	6	0.03	0.055
AA068231	Soil		0.29	15.06	13.30	33.4	29	10.5	5.0	137	1.50	33.0	0.7	11.0	1.0	5.4	0.03	0.34	0.18	11	0.05	0.045
AA068232	Soil		0.47	34.51	36.47	90.7	88	32.4	15.9	379	3.74	131.2	1.5	23.4	8.4	5.4	0.07	1.06	0.44	14	0.01	0.043
AA068233	Soil		0.40	35.30	28.63	92.1	25	38.2	18.0	352	3.83	54.2	1.6	14.1	12.7	8.9	0.04	0.92	0.43	12	0.06	0.024
AA068234	Soil		0.29	26.70	26.41	84.6	61	31.2	11.9	249	3.33	111.4	1.4	22.1	9.5	12.6	0.04	0.86	0.40	13	0.12	0.043
AA068235	Soil		0.35	32.18	25.77	83.7	112	31.6	10.5	168	3.17	30.5	1.6	7.5	7.6	29.8	0.05	1.03	0.42	13	0.36	0.052
AA068236	Soil		0.38	23.46	24.75	72.0	100	23.8	12.6	442	3.15	46.5	1.3	8.7	4.2	18.0	0.08	1.11	0.35	14	0.17	0.061
AA068237	Soil		0.52	20.88	15.93	71.9	73	29.5	8.6	373	4.00	11.5	1.0	0.7	6.2	3.4	0.09	0.36	0.44	20	0.04	0.066
AA068238	Soil		0.53	25.61	15.23	76.7	17	25.9	9.4	405	5.29	16.4	0.8	<0.2	5.0	3.1	0.06	0.50	0.60	26	0.02	0.057
AA068239	Soil		0.60	45.85	35.86	84.4	66	32.3	15.6	942	3.96	11.8	1.4	0.3	4.5	3.0	0.07	0.31	0.48	16	0.02	0.068
AA068240	Soil		0.58	54.73	36.36	93.1	119	38.5	18.8	1126	4.69	21.0	2.1	2.3	8.1	5.6	0.09	0.76	0.77	19	0.07	0.054



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Project: None Given

Report Date: August 30, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000177.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.01	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA068211	Soil	22.7	28.6	0.81	30.7	<0.001	<1	2.09	0.005	0.04	<0.1	3.6	0.04	<0.02	25	0.3	0.06	5.6	1.40	<0.1	0.12
AA068212	Soil	20.0	26.1	0.83	27.8	0.002	<1	1.89	0.003	0.02	<0.1	2.5	0.03	<0.02	7	0.2	0.07	5.3	0.64	<0.1	0.12
AA068213	Soil	20.8	20.9	0.69	27.0	0.002	1	1.65	0.004	0.03	<0.1	3.2	0.04	<0.02	27	0.5	0.12	4.3	0.71	<0.1	0.21
AA068214	Soil	23.6	27.6	0.86	34.1	0.001	<1	2.13	0.003	0.04	<0.1	2.2	0.03	<0.02	<5	0.1	0.06	5.8	0.72	<0.1	0.08
AA068215	Soil	17.3	20.1	0.59	27.2	0.001	1	1.50	0.003	0.03	<0.1	3.4	0.03	0.04	16	0.5	0.06	3.5	0.65	<0.1	0.15
AA068216	Soil	15.9	24.7	0.77	26.3	0.001	<1	1.89	0.003	0.03	<0.1	2.3	0.02	0.02	5	0.2	0.05	4.8	0.48	<0.1	0.12
AA068217	Soil	15.4	25.8	0.83	22.5	0.001	<1	1.86	0.002	0.02	<0.1	1.7	0.02	<0.02	<5	<0.1	0.04	5.3	0.35	<0.1	0.09
AA068218	Soil	12.5	15.9	0.44	26.9	0.004	1	1.30	0.016	0.02	<0.1	1.8	0.02	0.05	<5	0.4	<0.02	3.2	0.37	<0.1	0.11
AA068219	Soil	14.3	16.7	0.45	52.3	0.002	<1	1.61	0.017	0.04	<0.1	1.9	0.04	<0.02	12	0.3	<0.02	4.2	0.93	<0.1	0.13
AA068220	Soil	16.0	25.7	0.67	63.6	0.002	<1	1.87	0.003	0.07	<0.1	1.5	0.06	0.03	6	0.3	<0.02	5.6	0.86	<0.1	0.08
AA068221	Soil	14.5	19.9	0.54	45.1	0.002	<1	1.54	0.006	0.04	<0.1	1.6	0.04	0.04	6	<0.1	<0.02	4.2	0.89	<0.1	0.12
AA068222	Soil	18.0	25.1	0.75	25.7	0.001	<1	1.80	0.003	0.04	<0.1	1.9	0.03	<0.02	5	0.3	0.04	4.3	0.56	<0.1	0.09
AA068223	Soil	22.6	22.7	0.73	35.3	0.001	<1	1.80	0.002	0.04	<0.1	1.7	0.03	<0.02	<5	<0.1	0.03	4.4	0.48	<0.1	0.10
AA068224	Soil	16.1	24.5	0.76	28.9	0.003	<1	1.89	0.003	0.04	<0.1	2.6	0.03	0.03	10	0.6	0.03	4.4	0.80	<0.1	0.15
AA068225	Soil	11.9	22.1	0.56	43.3	0.003	1	1.60	0.007	0.04	<0.1	2.5	0.04	0.06	14	0.3	0.03	3.7	1.38	<0.1	0.11
AA068226	Soil	4.1	5.7	0.13	19.4	0.007	1	0.61	0.027	0.03	<0.1	0.3	0.03	0.03	10	0.2	<0.02	2.0	0.40	<0.1	<0.02
AA068227	Soil	5.1	6.7	0.14	22.0	0.009	2	0.65	0.028	0.03	<0.1	0.3	0.03	0.03	12	0.3	<0.02	2.2	0.40	<0.1	<0.02
AA068228	Soil	13.0	15.7	0.42	51.7	0.004	1	1.27	0.007	0.03	<0.1	0.8	0.06	0.03	11	0.2	<0.02	3.9	0.78	<0.1	0.03
AA068229	Soil	8.7	11.3	0.26	23.8	0.003	<1	0.93	0.009	0.03	<0.1	0.3	0.04	0.05	31	0.2	0.03	3.3	0.57	<0.1	<0.02
AA068230	Soil	2.4	2.6	0.04	11.8	0.003	1	0.19	0.016	0.03	<0.1	<0.1	0.02	0.04	17	0.6	<0.02	0.9	0.43	<0.1	<0.02
AA068231	Soil	9.9	8.3	0.23	16.6	0.009	1	1.04	0.017	0.03	<0.1	0.5	0.04	<0.02	15	0.3	0.04	2.8	0.46	<0.1	0.03
AA068232	Soil	22.0	20.2	0.55	38.3	0.002	<1	1.78	0.002	0.04	<0.1	1.3	0.05	<0.02	19	0.4	0.06	4.5	1.02	<0.1	0.07
AA068233	Soil	21.3	22.2	0.69	28.5	0.002	<1	1.82	0.002	0.03	<0.1	1.4	0.03	<0.02	<5	0.3	0.07	4.7	0.69	<0.1	0.03
AA068234	Soil	19.2	18.8	0.55	38.8	0.003	<1	1.56	0.004	0.03	<0.1	1.8	0.03	<0.02	8	<0.1	<0.02	4.0	0.62	<0.1	0.05
AA068235	Soil	20.7	16.7	0.45	55.7	0.003	1	1.42	0.008	0.04	<0.1	2.8	0.04	0.02	20	0.2	0.03	3.5	0.59	<0.1	0.13
AA068236	Soil	15.6	14.0	0.30	57.4	0.003	1	1.40	0.006	0.05	<0.1	1.5	0.07	0.04	25	0.2	0.04	3.4	0.90	<0.1	0.05
AA068237	Soil	21.1	27.3	0.68	14.4	0.002	1	1.84	0.004	0.03	<0.1	1.6	0.04	0.03	38	<0.1	0.05	6.8	1.41	<0.1	0.07
AA068238	Soil	26.3	28.2	0.59	16.1	0.005	1	1.57	0.004	0.04	<0.1	1.1	0.05	0.03	18	0.3	0.07	10.0	2.37	<0.1	0.03
AA068239	Soil	14.2	27.6	0.69	24.1	0.002	1	1.87	0.006	0.03	<0.1	1.5	0.03	0.05	27	0.3	0.06	6.4	2.75	<0.1	0.11
AA068240	Soil	18.8	30.3	0.79	29.5	0.002	1	2.16	0.005	0.04	<0.1	2.7	0.04	0.02	25	0.2	0.11	6.8	3.81	<0.1	0.13



Bureau Veritas Commodities Canada Ltd.

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Client: **Golden Predator Mining Corp.**

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Vancouver BC V6C 3B6 CANADA

Project: None Given

Report Date: August 30, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000177.1

Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA068211	Soil	<0.02	2.4	0.2	<0.05	9.6	9.80	42.4	0.03	<1	0.6	63.4	<10	<2
AA068212	Soil	<0.02	1.5	0.3	<0.05	9.0	7.33	38.0	<0.02	<1	0.4	68.3	<10	<2
AA068213	Soil	0.04	1.7	0.2	<0.05	14.5	9.57	39.3	0.03	<1	0.5	50.6	<10	<2
AA068214	Soil	<0.02	2.4	0.4	<0.05	5.2	7.02	43.0	<0.02	<1	0.3	71.3	<10	<2
AA068215	Soil	0.05	2.2	0.2	<0.05	5.5	10.72	29.9	0.03	<1	0.2	41.5	<10	<2
AA068216	Soil	0.03	1.8	0.2	<0.05	5.0	6.94	28.2	0.02	<1	0.4	65.2	<10	<2
AA068217	Soil	<0.02	1.2	0.1	<0.05	5.2	5.00	28.7	<0.02	<1	<0.1	69.5	<10	<2
AA068218	Soil	0.17	1.8	0.7	<0.05	4.1	5.88	22.1	<0.02	<1	0.2	37.3	<10	<2
AA068219	Soil	0.13	4.5	0.3	<0.05	4.1	5.92	24.2	<0.02	<1	0.4	37.9	<10	<2
AA068220	Soil	0.10	6.8	0.3	<0.05	2.4	2.92	29.7	<0.02	<1	0.2	49.3	<10	<2
AA068221	Soil	0.15	6.2	0.3	<0.05	4.4	5.01	24.7	<0.02	<1	0.4	43.1	<10	<2
AA068222	Soil	0.09	4.4	0.2	<0.05	2.9	3.77	32.8	<0.02	<1	0.3	55.6	<10	<2
AA068223	Soil	0.07	4.8	0.2	<0.05	4.1	5.34	40.3	0.02	<1	0.1	51.3	<10	<2
AA068224	Soil	0.15	4.5	0.4	<0.05	5.5	9.17	28.5	0.03	<1	0.4	47.8	<10	<2
AA068225	Soil	0.31	4.8	0.5	<0.05	3.5	7.18	21.8	0.02	<1	0.6	35.4	<10	<2
AA068226	Soil	0.11	2.5	0.3	<0.05	0.1	1.38	7.7	<0.02	<1	0.2	6.6	<10	<2
AA068227	Soil	0.17	2.6	0.3	<0.05	0.1	1.75	9.3	<0.02	<1	0.2	7.9	<10	<2
AA068228	Soil	0.20	4.8	0.4	<0.05	0.7	2.22	24.2	<0.02	<1	0.2	27.2	<10	<2
AA068229	Soil	0.10	3.2	0.3	<0.05	0.7	1.37	15.8	<0.02	<1	<0.1	16.8	<10	<2
AA068230	Soil	0.03	3.4	0.2	<0.05	<0.1	0.27	4.6	<0.02	<1	0.1	1.8	<10	<2
AA068231	Soil	0.11	2.9	0.1	<0.05	0.7	1.55	19.3	<0.02	<1	0.2	15.8	<10	<2
AA068232	Soil	0.11	5.4	0.5	<0.05	2.6	3.30	44.0	0.02	<1	0.3	39.7	<10	<2
AA068233	Soil	0.05	3.2	0.2	<0.05	2.0	2.89	40.6	<0.02	2	0.4	51.3	<10	<2
AA068234	Soil	0.10	3.8	0.2	<0.05	2.1	5.54	35.5	<0.02	<1	0.3	34.8	<10	<2
AA068235	Soil	0.16	4.0	0.4	<0.05	4.5	10.22	33.3	0.03	<1	0.4	29.1	<10	<2
AA068236	Soil	0.21	6.4	0.6	<0.05	2.3	5.47	31.6	<0.02	<1	0.3	20.4	<10	<2
AA068237	Soil	0.14	3.9	0.4	<0.05	2.5	1.64	33.9	0.02	<1	<0.1	51.3	<10	<2
AA068238	Soil	0.27	6.8	0.3	<0.05	0.9	1.57	42.6	<0.02	<1	<0.1	39.6	<10	<2
AA068239	Soil	0.14	3.4	0.5	<0.05	3.8	2.11	23.4	0.03	<1	0.3	47.5	<10	<2
AA068240	Soil	0.12	4.6	0.3	<0.05	3.7	4.96	31.2	0.02	<1	0.4	59.5	<10	<2



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Project: None Given

Report Date: August 30, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000177.1

Method Analyte Unit MDL	AQ251																				
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
AA068241	Soil	0.10	20.03	4.13	24.5	36	4.6	2.9	79	0.82	1.5	0.4	1.5	0.4	36.9	0.03	0.12	0.07	15	0.44	0.074
AA068242	Soil	0.20	11.46	11.07	19.3	119	13.5	5.3	79	1.25	11.8	1.1	18.5	0.7	840.8	0.07	5.17	0.10	<2	24.22	0.043
AA068243	Soil	0.32	42.32	23.90	86.4	53	39.5	21.0	223	4.00	18.1	1.9	2.1	10.8	8.4	0.07	1.55	0.43	10	0.06	0.029
AA068244	Soil	0.61	31.19	53.09	48.7	106	35.1	16.2	535	4.05	20.4	1.9	3.0	6.7	29.0	0.20	2.76	0.41	8	0.36	0.056
AA068245	Soil	1.29	49.96	90.41	98.9	168	69.7	28.5	829	5.59	21.0	3.2	2.2	7.4	18.2	0.22	0.93	0.76	14	0.41	0.049
AA068246	Soil	0.35	26.56	27.93	54.0	40	21.9	9.7	572	3.42	23.5	1.0	3.1	4.4	14.6	0.13	1.72	0.26	8	0.17	0.055
AA068247	Soil	0.60	21.46	35.09	85.9	52	20.4	9.4	563	2.62	44.4	1.0	8.9	4.4	10.1	0.13	1.82	0.30	12	0.10	0.041
AA068248	Soil	0.42	11.57	28.49	60.1	31	13.5	5.9	511	2.35	9.0	1.2	0.7	1.4	34.6	0.20	0.67	0.23	13	0.58	0.081
AA068249	Soil	0.32	35.37	31.66	88.7	156	31.6	12.9	306	3.68	22.9	1.5	9.5	10.4	22.7	0.10	1.04	0.44	10	0.33	0.048
AA068250	Soil	0.34	35.00	31.99	93.4	149	33.6	13.3	342	3.69	22.3	1.4	8.0	7.7	35.8	0.09	1.11	0.43	11	0.77	0.072
AA068251	Soil	0.42	39.30	30.06	88.7	130	37.6	16.0	376	4.10	34.6	1.2	11.8	9.2	33.6	0.06	1.40	0.47	12	0.77	0.050
AA068252	Soil	0.35	38.28	29.84	83.6	100	37.4	17.8	443	3.86	32.7	1.3	8.4	8.0	39.1	0.10	1.32	0.43	11	0.97	0.059
AA068253	Soil	0.38	39.87	36.29	90.2	187	37.3	16.3	457	3.99	44.8	1.7	13.1	9.5	30.2	0.11	1.27	0.43	11	0.53	0.067
AA068254	Soil	0.42	20.43	18.58	52.0	54	16.3	9.3	222	2.87	14.6	1.0	2.3	1.6	14.6	0.13	0.81	0.32	14	0.19	0.078
AA068255	Soil	0.48	30.83	30.21	48.2	127	27.8	10.1	242	2.63	12.8	1.9	1.0	1.7	301.3	0.24	0.43	0.28	7	8.12	0.058
AA068256	Soil	0.32	47.05	27.23	111.3	90	46.1	26.0	744	4.05	72.6	1.5	27.1	6.4	29.9	0.09	2.35	0.41	11	0.98	0.047
AA068257	Soil	0.66	32.46	32.22	79.6	72	27.5	14.0	733	4.41	25.0	1.2	1.1	3.6	4.5	0.12	0.54	0.57	20	0.03	0.102
AA068258	Soil	0.61	29.12	33.75	74.0	67	26.2	14.5	1069	4.41	22.9	1.1	4.3	2.5	4.6	0.11	0.51	0.49	21	0.02	0.111
AA068259	Soil	0.23	18.54	14.87	21.7	117	7.8	3.5	103	1.07	22.4	0.9	7.9	0.2	5.4	0.03	0.21	0.20	8	0.05	0.053
AA068260	Soil	0.81	61.42	53.31	83.7	199	32.2	7.5	328	4.98	25.1	2.2	5.8	8.0	14.8	0.08	1.45	0.67	14	0.09	0.147
AA068261	Soil	0.60	56.27	37.62	120.4	264	43.2	27.4	948	4.60	22.9	1.5	3.4	7.4	3.6	0.26	1.35	0.61	13	0.02	0.049
AA068262	Soil	0.74	29.89	30.35	56.2	97	17.6	10.5	351	3.32	23.2	0.9	4.8	1.6	4.6	0.05	1.01	0.52	23	0.02	0.065
AA068263	Soil	0.50	23.89	24.70	61.6	37	24.3	9.7	243	3.63	21.2	0.9	2.5	8.9	4.1	0.09	0.64	0.42	19	0.04	0.037
AA068264	Soil	0.43	30.40	23.02	73.7	77	31.0	9.7	311	3.70	17.6	1.0	3.1	4.6	5.0	0.07	0.48	0.43	17	0.07	0.063
AA068265	Soil	0.35	44.44	54.97	95.2	63	38.2	26.7	879	4.12	10.9	1.8	3.6	14.2	8.7	0.06	0.49	0.64	15	0.08	0.031
AA068266	Soil	0.53	69.82	62.97	107.3	165	43.3	32.8	991	4.56	15.4	3.4	4.1	13.7	11.3	0.05	0.66	0.71	18	0.11	0.054
AA068267	Soil	0.54	62.45	47.86	109.4	227	44.4	25.5	538	4.47	14.0	2.5	4.1	12.3	69.0	0.11	0.89	0.55	13	2.00	0.068
AA068268	Soil	0.49	53.97	45.47	101.8	170	46.9	27.7	471	4.24	19.3	1.9	6.2	14.1	72.0	0.09	1.24	0.59	11	1.64	0.063
AA068269	Soil	0.60	57.56	38.86	116.6	160	50.4	26.2	439	4.70	16.5	2.3	2.4	14.6	58.4	0.14	1.17	0.62	12	1.19	0.070
AA068270	Soil	0.54	61.68	54.64	99.4	135	44.3	30.3	813	4.29	17.4	1.8	5.4	16.3	28.0	0.09	1.15	0.68	13	0.38	0.052



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Project: None Given

Report Date: August 30, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000177.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA068241	Soil	8.0	2.8	0.07	35.0	0.019	1	0.45	0.050	0.03	<0.1	0.9	0.03	0.03	18	<0.1	0.02	1.3	0.23	<0.1	<0.02
AA068242	Soil	8.8	1.6	0.05	17.8	<0.001	2	0.19	0.002	0.02	<0.1	1.1	<0.02	<0.02	25	<0.1	0.07	0.1	0.16	<0.1	0.07
AA068243	Soil	22.7	10.0	0.12	37.2	<0.001	1	1.12	0.005	0.04	<0.1	2.2	0.06	0.02	23	0.2	0.07	2.1	3.22	<0.1	0.03
AA068244	Soil	24.7	8.6	0.17	39.1	<0.001	<1	0.92	0.002	0.03	<0.1	2.6	0.04	0.03	33	0.4	0.12	2.2	0.88	<0.1	0.04
AA068245	Soil	31.8	20.0	0.70	22.2	0.002	<1	1.82	0.001	0.02	<0.1	5.4	0.03	0.03	45	0.8	0.38	3.5	0.51	<0.1	0.08
AA068246	Soil	21.9	6.8	0.18	72.0	0.001	1	1.08	0.004	0.04	<0.1	1.5	0.06	0.03	15	0.1	<0.02	2.3	1.75	<0.1	0.04
AA068247	Soil	30.2	7.8	0.10	78.2	0.001	<1	1.08	0.003	0.06	<0.1	1.1	0.10	0.02	13	0.3	<0.02	3.1	2.68	<0.1	<0.02
AA068248	Soil	16.3	9.2	0.15	79.1	0.007	2	0.85	0.003	0.02	<0.1	2.0	0.04	0.06	21	0.3	<0.02	2.2	0.47	<0.1	0.03
AA068249	Soil	19.6	17.3	0.57	45.9	0.001	1	1.49	0.003	0.04	0.3	3.0	0.03	<0.02	16	<0.1	0.03	3.7	0.71	<0.1	0.16
AA068250	Soil	20.1	16.2	0.51	44.7	0.003	2	1.42	0.003	0.04	0.3	3.1	0.03	0.03	22	0.3	0.04	3.6	0.58	<0.1	0.19
AA068251	Soil	22.8	21.8	0.69	31.1	0.001	2	1.67	0.003	0.04	<0.1	3.2	0.02	0.02	15	0.2	0.05	4.1	0.69	<0.1	0.17
AA068252	Soil	19.0	19.8	0.67	25.0	0.001	2	1.57	0.004	0.03	<0.1	2.6	0.03	0.03	17	0.1	0.03	4.1	0.54	<0.1	0.17
AA068253	Soil	22.2	18.7	0.63	41.0	0.001	1	1.59	0.004	0.04	<0.1	3.5	0.03	0.03	28	0.1	0.03	3.6	0.81	<0.1	0.17
AA068254	Soil	11.6	11.2	0.25	43.6	0.003	1	1.04	0.013	0.03	<0.1	0.7	0.06	0.05	26	0.1	0.02	4.0	1.12	<0.1	0.04
AA068255	Soil	35.9	8.9	0.42	17.3	0.001	2	0.65	0.004	0.02	<0.1	3.8	0.02	0.05	60	0.1	0.05	1.4	0.23	<0.1	0.03
AA068256	Soil	23.8	16.3	0.64	42.9	<0.001	2	1.51	0.003	0.03	<0.1	4.5	0.04	0.03	39	0.2	0.07	3.4	1.04	<0.1	0.08
AA068257	Soil	16.7	28.6	0.58	30.0	0.007	2	1.86	0.005	0.04	<0.1	1.4	0.05	0.04	25	0.3	0.13	6.2	2.51	<0.1	0.05
AA068258	Soil	11.2	27.7	0.55	32.0	0.005	<1	1.67	0.005	0.03	<0.1	0.8	0.04	0.05	27	0.2	0.09	6.8	2.24	<0.1	0.06
AA068259	Soil	4.1	7.4	0.14	23.0	0.005	<1	0.78	0.021	0.02	<0.1	0.4	0.04	0.03	15	0.1	0.05	2.5	2.15	<0.1	<0.02
AA068260	Soil	9.6	31.5	0.72	28.5	0.001	<1	1.90	0.006	0.03	<0.1	1.5	0.04	0.08	69	0.5	0.16	5.7	3.39	<0.1	0.16
AA068261	Soil	12.0	23.6	0.60	23.1	0.002	<1	1.81	0.004	0.05	<0.1	1.8	0.04	0.04	60	0.2	0.13	5.2	3.20	<0.1	0.07
AA068262	Soil	18.0	15.1	0.26	26.7	0.005	2	0.96	0.003	0.03	<0.1	0.6	0.06	0.04	37	0.2	0.11	5.6	1.79	<0.1	<0.02
AA068263	Soil	25.7	21.2	0.46	19.0	0.010	1	1.44	0.003	0.02	0.1	1.4	0.05	<0.02	16	<0.1	0.11	5.1	0.89	<0.1	0.03
AA068264	Soil	17.4	23.4	0.66	25.7	0.003	<1	1.68	0.007	0.02	<0.1	1.2	0.04	0.02	32	0.3	0.11	5.7	1.02	<0.1	0.05
AA068265	Soil	18.0	28.0	0.87	22.7	0.001	<1	2.06	0.002	0.02	<0.1	1.7	0.03	<0.02	21	0.2	0.09	5.6	0.52	<0.1	0.06
AA068266	Soil	21.4	33.4	0.93	22.3	0.002	<1	2.22	0.004	0.04	<0.1	2.6	0.03	0.02	72	<0.1	0.12	6.2	0.99	<0.1	0.08
AA068267	Soil	15.9	24.7	0.69	21.7	<0.001	1	1.71	0.003	0.04	<0.1	3.2	0.03	0.06	42	0.4	0.13	4.5	1.02	<0.1	0.14
AA068268	Soil	14.2	20.1	0.59	24.6	<0.001	<1	1.49	0.003	0.04	<0.1	2.7	0.03	0.05	39	0.5	0.16	3.8	0.97	<0.1	0.13
AA068269	Soil	21.3	18.4	0.68	28.9	0.001	1	1.44	0.004	0.04	<0.1	4.0	0.04	0.09	33	0.4	0.13	3.4	0.98	<0.1	0.14
AA068270	Soil	21.0	24.6	0.74	29.1	<0.001	<1	1.75	0.003	0.03	<0.1	2.6	0.04	0.02	31	0.4	0.13	4.7	0.83	<0.1	0.10



Bureau Veritas Commodities Canada Ltd.

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Project: None Given  
Report Date: August 30, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000177.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA068241	Soil	0.13	1.9	0.1	<0.05	0.4	3.27	13.9	<0.02	1	0.2	2.4	<10	<2
AA068242	Soil	0.05	1.0	0.2	<0.05	2.0	4.47	16.7	<0.02	1	0.4	0.6	10	<2
AA068243	Soil	0.04	6.3	0.3	<0.05	1.5	4.94	45.0	0.03	<1	0.5	12.9	<10	<2
AA068244	Soil	0.07	4.3	0.3	<0.05	2.4	9.14	63.4	0.07	<1	0.5	11.4	<10	<2
AA068245	Soil	0.07	2.1	0.2	<0.05	3.7	25.59	71.8	0.13	<1	0.6	48.8	<10	<2
AA068246	Soil	0.09	5.4	0.3	<0.05	1.7	4.28	44.8	0.03	1	0.6	12.7	<10	<2
AA068247	Soil	0.13	10.7	0.3	<0.05	1.3	4.01	57.3	0.02	<1	0.1	8.2	<10	<2
AA068248	Soil	0.40	3.5	0.3	<0.05	1.4	10.05	44.5	0.03	<1	0.4	7.0	<10	<2
AA068249	Soil	0.07	3.2	0.4	<0.05	7.2	12.32	34.7	0.04	<1	0.5	38.3	<10	<2
AA068250	Soil	0.16	3.3	0.4	<0.05	6.9	13.70	36.2	0.04	<1	0.4	33.3	<10	<2
AA068251	Soil	0.08	2.4	0.3	<0.05	6.9	9.47	39.2	0.04	<1	0.4	42.8	<10	<2
AA068252	Soil	0.07	2.2	0.5	<0.05	6.8	9.36	35.4	<0.02	<1	0.3	41.4	<10	<2
AA068253	Soil	0.09	3.5	0.3	<0.05	7.0	14.75	39.5	0.04	<1	0.6	37.1	<10	<2
AA068254	Soil	0.26	4.9	0.5	<0.05	1.5	2.59	22.1	0.02	<1	0.3	13.6	<10	<2
AA068255	Soil	0.04	1.6	0.3	<0.05	2.2	14.04	65.7	0.02	<1	0.5	16.3	<10	<2
AA068256	Soil	0.04	2.9	0.5	<0.05	4.0	19.44	42.0	0.04	<1	0.5	40.9	<10	<2
AA068257	Soil	0.22	5.6	0.3	<0.05	2.5	2.36	29.5	<0.02	<1	0.2	44.5	<10	<2
AA068258	Soil	0.23	4.3	0.4	<0.05	2.1	1.86	20.2	0.02	<1	0.2	38.9	<10	<2
AA068259	Soil	0.10	2.6	0.2	<0.05	0.3	1.60	7.1	<0.02	<1	0.1	9.6	<10	<2
AA068260	Soil	0.05	2.8	0.3	<0.05	5.3	1.88	16.6	0.03	<1	0.3	47.1	<10	<2
AA068261	Soil	0.11	5.5	0.3	<0.05	2.6	2.44	21.3	0.02	<1	0.7	39.0	<10	<2
AA068262	Soil	0.25	3.8	0.6	<0.05	0.3	2.24	32.9	0.02	<1	0.2	17.7	<10	2
AA068263	Soil	0.43	4.1	0.3	<0.05	1.9	2.64	49.0	<0.02	<1	0.3	33.7	<10	<2
AA068264	Soil	0.19	2.4	0.3	<0.05	2.2	1.93	30.7	<0.02	<1	0.3	44.0	<10	<2
AA068265	Soil	0.02	1.9	0.2	<0.05	3.0	4.61	32.7	<0.02	<1	0.3	68.0	12	<2
AA068266	Soil	0.03	3.3	0.4	<0.05	3.6	6.53	35.1	<0.02	<1	0.6	76.2	13	5
AA068267	Soil	0.03	2.1	0.2	<0.05	7.1	9.32	27.7	<0.02	<1	0.3	54.1	<10	3
AA068268	Soil	<0.02	2.1	0.4	<0.05	6.0	8.26	24.2	0.03	1	0.6	41.9	<10	<2
AA068269	Soil	0.04	2.2	0.6	<0.05	9.4	11.55	38.2	0.03	<1	0.7	44.9	<10	<2
AA068270	Soil	0.02	2.1	0.8	<0.05	8.0	8.03	37.9	0.03	2	0.7	58.3	<10	3



Bureau Veritas Commodities Canada Ltd.

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Client: **Golden Predator Mining Corp.**

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Project: None Given

Report Date: August 30, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000177.1

Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
MDL		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
AA068271	Soil	0.48	52.80	45.21	97.0	120	42.1	25.4	654	4.26	15.5	1.6	3.6	14.1	33.0	0.11	0.98	0.62	13	0.59	0.055
AA068272	Soil	0.47	52.72	47.94	103.2	129	44.3	24.9	704	4.32	16.0	1.9	4.0	15.3	28.3	0.09	1.03	0.61	13	0.40	0.061
AA068273	Soil	0.33	53.13	50.36	99.7	145	38.0	24.2	510	3.85	12.5	3.2	4.4	11.9	46.5	0.08	0.70	0.61	12	0.44	0.050
AA068274	Soil	0.47	58.54	48.89	97.4	148	40.6	24.3	605	4.24	12.7	1.9	2.5	15.0	30.1	0.06	0.76	0.63	14	0.40	0.048
AA068275	Soil	0.37	47.65	40.95	92.0	122	39.4	20.1	531	3.95	11.6	1.6	3.3	14.8	29.2	0.07	0.75	0.59	13	0.45	0.041
AA068276	Soil	0.31	42.69	30.93	91.5	87	39.3	19.4	508	3.73	21.8	0.9	8.5	15.2	20.1	0.02	0.72	0.49	12	0.16	0.037
AA068277	Soil	0.64	21.66	15.37	84.1	59	31.2	10.3	249	3.68	19.6	1.2	4.8	9.5	14.0	0.04	0.46	0.42	13	0.11	0.034
AA068278	Soil	0.48	9.24	9.60	49.6	35	18.3	6.9	227	2.35	12.1	0.6	3.5	2.3	13.1	0.06	0.22	0.27	12	0.11	0.055
AA068279	Soil	0.47	11.49	10.61	64.6	29	26.4	9.2	269	3.08	15.8	0.5	2.8	5.4	10.8	0.04	0.29	0.32	13	0.09	0.038
AA068280	Soil	0.44	21.57	20.10	54.5	82	23.3	8.5	298	2.60	176.8	3.2	5.0	3.6	21.9	0.02	0.42	0.40	12	0.13	0.057
AA068281	Soil	0.41	18.11	20.94	52.3	42	18.2	7.1	171	2.27	39.1	1.1	3.5	3.2	3.6	0.04	0.48	0.31	10	0.02	0.069
AA068282	Soil	0.73	12.88	14.35	33.7	57	6.3	3.7	103	1.75	28.9	0.7	5.5	0.2	8.5	0.10	0.49	0.30	19	0.06	0.112
AA068283	Soil	0.48	30.50	36.03	92.6	77	23.9	14.3	755	2.95	240.7	3.0	8.2	5.7	11.9	0.08	0.97	0.49	14	0.06	0.106
AA068284	Soil	0.49	28.01	36.92	79.8	78	29.2	16.8	627	3.29	157.4	1.2	14.4	5.8	9.4	0.11	1.62	0.40	13	0.06	0.061
AA068285	Soil	0.66	25.79	27.04	57.3	35	19.0	10.0	286	2.80	42.9	1.0	4.7	2.8	8.1	0.07	1.02	0.45	13	0.04	0.059
AA068286	Soil	0.70	36.95	73.68	93.3	100	20.8	15.5	560	3.00	78.4	1.3	8.0	2.1	4.9	0.06	1.09	0.48	12	0.01	0.077
AA068287	Soil	0.27	6.76	7.46	13.6	55	3.7	1.7	48	0.68	9.3	0.5	<0.2	0.1	4.2	0.03	0.23	0.13	8	0.02	0.037
AA068288	Soil	0.44	40.89	54.93	89.4	56	29.8	24.4	864	3.93	177.1	1.7	20.6	10.4	7.0	0.06	1.14	0.58	10	0.02	0.073
AA068289	Soil	0.59	58.39	75.99	118.7	92	33.6	48.8	2129	4.27	26.9	3.7	2.8	10.9	5.0	0.09	0.72	0.47	12	0.02	0.086
AA068290	Soil	0.27	37.69	24.46	102.4	54	45.5	15.0	462	4.86	22.8	1.1	0.3	7.4	3.8	0.06	0.30	0.45	14	0.03	0.046
AA068291	Soil	0.50	41.65	32.97	109.6	50	52.6	22.0	863	5.04	39.6	0.9	1.1	7.5	4.2	0.11	0.46	0.60	15	0.04	0.048
AA068292	Soil	0.53	39.81	31.20	85.0	56	37.0	14.8	633	5.04	22.9	1.0	0.4	7.2	3.2	0.10	0.45	0.57	17	0.02	0.045
AA068293	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
AA068294	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
AA068295	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
AA068296	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
AA068297	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
AA068298	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
AA068299	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
AA068300	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.



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Project: None Given

Report Date: August 30, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000177.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sc ppm	Tl ppm	S %	Hg ppb	Se ppm	Te ppm	Ga ppm	Cs ppm	Ge ppm	Hf ppm	
AA068271	Soil	20.5	24.0	0.74	23.1	0.001	<1	1.70	0.003	0.04	<0.1	2.7	0.03	0.03	33	0.4	0.13	4.8	0.57	<0.1	0.11
AA068272	Soil	23.3	23.7	0.72	25.5	0.002	<1	1.66	0.003	0.03	<0.1	3.3	0.03	0.03	33	0.3	0.10	4.3	0.60	<0.1	0.12
AA068273	Soil	16.0	24.1	0.70	40.2	0.001	1	1.88	0.006	0.04	<0.1	2.8	0.04	0.03	23	0.4	0.10	5.0	0.90	<0.1	0.20
AA068274	Soil	22.2	26.6	0.76	35.7	0.002	<1	1.95	0.004	0.03	<0.1	3.0	0.04	0.03	23	0.5	0.07	5.4	0.99	<0.1	0.19
AA068275	Soil	19.7	26.1	0.75	30.2	0.001	<1	1.85	0.004	0.03	<0.1	2.3	0.03	0.03	21	0.1	0.09	5.1	0.89	<0.1	0.20
AA068276	Soil	24.6	21.9	0.75	28.3	0.001	<1	1.78	0.002	0.06	<0.1	1.7	0.02	<0.02	18	0.1	0.11	4.4	0.45	<0.1	0.08
AA068277	Soil	17.8	22.9	0.71	51.6	0.001	<1	1.85	0.002	0.05	<0.1	1.4	0.04	<0.02	19	0.1	0.09	4.9	0.56	<0.1	0.05
AA068278	Soil	12.5	15.9	0.49	47.4	0.004	<1	1.31	0.009	0.03	<0.1	0.7	0.05	0.03	21	0.2	0.06	4.2	0.65	<0.1	0.02
AA068279	Soil	16.7	20.6	0.66	46.5	0.002	<1	1.60	0.005	0.04	<0.1	1.1	0.04	0.02	9	<0.1	0.06	4.7	0.63	<0.1	<0.02
AA068280	Soil	11.8	17.4	0.53	32.5	0.004	<1	1.53	0.009	0.03	<0.1	1.2	0.04	0.04	15	0.1	0.07	4.4	0.89	<0.1	0.06
AA068281	Soil	9.5	16.1	0.37	20.0	0.003	<1	1.24	0.006	0.03	<0.1	0.5	0.03	0.04	19	0.1	0.03	3.7	0.74	<0.1	0.08
AA068282	Soil	9.0	8.6	0.07	25.7	0.004	<1	0.56	0.007	0.04	<0.1	0.2	0.08	0.07	34	<0.1	0.13	4.3	0.69	<0.1	<0.02
AA068283	Soil	9.7	15.4	0.30	70.8	0.002	<1	1.68	0.009	0.06	<0.1	1.2	0.09	0.06	28	0.3	0.07	4.1	3.01	<0.1	0.13
AA068284	Soil	16.8	16.1	0.37	39.2	0.004	<1	1.34	0.005	0.04	<0.1	1.2	0.04	0.02	20	0.3	0.11	3.3	1.06	<0.1	0.04
AA068285	Soil	15.4	13.7	0.25	40.6	0.004	<1	1.18	0.004	0.03	<0.1	0.8	0.07	0.02	11	0.1	0.02	4.0	0.99	<0.1	<0.02
AA068286	Soil	10.7	16.5	0.33	25.5	0.006	1	1.31	0.007	0.04	<0.1	0.7	0.05	0.05	25	0.3	0.04	4.2	0.98	<0.1	0.04
AA068287	Soil	4.4	4.6	0.07	16.8	0.005	<1	0.55	0.018	0.02	<0.1	0.2	0.04	0.03	9	<0.1	<0.02	2.3	0.40	<0.1	<0.02
AA068288	Soil	18.7	16.2	0.43	26.2	0.002	<1	1.59	0.002	0.04	<0.1	1.4	0.05	<0.02	<5	<0.1	0.05	3.9	1.22	<0.1	0.06
AA068289	Soil	12.4	22.0	0.64	30.5	0.003	<1	2.03	0.004	0.04	<0.1	1.9	0.06	0.02	14	<0.1	0.02	5.0	1.08	<0.1	0.10
AA068290	Soil	18.4	36.3	1.07	16.4	0.001	<1	2.57	0.005	0.03	<0.1	2.1	0.03	0.03	15	<0.1	0.05	8.1	2.38	<0.1	0.14
AA068291	Soil	22.8	33.3	0.94	40.3	0.003	<1	2.56	0.005	0.04	<0.1	2.1	0.03	0.02	14	<0.1	0.07	6.9	1.26	<0.1	0.15
AA068292	Soil	23.0	31.2	0.84	23.4	0.003	<1	2.24	0.004	0.03	<0.1	2.0	0.04	<0.02	15	<0.1	0.06	7.6	2.58	<0.1	0.07
AA068293	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
AA068294	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
AA068295	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
AA068296	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
AA068297	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
AA068298	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
AA068299	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
AA068300	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.



Bureau Veritas Commodities Canada Ltd.

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Client: **Golden Predator Mining Corp.**

510 - 580 Hornby Street  
Vancouver BC V6C 3B6 CANADA

Project: None Given

Report Date: August 30, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000177.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA068271	Soil	<0.02	1.9	0.7	<0.05	6.7	8.55	36.0	<0.02	2	0.4	56.6	<10	3
AA068272	Soil	0.03	2.1	0.5	<0.05	6.7	10.39	41.6	0.03	1	0.3	56.0	<10	2
AA068273	Soil	0.08	3.1	0.4	<0.05	7.7	10.08	29.3	0.02	<1	0.5	54.0	<10	<2
AA068274	Soil	0.11	3.0	0.2	<0.05	8.4	9.78	38.8	0.02	<1	0.5	62.4	<10	<2
AA068275	Soil	0.07	2.6	0.2	<0.05	8.5	7.68	34.3	0.03	<1	0.6	61.4	<10	<2
AA068276	Soil	<0.02	2.9	0.3	<0.05	5.5	4.31	45.7	0.02	<1	0.6	49.2	<10	<2
AA068277	Soil	0.07	5.8	0.5	<0.05	1.9	2.34	33.2	<0.02	1	0.4	48.1	<10	2
AA068278	Soil	0.17	4.9	0.7	<0.05	1.0	1.25	22.2	<0.02	<1	0.2	31.6	<10	2
AA068279	Soil	0.11	5.2	0.4	<0.05	1.1	1.38	30.0	<0.02	<1	0.1	43.0	<10	<2
AA068280	Soil	0.28	4.9	0.4	<0.05	2.1	3.13	21.7	<0.02	<1	0.4	31.3	<10	<2
AA068281	Soil	0.15	4.1	0.4	<0.05	2.7	1.49	18.5	<0.02	<1	0.4	22.9	<10	<2
AA068282	Soil	0.13	5.0	0.6	<0.05	0.3	1.04	16.7	<0.02	1	<0.1	3.2	<10	4
AA068283	Soil	0.24	11.8	0.5	<0.05	4.1	3.83	19.3	0.03	<1	0.6	23.1	<10	<2
AA068284	Soil	0.13	5.3	0.4	<0.05	1.4	3.96	34.2	0.03	<1	0.7	27.5	<10	<2
AA068285	Soil	0.29	6.3	0.5	<0.05	0.8	2.47	29.8	0.02	<1	0.2	18.7	<10	<2
AA068286	Soil	0.21	5.2	0.8	<0.05	1.2	2.11	19.5	0.02	<1	0.3	25.8	<10	<2
AA068287	Soil	0.09	2.0	0.6	<0.05	0.2	0.67	8.1	<0.02	<1	<0.1	4.2	<10	<2
AA068288	Soil	0.08	4.7	0.2	<0.05	1.9	3.45	37.3	0.03	<1	0.4	30.7	<10	<2
AA068289	Soil	0.11	5.0	0.3	<0.05	4.0	4.32	26.1	<0.02	<1	0.5	46.7	<10	<2
AA068290	Soil	0.05	2.6	0.2	<0.05	4.1	1.53	28.2	0.02	<1	0.2	78.2	<10	<2
AA068291	Soil	0.18	4.2	0.3	<0.05	4.7	2.55	38.8	0.03	<1	0.2	76.7	<10	<2
AA068292	Soil	0.18	5.3	0.3	<0.05	3.0	2.37	40.3	0.03	<1	0.4	63.0	<10	<2
AA068293	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
AA068294	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
AA068295	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
AA068296	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
AA068297	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
AA068298	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
AA068299	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
AA068300	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.



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Project: None Given

Report Date: August 30, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000177.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
AA068301	Soil	0.52	26.68	21.63	74.5	41	28.2	11.2	463	3.32	18.8	1.1	1.1	3.5	14.9	0.12	0.49	0.48	12	0.26	0.094
AA068302	Soil	0.49	22.46	17.47	54.8	56	20.9	9.3	744	3.11	16.3	0.8	1.3	0.4	13.1	0.05	0.42	0.41	16	0.19	0.097
AA068303	Soil	0.51	42.31	26.57	73.7	113	30.6	12.4	351	3.27	28.6	3.4	6.0	4.3	30.5	0.09	0.74	0.44	9	0.64	0.067
AA068304	Soil	0.42	48.91	26.77	109.8	138	46.3	17.1	731	4.60	49.4	1.8	4.1	6.6	11.0	0.08	0.43	0.56	13	0.16	0.057
AA068305	Soil	0.73	25.30	27.33	51.7	151	17.0	11.1	1345	4.15	17.6	0.9	0.5	0.9	6.5	0.10	0.46	0.50	24	0.06	0.135
AA068306	Soil	0.64	72.93	45.51	118.0	135	50.8	28.6	1316	4.89	40.3	1.6	3.6	6.8	7.6	0.14	0.58	0.70	13	0.09	0.070
AA068307	Soil	0.62	32.95	30.06	85.2	67	33.4	16.9	1408	4.74	28.5	1.0	1.7	2.4	5.2	0.13	0.68	0.60	18	0.05	0.124
AA068308	Soil	0.40	19.19	16.16	42.7	77	13.8	7.5	390	1.98	11.0	0.8	0.9	0.4	8.3	0.10	0.33	0.31	11	0.09	0.070
AA068309	Soil	1.05	62.10	73.90	91.7	87	37.6	24.8	1350	3.84	75.4	1.7	6.6	7.7	9.9	0.20	1.32	0.61	10	0.19	0.062
AA068310	Soil	0.44	17.30	35.53	62.6	108	16.4	7.6	639	2.44	31.2	1.3	4.7	6.4	20.7	0.14	0.37	0.34	12	0.48	0.075
AA068311	Soil	0.47	51.97	55.05	88.2	54	30.9	28.3	1248	3.64	15.0	2.3	0.2	11.6	8.0	0.05	0.64	0.53	12	0.06	0.045
AA068312	Soil	0.39	57.64	43.65	101.1	123	41.7	21.4	650	4.34	12.8	1.7	1.4	12.4	28.0	0.07	0.60	0.59	13	0.88	0.055
AA068313	Soil	0.27	47.18	39.97	89.3	115	41.9	25.4	656	4.10	12.1	1.7	1.9	11.4	158.8	0.09	0.90	0.45	14	8.08	0.077
AA068314	Soil	0.49	59.81	53.52	118.2	162	49.6	30.2	702	4.80	19.2	2.0	3.0	11.1	29.2	0.17	1.04	0.63	12	0.55	0.087
AA068315	Soil	0.43	61.24	56.54	113.0	197	46.3	33.9	766	4.58	65.3	1.7	18.5	13.1	25.1	0.12	0.97	0.62	10	0.37	0.055
AA068316	Soil	0.44	52.98	45.82	103.6	187	42.0	20.6	560	4.18	32.5	1.8	5.2	10.9	37.2	0.12	0.70	0.56	11	0.69	0.064
AA068317	Soil	0.64	8.45	12.82	27.3	46	5.5	3.5	358	0.98	10.2	4.0	0.2	0.3	11.9	0.08	0.24	0.17	9	0.13	0.090
AA068318	Soil	0.46	39.52	33.96	99.2	77	37.1	16.2	463	4.02	28.6	5.6	1.7	10.4	19.8	0.06	0.40	0.54	14	0.30	0.053
AA068319	Soil	0.64	54.43	50.65	97.0	207	38.9	17.8	457	4.16	44.9	16.7	1.3	11.6	39.4	0.08	0.57	0.76	13	0.40	0.070
AA068320	Soil	0.49	38.88	33.70	88.1	138	32.3	12.5	339	3.66	13.3	5.5	1.2	8.4	44.7	0.07	0.33	0.59	13	0.49	0.084



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Project: None Given

Report Date: August 30, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
AA068301	Soil	15.4	21.7	0.67	51.3	0.004	<1	1.72	0.008	0.04	<0.1	1.9	0.03	0.06	<5	<0.1	0.05	5.2	1.07	<0.1	0.12
AA068302	Soil	12.3	20.6	0.46	46.4	0.002	<1	1.32	0.009	0.03	<0.1	0.3	0.03	0.04	10	0.2	0.06	5.6	1.20	<0.1	<0.02
AA068303	Soil	12.6	17.8	0.56	41.7	0.002	<1	1.64	0.008	0.04	<0.1	1.9	0.04	0.05	18	<0.1	0.05	4.1	0.68	<0.1	0.23
AA068304	Soil	21.9	31.0	0.93	32.6	0.002	<1	2.39	0.006	0.04	<0.1	2.7	0.03	<0.02	18	<0.1	0.08	6.4	1.38	<0.1	0.09
AA068305	Soil	14.2	25.0	0.34	51.2	0.006	1	1.46	0.005	0.04	<0.1	0.5	0.06	0.05	37	0.2	0.03	7.2	1.51	<0.1	0.03
AA068306	Soil	16.2	30.1	0.89	35.4	0.001	<1	2.37	0.005	0.05	<0.1	2.0	0.03	0.02	31	0.2	0.09	5.9	2.25	<0.1	0.12
AA068307	Soil	14.3	28.3	0.71	55.6	0.005	<1	1.94	0.003	0.03	<0.1	1.1	0.04	0.05	23	0.3	0.07	6.4	1.36	<0.1	0.12
AA068308	Soil	7.5	11.1	0.29	29.1	0.007	<1	0.98	0.017	0.03	<0.1	0.5	0.03	0.04	14	0.2	0.04	3.6	1.05	<0.1	<0.02
AA068309	Soil	17.6	16.0	0.47	53.6	0.003	<1	1.59	0.007	0.04	<0.1	2.3	0.05	0.04	28	0.3	0.12	4.5	1.67	<0.1	0.05
AA068310	Soil	16.2	11.5	0.28	42.1	0.003	1	1.05	0.004	0.04	<0.1	1.8	0.04	0.05	37	0.2	0.05	3.3	1.04	<0.1	0.04
AA068311	Soil	21.2	21.5	0.68	34.2	0.002	<1	1.86	0.006	0.03	<0.1	1.9	0.04	<0.02	15	<0.1	0.05	5.3	0.85	<0.1	0.06
AA068312	Soil	20.0	28.0	0.83	28.1	0.001	<1	2.08	0.003	0.03	<0.1	2.7	0.03	<0.02	17	0.2	0.05	5.4	0.70	<0.1	0.12
AA068313	Soil	14.3	19.7	0.76	83.9	0.011	<1	1.79	0.004	0.04	<0.1	4.3	0.04	<0.02	22	<0.1	0.10	4.7	0.88	<0.1	0.12
AA068314	Soil	26.3	21.5	0.68	53.6	0.002	<1	1.59	0.004	0.05	0.1	4.2	0.04	0.02	23	0.3	0.08	4.9	0.59	<0.1	0.16
AA068315	Soil	19.0	22.9	0.75	34.7	0.001	<1	1.81	0.003	0.04	<0.1	3.0	0.04	<0.02	25	0.1	0.07	4.8	0.77	<0.1	0.11
AA068316	Soil	21.2	21.2	0.70	36.6	0.001	<1	1.79	0.004	0.04	<0.1	3.7	0.04	0.03	32	0.6	0.11	4.7	0.60	<0.1	0.14
AA068317	Soil	5.1	6.1	0.09	33.8	0.005	1	0.67	0.019	0.03	<0.1	0.4	0.04	0.07	21	0.1	<0.02	2.7	0.56	<0.1	<0.02
AA068318	Soil	17.8	28.7	0.77	48.3	0.001	<1	1.98	0.003	0.05	<0.1	2.4	0.04	0.02	7	0.2	0.05	5.1	0.62	<0.1	0.18
AA068319	Soil	16.3	29.6	0.75	38.2	0.001	<1	2.01	0.004	0.04	<0.1	3.6	0.04	0.04	20	0.5	0.04	5.6	0.76	<0.1	0.33
AA068320	Soil	13.1	29.4	0.75	33.9	0.003	1	1.96	0.004	0.03	<0.1	2.4	0.03	0.06	10	0.2	0.03	5.5	0.66	<0.1	0.24



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Project: None Given

Report Date: August 30, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA068301	Soil	0.19	4.0	0.5	<0.05	4.2	3.40	25.9	<0.02	<1	0.4	48.0	<10	<2
AA068302	Soil	0.09	5.1	0.4	<0.05	0.6	1.94	21.6	0.02	<1	0.2	33.3	<10	<2
AA068303	Soil	0.20	3.5	0.4	<0.05	7.0	6.86	21.7	<0.02	<1	0.4	38.4	13	<2
AA068304	Soil	0.07	3.2	0.2	<0.05	2.9	6.97	39.1	0.03	1	0.4	76.2	<10	<2
AA068305	Soil	0.22	5.4	0.5	<0.05	1.0	2.02	25.2	0.02	<1	0.2	23.5	<10	<2
AA068306	Soil	0.05	4.3	0.2	<0.05	3.5	3.90	29.7	0.03	<1	0.5	70.1	<10	<2
AA068307	Soil	0.22	4.4	0.5	<0.05	2.6	2.23	26.6	<0.02	<1	0.2	50.5	<10	<2
AA068308	Soil	0.13	3.3	0.2	<0.05	0.5	2.15	14.2	<0.02	<1	0.3	20.1	<10	<2
AA068309	Soil	0.18	3.7	0.6	<0.05	2.0	7.02	37.4	0.03	<1	0.7	33.3	<10	<2
AA068310	Soil	0.27	5.0	0.3	<0.05	1.9	7.46	32.1	<0.02	<1	0.5	18.5	<10	<2
AA068311	Soil	0.06	3.0	0.4	<0.05	2.1	6.75	38.8	<0.02	<1	0.6	51.5	<10	<2
AA068312	Soil	0.06	2.6	0.4	<0.05	4.5	8.03	34.9	0.03	<1	0.4	60.2	<10	<2
AA068313	Soil	0.21	3.0	0.5	<0.05	6.7	9.62	28.8	0.03	<1	0.5	34.3	<10	<2
AA068314	Soil	0.09	2.6	0.2	<0.05	6.1	13.36	47.2	0.05	<1	0.7	45.7	<10	2
AA068315	Soil	0.08	2.6	0.5	<0.05	5.9	9.74	34.1	0.02	<1	0.8	53.1	<10	<2
AA068316	Soil	0.10	3.0	0.5	<0.05	6.5	12.72	37.0	0.05	<1	0.2	48.7	<10	2
AA068317	Soil	0.18	3.7	0.7	<0.05	0.6	2.12	8.6	<0.02	<1	0.2	6.0	<10	<2
AA068318	Soil	0.11	5.3	0.5	<0.05	6.1	6.17	31.8	<0.02	<1	0.4	56.9	<10	<2
AA068319	Soil	0.13	4.7	0.9	<0.05	10.8	11.59	27.7	0.04	<1	0.9	56.7	20	2
AA068320	Soil	0.24	4.7	0.3	<0.05	7.2	7.24	22.7	0.03	1	0.5	58.5	<10	<2



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Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
AA068006	Soil	0.53	36.24	27.54	86.4	32	40.0	15.9	583	4.27	19.2	0.8	9.8	4.7	5.3	0.05	0.51	0.48	17	0.03	0.055
REP AA068006	QC	0.49	38.43	28.04	86.3	36	38.6	16.2	595	4.27	20.0	0.8	1.8	4.5	5.4	0.07	0.53	0.47	17	0.03	0.056
AA068041	Soil	0.61	52.84	33.77	90.7	135	41.3	28.3	729	4.26	96.5	1.7	20.1	15.7	24.5	0.07	1.27	0.56	9	0.45	0.056
REP AA068041	QC	0.58	51.22	32.45	87.5	140	39.7	27.2	731	4.20	92.9	1.7	20.3	14.6	23.5	0.06	1.26	0.55	11	0.44	0.058
AA068077	Soil	0.18	11.97	9.23	32.9	40	9.3	4.0	72	1.07	3.0	0.8	<0.2	0.5	12.5	0.05	0.27	0.16	9	0.17	0.058
REP AA068077	QC	0.18	12.82	9.24	33.4	40	9.7	4.2	77	1.12	3.2	0.8	<0.2	0.6	12.8	0.03	0.28	0.16	9	0.16	0.061
AA068113	Soil	1.87	14.12	10.90	35.1	44	10.5	5.1	342	1.74	6.0	0.8	0.9	0.3	5.5	0.04	0.32	0.25	20	0.02	0.071
REP AA068113	QC	1.93	13.57	10.77	36.1	48	10.4	5.1	350	1.74	6.1	0.7	0.7	0.3	5.2	0.06	0.33	0.25	20	0.02	0.069
AA068149	Soil	0.39	41.45	30.37	100.3	78	42.2	16.4	565	4.60	30.4	1.1	7.8	8.2	10.5	0.05	0.51	0.50	13	0.18	0.037
REP AA068149	QC	0.36	42.48	30.96	100.3	80	45.2	17.2	558	4.70	30.4	1.1	8.2	10.0	10.8	0.06	0.53	0.49	14	0.18	0.037
AA068185	Soil	0.62	26.52	19.12	55.3	37	28.2	15.1	419	4.57	12.9	2.0	2.9	3.7	7.2	0.04	0.91	0.54	17	0.04	0.110
REP AA068185	QC	0.58	25.73	18.66	56.7	40	29.4	15.1	422	4.58	12.5	1.9	2.2	3.7	6.6	0.08	0.90	0.50	17	0.04	0.106
AA068221	Soil	0.57	25.39	24.33	94.1	56	24.9	12.5	499	3.12	11.3	2.1	<0.2	6.4	25.9	0.08	0.45	0.44	14	0.33	0.064
REP AA068221	QC	0.54	23.38	23.74	93.0	54	24.3	12.1	503	2.99	11.0	2.1	<0.2	6.0	24.5	0.07	0.48	0.43	14	0.32	0.061
AA068242	Soil	0.20	11.46	11.07	19.3	119	13.5	5.3	79	1.25	11.8	1.1	18.5	0.7	840.8	0.07	5.17	0.10	<2	24.22	0.043
REP AA068242	QC	0.23	11.79	10.83	19.6	112	13.3	5.4	80	1.26	11.0	1.1	17.5	0.6	837.7	0.08	5.22	0.11	<2	23.99	0.043
AA068257	Soil	0.66	32.46	32.22	79.6	72	27.5	14.0	733	4.41	25.0	1.2	1.1	3.6	4.5	0.12	0.54	0.57	20	0.03	0.102
REP AA068257	QC	0.57	32.34	32.03	80.9	83	29.4	13.7	729	4.41	25.1	1.3	1.2	3.2	4.4	0.08	0.61	0.55	20	0.03	0.095
AA068301	Soil	0.52	26.68	21.63	74.5	41	28.2	11.2	463	3.32	18.8	1.1	1.1	3.5	14.9	0.12	0.49	0.48	12	0.26	0.094
REP AA068301	QC	0.58	27.74	21.49	78.9	50	28.3	10.6	476	3.35	19.4	1.2	0.4	3.4	15.4	0.10	0.48	0.47	12	0.26	0.095
Reference Materials																					
STD DS10	Standard	15.46	155.60	156.14	377.6	1864	78.3	13.5	878	2.88	46.6	2.9	65.6	8.2	72.0	2.58	10.23	13.68	45	1.08	0.079
STD DS10	Standard	14.58	150.43	152.70	365.8	1888	74.6	13.1	882	2.78	45.5	2.6	67.2	7.2	66.9	2.47	9.52	12.19	44	1.06	0.076
STD DS10	Standard	15.11	148.52	155.94	375.1	1911	75.2	13.2	887	2.82	46.3	2.9	73.4	8.3	73.8	2.56	10.04	13.36	43	1.09	0.079
STD DS10	Standard	16.02	158.32	159.76	376.4	1864	77.9	13.0	903	2.84	46.0	3.0	65.3	8.4	73.9	2.58	10.37	12.97	47	1.11	0.078
STD DS10	Standard	15.26	155.93	157.87	362.3	1971	77.2	13.3	869	2.82	47.3	3.0	89.9	8.2	71.1	2.67	9.20	13.40	43	1.08	0.082
STD DS10	Standard	14.42	147.28	142.15	351.9	1876	70.8	12.5	864	2.78	45.7	2.5	88.0	6.8	66.2	2.57	9.52	11.94	43	1.05	0.075
STD DS10	Standard	15.19	159.31	148.24	372.7	1870	74.8	13.3	871	2.83	45.0	2.7	87.3	7.8	64.7	2.65	9.88	11.97	45	1.09	0.074



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Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
AA068006	Soil	15.9	30.3	0.87	28.1	0.006	2	2.10	0.004	0.03	<0.1	1.5	0.03	0.02	19	0.1	0.07	5.6	0.68	<0.1	0.07
REP AA068006	QC	16.1	31.4	0.86	28.1	0.006	<1	2.16	0.004	0.03	<0.1	1.4	0.03	0.02	19	0.2	0.08	5.6	0.73	<0.1	0.07
AA068041	Soil	34.6	16.3	0.54	37.4	0.001	3	1.33	0.002	0.05	<0.1	4.0	0.04	<0.02	31	0.5	0.11	3.5	1.25	<0.1	0.09
REP AA068041	QC	32.3	16.0	0.53	35.2	0.001	2	1.30	0.002	0.05	<0.1	3.8	0.03	<0.02	33	0.1	0.09	3.3	1.17	<0.1	0.12
AA068077	Soil	10.4	7.3	0.18	39.6	0.008	1	0.96	0.030	0.03	<0.1	0.7	0.05	0.02	17	0.2	<0.02	2.2	0.64	<0.1	<0.02
REP AA068077	QC	12.0	8.1	0.20	43.5	0.012	1	0.97	0.031	0.03	<0.1	0.9	0.04	0.03	24	0.1	<0.02	2.5	0.70	<0.1	<0.02
AA068113	Soil	12.3	13.2	0.22	36.5	0.004	<1	0.93	0.008	0.04	<0.1	0.3	0.07	0.05	24	<0.1	<0.02	4.2	1.31	<0.1	<0.02
REP AA068113	QC	12.1	12.6	0.22	35.8	0.003	2	0.91	0.007	0.04	<0.1	0.3	0.06	0.05	13	0.2	<0.02	4.0	1.27	<0.1	<0.02
AA068149	Soil	20.6	31.3	1.04	21.1	<0.001	<1	2.32	0.003	0.03	<0.1	2.7	0.02	<0.02	8	<0.1	0.05	5.8	0.83	<0.1	0.17
REP AA068149	QC	27.1	32.5	1.06	22.2	0.001	<1	2.33	0.003	0.03	<0.1	3.1	0.02	<0.02	5	<0.1	0.08	5.8	1.00	<0.1	0.20
AA068185	Soil	25.5	24.1	0.53	29.0	0.007	<1	1.67	0.002	0.04	<0.1	1.1	0.06	0.05	30	0.4	0.06	5.8	1.60	<0.1	0.03
REP AA068185	QC	24.4	23.5	0.52	29.6	0.007	1	1.66	0.002	0.04	<0.1	0.8	0.06	0.05	20	<0.1	<0.02	5.7	1.64	<0.1	0.06
AA068221	Soil	14.5	19.9	0.54	45.1	0.002	<1	1.54	0.006	0.04	<0.1	1.6	0.04	0.04	6	<0.1	<0.02	4.2	0.89	<0.1	0.12
REP AA068221	QC	13.9	18.7	0.53	43.1	0.002	<1	1.51	0.006	0.04	<0.1	1.5	0.04	0.04	<5	0.2	<0.02	4.5	0.82	<0.1	0.11
AA068242	Soil	8.8	1.6	0.05	17.8	<0.001	2	0.19	0.002	0.02	<0.1	1.1	<0.02	<0.02	25	<0.1	0.07	0.1	0.16	<0.1	0.07
REP AA068242	QC	8.6	1.6	0.05	16.9	<0.001	2	0.19	0.002	0.02	<0.1	1.2	<0.02	<0.02	17	0.3	0.13	0.3	0.17	<0.1	0.07
AA068257	Soil	16.7	28.6	0.58	30.0	0.007	2	1.86	0.005	0.04	<0.1	1.4	0.05	0.04	25	0.3	0.13	6.2	2.51	<0.1	0.05
REP AA068257	QC	17.1	27.2	0.59	30.0	0.007	<1	1.86	0.005	0.04	0.1	1.2	0.05	0.04	24	0.2	0.09	6.4	2.48	<0.1	0.08
AA068301	Soil	15.4	21.7	0.67	51.3	0.004	<1	1.72	0.008	0.04	<0.1	1.9	0.03	0.06	<5	<0.1	0.05	5.2	1.07	<0.1	0.12
REP AA068301	QC	15.5	21.9	0.67	47.2	0.004	<1	1.73	0.008	0.04	<0.1	1.9	0.03	0.06	7	0.1	0.10	5.3	1.10	<0.1	0.16
Reference Materials																					
STD DS10	Standard	17.8	56.7	0.79	367.8	0.080	7	1.07	0.072	0.34	3.3	3.0	5.18	0.29	259	2.4	4.79	4.4	2.72	<0.1	0.04
STD DS10	Standard	16.9	55.1	0.76	347.4	0.076	6	1.05	0.073	0.34	3.6	3.5	5.21	0.28	268	1.7	4.86	4.4	2.65	<0.1	0.07
STD DS10	Standard	19.2	54.4	0.77	363.5	0.082	6	1.06	0.076	0.35	3.4	2.9	5.22	0.28	284	2.1	4.79	4.3	2.69	<0.1	0.06
STD DS10	Standard	20.6	56.3	0.80	362.3	0.086	9	1.09	0.077	0.35	3.3	2.9	5.25	0.29	290	2.3	5.04	4.6	2.85	<0.1	0.05
STD DS10	Standard	18.7	57.6	0.77	356.1	0.086	5	1.05	0.072	0.34	3.2	3.2	5.40	0.28	254	2.4	5.34	4.2	2.68	<0.1	0.05
STD DS10	Standard	16.9	55.0	0.76	345.8	0.080	7	1.06	0.074	0.34	3.1	3.0	5.30	0.27	284	2.4	4.90	4.4	2.67	<0.1	0.05
STD DS10	Standard	17.2	57.9	0.78	357.9	0.083	9	1.07	0.073	0.34	3.2	2.8	5.09	0.28	289	2.5	4.86	4.3	2.70	<0.1	0.05



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Project: None Given  
Report Date: August 30, 2016

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates														
AA068006	Soil	0.30	3.5	0.2	<0.05	2.5	2.32	29.5	0.02	<1	0.4	61.0	<10	<2
REP AA068006	QC	0.32	3.7	0.2	<0.05	2.8	2.46	30.1	0.03	<1	0.5	58.7	<10	<2
AA068041	Soil	0.04	3.4	0.6	<0.05	9.6	11.98	64.6	0.03	<1	0.7	35.6	<10	<2
REP AA068041	QC	0.03	3.2	0.5	<0.05	8.6	11.74	62.6	0.03	<1	0.4	33.6	<10	<2
AA068077	Soil	0.15	4.2	0.4	<0.05	0.2	3.68	20.2	<0.02	<1	0.3	11.9	<10	<2
REP AA068077	QC	0.16	4.5	0.3	<0.05	0.4	3.84	22.2	<0.02	<1	<0.1	12.6	<10	<2
AA068113	Soil	0.27	7.0	0.5	<0.05	0.3	1.69	23.8	<0.02	1	<0.1	12.6	<10	<2
REP AA068113	QC	0.18	6.6	0.4	<0.05	0.4	1.50	22.9	<0.02	<1	0.2	12.2	<10	<2
AA068149	Soil	0.02	2.3	0.2	<0.05	7.0	5.43	39.2	<0.02	2	0.4	73.5	<10	<2
REP AA068149	QC	0.04	2.6	0.2	<0.05	8.1	5.79	51.3	0.02	<1	0.5	74.6	<10	<2
AA068185	Soil	0.23	7.8	0.4	<0.05	1.4	3.80	48.8	<0.02	1	0.5	32.1	<10	<2
REP AA068185	QC	0.21	7.6	0.3	<0.05	1.3	3.81	47.0	0.03	<1	0.9	33.2	<10	<2
AA068221	Soil	0.15	6.2	0.3	<0.05	4.4	5.01	24.7	<0.02	<1	0.4	43.1	<10	<2
REP AA068221	QC	0.13	6.0	0.2	<0.05	4.2	4.98	24.4	<0.02	<1	0.3	43.3	<10	<2
AA068242	Soil	0.05	1.0	0.2	<0.05	2.0	4.47	16.7	<0.02	1	0.4	0.6	10	<2
REP AA068242	QC	0.04	1.0	<0.1	<0.05	2.2	4.47	16.4	<0.02	<1	0.3	0.4	<10	<2
AA068257	Soil	0.22	5.6	0.3	<0.05	2.5	2.36	29.5	<0.02	<1	0.2	44.5	<10	<2
REP AA068257	QC	0.23	5.6	0.4	<0.05	2.3	2.45	29.8	<0.02	<1	0.2	42.5	<10	<2
AA068301	Soil	0.19	4.0	0.5	<0.05	4.2	3.40	25.9	<0.02	<1	0.4	48.0	<10	<2
REP AA068301	QC	0.16	4.2	0.4	<0.05	4.1	3.61	27.1	0.03	<1	0.2	49.2	<10	<2
Reference Materials														
STD DS10	Standard	1.51	28.8	1.5	<0.05	2.4	7.77	35.1	0.26	49	0.6	21.4	125	202
STD DS10	Standard	1.43	28.3	1.6	<0.05	2.5	7.25	34.1	0.23	46	0.7	20.4	112	189
STD DS10	Standard	1.60	28.8	1.6	<0.05	2.7	8.79	36.9	0.20	50	0.5	20.1	110	189
STD DS10	Standard	1.71	29.3	1.7	<0.05	2.7	9.13	39.0	0.23	49	0.7	19.5	102	188
STD DS10	Standard	1.55	29.4	1.8	<0.05	2.5	8.30	38.3	0.25	55	0.7	19.3	99	204
STD DS10	Standard	1.59	28.9	1.6	<0.05	2.5	8.10	35.0	0.24	46	0.7	19.8	104	192
STD DS10	Standard	1.65	29.0	1.6	<0.05	2.5	8.03	35.4	0.22	52	0.4	19.4	100	187



Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (604) 253-3158

**Client:** Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver BC V6C 3B6 CANADA

**Project:** None Given  
**Report Date:** August 30, 2016

**Page:** 2 of 2

**Part:** 1 of 3

# QUALITY CONTROL REPORT

WHI16000177.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
STD DS10	Standard	14.95	153.73	143.26	359.0	1885	74.9	13.5	876	2.76	45.6	2.5	66.7	7.3	64.1	2.53	9.57	11.76	43	1.06	0.071
STD DS10	Standard	14.82	151.80	150.27	359.1	1844	72.4	13.3	824	2.71	44.4	2.9	72.4	7.8	72.1	2.53	9.92	12.60	44	1.05	0.071
STD DS10	Standard	15.59	154.93	152.77	374.3	1960	78.1	13.5	889	2.76	45.9	2.7	85.5	7.8	66.0	2.66	9.16	11.97	43	1.12	0.078
STD OXC129	Standard	1.38	27.19	6.47	40.0	19	81.9	21.6	452	3.15	0.7	0.7	189.8	1.9	191.4	0.03	0.05	<0.02	54	0.64	0.106
STD OXC129	Standard	1.23	27.72	6.23	42.8	26	78.5	20.6	416	3.07	1.1	0.6	195.4	1.7	179.0	0.02	0.07	<0.02	52	0.58	0.099
STD OXC129	Standard	1.28	28.04	7.13	42.8	11	78.6	20.1	436	3.12	0.4	0.8	208.1	2.1	200.6	0.03	0.04	<0.02	51	0.69	0.107
STD OXC129	Standard	1.24	25.81	6.58	36.9	16	69.9	18.4	391	2.79	0.8	0.7	179.9	1.7	179.4	0.03	0.03	<0.02	51	0.64	0.096
STD OXC129	Standard	1.25	25.87	6.69	37.6	17	75.0	19.1	385	3.04	0.4	0.7	188.0	1.9	188.7	0.02	0.04	<0.02	51	0.66	0.099
STD OXC129	Standard	1.30	26.09	6.24	39.2	14	79.5	20.7	421	3.13	0.7	0.6	212.2	1.8	191.2	0.03	0.04	<0.02	52	0.70	0.101
STD OXC129	Standard	1.39	27.33	6.23	38.7	14	79.7	21.0	410	3.03	0.6	0.7	202.9	1.8	190.4	0.03	0.03	<0.02	53	0.69	0.104
STD OXC129	Standard	1.20	25.57	5.98	37.8	15	74.8	19.7	407	2.93	0.8	0.6	186.2	1.6	172.1	0.03	0.04	<0.02	48	0.62	0.096
STD OXC129	Standard	1.26	28.06	6.60	39.9	17	77.6	19.8	413	2.96	0.7	0.7	193.5	1.8	187.0	0.04	0.04	<0.02	52	0.65	0.103
STD OXC129	Standard	1.37	27.21	6.51	38.1	16	79.9	20.5	424	3.05	0.3	0.7	198.9	2.0	193.7	0.03	0.04	<0.02	51	0.73	0.099
STD DS10 Expected		15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	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	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665	0.102
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.5	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	0.01	<0.001
BLK	Blank	<0.01	0.05	<0.01	<0.1	6	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	0.05	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.4	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	0.1	<2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



# QUALITY CONTROL REPORT

WHI16000177.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
STD DS10	Standard	17.7	55.5	0.77	351.6	0.081	7	1.06	0.073	0.34	3.3	2.9	4.80	0.28	281	2.1	4.74	4.5	2.69	<0.1	0.04
STD DS10	Standard	18.4	53.8	0.76	357.2	0.083	6	1.06	0.072	0.33	3.4	2.8	5.01	0.27	283	2.4	4.66	4.1	2.73	0.1	0.05
STD DS10	Standard	18.3	57.9	0.77	352.3	0.089	7	1.06	0.068	0.33	3.4	2.9	5.27	0.27	317	2.4	5.03	4.7	2.82	<0.1	0.05
STD OXC129	Standard	12.6	53.3	1.56	49.6	0.401	<1	1.55	0.593	0.38	<0.1	1.2	0.03	<0.02	<5	<0.1	<0.02	5.2	0.15	<0.1	0.30
STD OXC129	Standard	11.8	51.3	1.54	45.8	0.384	1	1.55	0.605	0.41	0.1	2.5	0.05	<0.02	<5	<0.1	0.02	5.4	0.17	0.1	0.29
STD OXC129	Standard	13.3	51.4	1.57	51.6	0.414	<1	1.65	0.614	0.39	<0.1	0.9	0.03	<0.02	<5	<0.1	<0.02	5.4	0.16	<0.1	0.22
STD OXC129	Standard	12.4	48.5	1.43	47.1	0.370	3	1.50	0.575	0.35	<0.1	0.9	0.03	<0.02	<5	<0.1	0.02	5.0	0.15	<0.1	0.20
STD OXC129	Standard	12.5	50.0	1.52	49.5	0.392	1	1.54	0.587	0.36	<0.1	0.9	0.03	<0.02	<5	<0.1	<0.02	5.2	0.15	<0.1	0.18
STD OXC129	Standard	12.4	52.7	1.55	53.5	0.394	1	1.62	0.612	0.39	<0.1	0.9	0.03	<0.02	<5	<0.1	<0.02	5.7	0.17	<0.1	0.27
STD OXC129	Standard	12.5	54.5	1.52	51.0	0.406	1	1.58	0.596	0.37	<0.1	0.7	0.04	<0.02	6	<0.1	<0.02	5.7	0.17	<0.1	0.26
STD OXC129	Standard	11.6	50.2	1.48	47.2	0.366	<1	1.46	0.568	0.35	<0.1	0.6	0.03	<0.02	<5	<0.1	<0.02	5.3	0.15	<0.1	0.25
STD OXC129	Standard	12.7	51.9	1.50	48.1	0.395	<1	1.52	0.576	0.35	<0.1	0.9	0.03	<0.02	<5	<0.1	<0.02	5.4	0.16	0.1	0.20
STD OXC129	Standard	12.7	56.5	1.52	51.0	0.421	<1	1.62	0.612	0.38	<0.1	0.7	0.03	<0.02	<5	<0.1	<0.02	5.5	0.17	<0.1	0.23
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0259	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	2.63	0.08	0.06
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6	0.16		0.24
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	8	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



# QUALITY CONTROL REPORT

WHI16000177.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
STD DS10	Standard	1.47	27.4	1.7	<0.05	2.5	7.90	36.1	0.22	58	0.5	19.2	101	187
STD DS10	Standard	1.62	27.7	1.6	<0.05	2.5	7.80	36.7	0.25	44	0.6	18.5	112	199
STD DS10	Standard	1.79	28.9	1.7	<0.05	2.8	8.22	38.3	0.23	52	0.6	19.9	106	197
STD OXC129	Standard	1.44	15.8	0.8	<0.05	22.6	4.42	23.7	<0.02	<1	1.2	2.6	<10	<2
STD OXC129	Standard	1.38	18.3	0.7	<0.05	22.4	4.34	22.1	<0.02	<1	0.9	2.3	<10	<2
STD OXC129	Standard	1.16	15.8	0.8	<0.05	19.3	4.85	24.0	<0.02	<1	0.9	2.1	<10	<2
STD OXC129	Standard	1.37	14.2	0.7	<0.05	16.8	4.43	21.3	<0.02	<1	1.1	2.1	<10	<2
STD OXC129	Standard	1.33	14.4	0.7	<0.05	15.2	4.60	22.7	<0.02	1	0.7	2.3	<10	<2
STD OXC129	Standard	1.67	16.3	0.7	<0.05	22.1	4.83	23.4	<0.02	<1	1.2	2.5	<10	<2
STD OXC129	Standard	1.69	16.0	0.7	<0.05	21.4	4.62	23.3	<0.02	<1	1.1	2.4	<10	<2
STD OXC129	Standard	1.82	15.0	0.7	<0.05	20.2	4.40	21.4	<0.02	1	1.0	2.1	<10	<2
STD OXC129	Standard	1.69	14.6	0.7	<0.05	18.1	4.66	23.0	<0.02	<1	1.1	2.0	<10	<2
STD OXC129	Standard	1.38	15.9	0.7	<0.05	20.3	4.81	24.0	<0.02	<1	1.0	2.3	<10	<2
STD DS10 Expected		1.62	27.7	1.6		2.7	7.77	37	0.23	50	0.63	19.4	110	191
STD OXC129 Expected		1.4		0.7		21	4.7	23.7			0.8	2.22		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA  
PHONE (604) 253-3158

**Client:** **Golden Predator Mining Corp.**  
510 - 580 Hornby Street  
Vancouver BC V6C 3B6 CANADA

Submitted By: M. Burke  
Receiving Lab: Canada-Whitehorse  
Received: August 16, 2016  
Report Date: September 01, 2016  
Page: 1 of 12

# CERTIFICATE OF ANALYSIS

WHI16000178.1

## CLIENT JOB INFORMATION

Project: None Given  
Shipment ID:  
P.O. Number NA-16176  
Number of Samples: 320

## SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
DISP-RJT Dispose of Reject After 90 days

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: Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver BC V6C 3B6  
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
AQ251_EXT	320	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
SHP01	320	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.



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

PHONE (604) 253-3158

Client: **Golden Predator Mining Corp.**

510 - 580 Hornby Street  
Vancouver BC V6C 3B6 CANADA

Project: None Given

Report Date: September 01, 2016

Page: 2 of 12

Part: 1 of 3

# CERTIFICATE OF ANALYSIS

# WHI16000178.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
AA068321	Soil	0.32	20.22	16.24	73.7	55	29.3	9.4	240	3.59	18.5	1.6	3.2	6.7	12.1	0.06	0.34	0.40	14	0.17	0.034
AA068322	Soil	0.95	40.98	36.39	86.9	30	34.1	18.4	471	4.03	54.4	1.6	10.5	8.9	7.3	0.12	0.85	0.88	14	0.09	0.032
AA068323	Soil	1.10	22.73	16.07	102.0	37	34.0	11.8	521	3.65	20.3	6.8	0.8	3.1	12.3	0.12	0.28	0.44	17	0.17	0.118
AA068324	Soil	0.37	18.94	14.69	51.7	33	19.7	8.9	445	3.16	13.3	0.5	<0.2	3.4	4.0	0.03	0.30	0.33	16	0.02	0.083
AA068325	Soil	0.40	32.25	24.02	69.9	23	32.2	16.6	611	3.74	25.8	0.5	<0.2	6.8	5.5	0.05	0.53	0.39	13	0.03	0.052
AA068326	Soil	0.24	31.99	22.65	77.8	16	39.1	19.6	622	4.13	17.6	0.4	0.8	9.8	6.7	0.06	0.34	0.49	14	0.03	0.039
AA068327	Soil	0.21	36.06	16.79	78.4	14	37.8	15.2	440	4.05	14.3	0.4	1.4	8.6	6.0	0.03	0.24	0.42	15	0.03	0.035
AA068328	Soil	0.30	34.77	15.70	73.6	20	34.6	13.7	408	3.82	14.0	0.4	89.6	7.5	5.5	0.04	0.25	0.40	15	0.03	0.038
AA068329	Soil	0.55	32.62	26.71	72.4	16	35.1	17.3	441	3.71	36.6	0.6	1.0	6.2	5.4	0.06	0.71	0.41	18	0.02	0.037
AA068330	Soil	0.47	22.10	18.50	68.3	10	29.4	12.1	444	3.86	25.9	0.5	<0.2	4.9	3.7	0.04	0.51	0.38	19	<0.01	0.046
AA068331	Soil	0.74	21.11	35.13	55.8	22	21.7	9.8	556	3.80	19.1	0.5	<0.2	1.9	4.3	0.07	0.42	0.43	24	0.02	0.063
AA068332	Soil	0.33	32.75	34.98	86.5	170	31.4	16.0	423	3.34	39.5	2.3	7.0	6.3	21.1	0.05	1.14	0.32	10	0.24	0.076
AA068333	Soil	0.55	29.85	26.53	59.3	78	15.4	11.3	526	3.33	13.8	1.2	0.3	2.1	3.2	0.06	0.50	0.42	17	0.02	0.113
AA068334	Soil	0.53	26.02	40.73	63.8	33	22.7	11.5	317	3.89	28.8	1.3	1.6	4.1	4.4	0.09	1.31	0.35	14	0.02	0.067
AA068335	Soil	0.35	27.00	20.98	75.2	30	22.1	11.2	587	4.07	11.3	1.3	<0.2	2.8	6.3	0.11	0.74	0.51	11	0.07	0.085
AA068336	Soil	0.39	38.03	39.65	67.6	174	33.9	14.9	635	4.22	18.8	1.6	3.7	4.1	53.8	0.09	1.36	0.40	11	1.17	0.085
AA068337	Soil	0.21	15.96	21.93	45.0	90	15.2	5.8	131	2.08	9.2	1.4	0.5	2.7	29.2	0.09	0.55	0.24	9	0.38	0.077
AA068338	Soil	0.80	128.36	87.65	133.3	111	44.0	38.7	636	4.84	10.8	3.3	<0.2	10.9	4.3	0.10	0.33	0.52	16	0.07	0.055
AA068339	Soil	0.53	38.17	36.11	80.2	154	28.7	10.4	508	5.06	25.3	1.4	1.3	6.1	2.9	0.11	0.53	0.50	21	0.02	0.058
AA068340	Soil	0.54	35.62	45.72	60.3	180	27.9	21.3	1229	3.36	1385.9	3.3	148.4	10.2	7.3	0.18	1.33	0.38	10	0.13	0.062
AA068341	Soil	0.62	22.64	29.76	66.4	44	21.8	12.8	904	3.44	59.2	0.7	3.8	2.3	3.4	0.12	0.51	0.36	15	0.03	0.075
AA068342	Soil	0.31	29.94	20.68	71.2	81	20.8	9.4	454	2.51	14.0	1.2	<0.2	3.7	11.0	0.05	0.27	0.30	11	0.14	0.069
AA068343	Soil	0.33	25.40	24.62	76.4	114	24.8	9.5	296	3.19	14.1	1.7	1.7	2.8	72.8	0.16	0.90	0.34	11	1.38	0.081
AA068344	Soil	0.28	16.86	13.96	63.1	148	11.5	4.4	367	1.24	7.5	1.5	8.4	0.4	387.5	0.26	2.04	0.14	5	11.16	0.099
AA068345	Soil	0.38	56.17	22.92	69.7	214	46.8	32.4	816	4.75	63.6	2.7	31.1	15.7	18.3	0.06	1.81	0.34	11	0.27	0.034
AA068346	Soil	0.68	15.20	42.94	39.4	246	27.6	24.7	1219	3.96	16.0	2.7	2.0	4.3	28.2	0.25	1.03	0.32	9	2.01	0.121
AA068347	Soil	0.26	33.75	29.68	70.6	156	31.2	13.1	390	3.75	39.7	2.5	10.3	8.2	28.4	0.07	0.83	0.36	11	1.08	0.060
AA068348	Soil	0.27	36.24	30.73	73.1	176	35.0	17.3	489	3.94	37.2	1.5	10.5	9.8	24.7	0.07	0.95	0.42	11	0.63	0.054
AA068349	Soil	0.26	35.54	43.26	78.0	193	36.1	16.3	479	4.18	51.3	1.3	31.9	9.1	20.2	0.12	0.89	0.38	12	0.47	0.051
AA068350	Soil	0.21	33.62	23.78	64.8	119	27.4	11.3	258	3.21	20.3	1.7	5.0	5.7	26.6	0.04	0.74	0.30	11	0.65	0.055



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Client: **Golden Predator Mining Corp.**

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Project: None Given

Report Date: September 01, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000178.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA068321	Soil	14.7	22.9	0.77	27.2	0.002	2	1.78	0.002	0.03	<0.1	1.5	0.03	<0.02	<5	0.2	0.05	4.5	0.41	<0.1	0.06
AA068322	Soil	13.1	21.0	0.73	29.6	0.003	1	1.70	0.002	0.03	<0.1	2.2	0.03	<0.02	11	<0.1	0.17	3.8	0.54	<0.1	0.06
AA068323	Soil	12.1	31.5	0.82	55.8	0.004	2	2.18	0.005	0.03	<0.1	2.1	0.04	0.05	12	0.3	0.09	5.3	0.95	<0.1	0.09
AA068324	Soil	15.7	18.5	0.61	37.6	0.002	<1	1.63	0.005	0.04	<0.1	1.0	0.05	0.03	20	0.2	0.05	4.9	0.90	<0.1	0.11
AA068325	Soil	18.7	21.4	0.95	22.0	0.001	<1	1.98	0.003	0.03	<0.1	1.5	0.03	<0.02	14	0.2	0.09	4.3	0.57	<0.1	0.14
AA068326	Soil	26.7	23.7	1.16	26.9	<0.001	2	2.31	0.002	0.04	<0.1	1.5	0.03	<0.02	<5	<0.1	0.06	5.0	0.57	<0.1	0.08
AA068327	Soil	26.5	24.2	1.13	30.7	0.001	1	2.28	0.002	0.04	<0.1	1.5	0.03	<0.02	7	<0.1	0.04	5.1	0.81	<0.1	0.07
AA068328	Soil	24.5	24.0	1.11	30.6	0.001	<1	2.29	0.002	0.04	<0.1	1.4	0.04	<0.02	11	<0.1	0.06	5.3	0.82	<0.1	0.08
AA068329	Soil	21.1	25.2	0.96	46.3	0.003	<1	2.15	0.003	0.03	<0.1	1.8	0.06	<0.02	15	0.3	0.11	4.9	0.94	<0.1	0.07
AA068330	Soil	18.4	25.3	0.86	26.6	0.005	<1	2.00	0.003	0.03	<0.1	1.4	0.05	<0.02	10	<0.1	0.04	4.9	1.07	<0.1	0.07
AA068331	Soil	14.4	20.7	0.60	35.2	0.005	<1	1.81	0.004	0.03	<0.1	0.9	0.08	0.03	23	0.3	0.09	5.5	0.93	<0.1	0.05
AA068332	Soil	15.8	10.8	0.35	56.7	0.002	<1	1.46	0.007	0.04	<0.1	2.8	0.05	0.03	46	0.3	0.10	3.2	1.07	<0.1	0.15
AA068333	Soil	9.5	15.3	0.30	26.5	0.005	<1	1.38	0.004	0.03	<0.1	0.6	0.07	0.06	25	0.2	0.05	5.0	1.01	<0.1	0.06
AA068334	Soil	16.1	12.1	0.25	31.3	0.003	1	1.42	0.003	0.02	<0.1	0.9	0.07	0.03	15	0.4	<0.02	2.9	0.76	<0.1	0.07
AA068335	Soil	10.9	11.6	0.27	46.4	0.004	<1	1.05	0.003	0.02	<0.1	2.1	0.04	0.04	7	<0.1	0.07	2.7	0.56	<0.1	0.03
AA068336	Soil	31.7	12.3	0.43	45.5	0.002	2	1.24	0.004	0.02	<0.1	4.9	0.03	0.04	60	0.2	0.02	2.6	0.41	<0.1	0.13
AA068337	Soil	15.5	7.9	0.22	72.6	0.005	1	1.18	0.017	0.03	<0.1	2.1	0.05	0.05	22	0.1	<0.02	2.7	0.63	<0.1	0.06
AA068338	Soil	18.3	30.2	0.90	16.9	0.002	<1	2.24	0.006	0.03	<0.1	3.1	0.04	<0.02	7	0.4	0.15	6.1	6.62	<0.1	0.03
AA068339	Soil	6.1	29.1	0.62	16.1	0.005	1	2.02	0.004	0.03	<0.1	1.5	0.05	0.04	32	0.2	0.10	7.6	3.78	<0.1	0.08
AA068340	Soil	21.6	13.9	0.36	40.7	0.002	<1	1.22	0.004	0.03	<0.1	1.9	0.05	0.02	48	0.3	0.11	3.1	1.47	<0.1	<0.02
AA068341	Soil	12.4	19.8	0.48	32.1	0.004	<1	1.47	0.005	0.03	<0.1	0.8	0.04	0.04	24	0.3	0.08	5.1	1.52	<0.1	0.05
AA068342	Soil	7.5	14.6	0.43	34.8	0.005	1	1.32	0.018	0.04	<0.1	1.7	0.03	<0.02	18	<0.1	0.02	3.4	1.57	<0.1	0.05
AA068343	Soil	36.4	9.5	0.35	63.6	0.003	<1	1.09	0.012	0.02	<0.1	3.6	0.05	0.06	44	0.3	0.03	2.4	0.55	<0.1	0.10
AA068344	Soil	13.4	3.0	0.14	58.0	0.003	4	0.52	0.012	0.04	0.1	0.7	0.04	0.10	23	0.6	0.05	0.7	0.35	<0.1	0.04
AA068345	Soil	23.2	20.7	0.56	37.9	<0.001	1	1.68	0.003	0.04	<0.1	6.3	0.06	<0.02	34	<0.1	0.02	3.7	3.65	<0.1	0.08
AA068346	Soil	22.0	13.2	0.49	38.5	0.004	2	1.43	0.002	0.02	<0.1	4.2	0.06	0.07	73	0.4	<0.02	2.6	0.65	<0.1	0.13
AA068347	Soil	13.7	18.1	0.74	48.8	0.001	<1	1.79	0.003	0.03	<0.1	2.7	0.04	0.04	26	0.2	0.04	4.2	0.86	<0.1	0.18
AA068348	Soil	15.0	18.1	0.76	40.6	0.001	2	1.75	0.004	0.04	<0.1	2.9	0.03	<0.02	15	0.1	0.03	4.0	0.81	<0.1	0.18
AA068349	Soil	18.5	20.4	0.84	39.9	0.001	2	1.90	0.003	0.03	<0.1	3.2	0.03	<0.02	14	<0.1	0.06	4.7	0.72	<0.1	0.15
AA068350	Soil	12.2	17.0	0.62	43.2	0.002	<1	1.63	0.010	0.03	<0.1	2.2	0.03	0.04	15	0.2	0.05	3.7	0.71	<0.1	0.17



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# CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA068321	Soil	0.13	3.2	0.2	<0.05	2.4	3.53	27.2	0.03	<1	0.2	52.0	<10	<2
AA068322	Soil	0.05	3.8	0.1	<0.05	2.3	3.09	26.5	0.03	<1	0.2	46.3	<10	<2
AA068323	Soil	0.23	6.5	0.3	<0.05	2.5	9.00	21.5	<0.02	<1	0.3	54.7	<10	<2
AA068324	Soil	0.19	5.3	0.3	<0.05	2.5	1.67	28.2	0.02	<1	<0.1	35.8	<10	<2
AA068325	Soil	0.07	3.4	0.1	<0.05	3.1	2.60	32.7	0.03	<1	0.4	55.3	<10	<2
AA068326	Soil	<0.02	3.9	<0.1	<0.05	2.5	2.22	48.0	<0.02	<1	0.1	66.9	<10	<2
AA068327	Soil	0.03	4.7	0.1	<0.05	3.1	1.88	48.2	<0.02	<1	<0.1	70.3	<10	<2
AA068328	Soil	0.05	4.8	0.1	<0.05	2.9	1.79	44.6	<0.02	<1	0.2	65.8	<10	<2
AA068329	Soil	0.18	4.2	0.3	<0.05	2.1	2.32	39.2	0.03	<1	0.5	55.2	<10	<2
AA068330	Soil	0.25	5.0	0.2	<0.05	1.9	1.96	34.3	0.03	<1	<0.1	53.1	<10	<2
AA068331	Soil	0.30	4.8	0.4	<0.05	1.2	1.63	27.0	0.02	<1	0.1	34.4	<10	<2
AA068332	Soil	0.20	5.2	0.2	<0.05	4.9	11.74	30.1	0.03	<1	0.5	20.9	<10	3
AA068333	Soil	0.15	5.9	0.2	<0.05	1.9	2.33	20.1	<0.02	<1	0.4	20.4	<10	<2
AA068334	Soil	0.23	3.5	0.3	<0.05	2.1	3.19	38.0	0.02	<1	0.3	15.6	<10	<2
AA068335	Soil	0.18	3.9	0.2	<0.05	1.4	7.70	18.7	<0.02	<1	0.6	19.5	<10	<2
AA068336	Soil	0.11	2.5	0.4	<0.05	4.6	20.93	57.5	0.09	<1	0.5	23.1	<10	<2
AA068337	Soil	0.32	4.8	0.3	<0.05	2.7	10.05	26.3	<0.02	<1	0.3	12.4	<10	<2
AA068338	Soil	0.03	3.4	0.2	<0.05	2.1	3.09	32.3	0.03	1	0.8	58.8	<10	<2
AA068339	Soil	0.42	4.5	0.2	<0.05	2.5	1.50	10.9	0.02	<1	0.3	41.7	<10	<2
AA068340	Soil	0.09	3.9	0.5	<0.05	2.7	7.01	44.8	0.02	<1	0.4	28.0	<10	<2
AA068341	Soil	0.17	4.4	0.6	<0.05	2.4	1.92	23.1	<0.02	<1	<0.1	34.8	<10	<2
AA068342	Soil	0.09	4.8	0.5	<0.05	1.3	3.86	13.3	<0.02	<1	0.3	32.9	<10	3
AA068343	Soil	0.22	3.2	0.3	<0.05	3.3	15.91	62.9	0.05	<1	0.5	18.9	<10	<2
AA068344	Soil	0.14	4.3	0.3	<0.05	1.4	6.88	25.6	0.02	<1	0.2	2.9	<10	<2
AA068345	Soil	<0.02	4.4	0.2	<0.05	5.2	20.75	48.2	0.05	<1	0.6	35.9	<10	<2
AA068346	Soil	0.17	3.1	0.4	<0.05	4.0	33.25	75.1	0.16	<1	0.4	28.2	<10	<2
AA068347	Soil	0.11	3.7	0.3	<0.05	7.5	13.65	28.5	0.04	<1	0.5	44.3	<10	<2
AA068348	Soil	0.07	3.1	0.2	<0.05	6.2	12.92	30.5	0.05	<1	0.5	48.3	<10	<2
AA068349	Soil	0.05	2.7	0.1	<0.05	6.3	14.60	36.8	0.05	<1	0.5	51.4	<10	<2
AA068350	Soil	0.16	2.8	0.2	<0.05	5.8	8.90	22.8	0.03	<1	0.4	40.0	<10	<2



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Project: None Given

Report Date: September 01, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000178.1

Method Analyte	Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
AA068351	Soil	0.27	29.91	23.99	79.8	118	30.3	11.3	204	3.58	25.7	1.1	9.1	7.5	25.7	0.10	0.72	0.35	10	0.62	0.058
AA068352	Soil	0.30	37.09	27.68	81.0	101	33.2	14.9	277	3.78	31.5	1.3	8.1	8.4	19.4	0.07	1.00	0.37	11	0.53	0.050
AA068353	Soil	0.28	30.38	25.03	76.1	184	30.8	13.8	259	3.70	32.9	2.7	5.6	9.3	16.7	0.05	0.61	0.34	10	0.31	0.040
AA068354	Soil	0.65	29.39	35.18	48.0	68	16.4	10.4	861	3.75	26.5	1.1	1.6	1.5	4.6	0.04	0.52	0.50	22	0.04	0.177
AA068355	Soil	0.48	24.48	20.90	80.5	56	30.2	11.3	499	4.75	22.8	0.9	0.6	3.8	2.6	0.07	0.42	0.43	19	0.02	0.087
AA068356	Soil	0.35	29.89	26.09	87.7	26	35.4	14.0	673	4.65	20.1	1.0	<0.2	6.2	2.1	0.11	0.46	0.43	16	0.02	0.056
AA068357	Soil	0.40	43.01	34.02	79.7	130	36.7	20.1	573	3.82	11.7	2.6	3.0	7.8	144.2	0.11	1.26	0.42	11	9.01	0.091
AA068358	Soil	0.60	64.67	44.87	117.3	162	51.7	32.0	915	4.98	15.6	2.5	3.3	14.0	121.7	0.12	1.21	0.70	11	5.40	0.064
AA068359	Soil	0.61	56.36	37.27	100.3	137	45.5	28.7	422	4.42	17.9	2.6	1.7	13.1	228.9	0.09	0.86	0.58	9	8.63	0.065
AA068360	Soil	0.55	60.97	44.55	119.3	171	49.0	32.1	698	4.99	25.3	2.2	3.6	10.1	34.6	0.13	1.08	0.66	15	0.68	0.063
AA068361	Soil	0.38	58.20	45.41	111.9	98	46.3	33.1	778	4.46	26.7	1.5	3.7	15.3	22.8	0.10	0.88	0.62	12	0.31	0.049
AA068362	Soil	0.61	58.64	46.67	119.3	144	49.0	29.7	838	4.79	27.4	1.8	7.2	14.6	29.8	0.13	1.09	0.64	13	0.44	0.062
AA068363	Soil	0.35	47.27	48.14	98.9	69	42.4	25.0	791	4.26	13.9	1.4	1.9	14.9	20.5	0.07	0.48	0.60	15	0.25	0.041
AA068364	Soil	0.30	43.80	44.19	95.2	58	39.4	22.8	728	4.25	12.7	1.6	1.9	13.9	12.1	0.05	0.45	0.58	15	0.15	0.033
AA068365	Soil	0.35	57.68	38.81	98.3	115	40.2	16.7	412	4.21	15.0	2.8	2.2	13.5	18.0	0.05	0.48	0.72	14	0.23	0.043
AA068366	Soil	0.41	53.32	43.37	104.7	141	35.1	16.8	459	3.95	15.7	3.6	1.9	10.2	30.4	0.09	0.66	0.65	13	0.47	0.061
AA068367	Soil	0.40	29.75	19.25	82.2	84	35.8	13.0	302	3.66	20.7	2.1	7.5	9.6	8.1	0.09	0.40	0.45	14	0.07	0.035
AA068368	Soil	0.38	25.49	23.34	93.8	121	26.4	11.3	258	3.28	20.1	3.8	4.3	7.6	40.2	0.10	0.48	0.45	11	0.47	0.062
AA068369	Soil	0.51	39.98	33.54	99.0	115	38.8	17.1	548	3.96	37.1	3.4	7.3	8.5	17.0	0.15	0.59	0.54	13	0.23	0.052
AA068370	Soil	0.43	12.32	8.39	45.9	82	15.0	5.5	322	1.72	9.5	0.5	1.5	0.5	9.4	0.07	0.18	0.23	16	0.11	0.081
AA068371	Soil	0.89	12.73	12.97	45.3	21	17.7	6.9	336	2.38	12.8	0.7	0.7	1.0	7.3	0.05	0.35	0.39	24	0.03	0.069
AA068372	Soil	1.27	43.17	21.20	68.9	43	32.7	14.9	671	3.24	43.4	0.9	5.3	5.2	8.7	0.25	1.25	0.39	13	0.09	0.056
AA068373	Soil	0.67	30.05	24.47	78.8	27	33.7	15.9	591	4.22	37.5	0.8	2.9	5.9	4.3	0.09	0.84	0.47	15	0.01	0.057
AA068374	Soil	0.43	24.68	20.90	73.9	20	34.5	12.4	338	3.76	36.4	0.8	3.2	4.8	10.8	0.03	0.52	0.39	18	0.09	0.038
AA068375	Soil	0.40	18.69	11.58	78.1	25	32.7	9.4	324	3.68	26.1	0.8	3.6	4.1	9.8	0.04	0.37	0.33	18	0.08	0.048
AA068376	Soil	1.26	21.12	25.51	66.6	38	21.7	11.3	784	4.70	25.9	1.2	3.1	1.3	8.1	0.09	0.68	0.53	39	0.03	0.070
AA068377	Soil	0.49	29.99	29.46	89.6	93	26.9	13.4	383	3.56	69.0	2.0	9.0	5.7	6.2	0.09	0.85	0.44	12	0.03	0.074
AA068378	Soil	0.48	30.65	28.68	87.4	91	27.0	13.8	383	3.64	71.1	2.0	17.9	5.9	6.6	0.09	0.87	0.44	13	0.03	0.071
AA068379	Soil	0.34	22.07	23.26	56.0	128	20.0	8.2	316	2.34	35.7	1.0	5.0	2.7	4.5	0.06	0.52	0.29	10	0.03	0.044
AA068380	Soil	0.61	27.44	22.45	70.8	74	18.9	10.2	665	3.89	47.5	1.2	4.3	2.7	5.3	0.06	0.93	0.41	17	0.02	0.081



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Project: None Given

Report Date: September 01, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000178.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA068351	Soil	13.6	17.6	0.61	28.6	0.001	<1	1.53	0.002	0.03	<0.1	2.2	0.02	0.03	27	0.3	<0.02	3.7	0.47	<0.1	0.17
AA068352	Soil	14.1	18.0	0.66	27.6	0.002	<1	1.64	0.003	0.03	<0.1	2.5	0.03	0.03	11	<0.1	0.03	4.0	0.74	<0.1	0.19
AA068353	Soil	10.8	21.9	0.66	13.6	<0.001	<1	1.72	0.002	0.03	<0.1	2.3	0.02	0.04	17	0.5	<0.02	4.2	1.44	<0.1	0.19
AA068354	Soil	9.9	18.7	0.31	28.8	0.003	<1	1.17	0.005	0.04	<0.1	0.4	0.04	0.05	34	0.1	0.07	5.8	1.80	<0.1	0.08
AA068355	Soil	11.8	27.2	0.76	19.6	0.004	1	2.04	0.002	0.02	<0.1	1.4	0.03	0.03	25	0.2	0.03	6.6	1.17	<0.1	0.11
AA068356	Soil	14.3	28.0	0.83	14.1	0.002	<1	2.07	0.003	0.02	<0.1	1.5	<0.02	<0.02	25	0.2	0.09	6.1	1.19	<0.1	0.14
AA068357	Soil	18.1	17.5	0.58	27.3	0.001	2	1.43	0.004	0.03	<0.1	3.9	0.03	0.03	49	0.5	0.06	4.1	0.56	<0.1	0.14
AA068358	Soil	20.8	20.5	0.57	31.1	0.001	2	1.42	0.005	0.04	0.2	4.4	0.05	0.03	41	0.2	0.08	4.0	0.86	<0.1	0.16
AA068359	Soil	17.3	14.0	0.51	16.5	<0.001	<1	1.09	0.003	0.03	<0.1	4.2	0.03	0.03	43	0.2	0.07	2.8	0.68	<0.1	0.15
AA068360	Soil	26.1	20.0	0.73	38.3	0.001	1	1.68	0.003	0.04	<0.1	4.1	0.04	0.03	22	0.1	0.09	4.3	0.72	<0.1	0.16
AA068361	Soil	15.4	21.3	0.75	28.2	0.002	<1	1.74	0.002	0.04	<0.1	2.5	0.03	<0.02	23	0.1	0.04	4.5	0.57	<0.1	0.12
AA068362	Soil	26.3	21.5	0.75	33.6	0.001	<1	1.72	0.003	0.04	<0.1	3.9	0.04	<0.02	27	<0.1	0.05	4.2	0.58	<0.1	0.13
AA068363	Soil	18.5	27.2	0.87	32.0	0.002	1	2.06	0.003	0.04	<0.1	2.0	0.02	<0.02	6	<0.1	0.08	5.8	0.40	<0.1	0.15
AA068364	Soil	18.6	27.6	0.88	24.9	0.001	<1	2.06	0.002	0.03	<0.1	1.8	0.02	<0.02	6	<0.1	0.07	6.0	0.41	<0.1	0.08
AA068365	Soil	19.5	26.6	0.79	52.5	0.001	<1	2.15	0.004	0.04	<0.1	2.9	0.04	<0.02	25	<0.1	0.08	6.1	0.94	<0.1	0.18
AA068366	Soil	14.7	23.4	0.70	49.9	0.001	<1	1.89	0.005	0.04	<0.1	2.6	0.03	0.04	24	0.2	0.06	5.1	0.71	<0.1	0.24
AA068367	Soil	16.6	24.0	0.73	28.2	0.002	<1	1.80	0.002	0.04	<0.1	1.9	0.03	<0.02	14	<0.1	0.07	4.6	0.40	<0.1	0.09
AA068368	Soil	11.9	21.3	0.59	39.1	0.002	<1	1.71	0.005	0.05	<0.1	2.0	0.04	0.05	17	0.8	0.03	4.4	0.61	<0.1	0.12
AA068369	Soil	15.6	23.7	0.79	29.8	0.002	<1	1.82	0.003	0.05	<0.1	2.6	0.03	0.03	14	0.4	0.03	4.6	0.67	<0.1	0.09
AA068370	Soil	10.8	14.3	0.29	47.9	0.006	1	1.36	0.013	0.04	<0.1	0.6	0.06	0.03	21	0.2	<0.02	3.9	0.81	<0.1	<0.02
AA068371	Soil	15.9	24.9	0.37	59.9	0.005	1	1.56	0.004	0.04	<0.1	0.9	0.11	0.03	18	0.1	<0.02	5.8	1.16	<0.1	<0.02
AA068372	Soil	22.2	14.9	0.49	37.2	0.003	<1	1.20	0.002	0.03	<0.1	3.7	0.04	<0.02	25	<0.1	0.07	2.8	0.46	<0.1	<0.02
AA068373	Soil	19.6	26.3	0.82	32.7	0.003	<1	2.08	0.002	0.04	<0.1	1.6	0.05	0.03	20	0.2	0.06	4.8	0.85	<0.1	0.07
AA068374	Soil	20.7	25.6	0.78	48.3	0.004	<1	2.13	0.005	0.04	<0.1	1.5	0.07	<0.02	13	<0.1	0.04	5.6	0.99	<0.1	0.05
AA068375	Soil	19.7	26.1	0.77	39.5	0.006	<1	2.01	0.003	0.04	<0.1	1.2	0.04	<0.02	13	0.1	<0.02	5.5	1.21	<0.1	0.04
AA068376	Soil	18.2	29.9	0.43	47.6	0.020	2	1.95	0.003	0.05	0.1	1.1	0.11	0.04	27	0.5	0.03	7.4	1.34	<0.1	<0.02
AA068377	Soil	11.7	17.4	0.45	39.3	0.002	1	1.65	0.003	0.03	<0.1	1.0	0.05	0.03	17	0.1	0.03	4.4	0.96	<0.1	0.10
AA068378	Soil	12.3	18.5	0.49	38.0	0.002	<1	1.64	0.004	0.03	<0.1	1.2	0.05	0.03	19	0.2	0.04	4.5	1.00	<0.1	0.09
AA068379	Soil	10.7	11.8	0.33	22.5	0.006	<1	1.26	0.010	0.03	<0.1	1.0	0.04	0.03	17	0.3	<0.02	3.2	0.45	<0.1	0.04
AA068380	Soil	11.6	17.4	0.29	39.9	0.005	<1	1.49	0.003	0.04	<0.1	0.9	0.07	0.05	29	0.5	0.04	4.9	0.91	<0.1	0.04



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Project: None Given

Report Date: September 01, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA068351	Soil	0.08	2.3	0.1	<0.05	6.4	6.50	25.8	0.03	<1	0.6	39.0	<10	<2
AA068352	Soil	0.09	2.5	0.1	<0.05	7.4	6.99	27.2	0.02	<1	0.4	42.4	<10	<2
AA068353	Soil	0.06	2.3	0.2	<0.05	7.1	7.34	21.1	0.02	<1	0.2	46.0	<10	<2
AA068354	Soil	0.20	5.4	0.2	<0.05	1.8	2.32	19.2	0.02	<1	0.2	22.4	<10	<2
AA068355	Soil	0.24	3.8	0.1	<0.05	2.4	1.56	21.1	0.02	<1	0.3	54.2	<10	<2
AA068356	Soil	0.06	3.0	0.1	<0.05	3.0	1.57	25.5	0.03	2	0.2	59.6	<10	<2
AA068357	Soil	0.06	1.9	0.6	<0.05	7.1	10.61	31.7	0.04	<1	0.5	39.5	<10	<2
AA068358	Soil	<0.02	2.3	0.8	<0.05	9.8	12.05	35.6	0.05	<1	1.0	38.5	12	<2
AA068359	Soil	0.02	1.5	0.4	<0.05	11.1	10.44	29.9	0.04	<1	0.1	29.6	<10	2
AA068360	Soil	0.08	2.5	0.3	<0.05	6.2	15.73	46.9	0.04	<1	0.4	44.3	<10	<2
AA068361	Soil	0.05	1.9	0.2	<0.05	7.5	7.55	28.3	<0.02	<1	0.4	56.2	<10	<2
AA068362	Soil	0.04	2.5	0.3	<0.05	6.8	12.45	44.6	0.04	<1	0.5	50.3	<10	<2
AA068363	Soil	<0.02	1.9	0.1	<0.05	6.6	5.53	32.6	0.02	<1	0.3	69.6	<10	<2
AA068364	Soil	<0.02	1.8	<0.1	<0.05	5.3	5.54	32.9	0.03	<1	0.4	69.9	<10	<2
AA068365	Soil	0.08	4.5	0.3	<0.05	6.7	8.50	31.1	0.04	<1	0.5	65.8	<10	<2
AA068366	Soil	0.09	3.7	0.3	<0.05	8.8	8.90	23.9	0.02	<1	0.5	54.1	<10	<2
AA068367	Soil	0.12	3.7	0.2	<0.05	3.2	5.65	30.6	<0.02	<1	0.4	56.6	<10	<2
AA068368	Soil	0.20	5.5	0.1	<0.05	5.0	5.60	21.5	0.03	<1	0.3	42.9	<10	<2
AA068369	Soil	0.09	3.8	0.2	<0.05	3.4	6.24	28.8	0.03	<1	0.2	52.2	<10	<2
AA068370	Soil	0.16	6.1	0.3	<0.05	0.6	3.46	21.2	<0.02	<1	0.3	20.9	<10	<2
AA068371	Soil	0.32	6.0	0.5	<0.05	0.6	2.29	29.7	0.04	<1	0.3	25.6	<10	<2
AA068372	Soil	0.15	3.0	0.2	<0.05	1.5	12.10	39.4	0.02	<1	0.7	27.5	<10	<2
AA068373	Soil	0.20	4.5	0.2	<0.05	2.7	2.71	36.2	0.03	<1	0.2	50.2	<10	3
AA068374	Soil	0.21	5.5	0.3	<0.05	1.6	2.60	37.0	<0.02	<1	0.3	51.0	<10	2
AA068375	Soil	0.26	6.9	0.3	<0.05	1.4	2.44	34.8	0.02	1	0.2	50.0	<10	<2
AA068376	Soil	0.81	7.1	1.0	<0.05	0.4	3.13	35.5	0.03	<1	0.3	27.0	<10	2
AA068377	Soil	0.15	4.9	0.1	<0.05	3.8	3.61	22.9	<0.02	<1	0.1	35.9	<10	<2
AA068378	Soil	0.23	5.2	0.2	<0.05	3.3	3.81	23.4	<0.02	<1	0.5	37.3	<10	<2
AA068379	Soil	0.13	3.1	<0.1	<0.05	2.3	2.86	20.7	<0.02	<1	0.3	23.4	<10	<2
AA068380	Soil	0.28	6.8	0.4	<0.05	1.4	3.16	22.6	<0.02	<1	0.2	20.1	<10	<2



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Project: None Given

Report Date: September 01, 2016

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# CERTIFICATE OF ANALYSIS

## WHI16000178.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	%
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
AA068381	Soil	0.30	31.01	32.31	67.8	78	28.7	13.8	378	2.93	52.9	2.1	4.8	6.7	19.1	0.06	0.78	0.38	9	0.19	0.076
AA068382	Soil	0.43	39.93	37.28	85.3	166	34.6	18.7	625	3.45	42.5	2.2	8.5	9.4	25.0	0.16	0.95	0.42	11	0.26	0.076
AA068383	Soil	0.48	30.27	17.07	52.1	95	17.5	12.1	2305	3.74	23.0	1.0	2.0	2.1	3.3	0.08	0.39	0.39	17	0.01	0.116
AA068384	Soil	0.66	28.70	18.66	62.9	29	23.6	10.7	419	4.52	18.7	0.9	1.6	7.1	3.0	0.11	0.50	0.48	20	0.02	0.036
AA068385	Soil	0.54	43.58	19.42	110.7	32	42.4	16.0	567	5.89	24.5	1.0	2.1	6.2	2.9	0.12	0.57	0.65	19	0.03	0.046
AA068386	Soil	0.78	35.19	51.01	89.2	58	30.1	18.6	1136	4.94	28.1	1.4	4.0	3.7	5.5	0.13	0.51	0.56	20	0.06	0.105
AA068387	Soil	0.24	37.22	17.77	70.5	54	40.6	20.0	611	3.49	14.3	1.2	5.1	7.0	130.0	0.06	0.60	0.35	9	6.31	0.038
AA068388	Soil	0.42	31.45	25.43	76.1	167	38.0	14.6	269	3.25	10.7	2.7	1.5	1.9	284.4	0.23	0.37	0.37	8	7.68	0.138
AA068389	Soil	0.35	17.27	14.34	29.5	66	12.4	6.5	296	1.90	11.5	4.3	2.8	1.5	45.3	0.04	0.71	0.28	14	0.62	0.096
AA068390	Soil	0.33	24.16	10.49	26.6	43	24.3	9.6	141	2.79	16.0	1.2	2.1	10.2	15.9	0.02	1.34	0.18	5	0.21	0.026
AA068391	Soil	0.24	16.41	17.24	50.9	119	15.9	5.7	261	1.87	10.5	2.0	2.1	0.7	398.1	0.31	1.38	0.18	6	16.59	0.137
AA068392	Soil	0.23	48.26	15.31	86.3	36	56.2	24.1	160	4.17	7.5	1.7	1.4	16.2	17.5	0.07	0.49	0.38	10	0.20	0.055
AA068393	Soil	0.54	18.15	24.76	55.5	13	21.4	9.7	210	3.42	18.4	0.9	4.1	4.9	6.3	0.11	1.31	0.31	13	0.08	0.029
AA068394	Soil	0.36	18.28	31.42	59.5	196	31.9	19.6	679	4.10	34.4	1.6	7.5	17.4	23.4	0.14	1.13	0.26	12	0.35	0.060
AA068395	Soil	0.28	17.00	18.07	54.0	105	25.8	11.1	757	3.70	14.6	1.7	1.8	6.1	152.1	0.16	0.77	0.28	14	6.99	0.102
AA068396	Soil	0.28	30.84	22.85	52.8	140	43.2	22.3	484	4.59	17.5	1.3	2.6	14.3	22.4	0.06	0.85	0.36	12	0.48	0.070
AA068397	Soil	0.36	38.78	29.85	74.8	132	39.0	22.3	502	3.96	25.3	1.6	7.2	14.8	57.4	0.05	1.34	0.49	10	1.62	0.058
AA068398	Soil	0.53	43.42	39.87	75.6	203	36.3	21.0	482	4.13	27.9	1.9	9.9	9.2	43.4	0.07	1.79	0.51	11	0.81	0.068
AA068399	Soil	0.44	45.63	35.60	77.5	150	41.2	27.6	554	4.16	37.2	1.7	12.0	13.9	81.1	0.07	1.81	0.55	9	2.25	0.067
AA068400	Soil	0.43	32.66	29.95	48.8	148	34.8	16.9	309	3.54	21.0	2.0	4.9	9.0	268.0	0.05	1.76	0.40	7	8.24	0.074
AA068401	Soil	0.41	48.21	38.74	99.6	167	43.6	24.3	577	4.23	29.1	1.7	11.0	13.5	36.2	0.10	1.67	0.53	10	0.54	0.063
AA068402	Soil	0.49	51.96	41.97	100.5	173	43.7	26.8	616	4.09	27.7	1.9	6.3	15.9	77.8	0.07	1.77	0.58	9	1.75	0.067
AA068403	Soil	0.39	41.39	33.42	90.0	143	39.4	18.5	404	3.86	24.7	1.9	7.7	11.4	91.1	0.06	1.60	0.47	8	2.12	0.075
AA068404	Soil	0.39	37.98	27.80	83.1	125	36.0	19.4	427	3.56	15.4	1.7	3.1	14.5	148.3	0.08	1.21	0.41	9	4.79	0.052
AA068405	Soil	0.35	42.36	37.67	104.3	115	40.5	21.7	428	3.87	12.3	1.6	2.3	17.1	36.3	0.07	0.84	0.46	10	0.56	0.056
AA068406	Soil	0.39	40.35	31.84	81.3	104	36.0	18.5	379	3.58	34.1	1.9	5.6	13.5	171.3	0.06	1.39	0.42	8	4.50	0.058
AA068407	Soil	0.43	37.63	26.91	74.4	107	39.0	18.3	333	3.57	17.3	2.2	3.1	11.0	303.6	0.08	1.39	0.39	6	10.04	0.060
AA068408	Soil	0.64	43.67	35.90	78.2	199	43.4	18.9	395	4.05	24.2	2.8	7.9	12.9	187.4	0.12	3.14	0.45	8	4.41	0.092
AA068409	Soil	0.36	27.34	91.37	81.1	218	32.9	20.3	493	2.86	24.1	2.1	26.5	12.9	24.1	0.16	2.22	0.30	6	0.25	0.043
AA068410	Soil	0.50	38.94	29.84	91.4	161	33.7	12.9	527	3.26	18.3	2.1	1.9	1.7	65.0	0.28	1.58	0.36	7	2.33	0.123



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Project: None Given

Report Date: September 01, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000178.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA068381	Soil	13.7	11.9	0.31	31.7	0.003	<1	1.21	0.007	0.04	<0.1	1.6	0.04	0.03	16	0.3	<0.02	2.7	0.72	<0.1	0.12
AA068382	Soil	18.4	14.0	0.41	42.4	0.005	<1	1.41	0.008	0.05	<0.1	3.0	0.04	0.03	49	0.1	0.04	3.2	0.57	<0.1	0.12
AA068383	Soil	10.9	23.9	0.34	57.8	0.003	<1	1.27	0.004	0.03	<0.1	1.0	0.06	0.07	42	0.3	0.05	6.5	2.19	<0.1	0.06
AA068384	Soil	20.8	22.0	0.46	18.3	0.002	<1	1.53	0.003	0.03	<0.1	1.3	0.04	<0.02	23	<0.1	0.09	7.1	2.17	<0.1	0.05
AA068385	Soil	15.9	36.4	0.94	20.5	0.003	<1	2.36	0.004	0.03	<0.1	2.0	0.03	0.03	12	<0.1	0.07	7.4	1.92	<0.1	0.06
AA068386	Soil	10.2	30.7	0.67	32.6	0.004	<1	1.98	0.005	0.05	<0.1	1.4	0.04	0.05	20	<0.1	0.07	6.8	3.05	<0.1	0.08
AA068387	Soil	11.7	16.6	0.81	33.2	0.001	<1	1.45	0.002	0.03	<0.1	3.6	0.02	<0.02	25	0.1	0.05	3.5	0.48	<0.1	0.15
AA068388	Soil	38.8	9.5	0.38	45.8	0.001	<1	0.85	0.006	0.03	<0.1	2.9	0.04	0.08	62	0.6	0.04	1.7	0.49	<0.1	0.11
AA068389	Soil	12.3	8.5	0.18	39.9	0.007	<1	1.04	0.016	0.04	<0.1	1.3	0.06	0.06	25	0.4	0.02	3.1	0.93	<0.1	0.04
AA068390	Soil	10.6	6.7	0.12	22.3	<0.001	<1	0.81	0.002	0.02	<0.1	1.0	0.03	<0.02	7	<0.1	<0.02	1.1	1.49	<0.1	0.02
AA068391	Soil	14.4	5.6	0.16	36.3	0.002	1	0.59	0.003	0.03	0.1	1.7	0.04	0.07	56	0.3	0.05	0.9	0.19	<0.1	<0.02
AA068392	Soil	47.8	24.3	1.04	13.4	0.001	1	2.23	0.001	0.03	<0.1	1.5	<0.02	<0.02	<5	<0.1	0.02	4.7	1.37	<0.1	0.04
AA068393	Soil	21.0	10.5	0.32	22.2	0.005	<1	1.14	0.001	0.02	<0.1	1.2	0.04	<0.02	9	<0.1	0.05	3.0	0.65	<0.1	<0.02
AA068394	Soil	19.5	19.5	0.94	54.7	0.003	<1	2.09	0.011	0.05	<0.1	3.3	0.05	<0.02	27	<0.1	0.03	4.2	1.36	<0.1	0.08
AA068395	Soil	21.8	15.8	0.84	38.6	0.006	2	1.55	0.007	0.03	<0.1	5.1	0.03	0.03	35	<0.1	0.03	3.1	0.31	<0.1	0.13
AA068396	Soil	25.6	22.7	1.05	28.1	0.002	<1	1.99	0.001	0.03	<0.1	3.5	0.03	<0.02	26	<0.1	0.03	4.5	0.57	<0.1	0.15
AA068397	Soil	18.4	17.0	0.70	31.8	0.002	<1	1.54	0.004	0.06	<0.1	2.7	0.03	<0.02	11	<0.1	0.06	3.6	0.65	<0.1	0.14
AA068398	Soil	21.0	17.2	0.70	42.7	0.002	1	1.58	0.006	0.04	<0.1	4.2	0.04	0.03	35	0.4	0.05	3.5	0.76	<0.1	0.17
AA068399	Soil	21.5	16.6	0.70	26.9	0.002	<1	1.42	0.003	0.05	<0.1	3.4	0.02	<0.02	19	<0.1	0.06	3.3	0.70	<0.1	0.13
AA068400	Soil	16.6	10.5	0.47	23.6	0.001	<1	0.96	0.003	0.03	<0.1	4.4	0.03	<0.02	28	0.4	0.06	2.0	0.43	<0.1	0.10
AA068401	Soil	24.0	18.4	0.65	41.4	0.002	<1	1.62	0.004	0.05	0.1	3.5	0.04	<0.02	20	<0.1	0.05	3.9	0.69	<0.1	0.15
AA068402	Soil	22.9	16.5	0.57	47.2	0.001	<1	1.45	0.004	0.07	<0.1	3.4	0.04	<0.02	34	0.2	0.06	3.2	0.95	<0.1	0.16
AA068403	Soil	23.2	12.7	0.48	40.4	0.002	1	1.21	0.005	0.04	<0.1	3.9	0.03	<0.02	29	0.2	0.07	2.8	0.62	<0.1	0.12
AA068404	Soil	19.8	15.5	0.57	34.0	0.001	<1	1.35	0.004	0.08	<0.1	3.2	0.03	<0.02	18	<0.1	0.04	3.0	0.77	<0.1	0.15
AA068405	Soil	17.2	18.8	0.64	32.8	0.002	<1	1.60	0.003	0.05	<0.1	2.8	0.03	<0.02	12	0.3	0.03	3.9	0.77	<0.1	0.17
AA068406	Soil	22.4	10.9	0.43	29.6	0.001	<1	0.99	0.003	0.04	<0.1	3.0	0.03	<0.02	11	0.2	0.06	2.2	0.75	<0.1	0.15
AA068407	Soil	17.2	9.6	0.48	21.8	0.002	<1	0.93	0.003	0.03	<0.1	3.9	0.02	<0.02	16	<0.1	0.06	2.1	0.49	<0.1	0.19
AA068408	Soil	31.1	9.4	0.37	30.2	0.002	1	0.82	0.005	0.04	<0.1	4.9	0.04	0.04	52	0.4	0.06	1.7	0.70	<0.1	0.11
AA068409	Soil	20.7	8.1	0.31	36.0	0.002	<1	0.91	0.004	0.03	<0.1	2.4	0.04	<0.02	31	<0.1	0.06	1.8	0.56	<0.1	0.08
AA068410	Soil	18.1	7.8	0.23	54.2	0.002	2	0.78	0.004	0.04	<0.1	1.7	0.05	0.12	62	0.2	0.08	1.5	0.30	<0.1	0.05



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Project: None Given

Report Date: September 01, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA068381	Soil	0.12	4.5	0.1	<0.05	4.6	6.71	27.1	0.02	<1	0.2	20.9	<10	<2
AA068382	Soil	0.17	3.8	0.3	<0.05	4.7	11.16	34.2	0.03	<1	0.5	24.8	<10	<2
AA068383	Soil	0.19	4.5	0.2	<0.05	2.3	1.59	18.3	<0.02	<1	0.1	24.4	<10	<2
AA068384	Soil	0.19	4.4	0.2	<0.05	2.0	1.92	34.7	<0.02	<1	0.2	39.5	<10	<2
AA068385	Soil	0.17	4.6	0.1	<0.05	2.5	1.95	27.4	<0.02	<1	0.3	68.9	<10	<2
AA068386	Soil	0.19	6.6	0.5	<0.05	2.9	2.06	18.3	<0.02	<1	0.4	51.6	<10	<2
AA068387	Soil	0.04	1.9	<0.1	<0.05	9.1	12.19	20.9	0.02	<1	0.2	57.3	<10	<2
AA068388	Soil	0.07	3.2	0.3	<0.05	5.2	14.20	62.1	0.04	<1	0.7	20.1	<10	<2
AA068389	Soil	0.46	5.1	0.4	<0.05	2.0	10.69	21.5	0.03	<1	0.4	10.0	<10	<2
AA068390	Soil	0.05	2.9	0.7	<0.05	2.0	3.48	21.0	<0.02	<1	0.3	4.9	<10	<2
AA068391	Soil	0.21	3.0	0.8	<0.05	1.2	9.85	28.0	<0.02	<1	0.5	3.5	<10	<2
AA068392	Soil	<0.02	1.7	0.3	<0.05	2.1	7.04	91.7	<0.02	<1	0.6	65.8	<10	<2
AA068393	Soil	0.33	3.6	0.3	<0.05	1.1	3.48	42.6	0.03	<1	0.2	23.0	<10	<2
AA068394	Soil	0.07	3.6	0.9	<0.05	6.6	12.91	38.9	0.04	<1	0.7	49.4	<10	<2
AA068395	Soil	0.18	2.4	0.4	<0.05	6.0	34.27	41.9	0.07	<1	0.4	42.4	<10	<2
AA068396	Soil	0.06	2.2	0.2	<0.05	7.0	19.14	52.4	0.05	<1	0.4	57.2	<10	<2
AA068397	Soil	0.05	2.5	0.3	<0.05	10.4	9.48	35.3	0.03	<1	0.4	43.8	<10	<2
AA068398	Soil	0.12	3.2	0.5	<0.05	7.8	18.35	40.0	0.06	<1	0.6	43.9	<10	<2
AA068399	Soil	0.04	2.1	0.2	<0.05	9.8	12.41	41.4	0.02	<1	0.2	45.2	<10	<2
AA068400	Soil	0.04	1.7	0.4	<0.05	6.2	11.55	30.2	<0.02	<1	0.4	26.6	<10	<2
AA068401	Soil	0.07	2.7	0.2	<0.05	7.9	11.38	44.2	0.03	<1	0.8	47.0	<10	<2
AA068402	Soil	0.03	3.2	0.2	<0.05	10.6	10.30	40.7	<0.02	<1	0.4	39.3	<10	<2
AA068403	Soil	0.07	2.5	0.1	<0.05	7.5	12.67	40.0	0.03	<1	0.2	31.7	<10	<2
AA068404	Soil	0.02	3.0	0.2	<0.05	12.4	8.91	35.6	0.03	<1	0.5	36.4	<10	<2
AA068405	Soil	0.02	2.4	0.2	<0.05	11.9	7.86	31.4	0.02	<1	0.4	45.0	<10	<2
AA068406	Soil	<0.02	2.1	0.2	<0.05	11.1	8.29	40.0	0.02	<1	0.6	28.1	<10	<2
AA068407	Soil	<0.02	1.3	0.1	<0.05	14.7	8.53	29.3	0.03	<1	0.4	31.4	<10	<2
AA068408	Soil	0.05	2.5	0.4	<0.05	9.0	14.83	51.6	0.03	<1	0.4	20.2	<10	<2
AA068409	Soil	0.09	2.1	0.2	<0.05	5.3	11.28	42.1	<0.02	<1	0.2	18.9	<10	<2
AA068410	Soil	0.12	2.6	0.4	<0.05	2.2	16.06	31.8	0.03	<1	0.6	11.8	<10	<2



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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
AA068411	Soil	0.26	39.68	29.95	84.8	122	37.4	18.8	462	3.58	16.8	1.7	2.8	13.4	44.9	0.11	1.39	0.35	10	1.87	0.089
AA068412	Soil	0.78	51.44	89.61	94.1	320	45.2	16.7	1207	4.80	36.0	2.3	8.2	15.4	158.1	0.26	7.01	0.56	6	2.34	0.053
AA068413	Soil	0.44	37.46	43.24	105.4	141	47.5	25.5	1053	3.88	16.9	2.7	1.7	17.7	30.9	0.14	1.62	0.35	4	0.57	0.034
AA068414	Soil	0.39	28.43	35.14	62.9	159	32.4	16.3	462	3.30	18.3	1.9	4.2	15.5	78.6	0.11	2.01	0.30	4	2.10	0.076
AA068415	Soil	0.49	35.93	44.26	79.1	205	37.0	15.7	337	3.22	23.8	1.7	6.6	13.7	109.6	0.14	2.98	0.40	5	3.47	0.049
AA068416	Soil	0.28	20.07	20.63	54.1	112	17.8	6.4	243	2.27	28.6	1.8	9.5	3.1	26.4	0.10	0.80	0.25	8	0.39	0.087
AA068417	Soil	0.36	35.75	36.44	78.8	312	37.5	17.3	424	3.34	37.1	1.5	15.9	15.7	35.0	0.08	2.59	0.33	6	0.43	0.040
AA068418	Soil	0.56	39.22	32.45	87.8	137	38.7	16.0	357	3.65	24.0	1.6	6.6	11.0	56.2	0.11	2.07	0.40	10	1.29	0.069
AA068419	Soil	0.43	31.69	23.71	76.1	89	33.1	13.9	344	3.43	20.5	1.7	6.4	3.9	14.8	0.08	1.20	0.38	12	0.14	0.060
AA068420	Soil	0.42	29.73	22.08	76.3	44	31.8	12.1	298	3.52	37.5	1.5	15.2	4.3	15.4	0.06	1.36	0.39	12	0.12	0.063
AA068421	Soil	0.48	67.77	53.78	106.6	145	50.7	34.3	760	4.76	12.9	2.3	1.7	15.5	18.6	0.09	0.82	0.79	14	0.23	0.057
AA068422	Soil	0.61	76.06	58.96	107.8	159	51.7	36.7	831	4.85	13.4	2.5	2.7	16.9	23.3	0.11	0.88	0.86	14	0.29	0.063
AA068423	Soil	0.64	79.05	65.54	108.4	185	45.1	31.3	953	4.67	13.3	3.3	2.2	14.0	27.6	0.15	0.87	0.74	14	0.50	0.087
AA068424	Soil	0.50	22.57	21.06	92.7	135	29.6	9.2	249	3.26	10.6	4.5	1.3	8.7	19.3	0.04	0.33	0.50	13	0.12	0.079
AA068425	Soil	0.36	31.07	24.74	114.2	48	37.4	12.2	286	3.96	13.2	5.6	1.5	13.4	25.2	0.06	0.44	0.59	14	0.16	0.077
AA068426	Soil	1.01	61.46	43.68	144.6	23	33.5	19.7	432	4.09	22.0	8.0	2.3	12.1	15.5	0.06	0.85	0.57	15	0.09	0.090
AA068427	Soil	0.16	14.04	11.43	14.6	68	4.3	2.5	72	0.62	5.9	1.1	1.1	0.4	8.6	0.04	0.14	0.09	4	0.09	0.042
AA068428	Soil	0.53	30.15	36.19	77.9	19	27.5	13.2	349	3.59	30.0	1.0	3.0	6.2	5.4	0.05	0.80	0.44	15	0.03	0.047
AA068429	Soil	0.58	29.42	36.20	73.8	32	32.0	15.6	508	3.56	31.6	1.4	3.8	6.0	8.1	0.13	0.79	0.43	13	0.07	0.072
AA068430	Soil	0.41	16.10	14.62	42.4	47	14.6	6.7	283	1.97	30.8	0.9	4.8	1.4	5.9	0.04	0.37	0.27	12	0.04	0.058
AA068431	Soil	0.40	30.63	26.61	74.0	21	34.4	13.1	285	3.58	34.7	1.0	5.4	7.4	5.5	0.06	0.57	0.42	14	0.04	0.043
AA068432	Soil	0.46	29.82	30.65	77.9	24	31.8	17.3	449	3.69	89.0	0.9	25.9	9.9	4.5	0.05	0.94	0.46	11	0.02	0.040
AA068433	Soil	0.29	23.16	24.31	66.7	32	26.8	12.5	296	2.99	89.2	1.3	22.6	10.6	10.6	0.03	0.58	0.35	9	0.11	0.038
AA068434	Soil	0.57	28.93	33.36	90.1	51	31.2	15.1	432	2.98	147.6	1.8	31.7	8.9	8.4	0.12	0.65	0.36	12	0.05	0.051
AA068435	Soil	0.76	67.71	52.95	107.9	156	36.5	25.2	655	3.79	37.9	2.7	2.7	8.2	9.6	0.10	0.60	0.56	17	0.06	0.103
AA068436	Soil	0.98	39.47	53.40	104.8	81	33.7	21.0	710	3.90	227.2	1.7	26.4	6.6	11.9	0.12	1.02	0.56	29	0.07	0.077
AA068437	Soil	0.39	38.28	93.77	116.1	419	30.1	17.7	589	3.07	371.2	1.6	119.3	12.0	16.2	0.38	2.08	0.41	7	0.08	0.049
AA068438	Soil	0.38	48.45	45.25	87.8	101	39.0	18.2	361	3.62	75.6	2.0	18.4	13.3	11.7	0.06	1.62	0.48	11	0.08	0.041
AA068439	Soil	0.46	44.71	43.60	75.5	115	26.5	25.5	720	2.80	31.8	2.2	5.5	11.5	7.0	0.04	0.78	0.42	11	0.05	0.049
AA068440	Soil	0.83	46.68	44.75	69.3	91	23.2	19.5	697	2.80	22.2	2.0	4.6	4.0	9.4	0.08	0.89	0.37	22	0.08	0.098



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Project: None Given

Report Date: September 01, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000178.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
AA068411	Soil	20.5	9.6	0.36	44.7	0.005	<1	1.07	0.007	0.04	<0.1	3.0	0.04	<0.02	21	<0.1	0.10	2.3	0.64	<0.1	0.09
AA068412	Soil	44.2	3.7	0.08	37.2	0.003	3	0.36	0.003	0.05	0.1	8.0	0.05	0.07	68	<0.1	0.06	0.6	0.44	<0.1	0.18
AA068413	Soil	23.4	4.3	0.16	43.5	<0.001	<1	0.66	0.002	0.04	<0.1	3.1	0.06	<0.02	20	<0.1	0.03	1.1	1.52	<0.1	0.12
AA068414	Soil	19.3	3.5	0.11	32.5	0.002	<1	0.58	0.004	0.04	<0.1	3.1	0.04	<0.02	29	<0.1	0.02	0.9	0.62	<0.1	0.08
AA068415	Soil	17.0	7.9	0.29	23.8	0.002	<1	0.71	0.003	0.03	<0.1	3.0	0.03	<0.02	24	<0.1	0.09	1.7	0.36	<0.1	0.12
AA068416	Soil	18.3	6.5	0.16	42.3	0.005	<1	1.05	0.017	0.03	<0.1	2.1	0.04	0.05	28	<0.1	0.03	1.9	0.44	<0.1	0.05
AA068417	Soil	19.2	10.3	0.37	37.0	0.001	<1	1.30	0.004	0.04	<0.1	2.9	0.04	<0.02	29	<0.1	0.03	2.2	1.09	<0.1	0.09
AA068418	Soil	22.7	12.0	0.34	39.0	0.006	<1	0.98	0.006	0.04	0.1	3.6	0.04	<0.02	15	<0.1	0.06	2.2	0.46	<0.1	0.05
AA068419	Soil	19.7	13.7	0.30	61.2	0.004	<1	1.29	0.005	0.03	<0.1	2.5	0.06	0.03	19	<0.1	0.03	2.9	0.58	<0.1	0.07
AA068420	Soil	17.1	14.6	0.34	45.7	0.003	<1	1.23	0.003	0.03	<0.1	1.8	0.05	0.02	18	0.2	0.03	3.1	0.74	<0.1	0.05
AA068421	Soil	13.7	28.9	0.88	24.0	0.002	<1	2.07	0.003	0.04	<0.1	2.7	0.03	0.03	13	<0.1	0.06	5.5	0.94	<0.1	0.18
AA068422	Soil	17.3	30.5	0.90	28.0	0.002	<1	2.11	0.004	0.04	<0.1	2.9	0.04	0.04	16	<0.1	0.07	5.7	1.15	<0.1	0.15
AA068423	Soil	17.9	26.5	0.78	39.3	0.002	<1	1.96	0.004	0.05	<0.1	3.6	0.05	0.03	40	0.1	0.05	4.8	1.26	<0.1	0.15
AA068424	Soil	11.5	22.5	0.58	56.1	0.003	<1	1.93	0.004	0.04	<0.1	1.6	0.06	0.04	8	<0.1	0.03	5.2	0.89	<0.1	0.07
AA068425	Soil	13.5	26.7	0.72	65.5	0.002	<1	2.25	0.003	0.06	<0.1	2.0	0.06	0.03	8	<0.1	0.03	5.5	0.91	<0.1	0.08
AA068426	Soil	12.5	27.6	0.58	43.4	0.004	<1	1.97	0.002	0.05	<0.1	2.9	0.07	0.06	17	0.2	0.03	4.8	1.85	<0.1	0.09
AA068427	Soil	4.3	3.0	0.07	18.7	0.011	<1	0.93	0.029	0.03	<0.1	0.5	0.03	0.05	11	0.3	<0.02	1.9	0.36	<0.1	<0.02
AA068428	Soil	15.6	20.1	0.48	37.4	0.003	<1	1.75	0.002	0.04	<0.1	1.0	0.07	0.02	21	0.1	0.07	4.6	0.92	<0.1	0.05
AA068429	Soil	14.0	18.7	0.45	33.9	0.003	<1	1.65	0.002	0.03	<0.1	1.2	0.05	0.03	20	<0.1	0.03	3.8	0.57	<0.1	0.11
AA068430	Soil	11.0	12.2	0.27	31.2	0.004	<1	1.10	0.008	0.03	<0.1	0.6	0.05	0.04	14	0.2	0.02	3.2	0.57	<0.1	0.03
AA068431	Soil	18.2	21.1	0.62	27.2	0.004	<1	1.75	0.002	0.03	<0.1	1.3	0.04	<0.02	11	<0.1	0.07	3.9	0.52	<0.1	0.08
AA068432	Soil	19.5	18.6	0.49	23.8	0.001	<1	1.62	0.002	0.03	<0.1	1.1	0.04	<0.02	8	0.3	0.05	3.6	0.65	<0.1	0.06
AA068433	Soil	17.7	15.4	0.44	26.1	0.001	<1	1.34	0.002	0.04	<0.1	1.3	0.03	<0.02	8	0.1	0.05	3.2	0.63	<0.1	0.04
AA068434	Soil	17.6	16.2	0.41	27.5	0.004	<1	1.38	0.002	0.04	<0.1	1.4	0.04	0.02	21	<0.1	0.03	3.5	0.77	<0.1	0.03
AA068435	Soil	9.2	22.0	0.50	38.4	0.004	1	1.81	0.002	0.05	<0.1	1.1	0.06	0.05	25	0.1	0.05	4.6	1.35	<0.1	0.04
AA068436	Soil	21.8	23.8	0.55	47.6	0.021	<1	1.89	0.005	0.07	0.1	2.4	0.10	0.02	21	0.1	0.04	5.3	1.77	<0.1	<0.02
AA068437	Soil	19.3	9.0	0.28	25.3	0.004	<1	0.97	0.013	0.03	<0.1	1.8	0.03	<0.02	16	<0.1	0.06	2.2	0.68	<0.1	0.03
AA068438	Soil	21.6	15.7	0.44	31.0	0.003	<1	1.40	0.002	0.04	<0.1	1.9	0.04	<0.02	16	0.1	0.03	3.1	1.07	<0.1	0.03
AA068439	Soil	15.8	14.2	0.43	29.9	0.006	<1	1.40	0.014	0.03	<0.1	1.6	0.05	<0.02	12	<0.1	0.04	3.5	0.82	<0.1	0.06
AA068440	Soil	14.9	17.6	0.38	33.9	0.022	<1	1.34	0.014	0.05	0.1	1.7	0.08	0.04	28	0.3	0.03	3.7	1.20	<0.1	<0.02



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Project: None Given

Report Date: September 01, 2016

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# CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
AA068411	Soil	0.06	2.8	0.4	<0.05	6.6	12.23	37.0	0.03	<1	0.5	21.9	<10	<2
AA068412	Soil	0.08	3.0	1.2	<0.05	18.3	33.65	85.6	0.08	<1	0.5	2.4	<10	5
AA068413	Soil	<0.02	2.6	0.6	<0.05	10.5	12.50	47.6	0.03	<1	0.6	4.7	<10	<2
AA068414	Soil	0.04	2.2	0.3	<0.05	7.5	10.38	36.2	0.02	<1	0.4	4.2	<10	<2
AA068415	Soil	0.03	1.6	0.3	<0.05	9.6	10.22	33.2	0.02	<1	0.5	17.4	<10	<2
AA068416	Soil	0.31	3.3	0.3	<0.05	2.6	11.83	35.0	0.04	<1	0.5	8.9	<10	<2
AA068417	Soil	0.06	3.2	0.7	<0.05	6.5	11.62	37.5	0.04	<1	0.6	17.8	<10	<2
AA068418	Soil	0.12	3.1	0.4	<0.05	4.3	12.49	40.0	0.03	<1	0.3	18.9	<10	<2
AA068419	Soil	0.20	4.3	0.3	<0.05	1.6	9.24	41.0	0.03	1	0.2	23.8	<10	<2
AA068420	Soil	0.16	4.3	0.2	<0.05	1.9	6.25	34.3	0.03	<1	0.2	25.5	<10	<2
AA068421	Soil	<0.02	1.8	0.2	<0.05	10.1	7.04	23.5	0.03	<1	0.5	69.1	<10	<2
AA068422	Soil	0.03	2.2	0.2	<0.05	9.4	8.23	29.3	0.02	<1	0.4	73.5	<10	<2
AA068423	Soil	0.09	3.1	0.3	<0.05	7.7	12.24	31.4	0.05	<1	0.6	62.2	<10	<2
AA068424	Soil	0.26	6.9	1.2	<0.05	2.6	4.28	21.2	<0.02	<1	0.4	46.4	<10	<2
AA068425	Soil	0.22	7.7	0.5	<0.05	3.2	5.47	25.5	0.02	<1	0.4	60.8	<10	<2
AA068426	Soil	0.30	8.6	0.5	<0.05	3.7	13.02	22.9	0.02	<1	0.7	44.7	<10	<2
AA068427	Soil	0.36	2.3	0.1	<0.05	1.0	4.10	7.0	<0.02	<1	0.3	3.8	<10	<2
AA068428	Soil	0.17	5.0	0.3	<0.05	1.8	2.20	28.9	<0.02	<1	0.3	33.7	<10	<2
AA068429	Soil	0.18	3.9	0.3	<0.05	3.4	3.69	35.1	0.03	<1	0.4	36.2	<10	<2
AA068430	Soil	0.15	4.1	0.4	<0.05	1.9	1.72	20.2	<0.02	<1	0.2	20.4	<10	<2
AA068431	Soil	0.20	3.8	0.2	<0.05	2.6	3.20	34.4	0.02	<1	0.4	46.7	<10	<2
AA068432	Soil	0.10	3.5	0.2	<0.05	2.4	2.26	36.7	<0.02	<1	0.4	34.2	<10	<2
AA068433	Soil	0.06	4.6	0.3	<0.05	1.5	2.72	33.8	<0.02	<1	0.3	30.5	<10	<2
AA068434	Soil	0.17	5.4	0.3	<0.05	1.2	3.29	35.6	0.03	<1	0.5	29.9	<10	<2
AA068435	Soil	0.25	7.1	0.4	<0.05	1.6	3.78	18.5	0.02	<1	0.7	34.0	<10	<2
AA068436	Soil	0.63	8.9	0.7	<0.05	1.1	5.19	42.5	0.03	<1	0.7	26.5	<10	<2
AA068437	Soil	0.11	2.8	0.2	<0.05	2.4	5.18	34.7	0.04	<1	0.4	15.5	<10	<2
AA068438	Soil	0.11	3.6	0.2	<0.05	2.0	5.82	39.6	0.02	<1	0.4	30.3	<10	<2
AA068439	Soil	0.16	3.4	0.2	<0.05	2.2	3.85	30.8	<0.02	<1	0.4	28.8	<10	<2
AA068440	Soil	0.42	7.3	0.5	<0.05	0.6	4.51	30.5	0.03	<1	0.3	21.5	<10	<2



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Project: None Given

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# CERTIFICATE OF ANALYSIS

# WHI16000178.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
AA068441	Soil	0.63	38.61	32.84	57.5	89	22.4	11.4	187	2.43	20.7	1.9	4.5	3.9	6.6	0.08	0.67	0.45	15	0.06	0.065
AA068442	Soil	0.33	28.18	26.94	57.1	118	21.0	14.7	426	2.25	33.9	1.4	15.4	10.4	11.4	0.07	0.79	0.30	10	0.14	0.061
AA068443	Soil	0.46	40.70	44.38	101.7	83	35.6	22.5	1173	4.24	25.2	2.2	9.0	15.4	13.0	0.21	1.04	0.46	11	0.10	0.065
AA068444	Soil	0.52	43.63	74.39	133.6	258	41.1	22.4	531	4.00	248.8	2.3	86.9	16.8	28.7	0.40	1.65	0.50	8	0.26	0.076
AA068445	Soil	0.43	45.40	34.91	91.2	146	38.4	19.8	509	3.87	79.5	2.4	19.9	15.2	17.7	0.09	1.15	0.48	7	0.21	0.053
AA068446	Soil	0.47	56.74	66.85	111.6	254	42.3	37.7	569	4.11	95.4	2.7	77.5	13.9	15.3	0.13	1.81	0.48	9	0.14	0.045
AA068447	Soil	0.41	41.12	53.51	82.8	130	31.3	29.2	996	3.49	32.0	2.0	11.9	30.3	32.1	0.08	0.89	0.36	6	0.28	0.040
AA068448	Soil	0.59	51.36	56.18	107.1	201	38.3	42.4	1251	4.14	22.6	2.7	7.1	24.8	19.8	0.13	1.23	0.39	9	0.18	0.036
AA068449	Soil	0.37	39.42	29.32	107.3	89	38.3	17.5	432	4.11	18.2	1.7	8.2	12.9	15.8	0.11	0.90	0.39	14	0.14	0.054
AA068450	Soil	0.21	11.69	8.52	29.1	49	7.0	3.1	142	0.92	2.9	0.8	1.0	0.3	93.8	0.07	0.21	0.09	7	1.61	0.074
AA068501	Soil	0.41	30.27	25.25	44.7	116	32.3	15.3	287	3.29	18.3	2.0	5.2	7.7	361.1	0.05	1.50	0.35	7	11.02	0.067
AA068502	Soil	0.42	35.10	27.05	46.1	131	34.5	16.8	275	3.87	19.5	2.0	5.4	9.9	262.5	0.06	2.07	0.35	7	7.70	0.060
AA068503	Soil	0.51	32.07	39.94	45.7	252	40.4	20.9	455	4.26	20.5	1.9	9.0	11.3	88.1	0.06	2.33	0.46	9	1.83	0.074
AA068504	Soil	0.48	36.44	37.56	36.5	282	44.5	22.2	374	4.02	39.3	1.8	33.2	10.9	59.4	0.05	3.49	0.44	6	2.09	0.048
AA068505	Soil	0.46	37.32	48.39	46.4	221	45.5	20.2	604	4.19	24.9	1.9	21.0	9.2	56.8	0.14	2.70	0.46	6	2.49	0.067
AA068506	Soil	0.33	46.07	42.74	70.9	217	44.0	20.6	554	4.32	15.3	2.0	4.9	16.1	24.1	0.05	1.75	0.46	8	0.61	0.084
AA068507	Soil	0.24	30.72	34.16	36.5	156	29.6	15.7	387	2.53	14.4	1.2	4.7	14.3	20.1	0.09	1.28	0.34	6	0.46	0.071
AA068508	Soil	0.65	43.73	39.14	28.7	197	47.9	28.0	559	4.71	27.8	3.0	5.6	16.6	130.0	0.08	3.68	0.44	6	3.36	0.113
AA068509	Soil	0.60	43.17	36.28	42.0	203	44.9	22.7	355	3.93	19.7	2.5	3.7	16.9	115.8	0.03	2.06	0.47	8	3.58	0.102
AA068510	Soil	0.52	35.58	35.21	47.3	193	33.8	16.4	721	3.46	16.6	2.4	3.9	10.2	127.5	0.12	2.01	0.37	9	3.13	0.120
AA068511	Soil	0.47	40.28	30.68	67.3	125	37.8	16.6	431	3.70	16.8	1.8	3.1	10.8	163.1	0.07	1.46	0.47	8	3.94	0.079
AA068512	Soil	0.44	38.33	33.27	61.9	159	36.8	17.5	488	3.56	18.4	1.7	3.1	11.8	136.4	0.11	1.68	0.45	7	4.41	0.071
AA068513	Soil	0.51	42.40	44.30	89.0	214	42.7	20.7	707	4.18	20.1	2.1	5.5	12.9	46.0	0.21	1.81	0.47	8	0.98	0.105
AA068514	Soil	0.44	31.87	47.37	75.7	166	35.0	17.2	606	3.84	19.4	2.1	3.1	6.2	50.5	0.16	2.06	0.36	8	0.63	0.060
AA068515	Soil	0.39	37.82	33.34	110.1	248	35.3	14.2	339	4.05	34.2	1.8	20.2	4.4	56.5	0.17	3.34	0.50	8	0.79	0.089
AA068516	Soil	0.45	29.75	40.63	84.3	184	26.6	9.4	376	3.51	15.0	2.2	4.3	2.6	79.1	0.20	1.03	0.50	13	1.30	0.107
AA068517	Soil	0.50	28.75	42.80	90.0	190	27.7	10.3	375	3.56	15.6	2.2	9.6	2.7	68.3	0.23	1.12	0.50	13	1.10	0.115
AA068518	Soil	0.67	71.42	55.71	122.6	259	47.9	31.8	695	5.21	14.6	2.7	11.6	14.7	72.6	0.16	0.85	0.70	13	1.33	0.077
AA068519	Soil	0.73	64.61	54.45	130.1	187	52.6	31.3	525	5.47	21.9	2.7	12.2	14.4	134.7	0.14	1.06	0.76	11	2.97	0.075
AA068520	Soil	0.52	59.69	57.22	103.4	119	44.7	35.7	959	4.55	14.3	1.7	3.5	17.6	22.6	0.07	0.81	0.73	13	0.25	0.054



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Project: None Given

Report Date: September 01, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000178.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA068441	Soil	10.4	13.1	0.37	18.3	0.011	<1	1.19	0.009	0.04	<0.1	1.1	0.06	0.03	23	0.3	0.03	3.1	0.87	<0.1	0.03
AA068442	Soil	14.1	10.1	0.29	20.3	0.008	<1	0.99	0.016	0.03	<0.1	1.4	0.03	<0.02	11	<0.1	0.03	2.5	0.57	<0.1	0.04
AA068443	Soil	25.8	15.6	0.48	30.7	0.005	<1	1.47	0.005	0.05	0.1	3.5	0.05	<0.02	30	<0.1	0.05	3.5	0.67	<0.1	0.08
AA068444	Soil	26.1	11.5	0.37	31.1	0.002	1	1.09	0.005	0.03	<0.1	3.9	0.03	<0.02	22	<0.1	0.06	2.1	0.67	<0.1	0.12
AA068445	Soil	19.7	8.2	0.31	20.1	0.001	<1	0.85	0.003	0.03	<0.1	3.2	0.02	<0.02	20	0.3	0.06	1.7	0.55	<0.1	0.10
AA068446	Soil	15.3	16.4	0.47	21.9	<0.001	<1	1.38	0.002	0.03	<0.1	2.2	0.05	<0.02	21	<0.1	0.02	3.3	0.89	<0.1	0.03
AA068447	Soil	17.3	8.4	0.28	29.0	<0.001	<1	1.07	0.003	0.03	<0.1	2.3	0.03	<0.02	28	<0.1	0.02	1.7	1.84	<0.1	0.17
AA068448	Soil	12.2	16.1	0.49	28.1	0.001	2	1.59	0.003	0.04	<0.1	2.5	0.04	<0.02	22	<0.1	0.03	3.2	1.31	<0.1	0.12
AA068449	Soil	20.6	22.4	0.74	28.1	0.004	<1	1.79	0.005	0.03	<0.1	3.0	0.02	<0.02	16	0.2	0.03	4.3	0.61	<0.1	0.09
AA068450	Soil	8.5	2.5	0.06	31.7	0.011	2	0.65	0.035	0.03	<0.1	0.8	0.03	0.06	23	0.1	<0.02	1.2	0.20	<0.1	0.03
AA068501	Soil	14.5	9.8	0.49	17.8	0.001	<1	0.91	0.003	0.03	<0.1	4.0	<0.02	<0.02	28	0.4	0.04	1.9	0.37	<0.1	0.09
AA068502	Soil	13.3	10.0	0.50	18.1	<0.001	1	0.96	0.002	0.03	<0.1	3.8	<0.02	<0.02	23	0.7	0.05	2.0	0.38	<0.1	0.11
AA068503	Soil	20.0	13.7	0.66	32.9	0.001	1	1.33	0.003	0.04	<0.1	3.8	0.03	0.03	47	0.4	0.03	3.0	0.69	<0.1	0.13
AA068504	Soil	20.2	9.1	0.33	34.5	<0.001	2	0.84	0.002	0.04	<0.1	3.7	0.03	0.02	35	0.2	0.09	1.8	0.53	<0.1	0.10
AA068505	Soil	21.6	6.1	0.22	53.7	0.004	1	0.77	0.008	0.04	<0.1	4.0	0.04	0.03	56	0.3	0.13	1.4	0.35	<0.1	0.07
AA068506	Soil	26.9	13.8	0.63	30.8	0.002	<1	1.35	0.003	0.03	<0.1	4.3	0.02	<0.02	26	<0.1	0.13	2.9	0.53	<0.1	0.11
AA068507	Soil	22.3	7.4	0.31	40.2	0.002	1	0.91	0.002	0.04	<0.1	3.1	0.02	<0.02	14	0.2	0.04	1.8	1.13	<0.1	0.08
AA068508	Soil	22.9	9.3	0.33	27.2	0.003	3	0.80	0.004	0.04	<0.1	3.7	0.03	0.02	48	0.6	0.05	1.7	0.59	<0.1	0.30
AA068509	Soil	16.0	13.6	0.54	30.4	0.001	1	1.12	0.004	0.06	<0.1	3.2	0.04	<0.02	36	0.2	0.08	2.3	0.89	<0.1	0.17
AA068510	Soil	24.6	8.6	0.37	59.0	0.005	2	0.97	0.014	0.04	<0.1	4.6	0.04	0.03	56	0.4	0.06	1.8	0.51	<0.1	0.12
AA068511	Soil	17.3	13.3	0.55	26.9	0.004	1	1.20	0.005	0.03	<0.1	3.4	0.02	0.02	27	0.4	0.06	2.7	0.26	<0.1	0.14
AA068512	Soil	19.1	10.7	0.43	30.0	0.002	<1	1.00	0.003	0.04	<0.1	3.1	0.03	<0.02	32	0.3	0.06	2.3	0.44	<0.1	0.10
AA068513	Soil	29.4	11.5	0.42	40.5	0.002	<1	1.15	0.006	0.04	<0.1	4.4	0.04	0.02	52	0.2	0.06	2.4	0.54	<0.1	0.13
AA068514	Soil	17.1	9.1	0.25	43.2	0.002	<1	1.02	0.002	0.03	<0.1	2.7	0.04	0.04	24	0.5	0.07	2.1	0.67	<0.1	0.14
AA068515	Soil	40.1	7.5	0.16	53.4	0.002	<1	0.83	0.007	0.02	<0.1	4.4	0.04	0.05	56	0.4	0.08	1.7	0.41	<0.1	0.14
AA068516	Soil	37.2	10.6	0.20	60.3	0.004	1	1.04	0.004	0.02	<0.1	3.8	0.05	0.07	85	0.3	0.09	2.2	0.36	<0.1	0.10
AA068517	Soil	35.0	11.6	0.21	52.7	0.004	<1	1.01	0.004	0.02	<0.1	3.7	0.06	0.06	116	0.6	0.26	2.3	0.38	0.1	0.07
AA068518	Soil	20.6	26.8	0.78	29.9	0.001	2	1.96	0.004	0.04	<0.1	3.2	0.04	0.06	75	0.8	0.32	5.3	1.30	<0.1	0.19
AA068519	Soil	17.7	23.7	0.68	22.7	0.001	<1	1.61	0.004	0.05	<0.1	3.0	0.05	0.09	100	0.9	0.35	4.5	0.78	0.1	0.16
AA068520	Soil	15.6	27.2	0.85	29.8	0.002	1	2.01	0.003	0.04	<0.1	2.6	0.04	<0.02	18	<0.1	0.09	5.2	0.99	<0.1	0.19



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Project: None Given

Report Date: September 01, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA068441	Soil	0.19	3.8	0.6	<0.05	1.5	3.17	20.6	<0.02	<1	0.2	22.8	<10	<2
AA068442	Soil	0.14	2.5	0.4	<0.05	3.4	4.15	27.5	<0.02	<1	0.1	17.5	<10	<2
AA068443	Soil	0.12	3.6	0.5	<0.05	5.7	8.22	54.7	0.04	<1	0.1	28.8	<10	<2
AA068444	Soil	0.05	2.2	0.3	<0.05	8.7	11.31	48.8	0.03	<1	0.5	21.5	<10	<2
AA068445	Soil	0.03	1.9	0.2	<0.05	7.9	9.55	35.7	0.02	<1	0.5	17.2	<10	<2
AA068446	Soil	<0.02	1.8	0.4	<0.05	2.4	5.77	29.7	0.03	<1	0.4	30.4	<10	<2
AA068447	Soil	<0.02	2.4	0.5	<0.05	10.9	7.39	34.2	<0.02	<1	0.3	13.2	<10	<2
AA068448	Soil	<0.02	2.4	0.7	<0.05	8.9	7.39	24.6	0.03	<1	0.4	29.3	<10	<2
AA068449	Soil	0.06	2.5	0.1	<0.05	5.1	7.35	36.5	0.02	<1	0.4	48.3	<10	<2
AA068450	Soil	0.24	1.9	0.3	<0.05	1.5	3.99	15.0	<0.02	<1	0.2	2.7	<10	<2
AA068501	Soil	0.04	1.3	0.2	<0.05	6.0	10.15	25.9	<0.02	<1	0.3	26.9	<10	<2
AA068502	Soil	0.03	1.4	0.2	<0.05	6.8	10.17	24.6	<0.02	<1	0.2	27.0	<10	<2
AA068503	Soil	0.05	2.5	0.5	<0.05	7.5	15.62	38.3	0.04	<1	0.2	35.7	<10	<2
AA068504	Soil	0.04	2.3	0.5	<0.05	5.1	15.24	36.3	0.06	<1	0.3	18.1	<10	<2
AA068505	Soil	0.14	2.3	0.3	<0.05	4.7	18.38	40.9	0.06	<1	0.4	11.3	<10	3
AA068506	Soil	0.02	1.7	0.4	<0.05	7.8	19.16	52.5	0.03	<1	0.2	35.3	<10	<2
AA068507	Soil	0.04	2.7	0.2	<0.05	5.2	10.93	43.7	0.03	<1	0.2	14.2	<10	<2
AA068508	Soil	0.04	2.1	0.8	<0.05	20.5	12.05	44.8	0.05	<1	<0.1	18.2	<10	<2
AA068509	Soil	0.02	2.4	1.8	<0.05	18.0	8.44	31.8	0.03	<1	0.3	29.8	<10	3
AA068510	Soil	0.15	3.0	0.4	<0.05	7.9	14.07	50.2	0.07	<1	0.5	19.2	<10	<2
AA068511	Soil	0.08	1.6	0.6	<0.05	8.8	9.54	32.7	0.03	<1	0.4	33.5	<10	<2
AA068512	Soil	0.03	2.0	0.3	<0.05	7.6	10.25	36.2	0.04	<1	0.6	25.3	<10	<2
AA068513	Soil	0.09	2.5	0.7	<0.05	6.6	14.78	54.6	0.04	2	0.3	23.0	<10	<2
AA068514	Soil	0.16	4.1	0.4	<0.05	4.3	13.89	33.9	0.04	<1	0.3	15.9	<10	<2
AA068515	Soil	0.17	2.4	0.4	<0.05	5.0	23.93	59.5	0.08	<1	0.6	7.1	<10	3
AA068516	Soil	0.28	3.0	0.4	<0.05	2.9	26.04	58.5	0.06	<1	0.8	10.1	<10	<2
AA068517	Soil	0.28	3.1	0.4	<0.05	2.7	23.65	57.1	0.07	2	0.7	10.7	14	10
AA068518	Soil	0.05	2.7	0.3	<0.05	8.6	10.07	36.2	0.04	3	0.6	61.8	<10	10
AA068519	Soil	0.04	2.0	0.5	<0.05	8.6	8.50	31.0	0.04	1	0.6	53.2	14	9
AA068520	Soil	0.03	2.2	0.2	<0.05	12.9	7.03	27.7	0.03	<1	0.5	66.7	<10	<2



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Project: None Given

Report Date: September 01, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000178.1

Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
AA068521	Soil	0.51	56.55	55.95	99.9	118	42.5	33.8	939	4.47	13.9	1.6	3.5	18.0	20.8	0.04	0.80	0.68	13	0.22	0.051
AA068522	Soil	0.53	59.33	53.68	102.5	128	41.9	30.9	868	4.40	13.4	1.6	1.8	17.4	23.3	0.08	0.69	0.65	13	0.28	0.055
AA068523	Soil	1.05	97.70	93.29	175.4	165	75.3	101.5	906	5.16	37.1	3.4	4.0	21.7	13.7	0.15	1.41	0.78	13	0.09	0.055
AA068524	Soil	0.21	49.08	34.46	100.5	42	40.1	21.2	471	4.06	23.3	1.2	7.0	19.2	7.1	0.02	0.61	0.54	12	0.03	0.035
AA068525	Soil	0.67	28.91	19.35	73.9	94	27.5	9.7	302	3.53	23.6	1.5	223.6	4.4	7.2	0.04	0.45	0.54	17	0.03	0.070
AA068526	Soil	0.19	34.06	23.35	92.9	19	38.1	24.0	675	4.71	21.9	0.8	3.1	9.0	4.0	0.05	0.20	1.14	14	0.01	0.043
AA068527	Soil	0.78	12.25	19.43	59.1	29	17.9	8.0	405	3.02	11.3	0.8	3.5	0.9	9.1	0.05	0.35	0.54	30	0.04	0.058
AA068528	Soil	0.57	39.38	35.35	81.4	22	31.6	18.7	545	4.20	30.5	1.4	4.6	5.2	8.9	0.07	0.64	0.64	20	0.08	0.060
AA068529	Soil	0.42	14.15	12.79	54.8	36	17.2	6.9	238	2.28	25.2	0.7	12.5	2.5	6.8	<0.01	0.35	0.32	15	0.03	0.048
AA068530	Soil	0.44	21.16	24.38	69.3	33	22.9	11.7	446	3.28	49.9	1.0	8.2	4.9	4.9	0.10	0.68	0.41	14	0.02	0.054
AA068531	Soil	0.24	28.67	25.54	69.9	67	32.5	13.6	341	3.31	60.0	0.9	24.2	9.9	6.6	0.03	1.04	0.39	8	0.05	0.035
AA068532	Soil	0.64	37.13	51.86	92.4	129	27.4	14.7	392	3.34	236.1	2.1	32.8	4.9	11.1	0.16	0.96	0.50	17	0.06	0.072
AA068533	Soil	0.39	24.62	31.20	71.9	75	22.9	13.1	448	2.81	69.8	1.7	20.7	6.8	9.4	0.13	0.76	0.35	12	0.09	0.046
AA068534	Soil	0.36	27.68	32.96	61.2	231	28.3	17.1	550	3.01	102.4	1.3	43.8	12.7	17.2	0.09	2.14	0.37	5	0.19	0.028
AA068535	Soil	0.42	34.29	56.70	99.3	92	28.4	18.8	716	3.22	79.2	1.1	11.7	7.0	6.5	0.13	1.28	0.43	10	0.03	0.063
AA068536	Soil	0.36	38.45	43.36	75.0	189	31.0	18.6	527	3.28	62.4	1.3	11.6	13.2	12.8	0.03	1.64	0.48	6	0.14	0.035
AA068537	Soil	0.35	71.29	61.26	112.3	196	46.9	51.4	769	3.76	39.8	2.1	5.7	23.6	17.5	0.05	1.41	0.57	7	0.17	0.056
AA068538	Soil	1.18	53.31	73.52	109.3	51	34.4	31.3	671	4.14	34.9	1.4	5.8	8.6	6.0	0.02	1.38	0.53	14	0.04	0.060
AA068539	Soil	0.69	45.38	39.63	91.5	72	32.3	21.3	1129	4.34	115.3	1.4	14.3	5.7	4.5	0.05	1.80	0.59	15	0.02	0.079
AA068540	Soil	0.42	37.81	30.45	89.5	95	33.1	8.5	355	4.17	33.2	2.0	18.7	10.8	3.9	0.03	1.12	0.52	11	<0.01	0.048
AA068541	Soil	0.93	32.97	57.83	85.9	50	29.2	11.9	452	6.24	20.5	1.4	1.3	2.4	7.6	0.07	0.84	0.81	25	0.04	0.114
AA068542	Soil	0.26	27.90	37.26	46.6	253	27.5	23.8	1415	2.88	443.5	2.0	133.6	20.0	18.4	0.07	1.01	0.38	5	0.19	0.046
AA068543	Soil	0.43	29.11	29.00	70.9	80	26.6	15.7	712	3.22	21.9	1.4	10.2	15.5	7.7	0.12	0.67	0.33	9	0.06	0.045
AA068544	Soil	0.37	43.64	29.22	99.0	117	43.1	20.0	347	4.05	23.6	2.2	8.4	11.7	44.3	0.16	2.25	0.46	8	1.10	0.059
AA068545	Soil	0.56	45.70	27.45	100.5	152	45.6	18.6	287	4.19	24.5	3.3	3.6	13.4	385.0	0.12	2.31	0.42	6	8.88	0.092
AA068546	Soil	0.54	42.70	23.10	83.6	128	42.8	17.0	190	3.89	17.3	3.5	0.9	13.0	404.7	0.06	1.19	0.39	5	10.21	0.086
AA068547	Soil	0.44	36.67	25.77	77.4	155	35.9	15.2	214	3.70	21.6	3.2	3.2	11.1	419.4	0.08	2.47	0.34	5	9.97	0.088
AA068548	Soil	0.47	34.91	33.57	81.0	148	36.0	13.7	555	3.62	19.7	2.9	3.1	11.9	386.2	0.17	2.07	0.41	7	7.94	0.085
AA068549	Soil	0.76	41.92	48.20	103.0	251	45.5	18.8	675	4.57	31.1	3.5	8.8	12.4	138.2	0.26	3.55	0.43	8	2.30	0.136
AA068550	Soil	0.34	29.54	51.58	97.6	476	26.6	10.6	464	3.81	24.5	2.1	34.3	1.5	154.9	0.17	3.46	0.39	7	3.39	0.116



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Project: None Given

Report Date: September 01, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000178.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA068521	Soil	15.7	26.6	0.84	27.5	0.004	<1	1.97	0.003	0.04	<0.1	2.6	0.04	<0.02	20	<0.1	0.10	5.1	0.83	0.1	0.23
AA068522	Soil	18.9	26.7	0.81	34.5	0.002	1	1.99	0.004	0.04	<0.1	2.5	0.05	<0.02	20	<0.1	0.06	5.1	0.93	<0.1	0.18
AA068523	Soil	16.5	30.1	0.81	24.9	0.002	2	2.15	0.001	0.05	<0.1	1.9	0.06	<0.02	20	<0.1	<0.02	5.2	0.70	0.2	0.03
AA068524	Soil	26.1	24.8	0.73	33.6	<0.001	1	2.14	0.002	0.09	<0.1	1.7	0.03	<0.02	6	<0.1	<0.02	5.0	0.46	<0.1	<0.02
AA068525	Soil	16.8	24.7	0.61	39.3	0.005	<1	2.02	0.004	0.05	<0.1	1.1	0.07	0.03	24	0.2	<0.02	5.5	1.11	<0.1	0.03
AA068526	Soil	20.3	23.6	0.89	28.4	0.001	1	2.13	0.001	0.03	<0.1	1.2	0.03	<0.02	11	<0.1	0.13	5.1	0.57	<0.1	0.06
AA068527	Soil	21.2	25.1	0.48	43.8	0.014	<1	1.71	0.002	0.05	0.1	0.8	0.12	<0.02	26	0.1	0.04	6.9	1.56	<0.1	<0.02
AA068528	Soil	16.4	25.2	0.69	31.3	0.006	<1	2.01	0.002	0.03	<0.1	1.3	0.07	0.02	20	<0.1	0.06	5.3	0.89	<0.1	0.04
AA068529	Soil	18.6	15.8	0.37	50.6	0.006	<1	1.32	0.006	0.04	<0.1	0.9	0.06	<0.02	14	0.4	<0.02	4.0	0.84	<0.1	0.03
AA068530	Soil	16.9	17.5	0.41	42.8	0.004	1	1.48	0.003	0.03	<0.1	1.1	0.05	0.02	36	0.3	0.08	4.0	0.72	<0.1	0.04
AA068531	Soil	23.1	16.3	0.47	25.4	0.002	<1	1.38	0.002	0.03	<0.1	1.3	0.03	<0.02	7	<0.1	0.03	3.0	0.47	<0.1	0.03
AA068532	Soil	11.3	16.0	0.35	60.2	0.004	1	1.68	0.009	0.05	0.1	1.6	0.09	0.04	75	1.1	0.25	4.1	1.85	0.1	0.05
AA068533	Soil	16.9	13.3	0.34	38.8	0.004	<1	1.33	0.008	0.04	<0.1	1.3	0.04	<0.02	56	0.5	0.20	3.3	0.86	<0.1	0.03
AA068534	Soil	17.1	9.1	0.22	22.6	<0.001	<1	0.88	0.002	0.03	<0.1	2.0	0.04	<0.02	60	0.6	0.31	1.8	0.82	0.1	0.05
AA068535	Soil	14.3	12.2	0.33	31.1	0.003	<1	1.27	0.005	0.04	<0.1	1.2	0.04	<0.02	13	0.1	<0.02	2.8	0.94	<0.1	0.03
AA068536	Soil	16.5	11.0	0.33	20.0	<0.001	<1	1.11	0.001	0.03	<0.1	1.8	0.03	<0.02	16	<0.1	0.03	2.4	0.70	<0.1	0.07
AA068537	Soil	16.0	12.3	0.39	19.1	<0.001	<1	1.25	0.002	0.02	<0.1	1.9	0.03	<0.02	16	<0.1	<0.02	2.5	0.79	<0.1	0.08
AA068538	Soil	12.5	22.7	0.60	27.0	0.002	<1	1.74	0.002	0.03	<0.1	1.1	0.04	0.04	27	0.1	<0.02	4.9	0.85	<0.1	0.07
AA068539	Soil	10.1	19.0	0.45	32.5	0.004	<1	1.44	0.002	0.03	<0.1	1.4	0.05	0.04	18	0.2	0.04	4.5	1.26	<0.1	0.08
AA068540	Soil	5.4	22.7	0.75	11.3	0.003	<1	1.90	0.001	0.03	<0.1	1.3	0.03	<0.02	7	<0.1	<0.02	4.6	0.38	<0.1	0.10
AA068541	Soil	7.0	30.7	0.64	28.5	0.009	<1	2.06	0.002	0.04	<0.1	0.8	0.07	0.06	27	0.2	<0.02	7.4	1.22	<0.1	0.03
AA068542	Soil	16.9	6.9	0.30	39.9	0.001	<1	0.96	0.002	0.03	<0.1	1.8	0.03	<0.02	8	<0.1	<0.02	1.9	0.85	<0.1	0.06
AA068543	Soil	21.9	14.2	0.42	20.7	0.004	2	1.24	0.004	0.04	<0.1	1.8	0.03	<0.02	43	1.1	0.10	3.5	0.63	0.1	0.04
AA068544	Soil	30.6	7.3	0.26	26.7	0.001	1	0.74	0.004	0.03	<0.1	4.7	0.03	<0.02	39	0.3	0.14	1.5	0.45	<0.1	0.12
AA068545	Soil	39.7	8.8	0.38	15.0	0.002	2	0.60	0.007	0.04	<0.1	4.6	0.03	0.07	67	0.2	<0.02	1.4	0.66	<0.1	0.26
AA068546	Soil	34.0	5.8	0.25	16.6	<0.001	<1	0.50	0.005	0.03	<0.1	4.7	0.03	0.04	76	0.6	0.06	0.9	0.72	<0.1	0.15
AA068547	Soil	21.7	4.9	0.20	25.4	0.002	<1	0.52	0.007	0.03	<0.1	4.8	0.03	0.06	42	0.5	<0.02	0.9	0.72	<0.1	0.16
AA068548	Soil	29.6	7.1	0.28	24.7	0.003	<1	0.60	0.005	0.04	<0.1	5.3	0.05	0.05	59	0.5	<0.02	1.2	0.44	<0.1	0.22
AA068549	Soil	28.8	5.1	0.17	51.6	0.006	2	0.67	0.008	0.04	<0.1	5.8	0.05	0.09	112	0.7	0.14	1.3	0.54	<0.1	0.09
AA068550	Soil	30.0	5.3	0.12	60.9	0.002	<1	0.71	0.008	0.04	<0.1	2.5	0.05	0.09	70	0.6	<0.02	1.2	0.38	<0.1	0.05



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Project: None Given

Report Date: September 01, 2016

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# CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA068521	Soil	<0.02	2.1	0.3	<0.05	12.7	7.57	28.8	0.03	<1	0.5	66.5	<10	<2
AA068522	Soil	0.04	2.3	0.4	<0.05	11.1	8.24	33.2	0.03	<1	0.7	67.9	<10	<2
AA068523	Soil	<0.02	3.1	0.3	<0.05	2.5	5.35	32.9	0.02	<1	0.2	58.7	<10	<2
AA068524	Soil	0.03	3.5	0.2	<0.05	1.7	3.38	49.9	<0.02	<1	0.6	52.4	<10	<2
AA068525	Soil	0.36	7.8	0.3	<0.05	1.6	3.14	30.3	0.03	<1	0.3	42.3	<10	<2
AA068526	Soil	0.05	3.7	0.2	<0.05	2.3	1.84	36.2	0.02	<1	0.4	52.8	<10	<2
AA068527	Soil	0.51	9.0	0.8	<0.05	0.3	2.06	38.9	<0.02	<1	0.4	32.3	<10	<2
AA068528	Soil	0.28	5.1	0.3	<0.05	1.6	3.41	32.6	<0.02	<1	0.3	51.8	<10	<2
AA068529	Soil	0.23	7.2	0.3	<0.05	0.5	2.18	35.3	0.02	<1	0.2	25.7	<10	<2
AA068530	Soil	0.21	5.0	0.3	<0.05	1.4	3.23	34.9	0.02	<1	0.4	30.1	<10	<2
AA068531	Soil	0.07	3.0	0.2	<0.05	1.5	4.07	44.5	<0.02	<1	0.4	32.2	<10	<2
AA068532	Soil	0.37	7.9	0.5	<0.05	1.6	5.00	21.9	0.04	2	1.0	19.7	15	9
AA068533	Soil	0.17	4.5	0.2	<0.05	1.3	3.22	33.2	<0.02	<1	0.4	22.5	24	8
AA068534	Soil	0.03	2.2	0.2	<0.05	2.9	6.29	35.4	<0.02	2	0.5	12.9	19	12
AA068535	Soil	0.12	4.6	0.2	<0.05	1.4	4.01	27.2	<0.02	<1	0.6	19.7	<10	<2
AA068536	Soil	0.04	2.4	0.2	<0.05	3.0	7.47	32.9	<0.02	<1	0.2	19.5	<10	<2
AA068537	Soil	<0.02	1.8	0.1	<0.05	8.7	9.25	33.0	0.02	<1	0.6	24.2	<10	<2
AA068538	Soil	0.13	3.9	0.3	<0.05	4.1	4.12	25.2	<0.02	<1	0.4	42.7	<10	<2
AA068539	Soil	0.19	5.0	0.5	<0.05	2.2	4.16	19.8	0.04	<1	0.3	31.3	<10	<2
AA068540	Soil	0.06	2.9	0.2	<0.05	3.8	1.54	10.2	<0.02	<1	0.1	52.0	<10	<2
AA068541	Soil	0.45	6.1	0.5	<0.05	1.5	1.97	13.7	0.03	<1	0.4	43.1	<10	<2
AA068542	Soil	<0.02	2.1	0.2	<0.05	6.2	5.72	34.2	<0.02	<1	0.2	14.4	<10	<2
AA068543	Soil	0.09	2.9	0.6	<0.05	4.6	4.66	44.6	0.02	1	0.6	24.3	16	10
AA068544	Soil	0.03	1.8	0.5	<0.05	9.0	14.50	63.0	0.03	1	0.9	13.5	11	<2
AA068545	Soil	0.03	1.8	1.7	<0.05	20.3	12.91	66.3	0.03	<1	0.5	19.3	<10	<2
AA068546	Soil	<0.02	1.5	0.6	<0.05	16.9	9.95	58.3	0.03	<1	0.4	11.9	<10	<2
AA068547	Soil	0.05	1.7	0.5	<0.05	14.5	9.31	39.0	0.02	<1	0.4	9.0	<10	<2
AA068548	Soil	0.09	2.3	0.3	<0.05	13.5	17.95	57.4	0.04	<1	0.4	13.8	<10	<2
AA068549	Soil	0.17	3.0	0.6	<0.05	8.6	20.02	56.3	0.04	<1	0.9	4.9	<10	<2
AA068550	Soil	0.11	2.8	0.3	<0.05	2.3	23.03	48.5	0.04	<1	1.0	3.6	<10	<2



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Project: None Given

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# CERTIFICATE OF ANALYSIS

# WHI16000178.1

Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
AA068551	Soil	0.39	43.02	32.04	95.1	109	40.3	21.9	515	4.45	22.2	1.4	7.8	15.3	24.5	0.09	1.16	0.55	11	0.32	0.051
AA068552	Soil	0.34	38.52	29.63	84.8	117	38.1	19.4	454	4.07	21.6	1.4	9.2	13.7	61.7	0.09	1.15	0.51	10	1.74	0.048
AA068553	Soil	0.35	43.26	33.34	94.5	121	39.9	23.7	547	4.26	20.7	1.6	6.6	14.4	33.9	0.08	1.01	0.54	10	0.63	0.051
AA068554	Soil	0.35	39.49	34.99	91.5	140	34.8	16.2	334	3.83	17.5	1.6	6.7	10.7	29.6	0.07	0.95	0.47	10	0.44	0.052
AA068555	Soil	0.38	40.90	30.98	85.7	95	37.6	21.3	480	3.95	19.8	1.5	6.7	13.0	55.1	0.06	1.02	0.50	9	1.55	0.049
AA068556	Soil	0.39	37.13	35.72	87.8	155	35.1	21.1	439	3.84	16.8	1.4	6.2	7.5	39.3	0.08	1.21	0.55	9	0.53	0.064
AA068557	Soil	0.43	37.16	32.34	60.7	226	31.1	15.0	286	3.54	20.9	1.8	7.7	4.7	35.8	0.08	2.23	0.48	8	0.65	0.082
AA068558	Soil	0.37	36.34	32.79	52.4	225	34.7	15.7	270	3.73	20.3	1.7	8.1	4.7	41.6	0.09	1.98	0.44	9	0.74	0.083
AA068559	Soil	0.30	18.85	16.83	30.9	107	20.3	7.9	246	2.28	11.3	1.7	5.0	2.5	56.9	0.08	1.18	0.25	7	1.11	0.074
AA068560	Soil	0.26	22.99	24.69	28.3	127	35.8	23.8	551	3.44	25.7	1.5	9.4	15.6	33.5	0.03	2.05	0.37	7	0.66	0.057
AA068561	Soil	0.19	17.84	13.01	36.8	76	27.1	11.5	348	3.04	66.6	1.4	41.8	10.1	16.7	0.03	0.97	0.26	9	0.24	0.030
AA068562	Soil	0.48	21.03	22.55	45.1	89	30.7	14.7	857	3.55	15.8	1.3	4.7	7.3	23.8	0.17	1.15	0.37	15	0.22	0.063
AA068563	Soil	0.25	21.63	25.60	48.3	109	35.6	15.3	526	4.27	18.5	2.5	5.8	8.0	23.8	0.05	1.66	0.42	11	0.41	0.071
AA068564	Soil	0.50	31.25	31.90	31.2	145	43.2	30.4	505	4.57	18.5	2.2	2.1	15.8	115.9	0.06	1.04	0.48	11	3.57	0.069
AA068565	Soil	0.51	55.85	57.64	88.5	199	44.3	53.0	926	4.07	20.2	2.1	6.3	16.5	15.6	0.12	0.88	0.60	11	0.12	0.051
AA068566	Soil	0.45	47.03	48.02	83.7	162	29.7	36.2	643	3.27	8.5	2.2	1.1	16.2	11.0	0.06	0.49	0.38	10	0.08	0.051
AA068567	Soil	0.47	33.24	30.93	50.2	158	35.1	20.5	770	4.27	13.3	1.8	1.6	12.0	33.1	0.08	0.87	0.42	15	0.43	0.096
AA068568	Soil	0.43	33.23	30.04	48.2	151	33.4	22.0	789	4.26	13.2	1.7	1.6	11.9	31.7	0.12	0.91	0.41	15	0.42	0.090
AA068569	Soil	0.37	41.71	50.92	79.5	149	36.7	28.7	725	4.17	29.5	2.1	5.1	17.9	19.7	0.17	0.80	0.43	12	0.21	0.058
AA068570	Soil	0.34	14.07	9.22	35.8	29	8.4	4.9	171	2.01	7.3	1.1	<0.2	3.5	4.6	0.03	0.26	0.20	10	0.02	0.053
AA068571	Soil	0.31	33.49	28.15	62.4	137	29.3	18.2	453	3.15	13.3	1.8	1.9	9.2	25.7	0.09	0.58	0.40	10	0.45	0.053
AA068572	Soil	0.52	48.21	34.76	98.1	195	48.7	20.4	295	4.58	14.5	2.5	1.6	9.0	124.5	0.11	0.96	0.51	7	2.49	0.110
AA068573	Soil	0.36	48.73	35.98	89.5	112	42.3	22.2	433	3.97	15.3	1.6	1.7	13.3	76.8	0.08	0.76	0.55	10	1.99	0.057
AA068574	Soil	0.38	46.74	42.18	91.7	87	42.6	27.1	685	4.20	11.9	1.3	<0.2	16.4	19.3	0.09	0.69	0.57	12	0.21	0.045
AA068575	Soil	0.37	59.76	51.11	104.7	128	42.1	25.8	586	4.28	16.6	1.5	0.3	17.7	29.6	0.10	0.96	0.63	12	0.39	0.050
AA068576	Soil	0.41	54.51	49.34	94.4	84	42.4	28.8	756	4.26	13.0	1.4	0.6	16.4	19.7	0.06	0.68	0.61	13	0.22	0.052
AA068577	Soil	0.42	54.31	49.18	89.4	142	37.0	21.8	696	4.01	12.5	3.5	1.2	14.1	25.9	0.04	0.62	0.59	12	0.36	0.044
AA068578	Soil	0.29	38.43	23.21	84.2	27	33.1	12.0	298	3.62	18.2	1.0	4.3	12.5	6.1	0.04	0.53	0.48	12	0.03	0.040
AA068579	Soil	0.52	50.39	36.24	78.4	60	33.0	27.9	1337	3.74	27.0	0.7	1.2	5.0	5.6	0.05	0.43	0.57	15	0.03	0.098
AA068580	Soil	1.01	39.53	64.17	73.5	50	30.8	21.7	1348	3.94	38.3	0.7	0.3	4.1	4.3	0.06	0.53	0.75	16	0.02	0.093



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Project: None Given

Report Date: September 01, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000178.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA068551	Soil	19.2	19.7	0.70	29.2	0.001	1	1.68	0.002	0.05	<0.1	3.0	0.03	<0.02	17	<0.1	0.07	3.7	0.58	<0.1	0.13
AA068552	Soil	14.4	17.5	0.65	29.5	0.001	1	1.52	0.002	0.04	<0.1	2.8	0.02	<0.02	20	<0.1	0.04	3.8	0.55	<0.1	0.13
AA068553	Soil	15.3	17.7	0.70	30.4	<0.001	1	1.60	0.003	0.04	<0.1	2.8	0.03	<0.02	18	0.2	0.05	3.5	0.66	<0.1	0.14
AA068554	Soil	15.1	17.7	0.61	44.7	0.002	2	1.64	0.004	0.04	<0.1	3.1	0.03	<0.02	13	0.2	<0.02	3.7	0.77	<0.1	0.15
AA068555	Soil	14.1	17.7	0.66	28.0	0.001	1	1.51	0.003	0.03	0.1	2.3	0.03	<0.02	16	0.2	0.07	3.4	0.61	<0.1	0.14
AA068556	Soil	13.9	15.2	0.64	35.1	0.002	2	1.38	0.004	0.04	<0.1	4.0	0.03	0.03	31	0.3	0.05	3.2	0.72	<0.1	0.11
AA068557	Soil	18.0	10.7	0.43	40.7	0.003	2	1.15	0.009	0.04	<0.1	3.1	0.03	0.04	29	0.4	0.05	2.4	0.58	<0.1	0.14
AA068558	Soil	20.2	11.9	0.42	45.0	0.003	2	1.20	0.006	0.04	<0.1	3.5	0.03	0.05	55	0.7	0.03	2.4	0.46	<0.1	0.12
AA068559	Soil	10.6	8.8	0.29	36.3	0.005	2	0.97	0.012	0.03	<0.1	1.6	0.03	0.09	37	0.3	<0.02	2.2	0.37	<0.1	0.11
AA068560	Soil	15.9	12.5	0.46	24.6	0.001	1	1.03	0.002	0.02	<0.1	2.5	0.02	<0.02	22	0.4	0.05	2.3	0.56	<0.1	0.13
AA068561	Soil	12.5	13.0	0.42	44.6	0.002	2	1.41	0.006	0.03	<0.1	2.3	0.03	0.02	25	0.1	<0.02	3.3	1.31	<0.1	0.09
AA068562	Soil	12.7	17.7	0.49	55.6	0.006	2	1.38	0.002	0.03	0.1	2.2	0.05	0.05	28	0.3	0.05	4.0	0.71	<0.1	0.05
AA068563	Soil	18.9	19.1	0.74	32.5	0.001	<1	1.65	0.002	0.03	<0.1	4.5	0.03	0.05	43	0.4	0.07	3.9	0.62	<0.1	0.16
AA068564	Soil	17.6	18.3	0.99	21.4	0.001	1	1.52	0.002	0.03	<0.1	3.5	0.03	<0.02	39	0.5	0.05	3.4	0.47	<0.1	0.20
AA068565	Soil	26.9	20.1	0.75	33.3	0.003	1	1.71	0.003	0.03	<0.1	2.0	0.05	<0.02	19	<0.1	0.02	3.9	0.71	<0.1	0.08
AA068566	Soil	19.8	14.9	0.49	23.7	0.005	1	1.31	0.007	0.03	<0.1	1.6	0.04	<0.02	11	<0.1	0.04	3.7	0.61	<0.1	0.08
AA068567	Soil	28.9	18.2	0.99	50.5	0.007	<1	1.87	0.008	0.03	<0.1	4.6	0.03	0.02	31	0.6	0.07	4.2	0.36	<0.1	0.17
AA068568	Soil	28.1	17.8	0.99	49.9	0.007	2	1.83	0.008	0.03	<0.1	5.0	0.04	0.02	33	0.5	0.06	4.0	0.34	<0.1	0.16
AA068569	Soil	31.1	20.5	0.81	28.0	0.002	1	1.73	0.002	0.04	<0.1	2.9	0.04	<0.02	20	<0.1	0.05	4.0	0.84	<0.1	0.07
AA068570	Soil	22.1	5.2	0.13	15.5	0.004	<1	0.85	0.009	0.03	<0.1	0.7	0.04	0.03	17	0.3	<0.02	2.1	0.70	<0.1	0.02
AA068571	Soil	18.6	14.6	0.48	37.3	0.002	1	1.48	0.006	0.04	<0.1	2.1	0.04	0.03	20	0.2	0.02	3.2	0.63	<0.1	0.12
AA068572	Soil	19.2	12.4	0.39	27.2	<0.001	2	1.04	0.003	0.05	<0.1	2.7	0.05	0.13	48	0.7	0.05	2.4	0.72	<0.1	0.15
AA068573	Soil	14.2	21.5	0.69	21.4	<0.001	<1	1.57	0.002	0.03	<0.1	2.3	0.02	0.04	11	0.1	0.06	4.1	0.49	<0.1	0.15
AA068574	Soil	13.6	26.5	0.81	24.6	0.001	2	1.84	0.003	0.02	<0.1	1.9	0.03	<0.02	11	<0.1	0.02	5.2	0.51	<0.1	0.18
AA068575	Soil	16.5	25.1	0.74	36.1	0.001	1	1.91	0.003	0.04	<0.1	2.7	0.03	<0.02	10	0.4	0.04	5.2	0.80	0.1	0.14
AA068576	Soil	16.0	27.5	0.82	26.7	0.002	<1	1.93	0.003	0.03	<0.1	2.2	0.03	<0.02	10	<0.1	0.05	5.0	0.71	<0.1	0.16
AA068577	Soil	17.1	22.5	0.68	47.3	0.001	<1	1.95	0.005	0.03	<0.1	2.8	0.04	<0.02	25	0.2	0.05	4.9	1.01	<0.1	0.22
AA068578	Soil	17.6	22.9	0.64	46.5	0.001	<1	1.95	0.002	0.05	<0.1	1.3	0.04	<0.02	5	0.3	0.04	5.1	0.54	<0.1	0.06
AA068579	Soil	17.6	23.5	0.86	25.6	0.004	1	1.99	0.004	0.04	<0.1	1.6	0.04	<0.02	20	0.1	0.09	5.1	0.82	<0.1	0.06
AA068580	Soil	12.4	22.4	0.78	25.3	0.004	<1	1.93	0.004	0.03	<0.1	1.0	0.05	0.03	17	0.2	0.09	5.5	0.84	<0.1	0.08



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Project: None Given

Report Date: September 01, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000178.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA068551	Soil	0.02	2.2	0.2	<0.05	8.9	8.13	38.3	0.02	<1	0.5	47.2	<10	3
AA068552	Soil	0.02	1.9	0.2	<0.05	9.0	7.52	26.9	0.02	<1	0.5	41.4	<10	<2
AA068553	Soil	<0.02	2.2	0.2	<0.05	8.3	7.62	29.3	0.02	<1	0.4	43.1	<10	<2
AA068554	Soil	0.08	3.1	0.5	<0.05	7.0	9.78	27.5	0.03	<1	0.8	43.2	<10	2
AA068555	Soil	0.02	2.0	0.4	<0.05	8.4	6.94	28.0	<0.02	<1	0.3	41.3	<10	<2
AA068556	Soil	0.07	2.5	0.3	<0.05	5.8	11.99	25.8	0.05	<1	0.6	37.3	<10	<2
AA068557	Soil	0.14	2.7	0.3	<0.05	5.0	14.69	31.7	0.02	<1	0.4	25.5	<10	<2
AA068558	Soil	0.12	2.5	0.3	<0.05	5.5	16.72	34.2	0.05	<1	0.8	23.5	<10	<2
AA068559	Soil	0.25	2.3	0.3	<0.05	5.0	8.63	19.7	0.02	<1	0.2	16.3	<10	<2
AA068560	Soil	0.04	1.4	0.2	<0.05	9.0	9.62	33.9	<0.02	<1	0.4	27.3	<10	<2
AA068561	Soil	0.10	3.2	0.1	<0.05	4.5	8.34	26.8	0.02	<1	0.4	26.7	<10	<2
AA068562	Soil	0.20	4.5	0.3	<0.05	1.9	8.19	30.1	0.04	<1	0.4	32.9	<10	<2
AA068563	Soil	0.07	2.7	0.2	<0.05	5.2	24.29	37.8	0.07	<1	0.5	44.1	<10	<2
AA068564	Soil	0.05	1.3	0.2	<0.05	14.4	13.05	35.7	0.05	<1	0.3	50.6	<10	<2
AA068565	Soil	0.03	2.3	0.2	<0.05	7.1	8.51	53.4	0.03	<1	0.8	44.9	<10	<2
AA068566	Soil	0.05	2.6	0.2	<0.05	7.7	6.00	42.2	0.03	<1	0.7	30.8	<10	<2
AA068567	Soil	0.15	2.2	0.2	<0.05	8.4	24.20	60.4	0.07	<1	0.4	52.0	<10	<2
AA068568	Soil	0.15	2.1	0.2	<0.05	8.1	22.73	59.7	0.07	<1	0.6	52.2	<10	2
AA068569	Soil	0.04	2.6	0.2	<0.05	6.6	10.47	64.9	0.03	<1	0.6	47.3	<10	<2
AA068570	Soil	0.16	4.0	0.3	<0.05	0.8	2.52	43.9	<0.02	1	0.1	4.3	<10	<2
AA068571	Soil	0.17	3.0	0.2	<0.05	5.5	9.78	36.2	<0.02	<1	0.6	29.4	<10	<2
AA068572	Soil	0.04	2.6	0.2	<0.05	4.8	8.40	33.5	<0.02	<1	0.2	24.8	<10	<2
AA068573	Soil	<0.02	1.4	0.1	<0.05	7.7	6.97	26.0	<0.02	<1	0.2	51.9	<10	<2
AA068574	Soil	<0.02	1.5	<0.1	<0.05	9.9	6.33	24.3	<0.02	1	0.5	67.0	<10	<2
AA068575	Soil	0.02	2.5	0.3	<0.05	7.4	8.57	28.6	0.02	<1	0.3	57.6	<10	<2
AA068576	Soil	0.02	2.1	0.1	<0.05	10.0	6.65	29.1	0.02	<1	0.1	67.5	<10	<2
AA068577	Soil	0.08	3.8	0.2	<0.05	8.0	10.49	31.7	<0.02	<1	0.6	55.0	<10	<2
AA068578	Soil	0.10	4.4	0.2	<0.05	2.6	2.25	33.6	<0.02	<1	0.3	47.5	<10	<2
AA068579	Soil	0.14	4.7	0.2	<0.05	2.4	3.55	32.7	0.02	<1	0.3	52.5	<10	<2
AA068580	Soil	0.16	4.3	0.1	<0.05	2.9	1.99	22.3	0.02	<1	0.2	42.7	<10	<2



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Project: None Given

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# CERTIFICATE OF ANALYSIS

# WHI16000178.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
AA068581	Soil	0.73	20.62	39.36	55.8	113	16.8	15.8	1488	3.59	24.1	1.0	0.8	0.6	7.6	0.12	0.34	0.47	17	0.07	0.163
AA068582	Soil	0.41	24.25	26.94	69.1	47	27.5	10.9	559	3.72	28.3	0.6	0.5	2.9	3.5	0.07	0.34	0.50	15	0.01	0.072
AA068583	Soil	0.21	23.16	50.78	78.2	41	29.4	17.8	476	2.82	322.7	1.0	62.4	10.3	6.6	0.10	0.74	0.33	8	0.03	0.026
AA068584	Soil	0.39	18.94	20.15	58.7	33	24.5	8.6	163	2.53	35.0	0.9	9.5	5.3	6.4	0.04	0.46	0.30	13	0.04	0.045
AA068585	Soil	0.49	10.52	11.34	28.6	16	9.2	3.4	112	1.67	14.6	0.6	0.7	0.3	6.7	0.03	0.27	0.32	19	0.03	0.050
AA068586	Soil	0.46	18.62	22.61	47.6	61	15.6	9.6	337	2.37	45.7	0.8	3.2	1.5	4.6	0.04	0.57	0.26	11	0.03	0.055
AA068587	Soil	0.59	29.83	33.14	58.3	60	21.8	15.5	657	2.42	58.7	1.5	6.6	4.8	11.3	0.08	0.71	0.37	13	0.09	0.067
AA068588	Soil	0.43	45.65	47.79	104.3	73	35.5	25.0	837	3.88	41.2	1.5	1.8	9.0	14.1	0.12	1.29	0.57	10	0.09	0.068
AA068589	Soil	0.56	26.91	28.03	58.2	38	19.0	10.7	398	3.10	26.2	1.0	2.5	2.7	5.9	0.07	1.41	0.48	16	0.04	0.069
AA068590	Soil	0.58	26.02	42.47	66.8	44	22.0	16.3	1419	2.88	37.7	1.1	6.2	7.8	6.1	0.08	0.62	0.39	13	0.03	0.047
AA068591	Soil	0.50	38.45	53.39	82.7	62	22.9	14.0	534	3.28	160.9	1.9	44.4	9.8	3.9	0.07	0.80	0.36	11	0.01	0.061
AA068592	Soil	0.55	44.11	69.76	97.0	174	27.4	20.4	942	3.77	261.8	1.9	43.3	13.6	7.5	0.10	1.06	0.48	10	0.03	0.064
AA068593	Soil	0.78	96.88	88.84	118.5	249	35.7	39.3	1234	5.00	172.8	6.8	30.5	13.7	9.5	0.08	1.20	0.67	12	0.01	0.087
AA068594	Soil	0.42	45.87	49.19	104.6	132	34.4	25.3	825	3.88	95.1	2.4	49.6	10.6	9.9	0.11	1.07	0.50	11	0.08	0.058
AA068595	Soil	0.36	38.27	44.62	93.0	105	31.9	23.9	795	3.50	49.6	2.1	46.3	18.7	13.3	0.06	0.90	0.45	8	0.11	0.039
AA068596	Soil	0.24	24.12	26.95	75.4	82	24.1	19.2	682	3.54	43.1	2.1	18.5	24.6	15.6	0.12	0.54	0.31	8	0.21	0.039
AA068597	Soil	0.44	40.80	28.31	97.7	158	40.6	16.0	311	3.94	18.0	2.5	1.3	4.3	171.2	0.19	1.15	0.44	10	5.48	0.123
AA068598	Soil	0.49	36.92	28.58	81.4	136	41.4	16.0	219	3.99	20.2	3.1	2.3	11.5	394.1	0.11	1.80	0.40	6	11.52	0.094
AA068599	Soil	0.68	73.18	74.86	144.5	245	52.4	39.3	1414	6.29	59.2	4.0	17.4	17.2	24.9	0.21	2.21	0.78	13	0.23	0.093
AA068600	Soil	0.52	39.71	47.61	108.4	74	37.9	23.8	1098	4.64	24.0	1.9	4.9	7.3	11.5	0.15	1.45	0.44	15	0.08	0.082
AA068601	Soil	0.52	38.81	50.64	102.0	196	43.2	29.7	611	4.46	44.1	2.2	15.6	20.7	47.8	0.10	3.57	0.38	5	0.53	0.073
AA068602	Soil	0.52	40.12	44.07	97.1	184	43.3	22.9	499	4.40	29.2	2.8	6.6	21.3	54.2	0.11	2.29	0.42	6	0.57	0.087
AA068603	Soil	0.51	44.32	43.33	101.7	167	44.4	20.8	538	4.14	25.4	2.9	3.2	17.8	53.8	0.16	2.29	0.44	7	0.49	0.091
AA068604	Soil	0.49	43.92	41.66	93.5	170	42.9	23.2	520	4.23	23.1	2.4	4.2	18.6	48.0	0.13	2.06	0.44	8	0.53	0.075
AA068605	Soil	0.43	42.40	38.66	90.1	146	43.1	22.2	438	3.95	20.4	2.2	2.9	17.2	124.1	0.05	1.97	0.43	6	3.02	0.063
AA068606	Soil	0.41	40.35	38.34	94.8	147	39.9	19.6	484	3.67	18.8	1.8	2.8	16.8	51.7	0.10	1.83	0.41	6	0.93	0.063
AA068607	Soil	0.39	38.11	37.01	86.8	147	37.1	18.3	450	3.71	17.6	1.8	2.1	15.9	55.4	0.11	1.65	0.39	6	1.27	0.060
AA068608	Soil	0.36	37.86	39.39	109.9	241	43.0	24.8	786	4.27	49.9	2.2	11.1	20.4	47.3	0.10	2.22	0.38	7	0.37	0.058
AA068609	Soil	0.32	35.20	38.44	89.1	237	35.2	17.8	521	3.66	27.7	3.1	8.0	11.6	59.5	0.07	2.10	0.35	7	0.49	0.054
AA068610	Soil	0.38	28.50	29.99	85.7	168	27.8	12.3	313	3.15	15.8	2.1	2.2	2.2	98.6	0.21	1.24	0.32	7	1.42	0.092



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Project: None Given

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# CERTIFICATE OF ANALYSIS

# WHI16000178.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA068581	Soil	8.1	18.6	0.37	43.1	0.003	2	1.43	0.003	0.04	<0.1	0.4	0.06	0.10	42	0.3	0.12	4.9	0.85	<0.1	<0.02
AA068582	Soil	11.1	21.8	0.69	28.5	0.004	<1	1.74	0.003	0.03	<0.1	0.7	0.04	0.04	23	0.2	0.07	4.8	0.60	<0.1	0.07
AA068583	Soil	18.9	13.7	0.41	24.1	0.001	<1	1.29	0.002	0.03	<0.1	1.1	0.02	<0.02	8	<0.1	0.04	2.9	0.47	<0.1	0.07
AA068584	Soil	16.3	16.4	0.46	25.0	0.007	1	1.35	0.005	0.03	<0.1	0.9	0.05	<0.02	14	0.2	<0.02	3.6	0.70	<0.1	0.03
AA068585	Soil	13.1	12.7	0.20	38.4	0.012	<1	0.98	0.009	0.03	<0.1	0.5	0.06	0.02	<5	0.3	<0.02	4.4	1.06	<0.1	<0.02
AA068586	Soil	9.6	12.0	0.26	28.6	0.006	<1	1.15	0.009	0.03	<0.1	0.6	0.04	0.03	25	0.3	<0.02	3.1	0.53	<0.1	0.04
AA068587	Soil	11.7	13.0	0.34	25.0	0.010	<1	1.12	0.012	0.04	0.1	1.2	0.06	0.03	39	0.5	0.05	3.1	0.73	<0.1	0.02
AA068588	Soil	14.0	16.8	0.36	41.5	0.001	<1	1.37	0.002	0.04	<0.1	1.3	0.06	0.03	21	0.4	0.09	3.5	1.42	<0.1	0.06
AA068589	Soil	12.1	13.6	0.22	34.0	0.004	<1	1.04	0.002	0.04	<0.1	0.6	0.06	0.05	32	0.4	0.02	4.3	0.85	<0.1	<0.02
AA068590	Soil	22.0	13.9	0.32	48.3	0.003	<1	1.29	0.002	0.04	<0.1	1.0	0.05	0.03	35	0.4	0.07	3.3	0.82	<0.1	0.06
AA068591	Soil	14.4	12.2	0.35	25.3	0.002	<1	1.45	0.004	0.03	<0.1	1.1	0.05	0.04	30	0.4	<0.02	3.1	1.00	<0.1	0.15
AA068592	Soil	18.1	14.1	0.40	24.9	0.002	<1	1.44	0.005	0.04	<0.1	1.6	0.05	0.02	24	0.3	0.05	3.4	1.28	<0.1	0.06
AA068593	Soil	14.3	21.3	0.58	30.0	0.001	<1	1.97	0.002	0.04	<0.1	1.7	0.09	0.05	37	0.7	<0.02	4.4	1.86	<0.1	0.26
AA068594	Soil	12.7	18.6	0.53	28.6	0.001	<1	1.61	0.002	0.04	<0.1	1.5	0.05	0.03	28	0.2	<0.02	3.7	1.30	<0.1	0.07
AA068595	Soil	16.6	12.6	0.39	25.0	0.001	<1	1.16	0.002	0.03	<0.1	1.9	0.03	<0.02	20	0.2	0.05	2.6	0.88	<0.1	0.06
AA068596	Soil	30.2	11.1	0.44	28.9	0.001	<1	1.44	0.003	0.03	<0.1	2.1	0.03	<0.02	24	0.4	0.04	2.8	1.02	<0.1	0.06
AA068597	Soil	38.5	10.1	0.38	37.8	0.001	1	0.97	0.004	0.05	<0.1	3.9	0.04	0.04	54	0.4	0.08	1.9	0.48	<0.1	0.12
AA068598	Soil	21.7	6.9	0.25	22.7	0.001	<1	0.65	0.004	0.04	<0.1	4.4	0.04	0.03	53	0.7	0.08	1.2	0.53	<0.1	0.09
AA068599	Soil	14.9	23.1	0.55	33.9	0.002	<1	1.68	0.002	0.05	<0.1	6.1	0.05	0.03	43	0.3	0.04	4.3	1.31	<0.1	0.14
AA068600	Soil	13.7	20.2	0.43	45.9	0.003	<1	1.47	0.003	0.04	<0.1	3.4	0.05	0.03	31	<0.1	0.04	3.5	1.07	<0.1	0.06
AA068601	Soil	13.5	5.1	0.23	34.4	0.001	<1	0.85	0.003	0.03	<0.1	4.1	0.04	0.04	31	<0.1	0.07	1.4	1.21	<0.1	0.14
AA068602	Soil	13.8	5.5	0.23	36.4	0.002	<1	0.84	0.006	0.04	<0.1	3.5	0.04	0.07	50	0.7	0.08	1.5	1.04	<0.1	0.18
AA068603	Soil	24.0	7.0	0.29	55.7	0.004	<1	1.03	0.008	0.04	<0.1	4.0	0.04	0.06	40	0.1	0.03	1.7	0.66	<0.1	0.18
AA068604	Soil	23.9	11.0	0.39	45.1	0.003	<1	1.17	0.006	0.04	<0.1	3.8	0.04	0.02	29	0.3	0.02	2.5	0.60	<0.1	0.15
AA068605	Soil	18.0	9.8	0.34	24.3	0.001	<1	0.87	0.002	0.03	<0.1	3.2	0.03	<0.02	40	0.3	0.04	2.0	0.48	<0.1	0.18
AA068606	Soil	21.8	9.6	0.31	40.9	0.003	<1	0.98	0.007	0.04	<0.1	3.6	0.04	<0.02	30	0.2	0.02	2.0	0.50	<0.1	0.18
AA068607	Soil	20.1	8.8	0.30	39.0	0.002	<1	0.99	0.006	0.04	<0.1	3.2	0.03	<0.02	23	0.2	0.05	2.0	0.49	<0.1	0.14
AA068608	Soil	18.8	10.6	0.35	39.1	<0.001	<1	1.15	0.004	0.05	<0.1	4.1	0.04	<0.02	29	<0.1	<0.02	2.1	1.08	<0.1	0.14
AA068609	Soil	18.5	7.7	0.26	78.8	0.002	<1	1.38	0.013	0.04	<0.1	4.0	0.05	0.03	42	0.3	<0.02	2.7	1.13	<0.1	0.14
AA068610	Soil	23.9	6.3	0.13	52.9	0.002	1	0.83	0.006	0.05	<0.1	2.0	0.04	0.10	67	0.5	<0.02	1.4	0.40	<0.1	0.05



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Project: None Given

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA068581	Soil	0.15	6.6	0.2	<0.05	0.7	1.69	14.1	<0.02	<1	<0.1	21.2	<10	<2
AA068582	Soil	0.19	3.8	0.2	<0.05	2.0	1.51	19.7	<0.02	<1	0.2	43.4	<10	<2
AA068583	Soil	0.08	2.7	0.2	<0.05	2.2	2.48	38.7	<0.02	<1	0.2	26.3	<10	<2
AA068584	Soil	0.24	4.1	0.2	<0.05	1.3	2.19	31.1	<0.02	<1	<0.1	26.5	<10	<2
AA068585	Soil	0.26	6.8	0.5	<0.05	0.2	1.44	25.3	<0.02	<1	<0.1	10.9	<10	<2
AA068586	Soil	0.17	3.4	0.2	<0.05	1.3	1.79	18.4	<0.02	<1	<0.1	17.5	<10	<2
AA068587	Soil	0.20	4.7	0.3	<0.05	1.0	4.25	23.2	0.02	2	0.4	19.3	<10	<2
AA068588	Soil	0.07	5.2	0.2	<0.05	2.5	3.35	27.8	0.02	<1	0.2	26.8	<10	<2
AA068589	Soil	0.23	5.5	0.3	<0.05	0.9	2.16	22.6	<0.02	<1	<0.1	16.0	<10	<2
AA068590	Soil	0.17	4.5	0.2	<0.05	1.5	3.25	43.2	0.02	1	0.3	23.5	<10	3
AA068591	Soil	0.15	4.1	0.2	<0.05	4.3	2.87	28.7	0.03	<1	0.2	22.3	<10	<2
AA068592	Soil	0.11	4.3	0.3	<0.05	2.2	3.99	37.3	0.03	<1	0.3	24.8	<10	<2
AA068593	Soil	0.07	4.5	0.1	<0.05	8.1	5.11	27.4	0.04	<1	0.7	42.6	<10	<2
AA068594	Soil	0.06	4.0	0.2	<0.05	2.5	4.02	25.3	0.03	<1	0.3	37.0	<10	<2
AA068595	Soil	0.02	2.3	<0.1	<0.05	5.0	4.72	33.2	0.02	<1	0.2	23.9	<10	3
AA068596	Soil	0.03	2.6	0.1	<0.05	4.3	6.02	60.1	0.03	<1	0.2	19.8	<10	4
AA068597	Soil	0.07	2.7	0.3	<0.05	4.3	17.87	60.7	0.05	<1	0.6	20.4	<10	<2
AA068598	Soil	0.04	1.8	0.2	<0.05	7.2	10.15	39.0	0.04	<1	0.3	11.0	<10	<2
AA068599	Soil	0.06	3.4	0.2	<0.05	7.3	21.18	27.4	0.07	<1	0.8	43.3	<10	<2
AA068600	Soil	0.12	4.5	0.2	<0.05	2.5	11.48	29.6	0.06	<1	0.1	31.2	<10	<2
AA068601	Soil	<0.02	2.0	0.2	<0.05	12.5	12.04	30.6	0.02	<1	0.7	7.1	<10	<2
AA068602	Soil	0.02	2.4	0.3	<0.05	14.5	11.14	27.8	0.03	<1	0.8	8.7	<10	5
AA068603	Soil	0.07	2.6	0.2	<0.05	13.7	14.68	43.3	0.03	<1	0.6	13.3	<10	<2
AA068604	Soil	0.03	2.5	0.3	<0.05	14.0	12.95	43.3	0.03	<1	0.4	22.9	<10	<2
AA068605	Soil	0.02	1.6	0.2	<0.05	14.1	11.50	35.1	<0.02	<1	0.2	21.3	<10	<2
AA068606	Soil	0.06	2.4	0.3	<0.05	12.8	12.71	42.3	0.03	<1	0.4	19.3	<10	<2
AA068607	Soil	0.05	2.2	0.2	<0.05	11.8	12.04	37.7	<0.02	<1	0.3	18.6	<10	<2
AA068608	Soil	0.02	2.5	0.3	<0.05	12.2	13.42	39.7	0.03	<1	0.3	17.5	<10	<2
AA068609	Soil	0.21	3.8	0.3	<0.05	7.5	14.59	36.7	0.04	<1	0.4	12.5	<10	<2
AA068610	Soil	0.21	3.3	0.2	<0.05	3.0	12.35	40.6	0.03	<1	0.4	7.0	<10	<2



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Project: None Given

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# CERTIFICATE OF ANALYSIS

# WHI16000178.1

Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
AA068611	Soil	0.47	35.60	40.08	95.2	219	35.8	16.7	572	3.92	19.9	1.9	5.0	13.3	54.6	0.14	1.75	0.38	7	0.76	0.094
AA068612	Soil	0.37	27.45	32.66	79.2	100	32.0	14.0	297	3.50	19.4	2.1	3.7	6.7	26.3	0.09	1.43	0.34	9	0.26	0.064
AA068613	Soil	0.51	29.41	35.96	99.0	253	26.4	10.2	497	3.13	17.4	2.3	2.4	1.2	233.3	0.35	1.48	0.32	11	7.68	0.152
AA068614	Soil	0.43	30.83	30.08	90.9	195	34.2	13.5	330	3.65	41.2	2.0	57.0	5.4	47.7	0.20	2.50	0.37	10	1.24	0.076
AA068615	Soil	0.60	38.77	35.60	337.1	147	32.6	16.4	831	4.73	36.3	1.9	3.4	4.3	105.9	0.53	1.65	0.43	12	4.22	0.109
AA068616	Soil	0.30	12.60	9.60	33.0	60	8.4	4.2	153	1.60	16.3	0.5	0.9	0.5	8.1	0.13	0.61	0.17	10	0.09	0.066
AA068617	Soil	0.22	13.66	10.30	32.7	68	11.1	4.3	91	1.47	8.1	0.8	1.4	1.3	29.8	0.04	0.50	0.16	8	0.58	0.068
AA068618	Soil	0.43	35.28	35.68	87.2	204	36.3	16.4	463	4.16	24.1	1.9	9.2	7.5	49.1	0.11	1.91	0.46	8	0.82	0.083
AA068619	Soil	0.35	31.92	22.11	80.8	145	25.8	9.3	181	2.66	9.2	1.3	<0.2	5.1	182.4	0.20	0.63	0.31	10	3.89	0.154
AA068620	Soil	0.31	22.13	16.43	60.9	187	19.2	7.0	304	2.10	7.1	1.3	0.6	1.2	64.5	0.11	0.31	0.26	8	0.98	0.145
AA068621	Soil	0.80	44.63	46.97	109.5	232	41.5	18.9	585	4.10	199.5	1.9	30.4	8.2	25.1	0.11	1.58	0.49	12	0.29	0.060
AA068622	Soil	0.58	58.20	35.44	105.1	108	49.3	20.4	840	5.11	28.9	1.5	3.6	8.7	12.1	0.04	1.57	0.70	11	0.28	0.042
AA068623	Soil	0.91	63.13	50.63	109.4	126	54.1	25.1	1265	5.06	34.8	1.3	4.5	9.1	13.1	0.15	2.31	0.77	11	0.46	0.059
AA068624	Soil	0.49	50.71	35.17	104.0	80	45.1	21.5	731	4.45	10.5	1.8	0.2	5.7	5.1	0.09	0.32	0.46	18	0.16	0.076
AA068625	Soil	0.40	39.76	31.29	110.6	72	46.3	20.0	800	4.87	7.6	1.7	<0.2	6.3	3.9	0.08	0.26	0.47	19	0.11	0.075
AA068626	Soil	1.55	78.53	87.93	113.7	183	63.4	55.5	1458	5.74	113.2	1.6	1.2	8.8	27.8	0.11	2.28	1.77	13	1.79	0.056
AA068627	Soil	1.04	67.04	44.55	100.4	77	50.0	28.1	1095	5.16	46.0	1.9	1.3	9.4	8.5	0.06	1.31	1.08	13	0.17	0.033
AA068628	Soil	0.61	59.46	42.83	114.3	88	44.4	19.0	694	4.63	25.1	1.4	<0.2	7.7	6.9	0.09	0.54	0.98	16	0.18	0.069
AA068629	Soil	0.90	85.00	52.46	104.9	345	47.6	28.4	643	5.07	26.0	5.7	1.0	9.2	4.2	0.07	0.51	0.74	20	0.05	0.090
AA068630	Soil	0.99	143.14	77.68	113.1	182	55.8	60.0	1167	5.16	22.3	6.6	<0.2	11.5	7.5	0.14	0.74	0.58	19	0.09	0.076
AA068631	Soil	1.22	73.86	55.03	96.7	106	59.0	35.4	1319	5.36	49.4	1.4	<0.2	11.1	10.1	0.09	1.86	0.98	12	0.46	0.036
AA068632	Soil	0.60	34.34	26.70	89.4	78	37.3	11.5	544	4.67	21.3	1.3	<0.2	6.2	4.9	0.14	0.44	0.53	20	0.03	0.058
AA068633	Soil	0.55	41.44	26.95	99.9	43	47.6	18.6	767	4.90	25.6	1.1	1.0	5.5	4.3	0.09	0.42	0.45	20	0.06	0.064
AA068634	Soil	0.54	35.48	51.48	91.5	47	35.8	19.9	755	3.77	9.1	1.3	1.1	9.5	7.7	0.12	0.58	0.50	16	0.07	0.067
AA068635	Soil	0.42	53.65	56.93	103.9	155	43.8	35.1	1433	4.57	7.3	2.3	<0.2	23.5	20.9	0.12	0.43	0.62	11	0.23	0.046
AA068636	Soil	0.39	43.69	50.62	96.4	126	38.2	25.8	1123	4.28	8.1	1.8	<0.2	21.3	16.8	0.15	0.66	0.58	11	0.20	0.049
AA068637	Soil	0.53	43.22	47.15	96.6	169	41.6	21.3	630	4.15	12.7	1.5	<0.2	20.0	59.9	0.10	2.41	0.53	8	1.11	0.047
AA068638	Soil	0.44	44.97	47.57	95.4	150	40.3	23.3	926	4.36	8.9	1.6	0.8	21.4	23.9	0.13	0.62	0.56	10	0.27	0.059
AA068639	Soil	0.38	37.32	38.16	84.0	115	37.1	21.4	721	3.90	10.1	1.2	1.2	17.9	22.1	0.07	0.70	0.48	10	0.24	0.048
AA068640	Soil	0.45	39.88	45.06	91.0	124	37.8	21.5	814	4.06	11.6	1.3	2.1	18.1	20.1	0.12	0.76	0.51	12	0.21	0.049



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Project: None Given

Report Date: September 01, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000178.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
AA068611	Soil	27.4	7.6	0.26	40.1	0.004	<1	0.87	0.007	0.05	<0.1	4.9	0.04	0.03	50	<0.1	0.02	1.5	0.65	<0.1	0.11
AA068612	Soil	21.4	10.1	0.26	37.3	0.002	1	1.11	0.006	0.04	<0.1	3.3	0.05	0.05	38	0.1	<0.02	2.3	0.83	<0.1	0.11
AA068613	Soil	39.0	9.9	0.17	68.3	0.005	2	0.91	0.004	0.03	0.1	3.0	0.04	0.10	67	0.5	0.07	1.7	0.16	<0.1	0.05
AA068614	Soil	23.2	10.5	0.25	37.5	0.005	<1	0.82	0.002	0.04	0.3	3.4	0.03	0.04	45	0.2	0.04	1.7	0.40	<0.1	0.10
AA068615	Soil	18.6	15.6	0.39	97.7	0.002	2	1.76	0.003	0.09	0.2	2.4	0.07	0.09	75	0.5	0.07	3.6	0.63	<0.1	0.14
AA068616	Soil	5.3	4.8	0.08	27.7	0.004	<1	0.65	0.009	0.03	<0.1	0.3	0.04	0.06	30	0.2	<0.02	2.5	0.65	<0.1	<0.02
AA068617	Soil	7.3	5.4	0.12	46.8	0.007	<1	0.94	0.032	0.03	0.2	0.9	0.05	0.05	25	<0.1	<0.02	2.0	0.53	<0.1	0.02
AA068618	Soil	18.2	10.0	0.27	59.5	0.003	<1	1.16	0.008	0.05	<0.1	3.3	0.05	0.05	48	<0.1	0.06	2.5	0.59	0.1	0.14
AA068619	Soil	30.0	7.2	0.21	33.2	0.006	<1	0.65	0.021	0.05	<0.1	4.1	0.03	0.02	26	<0.1	0.02	1.4	0.43	<0.1	0.04
AA068620	Soil	25.5	6.0	0.22	51.0	0.006	<1	0.91	0.024	0.04	<0.1	1.9	0.04	0.07	46	0.2	<0.02	1.9	0.42	<0.1	0.07
AA068621	Soil	22.3	22.2	0.68	47.3	0.002	<1	1.81	0.006	0.04	<0.1	2.8	0.04	<0.02	26	<0.1	0.05	4.5	1.08	<0.1	0.12
AA068622	Soil	15.5	21.7	0.70	23.5	<0.001	<1	1.70	0.005	0.03	<0.1	4.7	0.03	0.02	41	0.2	0.09	4.4	1.16	<0.1	0.17
AA068623	Soil	14.5	21.6	0.73	19.4	0.001	3	1.69	0.003	0.02	<0.1	4.6	0.03	0.02	44	<0.1	0.09	4.5	1.01	<0.1	0.15
AA068624	Soil	11.4	35.6	1.03	14.1	0.002	<1	2.50	0.005	0.03	<0.1	2.1	0.02	0.02	17	<0.1	0.03	6.8	2.40	<0.1	0.16
AA068625	Soil	9.4	41.1	1.16	11.4	0.001	1	2.69	0.004	0.02	<0.1	2.6	<0.02	0.03	22	<0.1	0.04	7.2	1.16	<0.1	0.22
AA068626	Soil	10.1	24.5	0.87	17.5	<0.001	<1	2.00	0.004	0.05	<0.1	5.0	0.04	0.05	37	<0.1	0.28	5.2	1.98	<0.1	0.25
AA068627	Soil	13.2	25.3	0.90	19.5	<0.001	2	2.10	0.003	0.03	<0.1	4.4	0.02	<0.02	24	<0.1	0.17	5.6	1.41	<0.1	0.19
AA068628	Soil	11.3	31.0	0.95	21.7	0.001	<1	2.34	0.003	0.03	<0.1	3.8	0.03	0.04	35	<0.1	0.10	6.8	2.46	<0.1	0.16
AA068629	Soil	20.6	37.3	1.06	17.1	0.002	<1	2.62	0.005	0.03	<0.1	3.0	0.07	0.02	27	<0.1	0.05	7.5	8.77	<0.1	0.16
AA068630	Soil	18.3	38.7	1.10	21.2	0.001	<1	2.70	0.005	0.03	<0.1	3.5	0.06	0.02	32	0.1	0.07	7.2	6.38	<0.1	0.06
AA068631	Soil	8.9	23.3	0.86	14.2	<0.001	<1	1.87	0.004	0.03	<0.1	4.0	0.03	0.07	26	<0.1	0.14	5.1	1.66	<0.1	0.22
AA068632	Soil	14.7	33.4	0.86	21.0	0.004	<1	2.27	0.004	0.03	<0.1	1.8	0.04	0.03	46	0.2	0.04	7.2	2.86	<0.1	0.13
AA068633	Soil	15.6	37.5	1.15	17.3	0.003	<1	2.69	0.002	0.02	<0.1	2.0	0.02	<0.02	27	<0.1	0.05	6.9	1.40	<0.1	0.16
AA068634	Soil	11.3	22.5	0.64	36.0	0.006	1	1.79	0.002	0.03	<0.1	1.8	0.04	0.04	63	<0.1	0.05	4.6	0.78	<0.1	0.14
AA068635	Soil	12.9	23.5	0.81	33.6	0.001	<1	1.96	0.002	0.04	<0.1	3.3	0.04	<0.02	53	0.2	0.06	4.5	0.70	<0.1	0.20
AA068636	Soil	12.0	21.6	0.76	34.5	0.002	<1	1.91	0.003	0.03	<0.1	3.0	0.04	<0.02	31	<0.1	0.03	4.7	0.60	<0.1	0.15
AA068637	Soil	8.3	18.4	0.66	27.1	0.001	<1	1.56	0.002	0.04	<0.1	3.0	0.04	<0.02	39	<0.1	0.02	3.7	0.63	<0.1	0.20
AA068638	Soil	13.3	21.4	0.75	29.2	0.002	<1	1.77	0.003	0.03	<0.1	3.6	0.04	<0.02	33	<0.1	0.04	4.3	0.56	<0.1	0.20
AA068639	Soil	12.2	20.2	0.68	26.8	0.001	<1	1.60	0.002	0.03	<0.1	2.5	0.03	<0.02	21	<0.1	0.04	4.1	0.42	<0.1	0.18
AA068640	Soil	18.1	22.2	0.72	30.4	0.002	<1	1.77	0.002	0.03	<0.1	2.7	0.04	<0.02	38	<0.1	0.10	4.6	0.47	<0.1	0.16



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Project: None Given

Report Date: September 01, 2016

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# CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA068611	Soil	0.11	3.1	0.3	<0.05	6.4	18.27	50.6	0.04	<1	0.3	12.0	<10	<2
AA068612	Soil	0.17	3.5	0.4	<0.05	4.3	15.11	47.6	0.06	<1	0.5	15.5	<10	<2
AA068613	Soil	0.39	2.7	0.6	<0.05	2.1	26.19	65.8	0.06	<1	1.1	6.2	<10	<2
AA068614	Soil	0.23	2.5	0.6	<0.05	3.6	14.39	40.9	0.05	<1	0.6	12.7	<10	<2
AA068615	Soil	0.20	6.3	0.5	<0.05	4.1	16.72	38.6	0.07	<1	0.8	26.6	<10	<2
AA068616	Soil	0.21	3.7	0.4	<0.05	0.8	1.28	10.4	<0.02	<1	0.1	2.4	<10	<2
AA068617	Soil	0.30	3.1	0.3	<0.05	1.5	4.25	15.3	<0.02	<1	0.2	8.7	<10	<2
AA068618	Soil	0.22	3.3	0.7	<0.05	6.3	15.83	31.5	0.04	<1	0.5	15.7	<10	<2
AA068619	Soil	0.13	3.0	0.5	<0.05	3.1	12.67	47.2	0.03	<1	0.6	9.8	<10	<2
AA068620	Soil	0.29	3.9	0.4	<0.05	2.8	9.87	43.9	0.03	<1	0.2	10.5	<10	<2
AA068621	Soil	0.10	3.3	0.7	<0.05	4.1	7.76	39.4	0.03	<1	0.5	48.9	<10	<2
AA068622	Soil	0.02	2.2	0.6	<0.05	5.7	11.34	26.3	0.05	<1	0.3	49.1	<10	<2
AA068623	Soil	0.04	1.5	0.4	<0.05	6.1	10.37	26.3	0.08	<1	0.5	51.0	<10	<2
AA068624	Soil	0.05	2.2	0.8	<0.05	5.5	3.01	19.1	0.02	<1	0.3	76.2	<10	<2
AA068625	Soil	0.02	1.5	0.6	<0.05	6.8	2.41	16.3	0.02	<1	<0.1	82.3	<10	<2
AA068626	Soil	0.02	2.1	0.6	<0.05	8.4	9.81	19.3	0.05	<1	0.5	60.6	<10	<2
AA068627	Soil	0.03	2.1	0.3	<0.05	7.4	9.23	21.9	0.04	1	0.5	61.4	<10	<2
AA068628	Soil	0.04	2.9	0.4	<0.05	5.7	8.53	18.4	0.03	<1	0.6	67.1	<10	2
AA068629	Soil	0.07	4.2	0.3	<0.05	6.1	4.20	32.8	0.03	1	0.4	74.6	<10	<2
AA068630	Soil	0.03	3.1	0.6	<0.05	5.7	6.35	31.1	0.03	<1	0.7	83.5	<10	3
AA068631	Soil	<0.02	1.5	0.4	<0.05	12.6	7.10	16.9	0.03	<1	0.3	57.9	<10	<2
AA068632	Soil	0.22	4.3	0.3	<0.05	3.9	1.82	24.1	0.02	<1	0.3	64.5	<10	<2
AA068633	Soil	0.10	2.5	0.2	<0.05	5.9	2.35	27.5	0.02	<1	0.2	84.9	<10	<2
AA068634	Soil	0.22	4.2	0.5	<0.05	4.9	5.52	24.7	0.02	<1	0.5	52.9	<10	2
AA068635	Soil	0.03	2.5	0.5	<0.05	10.9	13.31	24.1	0.03	<1	0.6	60.4	<10	2
AA068636	Soil	0.02	2.3	0.9	<0.05	10.2	10.94	24.4	0.03	<1	0.6	57.2	<10	2
AA068637	Soil	<0.02	2.0	0.6	<0.05	13.0	10.06	17.4	0.03	<1	0.8	50.0	<10	<2
AA068638	Soil	0.02	2.2	0.7	<0.05	12.3	10.94	27.0	0.04	<1	0.5	56.8	<10	<2
AA068639	Soil	0.02	1.7	0.4	<0.05	11.0	9.22	24.4	0.02	<1	0.5	53.6	<10	<2
AA068640	Soil	0.02	2.2	0.9	<0.05	8.1	10.27	34.3	0.02	2	0.5	57.8	<10	5



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Project: None Given

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# CERTIFICATE OF ANALYSIS

# WHI16000178.1

Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
MDL		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
AA068641	Soil	0.37	32.37	36.87	82.1	80	34.6	18.4	657	3.78	9.2	1.1	2.3	14.9	15.0	0.11	0.57	0.48	12	0.16	0.048
AA068642	Soil	0.68	66.00	54.53	98.3	180	48.2	29.7	705	4.80	18.6	4.3	3.0	10.2	25.7	0.14	0.72	1.01	13	0.31	0.074
AA068643	Soil	0.46	51.79	40.16	88.2	101	41.8	21.5	706	4.30	13.9	3.3	<0.2	10.8	15.3	0.06	0.61	0.59	15	0.17	0.061
AA068644	Soil	0.64	41.85	40.75	91.8	92	35.9	18.5	573	4.06	11.1	2.5	<0.2	9.0	10.9	0.14	0.68	0.60	13	0.15	0.072
AA068645	Soil	0.57	45.09	36.02	93.5	85	42.6	19.3	534	4.21	12.3	2.7	<0.2	11.0	12.1	0.07	0.64	0.57	13	0.15	0.048
AA068646	Soil	0.37	26.27	19.67	67.2	38	28.2	10.2	280	3.29	11.2	0.9	1.1	7.9	4.5	0.04	0.28	0.43	13	0.03	0.055
AA068647	Soil	0.34	23.01	18.22	65.6	34	27.4	8.8	264	3.32	9.5	0.9	3.0	7.3	4.1	0.03	0.21	0.43	14	0.02	0.053
AA068648	Soil	0.38	42.46	28.94	90.4	25	40.7	14.5	336	4.34	13.1	1.4	2.8	14.6	5.3	0.03	0.35	0.53	14	0.03	0.038
AA068649	Soil	0.28	22.67	16.71	66.2	27	29.4	7.3	180	3.65	14.8	0.9	2.4	10.4	2.9	0.03	0.21	0.38	14	0.01	0.040
AA068650	Soil	1.02	23.41	28.42	61.3	49	17.9	10.8	422	3.21	72.7	1.1	33.6	3.2	6.2	0.09	1.05	0.54	22	0.04	0.080
AA068651	Soil	1.16	21.50	26.04	97.6	17	27.9	13.4	489	3.91	34.4	1.2	2.0	4.0	7.9	0.11	0.63	0.47	33	0.03	0.045
AA068652	Soil	0.49	29.91	36.74	65.4	89	23.9	18.0	650	2.65	107.7	2.0	12.7	9.0	9.3	0.11	0.67	0.31	12	0.08	0.067
AA068653	Soil	1.00	27.75	32.51	65.6	75	22.9	11.3	403	3.84	1103.2	1.4	240.4	5.2	7.7	0.19	1.70	0.69	23	0.03	0.067
AA068654	Soil	0.71	54.35	60.87	107.7	163	37.0	23.8	605	3.87	133.9	3.7	34.3	10.5	13.4	0.10	0.84	0.53	19	0.11	0.070
AA068655	Soil	0.42	21.75	13.56	42.6	28	18.7	6.4	207	2.76	13.8	0.6	<0.2	2.7	4.5	0.05	0.35	0.54	14	0.03	0.070
AA068656	Soil	0.52	36.29	51.16	80.5	120	35.3	21.5	697	3.36	94.8	1.4	12.4	12.3	20.2	0.13	2.08	0.40	9	0.23	0.098
AA068657	Soil	0.51	47.87	49.80	103.6	163	36.3	23.2	694	3.91	68.7	3.6	9.0	11.4	21.9	0.12	0.99	0.51	17	0.21	0.074
AA068658	Soil	0.90	73.76	68.38	92.4	186	45.5	26.3	2028	4.55	37.5	2.4	2.9	4.1	11.8	0.10	1.33	1.02	13	0.51	0.088
AA068659	Soil	0.98	67.75	40.33	102.1	146	49.7	21.5	714	4.95	33.4	3.3	4.2	10.3	5.5	0.07	2.14	0.69	12	0.17	0.037
AA068660	Soil	0.92	86.83	47.88	117.9	183	56.1	32.8	1401	5.37	35.4	3.0	3.2	12.6	6.8	0.13	1.98	0.83	13	0.20	0.050
AA068661	Soil	0.97	47.98	46.19	61.9	153	30.1	21.8	1821	3.44	28.4	1.7	3.0	2.1	4.9	0.07	0.77	0.42	14	0.05	0.146
AA068662	Soil	1.24	66.28	98.94	84.6	110	47.5	62.3	3553	4.69	52.0	1.5	1.0	4.1	6.6	0.09	1.06	0.68	17	0.07	0.121
AA068663	Soil	1.52	83.26	99.43	93.6	129	52.7	64.4	4593	4.83	97.3	2.2	5.5	6.3	8.2	0.11	0.99	0.66	17	0.08	0.089
AA068664	Soil	1.18	66.47	91.08	89.5	97	50.6	47.1	6321	5.22	33.5	1.7	1.7	5.9	11.8	0.15	0.90	0.54	20	0.11	0.088
AA068665	Soil	1.09	66.24	81.55	87.2	94	44.6	44.9	3868	4.76	40.5	1.1	4.4	5.8	5.4	0.11	0.41	0.74	18	0.06	0.078
AA068666	Soil	1.08	72.71	55.40	95.0	101	53.5	39.4	3659	4.82	51.4	2.1	9.2	7.3	10.2	0.12	1.93	0.73	15	0.21	0.077
AA068667	Soil	0.64	42.64	35.07	62.2	108	29.6	18.0	2566	3.81	5.5	0.7	7.1	2.0	3.1	0.09	0.17	0.48	17	0.01	0.170
AA068668	Soil	0.63	32.96	21.24	52.7	82	23.3	10.5	478	2.68	16.5	1.0	9.0	0.8	6.7	0.08	0.38	0.34	18	0.07	0.078
AA068669	Soil	0.73	31.35	26.82	93.3	59	44.1	24.7	1781	5.01	21.2	0.7	2.0	2.9	5.2	0.11	0.42	0.57	21	0.04	0.097
AA068670	Soil	1.27	32.28	44.34	72.6	102	33.1	21.0	2626	5.20	17.2	0.7	1.2	2.3	3.2	0.10	0.31	0.56	23	0.02	0.199



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Project: None Given

Report Date: September 01, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000178.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
AA068641	Soil	14.8	22.4	0.73	25.0	0.002	<1	1.71	0.002	0.02	<0.1	2.1	0.03	<0.02	40	<0.1	0.11	4.6	0.33	<0.1	0.14
AA068642	Soil	13.0	25.0	0.73	31.5	0.002	<1	1.92	0.004	0.03	<0.1	3.2	0.03	0.03	48	0.3	0.17	5.1	0.79	<0.1	0.10
AA068643	Soil	13.2	26.7	0.78	36.1	0.002	<1	2.09	0.003	0.03	<0.1	2.3	0.04	0.02	24	<0.1	0.03	5.4	0.84	<0.1	0.13
AA068644	Soil	11.8	24.7	0.70	33.7	0.002	<1	1.89	0.002	0.03	<0.1	2.0	0.04	0.04	17	<0.1	0.04	4.6	0.90	<0.1	0.13
AA068645	Soil	16.3	25.8	0.76	28.4	0.002	<1	1.89	0.003	0.03	<0.1	2.4	0.03	<0.02	17	<0.1	0.03	5.3	0.62	<0.1	0.12
AA068646	Soil	15.4	22.3	0.65	29.9	0.004	<1	1.90	0.006	0.04	<0.1	1.3	0.05	<0.02	7	<0.1	0.02	5.2	0.66	<0.1	0.06
AA068647	Soil	14.4	22.7	0.66	27.5	0.004	1	1.90	0.005	0.04	<0.1	1.1	0.04	<0.02	11	<0.1	0.03	5.2	0.64	<0.1	0.05
AA068648	Soil	19.9	28.1	0.88	30.6	0.001	<1	2.30	0.002	0.04	<0.1	1.6	0.04	<0.02	11	<0.1	0.02	5.6	0.52	<0.1	0.07
AA068649	Soil	17.0	23.7	0.73	27.8	0.002	<1	1.96	0.002	0.04	<0.1	1.4	0.04	<0.02	11	0.2	0.05	4.9	0.57	<0.1	0.05
AA068650	Soil	14.2	18.6	0.37	27.2	0.017	1	1.31	0.008	0.04	0.1	1.3	0.08	0.04	26	<0.1	0.05	4.6	1.22	<0.1	<0.02
AA068651	Soil	19.5	25.6	0.60	41.4	0.022	1	1.72	0.003	0.05	0.3	1.7	0.09	0.03	15	0.4	0.08	5.7	1.25	<0.1	<0.02
AA068652	Soil	14.4	13.4	0.31	34.0	0.007	<1	1.30	0.012	0.04	<0.1	1.9	0.06	0.04	36	0.3	0.02	3.0	0.91	<0.1	<0.02
AA068653	Soil	19.2	18.4	0.38	37.4	0.015	<1	1.46	0.006	0.04	0.2	1.8	0.08	0.04	17	0.4	0.09	4.7	1.06	<0.1	<0.02
AA068654	Soil	16.2	21.5	0.48	50.3	0.007	<1	1.69	0.003	0.05	<0.1	2.9	0.06	0.02	25	<0.1	0.03	4.5	1.83	<0.1	0.05
AA068655	Soil	11.0	14.0	0.43	28.4	0.007	1	1.29	0.008	0.03	<0.1	0.8	0.05	0.03	11	<0.1	0.08	4.2	0.62	<0.1	<0.02
AA068656	Soil	18.2	14.4	0.33	27.8	0.006	<1	1.06	0.005	0.02	<0.1	2.0	0.05	<0.02	19	<0.1	0.04	2.8	0.66	<0.1	0.04
AA068657	Soil	19.5	20.3	0.48	42.0	0.007	<1	1.51	0.004	0.04	<0.1	3.2	0.05	0.03	19	0.1	0.05	4.0	1.22	<0.1	0.14
AA068658	Soil	8.8	25.1	0.79	19.0	0.002	<1	1.88	0.004	0.03	<0.1	3.0	0.02	0.06	22	<0.1	0.20	5.1	1.53	<0.1	0.14
AA068659	Soil	15.8	24.2	0.74	15.1	<0.001	1	1.76	0.004	0.03	<0.1	3.8	0.02	<0.02	35	0.3	0.10	4.9	1.57	<0.1	0.11
AA068660	Soil	12.5	26.4	0.90	23.3	<0.001	<1	1.98	0.003	0.02	<0.1	4.5	0.04	<0.02	20	<0.1	0.10	5.1	1.77	<0.1	0.17
AA068661	Soil	8.9	25.9	0.62	24.9	0.007	2	1.52	0.009	0.03	<0.1	1.7	0.05	0.10	65	<0.1	0.09	4.9	1.76	<0.1	0.14
AA068662	Soil	10.4	31.0	1.09	24.2	0.003	<1	2.24	0.003	0.02	<0.1	1.9	0.04	0.06	52	0.4	0.14	5.5	1.78	<0.1	0.22
AA068663	Soil	17.7	33.7	1.28	27.4	0.002	1	2.54	0.003	0.03	<0.1	3.4	0.06	0.03	74	<0.1	0.08	6.3	1.89	<0.1	0.16
AA068664	Soil	20.0	34.2	1.19	30.0	0.003	<1	2.45	0.004	0.03	<0.1	3.8	0.06	<0.02	66	<0.1	0.06	6.6	1.41	<0.1	0.09
AA068665	Soil	13.4	30.6	1.30	17.9	0.004	1	2.61	0.004	0.03	<0.1	3.2	0.05	0.03	90	0.4	0.20	6.3	1.55	<0.1	0.18
AA068666	Soil	18.9	27.9	1.24	20.0	<0.001	<1	2.32	0.003	0.03	<0.1	3.0	0.05	0.03	52	0.8	0.32	6.2	1.04	0.1	0.07
AA068667	Soil	8.3	26.7	0.72	34.4	0.004	3	1.82	0.003	0.03	<0.1	1.3	0.04	0.09	79	1.1	0.24	5.9	0.82	<0.1	0.19
AA068668	Soil	10.9	19.6	0.54	28.7	0.008	<1	1.56	0.009	0.02	<0.1	1.0	0.04	0.03	52	0.7	0.24	4.5	0.98	<0.1	0.02
AA068669	Soil	13.2	34.5	1.09	31.5	0.006	<1	2.48	0.002	0.03	<0.1	1.7	0.04	0.03	31	0.3	0.11	7.0	0.97	<0.1	0.18
AA068670	Soil	10.9	33.7	0.84	32.8	0.007	<1	2.13	0.002	0.02	<0.1	1.2	0.04	0.04	35	0.3	0.11	7.6	0.95	<0.1	0.17



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Project: None Given

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# CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
AA068641	Soil	0.02	1.6	0.7	<0.05	7.6	8.29	28.8	0.02	1	0.3	60.8	<10	4
AA068642	Soil	0.07	2.4	0.7	<0.05	4.7	10.88	22.5	0.03	2	0.4	61.4	<10	5
AA068643	Soil	0.08	3.2	0.3	<0.05	4.9	7.33	22.6	0.02	<1	0.5	68.5	<10	<2
AA068644	Soil	0.08	2.9	0.8	<0.05	5.1	4.95	22.4	0.03	<1	0.4	57.0	<10	<2
AA068645	Soil	0.05	2.3	1.0	<0.05	3.8	7.17	29.8	<0.02	<1	0.5	64.8	<10	<2
AA068646	Soil	0.15	4.9	0.5	<0.05	2.1	1.86	28.7	<0.02	<1	0.3	48.9	<10	3
AA068647	Soil	0.18	5.1	0.6	<0.05	1.8	1.71	27.5	<0.02	<1	0.1	49.9	<10	<2
AA068648	Soil	0.03	3.4	0.4	<0.05	2.5	2.27	37.8	<0.02	<1	0.7	68.9	<10	<2
AA068649	Soil	0.09	4.2	0.2	<0.05	1.9	1.80	32.8	<0.02	<1	0.3	53.8	<10	<2
AA068650	Soil	0.43	7.3	0.9	<0.05	0.3	2.79	28.3	<0.02	<1	0.3	22.4	<10	<2
AA068651	Soil	0.76	6.3	0.7	<0.05	0.5	3.33	41.2	0.02	<1	0.5	31.7	<10	<2
AA068652	Soil	0.31	4.8	0.9	<0.05	1.2	5.35	30.2	0.03	<1	0.3	17.8	<10	<2
AA068653	Soil	0.62	7.0	0.8	<0.05	0.6	3.72	38.2	0.03	<1	0.5	20.6	<10	<2
AA068654	Soil	0.35	6.7	1.1	<0.05	1.9	10.02	32.1	0.04	<1	0.6	30.5	<10	<2
AA068655	Soil	0.21	6.1	0.4	<0.05	1.1	1.56	19.2	<0.02	<1	0.2	25.7	<10	<2
AA068656	Soil	0.13	2.6	1.1	<0.05	1.5	6.83	36.8	0.03	<1	0.7	22.5	<10	<2
AA068657	Soil	0.32	5.2	0.7	<0.05	5.3	10.47	37.1	0.02	<1	0.5	29.7	<10	<2
AA068658	Soil	0.06	2.1	0.9	<0.05	4.9	11.09	15.7	0.02	<1	0.4	58.9	<10	<2
AA068659	Soil	0.02	1.7	0.7	<0.05	6.1	8.08	26.9	0.06	<1	0.6	51.6	<10	<2
AA068660	Soil	<0.02	1.4	0.6	<0.05	12.0	9.70	21.8	0.04	<1	0.6	60.5	<10	<2
AA068661	Soil	0.11	2.6	3.7	<0.05	4.3	3.30	16.5	<0.02	<1	0.4	47.6	<10	<2
AA068662	Soil	0.06	2.4	2.5	<0.05	6.7	3.60	20.8	0.05	<1	0.5	76.3	<10	4
AA068663	Soil	0.04	2.4	2.7	<0.05	6.4	10.32	37.6	0.02	<1	0.6	90.2	<10	<2
AA068664	Soil	0.08	3.4	1.4	<0.05	4.3	10.81	39.5	0.04	<1	0.8	84.2	<10	2
AA068665	Soil	0.07	3.0	2.0	<0.05	5.8	9.11	29.1	0.03	1	0.9	87.4	<10	5
AA068666	Soil	<0.02	1.7	1.1	<0.05	3.6	5.77	35.7	0.04	1	0.8	81.7	<10	8
AA068667	Soil	0.13	3.5	0.7	<0.05	6.2	2.64	15.9	<0.02	2	0.4	47.7	<10	7
AA068668	Soil	0.14	3.4	0.6	<0.05	0.7	3.69	20.0	<0.02	3	0.4	37.0	16	8
AA068669	Soil	0.24	3.1	0.7	<0.05	4.8	2.61	24.8	0.04	<1	0.3	76.5	<10	<2
AA068670	Soil	0.22	3.9	0.9	<0.05	4.7	2.05	20.1	0.02	<1	0.2	60.3	<10	<2



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Project: None Given

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
AA068671	Soil	0.62	42.36	37.23	85.7	81	38.5	24.0	2221	4.48	24.3	1.8	3.2	3.2	5.0	0.07	0.74	0.55	17	0.02	0.084
AA068672	Soil	0.73	25.16	27.49	64.3	92	25.9	13.2	937	3.44	27.9	0.9	9.4	1.2	5.2	0.07	0.45	0.41	17	0.03	0.094
AA068673	Soil	0.68	24.87	26.12	61.8	68	26.2	12.5	908	3.27	26.4	0.9	3.4	1.0	5.2	0.07	0.47	0.39	16	0.03	0.091
AA068674	Soil	0.08	4.27	2.51	7.6	20	1.8	1.1	106	0.37	0.7	0.3	<0.2	0.1	21.4	0.03	0.06	0.04	5	0.34	0.033
AA068675	Soil	0.44	31.73	34.95	71.4	143	34.3	12.0	477	3.58	15.5	2.7	9.2	5.0	31.8	0.10	0.52	0.48	14	0.32	0.062
AA068676	Soil	0.41	36.40	46.02	70.3	253	45.4	20.9	716	3.83	37.1	2.8	17.6	13.8	19.7	0.09	2.19	0.34	7	0.20	0.030
AA068677	Soil	0.65	62.71	86.94	127.4	353	88.4	56.1	656	6.55	22.5	5.3	4.9	24.8	55.4	0.09	2.49	0.54	9	0.33	0.039
AA068678	Soil	0.51	12.95	11.77	26.8	56	10.6	4.1	156	1.56	6.8	0.6	2.0	0.4	15.3	0.06	0.32	0.20	16	0.17	0.080
AA068679	Soil	0.45	34.90	28.24	58.2	153	34.5	20.9	430	3.39	22.1	1.7	9.6	17.7	68.4	0.07	1.14	0.33	8	0.94	0.055
AA068680	Soil	0.46	44.34	38.01	95.4	191	40.0	21.0	573	4.34	183.0	3.0	40.8	17.0	26.0	0.05	1.18	0.50	9	0.35	0.042
AA068681	Soil	0.55	43.05	38.51	112.7	223	35.7	16.8	299	3.95	288.0	2.9	62.9	14.8	33.3	0.09	1.00	0.50	8	0.38	0.062
AA068682	Soil	0.48	37.40	34.73	80.9	179	32.5	18.8	434	3.84	349.5	2.3	76.3	16.6	26.7	0.04	0.94	0.42	7	0.28	0.039
AA068683	Soil	0.44	56.33	45.29	116.7	156	45.1	27.8	575	4.44	73.9	2.3	11.5	19.0	25.8	0.06	0.91	0.62	11	0.26	0.053
AA068684	Soil	0.52	49.56	41.21	102.6	158	38.4	20.5	370	4.03	75.4	2.1	12.7	15.9	36.3	0.08	0.96	0.51	9	0.56	0.057
AA068685	Soil	0.43	43.06	36.47	97.1	126	36.1	21.7	754	3.88	39.9	1.8	12.1	17.9	23.7	0.10	0.77	0.46	9	0.25	0.050
AA068686	Soil	0.35	43.23	67.25	90.9	211	29.6	19.3	773	3.27	222.2	1.4	35.1	11.2	23.1	0.17	0.84	0.37	8	0.30	0.059
AA068687	Soil	0.56	50.17	34.12	91.5	177	40.6	29.6	902	4.08	322.9	1.9	63.1	23.1	28.0	0.08	0.97	0.51	9	0.33	0.043
AA068688	Soil	0.55	64.39	40.03	115.4	134	48.4	37.6	764	4.29	17.6	1.9	5.3	17.6	18.5	0.08	0.62	0.61	11	0.24	0.040
AA068689	Soil	0.39	46.07	22.46	103.7	90	39.3	18.7	611	3.81	11.8	1.5	1.1	11.7	34.6	0.06	0.39	0.54	8	0.68	0.038
AA068690	Soil	0.46	69.37	542.81	477.0	2615	36.7	19.7	460	3.92	125.1	3.1	150.0	9.9	186.4	2.21	2.01	0.42	7	6.79	0.087



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver BC V6P 6E5 CANADA

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Client: **Golden Predator Mining Corp.**

510 - 580 Hornby Street  
Vancouver BC V6C 3B6 CANADA

Project: None Given

Report Date: September 01, 2016

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# CERTIFICATE OF ANALYSIS

## WHI16000178.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
		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
AA068671	Soil	16.0	29.5	1.01	26.5	0.004	<1	2.33	0.006	0.03	<0.1	2.0	0.04	0.02	30	0.3	0.11	6.6	1.49	<0.1	0.19	
AA068672	Soil	11.0	23.2	0.63	26.3	0.007	<1	1.66	0.008	0.03	<0.1	0.8	0.05	0.04	45	0.4	0.11	5.7	1.28	<0.1	0.06	
AA068673	Soil	10.3	21.8	0.59	24.6	0.007	1	1.59	0.008	0.03	<0.1	0.8	0.04	0.04	34	0.3	0.06	5.4	1.24	<0.1	0.05	
AA068674	Soil	3.5	1.5	0.03	25.3	0.014	<1	0.59	0.039	0.02	<0.1	0.6	0.02	0.04	13	0.4	<0.02	1.2	0.16	<0.1	<0.02	
AA068675	Soil	34.0	15.9	0.47	52.7	0.009	<1	1.28	0.009	0.02	<0.1	5.3	0.05	0.03	42	0.2	0.03	3.6	0.64	<0.1	0.08	
AA068676	Soil	22.4	10.1	0.21	59.7	<0.001	<1	1.02	0.005	0.04	<0.1	4.5	0.06	<0.02	42	0.3	0.03	1.8	1.95	<0.1	0.09	
AA068677	Soil	14.7	17.5	0.23	43.4	0.001	<1	1.18	0.018	0.05	0.2	4.8	0.13	0.11	37	<0.1	0.07	3.6	1.27	<0.1	0.17	
AA068678	Soil	5.6	11.0	0.17	43.6	0.010	<1	0.81	0.012	0.02	<0.1	0.6	0.05	0.06	24	0.2	0.07	3.3	0.44	<0.1	<0.02	
AA068679	Soil	10.7	15.9	0.43	27.5	0.002	<1	1.17	0.003	0.03	<0.1	2.3	0.03	<0.02	48	0.1	0.10	2.8	0.76	0.1	0.16	
AA068680	Soil	13.2	18.6	0.52	36.7	<0.001	<1	1.55	0.003	0.04	<0.1	3.7	0.03	<0.02	20	0.3	0.07	3.4	0.90	<0.1	0.18	
AA068681	Soil	8.3	14.6	0.34	43.5	<0.001	<1	1.45	0.005	0.05	<0.1	2.6	0.04	0.03	17	0.2	0.03	2.9	1.53	<0.1	0.21	
AA068682	Soil	9.9	12.3	0.31	38.4	<0.001	<1	1.29	0.005	0.04	<0.1	2.5	0.03	<0.02	19	<0.1	<0.02	2.6	1.57	<0.1	0.11	
AA068683	Soil	11.4	22.2	0.67	26.8	0.001	<1	1.73	0.003	0.03	<0.1	2.8	0.03	<0.02	17	<0.1	0.06	4.2	0.88	<0.1	0.19	
AA068684	Soil	11.1	18.2	0.55	26.2	0.002	<1	1.50	0.003	0.03	<0.1	2.6	0.02	0.03	33	0.2	0.04	3.6	0.64	<0.1	0.22	
AA068685	Soil	12.4	16.9	0.53	35.2	0.002	<1	1.43	0.003	0.03	<0.1	2.7	0.02	<0.02	22	0.2	0.07	3.2	0.53	<0.1	0.16	
AA068686	Soil	12.5	12.3	0.40	42.6	0.006	<1	1.17	0.013	0.03	<0.1	3.3	0.03	0.02	22	0.3	0.03	2.5	0.29	<0.1	0.12	
AA068687	Soil	14.6	17.2	0.58	39.9	0.002	<1	1.47	0.004	0.03	<0.1	3.5	0.03	<0.02	32	<0.1	0.08	3.5	0.72	<0.1	0.17	
AA068688	Soil	10.8	21.5	0.81	21.6	0.002	3	1.69	0.002	0.04	<0.1	3.1	0.03	0.02	43	0.6	0.14	4.1	0.66	<0.1	0.22	
AA068689	Soil	6.5	16.8	0.67	15.0	0.001	<1	1.33	0.002	0.03	<0.1	3.4	<0.02	<0.02	45	<0.1	0.06	3.4	0.26	<0.1	0.16	
AA068690	Soil	13.6	10.4	0.44	16.0	0.003	<1	0.84	0.002	0.02	0.1	3.3	0.02	0.06	115	0.6	0.10	1.9	0.43	<0.1	0.12	



Bureau Veritas Commodities Canada Ltd.

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Client: **Golden Predator Mining Corp.**

510 - 580 Hornby Street  
Vancouver BC V6C 3B6 CANADA

Project: None Given

Report Date: September 01, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000178.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA068671	Soil	0.11	3.6	0.6	<0.05	5.0	2.73	28.0	0.03	<1	0.2	75.3	<10	3
AA068672	Soil	0.18	4.1	1.0	<0.05	2.2	1.70	19.6	0.02	<1	0.2	45.3	<10	4
AA068673	Soil	0.18	3.9	0.8	<0.05	1.8	1.64	19.1	<0.02	<1	0.2	40.7	<10	<2
AA068674	Soil	0.25	1.0	0.2	<0.05	0.9	1.41	7.7	<0.02	<1	0.3	1.3	<10	<2
AA068675	Soil	0.35	3.2	0.6	<0.05	2.4	20.35	57.1	0.06	<1	0.3	30.9	<10	<2
AA068676	Soil	0.05	4.5	1.3	<0.05	4.7	17.73	40.1	0.04	1	0.6	12.0	<10	<2
AA068677	Soil	0.06	3.4	0.9	<0.05	7.6	25.12	33.6	0.08	<1	0.3	22.2	<10	<2
AA068678	Soil	0.34	1.9	1.4	<0.05	0.6	1.87	10.5	0.02	<1	0.3	10.6	<10	2
AA068679	Soil	0.12	1.8	0.8	<0.05	10.1	7.76	21.0	0.02	<1	0.4	29.4	<10	4
AA068680	Soil	0.04	2.7	1.6	<0.05	7.7	10.58	25.1	0.03	<1	0.2	37.5	<10	<2
AA068681	Soil	0.08	4.5	1.7	<0.05	7.9	6.79	15.8	0.03	<1	0.3	21.4	<10	<2
AA068682	Soil	0.05	3.3	1.2	<0.05	5.2	5.96	19.9	<0.02	<1	0.4	17.9	<10	<2
AA068683	Soil	<0.02	1.9	0.2	<0.05	12.7	7.18	21.1	0.03	<1	0.4	45.8	<10	<2
AA068684	Soil	0.04	1.9	1.1	<0.05	8.8	7.67	20.6	<0.02	<1	0.4	37.2	<10	<2
AA068685	Soil	0.03	1.6	0.6	<0.05	9.6	8.59	25.2	0.04	2	0.4	36.2	<10	3
AA068686	Soil	0.13	1.7	1.0	<0.05	6.7	11.42	24.8	0.02	<1	0.6	28.7	<10	<2
AA068687	Soil	0.03	1.9	1.1	<0.05	10.7	10.22	29.2	0.04	1	0.4	38.5	<10	<2
AA068688	Soil	<0.02	1.5	1.8	<0.05	13.9	8.87	20.2	0.04	<1	0.5	59.8	<10	4
AA068689	Soil	<0.02	1.3	0.5	<0.05	10.6	8.02	11.5	0.03	<1	0.4	50.2	<10	<2
AA068690	Soil	0.05	1.4	0.9	<0.05	10.2	9.89	26.5	0.07	1	0.5	26.7	<10	6



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Vancouver BC V6C 3B6 CANADA

**Project:** None Given  
**Report Date:** September 01, 2016

**Page:** 1 of 2 **Part:** 1 of 3

# QUALITY CONTROL REPORT

# WHI16000178.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
Pulp Duplicates																					
AA068350	Soil	0.21	33.62	23.78	64.8	119	27.4	11.3	258	3.21	20.3	1.7	5.0	5.7	26.6	0.04	0.74	0.30	11	0.65	0.055
REP AA068350	QC	0.22	31.36	22.03	61.0	109	26.6	10.3	250	3.12	18.8	1.6	5.1	5.4	25.1	0.05	0.68	0.29	10	0.63	0.056
AA068364	Soil	0.30	43.80	44.19	95.2	58	39.4	22.8	728	4.25	12.7	1.6	1.9	13.9	12.1	0.05	0.45	0.58	15	0.15	0.033
REP AA068364	QC	0.34	43.06	41.37	94.9	54	39.1	24.1	746	4.34	13.1	1.6	2.0	13.4	12.1	0.05	0.43	0.57	15	0.15	0.037
AA068421	Soil	0.48	67.77	53.78	106.6	145	50.7	34.3	760	4.76	12.9	2.3	1.7	15.5	18.6	0.09	0.82	0.79	14	0.23	0.057
REP AA068421	QC	0.51	69.74	53.31	111.9	134	51.0	34.8	768	4.77	13.2	2.2	2.1	16.1	19.3	0.10	0.87	0.81	14	0.23	0.059
AA068507	Soil	0.24	30.72	34.16	36.5	156	29.6	15.7	387	2.53	14.4	1.2	4.7	14.3	20.1	0.09	1.28	0.34	6	0.46	0.071
REP AA068507	QC	0.21	30.80	33.78	40.8	162	30.2	15.7	379	2.51	15.2	1.2	5.1	14.3	19.8	0.09	1.22	0.33	5	0.45	0.070
AA068542	Soil	0.26	27.90	37.26	46.6	253	27.5	23.8	1415	2.88	443.5	2.0	133.6	20.0	18.4	0.07	1.01	0.38	5	0.19	0.046
REP AA068542	QC	0.24	29.12	35.38	45.5	279	25.9	23.1	1422	2.90	447.5	1.9	131.9	19.0	18.1	0.04	1.00	0.37	5	0.19	0.044
AA068579	Soil	0.52	50.39	36.24	78.4	60	33.0	27.9	1337	3.74	27.0	0.7	1.2	5.0	5.6	0.05	0.43	0.57	15	0.03	0.098
REP AA068579	QC	0.47	49.48	34.96	76.1	56	32.3	27.8	1344	3.71	25.8	0.7	0.8	4.9	5.6	0.04	0.39	0.54	14	0.03	0.091
AA068615	Soil	0.60	38.77	35.60	337.1	147	32.6	16.4	831	4.73	36.3	1.9	3.4	4.3	105.9	0.53	1.65	0.43	12	4.22	0.109
REP AA068615	QC	0.60	37.82	35.07	324.7	145	30.8	15.9	807	4.71	34.4	1.9	3.3	4.2	107.1	0.50	1.63	0.43	11	4.19	0.110
AA068651	Soil	1.16	21.50	26.04	97.6	17	27.9	13.4	489	3.91	34.4	1.2	2.0	4.0	7.9	0.11	0.63	0.47	33	0.03	0.045
REP AA068651	QC	1.09	21.06	26.07	90.7	12	27.0	12.6	483	3.88	33.5	1.2	1.6	4.1	8.1	0.10	0.61	0.47	32	0.03	0.046
AA068687	Soil	0.56	50.17	34.12	91.5	177	40.6	29.6	902	4.08	322.9	1.9	63.1	23.1	28.0	0.08	0.97	0.51	9	0.33	0.043
REP AA068687	QC	0.56	51.00	35.26	96.2	164	40.6	29.3	898	4.10	327.0	2.0	54.6	23.5	28.5	0.08	0.93	0.53	9	0.33	0.043
Reference Materials																					
STD DS10	Standard	13.59	149.79	147.86	350.4	1789	70.7	12.4	857	2.75	44.2	2.5	69.2	7.4	60.5	2.49	8.53	11.54	42	1.06	0.072
STD DS10	Standard	15.05	159.73	150.73	353.0	1826	77.1	13.4	853	2.85	45.7	2.8	91.0	8.0	73.7	2.45	9.33	12.76	44	1.07	0.078
STD DS10	Standard	14.54	147.74	140.92	347.8	1826	72.5	12.5	846	2.69	43.4	2.7	73.6	7.5	70.1	2.36	8.68	12.21	41	1.06	0.072
STD DS10	Standard	14.75	161.15	148.79	357.8	1828	77.3	13.3	876	2.74	44.2	2.8	71.4	7.7	68.7	2.41	9.24	12.76	45	1.10	0.071
STD DS10	Standard	14.40	152.73	154.23	351.2	1880	72.7	12.3	894	2.79	44.9	2.8	76.4	8.0	69.7	2.53	9.42	13.03	44	1.08	0.075
STD DS10	Standard	15.59	155.04	152.19	360.1	1816	76.5	13.6	887	2.85	43.4	2.8	80.2	7.9	75.2	2.53	8.93	12.85	45	1.08	0.072
STD DS10	Standard	14.79	149.91	144.43	344.5	1820	73.5	12.4	850	2.77	42.7	2.6	69.2	7.6	68.5	2.47	9.05	12.65	41	1.06	0.069
STD DS10	Standard	14.28	156.18	145.47	360.7	1838	75.3	12.9	857	2.78	46.3	2.6	72.0	7.4	67.9	2.56	8.51	12.38	44	1.07	0.073
STD DS10	Standard	14.14	149.35	146.63	338.2	1761	70.1	12.1	813	2.73	42.6	2.6	80.4	7.5	65.7	2.33	8.53	12.22	40	1.04	0.069



# QUALITY CONTROL REPORT

WHI16000178.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
Pulp Duplicates																					
AA068350	Soil	12.2	17.0	0.62	43.2	0.002	<1	1.63	0.010	0.03	<0.1	2.2	0.03	0.04	15	0.2	0.05	3.7	0.71	<0.1	0.17
REP AA068350	QC	11.1	15.5	0.61	38.6	0.002	<1	1.60	0.010	0.03	<0.1	2.2	0.03	0.04	22	<0.1	<0.02	3.5	0.67	<0.1	0.18
AA068364	Soil	18.6	27.6	0.88	24.9	0.001	<1	2.06	0.002	0.03	<0.1	1.8	0.02	<0.02	6	<0.1	0.07	6.0	0.41	<0.1	0.08
REP AA068364	QC	18.5	28.4	0.90	23.9	0.002	<1	2.08	0.002	0.03	<0.1	2.0	0.02	<0.02	<5	<0.1	0.06	5.5	0.39	<0.1	0.07
AA068421	Soil	13.7	28.9	0.88	24.0	0.002	<1	2.07	0.003	0.04	<0.1	2.7	0.03	0.03	13	<0.1	0.06	5.5	0.94	<0.1	0.18
REP AA068421	QC	14.2	29.5	0.89	25.0	0.002	<1	2.08	0.003	0.04	<0.1	2.8	0.03	0.03	15	<0.1	0.06	5.6	0.96	<0.1	0.16
AA068507	Soil	22.3	7.4	0.31	40.2	0.002	1	0.91	0.002	0.04	<0.1	3.1	0.02	<0.02	14	0.2	0.04	1.8	1.13	<0.1	0.08
REP AA068507	QC	21.9	7.8	0.30	39.6	0.002	1	0.90	0.002	0.04	<0.1	3.2	0.03	<0.02	17	0.3	0.09	2.0	1.13	<0.1	0.08
AA068542	Soil	16.9	6.9	0.30	39.9	0.001	<1	0.96	0.002	0.03	<0.1	1.8	0.03	<0.02	8	<0.1	<0.02	1.9	0.85	<0.1	0.06
REP AA068542	QC	15.8	6.6	0.28	37.9	0.001	<1	0.97	0.002	0.03	<0.1	1.7	0.03	<0.02	9	<0.1	0.04	1.9	0.84	<0.1	0.06
AA068579	Soil	17.6	23.5	0.86	25.6	0.004	1	1.99	0.004	0.04	<0.1	1.6	0.04	<0.02	20	0.1	0.09	5.1	0.82	<0.1	0.06
REP AA068579	QC	16.5	23.1	0.86	25.9	0.004	<1	2.00	0.004	0.04	<0.1	1.5	0.04	<0.02	13	0.1	0.04	5.0	0.78	<0.1	0.05
AA068615	Soil	18.6	15.6	0.39	97.7	0.002	2	1.76	0.003	0.09	0.2	2.4	0.07	0.09	75	0.5	0.07	3.6	0.63	<0.1	0.14
REP AA068615	QC	18.0	15.0	0.38	92.8	0.002	2	1.76	0.003	0.09	0.2	2.6	0.08	0.09	75	0.4	0.04	3.3	0.60	<0.1	0.12
AA068651	Soil	19.5	25.6	0.60	41.4	0.022	1	1.72	0.003	0.05	0.3	1.7	0.09	0.03	15	0.4	0.08	5.7	1.25	<0.1	<0.02
REP AA068651	QC	19.1	25.8	0.59	40.3	0.021	1	1.72	0.003	0.05	0.3	1.7	0.09	0.03	19	0.3	0.03	5.8	1.20	<0.1	<0.02
AA068687	Soil	14.6	17.2	0.58	39.9	0.002	<1	1.47	0.004	0.03	<0.1	3.5	0.03	<0.02	32	<0.1	0.08	3.5	0.72	<0.1	0.17
REP AA068687	QC	14.6	17.4	0.58	40.7	0.002	<1	1.48	0.004	0.03	<0.1	3.5	0.03	<0.02	41	0.1	0.07	3.1	0.71	<0.1	0.18
Reference Materials																					
STD DS10	Standard	16.5	52.0	0.78	350.1	0.075	7	1.04	0.068	0.33	3.3	2.7	5.03	0.28	288	2.4	5.00	4.3	2.64	<0.1	0.04
STD DS10	Standard	18.6	55.1	0.78	354.1	0.080	7	1.07	0.076	0.35	3.2	3.0	5.03	0.28	272	2.2	4.67	4.1	2.58	<0.1	0.04
STD DS10	Standard	17.9	52.5	0.77	347.6	0.079	5	1.07	0.074	0.34	3.2	2.9	4.80	0.27	251	1.8	4.66	4.5	2.51	<0.1	0.05
STD DS10	Standard	17.8	53.6	0.78	339.9	0.079	7	1.08	0.075	0.34	3.1	3.0	4.94	0.28	274	2.0	4.65	4.2	2.50	<0.1	0.07
STD DS10	Standard	17.8	55.1	0.77	347.9	0.078	6	1.07	0.072	0.34	3.2	2.9	5.22	0.28	292	1.9	4.72	4.3	2.60	<0.1	0.05
STD DS10	Standard	18.8	56.5	0.78	361.6	0.082	5	1.08	0.076	0.35	3.2	2.7	5.13	0.28	283	2.2	4.91	4.2	2.62	<0.1	0.04
STD DS10	Standard	17.7	53.9	0.78	341.8	0.082	7	1.06	0.073	0.34	3.1	2.6	4.86	0.27	242	2.5	4.67	4.2	2.46	<0.1	0.05
STD DS10	Standard	17.5	55.3	0.78	326.9	0.078	7	1.04	0.072	0.33	3.0	2.7	4.99	0.28	307	1.8	4.72	4.4	2.49	<0.1	0.05
STD DS10	Standard	16.9	53.2	0.76	326.9	0.075	8	1.03	0.071	0.33	3.1	2.7	4.85	0.27	277	2.7	4.74	4.0	2.46	0.1	0.05



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Project: None Given  
Report Date: September 01, 2016

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates														
AA068350	Soil	0.16	2.8	0.2	<0.05	5.8	8.90	22.8	0.03	<1	0.4	40.0	<10	<2
REP AA068350	QC	0.11	2.6	0.2	<0.05	5.7	8.05	21.3	0.03	<1	0.3	39.4	<10	<2
AA068364	Soil	<0.02	1.8	<0.1	<0.05	5.3	5.54	32.9	0.03	<1	0.4	69.9	<10	<2
REP AA068364	QC	<0.02	1.9	0.1	<0.05	5.0	5.63	33.3	<0.02	<1	0.2	71.9	<10	<2
AA068421	Soil	<0.02	1.8	0.2	<0.05	10.1	7.04	23.5	0.03	<1	0.5	69.1	<10	<2
REP AA068421	QC	0.04	1.8	0.2	<0.05	10.3	6.96	24.5	0.02	<1	0.4	70.2	<10	<2
AA068507	Soil	0.04	2.7	0.2	<0.05	5.2	10.93	43.7	0.03	<1	0.2	14.2	<10	<2
REP AA068507	QC	0.04	2.7	0.2	<0.05	5.0	10.85	44.6	0.03	<1	0.3	14.0	<10	<2
AA068542	Soil	<0.02	2.1	0.2	<0.05	6.2	5.72	34.2	<0.02	<1	0.2	14.4	<10	<2
REP AA068542	QC	<0.02	2.1	0.2	<0.05	5.7	5.81	31.5	<0.02	<1	0.3	13.7	<10	<2
AA068579	Soil	0.14	4.7	0.2	<0.05	2.4	3.55	32.7	0.02	<1	0.3	52.5	<10	<2
REP AA068579	QC	0.14	4.4	0.1	<0.05	2.2	3.46	30.3	0.02	<1	0.2	46.9	<10	<2
AA068615	Soil	0.20	6.3	0.5	<0.05	4.1	16.72	38.6	0.07	<1	0.8	26.6	<10	<2
REP AA068615	QC	0.19	6.3	0.6	<0.05	4.0	17.33	37.6	0.03	<1	0.8	25.0	<10	<2
AA068651	Soil	0.76	6.3	0.7	<0.05	0.5	3.33	41.2	0.02	<1	0.5	31.7	<10	<2
REP AA068651	QC	0.78	6.1	0.7	<0.05	0.5	3.34	40.8	0.03	<1	0.4	30.6	<10	<2
AA068687	Soil	0.03	1.9	1.1	<0.05	10.7	10.22	29.2	0.04	1	0.4	38.5	<10	<2
REP AA068687	QC	0.04	2.0	1.0	<0.05	10.6	10.72	28.4	<0.02	1	0.3	40.2	<10	4
Reference Materials														
STD DS10	Standard	1.35	26.9	1.4	<0.05	2.2	7.25	34.5	0.19	51	0.5	19.1	95	186
STD DS10	Standard	1.60	28.1	1.7	<0.05	2.6	8.06	36.9	0.24	53	0.7	20.5	111	183
STD DS10	Standard	1.50	27.3	1.5	<0.05	2.5	7.81	35.1	0.21	49	0.8	19.5	106	182
STD DS10	Standard	1.45	27.7	1.6	<0.05	2.5	7.59	34.1	0.25	45	0.6	19.8	117	174
STD DS10	Standard	1.54	27.9	1.6	<0.05	2.7	7.64	36.2	0.23	44	0.5	19.6	113	183
STD DS10	Standard	1.51	27.7	1.5	<0.05	2.6	7.97	36.8	0.23	47	0.3	18.3	105	185
STD DS10	Standard	1.49	26.9	1.6	<0.05	2.5	7.41	35.6	0.22	47	0.4	19.5	106	192
STD DS10	Standard	1.39	27.6	1.6	<0.05	2.5	7.82	34.5	0.22	47	0.5	19.7	105	198
STD DS10	Standard	1.44	26.6	1.5	<0.05	2.4	7.24	33.5	0.20	45	0.8	17.1	122	175



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		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
STD OXC129	Standard	1.24	26.12	6.24	39.3	8	78.7	20.2	385	3.06	0.8	0.7	193.4	1.8	174.2	0.05	0.03	<0.02	52	0.67	0.099
STD OXC129	Standard	1.33	28.16	6.44	41.0	16	84.6	21.6	421	3.13	0.7	0.7	186.1	1.9	194.9	0.04	0.03	<0.02	53	0.68	0.103
STD OXC129	Standard	1.27	28.50	6.63	41.1	10	82.0	21.2	420	3.04	0.9	0.7	185.1	1.9	194.5	0.05	0.03	<0.02	50	0.69	0.098
STD OXC129	Standard	1.30	28.36	6.65	39.5	15	84.5	22.0	428	3.05	0.7	0.7	190.4	2.0	192.4	0.02	0.04	<0.02	52	0.67	0.095
STD OXC129	Standard	1.29	27.49	6.47	40.7	9	81.5	20.8	437	3.15	0.7	0.7	189.6	1.9	197.6	0.01	0.03	<0.02	52	0.70	0.104
STD OXC129	Standard	1.35	27.88	6.83	40.1	19	81.1	21.3	439	3.13	0.4	0.8	196.0	2.1	197.1	0.04	0.04	<0.02	53	0.67	0.100
STD OXC129	Standard	1.22	26.41	6.59	41.3	15	77.9	19.7	415	3.00	<0.1	0.7	191.7	1.9	194.2	0.05	0.04	<0.02	49	0.63	0.094
STD OXC129	Standard	1.26	28.28	6.42	39.8	19	83.9	20.6	421	3.07	0.5	0.7	202.8	2.0	189.0	0.04	0.04	<0.02	52	0.63	0.101
STD OXC129	Standard	1.29	24.82	6.50	38.1	19	75.4	19.9	412	2.95	0.5	0.7	197.1	1.9	181.1	0.04	0.04	<0.02	49	0.62	0.092
STD DS10 Expected		15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	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	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665	0.102
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.04	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.4	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.03	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	7	<0.1	<0.1	<1	<0.01	0.1	<0.1	<0.2	<0.1	<0.5	0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



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		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
STD OXC129	Standard	11.9	50.5	1.55	47.3	0.395	2	1.55	0.601	0.37	<0.1	1.2	0.04	<0.02	<5	<0.1	<0.02	5.5	0.16	<0.1	0.27
STD OXC129	Standard	12.8	51.1	1.56	48.8	0.413	<1	1.63	0.611	0.40	<0.1	0.8	0.03	<0.02	<5	<0.1	<0.02	5.6	0.15	0.1	0.29
STD OXC129	Standard	13.0	50.0	1.56	49.6	0.415	<1	1.66	0.640	0.42	<0.1	1.1	0.04	<0.02	<5	<0.1	<0.02	5.3	0.15	<0.1	0.28
STD OXC129	Standard	13.6	53.6	1.57	50.7	0.419	<1	1.68	0.644	0.42	<0.1	1.0	0.03	<0.02	<5	<0.1	<0.02	5.3	0.15	<0.1	0.29
STD OXC129	Standard	13.3	53.9	1.58	48.5	0.416	1	1.67	0.658	0.41	<0.1	0.8	0.03	<0.02	<5	<0.1	<0.02	5.3	0.16	<0.1	0.25
STD OXC129	Standard	13.5	52.8	1.55	51.4	0.422	<1	1.61	0.606	0.40	<0.1	0.8	0.03	<0.02	<5	0.2	<0.02	5.4	0.17	<0.1	0.31
STD OXC129	Standard	12.7	50.2	1.51	47.0	0.395	1	1.59	0.612	0.39	<0.1	0.8	0.03	<0.02	6	<0.1	<0.02	5.2	0.16	<0.1	0.31
STD OXC129	Standard	12.7	51.6	1.56	47.3	0.409	1	1.58	0.597	0.38	<0.1	1.0	0.03	<0.02	9	<0.1	0.03	5.5	0.17	0.1	0.23
STD OXC129	Standard	12.5	51.1	1.50	48.4	0.392	1	1.54	0.600	0.39	<0.1	0.8	0.03	<0.02	<5	<0.1	<0.02	5.4	0.16	<0.1	0.26
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0259	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	2.63	0.08	0.06
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6	0.16		0.24
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	0.2	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	13	<0.1	0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
STD OXC129	Standard	1.71	15.4	0.8	<0.05	20.2	4.60	22.7	<0.02	<1	0.9	2.3	<10	<2
STD OXC129	Standard	1.07	15.9	0.7	<0.05	22.7	4.76	22.8	<0.02	<1	1.0	2.1	<10	<2
STD OXC129	Standard	0.97	16.1	0.7	<0.05	20.4	4.55	22.6	<0.02	<1	0.8	2.2	<10	<2
STD OXC129	Standard	1.31	15.5	0.7	<0.05	22.0	4.63	23.2	<0.02	<1	0.7	2.1	<10	<2
STD OXC129	Standard	0.96	15.5	0.7	<0.05	21.4	4.65	23.4	<0.02	<1	0.7	2.5	<10	<2
STD OXC129	Standard	1.20	15.8	0.8	<0.05	22.2	4.64	24.6	<0.02	<1	0.8	1.9	<10	<2
STD OXC129	Standard	1.03	15.1	0.7	<0.05	22.6	4.54	23.1	<0.02	<1	0.8	1.9	<10	<2
STD OXC129	Standard	1.24	15.5	0.7	<0.05	18.5	4.65	23.1	<0.02	<1	1.0	2.2	<10	<2
STD OXC129	Standard	1.11	14.9	0.6	<0.05	20.5	4.54	22.6	<0.02	<1	0.8	2.0	<10	<2
STD DS10 Expected		1.62	27.7	1.6		2.7	7.77	37	0.23	50	0.63	19.4	110	191
STD OXC129 Expected		1.4		0.7		21	4.7	23.7			0.8	2.22		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	5
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

**Client:** **Golden Predator Mining Corp.**  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

Submitted By: M. Burke  
Receiving Lab: Canada-Whitehorse  
Received: August 16, 2016  
Report Date: September 08, 2016  
Page: 1 of 12

# CERTIFICATE OF ANALYSIS

WHI16000179.1

## CLIENT JOB INFORMATION

Project: None Given  
Shipment ID:  
P.O. Number NA-16176  
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: Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6  
Canada

CC:

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	319	Dry at 60C			WHI
SS80	319	Dry at 60C sieve 100g to -80 mesh			WHI
AQ251_EXT	319	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
SHP01	319	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:** None Given  
**Report Date:** September 08, 2016

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**Part:** 1 of 3

# CERTIFICATE OF ANALYSIS

WHI16000179.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P		
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001		
AA068691	Soil	0.46	52.85	184.08	239.2	609	44.9	26.0	721	4.35	62.3	2.2	87.3	11.5	66.2	0.98	1.30	0.60	9	1.37	0.071	
AA068692	Soil	0.52	58.12	383.80	423.4	1237	43.5	21.2	1094	4.67	54.6	2.3	55.9	13.8	23.7	2.94	1.60	0.57	9	0.29	0.078	
AA068693	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
AA068694	Soil	0.57	49.18	181.73	245.0	655	41.3	19.3	836	4.47	43.6	2.3	17.4	10.6	38.7	1.14	1.73	0.52	8	0.73	0.104	
AA068695	Soil	0.43	67.56	49.98	128.2	139	54.1	32.0	1073	5.84	10.4	3.5	1.8	21.6	14.7	0.13	1.87	0.68	10	0.13	0.054	
AA068696	Soil	0.44	47.68	52.36	121.3	95	45.8	26.4	1229	4.89	14.5	2.4	2.6	20.5	10.8	0.19	2.23	0.52	14	0.09	0.068	
AA068697	Soil	0.39	46.87	42.47	115.3	144	43.5	23.2	907	4.47	35.5	2.2	7.6	21.0	43.5	0.14	3.81	0.48	8	0.30	0.076	
AA068698	Soil	0.30	28.89	36.69	85.0	97	32.2	16.8	663	3.63	9.0	1.5	1.5	14.8	17.9	0.10	1.58	0.34	9	0.17	0.049	
AA068699	Soil	0.32	53.12	50.60	98.4	150	42.8	31.2	919	4.56	9.0	2.1	1.0	21.3	23.4	0.08	0.81	0.69	8	0.24	0.059	
AA068700	Soil	0.35	47.08	45.70	93.4	137	40.4	24.6	861	4.24	10.0	1.7	1.7	17.8	23.2	0.11	0.73	0.62	10	0.24	0.056	
AA068701	Soil	0.24	22.08	15.14	59.4	65	18.6	6.8	158	2.28	8.1	1.5	10.0	2.6	27.1	0.05	0.53	0.25	11	0.36	0.071	
AA068702	Soil	0.44	50.32	36.99	107.0	191	40.9	23.1	533	4.31	39.9	1.7	10.2	15.8	30.5	0.09	0.99	0.51	11	0.35	0.051	
AA068703	Soil	0.43	50.34	34.51	105.1	223	37.8	17.3	291	4.14	25.7	1.9	10.0	9.7	50.7	0.09	0.98	0.48	11	1.02	0.056	
AA068704	Soil	0.41	50.84	35.38	114.3	206	41.5	22.0	446	4.35	28.3	2.0	10.6	14.9	26.4	0.08	0.99	0.49	11	0.30	0.050	
AA068705	Soil	0.36	34.88	27.80	74.1	114	30.0	13.8	247	3.21	16.3	2.0	2.2	8.1	297.1	0.16	1.05	0.37	7	9.06	0.065	
AA068706	Soil	0.38	53.20	48.51	124.0	275	40.6	23.5	578	4.37	146.6	4.0	18.2	14.4	34.3	0.14	0.79	0.50	12	0.50	0.050	
AA068707	Soil	0.60	29.88	25.87	101.7	81	41.8	16.7	571	4.82	11.6	1.6	2.6	7.4	10.9	0.08	0.53	0.51	21	0.12	0.050	
AA068708	Soil	0.27	22.66	18.74	71.7	156	17.5	7.0	198	2.10	7.5	1.2	1.9	2.0	75.6	0.21	0.52	0.26	12	1.60	0.106	
AA068709	Soil	0.49	32.72	25.06	80.4	153	33.0	14.1	313	3.29	32.2	1.9	9.4	10.5	164.0	0.14	1.26	0.36	13	4.82	0.074	
AA068710	Soil	0.60	35.28	35.57	82.4	643	42.1	18.7	944	4.08	21.5	2.6	11.0	10.5	37.3	0.21	1.43	0.40	17	0.74	0.098	
AA068711	Soil	0.51	42.11	34.90	120.0	199	40.3	17.4	315	3.85	49.9	2.1	9.8	6.8	43.1	0.21	1.29	0.41	11	0.87	0.085	
AA068712	Soil	0.21	13.43	12.73	46.5	54	8.0	3.4	349	1.43	5.3	1.2	1.0	0.3	114.3	0.16	0.40	0.15	9	1.22	0.086	
AA068713	Soil	0.38	25.05	45.07	92.5	129	20.2	10.2	432	2.66	15.5	2.3	4.0	1.2	73.8	0.18	1.39	0.32	13	1.46	0.136	
AA068714	Soil	0.34	19.80	12.99	37.1	130	16.7	6.5	294	1.88	14.2	0.8	2.1	0.4	17.7	0.03	0.44	0.24	11	0.24	0.066	
AA068715	Soil	0.39	29.72	18.91	67.2	63	30.8	12.0	560	3.29	20.4	0.9	3.6	2.2	12.3	0.02	0.65	0.33	14	0.17	0.059	
AA068716	Soil	0.50	14.09	10.22	22.5	44	6.9	3.7	257	1.57	6.5	0.6	1.2	0.1	6.2	0.03	0.22	0.20	17	0.06	0.076	
AA068717	Soil	0.36	64.58	42.69	105.6	53	60.3	30.4	1804	4.99	12.4	2.1	1.1	7.9	8.7	0.03	0.17	0.54	21	0.15	0.059	
AA068718	Soil	0.69	54.43	21.95	80.7	82	39.6	18.1	1047	4.28	27.7	1.0	1.1	2.4	3.7	0.06	0.65	0.51	20	0.03	0.119	
AA068719	Soil	0.95	84.68	57.78	107.1	82	64.7	45.3	3059	5.01	34.1	1.4	2.6	7.2	8.8	0.07	1.19	0.66	21	0.14	0.088	
AA068720	Soil	0.44	24.49	13.12	52.1	55	23.6	9.7	575	2.42	11.0	0.6	0.6	0.9	4.4	0.05	0.20	0.23	15	0.04	0.064	



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000179.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sc ppm	Tl ppm	S %	Hg ppb	Se ppm	Te ppm	Ga ppm	Cs ppm	Ge ppm	Hf ppm	
AA068691	Soil	18.4	14.8	0.65	24.6	0.003	<1	1.24	0.003	0.03	<0.1	3.8	0.03	0.04	45	<0.1	0.07	3.0	0.38	<0.1	0.14
AA068692	Soil	21.5	13.8	0.58	27.6	0.003	2	1.23	0.004	0.04	<0.1	5.3	0.03	0.04	70	0.2	0.06	2.8	0.43	<0.1	0.12
AA068693	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
AA068694	Soil	24.7	12.3	0.44	35.3	0.005	1	1.11	0.007	0.04	<0.1	4.9	0.03	0.03	55	0.2	0.07	2.5	0.40	<0.1	0.13
AA068695	Soil	12.6	22.9	0.78	20.8	0.002	<1	1.75	0.003	0.02	<0.1	3.5	0.04	<0.02	36	<0.1	0.03	4.5	0.68	<0.1	0.12
AA068696	Soil	16.7	27.0	0.77	35.1	0.004	<1	1.99	0.004	0.04	<0.1	4.3	0.05	<0.02	29	0.1	0.02	4.9	0.70	<0.1	0.15
AA068697	Soil	15.8	13.1	0.47	30.0	0.002	<1	1.43	0.005	0.04	<0.1	5.2	0.04	<0.02	26	<0.1	0.02	2.8	1.39	<0.1	0.11
AA068698	Soil	14.1	16.0	0.48	26.0	0.003	<1	1.24	0.003	0.03	<0.1	3.4	0.03	<0.02	18	<0.1	<0.02	3.2	0.50	<0.1	0.12
AA068699	Soil	13.6	18.8	0.63	31.1	0.001	<1	1.60	0.003	0.04	<0.1	3.4	0.03	<0.02	24	<0.1	0.02	3.9	0.80	<0.1	0.14
AA068700	Soil	15.3	19.6	0.68	32.1	0.002	<1	1.68	0.003	0.04	<0.1	2.8	0.03	<0.02	28	0.1	0.04	4.2	0.61	<0.1	0.20
AA068701	Soil	7.1	13.3	0.35	34.2	0.006	1	1.28	0.020	0.03	<0.1	1.0	0.03	0.04	16	<0.1	0.02	3.3	0.61	<0.1	0.05
AA068702	Soil	17.4	19.4	0.64	33.0	0.001	<1	1.65	0.004	0.04	<0.1	3.0	0.02	<0.02	15	0.2	0.07	3.8	0.73	<0.1	0.16
AA068703	Soil	15.1	19.0	0.54	33.5	0.001	1	1.50	0.004	0.03	<0.1	3.1	0.02	0.03	39	0.5	0.06	3.6	0.59	<0.1	0.18
AA068704	Soil	16.5	21.2	0.64	28.5	<0.001	3	1.69	0.003	0.04	<0.1	3.1	0.03	<0.02	26	0.2	0.05	4.2	0.80	<0.1	0.13
AA068705	Soil	22.8	7.0	0.32	19.8	0.002	2	0.63	0.005	0.03	0.1	3.8	0.03	0.03	53	0.3	0.10	1.4	0.52	<0.1	0.14
AA068706	Soil	10.9	21.5	0.66	41.1	0.001	<1	1.81	0.004	0.05	<0.1	3.1	0.03	0.03	31	0.4	0.04	4.2	0.89	<0.1	0.20
AA068707	Soil	14.2	28.4	0.77	51.8	0.005	<1	1.98	0.004	0.03	<0.1	2.3	0.05	0.03	22	0.3	0.09	5.1	1.03	<0.1	0.07
AA068708	Soil	18.9	12.0	0.27	47.2	0.008	2	1.13	0.026	0.05	<0.1	2.2	0.04	0.06	29	0.4	0.04	2.7	0.75	<0.1	0.07
AA068709	Soil	16.2	13.0	0.36	44.9	0.010	<1	0.99	0.005	0.04	0.2	3.2	0.03	<0.02	28	0.3	0.08	2.5	0.56	<0.1	0.15
AA068710	Soil	30.4	20.1	0.54	50.1	0.013	<1	1.62	0.005	0.04	0.1	5.6	0.05	0.03	62	0.7	0.06	3.4	0.94	<0.1	0.07
AA068711	Soil	21.1	11.0	0.27	50.1	0.006	2	0.95	0.008	0.04	0.1	3.0	0.04	0.03	39	0.7	0.10	2.1	0.59	<0.1	0.11
AA068712	Soil	11.5	4.5	0.08	67.0	0.010	3	0.94	0.028	0.03	<0.1	0.9	0.04	0.11	43	0.4	0.03	2.0	0.34	<0.1	0.03
AA068713	Soil	15.0	9.5	0.16	82.9	0.006	1	1.02	0.012	0.03	0.1	2.0	0.07	0.11	48	0.6	0.06	2.8	0.57	<0.1	0.06
AA068714	Soil	10.2	12.9	0.36	37.7	0.006	1	1.28	0.022	0.02	<0.1	0.5	0.04	0.04	21	0.1	0.03	4.0	0.73	<0.1	0.03
AA068715	Soil	15.6	22.9	0.73	26.1	0.005	<1	1.94	0.015	0.02	<0.1	1.2	0.03	0.03	14	<0.1	0.04	5.2	0.79	<0.1	0.08
AA068716	Soil	7.8	10.1	0.13	19.7	0.006	<1	0.84	0.018	0.03	<0.1	0.2	0.04	0.05	25	0.2	0.03	4.2	0.85	<0.1	<0.02
AA068717	Soil	30.6	36.6	1.51	14.5	0.001	<1	2.96	0.002	0.05	<0.1	2.4	<0.02	<0.02	8	<0.1	0.10	7.4	0.96	<0.1	0.05
AA068718	Soil	16.9	31.0	1.00	17.1	0.002	<1	2.23	0.004	0.03	<0.1	1.3	0.03	0.05	25	0.2	0.11	6.4	1.12	<0.1	0.14
AA068719	Soil	37.1	38.0	1.46	14.6	0.001	<1	2.72	0.003	0.03	<0.1	2.8	0.03	<0.02	20	0.2	0.14	7.2	0.91	<0.1	0.07
AA068720	Soil	10.4	19.1	0.52	22.8	0.007	1	1.53	0.016	0.03	<0.1	0.7	0.03	0.03	22	0.3	0.04	4.5	0.57	<0.1	0.10



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**Project:** None Given  
**Report Date:** September 08, 2016

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**Part:** 3 of 3

# CERTIFICATE OF ANALYSIS

WHI16000179.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA068691	Soil	0.06	1.5	0.1	<0.05	8.9	12.02	33.1	0.04	<1	0.5	43.5	<10	<2
AA068692	Soil	0.07	2.2	0.2	<0.05	8.9	17.51	37.1	0.06	<1	0.6	39.7	<10	2
AA068693	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
AA068694	Soil	0.14	2.4	0.5	<0.05	6.0	17.77	42.5	0.05	<1	0.7	30.5	<10	<2
AA068695	Soil	0.03	1.8	0.4	<0.05	7.7	12.55	24.4	0.04	<1	0.6	62.8	<10	<2
AA068696	Soil	0.07	3.4	0.5	<0.05	10.0	10.74	33.8	0.04	<1	0.8	60.1	<10	<2
AA068697	Soil	0.07	3.0	0.5	<0.05	7.6	18.82	30.6	0.05	<1	0.8	25.4	<10	<2
AA068698	Soil	0.08	1.9	0.1	<0.05	6.9	11.41	27.8	0.02	<1	0.5	36.5	<10	<2
AA068699	Soil	0.03	2.4	0.2	<0.05	7.5	10.40	25.5	0.03	<1	0.6	41.8	<10	<2
AA068700	Soil	<0.02	2.1	0.2	<0.05	10.7	8.61	31.0	0.02	<1	0.6	50.8	<10	<2
AA068701	Soil	0.20	2.8	0.1	<0.05	2.0	3.63	12.2	<0.02	<1	0.3	27.5	<10	<2
AA068702	Soil	0.04	2.2	0.2	<0.05	10.7	9.10	31.7	0.04	<1	0.4	47.6	<10	<2
AA068703	Soil	0.09	2.4	0.9	<0.05	7.3	11.48	25.0	0.03	<1	0.4	40.1	<10	<2
AA068704	Soil	0.03	2.4	0.2	<0.05	8.3	8.70	29.2	0.03	<1	0.3	47.7	<10	<2
AA068705	Soil	0.12	2.2	0.4	<0.05	8.7	13.13	37.9	0.04	<1	0.3	15.4	<10	<2
AA068706	Soil	0.09	3.1	0.5	<0.05	9.7	9.69	19.6	0.04	1	0.6	47.3	<10	<2
AA068707	Soil	0.29	3.6	0.3	<0.05	2.9	6.42	35.5	0.04	<1	0.6	68.9	<10	<2
AA068708	Soil	0.33	5.0	0.4	<0.05	2.4	12.42	29.3	0.03	<1	0.5	16.4	<10	<2
AA068709	Soil	0.20	3.1	0.3	<0.05	9.3	10.11	30.2	0.03	<1	0.4	20.8	<10	<2
AA068710	Soil	0.43	3.9	0.4	<0.05	3.9	27.07	61.4	0.07	<1	0.7	37.7	<10	<2
AA068711	Soil	0.25	3.4	0.3	<0.05	4.4	12.09	35.5	0.04	<1	0.3	16.9	<10	<2
AA068712	Soil	0.51	2.6	0.2	<0.05	1.8	8.44	20.2	0.02	<1	0.5	3.9	<10	<2
AA068713	Soil	0.42	3.0	0.5	<0.05	2.0	9.40	27.3	0.03	<1	0.7	10.2	<10	<2
AA068714	Soil	0.19	2.4	0.2	<0.05	1.0	2.48	18.0	<0.02	<1	0.3	27.7	<10	<2
AA068715	Soil	0.17	2.2	0.1	<0.05	2.6	2.35	26.8	<0.02	<1	0.4	55.8	<10	<2
AA068716	Soil	0.16	3.4	0.3	<0.05	0.5	1.55	13.7	<0.02	<1	0.1	8.3	<10	<2
AA068717	Soil	<0.02	2.1	0.2	<0.05	3.5	4.97	53.4	0.02	<1	0.4	108.5	<10	<2
AA068718	Soil	0.14	3.5	0.2	<0.05	4.7	2.93	29.8	0.02	<1	0.3	69.8	<10	<2
AA068719	Soil	<0.02	1.8	0.2	<0.05	3.2	9.57	66.8	0.03	<1	0.4	103.9	<10	<2
AA068720	Soil	0.17	2.7	0.4	<0.05	2.6	1.48	19.3	<0.02	<1	0.2	40.5	<10	<2



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000179.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P		
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001		
AA068721	Soil	0.93	25.94	44.11	52.9	134	18.9	12.3	1234	4.73	21.3	1.0	0.8	1.1	4.6	0.07	0.41	0.59	30	0.02	0.114	
AA068722	Soil	0.32	32.65	31.26	87.5	110	34.0	18.9	842	4.03	4.3	1.4	1.5	14.9	17.9	0.06	0.43	0.31	12	0.17	0.046	
AA068723	Soil	0.31	23.66	16.48	60.9	41	20.6	9.4	430	2.65	3.0	1.0	0.3	2.7	10.4	0.06	0.24	0.29	13	0.09	0.069	
AA068724	Soil	0.30	32.35	25.81	102.9	64	39.4	18.7	596	4.16	4.0	1.3	0.9	12.8	6.3	0.07	0.23	0.35	13	0.05	0.045	
AA068725	Soil	0.31	47.47	40.28	116.0	85	45.3	26.6	948	4.61	20.0	1.9	5.3	18.2	20.5	0.11	1.25	0.73	12	0.22	0.067	
AA068726	Soil	0.34	51.26	49.81	104.6	117	41.4	31.0	952	4.30	16.3	1.9	3.7	17.1	21.1	0.09	1.17	0.67	12	0.24	0.063	
AA068727	Soil	0.40	56.56	49.38	102.6	127	46.2	32.7	983	4.53	11.9	1.6	1.2	19.2	27.2	0.10	0.89	0.70	11	0.30	0.056	
AA068728	Soil	0.34	51.33	45.24	103.0	128	44.4	29.3	914	4.43	12.4	1.6	1.5	18.1	25.0	0.09	0.90	0.63	11	0.28	0.058	
AA068729	Soil	0.35	48.37	50.99	103.8	112	43.5	26.9	936	4.38	13.8	1.7	1.0	16.9	21.6	0.09	0.87	0.58	12	0.22	0.054	
AA068730	Soil	0.62	36.43	46.93	86.5	69	29.8	18.7	993	3.79	13.0	1.3	1.0	4.5	5.3	0.07	0.59	0.52	17	0.03	0.103	
AA068731	Soil	0.35	45.47	41.81	100.6	77	39.8	23.6	860	4.19	12.0	1.6	1.6	13.8	14.4	0.08	0.71	0.57	13	0.15	0.050	
AA068732	Soil	0.69	36.88	27.47	79.0	44	34.9	14.0	412	3.78	13.3	1.4	1.8	5.9	8.2	0.07	0.45	0.45	21	0.07	0.082	
AA068733	Soil	0.49	17.18	10.84	37.3	67	11.5	5.4	272	1.87	5.0	0.7	0.2	0.5	5.3	0.07	0.24	0.24	18	0.03	0.083	
AA068734	Soil	0.67	26.28	19.09	61.7	66	19.6	7.3	409	3.74	11.3	1.1	0.5	1.0	7.7	0.12	0.45	0.51	23	0.06	0.118	
AA068735	Soil	0.95	58.08	50.20	111.9	106	51.5	47.4	1245	4.31	14.9	1.6	1.1	7.9	11.8	0.13	0.51	0.50	15	0.14	0.077	
AA068736	Soil	0.73	103.01	89.30	112.2	225	68.5	84.1	1887	4.82	23.4	4.7	1.9	15.9	13.9	0.17	0.72	0.83	14	0.16	0.092	
AA068737	Soil	0.75	89.56	77.41	101.9	173	55.2	57.6	1275	4.56	20.4	3.0	3.1	16.9	9.5	0.12	0.90	0.77	14	0.12	0.050	
AA068738	Soil	1.15	79.07	50.78	105.1	205	52.6	31.0	635	4.81	12.8	2.6	2.2	14.0	24.8	0.15	0.41	0.72	16	0.34	0.065	
AA068739	Soil	0.84	79.70	49.32	108.9	156	55.2	42.8	884	4.75	10.8	1.8	1.8	16.4	14.9	0.16	0.29	0.66	17	0.23	0.046	
AA068740	Soil	0.70	96.65	59.77	108.0	152	52.5	44.4	724	4.78	16.5	2.8	1.4	16.6	19.6	0.11	0.35	0.73	15	0.28	0.053	
AA068741	Soil	0.75	60.64	62.03	99.7	209	53.3	25.3	442	6.97	16.8	2.6	2.7	13.3	47.5	0.10	0.95	0.52	6	0.66	0.028	
AA068742	Soil	0.50	69.63	43.76	106.1	183	46.3	25.3	404	4.33	10.8	1.9	2.8	15.3	25.4	0.06	0.38	0.59	13	0.35	0.045	
AA068743	Soil	0.29	40.23	35.22	70.9	121	39.8	25.9	498	3.00	24.1	1.4	5.4	16.8	33.2	0.04	0.63	0.34	7	0.48	0.035	
AA068744	Soil	0.33	39.89	37.10	61.6	117	42.9	31.0	382	2.97	15.1	1.7	2.0	27.0	36.1	0.05	1.16	0.35	7	0.35	0.030	
AA068745	Soil	0.72	56.87	28.44	108.8	46	47.8	15.7	544	4.89	23.0	1.9	1.7	8.7	6.1	0.05	0.36	0.48	17	0.09	0.045	
AA068746	Soil	0.68	62.97	39.83	94.8	178	45.0	19.3	902	4.38	26.1	2.2	4.3	5.3	8.5	0.08	1.32	0.60	14	0.30	0.072	
AA068747	Soil	0.81	76.51	58.79	124.1	251	53.9	27.0	1084	5.07	53.1	1.8	18.3	10.3	6.6	0.17	1.50	0.71	14	0.23	0.038	
AA068748	Soil	0.60	79.31	61.99	120.1	105	50.8	30.9	915	4.84	53.9	2.6	5.5	6.2	5.0	0.10	0.45	0.50	19	0.09	0.063	
AA068749	Soil	0.44	44.58	41.13	79.3	74	33.5	16.5	636	3.59	37.3	1.6	3.5	4.6	5.7	0.03	0.26	0.33	20	0.10	0.068	
AA068750	Soil	0.66	69.54	45.49	94.7	153	40.7	27.6	784	4.11	22.3	2.3	2.1	4.7	5.6	0.05	0.32	0.47	19	0.06	0.080	



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000179.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA068721	Soil	16.3	24.0	0.38	32.5	0.006	<1	1.24	0.004	0.03	<0.1	0.7	0.06	0.05	45	0.2	0.07	10.0	3.33	<0.1	<0.02
AA068722	Soil	12.6	19.4	0.61	32.1	0.004	<1	1.59	0.006	0.03	<0.1	3.2	0.03	<0.02	23	0.3	<0.02	4.1	0.61	<0.1	0.10
AA068723	Soil	7.9	16.1	0.38	43.7	0.007	1	1.24	0.015	0.03	<0.1	1.3	0.04	0.04	17	0.4	0.02	3.8	0.66	<0.1	0.03
AA068724	Soil	13.1	23.4	0.76	22.6	0.003	<1	1.80	0.003	0.02	<0.1	2.3	0.03	<0.02	22	0.4	0.03	4.7	0.64	<0.1	0.07
AA068725	Soil	12.1	20.3	0.69	30.7	0.002	<1	1.71	0.003	0.03	<0.1	2.8	0.03	<0.02	18	0.2	0.03	4.3	0.67	<0.1	0.11
AA068726	Soil	10.1	21.0	0.68	37.5	0.002	<1	1.80	0.006	0.03	<0.1	2.6	0.03	<0.02	19	<0.1	0.03	4.4	0.66	<0.1	0.14
AA068727	Soil	13.6	22.9	0.76	35.6	0.002	<1	1.89	0.003	0.04	<0.1	2.6	0.04	<0.02	21	0.2	0.04	4.6	0.63	<0.1	0.18
AA068728	Soil	14.0	21.9	0.73	42.0	0.002	<1	1.82	0.003	0.04	<0.1	2.7	0.03	<0.02	16	0.2	0.03	4.6	0.62	<0.1	0.17
AA068729	Soil	16.3	23.1	0.74	44.0	0.002	<1	1.85	0.003	0.04	<0.1	2.4	0.03	<0.02	14	0.1	0.04	4.8	0.55	<0.1	0.15
AA068730	Soil	15.6	23.6	0.59	29.2	0.006	<1	1.74	0.004	0.04	<0.1	1.4	0.05	0.03	27	0.2	0.05	5.3	0.79	<0.1	0.07
AA068731	Soil	18.5	24.6	0.75	38.0	0.003	<1	1.84	0.002	0.03	<0.1	2.2	0.03	<0.02	16	0.2	0.04	5.1	0.48	<0.1	0.07
AA068732	Soil	19.9	29.2	0.76	25.8	0.012	<1	1.90	0.006	0.04	<0.1	1.4	0.05	0.02	17	0.3	0.05	5.5	0.87	<0.1	0.05
AA068733	Soil	9.4	14.5	0.24	35.8	0.004	<1	0.96	0.011	0.03	<0.1	0.3	0.04	0.07	32	0.3	0.02	3.9	0.83	<0.1	<0.02
AA068734	Soil	12.0	24.9	0.37	40.2	0.004	1	1.26	0.003	0.04	<0.1	0.4	0.06	0.09	39	0.3	0.05	6.2	1.35	<0.1	0.03
AA068735	Soil	14.4	26.5	0.72	34.9	0.003	<1	1.88	0.002	0.02	<0.1	1.7	0.03	0.03	26	0.4	0.06	5.0	0.88	<0.1	0.09
AA068736	Soil	15.2	26.5	0.80	40.1	0.002	1	1.91	0.003	0.03	<0.1	2.8	0.05	0.02	39	0.4	0.08	4.7	0.85	<0.1	0.06
AA068737	Soil	17.1	26.9	0.84	26.7	<0.001	1	1.95	0.002	0.02	<0.1	2.0	0.04	<0.02	21	0.3	0.05	4.9	1.02	<0.1	0.07
AA068738	Soil	20.0	30.8	0.88	29.6	<0.001	<1	2.07	0.003	0.04	<0.1	3.3	0.05	<0.02	14	0.4	0.06	5.2	0.99	<0.1	0.15
AA068739	Soil	17.3	34.7	0.97	25.4	<0.001	<1	2.20	0.003	0.04	<0.1	3.2	0.04	0.03	15	0.2	0.05	6.1	1.16	<0.1	0.15
AA068740	Soil	15.7	32.0	0.96	29.2	<0.001	<1	2.14	0.004	0.04	<0.1	2.6	0.04	0.03	22	0.3	0.09	5.4	1.14	<0.1	0.14
AA068741	Soil	9.2	6.9	0.19	30.3	<0.001	1	0.55	0.002	0.05	<0.1	2.7	0.06	0.24	33	0.7	0.14	1.3	0.42	<0.1	0.19
AA068742	Soil	17.3	26.6	0.81	36.6	<0.001	1	1.93	0.004	0.04	<0.1	2.9	0.04	<0.02	20	0.3	0.05	5.0	0.57	<0.1	0.22
AA068743	Soil	12.7	13.1	0.55	36.0	<0.001	1	1.42	0.002	0.04	<0.1	2.2	0.03	0.03	13	0.4	0.04	2.7	0.70	<0.1	0.16
AA068744	Soil	10.6	10.3	0.45	38.1	<0.001	1	1.23	0.003	0.05	<0.1	2.3	0.04	0.07	16	0.3	0.03	2.3	0.87	<0.1	0.19
AA068745	Soil	19.6	35.6	0.97	17.6	0.001	1	2.45	0.004	0.04	<0.1	2.1	0.03	<0.02	<5	0.2	0.04	6.6	1.53	<0.1	0.07
AA068746	Soil	12.2	25.6	0.72	33.2	0.002	<1	1.90	0.007	0.02	<0.1	3.7	0.03	0.04	40	0.5	0.07	5.3	1.63	<0.1	0.18
AA068747	Soil	17.6	28.2	0.86	17.5	<0.001	<1	2.04	0.004	0.03	<0.1	3.9	<0.02	<0.02	22	0.4	0.10	5.6	1.28	<0.1	0.18
AA068748	Soil	21.2	39.1	1.08	23.4	0.002	<1	2.58	0.006	0.03	<0.1	2.2	0.03	<0.02	19	0.2	0.06	7.7	2.60	<0.1	0.17
AA068749	Soil	16.1	28.5	0.78	15.9	0.008	<1	1.95	0.011	0.02	<0.1	1.5	0.03	<0.02	12	0.2	0.03	5.9	1.70	<0.1	0.10
AA068750	Soil	19.2	32.6	0.91	18.4	0.004	<1	2.25	0.010	0.03	<0.1	1.7	0.03	<0.02	19	0.3	0.03	6.9	2.81	<0.1	0.13



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000179.1

Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA068721	Soil	0.25	4.4	0.3	<0.05	0.7	1.76	27.2	0.02	<1	0.2	27.7	<10	<2
AA068722	Soil	0.05	2.6	0.1	<0.05	6.4	11.24	25.3	0.03	<1	0.5	50.1	<10	<2
AA068723	Soil	0.18	5.3	0.2	<0.05	1.0	4.31	15.0	<0.02	<1	0.2	29.9	<10	<2
AA068724	Soil	0.05	2.4	0.2	<0.05	3.7	7.67	24.4	<0.02	<1	0.5	56.0	<10	2
AA068725	Soil	<0.02	2.2	<0.1	<0.05	8.3	9.00	22.6	0.02	<1	0.6	48.9	<10	<2
AA068726	Soil	0.04	2.5	0.1	<0.05	9.0	8.62	19.8	0.02	<1	0.5	48.9	<10	<2
AA068727	Soil	<0.02	2.4	0.1	<0.05	11.2	8.81	26.8	0.02	1	0.5	55.4	<10	<2
AA068728	Soil	0.09	2.4	0.1	<0.05	10.3	8.54	27.0	0.03	1	0.6	55.3	<10	<2
AA068729	Soil	0.02	2.4	0.1	<0.05	9.7	8.05	31.1	0.02	1	0.6	57.1	<10	<2
AA068730	Soil	0.18	5.5	0.2	<0.05	2.5	4.24	28.7	0.03	<1	0.4	49.5	<10	<2
AA068731	Soil	0.05	2.2	0.2	<0.05	3.8	7.20	34.7	0.03	1	0.4	61.7	<10	<2
AA068732	Soil	0.31	5.1	0.2	<0.05	2.2	3.46	34.8	<0.02	<1	0.3	64.3	<10	<2
AA068733	Soil	0.15	4.6	0.3	<0.05	0.6	1.37	16.2	<0.02	1	<0.1	19.7	<10	<2
AA068734	Soil	0.30	6.7	0.4	<0.05	0.7	1.66	20.4	<0.02	<1	0.2	28.9	<10	<2
AA068735	Soil	0.09	2.5	0.1	<0.05	3.5	5.15	26.5	0.02	<1	0.6	66.2	<10	<2
AA068736	Soil	0.04	2.4	0.2	<0.05	3.2	10.60	26.7	0.02	1	1.0	75.2	<10	<2
AA068737	Soil	0.02	1.8	0.2	<0.05	3.0	6.40	28.9	0.02	<1	0.9	77.9	<10	<2
AA068738	Soil	0.03	2.2	0.2	<0.05	6.3	9.35	32.0	0.03	<1	0.6	73.9	<10	<2
AA068739	Soil	<0.02	1.8	0.2	<0.05	7.5	7.65	27.9	0.04	<1	0.5	79.5	<10	<2
AA068740	Soil	<0.02	1.9	0.2	<0.05	8.7	7.38	26.0	0.03	<1	0.2	80.2	<10	<2
AA068741	Soil	<0.02	1.7	0.2	<0.05	11.3	9.75	16.5	0.03	1	0.3	12.1	<10	<2
AA068742	Soil	0.04	2.4	0.2	<0.05	9.7	9.02	29.1	0.02	<1	0.3	63.7	<10	<2
AA068743	Soil	0.03	2.5	0.2	<0.05	6.3	7.77	23.3	0.02	<1	0.5	29.2	<10	<2
AA068744	Soil	0.04	3.3	0.2	<0.05	9.7	9.55	19.8	0.02	<1	0.5	20.6	<10	<2
AA068745	Soil	0.04	2.2	0.1	<0.05	4.2	2.79	30.9	0.02	<1	0.3	77.6	<10	<2
AA068746	Soil	0.10	2.3	0.2	<0.05	5.9	11.40	19.7	0.04	<1	0.4	54.0	<10	<2
AA068747	Soil	<0.02	1.9	0.1	<0.05	8.9	9.09	30.5	0.04	<1	0.5	61.4	<10	<2
AA068748	Soil	0.06	2.5	0.4	<0.05	5.2	3.72	34.5	0.03	<1	0.4	80.4	<10	<2
AA068749	Soil	0.10	2.1	0.1	<0.05	3.8	2.40	26.6	0.02	<1	0.3	57.7	<10	<2
AA068750	Soil	0.09	2.8	0.2	<0.05	4.4	3.23	32.2	0.02	<1	0.2	69.4	<10	<2



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000179.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
AA068751	Soil	0.33	33.08	26.95	78.2	226	27.0	11.7	418	2.60	17.5	2.5	6.0	3.5	509.5	0.24	1.74	0.30	7	10.26	0.123
AA068752	Soil	0.56	45.06	37.60	90.4	294	48.8	18.1	312	4.66	29.9	4.5	11.3	5.2	231.9	0.18	3.68	0.49	7	6.15	0.096
AA068753	Soil	0.41	39.59	24.49	76.3	208	35.1	14.5	160	3.46	18.3	2.9	5.4	8.5	386.9	0.08	1.68	0.37	7	10.90	0.088
AA068754	Soil	0.49	34.08	27.53	85.3	208	34.2	13.6	346	3.12	19.7	2.4	6.1	7.4	391.8	0.17	2.15	0.36	7	9.13	0.081
AA068755	Soil	0.39	38.41	27.05	79.3	180	38.6	16.5	193	3.35	18.8	2.2	3.0	12.5	350.4	0.09	1.12	0.37	7	9.92	0.070
AA068756	Soil	0.42	39.96	27.50	85.4	195	40.3	16.0	214	3.50	18.9	2.3	3.2	11.6	296.2	0.13	1.29	0.38	7	8.44	0.081
AA068757	Soil	0.51	57.51	35.09	118.7	163	49.3	25.1	440	4.63	37.3	1.7	13.8	17.2	30.2	0.11	1.24	0.58	16	0.40	0.073
AA068758	Soil	0.49	40.29	26.27	93.3	84	40.3	17.2	344	3.90	38.0	1.7	14.5	9.4	51.6	0.12	1.69	0.45	13	0.91	0.040
AA068759	Soil	0.47	85.90	20.43	69.4	206	38.9	18.7	238	2.94	69.1	2.6	490.7	16.8	15.2	0.04	1.88	0.47	4	0.19	0.020
AA068760	Soil	0.25	12.03	9.85	87.6	115	9.2	4.2	423	1.12	4.7	1.9	2.2	0.1	224.6	0.41	0.70	0.14	5	8.75	0.120
AA068761	Soil	0.58	21.20	14.90	57.1	140	16.5	6.5	375	2.31	12.4	2.5	2.8	1.2	522.8	0.37	1.14	0.14	5	18.07	0.123
AA068762	Soil	0.46	51.51	28.70	120.9	176	42.1	16.5	384	4.39	17.6	2.1	4.4	13.3	37.1	0.15	1.16	0.45	13	1.03	0.078
AA068763	Soil	0.66	46.60	35.07	105.6	169	42.2	15.7	330	4.00	126.3	1.5	28.8	6.0	37.7	0.19	1.68	0.45	13	0.72	0.067
AA068764	Soil	0.93	36.52	25.33	63.6	90	25.7	14.0	1025	4.82	30.2	1.2	2.7	1.1	5.9	0.12	0.54	0.51	22	0.03	0.143
AA068765	Soil	0.72	64.40	47.47	103.8	56	52.9	28.4	1458	4.80	30.5	0.8	2.6	6.4	4.8	0.06	0.59	0.67	18	0.07	0.053
AA068766	Soil	0.54	41.14	13.45	57.6	47	25.9	9.4	494	2.79	11.9	1.6	2.1	2.2	5.2	0.05	0.38	0.36	15	0.05	0.091
AA068767	Soil	1.00	95.54	57.13	131.1	90	69.9	46.8	2303	5.97	32.0	2.3	1.3	12.8	5.5	0.21	1.85	0.70	16	0.10	0.058
AA068768	Soil	0.40	39.65	31.36	101.3	115	45.5	42.2	710	3.87	4.0	1.6	4.0	14.3	15.3	0.07	0.22	0.37	12	0.11	0.029
AA068769	Soil	0.30	53.74	51.89	112.5	193	44.8	32.5	1329	4.61	7.1	1.5	1.6	24.2	21.4	0.08	0.35	0.55	12	0.30	0.066
AA068770	Soil	0.38	55.89	55.06	114.5	156	46.0	34.1	1236	4.64	8.7	1.5	1.6	22.7	22.7	0.10	0.48	0.70	12	0.28	0.060
AA068771	Soil	0.40	50.81	43.30	109.3	128	41.4	23.7	1308	4.72	8.3	1.7	1.9	21.9	18.2	0.14	0.54	0.56	13	0.21	0.063
AA068772	Soil	0.34	108.76	34.92	67.5	131	29.2	19.6	967	3.64	9.8	1.5	4.1	17.8	18.9	0.11	1.05	0.49	10	0.23	0.048
AA068773	Soil	0.41	56.17	39.25	79.0	131	34.4	20.0	748	3.82	10.3	1.4	1.0	17.9	19.1	0.08	0.97	0.53	10	0.22	0.053
AA068774	Soil	0.75	47.36	48.75	92.6	153	42.0	23.9	971	4.33	12.6	1.7	1.3	20.9	21.9	0.12	1.09	0.63	11	0.24	0.061
AA068775	Soil	0.39	38.37	33.96	84.6	84	36.3	19.2	635	3.85	12.4	1.3	<0.2	15.1	15.0	0.08	1.29	0.50	11	0.16	0.055
AA068776	Soil	0.51	44.96	42.12	90.2	86	39.2	21.4	742	3.99	14.0	1.7	1.0	15.1	15.3	0.09	1.28	0.54	12	0.17	0.053
AA068777	Soil	0.51	45.10	38.98	98.9	92	41.5	21.3	662	4.29	13.8	2.3	1.3	13.7	12.7	0.09	1.03	0.59	14	0.13	0.050
AA068778	Soil	0.45	44.50	34.65	93.9	93	38.8	18.1	575	4.16	12.1	2.1	2.0	12.8	13.2	0.06	0.86	0.60	12	0.14	0.053
AA068779	Soil	0.87	52.10	36.79	85.5	57	34.5	20.8	618	4.00	16.3	3.3	0.7	8.0	3.7	0.06	0.51	0.64	14	0.02	0.068
AA068780	Soil	0.39	33.17	23.88	61.6	50	25.2	16.0	546	2.67	5.6	1.6	<0.2	3.8	7.1	0.06	0.21	0.33	11	0.07	0.068



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000179.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA068751	Soil	25.6	5.4	0.17	47.8	0.002	2	0.66	0.013	0.04	<0.1	3.4	0.05	0.05	76	0.6	0.08	1.1	0.58	<0.1	0.10
AA068752	Soil	41.7	6.0	0.16	34.7	<0.001	<1	0.55	0.004	0.03	0.1	4.2	0.05	0.04	112	0.9	0.08	1.0	0.60	<0.1	0.05
AA068753	Soil	33.0	7.3	0.34	30.6	0.001	<1	0.71	0.005	0.03	<0.1	3.2	0.04	<0.02	82	0.7	0.08	1.5	0.72	<0.1	0.09
AA068754	Soil	27.1	8.2	0.31	31.5	0.001	4	0.68	0.006	0.06	0.1	3.9	0.05	0.04	103	0.6	0.13	1.6	0.71	<0.1	0.10
AA068755	Soil	24.1	8.7	0.39	28.0	<0.001	<1	0.83	0.005	0.05	<0.1	3.1	0.05	<0.02	65	0.6	0.10	1.7	1.00	<0.1	0.15
AA068756	Soil	26.5	8.8	0.37	31.6	0.001	<1	0.86	0.005	0.05	<0.1	3.5	0.05	<0.02	63	0.6	0.08	1.9	0.90	<0.1	0.10
AA068757	Soil	17.6	24.7	0.59	47.1	0.010	1	1.72	0.004	0.06	<0.1	4.5	0.03	<0.02	17	0.2	0.06	4.3	0.95	<0.1	0.26
AA068758	Soil	21.1	16.3	0.39	39.0	0.007	<1	1.07	0.003	0.02	0.2	2.8	0.02	<0.02	29	0.4	0.06	2.7	0.36	<0.1	0.10
AA068759	Soil	12.1	2.3	0.02	47.8	<0.001	<1	0.34	0.002	0.03	0.2	3.1	0.04	<0.02	12	0.2	0.05	0.6	1.42	<0.1	0.06
AA068760	Soil	10.4	4.1	0.10	49.2	0.002	4	0.40	0.004	0.02	0.2	0.5	0.05	0.16	107	0.8	0.07	0.7	0.15	<0.1	<0.02
AA068761	Soil	18.0	4.4	0.15	36.4	0.003	8	0.59	0.005	0.03	0.1	1.7	0.06	0.08	95	0.5	0.10	1.0	0.24	<0.1	0.10
AA068762	Soil	29.6	18.4	0.60	36.3	0.008	2	1.52	0.007	0.05	<0.1	4.7	0.05	<0.02	28	0.6	0.08	3.7	0.75	<0.1	0.15
AA068763	Soil	17.5	23.1	0.73	23.6	0.002	1	1.70	0.004	0.03	0.2	2.7	0.03	0.03	20	0.4	0.06	4.3	0.89	<0.1	0.14
AA068764	Soil	11.1	31.4	0.55	33.0	0.006	1	1.82	0.005	0.03	<0.1	0.7	0.05	0.08	32	0.4	0.07	6.9	1.33	<0.1	0.06
AA068765	Soil	26.6	32.3	1.28	21.0	0.002	<1	2.57	0.002	0.03	<0.1	2.0	<0.02	<0.02	13	0.1	0.13	6.5	0.72	<0.1	0.11
AA068766	Soil	13.1	22.2	0.60	36.4	0.004	<1	1.73	0.010	0.03	<0.1	1.2	0.04	0.04	20	0.2	0.05	5.0	1.73	<0.1	0.12
AA068767	Soil	18.4	29.9	0.99	17.0	0.001	<1	2.27	0.004	0.04	<0.1	5.2	0.04	<0.02	33	0.4	0.08	5.9	2.27	<0.1	0.15
AA068768	Soil	11.6	21.7	0.60	41.2	0.002	<1	1.59	0.003	0.02	<0.1	2.8	0.05	<0.02	25	0.2	0.03	4.2	1.25	<0.1	0.09
AA068769	Soil	11.5	25.2	0.89	45.0	0.001	<1	2.22	0.002	0.06	<0.1	3.1	0.04	<0.02	29	0.3	0.02	5.1	1.27	<0.1	0.21
AA068770	Soil	11.3	26.4	0.87	28.1	0.001	<1	2.03	0.002	0.03	<0.1	3.4	0.03	<0.02	32	0.3	0.04	5.4	0.69	<0.1	0.21
AA068771	Soil	17.1	27.2	0.84	37.8	0.002	2	2.05	0.004	0.05	<0.1	3.9	0.03	<0.02	41	0.3	0.03	5.3	0.70	<0.1	0.18
AA068772	Soil	13.0	17.0	0.58	39.3	0.002	2	1.67	0.004	0.03	<0.1	2.7	0.04	<0.02	21	0.3	0.03	3.9	0.57	<0.1	0.13
AA068773	Soil	15.4	20.5	0.64	30.4	0.002	1	1.62	0.003	0.03	<0.1	2.4	0.03	<0.02	27	0.1	0.04	4.3	0.50	<0.1	0.16
AA068774	Soil	19.4	24.8	0.72	35.5	0.001	1	1.78	0.003	0.04	<0.1	3.0	0.04	<0.02	29	0.2	0.05	4.7	0.63	<0.1	0.13
AA068775	Soil	17.8	20.9	0.64	27.4	0.002	1	1.62	0.002	0.02	<0.1	2.1	0.03	<0.02	13	0.1	0.04	4.4	0.44	<0.1	0.09
AA068776	Soil	18.0	23.6	0.67	30.5	0.002	<1	1.71	0.002	0.03	<0.1	2.3	0.04	<0.02	16	0.1	0.04	4.7	0.52	<0.1	0.10
AA068777	Soil	21.0	27.3	0.75	34.4	0.002	<1	1.93	0.002	0.03	<0.1	2.4	0.04	<0.02	20	0.1	0.06	5.3	0.79	<0.1	0.09
AA068778	Soil	17.4	23.9	0.69	37.6	0.002	<1	1.86	0.003	0.03	<0.1	2.3	0.04	<0.02	18	0.1	0.05	4.7	0.67	<0.1	0.12
AA068779	Soil	18.7	27.1	0.63	33.5	0.001	<1	1.94	0.007	0.03	<0.1	1.7	0.06	0.02	22	0.3	0.07	5.4	1.63	<0.1	0.12
AA068780	Soil	13.6	17.9	0.45	52.1	0.003	<1	1.58	0.011	0.02	<0.1	1.3	0.04	0.03	21	0.2	0.03	4.2	1.09	<0.1	0.06



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**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000179.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA068751	Soil	0.14	3.3	0.6	<0.05	3.9	14.31	43.5	0.04	<1	0.6	6.2	<10	<2
AA068752	Soil	0.05	3.2	0.7	<0.05	2.7	18.74	70.6	0.05	<1	0.5	5.9	<10	<2
AA068753	Soil	0.06	2.4	0.2	<0.05	5.7	10.22	52.7	0.03	<1	0.4	14.9	<10	<2
AA068754	Soil	0.06	3.2	1.1	<0.05	6.1	11.80	47.4	0.03	<1	0.2	15.5	<10	<2
AA068755	Soil	0.03	2.4	0.3	<0.05	10.0	9.22	42.0	0.04	<1	0.4	19.3	<10	<2
AA068756	Soil	0.04	2.5	0.3	<0.05	7.6	10.40	45.4	0.03	<1	0.3	18.0	<10	<2
AA068757	Soil	0.12	3.5	0.3	<0.05	15.6	11.00	32.1	0.03	<1	0.6	44.5	<10	<2
AA068758	Soil	0.23	2.4	0.2	<0.05	5.3	9.70	38.5	0.03	<1	0.4	27.4	<10	<2
AA068759	Soil	0.02	2.9	0.4	<0.05	6.4	5.68	22.1	0.03	<1	0.4	1.6	<10	3
AA068760	Soil	0.18	2.0	0.4	<0.05	0.7	6.82	17.2	<0.02	<1	0.4	2.0	<10	<2
AA068761	Soil	0.14	3.9	1.3	<0.05	2.7	12.72	31.9	0.02	1	0.6	2.0	<10	<2
AA068762	Soil	0.20	4.1	0.4	<0.05	8.5	16.56	49.6	0.04	<1	0.3	36.4	<10	2
AA068763	Soil	0.11	2.6	0.1	<0.05	5.8	7.87	30.7	0.03	<1	0.7	51.7	<10	<2
AA068764	Soil	0.33	4.4	0.4	<0.05	2.2	2.99	20.6	0.03	<1	0.5	37.0	<10	<2
AA068765	Soil	0.03	2.2	0.1	<0.05	4.5	3.38	47.2	0.03	<1	0.2	88.6	<10	<2
AA068766	Soil	0.19	4.1	0.2	<0.05	3.5	4.22	22.9	<0.02	<1	0.2	44.7	<10	<2
AA068767	Soil	<0.02	1.8	0.1	<0.05	12.0	11.69	31.1	0.05	<1	0.6	67.7	<10	4
AA068768	Soil	0.07	3.6	0.4	<0.05	5.6	10.79	23.4	0.03	<1	0.6	48.3	<10	<2
AA068769	Soil	<0.02	3.0	0.2	<0.05	12.3	12.22	21.7	0.02	<1	0.7	65.6	<10	<2
AA068770	Soil	0.03	2.0	0.1	<0.05	13.4	11.95	23.7	0.03	<1	0.8	65.7	<10	<2
AA068771	Soil	0.02	3.4	0.3	<0.05	11.0	12.87	34.3	0.04	<1	0.6	65.0	<10	<2
AA068772	Soil	0.04	2.7	0.4	<0.05	7.3	12.30	26.9	0.04	<1	0.2	43.0	<10	<2
AA068773	Soil	0.02	2.2	0.7	<0.05	9.1	10.10	30.0	0.04	<1	0.6	51.7	<10	<2
AA068774	Soil	0.02	2.8	3.8	<0.05	8.1	11.27	36.8	0.04	<1	0.4	56.8	<10	2
AA068775	Soil	0.03	1.9	0.8	<0.05	4.4	8.33	33.8	0.02	<1	0.3	52.1	<10	<2
AA068776	Soil	0.03	2.2	2.0	<0.05	5.1	8.27	34.9	0.02	<1	0.4	56.3	<10	<2
AA068777	Soil	0.10	3.4	1.1	<0.05	4.0	8.17	37.7	0.03	<1	0.5	65.1	<10	<2
AA068778	Soil	0.07	3.6	1.0	<0.05	4.0	8.41	32.6	0.03	<1	0.6	56.0	<10	<2
AA068779	Soil	0.11	3.9	0.4	<0.05	4.2	3.34	31.9	0.03	<1	0.5	51.1	<10	<2
AA068780	Soil	0.19	3.4	0.6	<0.05	2.8	6.81	23.4	0.02	<1	0.4	36.8	<10	<2



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000179.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	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
AA068781	Soil	0.52	38.11	32.91	84.5	86	31.1	22.8	726	3.34	10.7	1.4	0.5	6.1	7.6	0.10	0.39	0.40	13	0.07	0.071
AA068782	Soil	0.62	56.51	61.26	101.5	39	45.6	49.6	1560	4.57	15.4	2.1	<0.2	11.5	6.5	0.08	0.47	0.61	14	0.05	0.077
AA068783	Soil	0.73	55.32	57.24	101.1	58	40.0	39.1	1073	4.69	17.1	1.6	0.5	9.2	6.3	0.10	0.56	0.72	16	0.07	0.097
AA068784	Soil	0.92	87.39	50.89	100.6	202	54.8	37.8	896	4.47	12.8	2.3	0.7	13.8	14.6	0.13	0.38	0.66	15	0.20	0.057
AA068785	Soil	0.90	59.83	52.14	91.4	76	36.4	32.8	882	4.02	11.5	1.6	0.5	5.5	18.1	0.08	0.34	0.46	14	0.32	0.078
AA068786	Soil	0.67	86.42	62.50	97.6	188	50.6	37.2	722	4.56	12.1	1.2	1.2	9.3	21.4	0.07	0.32	0.71	15	0.39	0.038
AA068787	Soil	0.52	57.94	36.31	97.8	150	42.9	15.8	262	4.10	8.1	2.1	0.5	10.1	35.2	0.10	0.32	0.51	13	0.67	0.066
AA068788	Soil	0.86	62.51	35.73	105.1	141	50.4	25.3	391	4.47	9.5	1.7	1.0	14.9	28.0	0.08	0.42	0.48	12	0.55	0.050
AA068789	Soil	0.44	64.67	39.08	105.7	160	48.0	29.6	432	4.42	12.4	1.9	2.1	16.4	27.5	0.08	0.64	0.56	11	0.35	0.052
AA068790	Soil	0.61	67.14	58.14	108.3	191	49.5	29.3	661	4.84	12.9	2.7	0.9	16.5	47.1	0.13	0.65	0.55	11	0.91	0.073
AA068791	Soil	0.47	46.98	45.22	96.4	124	48.6	28.5	359	4.08	18.1	1.7	5.3	18.7	27.5	0.07	0.93	0.38	9	0.26	0.046
AA068792	Soil	0.75	89.20	57.14	134.0	147	60.2	34.9	923	5.91	26.8	2.5	1.6	10.1	5.2	0.10	0.41	0.60	22	0.14	0.078
AA068793	Soil	0.73	73.29	59.11	124.2	180	56.3	21.3	815	5.78	40.7	2.6	2.7	8.9	10.2	0.07	0.77	0.80	21	0.11	0.086
AA068794	Soil	1.10	55.00	43.45	103.5	81	45.5	23.7	1270	5.40	34.5	2.3	1.7	7.1	9.1	0.08	1.03	0.58	19	0.05	0.086
AA068795	Soil	1.10	55.05	40.83	101.7	82	46.2	24.4	1277	5.44	34.4	2.3	2.5	7.1	9.2	0.09	1.03	0.57	19	0.05	0.084
AA068796	Soil	0.97	69.06	42.52	100.6	83	46.9	24.2	1590	4.99	37.0	2.1	1.5	4.9	6.5	0.05	1.09	0.66	19	0.06	0.081
AA068797	Soil	0.84	66.17	37.74	103.7	110	49.8	23.5	1258	5.05	29.5	2.0	5.2	7.0	7.1	0.03	0.90	0.59	18	0.08	0.067
AA068798	Soil	0.90	81.49	65.58	111.4	115	54.1	29.5	2082	5.24	35.4	2.3	2.2	7.6	11.6	0.05	1.06	0.70	19	0.09	0.070
AA068799	Soil	1.28	88.26	64.17	101.9	150	55.9	45.5	3315	5.00	41.2	1.7	3.0	6.5	7.4	0.05	1.40	0.66	17	0.08	0.062
AA068800	Soil	2.24	95.34	86.73	101.9	131	65.6	62.4	3975	4.92	62.5	3.5	3.4	7.2	11.5	0.14	2.38	0.97	17	0.11	0.062
AA068801	Soil	0.40	48.04	34.42	108.7	89	40.7	19.4	397	3.99	15.0	1.7	1.7	13.1	16.1	0.10	0.44	0.55	15	0.18	0.062
AA068802	Soil	0.63	55.48	63.48	70.8	105	26.6	40.7	853	2.57	16.0	2.1	4.0	9.5	7.5	0.07	0.48	0.56	13	0.07	0.066
AA068803	Soil	0.46	47.41	48.06	82.3	268	34.5	32.2	1250	3.54	1022.9	2.4	241.3	14.3	19.8	0.15	1.44	0.50	10	0.07	0.056
AA068804	Soil	0.92	29.24	33.04	57.8	109	18.1	7.1	208	2.41	95.5	1.1	9.7	3.1	11.0	0.07	0.50	0.40	19	0.07	0.092
AA068805	Soil	0.47	59.72	50.96	116.7	203	41.8	26.9	398	4.15	133.7	4.9	8.9	12.7	35.0	0.14	0.79	0.53	12	0.34	0.063
AA068806	Soil	0.50	60.42	52.96	111.2	223	43.0	27.6	513	4.26	68.9	2.9	9.1	12.9	32.1	0.09	0.87	0.50	12	0.42	0.066
AA068807	Soil	0.78	39.42	29.11	75.5	201	37.4	15.5	261	3.76	11.9	1.7	2.1	8.7	24.2	0.11	0.44	0.35	11	0.42	0.045
AA068808	Soil	0.45	50.19	38.67	106.2	155	42.1	20.8	571	4.48	11.8	2.2	4.2	12.4	80.4	0.15	0.49	0.48	12	1.92	0.093
AA068809	Soil	0.26	23.05	26.97	67.1	158	21.0	8.5	410	3.25	7.1	1.6	1.9	3.3	34.6	0.16	0.36	0.32	10	0.62	0.096
AA068810	Soil	0.87	58.10	50.10	80.2	154	38.4	18.8	1566	4.35	33.2	2.0	3.8	4.5	15.9	0.09	1.20	0.58	15	0.67	0.108



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000179.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sc ppm	Tl ppm	S %	Hg ppb	Se ppm	Te ppm	Ga ppm	Cs ppm	Ge ppm	Hf ppm	
AA068781	Soil	12.1	22.1	0.58	28.5	0.004	<1	1.68	0.008	0.02	<0.1	1.2	0.03	<0.02	17	0.2	0.05	4.5	0.74	<0.1	0.07
AA068782	Soil	12.6	26.4	0.76	24.8	0.002	<1	1.98	0.003	0.02	<0.1	2.1	0.04	<0.02	13	0.2	0.07	5.0	0.79	<0.1	0.11
AA068783	Soil	17.1	29.6	0.73	34.0	0.001	<1	2.09	0.003	0.03	<0.1	1.6	0.04	<0.02	13	0.3	0.08	5.5	1.25	<0.1	0.10
AA068784	Soil	23.2	31.4	0.83	39.1	0.001	<1	2.08	0.005	0.03	<0.1	2.9	0.05	<0.02	29	0.4	0.07	5.7	1.15	<0.1	0.06
AA068785	Soil	15.3	25.4	0.67	51.4	0.002	1	1.86	0.010	0.03	<0.1	2.5	0.05	0.03	19	0.4	0.08	4.9	1.01	<0.1	0.13
AA068786	Soil	20.4	31.7	0.90	31.7	<0.001	<1	2.10	0.004	0.04	<0.1	3.3	0.04	0.02	24	0.5	0.09	5.5	0.79	<0.1	0.15
AA068787	Soil	16.3	27.8	0.83	20.7	<0.001	1	1.87	0.004	0.03	<0.1	3.0	0.03	0.04	23	0.4	0.07	5.0	0.55	<0.1	0.25
AA068788	Soil	12.8	26.6	0.80	29.6	<0.001	<1	1.82	0.004	0.05	<0.1	3.0	0.03	0.06	31	0.4	0.07	4.7	0.53	<0.1	0.19
AA068789	Soil	13.6	22.0	0.71	28.8	0.001	<1	1.62	0.004	0.04	<0.1	2.6	0.03	0.03	23	0.3	0.10	4.2	0.56	<0.1	0.17
AA068790	Soil	12.5	23.3	0.72	28.2	<0.001	<1	1.67	0.003	0.05	<0.1	3.6	0.04	0.08	38	0.4	0.10	4.1	0.75	<0.1	0.12
AA068791	Soil	6.2	19.0	0.55	20.3	<0.001	<1	1.34	0.002	0.04	<0.1	2.1	0.03	0.08	14	0.3	0.05	3.5	0.65	<0.1	0.13
AA068792	Soil	29.8	47.5	1.35	18.6	<0.001	<1	3.16	0.003	0.02	<0.1	2.6	0.02	<0.02	14	0.2	0.05	9.0	2.64	<0.1	0.10
AA068793	Soil	20.9	43.7	1.36	17.6	0.001	<1	3.08	0.003	0.02	<0.1	2.5	0.03	<0.02	22	0.1	0.10	8.6	2.06	<0.1	0.20
AA068794	Soil	17.3	34.4	0.95	24.1	0.006	<1	2.29	0.004	0.04	<0.1	2.0	0.05	0.03	27	0.3	0.09	6.0	2.23	<0.1	0.16
AA068795	Soil	18.3	35.4	0.96	24.8	0.006	1	2.34	0.004	0.04	<0.1	2.1	0.05	0.03	31	0.4	0.08	6.2	2.25	<0.1	0.13
AA068796	Soil	19.7	35.7	1.13	22.7	0.001	<1	2.45	0.004	0.03	<0.1	2.2	0.03	0.03	13	0.2	0.11	6.8	2.36	<0.1	0.16
AA068797	Soil	27.5	35.7	1.17	18.0	0.001	<1	2.48	0.003	0.03	<0.1	2.2	0.03	<0.02	17	0.2	0.10	7.0	1.66	<0.1	0.09
AA068798	Soil	23.2	39.4	1.37	22.8	0.001	<1	2.75	0.004	0.03	<0.1	2.5	0.04	0.02	10	0.1	0.10	7.6	1.86	<0.1	0.10
AA068799	Soil	24.1	34.7	1.30	17.9	0.003	<1	2.52	0.005	0.03	<0.1	3.4	0.04	<0.02	28	0.3	0.14	6.7	1.75	<0.1	0.09
AA068800	Soil	17.3	29.1	1.26	23.0	0.002	<1	2.31	0.003	0.02	<0.1	2.7	0.09	<0.02	14	0.1	0.25	6.4	0.95	<0.1	0.09
AA068801	Soil	18.1	24.7	0.70	30.1	0.004	<1	1.75	0.003	0.04	<0.1	2.6	0.04	<0.02	24	0.2	0.08	4.6	0.61	<0.1	0.06
AA068802	Soil	11.2	16.3	0.41	21.1	0.010	<1	1.23	0.012	0.03	<0.1	1.3	0.05	0.02	32	0.4	0.06	3.5	1.05	<0.1	0.02
AA068803	Soil	16.2	13.8	0.41	34.0	0.004	1	1.23	0.006	0.03	<0.1	2.3	0.07	0.03	36	0.3	0.05	3.1	0.72	<0.1	0.04
AA068804	Soil	11.9	17.1	0.44	31.7	0.019	1	1.24	0.019	0.06	0.1	1.9	0.08	0.04	22	0.6	0.03	3.9	1.29	<0.1	<0.02
AA068805	Soil	15.7	19.0	0.58	41.2	0.003	<1	1.63	0.006	0.05	<0.1	3.6	0.04	<0.02	45	0.7	0.07	4.0	0.99	<0.1	0.09
AA068806	Soil	19.7	18.4	0.54	49.9	0.004	2	1.62	0.007	0.05	<0.1	4.0	0.05	0.02	60	0.7	0.10	3.7	1.17	<0.1	0.13
AA068807	Soil	22.8	19.4	0.55	31.7	0.004	<1	1.31	0.002	0.02	<0.1	4.5	0.03	0.03	51	0.6	0.05	3.2	0.36	<0.1	0.16
AA068808	Soil	12.5	18.7	0.67	27.0	0.003	2	1.53	0.002	0.04	<0.1	4.2	0.03	0.06	72	0.5	0.06	3.4	0.36	<0.1	0.15
AA068809	Soil	18.6	9.8	0.29	49.0	0.004	3	1.09	0.011	0.04	<0.1	3.6	0.04	0.06	36	0.2	0.04	2.2	0.19	<0.1	0.18
AA068810	Soil	12.7	21.7	0.78	24.7	0.002	3	1.87	0.009	0.03	<0.1	3.7	0.03	0.05	32	0.2	0.09	4.8	1.65	<0.1	0.11



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000179.1

Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
AA068781	Soil	0.13	3.0	0.6	<0.05	2.6	3.69	22.1	<0.02	<1	0.4	50.9	<10	<2
AA068782	Soil	0.07	3.3	0.6	<0.05	4.2	3.77	23.0	0.03	<1	0.7	65.7	<10	<2
AA068783	Soil	0.06	4.0	0.5	<0.05	3.6	4.25	29.2	0.03	<1	0.5	60.8	<10	<2
AA068784	Soil	0.05	2.6	1.2	<0.05	4.1	8.93	38.0	0.03	<1	0.4	68.4	<10	<2
AA068785	Soil	0.15	3.4	0.7	<0.05	5.4	8.36	27.5	0.04	<1	0.4	53.5	<10	2
AA068786	Soil	0.03	2.4	1.4	<0.05	7.3	10.02	35.0	0.03	<1	0.5	68.7	<10	<2
AA068787	Soil	0.04	2.2	0.7	<0.05	9.5	9.98	28.2	0.03	<1	0.4	62.8	<10	<2
AA068788	Soil	<0.02	2.2	1.3	<0.05	12.8	7.92	21.9	0.02	<1	0.4	63.0	<10	<2
AA068789	Soil	<0.02	2.0	0.6	<0.05	10.9	8.50	23.1	0.02	<1	0.2	53.5	<10	<2
AA068790	Soil	0.02	2.2	1.5	<0.05	8.5	10.49	22.2	0.03	<1	0.6	52.0	<10	<2
AA068791	Soil	<0.02	1.9	0.7	<0.05	10.2	6.80	12.6	0.02	<1	0.4	38.6	<10	<2
AA068792	Soil	0.03	2.1	0.6	<0.05	4.7	4.37	49.1	0.03	<1	0.4	99.2	<10	<2
AA068793	Soil	0.05	2.0	0.6	<0.05	7.9	3.29	33.9	0.03	<1	0.4	101.2	<10	<2
AA068794	Soil	0.27	4.7	1.9	<0.05	5.2	3.00	31.5	0.03	<1	0.4	70.6	<10	<2
AA068795	Soil	0.27	4.6	1.3	<0.05	4.9	3.15	33.1	0.03	<1	0.3	73.0	<10	2
AA068796	Soil	0.06	3.9	1.1	<0.05	5.3	4.40	33.3	0.04	<1	0.5	79.5	<10	<2
AA068797	Soil	0.04	3.2	0.5	<0.05	3.7	3.86	46.2	0.03	<1	0.5	83.4	<10	<2
AA068798	Soil	<0.02	2.2	1.3	<0.05	4.7	4.00	40.1	0.04	<1	0.6	98.6	<10	<2
AA068799	Soil	0.08	3.1	1.5	<0.05	4.4	7.15	42.2	0.03	<1	0.5	88.7	<10	<2
AA068800	Soil	<0.02	1.5	1.1	<0.05	9.4	6.71	30.3	0.03	<1	0.6	86.0	<10	2
AA068801	Soil	0.12	3.4	0.8	<0.05	3.3	8.62	32.4	0.02	<1	0.5	49.0	<10	<2
AA068802	Soil	0.26	4.5	0.5	<0.05	1.0	4.27	22.1	<0.02	<1	0.3	24.2	<10	<2
AA068803	Soil	0.17	3.6	0.7	<0.05	1.4	6.36	33.1	0.03	<1	0.7	23.5	<10	<2
AA068804	Soil	0.51	8.1	0.7	<0.05	0.8	4.91	23.0	0.03	<1	0.3	19.3	<10	<2
AA068805	Soil	0.25	4.1	0.9	<0.05	5.2	11.22	28.8	0.03	<1	0.7	37.7	<10	<2
AA068806	Soil	0.27	4.2	0.4	<0.05	6.1	12.37	36.4	0.04	<1	0.6	35.5	<10	<2
AA068807	Soil	0.31	2.2	0.6	<0.05	6.8	20.26	34.8	0.03	<1	0.4	36.8	<10	<2
AA068808	Soil	0.08	1.7	0.8	<0.05	6.9	10.68	25.5	0.06	<1	0.4	45.9	<10	<2
AA068809	Soil	0.19	2.5	0.4	<0.05	5.9	16.47	31.1	0.05	<1	0.5	19.5	<10	<2
AA068810	Soil	0.09	2.8	0.8	<0.05	3.8	11.45	24.4	0.04	1	0.5	58.2	<10	<2



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**Project:** None Given  
**Report Date:** September 08, 2016

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**Part:** 1 of 3

# CERTIFICATE OF ANALYSIS

# WHI16000179.1

Method Analyte	Unit	MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251		
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
			ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%		
			0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
AA068811	Soil		0.50	33.20	27.17	57.2	50	23.9	12.9	1053	2.97	22.0	1.2	1.4	2.8	4.9	0.04	0.53	0.35	14	0.04	0.065	
AA068812	Soil		0.86	63.93	45.96	96.4	73	50.2	30.3	2642	5.02	35.1	1.6	3.2	5.5	6.7	0.07	1.08	0.61	21	0.08	0.083	
AA068813	Soil		0.68	22.51	25.93	60.1	128	20.1	10.4	684	2.64	19.6	0.8	1.8	1.3	3.4	0.05	0.40	0.31	15	0.02	0.107	
AA068814	Soil		0.69	45.99	27.10	64.8	112	30.5	15.9	992	3.41	29.8	1.4	2.4	1.7	8.1	0.03	1.01	0.51	16	0.16	0.087	
AA068815	Soil		0.94	60.36	47.35	96.4	79	49.6	31.0	2156	5.00	40.5	1.6	3.7	5.6	6.7	0.07	1.34	0.65	20	0.06	0.079	
AA068816	Soil		0.65	49.15	34.03	64.7	40	34.4	22.2	1495	3.65	24.5	0.9	1.6	3.1	5.4	0.03	0.58	0.45	16	0.05	0.069	
AA068817	Soil		0.88	75.55	60.14	95.4	72	49.2	37.7	2208	4.92	35.2	1.0	1.1	6.0	6.9	0.06	0.54	0.70	20	0.14	0.090	
AA068818	Soil		0.68	61.08	41.20	87.0	57	40.9	30.8	1706	4.82	24.4	0.9	1.7	4.9	4.1	0.05	0.35	0.59	23	0.03	0.086	
AA068819	Soil		0.69	22.23	23.04	50.1	227	19.4	13.6	1686	3.98	9.2	0.6	<0.2	0.5	3.3	0.09	0.22	0.37	20	0.02	0.241	
AA068820	Soil		0.94	64.82	42.52	78.2	121	35.0	23.4	1231	4.49	53.4	1.3	2.1	2.8	4.8	0.06	0.65	0.67	20	0.05	0.110	
AA068821	Soil		0.99	89.59	52.98	115.6	176	50.8	40.8	2058	5.42	35.7	5.0	3.1	7.2	9.9	0.11	1.33	0.69	21	0.06	0.100	
AA068822	Soil		0.89	86.70	55.49	116.4	274	54.3	47.4	3152	5.50	32.2	3.4	4.7	6.5	13.0	0.18	1.07	0.68	21	0.11	0.089	
AA068823	Soil		1.67	205.09	106.12	147.4	366	70.7	133.1	3130	5.62	49.9	6.6	3.5	9.9	16.2	0.29	1.40	0.81	22	0.14	0.096	
AA068824	Soil		0.58	55.22	53.24	107.8	102	44.1	25.8	897	4.86	34.9	2.3	8.7	11.6	4.7	0.06	0.55	0.44	19	0.08	0.080	
AA068825	Soil		0.55	37.01	40.25	73.8	73	27.3	19.0	866	3.56	19.5	1.5	2.9	3.0	3.7	0.06	0.38	0.42	16	0.03	0.084	
AA068826	Soil		0.45	45.60	31.93	108.0	120	46.0	20.2	664	4.96	24.2	1.6	4.0	5.6	4.0	0.08	0.47	0.42	19	0.04	0.061	
AA068827	Soil		0.56	49.08	24.28	122.4	104	52.8	20.6	225	4.61	38.1	2.6	11.6	6.7	121.2	0.17	3.89	0.40	9	3.01	0.076	
AA068828	Soil		0.06	6.83	4.73	18.6	28	2.5	1.6	116	0.64	1.3	0.5	0.4	0.2	24.4	0.04	0.10	0.05	7	0.59	0.054	
AA068829	Soil		0.55	26.78	45.62	41.0	82	25.7	13.6	890	3.16	121.6	1.9	20.4	4.8	9.1	0.08	2.23	0.31	11	0.04	0.057	
AA068830	Soil		0.58	37.84	75.08	150.0	352	44.4	20.2	591	4.55	127.8	3.2	4.2	13.5	186.8	0.38	1.32	0.35	10	5.02	0.110	
AA068831	Soil		0.27	17.97	220.96	263.7	421	15.9	9.3	465	2.03	602.4	0.9	61.7	11.3	18.6	1.48	1.38	0.14	5	0.16	0.034	
AA068832	Soil		0.43	46.38	39.03	110.9	230	42.0	20.4	458	4.12	125.1	1.4	31.8	11.1	22.0	0.10	2.04	0.51	11	0.24	0.049	
AA068833	Soil		0.70	51.03	52.17	122.6	219	49.0	26.0	725	4.89	110.3	1.7	31.1	12.3	19.2	0.16	2.87	0.49	13	0.28	0.074	
AA068834	Soil		0.51	53.92	43.14	120.5	224	42.9	30.1	988	4.37	99.2	2.3	14.1	15.4	19.7	0.07	1.36	0.54	11	0.20	0.063	
AA068835	Soil		1.08	77.34	50.60	115.7	145	69.7	50.7	1054	4.67	19.6	3.9	2.4	17.5	30.9	0.17	1.16	0.46	15	0.21	0.075	
AA068836	Soil		1.14	79.29	51.10	116.6	127	69.2	51.0	1091	4.84	18.5	3.9	2.8	17.5	31.4	0.20	1.17	0.44	15	0.21	0.075	
AA068837	Soil		1.67	52.05	44.29	95.4	171	48.7	26.2	567	4.13	19.3	3.5	2.4	15.6	27.7	0.22	1.26	0.41	10	0.31	0.087	
AA068838	Soil		0.32	26.48	20.62	37.3	90	23.4	15.3	624	2.75	57.6	1.6	25.2	25.3	23.1	0.06	0.64	0.19	6	0.34	0.031	
AA068839	Soil		1.33	41.54	36.97	84.0	155	39.9	19.9	359	3.87	39.0	2.2	5.7	14.8	21.3	0.15	0.84	0.38	9	0.34	0.063	
AA068840	Soil		0.87	61.62	57.75	101.4	211	44.5	29.8	865	4.82	15.6	3.6	1.1	17.6	21.4	0.14	0.60	0.58	13	0.29	0.091	



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000179.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA068811	Soil	11.7	18.7	0.68	23.3	0.002	<1	1.69	0.008	0.03	<0.1	1.2	0.03	0.03	16	<0.1	0.06	4.5	1.29	<0.1	0.11
AA068812	Soil	22.5	30.8	1.35	19.1	0.001	1	2.67	0.004	0.03	<0.1	2.7	0.05	<0.02	21	<0.1	0.12	6.8	1.79	<0.1	0.17
AA068813	Soil	10.2	18.7	0.44	21.5	0.002	<1	1.28	0.005	0.03	<0.1	0.4	0.04	0.06	26	<0.1	0.06	4.2	0.83	<0.1	0.03
AA068814	Soil	10.5	20.9	0.83	19.1	0.003	<1	1.75	0.013	0.04	<0.1	1.4	0.04	0.05	24	0.3	0.09	4.7	2.22	<0.1	0.08
AA068815	Soil	21.7	29.2	1.29	20.3	0.002	<1	2.56	0.004	0.03	<0.1	2.3	0.05	0.03	26	<0.1	0.12	6.5	1.70	<0.1	0.14
AA068816	Soil	16.5	23.4	0.96	18.5	0.003	<1	2.00	0.012	0.03	<0.1	1.5	0.03	0.03	30	0.1	0.09	5.5	1.03	<0.1	0.17
AA068817	Soil	23.6	30.9	1.36	16.2	0.002	<1	2.70	0.003	0.03	<0.1	2.7	0.03	0.03	19	<0.1	0.15	6.8	1.45	<0.1	0.11
AA068818	Soil	18.7	30.1	1.13	24.2	0.004	<1	2.55	0.004	0.04	<0.1	2.2	0.05	0.04	66	<0.1	0.07	7.0	1.53	<0.1	0.13
AA068819	Soil	5.6	20.8	0.58	29.0	0.003	<1	1.45	0.003	0.03	<0.1	0.8	0.04	0.16	61	0.1	0.05	5.7	1.24	<0.1	0.04
AA068820	Soil	13.2	27.6	0.92	22.4	0.002	<1	2.08	0.004	0.04	<0.1	1.6	0.03	0.05	22	0.4	0.13	6.2	2.10	<0.1	0.18
AA068821	Soil	26.6	32.9	1.16	20.5	0.003	1	2.65	0.005	0.05	<0.1	3.2	0.07	0.03	59	<0.1	0.06	7.1	2.25	<0.1	0.08
AA068822	Soil	26.2	33.1	1.24	20.7	0.002	<1	2.76	0.005	0.04	<0.1	3.2	0.05	0.02	66	<0.1	0.10	6.8	2.16	<0.1	0.06
AA068823	Soil	27.6	36.3	1.12	32.0	0.002	<1	2.86	0.005	0.06	<0.1	4.0	0.09	0.03	29	0.3	0.08	7.6	6.30	<0.1	0.12
AA068824	Soil	17.8	30.2	0.97	18.0	0.003	<1	2.37	0.005	0.05	<0.1	2.8	0.04	<0.02	10	<0.1	<0.02	6.3	2.62	<0.1	0.04
AA068825	Soil	9.5	22.4	0.63	29.0	0.003	<1	1.84	0.009	0.03	<0.1	1.2	0.04	0.04	22	<0.1	0.04	5.5	2.30	<0.1	0.13
AA068826	Soil	18.8	35.4	1.14	15.9	<0.001	1	2.68	0.004	0.03	<0.1	1.9	0.02	<0.02	<5	0.1	0.04	7.2	1.77	<0.1	0.15
AA068827	Soil	35.9	6.3	0.10	49.4	<0.001	<1	0.76	0.006	0.04	<0.1	4.8	0.06	0.03	38	0.4	0.08	1.1	0.77	<0.1	0.12
AA068828	Soil	5.1	1.7	0.03	32.4	0.011	<1	0.51	0.042	0.02	<0.1	0.8	0.02	0.04	17	0.1	<0.02	1.0	0.13	<0.1	<0.02
AA068829	Soil	8.5	8.9	0.18	32.9	0.004	<1	0.91	0.010	0.04	<0.1	1.9	0.06	0.05	64	0.5	0.03	2.3	0.95	<0.1	0.03
AA068830	Soil	24.7	8.5	0.26	31.2	0.003	<1	0.91	0.005	0.05	<0.1	5.1	0.06	0.02	76	0.4	0.02	1.6	1.31	<0.1	0.06
AA068831	Soil	12.6	7.0	0.20	20.2	<0.001	1	0.81	0.003	0.03	<0.1	1.6	0.02	<0.02	16	<0.1	<0.02	1.6	1.06	<0.1	<0.02
AA068832	Soil	19.8	17.6	0.49	32.3	0.001	1	1.35	0.004	0.04	0.1	3.4	0.03	<0.02	10	<0.1	0.09	3.5	0.72	<0.1	0.12
AA068833	Soil	16.7	20.6	0.66	27.9	0.001	<1	1.61	0.003	0.04	<0.1	3.6	0.02	<0.02	9	<0.1	0.07	3.9	0.68	<0.1	0.16
AA068834	Soil	19.3	13.7	0.38	42.7	0.002	<1	1.29	0.006	0.05	<0.1	3.2	0.04	<0.02	19	<0.1	0.05	2.9	1.30	<0.1	0.07
AA068835	Soil	18.0	24.9	0.80	37.6	0.002	<1	1.95	0.008	0.04	<0.1	2.7	0.04	0.05	22	0.3	0.05	4.5	0.68	<0.1	0.12
AA068836	Soil	17.6	24.9	0.80	38.6	0.001	<1	1.96	0.008	0.04	<0.1	2.8	0.05	0.05	18	<0.1	0.08	4.3	0.72	<0.1	0.17
AA068837	Soil	20.7	14.0	0.45	24.6	0.002	<1	1.16	0.005	0.04	<0.1	4.2	0.03	0.06	45	<0.1	0.04	2.3	0.76	<0.1	0.12
AA068838	Soil	11.5	10.4	0.56	34.1	<0.001	<1	1.63	0.003	0.03	<0.1	2.4	<0.02	0.03	18	<0.1	0.02	2.7	1.04	<0.1	0.14
AA068839	Soil	18.2	13.2	0.50	19.4	0.001	1	1.04	0.002	0.03	<0.1	4.1	0.03	0.11	54	<0.1	0.03	2.3	0.55	<0.1	0.15
AA068840	Soil	18.3	19.4	0.68	30.1	0.002	1	1.54	0.004	0.04	0.1	4.8	0.03	0.05	69	0.3	0.07	3.6	0.61	<0.1	0.13



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**Project:** None Given  
**Report Date:** September 08, 2016

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**Part:** 3 of 3

# CERTIFICATE OF ANALYSIS

WHI16000179.1

Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA068811	Soil	0.09	2.6	0.6	<0.05	4.5	2.70	22.3	<0.02	2	0.4	46.8	<10	<2
AA068812	Soil	0.03	2.8	0.7	<0.05	5.8	5.24	41.8	0.03	<1	0.7	89.3	<10	<2
AA068813	Soil	0.12	3.0	2.1	<0.05	1.6	1.69	19.8	<0.02	<1	0.2	31.6	<10	<2
AA068814	Soil	0.13	3.4	0.9	<0.05	2.9	3.24	18.5	<0.02	<1	0.5	55.2	<10	<2
AA068815	Soil	0.05	3.2	0.8	<0.05	4.7	3.44	39.9	0.03	<1	0.4	92.4	<10	<2
AA068816	Soil	0.09	2.5	0.7	<0.05	5.1	3.12	32.2	<0.02	<1	0.4	69.5	<10	2
AA068817	Soil	0.03	2.5	0.7	<0.05	4.7	6.15	43.9	0.03	<1	0.5	99.3	<10	<2
AA068818	Soil	0.16	4.4	0.5	<0.05	4.3	4.68	37.6	0.03	<1	0.3	87.3	<10	<2
AA068819	Soil	0.13	3.3	1.6	<0.05	1.6	1.41	10.8	0.02	<1	0.2	41.8	<10	<2
AA068820	Soil	0.08	4.6	0.5	<0.05	5.8	6.09	23.5	0.02	<1	0.6	65.3	<10	<2
AA068821	Soil	0.07	4.2	0.6	<0.05	3.7	6.30	48.8	0.04	<1	0.3	93.4	<10	<2
AA068822	Soil	0.04	3.5	0.3	<0.05	3.6	10.18	45.3	0.03	<1	0.6	98.8	<10	<2
AA068823	Soil	0.05	4.3	0.4	<0.05	5.4	8.31	51.6	0.07	<1	1.5	111.1	<10	<2
AA068824	Soil	0.09	4.1	0.2	<0.05	4.9	3.98	31.5	0.03	<1	0.4	64.9	<10	<2
AA068825	Soil	0.14	3.5	0.4	<0.05	4.5	2.25	17.0	<0.02	<1	0.7	43.7	<10	<2
AA068826	Soil	<0.02	2.3	0.6	<0.05	5.1	2.08	33.2	0.02	<1	0.3	88.6	<10	<2
AA068827	Soil	0.08	2.9	1.7	<0.05	5.3	22.08	53.8	0.05	<1	0.6	3.7	<10	<2
AA068828	Soil	0.19	1.2	<0.1	<0.05	1.2	2.71	9.8	<0.02	<1	0.1	1.5	<10	<2
AA068829	Soil	0.24	4.4	1.4	<0.05	1.6	6.74	21.2	<0.02	<1	0.3	10.1	<10	<2
AA068830	Soil	0.11	3.2	0.9	<0.05	5.9	15.52	47.0	0.04	<1	0.5	12.4	<10	<2
AA068831	Soil	0.04	2.7	1.1	<0.05	1.5	5.59	26.3	0.03	<1	0.4	10.0	<10	<2
AA068832	Soil	0.03	2.1	0.7	<0.05	7.1	8.15	36.9	0.03	<1	0.5	34.9	<10	<2
AA068833	Soil	0.04	1.8	0.5	<0.05	12.4	7.63	33.2	<0.02	<1	0.5	48.4	<10	<2
AA068834	Soil	0.04	3.3	0.5	<0.05	8.2	8.76	35.9	0.02	<1	0.8	25.0	<10	<2
AA068835	Soil	<0.02	2.1	0.9	<0.05	12.4	12.42	34.7	0.03	<1	0.7	73.1	<10	<2
AA068836	Soil	0.03	2.0	0.7	<0.05	12.1	12.55	32.9	0.03	<1	0.9	75.4	<10	<2
AA068837	Soil	0.03	2.2	1.2	<0.05	12.6	15.88	40.2	0.04	<1	0.8	34.3	<10	<2
AA068838	Soil	<0.02	2.3	1.1	<0.05	9.6	9.32	25.0	0.03	<1	0.5	23.5	<10	<2
AA068839	Soil	<0.02	1.6	1.3	<0.05	13.5	14.78	36.2	0.04	<1	0.4	34.5	<10	<2
AA068840	Soil	0.05	2.3	1.3	<0.05	11.9	17.17	33.9	0.03	<1	0.6	48.6	<10	<2



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000179.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	%
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
AA068841	Soil	0.50	56.51	48.68	100.7	185	45.8	33.0	649	4.38	41.4	2.7	10.6	20.8	26.1	0.11	1.08	0.51	10	0.26	0.075
AA068842	Soil	0.39	39.25	42.87	63.5	181	41.2	31.5	863	3.56	47.3	2.0	21.3	28.3	38.1	0.09	1.09	0.39	7	0.34	0.048
AA068843	Soil	0.41	40.76	47.53	84.5	174	38.1	23.3	714	3.55	21.4	1.9	4.6	20.3	28.3	0.11	0.91	0.34	9	0.35	0.053
AA068844	Soil	0.74	44.62	30.00	100.5	84	45.8	20.3	384	4.23	11.3	1.9	3.4	14.6	25.1	0.11	0.74	0.47	13	0.35	0.070
AA068845	Soil	0.98	62.23	61.78	116.6	278	45.5	22.9	788	5.25	17.2	4.8	2.0	15.1	23.6	0.23	0.84	0.66	13	0.40	0.122
AA068846	Soil	0.96	53.72	34.99	101.2	116	48.3	23.9	406	4.61	8.4	1.8	1.1	13.0	21.4	0.09	0.34	0.51	15	0.37	0.063
AA068847	Soil	0.99	91.78	65.26	107.1	139	59.9	61.5	1353	4.76	16.5	3.5	2.6	18.6	21.5	0.17	0.61	0.66	18	0.16	0.075
AA068848	Soil	0.99	86.60	64.43	116.4	169	55.8	47.9	1318	5.05	13.5	4.1	1.5	17.8	19.9	0.18	0.55	0.62	20	0.11	0.062
AA068849	Soil	0.78	143.30	82.09	125.2	157	60.1	81.9	2349	5.05	22.8	4.5	3.8	20.2	20.6	0.25	2.02	0.60	19	0.10	0.049
AA068850	Soil	1.15	122.01	91.95	119.0	161	73.5	139.7	2421	4.82	28.5	5.7	1.3	14.7	27.7	0.17	1.05	0.82	18	0.14	0.073
AA068851	Soil	0.44	44.20	29.63	75.8	99	39.2	21.7	756	3.68	45.7	0.8	9.4	12.2	18.3	0.03	0.40	0.49	13	0.11	0.039
AA068852	Soil	1.16	57.65	41.35	83.7	186	40.3	21.5	642	3.68	81.2	1.4	19.9	10.6	20.0	0.16	0.73	0.49	14	0.16	0.041
AA068853	Soil	1.29	65.67	57.44	97.4	101	45.1	25.4	696	4.46	50.5	0.9	11.7	10.8	16.0	0.07	0.42	0.64	15	0.15	0.042
AA068854	Soil	1.85	54.51	41.66	91.8	249	47.0	27.3	690	3.95	136.5	1.4	34.5	10.8	18.9	0.26	0.92	0.54	15	0.26	0.051
AA068855	Soil	2.13	55.32	38.14	100.0	338	46.8	25.3	727	4.03	79.6	1.5	18.5	11.0	16.6	0.48	0.86	0.49	15	0.23	0.053
AA068856	Soil	4.23	49.26	35.73	93.7	148	48.4	21.6	826	4.29	60.1	1.6	10.9	9.8	15.2	0.20	0.95	0.47	17	0.18	0.053
AA068857	Soil	2.59	50.25	36.96	93.4	191	45.9	22.1	659	4.11	115.4	1.5	32.1	10.3	17.0	0.16	0.91	0.49	16	0.22	0.046
AA068858	Soil	0.84	34.05	23.82	104.2	74	46.6	13.7	660	4.56	48.3	1.5	9.5	6.3	6.7	0.11	0.43	0.35	19	0.06	0.053
AA068859	Soil	1.23	38.09	21.67	100.9	76	45.2	14.3	625	4.56	71.7	1.8	11.5	8.5	9.0	0.04	0.62	0.36	18	0.11	0.041
AA068860	Soil	1.15	41.38	23.48	95.6	94	44.4	13.3	575	4.40	72.9	2.3	16.4	7.8	8.9	0.04	0.70	0.41	17	0.09	0.038
AA068861	Soil	0.72	38.28	23.97	98.7	72	44.4	16.5	724	4.68	55.4	2.2	13.5	6.7	6.7	0.05	0.53	0.38	19	0.05	0.043
AA068862	Soil	0.69	40.52	30.43	91.1	124	44.0	14.0	726	4.40	54.5	2.4	11.9	4.7	6.3	0.04	0.51	0.44	18	0.05	0.073
AA068863	Soil	0.57	35.42	29.07	92.5	79	39.6	17.1	791	4.52	68.4	1.5	8.5	5.3	6.7	0.06	0.59	0.46	18	0.05	0.043
AA068864	Soil	0.70	46.54	31.27	98.6	41	48.4	26.0	1439	4.65	49.3	1.4	5.0	5.6	5.6	0.06	0.94	0.54	19	0.07	0.059
AA068865	Soil	0.53	42.15	26.05	99.2	43	48.5	20.9	1360	4.62	29.0	1.3	2.9	6.4	5.0	0.05	0.49	0.44	20	0.06	0.061
AA068866	Soil	0.40	13.53	14.00	27.5	204	9.8	4.5	489	1.84	62.0	0.5	5.4	0.6	3.5	0.04	0.24	0.19	14	0.01	0.050
AA068867	Soil	0.53	53.59	40.98	76.3	74	40.2	20.7	2048	4.57	19.4	0.9	3.1	3.4	4.4	0.06	0.24	0.41	21	0.06	0.101
AA068868	Soil	0.29	39.08	39.48	85.4	57	48.7	22.9	1885	5.08	4.0	0.8	4.9	3.6	2.3	0.03	0.12	0.47	22	0.03	0.099
AA068869	Soil	1.01	38.91	47.87	75.4	94	36.6	21.1	3197	4.54	9.9	0.4	0.5	4.5	4.0	0.08	0.18	0.47	21	0.06	0.145
AA068870	Soil	0.65	32.96	32.07	70.8	160	32.7	18.2	1440	4.57	32.1	1.0	2.8	4.6	2.9	0.08	0.68	0.58	20	0.01	0.076



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000179.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA068841	Soil	10.4	17.5	0.59	25.7	0.001	<1	1.43	0.004	0.03	<0.1	3.2	0.03	0.04	21	<0.1	0.06	3.1	0.61	<0.1	0.15
AA068842	Soil	8.7	10.9	0.59	40.7	<0.001	<1	1.44	0.004	0.04	<0.1	2.7	0.04	0.04	29	0.2	0.02	2.2	1.06	<0.1	0.14
AA068843	Soil	12.4	15.5	0.58	37.0	0.001	<1	1.55	0.004	0.04	<0.1	2.7	0.03	<0.02	23	<0.1	0.03	2.9	0.73	<0.1	0.13
AA068844	Soil	16.1	25.2	0.83	20.9	0.002	3	1.74	0.003	0.04	<0.1	2.6	0.03	0.02	17	<0.1	0.03	4.7	0.47	<0.1	0.14
AA068845	Soil	33.4	15.0	0.41	22.7	0.003	3	1.05	0.004	0.04	<0.1	7.8	0.04	0.04	62	<0.1	0.06	2.5	0.65	<0.1	0.14
AA068846	Soil	9.9	29.9	0.94	18.9	<0.001	2	1.95	0.003	0.04	<0.1	2.8	0.03	0.08	27	<0.1	0.04	4.9	0.54	<0.1	0.14
AA068847	Soil	19.1	28.8	0.92	32.8	0.002	1	2.10	0.006	0.03	<0.1	2.8	0.06	<0.02	17	<0.1	<0.02	6.0	1.05	<0.1	0.10
AA068848	Soil	21.7	31.3	0.97	27.6	0.002	2	2.28	0.008	0.05	<0.1	3.3	0.05	0.04	24	<0.1	<0.02	5.7	1.05	<0.1	0.12
AA068849	Soil	23.7	33.6	1.07	35.1	0.001	2	2.54	0.005	0.04	<0.1	2.8	0.06	0.02	21	<0.1	0.10	6.0	1.55	<0.1	0.08
AA068850	Soil	15.5	31.5	0.97	39.5	0.002	2	2.18	0.007	0.03	<0.1	2.2	0.09	0.03	16	<0.1	0.08	5.8	1.04	<0.1	0.07
AA068851	Soil	25.8	21.9	1.05	19.6	0.001	1	1.87	0.002	0.05	<0.1	1.7	0.03	<0.02	17	<0.1	0.03	4.6	0.96	<0.1	0.14
AA068852	Soil	20.8	21.7	0.98	21.9	<0.001	2	1.76	0.002	0.05	<0.1	2.2	0.05	<0.02	13	<0.1	0.09	4.2	1.13	<0.1	0.17
AA068853	Soil	23.8	29.7	1.13	17.0	<0.001	1	2.26	0.002	0.05	<0.1	2.0	0.04	<0.02	6	<0.1	0.09	5.6	0.84	<0.1	0.21
AA068854	Soil	17.8	25.5	1.03	18.9	<0.001	1	1.83	0.002	0.03	<0.1	2.4	0.04	<0.02	13	0.3	0.08	4.5	0.71	<0.1	0.17
AA068855	Soil	18.8	25.8	1.07	14.3	0.002	2	1.90	0.002	0.03	<0.1	2.4	0.05	<0.02	14	0.4	0.05	4.9	0.58	<0.1	0.18
AA068856	Soil	13.1	27.1	1.00	17.2	0.001	2	1.97	0.003	0.03	<0.1	2.8	0.05	<0.02	<5	<0.1	0.06	5.3	0.66	<0.1	0.16
AA068857	Soil	19.4	27.2	1.04	19.0	<0.001	1	1.98	0.003	0.04	<0.1	2.7	0.04	<0.02	8	0.2	0.10	5.1	0.81	<0.1	0.12
AA068858	Soil	8.6	34.3	1.09	18.0	<0.001	<1	2.54	0.004	0.03	<0.1	2.1	0.03	0.02	23	<0.1	0.03	6.6	1.30	<0.1	0.13
AA068859	Soil	12.2	33.6	1.10	16.3	<0.001	1	2.44	0.003	0.03	<0.1	2.5	<0.02	<0.02	<5	<0.1	0.03	6.9	0.76	<0.1	0.10
AA068860	Soil	12.2	32.9	1.06	21.7	<0.001	3	2.39	0.003	0.03	<0.1	2.4	0.03	<0.02	13	<0.1	<0.02	6.4	1.22	<0.1	0.13
AA068861	Soil	13.9	34.0	1.09	22.3	0.001	2	2.55	0.005	0.04	<0.1	2.3	0.03	<0.02	16	<0.1	0.02	7.0	1.46	<0.1	0.10
AA068862	Soil	10.3	32.8	1.03	22.8	0.001	2	2.36	0.005	0.03	<0.1	2.1	0.03	0.04	30	<0.1	0.03	6.5	1.67	<0.1	0.16
AA068863	Soil	13.2	31.9	1.06	21.7	<0.001	<1	2.38	0.004	0.04	<0.1	1.9	0.03	0.02	17	<0.1	0.05	6.4	1.63	<0.1	0.12
AA068864	Soil	17.6	31.6	1.21	15.0	0.003	1	2.38	0.002	0.03	<0.1	2.1	<0.02	<0.02	10	<0.1	0.05	6.3	0.77	<0.1	0.13
AA068865	Soil	20.8	33.8	1.18	17.5	0.003	2	2.47	0.003	0.03	<0.1	2.0	0.02	<0.02	8	<0.1	0.05	6.3	0.86	<0.1	0.16
AA068866	Soil	8.2	9.7	0.20	26.8	0.006	2	0.71	0.013	0.02	<0.1	0.5	0.03	0.02	31	<0.1	0.04	3.7	0.59	<0.1	<0.02
AA068867	Soil	10.0	32.7	1.00	40.7	0.004	<1	2.22	0.003	0.03	<0.1	2.1	0.03	0.07	88	<0.1	0.04	6.2	0.80	<0.1	0.16
AA068868	Soil	11.8	32.6	1.17	16.2	0.002	<1	2.54	0.002	0.02	<0.1	1.9	<0.02	0.03	25	<0.1	0.10	6.8	0.92	<0.1	0.20
AA068869	Soil	16.4	31.8	0.90	25.2	0.003	1	1.98	0.003	0.04	<0.1	2.0	0.03	0.03	49	<0.1	0.04	6.8	1.11	<0.1	0.08
AA068870	Soil	14.6	26.4	0.77	23.1	0.003	2	1.84	0.003	0.03	<0.1	1.8	0.05	0.04	42	<0.1	0.09	6.5	1.32	<0.1	0.06



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Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA068841	Soil	<0.02	1.5	1.3	<0.05	11.2	11.77	22.2	0.03	<1	0.6	40.6	<10	<2
AA068842	Soil	<0.02	2.3	1.0	<0.05	8.5	11.60	20.0	0.02	<1	0.4	22.6	<10	<2
AA068843	Soil	0.02	2.4	1.8	<0.05	8.1	11.48	27.1	0.03	<1	0.5	28.1	<10	<2
AA068844	Soil	0.05	1.9	1.6	<0.05	11.3	8.23	29.6	0.04	<1	0.6	57.3	<10	2
AA068845	Soil	0.05	2.3	2.0	<0.05	8.9	26.56	58.9	0.05	<1	0.7	34.4	<10	<2
AA068846	Soil	<0.02	1.7	1.6	<0.05	9.9	7.90	18.6	<0.02	<1	<0.1	71.5	<10	3
AA068847	Soil	0.02	2.4	1.0	<0.05	8.0	8.84	34.2	<0.02	<1	0.6	80.2	<10	<2
AA068848	Soil	0.03	2.7	0.6	<0.05	8.1	8.16	40.2	<0.02	<1	0.4	83.5	<10	3
AA068849	Soil	<0.02	2.8	0.9	<0.05	8.4	8.50	42.6	0.02	<1	0.8	91.6	<10	<2
AA068850	Soil	<0.02	1.7	1.3	<0.05	6.4	8.57	29.3	0.02	1	1.0	103.5	<10	<2
AA068851	Soil	<0.02	2.6	0.8	<0.05	9.8	3.96	43.7	<0.02	<1	0.3	66.8	<10	<2
AA068852	Soil	<0.02	2.5	1.1	<0.05	11.2	4.79	36.5	0.02	<1	0.5	57.5	<10	3
AA068853	Soil	<0.02	1.7	1.0	<0.05	11.9	3.76	42.7	0.02	<1	0.3	82.5	<10	<2
AA068854	Soil	0.03	1.5	1.0	<0.05	11.4	5.11	33.8	<0.02	<1	0.2	64.1	<10	<2
AA068855	Soil	0.05	1.4	1.0	<0.05	10.9	4.85	35.6	<0.02	<1	0.6	70.9	<10	<2
AA068856	Soil	<0.02	1.5	1.2	<0.05	9.6	5.43	26.0	<0.02	2	0.4	67.1	<10	<2
AA068857	Soil	<0.02	1.9	2.2	<0.05	7.0	4.90	36.5	0.02	2	0.6	68.9	<10	3
AA068858	Soil	0.04	3.2	1.7	<0.05	4.0	2.12	17.0	<0.02	<1	0.2	84.6	<10	<2
AA068859	Soil	<0.02	1.8	1.0	<0.05	3.7	3.28	23.3	<0.02	<1	<0.1	84.0	<10	<2
AA068860	Soil	0.03	2.7	1.3	<0.05	4.8	3.64	24.1	0.02	<1	0.4	82.0	<10	3
AA068861	Soil	0.03	2.8	0.1	<0.05	4.0	2.68	27.2	<0.02	<1	0.2	84.6	<10	<2
AA068862	Soil	0.04	3.0	1.8	<0.05	5.4	2.48	20.3	<0.02	<1	0.3	77.7	<10	<2
AA068863	Soil	0.04	3.6	0.7	<0.05	4.0	2.16	25.2	<0.02	<1	0.4	77.0	<10	<2
AA068864	Soil	0.05	2.1	0.5	<0.05	4.2	2.92	32.4	<0.02	<1	0.1	86.4	<10	<2
AA068865	Soil	0.06	2.3	0.4	<0.05	4.7	3.07	37.8	<0.02	<1	0.2	88.5	<10	<2
AA068866	Soil	0.09	2.0	0.2	<0.05	0.8	0.71	14.8	<0.02	<1	<0.1	15.7	<10	<2
AA068867	Soil	0.13	4.1	0.4	<0.05	4.9	2.22	19.5	0.03	<1	0.1	65.0	<10	<2
AA068868	Soil	0.05	2.3	0.6	<0.05	6.3	2.27	21.9	<0.02	<1	0.2	77.9	<10	<2
AA068869	Soil	0.12	3.3	3.7	<0.05	3.2	1.98	31.5	<0.02	<1	0.2	65.9	<10	<2
AA068870	Soil	0.14	4.2	0.9	<0.05	3.2	2.53	28.4	0.03	<1	0.2	54.9	<10	<2



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**Project:** None Given  
**Report Date:** September 08, 2016

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**Part:** 1 of 3

# CERTIFICATE OF ANALYSIS

# WHI16000179.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
AA068871	Soil	0.55	63.80	68.93	99.6	71	33.7	27.9	857	3.67	55.1	1.3	4.0	8.5	8.1	0.07	0.48	0.55	17	0.04	0.090
AA068872	Soil	0.75	80.06	60.73	87.2	51	37.3	41.2	1236	3.94	48.7	1.4	4.1	10.9	7.8	0.05	0.49	0.70	19	0.05	0.073
AA068873	Soil	0.73	34.94	31.44	52.6	48	18.6	11.7	477	2.65	71.2	1.0	5.5	1.7	6.5	0.05	0.52	0.38	19	0.05	0.107
AA068874	Soil	0.82	54.22	83.80	90.7	59	32.8	26.2	1398	4.23	71.0	1.0	2.6	10.2	6.3	0.07	0.32	0.70	19	0.03	0.089
AA068875	Soil	0.52	28.94	23.80	74.0	76	28.1	11.5	677	3.59	115.3	1.2	10.9	6.9	4.0	0.06	0.53	0.44	13	0.01	0.074
AA068876	Soil	1.91	28.79	39.00	70.4	63	26.0	12.4	513	3.52	60.6	1.1	5.6	7.5	4.9	0.05	0.48	0.47	14	0.03	0.066
AA068877	Soil	0.84	41.79	52.33	101.6	75	32.4	27.6	827	3.92	10.5	1.5	1.9	10.5	12.3	0.16	0.55	0.54	14	0.09	0.072
AA068878	Soil	0.43	50.56	46.64	98.9	145	34.9	25.7	886	3.74	11.9	2.1	3.3	13.7	10.7	0.09	0.68	0.48	13	0.09	0.051
AA068879	Soil	0.28	11.67	13.33	32.6	83	11.5	4.6	223	1.46	5.0	1.2	1.3	0.9	181.7	0.16	0.46	0.12	5	3.97	0.068
AA068880	Soil	0.36	41.77	29.40	90.0	87	34.9	14.9	345	3.58	10.6	1.5	3.1	9.8	33.9	0.07	0.54	0.46	12	0.55	0.053
AA068881	Soil	0.44	21.22	31.81	83.0	93	25.6	8.6	462	3.24	27.6	2.3	1.4	9.6	15.1	0.13	0.55	0.30	11	0.15	0.056
AA068882	Soil	0.61	26.91	31.70	65.4	21	26.4	8.8	247	3.87	14.8	1.0	<0.2	11.6	7.0	0.05	0.50	0.38	15	0.01	0.064
AA068883	Soil	0.66	25.99	31.13	66.0	52	25.9	8.1	251	3.98	16.2	1.0	0.2	11.2	7.8	0.04	0.46	0.42	16	0.02	0.068
AA068884	Soil	0.51	20.50	26.00	61.1	38	21.0	12.8	502	2.91	20.6	0.7	1.4	5.2	3.1	0.04	0.39	0.43	15	0.01	0.068
AA068885	Soil	0.44	45.61	66.20	92.7	99	29.2	28.7	958	3.67	8.9	1.3	1.7	17.8	4.2	0.04	0.38	0.59	14	0.02	0.060
AA068886	Soil	0.49	30.33	49.26	102.2	23	33.6	19.8	1203	3.80	35.9	0.8	1.5	13.7	4.3	0.09	0.41	0.37	18	0.02	0.050
AA068887	Soil	0.46	20.89	32.06	63.3	25	21.2	10.9	446	3.03	33.8	0.7	1.4	7.5	3.2	0.05	0.43	0.36	15	0.01	0.049
AA068888	Soil	0.79	61.00	59.01	105.3	98	34.9	26.2	964	4.87	25.1	1.5	2.0	18.4	4.1	0.06	0.65	0.68	18	0.01	0.074
AA068889	Soil	0.48	7.86	10.18	31.2	26	10.5	4.1	129	2.40	12.5	0.5	0.7	0.4	4.1	0.05	0.25	0.33	17	0.02	0.045
AA068890	Soil	0.51	11.30	23.31	37.0	47	9.9	6.8	441	2.22	10.5	0.7	1.3	0.4	4.0	0.10	0.29	0.33	13	0.03	0.076
AA068891	Soil	0.27	19.69	17.15	57.7	85	19.0	8.6	299	2.52	21.5	1.0	2.0	4.6	15.6	0.05	0.23	0.29	11	0.14	0.059
AA068892	Soil	0.33	31.35	30.35	79.7	89	29.7	13.2	329	3.60	52.5	2.7	5.1	9.6	9.3	0.05	0.42	0.42	12	0.08	0.057
AA068893	Soil	0.46	24.86	19.43	66.5	98	27.5	9.6	264	3.01	49.0	2.6	6.5	6.4	26.6	0.05	0.32	0.36	12	0.32	0.043
AA068894	Soil	0.37	43.35	33.10	87.5	110	39.1	17.1	456	3.76	113.6	0.9	13.7	10.7	41.5	0.09	0.55	0.43	14	0.48	0.047
AA068895	Soil	0.35	42.31	29.38	83.2	125	39.3	17.9	486	3.62	115.0	0.5	15.6	10.8	57.6	0.06	0.55	0.38	13	0.96	0.052
AA068896	Soil	0.23	17.49	11.31	47.0	80	19.7	6.6	186	2.35	37.2	0.7	4.0	4.0	6.6	0.02	0.21	0.22	10	0.05	0.041
AA068897	Soil	0.47	41.66	39.58	76.5	160	37.3	17.8	617	4.14	147.8	1.0	109.4	9.1	12.9	0.09	0.67	0.77	13	0.13	0.069
AA068898	Soil	0.71	44.05	35.11	70.7	61	26.0	18.3	654	2.95	14.3	1.8	4.0	6.7	7.7	0.04	0.49	0.40	14	0.07	0.098
AA068899	Soil	0.46	49.13	40.68	64.5	59	23.6	17.4	407	2.69	9.4	1.0	1.4	6.8	8.1	0.05	0.36	0.46	13	0.07	0.058
AA068900	Soil	0.75	73.77	27.78	91.9	77	39.3	7.8	322	4.90	15.5	2.8	1.5	19.1	23.3	0.02	0.38	0.63	16	0.16	0.038



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000179.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA068871	Soil	17.5	19.8	0.69	36.8	0.002	<1	1.92	0.002	0.05	<0.1	1.4	0.07	0.04	28	<0.1	0.08	4.5	0.99	<0.1	0.14
AA068872	Soil	21.2	22.8	0.84	27.0	0.004	2	1.99	0.003	0.05	<0.1	1.7	0.05	0.02	14	<0.1	0.20	4.9	1.37	<0.1	0.10
AA068873	Soil	12.0	15.8	0.35	27.4	0.008	1	1.29	0.009	0.05	<0.1	0.9	0.07	0.04	29	0.1	0.04	3.9	1.19	<0.1	0.03
AA068874	Soil	16.7	23.8	0.89	38.5	0.003	<1	2.24	0.007	0.05	<0.1	1.9	0.07	0.03	11	0.3	0.08	6.1	2.23	<0.1	0.13
AA068875	Soil	16.4	14.2	0.41	23.4	0.002	2	1.22	0.003	0.05	<0.1	1.7	0.05	0.03	20	<0.1	0.04	3.4	0.85	<0.1	0.07
AA068876	Soil	15.8	17.9	0.47	25.0	0.002	1	1.48	0.002	0.04	<0.1	1.3	0.04	0.04	24	<0.1	0.06	4.0	0.71	<0.1	0.07
AA068877	Soil	5.8	23.0	0.73	27.2	0.002	<1	1.81	0.003	0.04	<0.1	1.2	0.03	0.05	35	<0.1	0.05	4.9	0.41	<0.1	0.09
AA068878	Soil	8.9	22.2	0.65	29.5	0.002	1	1.79	0.005	0.04	<0.1	1.7	0.03	<0.02	13	<0.1	0.02	4.5	0.57	<0.1	0.06
AA068879	Soil	11.6	2.9	0.07	32.6	0.006	2	0.62	0.027	0.02	<0.1	1.4	<0.02	0.05	33	<0.1	0.05	1.1	0.11	<0.1	0.04
AA068880	Soil	12.5	19.4	0.64	35.7	0.001	2	1.71	0.004	0.04	<0.1	2.4	0.02	0.04	31	<0.1	0.06	3.9	0.31	<0.1	0.20
AA068881	Soil	12.8	19.3	0.43	49.3	0.004	<1	1.40	0.006	0.03	<0.1	2.3	0.04	<0.02	<5	0.1	0.05	3.2	0.40	<0.1	0.05
AA068882	Soil	9.9	25.2	0.59	25.1	0.002	2	1.81	0.005	0.04	<0.1	1.0	0.04	0.03	7	0.1	0.05	4.8	0.65	<0.1	0.07
AA068883	Soil	10.2	26.9	0.59	23.9	0.003	<1	1.82	0.006	0.04	<0.1	1.1	0.06	0.03	13	0.3	0.04	5.0	0.68	<0.1	0.08
AA068884	Soil	11.7	17.6	0.37	23.6	0.005	1	1.33	0.007	0.04	<0.1	0.7	0.06	0.02	17	0.2	0.03	4.6	0.68	<0.1	0.05
AA068885	Soil	9.0	21.9	0.64	20.6	0.002	<1	2.01	0.005	0.03	<0.1	1.2	0.06	0.03	19	<0.1	0.04	5.3	0.80	<0.1	0.08
AA068886	Soil	16.2	26.6	0.80	47.8	0.003	3	2.28	0.002	0.05	<0.1	2.0	0.07	<0.02	9	0.2	0.02	5.5	0.97	<0.1	0.10
AA068887	Soil	10.7	18.6	0.46	34.5	0.003	2	1.68	0.007	0.04	<0.1	1.0	0.06	0.03	18	0.2	0.04	4.8	0.82	<0.1	0.06
AA068888	Soil	12.3	30.4	0.87	23.6	0.002	2	2.34	0.003	0.04	<0.1	1.6	0.06	0.02	<5	<0.1	0.05	6.1	1.00	<0.1	0.06
AA068889	Soil	9.7	13.3	0.21	28.4	0.005	<1	0.94	0.007	0.03	<0.1	0.3	0.06	0.03	17	<0.1	0.02	4.5	0.70	<0.1	<0.02
AA068890	Soil	5.4	12.2	0.19	30.9	0.004	<1	0.94	0.008	0.03	<0.1	0.4	0.05	0.06	32	0.3	0.05	4.3	0.48	<0.1	<0.02
AA068891	Soil	9.0	14.4	0.40	51.3	0.003	<1	1.36	0.010	0.04	<0.1	1.1	0.04	0.04	14	0.2	0.04	3.7	0.41	<0.1	0.08
AA068892	Soil	15.3	19.3	0.64	37.4	0.001	<1	1.66	0.003	0.06	<0.1	2.1	0.03	0.03	26	0.3	0.06	4.3	0.36	<0.1	0.11
AA068893	Soil	13.3	18.7	0.64	46.9	0.002	<1	1.65	0.007	0.06	<0.1	1.7	0.03	0.03	14	0.3	0.03	3.9	0.42	<0.1	0.12
AA068894	Soil	20.0	23.1	0.86	44.3	0.001	1	1.96	0.003	0.10	<0.1	2.2	0.03	0.03	6	0.2	0.07	4.7	0.43	<0.1	0.12
AA068895	Soil	19.6	22.1	0.87	31.7	0.001	2	1.80	0.003	0.08	<0.1	2.2	0.03	0.03	5	0.3	<0.02	4.6	0.39	<0.1	0.13
AA068896	Soil	13.1	14.6	0.45	60.0	0.003	<1	1.52	0.009	0.05	<0.1	0.9	0.03	0.02	<5	<0.1	<0.02	3.7	0.42	<0.1	0.07
AA068897	Soil	22.4	21.3	0.74	33.7	0.002	1	1.86	0.003	0.05	<0.1	2.0	0.03	<0.02	17	<0.1	0.12	4.1	0.43	<0.1	0.09
AA068898	Soil	10.2	19.6	0.58	22.7	0.005	2	1.68	0.009	0.04	<0.1	1.4	0.05	0.03	29	0.4	0.03	4.3	0.88	<0.1	0.08
AA068899	Soil	10.0	17.9	0.46	27.0	0.005	2	1.68	0.012	0.03	<0.1	1.0	0.04	0.03	25	<0.1	0.07	4.3	0.75	<0.1	0.12
AA068900	Soil	10.4	31.5	1.05	18.0	<0.001	2	2.47	0.002	0.04	<0.1	1.4	0.03	<0.02	5	0.2	0.06	6.3	1.16	<0.1	0.10



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000179.1

Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA068871	Soil	0.13	6.1	0.3	<0.05	5.3	3.34	33.0	<0.02	<1	0.4	40.4	<10	<2
AA068872	Soil	0.17	5.3	0.6	<0.05	4.1	3.78	39.9	0.02	<1	0.4	53.1	<10	<2
AA068873	Soil	0.23	7.4	0.2	<0.05	1.0	2.42	23.1	<0.02	<1	0.3	23.6	<10	<2
AA068874	Soil	0.16	7.4	0.4	<0.05	4.4	2.65	31.3	0.03	<1	0.7	60.5	<10	<2
AA068875	Soil	0.10	5.7	0.4	<0.05	2.5	2.05	31.7	<0.02	<1	<0.1	27.3	<10	2
AA068876	Soil	0.09	4.7	0.5	<0.05	2.6	1.95	30.1	<0.02	<1	0.6	37.8	<10	<2
AA068877	Soil	0.04	3.0	0.7	<0.05	3.0	2.13	11.1	<0.02	<1	0.6	56.5	<10	2
AA068878	Soil	0.04	3.1	0.9	<0.05	2.7	5.00	17.2	0.02	<1	0.3	55.0	<10	<2
AA068879	Soil	0.19	1.4	0.7	<0.05	2.6	6.62	21.4	0.02	<1	0.2	2.1	<10	<2
AA068880	Soil	0.06	2.2	0.7	<0.05	5.8	6.18	22.2	0.04	<1	0.8	50.5	<10	<2
AA068881	Soil	0.09	3.5	0.5	<0.05	1.6	7.44	25.2	<0.02	<1	0.3	40.7	<10	<2
AA068882	Soil	0.14	4.2	0.8	<0.05	2.2	1.19	18.4	0.02	1	0.1	49.4	<10	<2
AA068883	Soil	0.15	4.4	0.3	<0.05	2.3	1.20	19.4	0.03	<1	0.4	46.9	<10	<2
AA068884	Soil	0.19	5.3	0.5	<0.05	1.6	1.20	21.8	<0.02	<1	0.3	33.4	<10	<2
AA068885	Soil	0.11	3.9	0.6	<0.05	2.8	1.50	17.3	<0.02	1	0.2	54.4	<10	3
AA068886	Soil	0.24	4.7	0.8	<0.05	3.4	2.48	32.8	<0.02	<1	0.6	53.8	<10	2
AA068887	Soil	0.21	4.9	1.2	<0.05	2.4	1.60	20.0	<0.02	<1	0.1	38.4	<10	<2
AA068888	Soil	0.06	4.4	0.6	<0.05	2.3	2.01	22.9	0.02	<1	0.6	71.8	<10	<2
AA068889	Soil	0.20	3.4	1.7	<0.05	0.2	0.95	17.2	<0.02	<1	0.3	16.0	<10	<2
AA068890	Soil	0.18	3.3	1.8	<0.05	0.4	0.81	10.0	<0.02	<1	<0.1	16.1	<10	<2
AA068891	Soil	0.19	3.7	0.7	<0.05	1.9	2.08	16.5	<0.02	<1	0.6	34.7	<10	<2
AA068892	Soil	0.09	3.6	0.8	<0.05	3.8	5.18	29.3	0.03	<1	0.5	46.2	<10	3
AA068893	Soil	0.13	4.3	2.2	<0.05	3.4	3.53	24.3	<0.02	<1	0.3	44.4	<10	<2
AA068894	Soil	0.04	3.9	2.6	<0.05	5.3	4.92	36.0	<0.02	<1	0.3	54.4	<10	<2
AA068895	Soil	<0.02	2.9	1.5	<0.05	4.9	4.46	35.4	<0.02	<1	0.3	55.6	<10	<2
AA068896	Soil	0.15	3.8	0.9	<0.05	2.4	1.87	23.8	<0.02	<1	0.5	35.4	<10	<2
AA068897	Soil	0.07	3.1	0.9	<0.05	2.8	5.64	46.0	0.03	<1	0.8	53.2	<10	<2
AA068898	Soil	0.13	4.5	1.3	<0.05	2.1	3.97	19.8	0.02	<1	0.5	46.7	<10	<2
AA068899	Soil	0.22	2.9	1.0	<0.05	3.8	2.35	19.5	<0.02	<1	0.5	48.2	<10	<2
AA068900	Soil	<0.02	1.9	1.1	<0.05	4.9	2.06	18.9	0.03	1	0.4	87.2	<10	<2



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000179.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
AA068901	Soil	0.45	62.80	57.22	97.0	84	36.7	22.2	885	4.16	19.3	1.5	1.3	14.8	12.7	0.08	0.68	0.79	14	0.12	0.034
AA068902	Soil	0.43	40.54	60.04	97.1	80	38.0	23.7	791	4.12	14.5	1.7	1.9	15.6	16.9	0.09	0.77	0.53	13	0.16	0.045
AA068903	Soil	0.53	45.31	54.60	97.1	103	38.2	21.4	658	4.09	14.6	2.2	2.2	15.1	16.0	0.09	0.81	0.57	13	0.16	0.048
AA068904	Soil	0.70	23.20	20.55	65.9	53	26.2	6.2	350	3.78	8.1	1.1	0.9	3.3	4.6	0.05	0.33	0.37	24	0.02	0.093
AA068905	Soil	0.69	32.10	30.72	74.2	20	30.9	15.4	573	4.01	13.7	1.2	1.5	5.3	6.2	0.05	0.56	0.44	23	0.02	0.061
AA068906	Soil	0.61	32.29	37.45	80.8	31	33.5	22.7	620	3.97	14.8	1.0	0.6	5.5	6.1	0.07	0.45	0.49	22	0.04	0.067
AA068907	Soil	0.76	36.04	50.40	88.7	33	38.2	27.1	723	4.08	16.5	1.0	1.4	5.3	6.0	0.08	0.64	0.54	23	0.03	0.050
AA068908	Soil	0.81	42.84	38.43	97.0	39	38.2	17.4	505	4.30	14.5	1.9	1.9	7.9	11.8	0.09	0.60	0.51	22	0.05	0.089
AA068909	Soil	1.04	29.46	31.29	70.3	35	22.6	10.5	416	4.03	12.5	1.2	1.3	1.6	5.3	0.08	0.59	0.52	24	0.02	0.083
AA068910	Soil	0.91	101.30	81.61	109.7	106	46.0	55.5	1999	4.67	17.2	3.4	1.5	15.0	14.8	0.11	0.65	0.59	24	0.06	0.080
AA068911	Soil	0.78	58.02	43.77	89.2	90	33.7	13.4	499	4.42	17.5	2.2	<0.2	8.8	17.5	0.07	0.72	0.57	21	0.01	0.085
AA068912	Soil	0.78	57.19	43.03	92.0	102	35.9	13.6	487	4.48	16.1	2.1	1.0	7.9	18.3	0.08	0.70	0.55	21	0.02	0.090
AA068913	Soil	0.67	122.21	96.00	120.7	63	84.1	147.9	2356	5.47	19.4	3.4	<0.2	19.7	15.1	0.11	0.74	0.70	20	0.02	0.068
AA068914	Soil	0.67	58.51	53.85	98.5	46	46.6	35.1	861	4.50	18.6	2.2	1.3	13.0	10.2	0.07	1.52	0.52	19	0.05	0.064
AA068915	Soil	0.51	63.91	65.21	100.5	113	71.9	68.4	1831	5.29	18.5	2.9	1.0	20.7	17.4	0.08	2.16	0.34	19	0.13	0.037
AA068916	Soil	0.99	63.16	40.09	109.9	84	51.7	29.0	449	4.78	9.1	3.0	0.7	14.9	43.1	0.09	0.30	0.52	16	0.49	0.046
AA068917	Soil	1.55	47.63	36.65	95.0	121	44.0	18.8	319	4.34	5.7	1.8	<0.2	14.3	47.9	0.16	0.25	0.38	11	1.91	0.041
AA068918	Soil	0.74	93.88	74.56	122.5	291	56.2	46.1	1295	5.79	19.4	4.3	3.7	16.8	21.6	0.17	1.01	0.99	15	0.29	0.085
AA068919	Soil	0.62	46.18	36.19	85.0	176	46.8	20.9	464	4.34	24.8	3.2	5.3	19.1	27.7	0.10	1.27	0.42	13	0.42	0.078
AA068920	Soil	0.36	60.41	39.84	111.9	126	49.4	30.1	495	4.90	11.2	2.0	1.7	21.4	31.7	0.04	0.60	0.41	16	0.33	0.049
AA068921	Soil	0.88	60.14	69.90	78.1	124	28.5	29.5	2251	3.85	14.1	1.4	2.3	4.0	5.1	0.12	0.39	0.48	17	0.04	0.077
AA068922	Soil	0.45	64.56	30.41	97.3	119	45.2	16.1	437	4.12	18.3	2.7	3.3	12.1	8.6	0.05	0.36	0.70	13	0.21	0.033
AA068923	Soil	0.72	50.81	32.67	101.3	152	43.4	15.2	492	4.58	23.5	1.9	6.2	8.2	6.6	0.09	1.22	0.59	13	0.25	0.053
AA068924	Soil	0.69	65.99	39.69	107.2	119	50.4	21.5	775	4.91	23.1	3.1	4.1	10.0	5.1	0.08	1.02	0.53	15	0.16	0.050
AA068925	Soil	0.53	63.37	40.43	109.0	174	46.6	20.1	831	4.37	22.5	2.6	3.8	7.1	7.4	0.13	0.98	0.54	13	0.27	0.061
AA068926	Soil	0.66	52.13	47.74	101.3	150	39.4	19.0	627	4.57	17.6	2.4	3.4	6.1	6.9	0.14	0.43	0.59	17	0.13	0.083
AA068927	Soil	0.13	3.39	2.63	8.3	75	1.7	1.3	35	0.44	0.6	0.3	<0.2	<0.1	5.9	0.06	0.02	0.05	11	0.03	0.026
AA068928	Soil	0.94	58.50	43.52	88.2	196	38.0	13.7	508	4.80	30.5	3.9	4.2	7.1	4.7	0.08	1.00	0.65	16	0.02	0.063
AA068929	Soil	0.75	77.17	49.80	90.1	142	40.3	21.1	874	4.34	21.0	3.4	2.5	4.5	5.7	0.05	0.45	0.58	18	0.04	0.073
AA068930	Soil	0.63	34.66	23.63	74.9	56	34.4	15.9	945	3.82	17.7	1.4	3.1	4.0	4.7	0.04	0.39	0.39	17	0.04	0.067



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000179.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA068901	Soil	16.1	25.1	0.79	30.5	0.002	<1	1.90	0.002	0.03	<0.1	2.4	0.03	<0.02	7	<0.1	0.05	5.4	0.62	<0.1	0.12
AA068902	Soil	15.8	23.1	0.77	28.8	0.003	<1	1.76	0.002	0.03	<0.1	2.2	0.03	<0.02	11	<0.1	0.05	4.8	0.47	<0.1	0.11
AA068903	Soil	16.7	23.2	0.75	29.9	0.002	<1	1.88	0.002	0.03	<0.1	2.5	0.03	<0.02	12	<0.1	0.08	5.2	0.69	<0.1	0.09
AA068904	Soil	11.7	28.7	0.69	21.5	0.007	<1	1.87	0.003	0.04	<0.1	1.2	0.06	0.07	41	0.2	0.05	6.0	0.90	<0.1	0.06
AA068905	Soil	17.4	27.7	0.69	24.6	0.005	<1	1.93	0.002	0.02	<0.1	1.1	0.05	0.03	17	0.1	0.03	6.0	1.09	<0.1	0.06
AA068906	Soil	16.2	29.3	0.75	25.2	0.006	<1	1.94	0.002	0.02	<0.1	1.4	0.05	0.04	21	0.2	0.05	6.2	0.99	<0.1	0.07
AA068907	Soil	17.6	30.0	0.76	34.8	0.006	<1	2.03	0.002	0.03	<0.1	1.4	0.06	0.03	33	0.2	<0.02	6.0	0.95	<0.1	0.09
AA068908	Soil	22.1	31.4	0.86	22.8	0.007	1	2.11	0.004	0.04	<0.1	1.6	0.05	0.04	27	0.2	0.03	6.1	1.02	<0.1	0.09
AA068909	Soil	16.9	22.1	0.39	25.9	0.005	1	1.39	0.003	0.04	<0.1	0.7	0.06	0.07	46	0.4	0.03	6.1	1.27	<0.1	<0.02
AA068910	Soil	25.2	33.1	0.93	37.5	0.006	<1	2.43	0.004	0.04	0.1	2.6	0.07	0.03	48	0.1	0.09	6.1	1.63	<0.1	0.08
AA068911	Soil	22.7	31.3	0.77	33.3	0.002	<1	2.25	0.004	0.03	<0.1	1.4	0.06	0.05	19	0.3	0.08	6.3	1.47	<0.1	0.17
AA068912	Soil	22.0	31.5	0.79	33.0	0.002	<1	2.25	0.005	0.03	<0.1	1.2	0.05	0.05	18	0.6	0.08	6.8	1.30	<0.1	0.16
AA068913	Soil	25.1	32.7	1.08	40.4	<0.001	<1	2.95	0.003	0.03	<0.1	2.2	0.08	0.02	10	0.1	0.07	7.0	2.05	<0.1	0.08
AA068914	Soil	24.2	27.9	0.91	31.7	0.002	<1	2.30	0.004	0.04	<0.1	2.2	0.06	<0.02	19	<0.1	0.08	6.0	1.57	<0.1	0.10
AA068915	Soil	16.8	34.7	1.06	26.0	<0.001	<1	2.51	0.004	0.04	<0.1	2.8	0.04	<0.02	21	0.1	<0.02	6.4	1.75	<0.1	0.15
AA068916	Soil	15.9	32.3	1.03	36.9	<0.001	2	2.38	0.006	0.06	<0.1	2.3	0.05	0.08	11	0.4	0.02	6.1	0.81	<0.1	0.23
AA068917	Soil	9.0	23.3	0.81	33.2	<0.001	1	1.72	0.004	0.06	<0.1	2.9	0.05	0.22	33	0.3	0.02	3.8	1.29	<0.1	0.23
AA068918	Soil	23.6	27.8	0.90	25.4	0.002	2	1.99	0.005	0.04	<0.1	5.4	0.04	<0.02	41	0.5	0.12	5.2	1.07	<0.1	0.19
AA068919	Soil	17.6	19.2	0.62	66.9	0.005	<1	1.42	0.004	0.05	<0.1	4.0	0.03	0.02	21	0.3	0.06	3.0	0.98	<0.1	0.16
AA068920	Soil	16.9	37.0	1.11	21.0	0.001	4	2.72	0.005	0.06	<0.1	2.3	0.03	<0.02	<5	0.2	0.04	6.9	1.02	<0.1	0.20
AA068921	Soil	17.2	22.1	0.47	28.3	0.010	<1	1.61	0.012	0.03	<0.1	1.7	0.06	0.03	35	0.4	0.06	5.0	3.26	<0.1	0.02
AA068922	Soil	16.4	27.8	0.77	20.7	0.001	1	1.88	0.004	0.04	<0.1	2.4	0.04	<0.02	16	0.2	0.09	5.2	2.16	<0.1	0.11
AA068923	Soil	18.9	26.8	0.83	20.2	<0.001	1	2.04	0.005	0.04	<0.1	3.5	0.02	<0.02	21	0.4	0.06	5.4	1.39	<0.1	0.16
AA068924	Soil	24.8	32.0	1.00	20.8	0.001	<1	2.43	0.004	0.04	<0.1	3.2	0.02	<0.02	13	0.4	0.08	6.4	1.87	<0.1	0.07
AA068925	Soil	18.6	27.8	0.84	25.1	0.001	<1	2.05	0.007	0.04	<0.1	3.3	0.03	0.02	24	0.2	0.06	5.6	2.31	<0.1	0.12
AA068926	Soil	18.8	34.1	0.94	18.9	0.001	<1	2.29	0.006	0.04	<0.1	1.9	0.03	0.03	33	0.4	0.06	6.9	4.55	<0.1	0.16
AA068927	Soil	1.1	2.5	0.04	9.0	0.009	1	0.17	0.030	0.02	<0.1	0.2	<0.02	<0.02	21	0.3	<0.02	1.1	0.29	<0.1	<0.02
AA068928	Soil	18.1	32.2	0.85	13.0	0.001	<1	2.19	0.005	0.03	<0.1	1.9	0.04	0.03	41	0.2	0.09	6.6	3.40	<0.1	0.19
AA068929	Soil	18.2	31.7	0.97	27.9	0.002	<1	2.43	0.007	0.04	<0.1	2.0	0.04	<0.02	20	0.5	0.03	6.5	4.01	<0.1	0.17
AA068930	Soil	21.6	26.4	0.93	24.4	0.004	<1	2.14	0.008	0.04	<0.1	1.7	0.04	<0.02	21	<0.1	0.02	5.7	1.18	<0.1	0.09



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Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA068901	Soil	0.04	2.3	0.7	<0.05	5.0	6.26	30.5	<0.02	<1	0.6	65.4	<10	<2
AA068902	Soil	0.03	1.8	0.7	<0.05	6.4	6.79	30.8	<0.02	<1	0.8	63.7	<10	<2
AA068903	Soil	0.05	2.8	1.0	<0.05	3.9	7.87	32.1	<0.02	<1	0.7	63.0	<10	<2
AA068904	Soil	0.29	5.7	1.2	<0.05	1.8	1.97	20.6	<0.02	<1	0.2	58.8	<10	<2
AA068905	Soil	0.21	3.1	0.6	<0.05	2.5	2.58	30.9	<0.02	<1	0.4	62.5	<10	<2
AA068906	Soil	0.23	3.2	1.3	<0.05	3.6	2.78	28.9	0.03	<1	0.4	66.8	<10	<2
AA068907	Soil	0.27	4.1	0.9	<0.05	3.7	3.10	32.6	<0.02	<1	0.2	73.2	<10	<2
AA068908	Soil	0.28	4.6	0.7	<0.05	2.9	3.31	38.3	<0.02	<1	0.2	77.5	<10	<2
AA068909	Soil	0.26	5.4	0.6	<0.05	0.6	2.24	29.5	<0.02	<1	0.3	31.7	<10	<2
AA068910	Soil	0.19	4.8	1.6	<0.05	3.6	7.52	45.4	0.03	<1	0.9	80.8	<10	<2
AA068911	Soil	0.21	4.1	0.7	<0.05	5.6	2.67	38.8	<0.02	<1	0.6	74.9	<10	<2
AA068912	Soil	0.16	4.1	1.1	<0.05	4.9	2.70	39.4	<0.02	<1	0.3	77.5	<10	<2
AA068913	Soil	<0.02	2.9	0.4	<0.05	4.1	6.09	45.0	0.03	<1	1.2	111.1	<10	<2
AA068914	Soil	0.09	4.0	0.6	<0.05	3.8	5.90	43.9	<0.02	<1	0.4	76.4	<10	<2
AA068915	Soil	<0.02	2.3	1.0	<0.05	8.6	9.22	30.0	0.02	<1	0.7	91.3	11	<2
AA068916	Soil	<0.02	2.5	1.4	<0.05	11.9	6.53	27.6	0.04	<1	0.3	89.4	<10	<2
AA068917	Soil	<0.02	2.5	1.9	<0.05	13.5	7.25	15.8	0.02	<1	0.2	58.7	27	<2
AA068918	Soil	0.02	2.1	1.4	<0.05	12.5	16.92	42.7	0.06	<1	0.6	73.3	18	<2
AA068919	Soil	0.08	3.0	1.1	<0.05	13.5	12.24	34.3	0.05	1	0.8	30.5	<10	<2
AA068920	Soil	<0.02	2.7	1.8	<0.05	12.5	7.66	28.9	<0.02	<1	0.6	86.0	11	3
AA068921	Soil	0.18	4.6	0.9	<0.05	1.0	3.68	33.3	<0.02	<1	0.4	37.9	<10	<2
AA068922	Soil	0.05	3.0	0.8	<0.05	4.5	4.37	29.6	0.03	<1	0.4	66.7	<10	<2
AA068923	Soil	0.05	2.3	1.3	<0.05	5.8	7.27	32.1	0.03	<1	0.6	60.5	<10	<2
AA068924	Soil	0.03	1.9	1.1	<0.05	3.2	6.42	42.6	0.03	<1	0.5	74.6	<10	<2
AA068925	Soil	0.06	2.7	0.9	<0.05	3.8	8.57	31.8	0.02	<1	0.3	60.2	<10	<2
AA068926	Soil	0.05	3.6	1.1	<0.05	4.8	2.82	33.9	0.03	<1	0.6	70.7	<10	<2
AA068927	Soil	0.02	0.8	0.7	<0.05	0.2	0.23	1.9	<0.02	<1	<0.1	1.4	<10	<2
AA068928	Soil	0.05	3.1	1.0	<0.05	6.1	2.02	30.1	0.03	<1	0.4	61.5	<10	<2
AA068929	Soil	0.10	4.5	0.7	<0.05	5.6	4.54	33.1	<0.02	<1	0.7	71.7	<10	<2
AA068930	Soil	0.13	3.9	0.8	<0.05	2.9	2.78	38.8	<0.02	<1	0.1	66.8	<10	<2



Bureau Veritas Commodities Canada Ltd.

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**Client:** Golden Predator Mining Corp.  
510 - 580 Hornby Street  
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**Project:** None Given  
**Report Date:** September 08, 2016

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**Part:** 1 of 3

# CERTIFICATE OF ANALYSIS

# WHI16000179.1

Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
AA068931	Soil	0.50	41.48	32.16	78.2	60	39.7	19.2	1104	4.07	21.9	1.7	2.5	8.6	5.6	0.06	0.41	0.38	15	0.09	0.052
AA068932	Soil	0.37	17.98	11.05	47.9	44	21.3	7.3	351	2.27	8.9	0.7	2.0	2.0	5.8	0.04	0.20	0.20	13	0.07	0.060
AA068933	Soil	0.61	48.73	34.82	90.4	80	40.6	21.8	832	4.20	19.4	2.2	1.4	8.4	8.2	0.09	0.45	0.40	18	0.09	0.060
AA068934	Soil	0.56	51.68	38.24	104.8	87	46.2	20.8	1123	4.81	42.8	1.6	31.4	7.6	6.8	0.06	0.71	0.44	17	0.09	0.060
AA068935	Soil	0.63	51.89	41.13	95.0	48	38.7	25.7	1372	4.42	76.4	1.6	12.8	6.9	5.4	0.06	0.63	0.41	17	0.05	0.062
AA068936	Soil	0.63	52.77	40.62	91.8	79	40.3	20.7	1177	4.56	69.6	1.4	11.8	5.6	5.9	0.06	0.73	0.45	16	0.05	0.068
AA068937	Soil	0.65	45.50	37.02	63.7	246	27.3	12.7	813	3.81	29.2	1.7	4.1	2.6	5.4	0.11	0.72	0.47	15	0.04	0.183
AA068938	Soil	0.85	50.99	43.70	94.3	98	39.3	17.3	1084	4.94	45.3	1.7	7.3	5.3	6.1	0.08	1.15	0.56	16	0.02	0.084
AA068939	Soil	0.86	80.46	65.70	98.8	126	47.4	31.0	3513	4.73	168.5	1.8	41.3	5.4	5.8	0.11	0.66	0.62	17	0.03	0.082
AA068940	Soil	0.89	76.23	61.47	96.8	135	51.8	26.6	3103	4.72	213.3	1.6	110.5	6.9	9.4	0.11	0.45	0.61	18	0.10	0.066
AA068941	Soil	0.89	29.40	33.79	66.4	48	27.6	17.0	1161	4.60	22.5	0.6	2.8	3.1	2.8	0.08	0.22	0.48	20	0.01	0.126
AA068942	Soil	0.85	43.28	54.85	88.6	68	38.5	27.7	3266	4.90	248.2	1.1	43.0	3.6	5.0	0.13	0.51	0.53	21	0.03	0.118
AA068943	Soil	0.75	82.57	71.70	99.9	70	45.9	44.8	3624	4.70	44.7	1.4	6.5	7.6	5.3	0.13	0.37	0.52	18	0.05	0.098
AA068944	Soil	0.91	41.44	60.32	72.0	69	31.1	25.9	2966	4.64	120.5	1.2	13.5	2.6	4.7	0.06	0.44	0.56	22	0.02	0.181
AA068945	Soil	0.59	35.44	30.25	76.1	57	33.6	18.0	1366	3.68	40.6	1.1	7.2	3.3	4.7	0.06	0.46	0.42	17	0.04	0.064
AA068946	Soil	0.42	38.11	48.82	88.1	195	40.0	20.4	682	3.47	42.2	0.9	5.2	15.0	21.9	0.17	1.89	0.38	7	0.28	0.056
AA068947	Soil	0.35	45.48	45.77	82.5	163	45.1	23.3	456	3.54	38.8	1.4	3.7	19.9	20.2	0.04	2.17	0.46	7	0.22	0.049
AA068948	Soil	0.38	44.41	39.77	86.0	78	37.9	26.9	725	3.52	97.5	1.4	15.8	15.1	11.5	0.06	0.98	0.45	9	0.06	0.028
AA068949	Soil	0.35	44.52	38.62	85.6	76	35.8	26.2	729	3.50	90.7	1.5	15.7	14.4	8.6	0.04	0.97	0.44	9	0.04	0.027
AA068950	Soil	0.35	40.90	39.14	91.8	134	35.2	19.5	735	4.10	10.0	1.7	0.7	17.2	22.3	0.10	0.71	0.56	11	0.22	0.057
AA068951	Soil	0.54	57.40	36.71	102.4	148	44.6	19.0	831	5.20	29.9	2.4	2.7	7.6	6.0	0.07	0.48	0.55	20	0.07	0.085
AA068952	Soil	0.63	51.74	37.47	53.6	155	23.1	18.9	2373	2.86	20.5	2.8	3.3	1.2	6.0	0.07	0.53	0.45	15	0.06	0.072
AA068953	Soil	1.05	53.69	41.62	94.9	71	41.7	26.3	1705	4.82	32.3	2.4	3.1	4.1	6.1	0.06	1.08	0.58	17	0.04	0.069
AA068954	Soil	1.03	48.48	39.22	99.4	48	43.2	27.3	1782	4.79	29.7	2.0	2.5	4.7	5.7	0.06	1.03	0.51	17	0.05	0.060
AA068955	Soil	0.76	39.36	39.22	77.6	82	31.9	20.5	1179	3.81	26.1	2.2	2.3	4.1	7.2	0.08	0.62	0.46	15	0.07	0.086
AA068956	Soil	0.63	41.31	33.73	82.6	56	36.3	18.0	1050	4.55	28.0	1.8	2.8	4.1	6.4	0.09	0.65	0.47	19	0.03	0.070
AA068957	Soil	0.66	43.17	24.27	55.1	68	21.2	17.5	491	2.75	20.8	3.2	2.8	1.0	12.2	0.05	1.11	0.47	13	0.03	0.086
AA068958	Soil	0.73	35.94	36.06	88.1	42	38.6	15.3	793	4.93	29.3	1.0	4.0	5.1	6.9	0.07	0.69	0.64	21	0.03	0.069
AA068959	Soil	0.58	35.98	35.60	82.9	157	31.2	15.9	825	4.10	26.6	1.1	11.7	3.4	3.4	0.14	0.56	0.38	16	0.03	0.094
AA068960	Soil	0.43	24.74	43.72	68.3	88	23.0	18.9	1295	3.10	51.0	1.2	19.6	2.9	3.1	0.15	0.43	0.26	11	0.05	0.094



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000179.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA068931	Soil	24.7	30.1	0.99	20.3	0.001	<1	2.22	0.003	0.03	<0.1	2.1	<0.02	<0.02	16	<0.1	0.09	5.7	1.06	<0.1	0.07
AA068932	Soil	14.1	16.8	0.55	21.3	0.008	<1	1.42	0.016	0.03	<0.1	1.0	0.04	<0.02	13	0.4	0.03	4.2	0.77	<0.1	0.06
AA068933	Soil	26.8	29.6	1.03	28.7	0.005	<1	2.36	0.009	0.06	<0.1	2.2	0.03	<0.02	<5	0.2	0.04	6.3	1.82	<0.1	0.03
AA068934	Soil	27.0	34.7	1.18	18.6	0.001	1	2.66	0.005	0.04	<0.1	2.2	0.03	<0.02	17	0.2	0.03	7.0	2.15	<0.1	0.09
AA068935	Soil	26.1	28.6	0.97	26.2	0.001	<1	2.37	0.006	0.04	<0.1	2.1	0.04	<0.02	15	0.2	0.04	6.3	1.89	<0.1	0.09
AA068936	Soil	20.7	30.2	1.03	16.4	<0.001	<1	2.34	0.005	0.04	<0.1	2.0	0.03	0.03	21	0.2	0.06	6.6	1.84	<0.1	0.11
AA068937	Soil	10.1	26.4	0.62	24.7	0.002	<1	1.76	0.005	0.03	<0.1	1.4	0.05	0.10	69	0.6	0.03	5.2	1.56	<0.1	0.23
AA068938	Soil	21.8	33.3	1.07	15.9	0.001	<1	2.38	0.004	0.03	<0.1	2.0	0.04	0.03	22	0.3	0.05	6.8	3.04	<0.1	0.22
AA068939	Soil	23.0	30.9	1.13	23.1	0.002	<1	2.44	0.005	0.04	<0.1	3.6	0.03	0.03	63	0.4	0.09	6.3	2.54	<0.1	0.16
AA068940	Soil	25.1	32.4	1.28	25.1	0.004	<1	2.54	0.005	0.05	<0.1	3.7	0.03	<0.02	87	<0.1	0.11	6.4	3.86	<0.1	0.07
AA068941	Soil	14.9	26.3	0.78	24.0	0.004	<1	1.90	0.004	0.04	<0.1	1.3	0.04	0.07	44	0.3	0.06	7.8	2.31	<0.1	0.12
AA068942	Soil	17.4	31.1	0.86	40.0	0.006	<1	2.13	0.004	0.04	0.1	2.0	0.05	0.05	120	0.2	0.13	6.4	3.55	<0.1	0.14
AA068943	Soil	28.2	29.4	1.18	28.6	0.005	2	2.58	0.006	0.05	0.1	3.4	0.06	0.03	152	<0.1	0.10	6.9	3.33	<0.1	0.14
AA068944	Soil	16.9	28.6	0.79	41.0	0.007	<1	2.00	0.008	0.05	<0.1	1.8	0.06	0.04	32	0.6	0.13	7.1	3.27	<0.1	0.08
AA068945	Soil	14.7	25.7	0.86	19.2	0.007	2	1.98	0.010	0.03	<0.1	1.6	0.04	0.03	32	0.3	0.05	5.9	1.25	<0.1	0.10
AA068946	Soil	19.0	13.8	0.30	51.8	0.001	<1	1.11	0.003	0.06	<0.1	2.8	0.07	<0.02	<5	0.2	0.06	2.6	1.12	<0.1	0.06
AA068947	Soil	18.7	13.7	0.31	28.9	<0.001	<1	1.08	0.003	0.06	<0.1	2.4	0.07	0.03	15	0.1	0.03	2.4	1.39	<0.1	0.09
AA068948	Soil	22.1	14.9	0.59	31.8	0.001	<1	1.34	0.004	0.04	<0.1	2.2	0.04	<0.02	<5	0.1	0.06	3.5	0.88	<0.1	0.06
AA068949	Soil	22.7	15.1	0.59	27.9	<0.001	<1	1.35	0.003	0.04	<0.1	2.3	0.05	<0.02	10	<0.1	0.06	3.3	0.80	<0.1	0.03
AA068950	Soil	17.6	20.6	0.68	55.8	0.004	<1	1.74	0.003	0.04	<0.1	2.8	0.04	<0.02	17	<0.1	0.03	4.5	0.56	<0.1	0.12
AA068951	Soil	25.8	39.1	1.16	20.7	0.002	<1	2.69	0.004	0.03	<0.1	2.4	0.04	0.03	27	0.3	0.05	8.1	2.56	<0.1	0.15
AA068952	Soil	5.7	19.5	0.59	32.0	0.003	1	1.55	0.012	0.03	<0.1	1.3	0.04	0.05	47	0.3	0.08	4.0	1.87	<0.1	0.10
AA068953	Soil	15.4	28.7	1.16	20.7	0.002	1	2.42	0.004	0.03	<0.1	2.1	0.03	<0.02	10	<0.1	0.15	6.4	1.61	<0.1	0.15
AA068954	Soil	17.5	29.9	1.18	17.2	0.002	<1	2.43	0.004	0.03	<0.1	2.0	0.03	<0.02	19	<0.1	0.12	6.2	1.33	<0.1	0.14
AA068955	Soil	12.6	26.5	0.76	29.3	0.002	<1	1.97	0.004	0.03	<0.1	1.5	0.04	0.04	21	0.2	0.08	5.2	1.82	<0.1	0.15
AA068956	Soil	17.2	30.8	0.95	20.2	0.003	<1	2.25	0.003	0.03	<0.1	1.5	0.03	0.02	16	<0.1	0.04	6.2	1.63	<0.1	0.14
AA068957	Soil	9.7	17.6	0.48	18.5	0.005	<1	1.29	0.013	0.03	<0.1	0.9	0.03	0.05	30	0.1	<0.02	3.7	1.53	<0.1	0.07
AA068958	Soil	18.5	33.4	0.99	20.5	0.005	<1	2.27	0.003	0.03	<0.1	1.8	0.03	0.03	16	0.1	0.10	7.1	1.18	<0.1	0.06
AA068959	Soil	12.9	27.5	0.70	33.4	0.002	<1	1.91	0.003	0.03	<0.1	1.3	0.04	0.05	39	0.2	0.08	5.7	0.93	<0.1	0.10
AA068960	Soil	8.1	16.6	0.32	20.1	<0.001	<1	1.39	0.003	0.03	<0.1	1.0	0.03	0.05	30	0.2	0.04	3.2	0.72	<0.1	0.06



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000179.1

Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA068931	Soil	0.03	2.3	0.8	<0.05	2.3	3.58	46.5	<0.02	<1	0.4	69.4	<10	<2
AA068932	Soil	0.15	3.2	<0.1	<0.05	2.5	1.77	26.9	<0.02	<1	0.1	42.5	<10	<2
AA068933	Soil	0.07	2.8	0.1	<0.05	2.4	3.28	48.4	0.03	<1	0.4	78.1	<10	<2
AA068934	Soil	0.03	2.6	0.2	<0.05	3.2	3.58	47.4	0.03	<1	0.3	87.2	<10	<2
AA068935	Soil	0.05	3.0	0.2	<0.05	2.9	3.73	46.6	<0.02	<1	0.4	70.8	<10	<2
AA068936	Soil	0.03	2.7	0.2	<0.05	3.7	2.56	37.1	0.02	<1	0.5	75.3	<10	<2
AA068937	Soil	0.13	3.1	0.2	<0.05	6.0	2.57	18.3	<0.02	<1	0.2	44.6	<10	<2
AA068938	Soil	0.04	2.8	0.5	<0.05	6.6	1.91	38.0	0.02	<1	0.3	78.3	<10	<2
AA068939	Soil	0.05	3.5	0.2	<0.05	4.9	9.09	43.1	0.03	<1	0.3	82.9	10	<2
AA068940	Soil	0.05	4.1	0.2	<0.05	3.7	11.77	47.6	0.02	<1	1.0	93.6	<10	<2
AA068941	Soil	0.16	5.7	0.2	<0.05	4.9	1.45	26.5	<0.02	<1	0.2	53.5	<10	<2
AA068942	Soil	0.25	5.4	0.2	<0.05	4.2	2.93	33.6	<0.02	<1	0.7	64.0	<10	<2
AA068943	Soil	0.11	5.4	0.9	<0.05	4.8	9.78	58.5	0.03	1	1.0	90.4	<10	<2
AA068944	Soil	0.17	6.9	0.4	<0.05	2.2	2.61	33.0	0.03	<1	0.2	58.0	<10	<2
AA068945	Soil	0.17	3.4	0.5	<0.05	2.9	2.38	28.8	0.02	<1	0.2	62.0	<10	<2
AA068946	Soil	0.02	4.0	0.3	<0.05	5.1	8.38	39.9	<0.02	<1	0.7	17.3	<10	<2
AA068947	Soil	0.02	4.3	0.2	<0.05	6.3	7.52	38.1	<0.02	<1	0.6	20.9	<10	<2
AA068948	Soil	<0.02	2.8	0.1	<0.05	5.7	3.81	40.1	<0.02	<1	0.6	35.1	<10	<2
AA068949	Soil	<0.02	2.7	0.1	<0.05	2.9	3.57	42.1	0.02	<1	0.6	35.8	<10	2
AA068950	Soil	0.10	2.5	0.2	<0.05	6.6	9.44	34.9	0.03	<1	0.6	52.0	<10	3
AA068951	Soil	0.06	2.8	0.2	<0.05	5.5	2.69	45.2	0.03	<1	0.2	89.8	<10	<2
AA068952	Soil	0.11	3.5	0.2	<0.05	3.8	4.52	11.2	0.03	<1	0.4	45.7	<10	<2
AA068953	Soil	0.05	3.0	0.2	<0.05	5.5	4.03	28.2	0.02	<1	0.2	83.9	<10	<2
AA068954	Soil	0.06	2.5	0.3	<0.05	4.6	3.43	31.7	<0.02	<1	0.6	86.9	<10	4
AA068955	Soil	0.10	3.4	0.2	<0.05	5.2	3.22	23.6	<0.02	<1	0.5	58.4	<10	2
AA068956	Soil	0.13	3.9	0.2	<0.05	4.0	2.00	31.3	<0.02	<1	0.5	73.0	<10	<2
AA068957	Soil	0.08	2.2	0.2	<0.05	2.4	1.62	17.4	<0.02	<1	0.2	41.1	<10	3
AA068958	Soil	0.19	2.8	0.2	<0.05	2.6	2.00	33.0	<0.02	<1	0.3	77.1	<10	2
AA068959	Soil	0.15	3.0	0.2	<0.05	3.9	1.89	23.5	<0.02	<1	0.4	51.4	<10	<2
AA068960	Soil	0.06	2.6	0.2	<0.05	2.4	2.25	15.9	<0.02	<1	0.5	19.6	<10	<2



Bureau Veritas Commodities Canada Ltd.

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**Client:** Golden Predator Mining Corp.  
510 - 580 Hornby Street  
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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000179.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
AA068961	Soil	0.55	68.47	57.67	108.8	184	49.0	31.4	1319	4.62	45.5	2.6	12.3	8.2	7.0	0.11	0.82	0.44	15	0.10	0.062
AA068962	Soil	0.69	47.57	38.51	92.3	81	42.8	25.5	1808	4.56	32.5	1.3	3.3	4.1	4.8	0.07	0.76	0.46	18	0.03	0.087
AA068963	Soil	0.72	55.69	35.48	98.4	54	49.6	32.2	3600	4.85	44.5	1.1	5.5	4.2	5.0	0.15	0.29	0.43	18	0.06	0.092
AA068964	Soil	0.65	74.17	61.48	105.7	92	52.5	36.9	2039	4.94	75.6	2.1	20.8	7.2	7.0	0.11	0.93	0.52	18	0.11	0.070
AA068965	Soil	0.44	20.88	33.89	33.4	50	13.4	14.2	1969	2.05	43.7	0.6	1.5	0.2	3.6	0.04	0.18	0.29	12	0.03	0.107
AA068966	Soil	0.67	53.74	43.26	92.0	155	41.3	24.8	1882	4.85	61.1	1.7	6.4	4.8	7.2	0.08	1.37	0.50	17	0.06	0.085
AA068967	Soil	0.42	27.85	26.02	39.7	57	17.5	16.8	2094	1.90	17.6	0.6	1.3	0.4	6.1	0.08	0.50	0.19	12	0.06	0.071
AA068968	Soil	0.27	29.37	25.57	72.4	96	29.1	15.0	410	2.89	116.6	1.1	23.4	12.1	13.9	0.05	1.91	0.37	5	0.13	0.034
AA068969	Soil	0.37	34.27	33.03	79.3	209	35.2	19.0	513	3.34	186.6	1.3	32.7	13.9	20.8	0.12	2.35	0.38	8	0.21	0.047
AA068970	Soil	0.51	37.76	28.96	86.9	246	41.5	26.8	559	3.85	460.9	2.0	50.1	16.7	28.4	0.07	1.71	0.38	9	0.24	0.050
AA068971	Soil	0.56	36.86	36.10	92.0	193	38.0	22.6	625	3.84	474.1	2.1	42.1	14.8	24.9	0.11	1.52	0.40	10	0.26	0.057
AA068972	Soil	0.36	30.28	20.36	55.8	61	25.8	13.3	457	2.91	754.7	1.3	57.9	4.3	10.2	0.13	1.59	0.39	11	0.09	0.062
AA068973	Soil	1.22	71.21	92.55	98.0	315	57.6	50.5	1418	5.10	330.7	1.3	43.1	10.3	32.1	0.10	1.48	0.90	18	0.24	0.061
AA068974	Soil	0.55	50.10	39.42	91.0	216	43.8	23.3	554	4.33	71.1	2.1	14.4	9.5	79.4	0.13	3.86	0.51	9	1.58	0.084
AA068975	Soil	0.23	28.78	28.33	50.3	171	27.9	17.5	557	2.90	41.9	2.0	20.8	18.3	24.4	0.08	2.12	0.27	6	0.26	0.044
AA068976	Soil	0.44	42.59	37.11	84.9	244	43.7	20.9	418	3.94	40.1	1.9	19.5	15.6	38.3	0.11	5.11	0.49	5	0.62	0.064
AA068977	Soil	0.53	42.47	35.50	96.2	138	48.7	22.5	627	4.32	14.3	1.9	2.3	15.3	46.9	0.13	0.99	0.35	17	0.48	0.074
AA068978	Soil	0.58	54.92	43.32	109.7	203	41.2	23.8	554	4.43	13.5	1.9	2.0	12.4	30.1	0.15	0.73	0.50	12	0.44	0.066
AA068979	Soil	0.85	68.40	47.02	116.0	173	51.7	31.6	710	5.09	12.1	2.1	0.5	15.5	19.1	0.16	0.63	0.58	15	0.28	0.068
AA068980	Soil	0.63	71.71	50.28	107.0	175	47.3	31.1	625	4.70	17.8	2.3	4.6	15.4	23.8	0.10	1.28	0.63	14	0.32	0.074
AA068981	Soil	0.69	65.62	46.72	104.0	151	48.4	32.4	754	4.74	11.6	2.4	1.5	14.5	17.6	0.09	0.57	0.57	15	0.22	0.059
AA068982	Soil	0.68	78.08	67.45	100.5	86	46.9	54.9	1569	4.56	17.4	3.0	0.3	12.0	11.0	0.12	1.19	0.52	17	0.06	0.074
AA068983	Soil	0.92	70.10	64.18	101.5	156	53.3	38.8	938	4.72	16.4	2.9	1.0	14.7	13.2	0.20	0.88	0.55	11	0.16	0.057
AA068984	Soil	0.66	83.62	60.55	96.0	110	43.0	57.2	1262	4.05	16.8	4.0	1.4	11.6	12.1	0.09	0.66	0.60	16	0.07	0.055
AA068985	Soil	0.40	44.50	36.84	81.7	70	33.3	24.2	793	3.51	10.0	1.8	0.7	8.8	9.6	0.06	0.48	0.39	14	0.04	0.056
AA068986	Soil	0.49	49.91	56.55	89.0	91	37.6	31.0	1112	4.01	12.0	2.0	0.4	9.4	9.9	0.06	0.52	0.50	16	0.04	0.057
AA068987	Soil	0.53	53.44	49.96	83.8	104	37.1	33.2	878	3.77	15.2	3.0	1.8	12.2	8.4	0.05	1.08	0.54	13	0.06	0.046
AA068988	Soil	0.63	26.53	47.46	68.2	40	25.9	17.4	908	3.64	21.4	1.1	4.3	5.7	4.5	0.09	0.74	0.66	13	0.02	0.072
AA068989	Soil	0.33	39.29	43.06	86.0	53	34.2	20.2	750	3.64	11.1	1.7	1.8	13.5	12.1	0.07	0.53	0.58	12	0.12	0.043
AA068990	Soil	0.49	46.35	49.09	85.7	105	31.5	18.6	604	3.54	16.3	10.6	1.3	12.2	36.0	0.10	0.78	0.66	11	0.34	0.060



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000179.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA068961	Soil	21.1	32.0	1.02	16.7	<0.001	<1	2.47	0.004	0.03	<0.1	2.4	0.03	<0.02	42	<0.1	0.04	6.1	2.26	<0.1	0.09
AA068962	Soil	15.8	32.4	1.13	23.3	0.002	<1	2.41	0.004	0.03	<0.1	2.0	0.03	0.04	35	0.3	0.06	6.4	1.65	<0.1	0.22
AA068963	Soil	16.5	33.3	1.21	20.6	0.004	<1	2.61	0.004	0.03	<0.1	2.9	0.03	0.04	52	0.3	0.14	6.4	1.54	<0.1	0.14
AA068964	Soil	25.4	34.2	1.24	19.2	0.001	<1	2.59	0.004	0.04	<0.1	3.3	0.05	<0.02	41	0.2	0.09	6.8	2.13	<0.1	0.05
AA068965	Soil	5.5	11.4	0.28	20.6	0.004	<1	0.94	0.016	0.02	<0.1	0.4	0.03	0.07	83	0.2	0.03	3.9	1.10	<0.1	<0.02
AA068966	Soil	15.4	31.0	1.10	15.5	0.002	<1	2.33	0.005	0.03	<0.1	2.2	0.04	0.03	23	0.2	0.08	6.9	2.41	<0.1	0.15
AA068967	Soil	7.2	11.5	0.41	19.5	0.008	<1	1.13	0.020	0.03	<0.1	0.9	0.04	0.03	82	<0.1	0.07	3.5	1.05	<0.1	<0.02
AA068968	Soil	20.6	5.9	0.12	25.4	<0.001	<1	0.48	0.003	0.04	<0.1	2.1	0.03	<0.02	7	<0.1	0.04	1.1	1.21	<0.1	0.10
AA068969	Soil	23.3	11.4	0.39	24.3	<0.001	<1	1.03	0.003	0.04	<0.1	2.4	0.03	0.03	10	<0.1	0.07	2.4	1.02	<0.1	0.07
AA068970	Soil	15.9	15.0	0.43	30.7	<0.001	<1	1.33	0.004	0.04	<0.1	2.4	0.02	<0.02	10	<0.1	0.06	3.1	1.31	<0.1	0.15
AA068971	Soil	20.5	14.7	0.43	30.0	0.003	<1	1.19	0.004	0.04	<0.1	3.4	0.03	<0.02	19	0.1	0.04	2.9	0.91	<0.1	0.09
AA068972	Soil	14.1	8.6	0.18	42.5	0.003	<1	0.96	0.012	0.04	<0.1	1.3	0.05	<0.02	21	<0.1	0.04	2.5	1.56	<0.1	0.06
AA068973	Soil	19.9	24.3	1.15	25.8	0.001	<1	2.20	0.002	0.04	<0.1	4.2	0.03	<0.02	19	0.2	0.52	4.9	1.28	<0.1	0.16
AA068974	Soil	19.3	11.4	0.46	26.9	0.002	<1	1.17	0.003	0.04	<0.1	3.6	0.03	0.09	33	0.3	0.07	2.5	0.71	<0.1	0.12
AA068975	Soil	17.0	5.0	0.27	39.8	0.001	<1	1.04	0.006	0.03	<0.1	2.4	0.03	<0.02	16	0.1	0.02	1.6	0.75	<0.1	0.06
AA068976	Soil	15.5	7.1	0.29	23.2	0.001	<1	0.79	0.004	0.03	<0.1	3.5	0.03	0.15	32	0.5	0.03	1.5	0.59	<0.1	0.09
AA068977	Soil	18.9	27.4	0.85	73.5	0.024	<1	1.98	0.005	0.05	<0.1	3.6	0.03	<0.02	24	<0.1	0.08	4.5	0.69	<0.1	0.18
AA068978	Soil	22.3	20.9	0.65	39.3	0.002	<1	1.68	0.005	0.05	<0.1	4.3	0.03	<0.02	28	0.1	0.07	4.1	0.66	<0.1	0.15
AA068979	Soil	30.0	31.3	0.98	27.4	0.002	<1	2.16	0.006	0.04	<0.1	2.9	0.03	<0.02	27	0.3	0.07	5.3	0.84	<0.1	0.23
AA068980	Soil	22.8	26.3	0.83	29.3	0.001	<1	2.00	0.004	0.04	<0.1	3.6	0.03	<0.02	23	0.3	0.08	4.8	0.76	<0.1	0.11
AA068981	Soil	20.9	29.9	0.93	33.1	0.001	<1	2.12	0.005	0.03	<0.1	3.2	0.03	<0.02	22	<0.1	0.06	5.3	0.65	<0.1	0.10
AA068982	Soil	23.4	28.9	0.94	34.5	0.002	<1	2.40	0.006	0.04	<0.1	2.5	0.06	<0.02	18	0.3	0.04	5.8	1.52	<0.1	0.04
AA068983	Soil	18.9	20.7	0.72	29.2	0.001	<1	1.72	0.006	0.03	<0.1	2.8	0.03	<0.02	33	<0.1	<0.02	4.2	0.86	<0.1	0.03
AA068984	Soil	19.5	25.4	0.80	27.4	0.002	<1	2.08	0.010	0.04	<0.1	2.1	0.06	<0.02	30	0.1	0.05	5.1	1.68	<0.1	0.05
AA068985	Soil	16.6	23.7	0.73	19.6	0.003	<1	1.84	0.009	0.03	<0.1	1.7	0.04	<0.02	25	0.3	0.05	5.2	0.80	<0.1	0.05
AA068986	Soil	18.5	27.3	0.83	21.3	0.002	<1	2.09	0.006	0.03	<0.1	1.8	0.04	<0.02	31	0.3	0.06	5.5	0.86	<0.1	0.06
AA068987	Soil	18.7	23.6	0.74	31.9	0.002	<1	1.87	0.007	0.03	<0.1	1.8	0.05	<0.02	23	0.3	0.04	4.7	1.16	<0.1	0.04
AA068988	Soil	12.2	21.4	0.51	20.7	0.006	2	1.53	0.005	0.02	<0.1	1.1	0.05	0.02	24	0.3	0.05	4.4	0.67	<0.1	0.05
AA068989	Soil	15.0	23.5	0.70	27.4	0.002	2	1.83	0.004	0.02	<0.1	1.7	0.03	<0.02	19	<0.1	0.07	4.7	0.55	<0.1	0.05
AA068990	Soil	12.1	20.9	0.56	41.4	0.002	2	1.77	0.009	0.04	<0.1	2.2	0.04	0.03	27	0.2	0.06	4.2	0.80	<0.1	0.15



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Client: **Golden Predator Mining Corp.**

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Project: None Given

Report Date: September 08, 2016

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Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA068961	Soil	0.08	2.2	0.1	<0.05	3.2	3.89	38.4	<0.02	<1	0.4	87.6	<10	<2
AA068962	Soil	0.09	2.8	0.2	<0.05	6.1	2.06	27.2	0.02	<1	0.5	86.3	<10	3
AA068963	Soil	0.08	2.9	1.6	<0.05	4.1	5.79	33.2	<0.02	<1	0.4	90.8	<10	3
AA068964	Soil	<0.02	2.0	0.1	<0.05	2.3	4.79	45.5	<0.02	<1	0.4	96.5	<10	<2
AA068965	Soil	0.06	2.2	0.2	<0.05	0.9	1.18	10.6	<0.02	<1	0.4	24.0	<10	<2
AA068966	Soil	0.06	2.5	0.2	<0.05	5.2	3.03	27.0	<0.02	<1	0.4	83.0	<10	<2
AA068967	Soil	0.07	2.4	0.2	<0.05	0.8	3.64	13.8	<0.02	<1	0.1	29.7	<10	<2
AA068968	Soil	<0.02	2.6	0.2	<0.05	7.1	5.08	39.9	<0.02	<1	0.2	5.9	<10	<2
AA068969	Soil	<0.02	2.8	0.5	<0.05	6.3	5.36	43.0	<0.02	<1	0.4	25.6	<10	<2
AA068970	Soil	<0.02	2.8	0.4	<0.05	10.2	5.61	31.2	<0.02	<1	0.8	29.7	<10	<2
AA068971	Soil	0.10	2.6	0.4	<0.05	6.0	8.98	40.5	<0.02	<1	0.3	25.3	<10	3
AA068972	Soil	0.07	5.4	0.3	<0.05	0.8	3.91	26.8	<0.02	<1	0.2	10.4	<10	<2
AA068973	Soil	<0.02	2.3	0.3	<0.05	13.7	6.26	34.4	0.02	<1	0.4	60.7	<10	2
AA068974	Soil	0.07	2.3	0.2	<0.05	6.1	8.42	35.2	<0.02	<1	0.8	26.0	<10	<2
AA068975	Soil	0.03	2.5	0.2	<0.05	5.2	9.24	33.9	0.02	<1	0.3	8.7	<10	<2
AA068976	Soil	0.03	2.2	0.2	<0.05	8.0	10.78	29.9	<0.02	<1	0.6	18.1	<10	<2
AA068977	Soil	0.22	2.9	0.3	<0.05	14.7	10.94	35.1	0.03	<1	0.5	51.5	<10	4
AA068978	Soil	0.04	2.6	0.2	<0.05	5.9	12.54	41.5	0.03	1	0.2	50.2	12	<2
AA068979	Soil	<0.02	2.1	0.3	<0.05	13.7	8.73	53.2	0.03	<1	0.5	83.6	<10	<2
AA068980	Soil	<0.02	2.3	0.2	<0.05	8.6	9.55	41.9	<0.02	<1	0.3	66.4	<10	2
AA068981	Soil	<0.02	1.7	0.2	<0.05	5.5	7.39	34.8	<0.02	<1	0.4	77.9	<10	<2
AA068982	Soil	0.06	4.0	0.2	<0.05	2.5	8.52	41.3	<0.02	<1	0.5	80.9	<10	<2
AA068983	Soil	0.05	2.0	0.1	<0.05	4.8	8.29	33.1	<0.02	<1	0.3	57.5	<10	<2
AA068984	Soil	0.06	3.3	0.1	<0.05	2.4	6.61	33.9	<0.02	<1	0.6	71.0	<10	<2
AA068985	Soil	0.06	2.8	<0.1	<0.05	2.3	4.47	29.1	<0.02	<1	0.3	71.2	<10	<2
AA068986	Soil	0.06	3.4	0.2	<0.05	2.9	5.07	32.3	<0.02	<1	0.3	79.3	<10	<2
AA068987	Soil	0.05	2.8	0.2	<0.05	2.9	5.30	32.0	0.03	<1	0.5	70.9	<10	<2
AA068988	Soil	0.25	3.6	0.3	<0.05	1.4	2.26	24.3	0.04	<1	0.2	36.7	<10	<2
AA068989	Soil	0.06	2.5	0.2	<0.05	2.5	5.18	25.7	0.02	<1	0.3	60.4	<10	<2
AA068990	Soil	0.15	4.2	0.3	<0.05	5.5	8.54	20.3	0.03	<1	0.5	45.6	<10	<2



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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**Client:** Golden Predator Mining Corp.  
510 - 580 Hornby Street  
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**Project:** None Given  
**Report Date:** September 08, 2016

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**Part:** 1 of 3

# CERTIFICATE OF ANALYSIS

WHI16000179.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
AA068991	Soil	0.48	45.51	47.33	84.1	103	30.7	18.3	740	3.50	16.8	7.7	2.2	10.4	31.1	0.10	0.83	0.67	12	0.28	0.062
AA068992	Soil	0.40	47.12	48.66	95.4	99	39.0	23.9	895	4.04	11.4	1.6	2.0	17.9	20.2	0.10	0.92	0.62	11	0.22	0.054
AA068993	Soil	0.38	39.30	43.46	92.5	128	37.8	20.6	744	3.91	11.4	1.6	0.9	18.6	25.7	0.09	0.87	0.52	8	0.28	0.053
AA068994	Soil	0.48	48.76	47.16	90.5	165	44.8	30.9	1218	4.46	8.3	2.5	1.1	22.7	23.5	0.10	0.68	0.63	10	0.21	0.061
AA068995	Soil	0.27	26.98	21.71	44.9	75	18.0	13.2	698	2.00	2.9	1.4	0.5	5.6	8.6	0.10	0.26	0.25	8	0.09	0.063
AA068996	Soil	0.35	38.42	37.27	80.3	94	38.6	24.6	747	3.95	5.1	2.4	0.9	17.7	19.0	0.07	0.55	0.44	11	0.14	0.050
AA068997	Soil	0.34	46.06	40.77	85.0	123	48.7	33.9	810	4.75	4.1	2.0	0.9	24.6	30.2	0.04	0.41	0.49	12	0.33	0.047
AA068998	Soil	0.48	58.43	37.42	97.3	125	50.2	38.0	743	4.70	4.7	2.3	0.3	26.5	20.1	0.05	0.38	0.56	11	0.24	0.036
AA068999	Soil	0.43	39.29	40.98	68.2	131	37.1	24.6	1083	4.43	11.1	3.1	1.6	21.7	19.2	0.07	1.99	0.39	11	0.17	0.052
AA069000	Soil	0.54	37.98	32.78	90.8	57	31.5	16.7	1137	4.17	13.5	2.0	2.4	6.7	10.7	0.18	2.07	0.40	16	0.09	0.089
AA068471	Soil	0.53	50.50	43.70	113.1	55	36.5	25.5	898	4.75	67.4	1.9	13.3	6.3	8.5	0.14	1.70	0.52	15	0.05	0.102
AA068472	Soil	0.29	36.97	25.88	84.9	93	35.1	16.8	301	3.62	121.7	1.8	58.2	13.9	19.4	0.06	1.65	0.36	9	0.15	0.045
AA068473	Soil	0.54	48.57	42.47	99.3	238	44.8	28.7	694	4.34	118.4	2.2	35.1	15.8	59.2	0.17	2.47	0.50	11	0.82	0.069
AA068474	Soil	0.33	12.85	30.36	46.6	69	24.3	15.6	735	3.13	16.8	1.4	3.2	10.2	14.5	0.09	2.38	0.33	5	0.14	0.078
AA068475	Soil	0.36	34.26	34.58	89.7	93	29.8	18.8	479	3.31	20.7	2.1	3.1	7.8	14.4	0.12	1.11	0.41	11	0.14	0.085
AA068476	Soil	0.56	46.46	57.79	110.5	73	37.1	36.0	910	4.16	15.8	2.3	1.4	14.7	9.5	0.06	1.01	0.53	14	0.06	0.076
AA068477	Soil	0.38	44.53	49.21	79.3	76	26.1	25.3	1211	3.03	37.2	2.0	6.4	8.2	6.6	0.06	0.57	0.33	9	0.02	0.056
AA068478	Soil	0.33	53.30	53.64	107.3	107	44.1	37.0	983	4.04	4.6	2.0	0.8	21.4	17.0	0.11	0.37	0.44	10	0.21	0.042
AA068479	Soil	0.26	41.74	30.38	97.1	116	41.1	19.8	509	3.73	4.4	1.4	0.2	24.9	22.7	0.06	0.26	0.42	9	0.33	0.043
AA068480	Soil	0.35	46.19	42.68	102.6	105	41.2	21.9	568	4.02	7.1	1.8	0.4	23.2	22.1	0.08	0.44	0.50	8	0.32	0.064



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**Project:** None Given  
**Report Date:** September 08, 2016

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**Part:** 2 of 3

# CERTIFICATE OF ANALYSIS

WHI16000179.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.1	0.02
AA068991	Soil	13.2	20.9	0.54	43.7	0.003	1	1.80	0.009	0.04	<0.1	2.1	0.04	0.03	23	<0.1	0.06	4.4	0.94	<0.1	0.09	
AA068992	Soil	18.0	22.0	0.70	28.7	0.002	1	1.70	0.003	0.03	<0.1	2.5	0.03	<0.02	16	<0.1	0.06	4.4	0.51	<0.1	0.11	
AA068993	Soil	15.2	19.5	0.63	21.7	0.002	1	1.43	0.003	0.03	<0.1	2.7	0.04	0.02	23	<0.1	<0.02	3.8	0.43	<0.1	0.12	
AA068994	Soil	17.3	23.0	0.74	39.3	0.003	<1	1.85	0.005	0.04	<0.1	3.0	0.04	<0.02	34	<0.1	0.02	4.6	0.88	<0.1	0.15	
AA068995	Soil	9.5	10.9	0.31	26.5	0.009	1	1.05	0.018	0.02	<0.1	1.7	0.03	<0.02	31	0.1	<0.02	2.6	0.37	<0.1	0.07	
AA068996	Soil	14.8	22.8	0.70	23.7	0.003	1	1.71	0.004	0.02	<0.1	2.3	0.03	<0.02	25	<0.1	0.03	4.4	0.70	<0.1	0.09	
AA068997	Soil	12.6	28.2	0.95	27.6	<0.001	<1	2.18	0.002	0.04	<0.1	3.1	0.03	<0.02	41	<0.1	<0.02	5.4	1.50	0.1	0.23	
AA068998	Soil	12.9	28.9	0.92	33.0	0.001	<1	2.16	0.005	0.05	<0.1	2.5	0.04	<0.02	33	<0.1	<0.02	5.6	1.40	<0.1	0.37	
AA068999	Soil	12.8	20.5	0.70	34.7	0.002	<1	1.86	0.004	0.03	<0.1	3.8	0.04	<0.02	31	<0.1	<0.02	4.7	1.06	<0.1	0.10	
AA069000	Soil	15.4	21.2	0.52	46.6	0.006	<1	1.75	0.007	0.04	<0.1	2.7	0.06	0.03	31	0.1	0.02	4.8	1.17	<0.1	0.07	
AA068471	Soil	14.1	21.9	0.44	36.0	0.004	<1	1.59	0.005	0.04	<0.1	2.2	0.05	0.02	13	0.3	0.05	4.3	1.59	<0.1	0.10	
AA068472	Soil	18.0	14.4	0.39	26.7	0.001	<1	1.26	0.003	0.03	<0.1	2.4	0.02	<0.02	17	<0.1	0.03	2.8	0.77	<0.1	0.05	
AA068473	Soil	23.9	15.2	0.41	34.3	0.003	<1	1.23	0.003	0.04	<0.1	4.5	0.04	<0.02	40	0.2	0.05	2.8	1.06	<0.1	0.13	
AA068474	Soil	13.2	4.7	0.15	36.5	0.001	<1	0.95	0.003	0.04	<0.1	1.8	0.04	0.03	25	0.2	0.06	1.4	1.05	<0.1	0.09	
AA068475	Soil	16.5	15.2	0.44	37.7	0.003	<1	1.59	0.007	0.04	<0.1	1.9	0.05	0.02	14	<0.1	0.04	3.8	1.02	<0.1	0.04	
AA068476	Soil	11.0	25.3	0.72	18.9	0.004	1	1.92	0.003	0.04	<0.1	1.6	0.05	<0.02	21	<0.1	0.04	5.3	0.71	<0.1	0.06	
AA068477	Soil	15.4	13.8	0.41	29.9	0.002	<1	1.48	0.006	0.03	<0.1	1.2	0.05	0.02	25	0.2	0.03	3.5	1.27	<0.1	0.04	
AA068478	Soil	20.6	24.8	0.81	28.7	0.001	<1	1.90	0.003	0.04	<0.1	2.1	0.04	<0.02	26	<0.1	<0.02	4.9	0.69	<0.1	0.17	
AA068479	Soil	17.8	22.1	0.77	27.7	<0.001	<1	1.76	0.002	0.05	<0.1	2.8	0.03	<0.02	19	<0.1	<0.02	4.1	0.70	<0.1	0.15	
AA068480	Soil	22.2	20.8	0.71	19.5	0.002	<1	1.53	0.002	0.03	<0.1	2.3	0.03	<0.02	29	<0.1	0.03	4.0	0.50	<0.1	0.17	



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**Project:** None Given  
**Report Date:** September 08, 2016

**Page:** 12 of 12

**Part:** 3 of 3

# CERTIFICATE OF ANALYSIS

WHI16000179.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA068991	Soil	0.18	4.7	0.3	<0.05	4.0	7.70	23.4	0.03	<1	0.7	46.4	<10	<2
AA068992	Soil	0.03	2.4	0.3	<0.05	5.7	9.24	33.5	0.03	<1	0.5	54.0	<10	<2
AA068993	Soil	0.05	1.7	0.2	<0.05	8.6	9.43	27.4	0.02	<1	0.5	48.2	<10	2
AA068994	Soil	0.03	2.9	0.4	<0.05	13.8	12.70	32.9	0.03	<1	0.6	56.6	<10	<2
AA068995	Soil	0.18	2.3	0.2	<0.05	2.2	7.93	18.3	0.02	<1	0.5	23.3	<10	<2
AA068996	Soil	0.05	2.2	0.2	<0.05	6.2	9.96	27.4	<0.02	<1	0.4	54.2	<10	<2
AA068997	Soil	0.02	2.6	0.3	<0.05	13.2	12.77	24.2	0.03	<1	0.7	76.4	<10	<2
AA068998	Soil	0.02	2.8	0.3	<0.05	23.1	9.44	24.4	0.02	<1	0.9	73.4	<10	3
AA068999	Soil	0.04	2.5	0.2	<0.05	8.7	17.62	27.4	0.04	<1	0.8	51.3	<10	<2
AA069000	Soil	0.18	5.1	0.4	<0.05	2.0	11.17	31.1	0.04	<1	0.6	36.5	<10	<2
AA068471	Soil	0.10	4.6	0.2	<0.05	3.1	6.36	26.4	0.04	<1	0.3	33.3	<10	<2
AA068472	Soil	0.06	2.5	0.2	<0.05	3.3	8.26	32.4	0.03	<1	0.4	24.5	<10	<2
AA068473	Soil	0.13	2.7	0.3	<0.05	6.6	14.48	41.0	0.05	<1	0.5	23.9	<10	<2
AA068474	Soil	0.08	4.7	0.5	<0.05	3.0	6.96	28.8	0.03	<1	0.3	7.2	<10	<2
AA068475	Soil	0.10	5.6	0.2	<0.05	2.3	7.81	29.8	0.03	<1	0.6	25.5	<10	<2
AA068476	Soil	0.09	4.4	0.3	<0.05	2.3	4.22	22.0	0.02	<1	0.4	47.6	<10	<2
AA068477	Soil	0.09	4.4	0.2	<0.05	1.9	3.47	30.9	0.02	<1	0.3	27.2	<10	<2
AA068478	Soil	0.03	2.6	0.2	<0.05	9.7	9.29	38.5	0.03	<1	0.9	63.0	<10	<2
AA068479	Soil	0.02	2.6	0.2	<0.05	11.0	10.01	31.8	<0.02	<1	0.6	59.3	<10	<2
AA068480	Soil	0.03	1.7	0.1	<0.05	13.9	9.24	40.0	0.02	<1	0.7	56.0	<10	<2



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**Project:** None Given  
**Report Date:** September 08, 2016

**Page:** 1 of 2 **Part:** 1 of 3

# QUALITY CONTROL REPORT

# WHI16000179.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251		
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%		
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
Pulp Duplicates																						
AA068727	Soil	0.40	56.56	49.38	102.6	127	46.2	32.7	983	4.53	11.9	1.6	1.2	19.2	27.2	0.10	0.89	0.70	11	0.30	0.056	
REP AA068727	QC	0.37	58.63	49.98	105.4	129	47.6	33.3	978	4.56	11.7	1.6	2.1	18.8	26.1	0.09	0.87	0.69	11	0.30	0.057	
AA068763	Soil	0.66	46.60	35.07	105.6	169	42.2	15.7	330	4.00	126.3	1.5	28.8	6.0	37.7	0.19	1.68	0.45	13	0.72	0.067	
REP AA068763	QC	0.63	48.09	35.45	107.9	167	42.7	15.8	337	4.16	126.5	1.6	26.3	6.9	39.4	0.17	1.78	0.45	14	0.72	0.067	
AA068799	Soil	1.28	88.26	64.17	101.9	150	55.9	45.5	3315	5.00	41.2	1.7	3.0	6.5	7.4	0.05	1.40	0.66	17	0.08	0.062	
REP AA068799	QC	1.22	87.12	63.93	101.4	131	55.1	45.9	3261	5.03	40.6	1.7	3.5	6.8	7.3	0.05	1.38	0.67	18	0.08	0.064	
AA068835	Soil	1.08	77.34	50.60	115.7	145	69.7	50.7	1054	4.67	19.6	3.9	2.4	17.5	30.9	0.17	1.16	0.46	15	0.21	0.075	
REP AA068835	QC	1.13	75.17	51.13	114.9	137	65.4	50.4	1056	4.59	19.9	3.9	2.2	17.6	30.8	0.21	1.20	0.46	15	0.21	0.070	
AA068871	Soil	0.55	63.80	68.93	99.6	71	33.7	27.9	857	3.67	55.1	1.3	4.0	8.5	8.1	0.07	0.48	0.55	17	0.04	0.090	
REP AA068871	QC	0.57	64.66	69.30	103.9	68	34.5	27.4	871	3.58	56.0	1.3	3.3	8.8	7.7	0.05	0.50	0.55	16	0.04	0.085	
AA068907	Soil	0.76	36.04	50.40	88.7	33	38.2	27.1	723	4.08	16.5	1.0	1.4	5.3	6.0	0.08	0.64	0.54	23	0.03	0.050	
REP AA068907	QC	0.80	36.27	50.16	88.8	21	35.4	26.8	724	4.11	16.0	1.0	4.6	5.3	6.1	0.08	0.65	0.53	24	0.03	0.051	
AA068944	Soil	0.91	41.44	60.32	72.0	69	31.1	25.9	2966	4.64	120.5	1.2	13.5	2.6	4.7	0.06	0.44	0.56	22	0.02	0.181	
REP AA068944	QC	0.77	42.46	59.73	72.3	67	31.0	25.8	3002	4.66	121.4	1.2	12.6	2.4	4.8	0.07	0.40	0.58	22	0.02	0.185	
AA068979	Soil	0.85	68.40	47.02	116.0	173	51.7	31.6	710	5.09	12.1	2.1	0.5	15.5	19.1	0.16	0.63	0.58	15	0.28	0.068	
REP AA068979	QC	0.83	68.14	46.86	110.2	150	52.2	31.9	693	5.04	12.7	2.2	<0.2	15.6	19.8	0.20	0.67	0.59	15	0.27	0.069	
Reference Materials																						
STD DS10	Standard	14.91	161.68	143.91	358.0	1959	76.4	13.6	864	2.80	47.2	2.5	74.1	7.2	63.1	2.83	8.50	12.42	46	1.08	0.071	
STD DS10	Standard	15.36	154.17	153.18	363.8	1872	75.7	13.2	884	2.80	45.5	2.8	79.4	7.7	70.1	2.53	8.75	12.57	44	1.09	0.075	
STD DS10	Standard	15.18	157.78	153.06	366.1	1730	77.8	13.7	882	2.82	45.8	2.8	69.7	7.9	65.9	2.54	8.95	12.55	45	1.07	0.071	
STD DS10	Standard	15.18	155.59	155.89	368.8	1889	76.0	12.9	890	2.74	44.3	2.7	99.9	7.7	67.5	2.58	8.74	12.52	44	1.08	0.078	
STD DS10	Standard	15.43	161.02	150.84	363.5	1808	77.4	13.2	850	2.74	45.6	2.8	74.2	7.7	63.6	2.81	9.03	12.76	43	1.06	0.071	
STD DS10	Standard	15.40	165.38	145.52	370.3	1829	77.9	13.7	882	2.76	45.6	2.6	69.8	7.3	64.1	2.93	8.46	12.41	43	1.06	0.075	
STD DS10	Standard	15.76	151.87	155.16	365.1	1794	76.4	13.1	883	2.78	45.0	2.9	69.3	8.5	72.7	2.44	9.18	12.24	43	1.09	0.074	
STD DS10	Standard	15.44	162.21	152.12	370.1	1823	79.4	13.7	917	2.81	46.2	3.0	80.4	8.6	73.1	2.69	8.78	13.22	43	1.08	0.077	
STD DS10	Standard	15.13	145.48	151.51	354.8	1911	71.8	13.3	863	2.73	43.9	2.8	62.4	7.8	68.1	2.45	9.06	12.40	42	1.06	0.074	
STD DS10	Standard	15.38	166.81	155.72	367.5	1802	77.9	13.4	902	2.75	44.2	3.0	72.5	8.8	68.4	2.55	9.90	13.35	42	1.06	0.072	
STD OXC129	Standard	1.23	27.16	6.19	37.7	17	78.0	20.8	402	3.01	0.7	0.7	187.4	1.8	179.9	0.02	0.03	<0.02	53	0.65	0.098	



Bureau Veritas Commodities Canada Ltd.  
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**Client:** Golden Predator Mining Corp.  
510 - 580 Hornby Street  
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**Project:** None Given  
**Report Date:** September 08, 2016

**Page:** 1 of 2 **Part:** 2 of 3

# QUALITY CONTROL REPORT

WHI16000179.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
Pulp Duplicates																					
AA068727	Soil	13.6	22.9	0.76	35.6	0.002	<1	1.89	0.003	0.04	<0.1	2.6	0.04	<0.02	21	0.2	0.04	4.6	0.63	<0.1	0.18
REP AA068727	QC	13.2	23.0	0.76	36.8	0.002	<1	1.91	0.003	0.04	<0.1	2.7	0.03	<0.02	23	0.2	0.03	4.6	0.64	<0.1	0.19
AA068763	Soil	17.5	23.1	0.73	23.6	0.002	1	1.70	0.004	0.03	0.2	2.7	0.03	0.03	20	0.4	0.06	4.3	0.89	<0.1	0.14
REP AA068763	QC	22.5	24.1	0.75	24.1	0.003	2	1.74	0.004	0.03	0.2	2.9	0.03	0.03	20	0.5	0.06	4.6	1.09	<0.1	0.15
AA068799	Soil	24.1	34.7	1.30	17.9	0.003	<1	2.52	0.005	0.03	<0.1	3.4	0.04	<0.02	28	0.3	0.14	6.7	1.75	<0.1	0.09
REP AA068799	QC	25.3	32.6	1.32	17.5	0.003	1	2.47	0.005	0.03	<0.1	3.6	0.03	<0.02	39	0.4	0.18	6.9	1.74	<0.1	0.07
AA068835	Soil	18.0	24.9	0.80	37.6	0.002	<1	1.95	0.008	0.04	<0.1	2.7	0.04	0.05	22	0.3	0.05	4.5	0.68	<0.1	0.12
REP AA068835	QC	17.4	24.6	0.79	39.0	0.001	<1	1.95	0.008	0.04	<0.1	2.9	0.05	0.05	25	<0.1	0.05	4.2	0.66	<0.1	0.15
AA068871	Soil	17.5	19.8	0.69	36.8	0.002	<1	1.92	0.002	0.05	<0.1	1.4	0.07	0.04	28	<0.1	0.08	4.5	0.99	<0.1	0.14
REP AA068871	QC	17.3	19.7	0.67	35.1	0.002	<1	1.90	0.002	0.05	<0.1	1.5	0.07	0.04	20	<0.1	0.05	4.5	0.98	<0.1	0.19
AA068907	Soil	17.6	30.0	0.76	34.8	0.006	<1	2.03	0.002	0.03	<0.1	1.4	0.06	0.03	33	0.2	<0.02	6.0	0.95	<0.1	0.09
REP AA068907	QC	18.8	31.0	0.76	35.7	0.006	1	2.04	0.002	0.03	<0.1	1.5	0.06	0.03	34	0.1	0.08	6.1	1.03	<0.1	0.07
AA068944	Soil	16.9	28.6	0.79	41.0	0.007	<1	2.00	0.008	0.05	<0.1	1.8	0.06	0.04	32	0.6	0.13	7.1	3.27	<0.1	0.08
REP AA068944	QC	15.8	28.2	0.78	39.3	0.007	<1	2.01	0.007	0.04	<0.1	1.8	0.06	0.04	22	0.5	0.12	6.9	3.03	<0.1	0.08
AA068979	Soil	30.0	31.3	0.98	27.4	0.002	<1	2.16	0.006	0.04	<0.1	2.9	0.03	<0.02	27	0.3	0.07	5.3	0.84	<0.1	0.23
REP AA068979	QC	27.9	30.4	0.96	27.8	0.002	<1	2.14	0.005	0.04	<0.1	3.5	0.03	<0.02	22	0.3	<0.02	5.9	0.80	<0.1	0.19
Reference Materials																					
STD DS10	Standard	18.5	59.2	0.78	335.0	0.083	7	1.09	0.075	0.34	3.1	2.9	5.04	0.29	284	2.2	4.79	4.4	2.61	<0.1	0.06
STD DS10	Standard	17.9	54.7	0.80	346.5	0.081	7	1.09	0.076	0.35	3.3	3.0	5.10	0.29	271	2.3	4.96	4.2	2.58	<0.1	0.04
STD DS10	Standard	18.3	55.9	0.79	363.5	0.080	9	1.05	0.071	0.34	3.2	2.8	5.19	0.29	330	2.0	5.09	4.5	2.63	<0.1	0.05
STD DS10	Standard	17.4	57.1	0.78	353.6	0.083	8	1.06	0.071	0.34	3.4	2.9	5.33	0.30	293	2.5	5.11	4.6	2.65	<0.1	0.07
STD DS10	Standard	18.3	55.8	0.77	353.2	0.081	7	1.05	0.072	0.34	3.1	2.7	5.38	0.27	307	2.2	5.24	4.3	2.80	<0.1	0.06
STD DS10	Standard	18.1	59.7	0.79	324.9	0.086	7	1.11	0.079	0.35	3.2	2.8	5.15	0.27	305	2.5	4.97	4.5	2.66	<0.1	0.05
STD DS10	Standard	18.9	56.8	0.79	371.7	0.085	8	1.10	0.077	0.35	3.2	3.1	5.10	0.27	287	2.3	5.13	4.6	2.66	<0.1	0.06
STD DS10	Standard	20.6	58.2	0.79	334.0	0.087	7	1.08	0.076	0.34	3.2	3.1	5.01	0.28	301	2.2	4.75	4.3	2.58	<0.1	0.06
STD DS10	Standard	17.6	54.7	0.77	347.9	0.079	6	1.07	0.073	0.34	3.2	3.0	5.14	0.27	271	2.4	4.77	4.2	2.63	<0.1	0.04
STD DS10	Standard	20.2	59.4	0.78	344.8	0.091	8	1.06	0.073	0.34	3.2	2.7	5.08	0.28	312	2.1	4.82	4.3	2.61	<0.1	0.07
STD OXC129	Standard	12.3	52.7	1.54	49.6	0.384	2	1.59	0.597	0.38	<0.1	0.6	0.03	<0.02	<5	<0.1	<0.02	5.2	0.16	<0.1	0.28



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Project: None Given  
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# QUALITY CONTROL REPORT

WHI16000179.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates														
AA068727	Soil	<0.02	2.4	0.1	<0.05	11.2	8.81	26.8	0.02	1	0.5	55.4	<10	<2
REP AA068727	QC	0.06	2.4	0.2	<0.05	11.3	8.68	26.0	<0.02	<1	0.5	57.2	<10	<2
AA068763	Soil	0.11	2.6	0.1	<0.05	5.8	7.87	30.7	0.03	<1	0.7	51.7	<10	<2
REP AA068763	QC	0.11	3.1	0.1	<0.05	5.0	8.33	37.7	0.03	<1	0.4	54.5	<10	<2
AA068799	Soil	0.08	3.1	1.5	<0.05	4.4	7.15	42.2	0.03	<1	0.5	88.7	<10	<2
REP AA068799	QC	0.06	3.1	1.7	<0.05	3.7	7.04	44.0	0.02	<1	0.7	94.0	<10	<2
AA068835	Soil	<0.02	2.1	0.9	<0.05	12.4	12.42	34.7	0.03	<1	0.7	73.1	<10	<2
REP AA068835	QC	0.03	2.0	0.8	<0.05	12.0	12.36	33.4	0.03	<1	0.8	73.6	<10	<2
AA068871	Soil	0.13	6.1	0.3	<0.05	5.3	3.34	33.0	<0.02	<1	0.4	40.4	<10	<2
REP AA068871	QC	0.13	6.0	0.2	<0.05	5.9	3.27	32.2	<0.02	<1	0.7	41.3	<10	<2
AA068907	Soil	0.27	4.1	0.9	<0.05	3.7	3.10	32.6	<0.02	<1	0.2	73.2	<10	<2
REP AA068907	QC	0.28	4.1	0.8	<0.05	3.3	2.96	34.2	0.03	<1	0.3	72.0	<10	<2
AA068944	Soil	0.17	6.9	0.4	<0.05	2.2	2.61	33.0	0.03	<1	0.2	58.0	<10	<2
REP AA068944	QC	0.17	6.6	0.3	<0.05	2.9	2.79	30.6	0.02	<1	0.4	57.6	<10	<2
AA068979	Soil	<0.02	2.1	0.3	<0.05	13.7	8.73	53.2	0.03	<1	0.5	83.6	<10	<2
REP AA068979	QC	0.03	2.1	0.3	<0.05	13.7	8.62	50.6	<0.02	3	0.4	77.4	<10	<2
Reference Materials														
STD DS10	Standard	1.59	28.1	1.7	<0.05	2.5	7.87	34.9	0.26	52	0.6	19.5	92	189
STD DS10	Standard	1.62	29.0	1.7	<0.05	3.1	7.99	36.7	0.22	55	0.4	20.6	104	195
STD DS10	Standard	1.45	27.8	1.8	<0.05	2.5	7.98	36.8	0.24	55	0.5	19.8	105	189
STD DS10	Standard	1.58	28.5	1.6	<0.05	2.4	7.89	35.9	0.24	49	0.7	20.9	109	204
STD DS10	Standard	1.57	29.3	1.7	<0.05	2.7	8.15	35.7	0.25	52	0.8	19.2	99	182
STD DS10	Standard	1.56	29.4	1.7	<0.05	2.5	8.01	35.4	0.26	46	0.6	18.7	103	178
STD DS10	Standard	1.71	29.1	1.6	<0.05	2.8	8.28	38.4	0.25	50	0.6	22.0	107	193
STD DS10	Standard	1.52	28.4	1.7	<0.05	2.7	8.33	38.4	0.26	49	0.7	19.7	102	188
STD DS10	Standard	1.45	28.2	1.4	<0.05	2.4	7.65	35.8	0.19	51	0.3	19.8	112	187
STD DS10	Standard	1.68	27.7	1.7	<0.05	2.6	8.25	37.8	0.27	53	0.5	19.6	107	182
STD OXC129	Standard	1.39	15.5	0.8	<0.05	20.8	4.52	22.5	<0.02	<1	0.7	2.1	<10	<2



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**Project:** None Given  
**Report Date:** September 08, 2016

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# QUALITY CONTROL REPORT

WHI16000179.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
STD OXC129	Standard	1.24	26.69	6.26	40.5	19	78.5	20.9	422	3.07	0.3	0.7	199.8	1.9	184.7	0.03	0.03	<0.02	53	0.69	0.101
STD OXC129	Standard	1.31	26.15	6.13	38.5	17	78.4	19.4	397	3.02	0.4	0.7	192.8	1.9	177.3	0.03	0.03	<0.02	53	0.64	0.101
STD OXC129	Standard	1.28	26.77	6.30	39.1	21	79.5	20.8	415	3.11	0.8	0.7	194.6	2.0	188.0	0.04	0.03	<0.02	54	0.67	0.099
STD OXC129	Standard	1.28	28.80	6.32	38.8	16	82.3	21.5	422	3.00	0.7	0.6	192.7	1.8	181.3	0.02	0.03	<0.02	50	0.65	0.095
STD OXC129	Standard	1.30	28.54	6.54	37.9	21	82.0	21.7	408	2.98	0.3	0.7	200.4	1.8	184.7	0.02	0.03	<0.02	50	0.65	0.094
STD OXC129	Standard	1.25	26.92	6.20	37.8	19	78.0	20.0	399	3.01	0.1	0.7	184.3	1.9	191.8	0.03	0.03	<0.02	51	0.74	0.098
STD OXC129	Standard	1.30	30.59	7.07	43.7	18	86.3	21.4	425	3.06	0.6	0.8	191.5	2.1	189.3	0.03	0.04	<0.02	51	0.68	0.101
STD OXC129	Standard	1.25	26.52	6.41	40.1	25	77.6	20.4	409	3.00	0.6	0.7	190.1	1.9	181.0	0.03	0.04	<0.02	50	0.66	0.096
STD OXC129	Standard	1.31	29.70	6.87	43.2	18	84.9	21.4	411	2.99	0.8	0.8	194.8	2.2	176.4	0.04	0.04	<0.02	50	0.66	0.103
STD DS10 Expected		15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	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	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665	0.102
BLK	Blank	<0.01	<0.01	<0.01	<0.1	2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.01	0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	0.01	0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.02	<0.01	0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	3	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	3	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	8	<0.1	<0.1	1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.02	<0.01	<0.1	9	<0.1	<0.1	2	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



# QUALITY CONTROL REPORT

WHI16000179.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
STD OXC129	Standard	12.5	52.3	1.51	46.3	0.389	2	1.62	0.608	0.39	<0.1	0.8	0.03	<0.02	<5	<0.1	<0.02	5.1	0.15	<0.1	0.26
STD OXC129	Standard	11.9	49.7	1.49	45.9	0.382	<1	1.52	0.573	0.37	<0.1	1.0	0.03	<0.02	<5	<0.1	<0.02	5.3	0.14	<0.1	0.26
STD OXC129	Standard	12.2	52.1	1.51	48.8	0.408	2	1.58	0.592	0.38	<0.1	0.9	0.03	<0.02	<5	<0.1	<0.02	5.4	0.16	0.1	0.26
STD OXC129	Standard	13.5	54.1	1.52	51.8	0.407	1	1.53	0.606	0.38	<0.1	0.6	0.03	<0.02	<5	<0.1	<0.02	5.5	0.16	<0.1	0.26
STD OXC129	Standard	13.0	54.4	1.51	50.0	0.410	1	1.55	0.614	0.40	<0.1	0.6	0.04	<0.02	<5	<0.1	<0.02	5.3	0.16	<0.1	0.29
STD OXC129	Standard	12.0	52.0	1.54	49.1	0.404	1	1.65	0.616	0.39	<0.1	0.8	0.03	<0.02	<5	<0.1	<0.02	5.7	0.15	<0.1	0.24
STD OXC129	Standard	14.1	56.1	1.52	50.5	0.401	1	1.62	0.610	0.39	<0.1	0.9	0.03	<0.02	<5	<0.1	<0.02	5.7	0.16	<0.1	0.30
STD OXC129	Standard	12.5	51.5	1.52	47.1	0.395	<1	1.58	0.610	0.39	<0.1	0.9	0.04	<0.02	<5	<0.1	<0.02	5.5	0.16	<0.1	0.32
STD OXC129	Standard	14.4	56.4	1.52	49.8	0.454	1	1.63	0.615	0.40	<0.1	1.1	0.03	<0.02	<5	<0.1	<0.02	5.3	0.16	0.1	0.31
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0259	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	2.63	0.08	0.06
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6	0.16		0.24
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	1	<0.01	<0.001	<0.01	<0.1	0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



# QUALITY CONTROL REPORT

WHI16000179.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
STD OXC129	Standard	1.33	15.2	0.7	<0.05	20.7	4.68	22.6	<0.02	<1	0.6	2.3	<10	<2
STD OXC129	Standard	1.22	14.4	0.6	<0.05	20.8	4.42	22.5	<0.02	<1	1.0	2.2	<10	<2
STD OXC129	Standard	1.25	14.9	0.7	<0.05	21.8	4.64	22.4	<0.02	<1	1.2	2.4	<10	<2
STD OXC129	Standard	1.39	15.9	0.7	<0.05	19.8	4.65	22.9	<0.02	<1	0.9	2.0	<10	<2
STD OXC129	Standard	1.24	15.7	0.7	<0.05	20.1	4.76	22.6	<0.02	<1	0.9	2.1	<10	<2
STD OXC129	Standard	1.32	15.1	0.7	<0.05	21.3	4.77	22.4	<0.02	<1	0.8	1.9	<10	<2
STD OXC129	Standard	1.24	15.7	0.7	<0.05	22.8	4.97	24.3	<0.02	<1	0.9	2.3	<10	<2
STD OXC129	Standard	1.73	15.4	0.7	<0.05	22.0	4.58	22.2	<0.02	<1	0.8	2.2	14	<2
STD OXC129	Standard	1.67	15.3	0.7	<0.05	23.4	4.90	24.2	<0.02	<1	0.7	2.2	<10	<2
STD DS10 Expected		1.62	27.7	1.6		2.7	7.77	37	0.23	50	0.63	19.4	110	191
STD OXC129 Expected		1.4		0.7		21	4.7	23.7			0.8	2.22		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

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PHONE (604) 253-3158

**Client:** **Golden Predator Mining Corp.**  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

Submitted By: M. Burke  
Receiving Lab: Canada-Whitehorse  
Received: August 16, 2016  
Report Date: September 12, 2016  
Page: 1 of 12

# CERTIFICATE OF ANALYSIS

WHI16000180.1

## CLIENT JOB INFORMATION

Project: None Given  
Shipment ID:  
P.O. Number: NA-16176  
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: Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6  
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
AQ251_EXT	316	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
SHP01	320	Per sample shipping charges for branch shipments			VAN

## ADDITIONAL COMMENTS

Insufficient material to recheck high Sn values in samples AA070531, AA070533 and AA069580.



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.

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**Client:** Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

**Project:** None Given  
**Report Date:** September 12, 2016

**Page:** 2 of 12

**Part:** 1 of 3

# CERTIFICATE OF ANALYSIS

# WHI16000180.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
AA069501	Soil	1.00	80.63	60.10	95.3	98	42.0	27.6	603	4.33	17.2	3.6	0.6	14.2	25.0	0.06	0.64	0.67	19	0.05	0.077
AA069502	Soil	0.84	101.66	86.55	90.2	192	46.9	78.6	1757	3.78	20.9	3.9	1.2	15.1	11.9	0.12	0.81	0.78	16	0.07	0.053
AA069503	Soil	0.61	63.84	58.28	86.3	81	39.6	40.3	1221	3.73	15.2	2.5	1.2	13.4	13.6	0.07	0.51	0.50	16	0.10	0.064
AA069504	Soil	0.55	60.45	39.72	101.7	83	47.4	36.0	963	4.38	10.9	2.3	0.5	15.6	10.9	0.06	0.45	0.45	17	0.04	0.044
AA069505	Soil	0.70	74.35	60.83	102.5	100	42.9	40.0	1471	4.37	13.1	3.1	1.6	13.8	9.3	0.07	0.47	0.72	19	0.06	0.065
AA069506	Soil	1.06	56.36	51.47	91.3	107	37.7	11.9	355	3.78	10.9	2.5	1.0	7.5	12.7	0.06	0.64	0.67	23	0.07	0.079
AA069507	Soil	0.88	80.99	56.81	104.8	154	45.8	37.0	677	4.47	17.4	5.2	1.3	14.9	11.4	0.06	0.75	0.68	21	0.06	0.067
AA069508	Soil	0.77	62.03	62.67	111.8	127	42.4	35.8	899	4.31	13.8	2.8	0.9	13.3	13.1	0.10	0.55	0.67	19	0.09	0.070
AA069509	Soil	0.32	50.73	39.55	95.2	63	38.1	23.0	927	4.01	8.0	1.7	0.7	14.7	12.9	0.06	0.32	0.59	14	0.12	0.047
AA069510	Soil	0.45	53.80	63.64	98.3	68	40.7	31.4	937	4.07	13.9	2.5	1.4	18.2	14.5	0.07	0.75	0.69	13	0.13	0.044
AA069511	Soil	0.49	44.98	63.19	99.5	79	37.9	23.4	793	4.01	12.4	2.2	1.1	18.0	14.1	0.10	0.77	0.61	12	0.14	0.048
AA069512	Soil	0.33	42.73	36.83	96.6	90	39.8	22.0	658	4.04	7.8	1.8	1.3	18.3	22.0	0.09	0.92	0.54	9	0.21	0.063
AA069513	Soil	0.44	46.08	48.32	101.8	148	39.4	24.1	809	4.30	8.7	2.5	1.7	19.4	22.7	0.11	1.19	0.56	10	0.21	0.063
AA069514	Soil	0.50	42.59	44.77	122.1	166	44.9	22.5	962	4.96	6.4	2.9	0.7	18.2	13.2	0.16	0.99	0.51	14	0.08	0.059
AA069515	Soil	0.47	36.99	42.25	85.1	132	35.4	22.5	1093	4.12	5.7	2.4	1.6	17.9	13.5	0.18	0.87	0.44	12	0.12	0.067
AA069516	Soil	0.51	38.59	38.16	88.9	172	35.8	18.7	731	4.03	8.2	2.3	2.9	15.2	18.1	0.15	1.85	0.43	14	0.16	0.066
AA069517	Soil	1.28	88.99	54.79	126.0	214	80.1	59.3	1341	4.89	35.6	4.2	17.5	21.6	33.2	0.25	4.06	0.46	11	0.28	0.086
AA069518	Soil	0.47	39.65	32.88	90.9	224	37.8	19.2	426	3.22	208.4	1.9	34.3	16.5	23.4	0.21	2.46	0.37	11	0.34	0.063
AA069519	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.
AA069520	Soil	0.38	20.82	32.94	49.3	441	23.9	9.3	417	2.58	249.3	0.9	107.3	7.7	22.6	0.09	3.26	0.31	6	0.22	0.053
AA069521	Soil	0.36	35.66	29.82	78.8	251	31.5	13.4	321	3.15	75.5	1.5	24.5	10.3	22.9	0.10	2.29	0.38	9	0.35	0.062
AA069522	Soil	0.36	28.69	27.25	61.7	216	26.5	11.5	310	2.88	59.9	1.3	20.6	8.0	17.9	0.04	2.03	0.36	7	0.25	0.058
AA069523	Soil	0.34	35.78	31.59	79.9	171	31.2	13.8	442	3.17	155.2	1.2	33.3	10.1	17.7	0.08	1.60	0.36	8	0.14	0.039
AA069524	Soil	0.32	38.82	34.60	77.7	82	36.0	20.9	556	3.31	54.3	1.1	22.4	13.9	14.0	0.04	0.81	0.41	10	0.09	0.037
AA069525	Soil	0.75	75.56	35.18	95.0	123	39.5	43.8	1372	4.66	79.8	1.8	9.1	3.9	4.6	0.09	0.82	0.62	20	0.02	0.106
AA069526	Soil	0.71	83.11	37.60	97.4	118	42.7	51.3	1459	4.78	84.4	1.9	9.4	4.3	4.8	0.09	0.89	0.64	20	0.02	0.093
AA069527	Soil	0.61	53.86	27.39	109.0	149	44.7	26.5	1010	5.33	1299.0	2.4	376.6	6.4	7.8	0.08	1.43	0.75	17	0.02	0.082
AA069528	Soil	1.05	115.95	87.82	164.9	90	63.1	89.0	1200	6.05	85.6	5.2	19.0	9.1	4.5	0.18	2.64	0.56	16	0.04	0.070
AA069529	Soil	0.78	41.49	61.55	88.1	178	29.3	21.0	992	4.04	149.9	1.5	45.7	7.9	6.2	0.14	1.29	0.44	15	0.06	0.065
AA069530	Soil	0.80	52.59	29.32	104.6	77	48.6	23.7	642	4.51	96.4	2.1	24.1	10.7	9.5	0.10	0.76	0.40	17	0.07	0.050



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**Project:** None Given  
**Report Date:** September 12, 2016

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**Part:** 2 of 3

# CERTIFICATE OF ANALYSIS

# WHI16000180.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA069501	Soil	35.0	33.1	0.87	25.3	0.005	<1	2.19	0.009	0.05	<0.1	2.0	0.06	0.03	17	0.4	0.06	5.9	1.78	<0.1	0.06
AA069502	Soil	20.1	27.4	0.75	40.4	0.005	<1	1.81	0.009	0.03	<0.1	1.9	0.06	<0.02	37	<0.1	0.09	4.9	1.20	<0.1	0.04
AA069503	Soil	21.6	26.5	0.77	28.8	0.004	<1	1.89	0.008	0.03	<0.1	1.8	0.05	<0.02	18	<0.1	0.05	4.9	1.10	<0.1	0.03
AA069504	Soil	22.1	33.9	0.98	19.3	0.003	<1	2.24	0.004	0.03	<0.1	2.0	0.04	<0.02	24	<0.1	0.05	6.1	0.71	<0.1	0.07
AA069505	Soil	26.7	33.0	0.89	26.9	0.007	<1	2.16	0.006	0.05	0.2	2.6	0.05	0.02	52	<0.1	0.11	6.1	1.09	<0.1	0.04
AA069506	Soil	25.2	32.8	0.86	29.4	0.021	1	2.04	0.009	0.07	0.2	2.5	0.08	0.04	38	0.3	0.05	5.8	1.76	0.2	0.05
AA069507	Soil	26.8	34.6	0.97	21.9	0.007	<1	2.30	0.004	0.04	<0.1	2.4	0.05	<0.02	26	0.2	0.04	6.1	1.51	<0.1	0.05
AA069508	Soil	21.1	33.5	0.95	27.3	0.008	<1	2.27	0.006	0.06	0.1	2.2	0.06	<0.02	31	0.2	0.04	6.0	1.35	<0.1	0.04
AA069509	Soil	18.3	28.6	0.83	29.7	0.002	<1	2.02	0.002	0.02	<0.1	1.8	0.03	<0.02	12	<0.1	0.06	5.6	0.78	<0.1	0.05
AA069510	Soil	22.4	25.7	0.78	26.8	0.003	<1	1.91	0.004	0.03	<0.1	2.0	0.04	<0.02	14	<0.1	0.08	5.2	0.75	<0.1	0.05
AA069511	Soil	22.7	24.5	0.76	22.3	0.002	<1	1.78	0.002	0.03	<0.1	2.1	0.03	<0.02	15	<0.1	0.05	4.8	0.46	<0.1	0.09
AA069512	Soil	20.8	21.4	0.68	22.7	0.002	<1	1.60	0.002	0.03	<0.1	2.4	0.02	<0.02	20	<0.1	0.03	4.1	0.45	0.1	0.14
AA069513	Soil	15.7	20.9	0.68	24.3	0.003	<1	1.64	0.003	0.03	<0.1	3.5	0.03	<0.02	30	<0.1	<0.02	4.2	0.71	<0.1	0.12
AA069514	Soil	14.8	25.0	0.82	28.7	0.004	3	1.91	0.005	0.04	0.1	3.6	0.06	0.02	34	0.3	0.02	5.1	0.83	<0.1	0.11
AA069515	Soil	18.6	20.1	0.67	32.2	0.004	<1	1.62	0.005	0.03	<0.1	3.6	0.05	<0.02	35	0.3	<0.02	4.4	0.78	<0.1	0.07
AA069516	Soil	15.9	21.0	0.65	38.0	0.005	1	1.67	0.007	0.04	<0.1	3.5	0.06	0.03	44	0.6	<0.02	4.4	1.13	<0.1	0.06
AA069517	Soil	14.4	20.6	0.61	45.7	0.001	<1	1.77	0.010	0.03	<0.1	3.4	0.07	0.06	30	0.4	0.08	3.6	0.80	<0.1	0.15
AA069518	Soil	29.3	13.7	0.49	29.8	0.002	2	1.29	0.004	0.05	<0.1	2.5	0.05	0.03	15	0.2	0.03	3.1	1.30	<0.1	0.08
AA069519	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.
AA069520	Soil	19.8	6.3	0.13	44.6	<0.001	1	0.68	0.004	0.05	0.9	2.4	0.05	0.04	45	0.2	0.04	1.4	1.89	<0.1	0.06
AA069521	Soil	18.7	14.1	0.33	52.4	0.001	2	1.13	0.006	0.09	<0.1	2.0	0.06	0.05	19	<0.1	<0.02	2.8	2.33	<0.1	0.09
AA069522	Soil	16.4	11.3	0.23	48.5	<0.001	<1	0.97	0.004	0.06	<0.1	2.0	0.05	0.04	26	0.2	0.04	2.2	1.57	<0.1	0.14
AA069523	Soil	27.3	15.6	0.41	51.9	0.001	1	1.38	0.006	0.07	<0.1	1.8	0.05	0.02	18	0.2	0.04	3.5	1.75	<0.1	0.05
AA069524	Soil	33.3	17.4	0.62	27.7	0.001	<1	1.46	0.002	0.04	<0.1	1.7	0.03	<0.02	10	0.1	0.07	3.6	1.17	<0.1	0.03
AA069525	Soil	27.1	35.2	0.82	58.9	0.005	1	2.12	0.003	0.04	<0.1	2.0	0.07	0.05	41	0.2	0.08	6.7	2.02	<0.1	0.16
AA069526	Soil	27.2	35.9	0.84	62.4	0.005	1	2.17	0.003	0.04	<0.1	1.9	0.06	0.05	36	0.3	0.08	6.6	2.21	<0.1	0.12
AA069527	Soil	31.9	31.9	0.74	92.0	0.003	<1	1.90	0.004	0.05	<0.1	2.6	0.05	0.02	29	0.2	0.11	5.9	2.60	<0.1	0.09
AA069528	Soil	30.4	35.4	0.92	41.9	0.001	<1	2.62	0.003	0.04	<0.1	2.7	0.07	0.03	52	0.3	0.09	6.4	3.43	<0.1	0.18
AA069529	Soil	21.1	22.4	0.57	39.6	0.002	1	1.84	0.003	0.05	<0.1	1.5	0.05	0.04	61	0.2	0.05	5.2	1.49	<0.1	0.05
AA069530	Soil	27.6	32.8	1.06	25.4	0.003	<1	2.35	0.004	0.04	<0.1	2.4	0.03	<0.02	8	0.1	0.07	6.3	1.36	<0.1	0.05



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**Project:** None Given  
**Report Date:** September 12, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA069501	Soil	0.14	4.6	0.7	<0.05	2.5	5.10	56.2	0.03	<1	0.4	78.8	<10	<2
AA069502	Soil	0.07	2.5	0.3	<0.05	3.5	6.35	34.7	<0.02	<1	0.5	70.1	<10	<2
AA069503	Soil	0.07	2.7	0.2	<0.05	2.2	5.51	35.8	<0.02	<1	0.5	64.6	<10	<2
AA069504	Soil	0.04	2.0	0.1	<0.05	5.3	5.02	36.7	<0.02	<1	0.6	84.6	<10	<2
AA069505	Soil	0.12	3.8	0.3	<0.05	3.4	8.54	46.5	0.02	<1	0.3	82.1	<10	<2
AA069506	Soil	0.34	7.6	0.6	<0.05	2.0	6.82	45.2	0.04	<1	0.3	62.1	<10	<2
AA069507	Soil	0.14	4.1	0.3	<0.05	3.0	7.92	43.4	0.03	<1	0.4	86.3	<10	<2
AA069508	Soil	0.18	5.4	0.2	<0.05	2.1	5.56	35.7	0.02	<1	0.5	79.0	<10	<2
AA069509	Soil	0.06	2.7	0.1	<0.05	2.5	4.55	31.1	<0.02	<1	0.5	78.4	<10	<2
AA069510	Soil	0.04	2.2	0.2	<0.05	4.3	5.20	38.6	<0.02	<1	0.6	68.8	<10	<2
AA069511	Soil	0.04	2.1	0.1	<0.05	5.0	6.72	40.9	0.02	<1	0.4	63.6	<10	<2
AA069512	Soil	0.04	1.8	0.1	<0.05	10.0	8.84	40.2	<0.02	<1	0.4	51.5	<10	<2
AA069513	Soil	0.06	2.5	0.2	<0.05	7.6	12.87	30.0	0.03	<1	0.7	50.2	<10	<2
AA069514	Soil	0.08	3.4	0.2	<0.05	6.3	12.85	27.9	0.05	<1	0.3	67.4	<10	<2
AA069515	Soil	0.08	3.2	0.2	<0.05	5.3	14.50	37.1	0.04	<1	0.5	55.6	<10	<2
AA069516	Soil	0.13	4.6	0.4	<0.05	3.6	15.74	30.2	0.05	<1	0.5	46.9	<10	<2
AA069517	Soil	0.03	2.3	0.2	<0.05	11.6	14.43	28.7	0.03	<1	1.0	64.2	<10	<2
AA069518	Soil	0.06	3.8	0.3	<0.05	6.0	7.96	54.0	0.04	<1	0.7	33.7	<10	<2
AA069519	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.
AA069520	Soil	0.09	4.6	0.3	<0.05	2.6	13.49	40.2	0.02	<1	0.3	7.3	<10	<2
AA069521	Soil	0.10	7.5	0.8	<0.05	4.2	4.66	35.9	0.03	<1	0.3	16.4	<10	<2
AA069522	Soil	0.05	5.3	0.5	<0.05	5.3	7.43	31.4	0.02	<1	0.5	11.8	<10	<2
AA069523	Soil	0.06	5.3	0.2	<0.05	2.8	4.64	49.3	<0.02	<1	0.4	25.2	<10	<2
AA069524	Soil	0.02	3.3	0.3	<0.05	4.6	3.51	56.4	<0.02	<1	0.5	38.0	<10	<2
AA069525	Soil	0.21	5.9	0.2	<0.05	4.1	4.16	48.0	0.03	<1	0.4	60.3	<10	<2
AA069526	Soil	0.22	5.6	0.2	<0.05	4.3	4.14	49.7	0.03	<1	0.6	63.1	<10	3
AA069527	Soil	0.12	5.7	0.2	<0.05	3.2	3.57	56.6	0.03	<1	0.4	52.8	<10	3
AA069528	Soil	0.07	3.9	0.2	<0.05	6.8	4.34	53.9	0.04	<1	0.9	76.6	<10	<2
AA069529	Soil	0.25	5.0	0.2	<0.05	2.2	2.13	38.7	0.02	<1	0.3	42.0	<10	<2
AA069530	Soil	0.05	2.9	0.2	<0.05	3.0	3.87	48.9	0.02	<1	0.5	77.4	<10	3



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**Project:** None Given  
**Report Date:** September 12, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000180.1

Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
AA069531	Soil	0.99	51.60	33.18	95.7	139	41.9	20.9	686	4.16	82.5	2.0	8.7	4.9	6.8	0.09	0.81	0.41	16	0.04	0.069
AA069532	Soil	0.57	61.99	34.35	104.5	69	45.4	23.9	892	4.80	67.1	2.8	30.5	4.9	4.3	0.07	0.70	0.44	18	0.02	0.081
AA069533	Soil	0.40	49.29	29.96	67.0	63	28.7	13.8	489	3.03	27.3	2.1	4.8	2.8	5.3	0.05	0.41	0.31	14	0.04	0.055
AA069534	Soil	0.46	50.75	28.89	101.7	104	45.1	13.9	641	5.01	24.5	2.1	2.5	5.7	4.1	0.05	0.66	0.41	19	0.01	0.092
AA069535	Soil	0.80	39.17	34.44	78.1	64	34.9	15.0	794	4.01	47.1	1.1	6.9	3.7	4.7	0.06	0.61	0.41	21	0.02	0.094
AA069536	Soil	1.02	95.54	80.18	105.1	103	55.6	38.6	2856	4.84	177.7	2.4	49.6	5.5	6.7	0.14	0.73	0.62	18	0.11	0.060
AA069537	Soil	1.07	85.19	90.24	114.7	106	53.3	40.5	1897	5.04	26.4	1.9	2.4	8.6	4.0	0.08	0.71	0.76	19	0.03	0.028
AA069538	Soil	1.42	90.54	127.74	105.0	205	52.7	44.3	3525	4.86	397.5	2.3	126.7	3.7	8.3	0.12	1.07	0.82	17	0.14	0.136
AA069539	Soil	0.63	25.95	28.76	36.9	62	15.8	13.0	1175	1.82	29.8	0.6	5.7	0.6	4.5	0.05	0.19	0.22	13	0.04	0.068
AA069540	Soil	0.45	53.62	39.54	87.2	59	45.4	22.7	1245	3.98	37.5	1.1	8.6	7.9	6.0	0.05	0.38	0.43	15	0.10	0.049
AA069851	Soil	1.38	86.76	62.37	127.9	75	60.6	29.3	1169	5.45	16.2	2.0	2.7	12.8	17.1	0.16	1.03	0.48	14	0.33	0.140
AA069852	Soil	0.54	86.59	58.05	137.3	166	61.4	48.9	954	4.95	46.4	1.1	6.6	17.5	33.9	0.16	2.09	0.74	16	0.30	0.045
AA069853	Soil	0.98	51.69	22.81	90.2	110	167.0	32.0	724	4.76	38.4	1.7	5.7	10.5	206.2	0.16	0.72	0.32	40	1.91	0.119
AA069854	Soil	0.42	54.30	37.18	92.8	154	49.4	19.6	565	4.24	47.1	2.6	8.3	11.8	39.4	0.11	1.11	0.51	15	0.37	0.063
AA069855	Soil	0.54	84.93	57.20	101.3	233	46.5	28.2	779	4.55	26.0	2.0	9.2	14.9	28.1	0.13	1.14	0.68	11	0.38	0.064
AA069856	Soil	0.70	64.89	42.97	95.6	91	44.9	35.5	909	4.20	18.2	2.5	3.6	14.7	12.7	0.06	1.45	0.51	14	0.09	0.062
AA069857	Soil	0.49	169.24	46.68	88.7	90	36.4	55.6	1884	3.63	13.7	1.1	1.8	17.3	5.1	0.08	0.29	1.42	14	0.03	0.041
AA069858	Soil	0.24	133.29	57.27	123.6	91	45.1	37.0	1426	4.85	12.1	1.8	2.1	22.1	18.8	0.09	0.32	1.25	17	0.17	0.050
AA069859	Soil	1.11	59.40	78.36	107.0	120	43.8	35.4	1215	4.11	29.6	3.5	2.8	12.3	15.7	0.14	1.01	0.82	15	0.15	0.062
AA069860	Soil	0.42	38.47	44.73	99.9	160	38.9	19.7	807	4.12	39.9	1.4	14.0	18.6	25.1	0.12	5.45	0.54	7	0.25	0.057
AA069861	Soil	0.34	39.07	42.65	102.6	162	38.6	20.1	776	4.10	41.8	1.4	12.2	18.2	23.5	0.10	5.58	0.52	7	0.25	0.060
AA069862	Soil	0.42	56.78	52.42	115.9	196	50.3	30.3	912	4.65	36.3	1.9	6.9	24.5	54.6	0.07	4.16	0.62	9	0.81	0.047
AA069863	Soil	0.46	44.33	42.72	83.4	234	37.7	30.7	1245	4.12	71.1	2.0	29.0	20.2	20.5	0.07	3.44	0.46	10	0.21	0.050
AA069864	Soil	0.29	36.47	42.00	93.0	230	30.9	26.4	951	3.41	104.5	1.7	52.6	15.8	16.4	0.09	5.34	0.33	9	0.17	0.055
AA069865	Soil	0.54	56.00	61.93	123.1	423	48.1	33.4	1352	4.80	241.4	2.3	59.4	21.0	26.0	0.13	8.15	0.65	7	0.30	0.065
AA069866	Soil	0.46	60.74	61.82	121.8	264	47.1	33.0	1248	4.94	60.1	2.4	12.6	22.9	24.6	0.14	5.81	0.68	10	0.24	0.066
AA069867	Soil	0.52	48.89	50.17	94.6	107	29.4	41.6	1646	3.04	11.4	1.5	<0.2	13.0	5.9	0.09	0.58	0.45	14	0.04	0.056
AA069868	Soil	0.63	30.53	31.17	67.4	85	26.5	13.1	643	3.40	578.9	1.5	47.1	8.9	6.2	0.07	1.32	0.41	9	0.02	0.043
AA069869	Soil	0.41	43.99	32.02	88.9	159	37.7	18.3	644	3.63	38.6	1.3	3.6	13.6	21.0	0.05	2.12	0.41	7	0.16	0.038
AA069870	Soil	0.32	45.63	35.23	78.2	129	39.1	19.8	475	3.39	48.2	1.2	5.6	16.0	18.5	0.05	1.83	0.43	9	0.16	0.053



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**Project:** None Given  
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# CERTIFICATE OF ANALYSIS

# WHI16000180.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA069531	Soil	20.6	31.6	0.90	31.6	0.002	<1	2.19	0.004	0.04	<0.1	1.7	0.04	0.03	21	0.2	0.06	5.8	2.57	<0.1	0.11
AA069532	Soil	8.2	37.2	0.89	20.5	0.001	<1	2.38	0.005	0.03	<0.1	2.0	0.03	0.03	15	0.3	0.07	7.1	3.74	<0.1	0.18
AA069533	Soil	5.6	24.1	0.60	27.2	0.004	<1	1.83	0.016	0.03	<0.1	1.3	0.05	0.03	22	0.2	0.04	5.3	3.30	<0.1	0.10
AA069534	Soil	5.3	39.7	0.97	16.9	0.001	<1	2.53	0.004	0.03	<0.1	1.8	0.03	0.05	37	0.2	0.04	7.6	2.69	<0.1	0.20
AA069535	Soil	16.9	30.9	0.77	21.4	0.006	1	1.94	0.005	0.04	<0.1	1.6	0.06	0.05	44	0.2	0.07	6.3	3.16	<0.1	0.09
AA069536	Soil	22.0	35.4	1.21	23.8	0.002	1	2.59	0.006	0.04	<0.1	3.6	0.05	0.04	111	0.5	0.12	6.7	5.00	<0.1	0.08
AA069537	Soil	25.4	39.8	1.30	21.7	0.002	<1	2.74	0.006	0.04	<0.1	3.2	0.04	<0.02	40	0.2	0.11	7.6	4.92	<0.1	0.07
AA069538	Soil	15.5	34.8	1.04	29.5	0.002	<1	2.52	0.007	0.04	<0.1	3.8	0.04	0.07	59	0.6	0.14	6.6	7.32	<0.1	0.32
AA069539	Soil	7.9	12.6	0.38	18.6	0.010	<1	1.13	0.021	0.03	<0.1	0.9	0.03	0.04	27	0.1	0.04	3.3	1.65	<0.1	0.04
AA069540	Soil	24.5	28.9	1.04	16.2	0.001	<1	2.25	0.003	0.02	<0.1	2.1	0.02	<0.02	10	<0.1	0.09	5.8	1.40	<0.1	0.05
AA069851	Soil	28.4	30.2	0.93	41.0	<0.001	<1	2.09	0.005	0.03	<0.1	4.4	0.07	<0.02	54	0.4	0.06	5.2	1.14	<0.1	0.04
AA069852	Soil	19.0	31.2	1.00	37.1	0.004	1	2.32	0.004	0.06	<0.1	2.6	0.07	<0.02	36	0.2	0.04	5.9	0.98	<0.1	0.08
AA069853	Soil	29.1	55.7	2.44	90.8	0.161	3	2.73	0.021	0.11	<0.1	3.5	0.07	<0.02	21	0.4	0.06	7.6	0.97	<0.1	0.13
AA069854	Soil	23.3	26.6	0.79	48.9	0.009	1	1.93	0.005	0.05	0.2	2.9	0.04	<0.02	32	0.4	0.08	4.8	0.72	<0.1	0.13
AA069855	Soil	19.1	22.2	0.68	41.6	0.002	1	1.75	0.004	0.04	<0.1	3.3	0.05	<0.02	31	0.3	0.09	4.0	0.62	<0.1	0.08
AA069856	Soil	17.6	28.3	0.82	31.6	0.001	<1	2.23	0.005	0.04	<0.1	1.4	0.05	<0.02	13	0.2	0.05	5.6	1.45	<0.1	0.10
AA069857	Soil	13.3	22.8	0.63	56.2	0.004	<1	2.00	0.016	0.04	<0.1	1.5	0.06	<0.02	12	0.4	0.12	5.0	1.27	<0.1	0.06
AA069858	Soil	25.9	34.0	1.00	37.0	<0.001	<1	2.45	0.002	0.04	<0.1	2.1	0.03	<0.02	18	0.1	0.22	6.7	1.94	<0.1	0.07
AA069859	Soil	21.8	30.7	0.69	45.7	0.006	2	1.95	0.006	0.05	<0.1	2.3	0.07	0.02	25	0.3	0.09	5.2	1.44	<0.1	0.05
AA069860	Soil	20.9	14.5	0.48	29.9	0.001	2	1.23	0.003	0.03	<0.1	3.6	0.04	<0.02	27	0.3	0.04	3.1	0.73	<0.1	0.10
AA069861	Soil	21.3	14.2	0.49	29.6	0.001	1	1.24	0.003	0.03	<0.1	3.6	0.03	<0.02	22	0.3	0.05	3.2	0.78	<0.1	0.12
AA069862	Soil	11.8	20.1	0.67	32.5	0.002	1	1.66	0.003	0.05	<0.1	3.3	0.04	0.03	30	0.3	0.04	4.1	1.40	<0.1	0.24
AA069863	Soil	17.7	18.4	0.55	52.6	0.001	1	1.73	0.006	0.04	<0.1	3.3	0.05	<0.02	35	0.3	0.04	4.6	1.48	<0.1	0.07
AA069864	Soil	15.1	15.2	0.45	35.0	0.001	<1	1.36	0.006	0.03	<0.1	2.5	0.04	<0.02	24	0.3	<0.02	3.9	1.07	<0.1	0.05
AA069865	Soil	18.6	12.6	0.37	56.7	0.001	1	1.26	0.008	0.05	<0.1	4.6	0.05	0.03	32	0.3	0.04	2.9	1.93	<0.1	0.07
AA069866	Soil	17.8	18.6	0.56	42.5	0.002	<1	1.63	0.006	0.04	<0.1	4.1	0.05	<0.02	22	0.3	0.05	3.9	1.70	<0.1	0.12
AA069867	Soil	16.6	17.6	0.55	45.1	0.003	<1	1.85	0.012	0.04	<0.1	1.7	0.05	<0.02	20	0.3	0.07	4.8	1.22	<0.1	0.07
AA069868	Soil	22.7	12.1	0.39	60.7	<0.001	<1	1.42	0.004	0.06	<0.1	2.0	0.07	0.03	22	0.3	0.06	3.0	1.93	<0.1	0.04
AA069869	Soil	17.6	14.0	0.44	38.7	0.001	1	1.14	0.003	0.05	<0.1	2.2	0.05	0.02	14	0.3	0.07	2.8	0.83	<0.1	0.09
AA069870	Soil	22.0	12.7	0.39	48.2	0.002	<1	1.12	0.007	0.06	<0.1	2.0	0.05	<0.02	6	0.4	0.06	2.8	1.29	<0.1	0.12



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**Project:** None Given  
**Report Date:** September 12, 2016

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# CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
AA069531	Soil	0.13	4.4	0.3	<0.05	4.1	3.53	37.8	0.03	<1	0.5	63.7	<10	<2
AA069532	Soil	0.08	4.0	0.2	<0.05	6.2	2.20	17.4	0.02	<1	0.3	66.8	<10	<2
AA069533	Soil	0.18	3.8	0.2	<0.05	4.1	2.58	12.5	<0.02	<1	0.5	45.8	<10	<2
AA069534	Soil	0.07	3.2	0.1	<0.05	6.3	1.46	11.5	0.03	<1	0.2	71.4	<10	<2
AA069535	Soil	0.28	6.8	0.2	<0.05	3.0	2.34	30.6	0.02	<1	0.3	53.3	<10	<2
AA069536	Soil	0.06	4.0	0.2	<0.05	3.5	12.10	39.6	0.04	<1	0.9	79.2	<10	2
AA069537	Soil	0.05	3.2	0.2	<0.05	7.0	4.30	43.6	0.03	<1	0.8	85.1	<10	<2
AA069538	Soil	0.09	6.0	0.2	<0.05	9.9	11.83	28.9	0.03	<1	1.3	70.9	<10	<2
AA069539	Soil	0.11	2.6	0.2	<0.05	1.0	2.67	14.9	<0.02	<1	0.2	24.2	<10	<2
AA069540	Soil	0.03	2.0	0.1	<0.05	2.7	4.03	43.2	0.03	<1	0.4	70.5	<10	2
AA069851	Soil	<0.02	2.8	0.3	<0.05	2.6	15.48	47.0	0.05	<1	0.5	68.5	<10	<2
AA069852	Soil	0.14	4.8	0.5	<0.05	5.3	7.52	31.2	0.03	<1	0.7	57.5	<10	<2
AA069853	Soil	1.54	8.9	1.2	<0.05	9.3	11.25	49.7	0.03	<1	1.2	36.6	<10	3
AA069854	Soil	0.49	3.9	0.4	<0.05	4.4	9.92	40.9	0.03	<1	0.3	52.1	<10	<2
AA069855	Soil	0.07	2.7	0.3	<0.05	3.9	10.15	35.7	0.03	<1	0.4	46.3	<10	<2
AA069856	Soil	0.06	4.1	0.2	<0.05	3.2	4.30	32.8	<0.02	<1	0.4	67.8	<10	<2
AA069857	Soil	0.12	3.5	0.4	<0.05	2.2	3.17	24.7	0.02	<1	0.7	56.1	<10	<2
AA069858	Soil	<0.02	3.6	0.4	<0.05	3.5	5.12	46.4	0.03	<1	1.3	96.7	<10	<2
AA069859	Soil	0.22	5.7	1.2	<0.05	3.0	8.82	39.4	0.03	<1	0.9	54.9	<10	3
AA069860	Soil	0.03	2.3	0.6	<0.05	7.3	12.72	42.3	0.04	<1	0.8	38.8	<10	<2
AA069861	Soil	0.03	2.3	0.4	<0.05	7.3	12.61	41.0	0.04	<1	0.7	38.0	<10	<2
AA069862	Soil	<0.02	3.0	0.4	<0.05	15.3	11.11	23.8	0.03	<1	0.7	54.0	<10	<2
AA069863	Soil	0.05	4.3	1.2	<0.05	5.5	13.51	35.6	0.05	<1	0.9	45.2	<10	<2
AA069864	Soil	0.05	2.9	0.4	<0.05	4.0	9.95	31.1	0.03	<1	0.7	36.9	<10	<2
AA069865	Soil	0.04	3.8	1.0	<0.05	6.4	16.11	35.6	0.04	<1	1.1	28.2	<10	<2
AA069866	Soil	0.03	3.6	0.5	<0.05	9.4	14.32	35.3	0.04	<1	0.8	43.9	<10	<2
AA069867	Soil	0.10	4.6	0.4	<0.05	4.1	6.35	32.6	0.02	<1	0.9	47.4	<10	<2
AA069868	Soil	0.08	8.5	0.4	<0.05	2.1	4.93	42.3	<0.02	<1	0.5	25.5	<10	<2
AA069869	Soil	0.03	4.2	0.3	<0.05	5.0	7.47	33.4	0.02	<1	0.5	26.0	<10	<2
AA069870	Soil	0.02	4.3	0.3	<0.05	9.4	5.79	42.3	<0.02	<1	0.4	23.6	<10	<2



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**Project:** None Given  
**Report Date:** September 12, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000180.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
AA069871	Soil	0.53	46.61	31.77	88.2	83	36.0	20.3	694	3.61	115.6	1.2	14.1	13.7	9.8	0.03	1.10	0.48	12	0.09	0.037
AA069872	Soil	0.99	57.73	44.85	104.7	120	47.8	35.6	1324	4.12	155.2	1.4	46.2	11.8	15.2	0.13	1.00	0.57	15	0.10	0.056
AA069873	Soil	3.34	48.26	44.72	92.4	368	40.4	19.3	851	2.85	311.5	1.4	86.8	9.0	40.1	0.45	2.58	0.37	9	2.20	0.055
AA069874	Soil	1.45	57.28	30.01	92.1	310	45.4	23.4	1043	3.49	45.4	0.8	12.4	7.4	23.9	0.22	1.34	0.51	15	0.47	0.058
AA069875	Soil	1.88	44.90	32.60	100.7	69	42.0	19.1	711	4.34	37.6	0.7	2.3	7.6	5.3	0.07	0.60	0.59	17	0.07	0.051
AA069876	Soil	2.48	74.79	30.90	97.1	99	45.6	21.7	618	3.90	32.7	1.3	2.1	9.4	8.0	0.10	0.75	0.40	16	0.11	0.056
AA069877	Soil	0.87	64.21	50.02	71.5	72	37.1	37.5	852	3.22	30.8	1.3	8.5	5.4	15.1	0.06	0.68	0.37	13	0.14	0.050
AA069878	Soil	0.53	46.76	41.55	72.3	68	32.8	21.4	782	3.48	75.9	1.2	10.9	4.6	13.2	0.04	0.73	0.49	12	0.07	0.076
AA069879	Soil	0.57	39.12	35.34	81.6	75	31.1	15.8	508	3.55	42.1	1.5	5.3	5.7	9.2	0.06	0.97	0.40	16	0.02	0.056
AA069880	Soil	0.41	49.01	34.97	100.7	39	39.5	22.1	411	3.88	34.7	1.6	3.9	8.2	17.5	0.05	1.02	0.33	11	0.05	0.049
AA069891	Soil	0.60	72.61	45.23	113.0	36	60.0	31.2	1311	5.08	54.1	1.7	9.2	10.0	7.3	0.05	0.40	0.55	18	0.11	0.055
AA069892	Soil	0.64	72.56	44.79	107.1	62	57.6	29.0	1859	5.14	44.6	1.6	6.3	7.6	6.1	0.05	0.34	0.58	19	0.07	0.051
AA069893	Soil	0.59	52.74	37.75	95.3	67	43.9	20.3	1434	4.36	34.0	1.4	3.3	4.5	5.9	0.07	0.46	0.45	18	0.06	0.062
AA069894	Soil	0.49	46.94	29.81	98.3	36	45.3	20.6	1252	4.60	45.6	1.6	6.6	5.0	5.2	0.04	0.39	0.45	18	0.02	0.054
AA069895	Soil	0.56	61.18	28.44	102.1	81	54.1	19.4	1139	5.01	41.2	1.9	4.7	7.2	8.8	0.04	0.66	0.52	16	0.15	0.051
AA069896	Soil	0.60	55.70	31.22	104.8	45	51.9	22.1	1222	5.03	50.0	1.8	5.2	6.6	6.0	0.04	0.64	0.50	19	0.05	0.055
AA069897	Soil	0.52	46.22	20.04	104.1	17	56.3	20.6	986	4.99	24.7	1.0	1.1	7.7	4.4	0.05	0.36	0.43	22	0.03	0.044
AA069898	Soil	0.72	63.78	25.71	101.1	59	53.9	23.4	1244	4.64	23.5	1.1	1.0	8.0	6.9	0.07	0.47	0.54	21	0.09	0.063
AA069899	Soil	0.74	56.23	32.63	110.7	66	51.7	22.3	999	4.86	85.8	1.8	25.3	6.9	6.0	0.06	0.96	0.54	19	0.04	0.066
AA069900	Soil	0.52	48.91	30.91	110.4	90	50.7	13.9	610	5.29	46.2	2.1	2.8	9.9	7.9	0.06	0.77	0.41	20	0.08	0.054
AA070531	Soil	0.99	132.39	151.82	120.3	243	66.8	93.3	1885	4.94	24.8	5.0	1.3	16.6	18.0	0.14	1.02	0.72	18	0.11	0.074
AA070532	Soil	0.75	78.24	77.99	104.9	121	49.6	57.0	1639	4.45	19.5	2.7	1.3	17.0	14.5	0.13	0.70	0.65	17	0.12	0.059
AA070533	Soil	0.85	76.74	114.33	110.6	144	48.7	40.8	1461	4.52	14.8	2.5	<0.2	14.8	10.7	0.10	0.51	0.64	19	0.08	0.047
AA070534	Soil	0.86	78.99	78.13	110.2	119	50.8	41.2	1553	4.67	15.8	2.6	0.3	17.6	11.2	0.08	0.55	0.65	19	0.08	0.049
AA070535	Soil	0.46	55.14	45.49	82.4	100	37.3	33.1	817	3.50	14.4	2.4	1.3	11.4	9.2	0.09	0.94	0.45	14	0.09	0.056
AA070536	Soil	0.81	154.09	71.53	99.2	135	57.9	111.6	1586	3.32	13.5	6.0	1.3	20.5	9.1	0.20	0.49	0.60	15	0.07	0.076
AA070537	Soil	0.68	68.14	82.40	104.0	120	40.4	32.8	1213	4.05	14.5	2.3	1.2	17.4	12.2	0.10	0.48	0.69	15	0.10	0.049
AA070538	Soil	0.32	37.63	36.58	82.9	92	29.4	16.5	561	3.38	12.5	1.4	1.4	14.0	12.9	0.08	0.89	0.62	10	0.14	0.051
AA070539	Soil	0.49	52.65	66.84	103.8	156	39.2	25.7	935	4.12	12.2	1.8	1.6	21.1	18.9	0.14	0.90	0.78	11	0.19	0.060
AA070540	Soil	0.89	62.22	67.90	95.1	150	39.1	34.7	1168	3.81	15.9	3.5	2.8	16.0	9.4	0.08	0.94	0.60	18	0.05	0.063



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**Project:** None Given  
**Report Date:** September 12, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000180.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
AA069871	Soil	28.9	19.1	0.67	42.2	0.003	1	1.60	0.005	0.08	<0.1	2.3	0.06	<0.02	21	0.4	0.11	4.0	1.71	<0.1	0.05
AA069872	Soil	31.8	24.2	0.97	34.1	0.004	<1	2.00	0.002	0.04	<0.1	2.5	0.05	<0.02	9	0.2	0.08	5.4	1.40	<0.1	0.05
AA069873	Soil	15.9	13.3	1.30	43.9	<0.001	<1	0.99	0.002	0.05	<0.1	3.8	0.07	0.04	20	0.3	0.08	1.8	1.18	<0.1	0.04
AA069874	Soil	22.4	24.6	0.99	43.3	0.002	1	1.75	0.003	0.04	<0.1	3.8	0.05	0.02	5	0.4	0.08	4.2	1.16	<0.1	0.04
AA069875	Soil	25.9	29.8	1.09	18.8	0.004	<1	2.22	0.005	0.04	<0.1	2.3	0.05	<0.02	28	0.3	0.09	5.9	0.84	<0.1	0.03
AA069876	Soil	15.4	29.8	1.10	20.0	0.003	<1	2.09	0.005	0.04	<0.1	3.2	0.05	<0.02	25	0.3	0.08	5.3	1.27	<0.1	0.07
AA069877	Soil	20.7	26.7	0.97	28.3	0.006	<1	1.73	0.013	0.04	<0.1	1.9	0.03	0.02	22	0.2	0.11	4.3	1.27	<0.1	0.06
AA069878	Soil	21.8	18.6	0.64	31.4	0.003	1	1.53	0.003	0.05	<0.1	1.2	0.04	0.06	55	0.3	0.13	4.0	1.87	<0.1	0.09
AA069879	Soil	22.0	23.6	0.53	45.1	0.002	<1	1.77	0.003	0.04	<0.1	1.3	0.07	0.03	25	0.3	0.02	4.9	1.93	<0.1	0.13
AA069880	Soil	27.4	24.0	0.62	31.8	<0.001	<1	1.79	0.002	0.04	<0.1	1.2	0.03	0.02	20	0.1	0.02	4.5	1.87	<0.1	0.07
AA069891	Soil	27.1	39.4	1.37	19.0	0.002	2	2.88	0.003	0.03	<0.1	2.5	0.02	<0.02	12	0.1	0.09	7.4	1.39	<0.1	0.09
AA069892	Soil	25.2	40.1	1.40	17.1	0.002	<1	2.94	0.004	0.04	<0.1	2.8	0.02	<0.02	14	0.2	0.11	7.7	1.73	<0.1	0.10
AA069893	Soil	15.6	34.3	1.08	20.6	0.002	<1	2.45	0.008	0.03	<0.1	1.9	0.03	0.02	20	0.2	0.09	7.1	1.78	<0.1	0.12
AA069894	Soil	18.4	36.1	1.12	24.6	0.001	<1	2.64	0.005	0.03	<0.1	2.0	0.03	<0.02	9	0.2	0.08	7.1	2.47	<0.1	0.17
AA069895	Soil	20.6	32.8	1.10	21.5	<0.001	<1	2.49	0.004	0.04	<0.1	3.1	0.02	<0.02	25	0.2	0.07	6.4	2.11	<0.1	0.10
AA069896	Soil	17.2	39.0	1.23	21.6	<0.001	<1	2.74	0.004	0.03	<0.1	2.5	0.03	<0.02	6	0.1	0.09	7.6	2.39	<0.1	0.12
AA069897	Soil	29.8	41.2	1.28	32.0	0.003	<1	3.01	0.004	0.05	<0.1	2.1	0.04	<0.02	10	<0.1	0.09	8.0	1.03	<0.1	0.14
AA069898	Soil	30.2	36.4	1.24	28.6	0.006	<1	2.69	0.003	0.03	<0.1	2.3	0.03	<0.02	9	0.3	0.11	6.9	1.01	<0.1	0.14
AA069899	Soil	32.2	39.1	1.13	29.8	0.002	<1	2.68	0.004	0.04	<0.1	2.2	0.03	<0.02	16	0.2	0.07	7.3	1.74	<0.1	0.14
AA069900	Soil	10.6	42.6	1.12	16.1	0.001	<1	2.84	0.005	0.03	<0.1	2.1	0.02	<0.02	13	0.2	0.08	8.1	2.06	<0.1	0.07
AA070531	Soil	24.3	34.4	0.99	35.5	0.002	<1	2.40	0.008	0.04	<0.1	2.5	0.06	0.02	22	0.2	0.07	5.9	1.55	<0.1	0.07
AA070532	Soil	22.0	33.4	0.99	29.9	0.002	<1	2.31	0.007	0.04	<0.1	2.5	0.05	<0.02	14	0.2	0.06	6.0	1.32	<0.1	0.09
AA070533	Soil	32.2	36.5	0.96	36.5	0.003	1	2.30	0.004	0.04	<0.1	2.5	0.04	<0.02	18	0.4	0.07	7.0	1.41	<0.1	0.04
AA070534	Soil	33.6	37.6	0.99	39.3	0.003	<1	2.40	0.004	0.05	<0.1	2.5	0.04	<0.02	18	0.1	0.06	6.6	1.64	<0.1	0.09
AA070535	Soil	16.5	23.3	0.69	31.9	0.004	<1	1.73	0.009	0.03	<0.1	2.0	0.03	<0.02	11	0.2	0.06	4.7	0.96	<0.1	0.04
AA070536	Soil	17.3	24.4	0.69	36.0	0.007	2	1.92	0.013	0.04	<0.1	2.3	0.07	0.02	17	0.1	0.07	4.9	1.47	<0.1	0.11
AA070537	Soil	18.8	30.0	0.85	35.6	0.002	2	2.14	0.004	0.03	<0.1	2.3	0.05	<0.02	17	<0.1	0.12	5.6	0.86	<0.1	0.04
AA070538	Soil	16.9	17.3	0.57	33.2	0.003	2	1.53	0.007	0.02	<0.1	2.2	0.03	<0.02	19	<0.1	0.08	3.9	0.47	<0.1	0.09
AA070539	Soil	17.8	21.6	0.70	30.1	0.002	2	1.72	0.003	0.03	<0.1	3.2	0.04	<0.02	32	<0.1	0.07	4.4	0.68	<0.1	0.09
AA070540	Soil	24.9	28.9	0.72	36.0	0.006	2	1.96	0.010	0.04	<0.1	2.2	0.05	<0.02	23	<0.1	0.08	5.2	1.44	<0.1	0.07



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**Project:** None Given  
**Report Date:** September 12, 2016

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# CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
AA069871	Soil	0.06	7.1	0.7	<0.05	3.2	5.26	53.3	0.03	1	0.7	39.5	<10	2
AA069872	Soil	0.09	3.9	0.2	<0.05	3.2	5.63	54.8	0.03	<1	0.5	58.7	<10	<2
AA069873	Soil	<0.02	3.2	1.1	<0.05	6.2	8.90	29.7	0.03	<1	0.6	15.4	<10	3
AA069874	Soil	0.10	3.4	0.2	<0.05	2.2	6.70	39.2	0.03	<1	0.5	46.2	<10	<2
AA069875	Soil	0.08	3.2	0.7	<0.05	2.9	4.43	45.7	0.03	<1	0.6	78.1	<10	<2
AA069876	Soil	0.10	3.9	0.5	<0.05	4.5	9.09	27.7	0.03	<1	0.8	70.9	<10	<2
AA069877	Soil	0.11	3.4	0.8	<0.05	4.0	7.51	35.7	<0.02	<1	0.5	51.9	<10	<2
AA069878	Soil	0.07	5.1	0.9	<0.05	3.8	3.08	38.1	0.02	<1	0.5	40.3	<10	3
AA069879	Soil	0.15	7.2	0.2	<0.05	4.8	3.17	40.8	<0.02	<1	0.5	40.0	<10	<2
AA069880	Soil	0.03	4.7	0.4	<0.05	3.5	3.07	48.5	<0.02	<1	0.2	49.1	<10	<2
AA069891	Soil	<0.02	1.7	0.2	<0.05	5.3	4.69	49.0	<0.02	<1	0.5	103.0	<10	<2
AA069892	Soil	0.05	2.5	0.4	<0.05	3.9	5.64	45.0	0.03	<1	0.4	103.6	<10	<2
AA069893	Soil	0.05	2.7	0.1	<0.05	4.3	2.90	29.6	0.03	<1	0.3	83.1	<10	<2
AA069894	Soil	0.06	3.7	0.2	<0.05	5.0	2.59	33.4	<0.02	<1	0.5	89.8	<10	2
AA069895	Soil	0.03	2.9	0.3	<0.05	3.3	7.95	35.1	0.03	<1	0.5	81.9	<10	<2
AA069896	Soil	0.04	3.1	<0.1	<0.05	4.5	3.97	31.3	0.02	<1	0.4	94.0	<10	<2
AA069897	Soil	0.14	4.2	0.1	<0.05	4.9	2.57	53.1	0.02	<1	0.3	95.2	<10	<2
AA069898	Soil	0.16	3.4	0.1	<0.05	5.0	4.05	52.0	0.02	<1	0.2	88.2	<10	<2
AA069899	Soil	0.11	3.7	0.2	<0.05	4.6	3.15	55.4	0.03	<1	0.4	87.2	<10	<2
AA069900	Soil	0.04	2.9	0.1	<0.05	4.4	2.38	20.3	0.03	<1	0.2	90.1	<10	<2
AA070531	Soil	0.03	3.0	>100	<0.05	6.1	7.68	40.8	0.04	<1	0.7	88.9	<10	<2
AA070532	Soil	0.03	3.0	1.6	<0.05	7.8	6.17	37.8	0.02	<1	0.6	85.4	<10	<2
AA070533	Soil	0.05	3.4	64.0	<0.05	3.4	7.13	55.6	0.02	<1	0.7	89.9	<10	3
AA070534	Soil	0.03	3.6	3.3	<0.05	7.6	7.19	58.9	0.03	<1	0.5	92.4	<10	<2
AA070535	Soil	0.05	2.4	4.9	<0.05	2.6	6.35	28.6	0.03	<1	0.7	62.5	<10	<2
AA070536	Soil	0.17	3.8	1.8	<0.05	3.8	8.69	29.8	<0.02	<1	0.8	59.0	<10	<2
AA070537	Soil	0.04	2.9	10.3	<0.05	2.9	5.23	32.3	0.03	<1	0.5	77.8	<10	<2
AA070538	Soil	0.07	2.6	0.4	<0.05	3.2	7.37	31.9	0.02	<1	0.4	42.1	<10	<2
AA070539	Soil	0.04	2.8	7.2	<0.05	6.4	10.74	34.3	0.02	<1	0.4	58.5	<10	<2
AA070540	Soil	0.09	3.6	3.6	<0.05	5.9	6.23	42.4	0.03	<1	0.4	65.2	<10	<2



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**Project:** None Given  
**Report Date:** September 12, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000180.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
AA070541	Soil	0.45	45.59	51.90	99.3	144	40.7	25.8	835	4.28	11.2	1.9	1.6	22.5	23.5	0.11	0.99	0.61	10	0.22	0.052
AA070542	Soil	0.35	39.56	42.14	83.6	129	38.2	26.9	979	4.08	6.8	2.1	0.9	19.5	22.7	0.08	0.63	0.57	10	0.19	0.062
AA070543	Soil	0.93	23.24	38.87	48.5	130	23.1	14.1	747	3.32	13.8	1.9	8.6	17.7	29.2	0.07	2.24	0.35	4	0.30	0.043
AA070544	Soil	0.44	42.39	46.08	102.1	151	43.4	24.9	901	4.51	8.2	3.1	2.0	18.9	28.7	0.09	1.01	0.48	10	0.18	0.070
AA070545	Soil	0.63	47.08	45.19	100.3	118	45.1	26.8	1149	4.92	5.7	2.8	1.7	20.3	14.8	0.10	0.85	0.45	18	0.08	0.053
AA070546	Soil	0.73	47.49	62.99	117.8	198	46.8	24.7	1041	5.11	14.5	3.1	1.5	24.6	26.9	0.18	3.61	0.50	13	0.20	0.065
AA070547	Soil	0.41	34.41	33.99	82.8	94	35.0	20.8	710	3.91	10.0	2.0	1.0	20.2	27.7	0.07	1.81	0.40	9	0.22	0.052
AA070548	Soil	0.80	48.13	64.68	117.6	171	45.7	25.0	1114	5.07	15.5	3.0	1.8	22.3	21.4	0.14	4.57	0.52	15	0.17	0.074
AA070549	Soil	0.72	45.94	54.58	121.1	182	50.3	28.3	1319	5.21	15.8	3.5	3.7	23.9	22.0	0.16	5.61	0.47	11	0.17	0.061
AA070550	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.
AA070551	Soil	0.53	57.10	41.91	110.5	54	55.0	22.5	1514	4.95	37.6	1.2	5.6	7.5	7.5	0.04	0.37	0.58	19	0.11	0.049
AA070552	Soil	0.66	75.77	58.70	105.5	76	54.1	32.5	2195	4.92	55.4	1.6	5.5	7.4	7.9	0.05	0.60	0.70	19	0.08	0.068
AA070553	Soil	0.65	64.73	42.48	107.3	78	55.6	26.0	1495	4.99	71.5	1.9	11.8	8.9	9.5	0.03	0.66	0.62	18	0.10	0.046
AA070554	Soil	0.64	69.66	44.91	105.8	75	50.0	24.0	1555	4.72	76.1	2.0	9.4	6.2	10.7	0.11	0.58	0.61	19	0.13	0.053
AA070555	Soil	0.77	47.73	38.01	90.8	101	35.7	17.9	1098	4.27	37.4	2.1	4.3	5.2	8.5	0.09	0.66	0.51	17	0.06	0.134
AA070556	Soil	0.69	67.88	41.36	114.9	72	52.5	28.4	1010	4.96	33.2	2.3	2.8	6.4	9.2	0.07	0.82	0.56	18	0.08	0.062
AA070557	Soil	0.46	51.82	30.95	110.5	67	51.1	17.3	819	4.92	35.8	2.1	6.4	6.3	10.2	0.04	0.74	0.57	18	0.13	0.058
AA070558	Soil	0.57	52.56	19.79	81.2	59	44.7	14.9	687	4.07	22.6	1.8	2.4	5.0	7.0	0.03	0.46	0.46	21	0.07	0.059
AA070559	Soil	0.74	34.06	22.23	83.1	32	39.2	13.5	586	4.88	27.8	1.1	6.7	9.9	4.0	0.04	0.50	0.46	24	0.02	0.037
AA070560	Soil	1.23	54.98	51.94	123.5	128	68.4	43.4	2375	5.41	93.5	2.2	11.2	9.2	9.8	0.20	3.61	0.56	18	0.03	0.045
AA070561	Soil	0.36	61.31	50.15	119.2	119	50.4	31.8	985	4.99	561.4	4.4	183.2	8.6	25.1	0.08	1.49	0.42	17	0.17	0.066
AA070562	Soil	1.38	73.62	47.39	107.7	105	44.2	31.1	1127	4.73	49.0	2.3	6.3	9.0	4.7	0.07	0.88	0.54	17	0.01	0.042
AA070563	Soil	0.65	57.48	40.16	103.6	28	51.2	27.2	1132	4.84	48.4	2.3	7.0	9.1	6.2	0.04	0.58	0.44	18	0.04	0.033
AA070564	Soil	0.47	55.75	33.63	103.3	58	47.8	20.0	1121	4.93	67.8	2.3	10.1	7.6	5.5	0.05	0.53	0.49	21	0.03	0.048
AA070565	Soil	0.46	23.43	22.80	64.2	111	21.1	11.0	621	2.29	11.9	1.7	3.4	10.9	31.1	0.19	1.08	0.27	5	0.62	0.048
AA070566	Soil	0.45	28.19	25.74	68.2	90	23.5	13.3	580	2.56	13.2	1.8	3.1	9.1	26.7	0.15	0.94	0.31	7	0.49	0.052
AA070567	Soil	0.68	27.82	21.40	66.0	20	23.4	9.8	297	3.31	15.2	1.2	1.5	2.9	6.1	0.05	0.68	0.39	18	0.02	0.061
AA070568	Soil	0.46	17.50	14.81	32.7	93	11.2	5.1	204	1.58	6.1	1.6	0.8	0.5	6.7	0.06	0.29	0.19	14	0.06	0.076
AA070569	Soil	0.63	32.77	25.14	81.3	34	32.4	15.1	472	3.63	11.9	1.4	1.4	5.7	5.3	0.08	0.52	0.41	21	0.03	0.068
AA070570	Soil	0.65	42.83	32.99	97.0	26	40.9	22.5	606	3.82	14.5	1.3	1.0	9.6	7.8	0.13	0.54	0.51	22	0.07	0.058



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**Project:** None Given  
**Report Date:** September 12, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000180.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
AA070541	Soil	15.6	20.7	0.71	28.0	0.002	1	1.68	0.003	0.03	<0.1	3.1	0.04	<0.02	29	<0.1	0.04	4.0	0.76	<0.1	0.12
AA070542	Soil	12.3	19.9	0.70	28.8	0.003	<1	1.62	0.004	0.03	<0.1	3.1	0.03	<0.02	19	<0.1	0.04	4.3	0.60	<0.1	0.15
AA070543	Soil	7.4	8.3	0.26	31.0	<0.001	<1	0.90	0.004	0.03	<0.1	2.0	0.03	0.02	14	<0.1	<0.02	1.8	1.15	<0.1	0.16
AA070544	Soil	13.2	19.5	0.61	31.4	0.002	<1	1.58	0.006	0.02	<0.1	3.3	0.04	0.03	31	<0.1	0.04	3.9	0.78	<0.1	0.11
AA070545	Soil	18.7	24.9	0.79	26.1	0.011	<1	1.72	0.004	0.03	<0.1	3.4	0.05	<0.02	21	<0.1	0.03	5.2	0.68	<0.1	0.13
AA070546	Soil	21.7	25.0	0.72	37.0	0.005	2	1.85	0.007	0.05	<0.1	5.1	0.05	<0.02	30	<0.1	0.06	5.0	1.20	0.1	0.19
AA070547	Soil	15.1	18.6	0.57	29.0	0.002	<1	1.47	0.005	0.03	<0.1	3.4	0.03	<0.02	16	<0.1	0.02	4.0	0.80	<0.1	0.14
AA070548	Soil	21.3	25.6	0.73	43.6	0.008	<1	1.91	0.009	0.05	<0.1	5.0	0.06	0.02	23	0.3	0.03	5.0	1.41	<0.1	0.08
AA070549	Soil	18.3	21.8	0.70	33.7	0.004	2	1.72	0.006	0.04	<0.1	4.5	0.04	0.02	29	0.1	0.05	4.4	1.17	0.2	0.10
AA070550	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.
AA070551	Soil	21.9	39.3	1.39	14.2	0.001	<1	2.84	0.005	0.03	<0.1	2.9	<0.02	<0.02	23	<0.1	0.12	7.3	1.55	<0.1	0.09
AA070552	Soil	23.3	36.7	1.32	21.6	0.001	<1	2.79	0.004	0.03	<0.1	2.9	0.03	<0.02	14	<0.1	0.14	7.6	1.95	<0.1	0.13
AA070553	Soil	21.6	39.1	1.38	16.9	0.001	<1	2.81	0.004	0.02	<0.1	3.0	0.02	<0.02	12	<0.1	0.13	7.4	1.53	0.1	0.07
AA070554	Soil	14.3	38.4	1.23	22.5	0.001	<1	2.72	0.006	0.04	<0.1	2.8	0.03	0.03	36	<0.1	0.10	7.0	2.87	<0.1	0.14
AA070555	Soil	11.0	33.0	0.82	25.7	0.002	<1	2.14	0.004	0.03	<0.1	1.5	0.04	0.05	22	0.2	0.08	6.3	2.76	0.1	0.24
AA070556	Soil	26.1	40.1	1.22	23.8	0.001	<1	2.80	0.004	0.05	<0.1	2.1	0.03	<0.02	16	<0.1	0.06	7.4	3.22	<0.1	0.18
AA070557	Soil	14.8	39.4	1.16	20.4	0.001	<1	2.71	0.005	0.03	<0.1	2.4	0.02	0.02	13	<0.1	0.08	7.3	2.32	0.1	0.13
AA070558	Soil	20.4	34.6	0.96	34.1	0.005	<1	2.35	0.006	0.03	<0.1	1.9	0.04	<0.02	15	<0.1	0.07	6.8	1.34	<0.1	0.09
AA070559	Soil	32.7	35.1	0.92	22.4	0.004	<1	2.34	0.003	0.03	<0.1	1.9	0.05	<0.02	10	<0.1	0.05	7.5	0.99	<0.1	0.07
AA070560	Soil	31.5	35.6	0.90	30.4	0.002	<1	2.41	0.005	0.04	<0.1	2.9	0.06	0.02	42	0.2	0.10	6.5	1.32	<0.1	0.08
AA070561	Soil	26.1	35.8	1.02	33.1	0.001	<1	2.45	0.005	0.04	<0.1	2.7	0.04	0.03	52	<0.1	0.05	6.7	2.23	<0.1	0.07
AA070562	Soil	19.6	38.3	0.97	16.0	<0.001	<1	2.33	0.004	0.02	<0.1	2.1	0.06	0.02	30	0.1	0.09	6.5	2.17	<0.1	0.12
AA070563	Soil	13.5	40.0	1.10	19.3	<0.001	<1	2.70	0.005	0.03	<0.1	2.4	0.02	<0.02	16	<0.1	0.07	7.1	1.55	<0.1	0.07
AA070564	Soil	16.2	42.1	1.13	29.7	0.001	<1	2.73	0.005	0.03	<0.1	2.4	0.03	<0.02	12	<0.1	0.08	7.7	1.79	<0.1	0.13
AA070565	Soil	21.5	6.6	0.35	24.7	<0.001	<1	0.94	0.002	0.02	<0.1	1.7	0.03	<0.02	26	0.1	0.05	1.8	0.47	<0.1	0.03
AA070566	Soil	20.6	9.3	0.40	26.4	0.001	<1	1.11	0.003	0.02	<0.1	1.6	0.03	0.02	32	<0.1	0.03	2.4	0.47	<0.1	0.04
AA070567	Soil	16.5	18.3	0.37	34.1	0.005	<1	1.40	0.004	0.03	<0.1	0.7	0.06	0.04	20	0.2	0.05	4.5	0.76	<0.1	0.03
AA070568	Soil	8.6	10.9	0.21	33.0	0.007	<1	1.19	0.018	0.03	<0.1	0.4	0.05	0.05	23	0.2	<0.02	3.4	0.73	<0.1	<0.02
AA070569	Soil	14.6	28.2	0.72	25.5	0.009	<1	1.93	0.004	0.03	<0.1	1.3	0.05	<0.02	14	0.2	0.05	5.5	0.71	<0.1	0.05
AA070570	Soil	16.7	31.6	0.83	29.0	0.010	<1	2.08	0.002	0.03	<0.1	1.7	0.04	<0.02	19	<0.1	0.06	5.4	0.64	<0.1	0.06



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**Project:** None Given  
**Report Date:** September 12, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000180.1

Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA070541	Soil	0.03	2.5	3.5	<0.05	9.3	11.18	31.0	0.03	<1	0.6	52.1	<10	<2
AA070542	Soil	0.04	1.9	1.5	<0.05	12.9	11.83	25.0	0.02	<1	0.7	52.0	<10	<2
AA070543	Soil	<0.02	2.0	2.1	<0.05	10.3	8.15	15.5	<0.02	<1	0.4	16.0	<10	<2
AA070544	Soil	0.06	2.4	1.1	<0.05	7.1	13.05	24.9	0.04	<1	0.5	47.2	<10	<2
AA070545	Soil	0.06	2.6	3.7	<0.05	9.3	13.09	37.0	0.04	<1	0.6	60.6	<10	<2
AA070546	Soil	0.09	3.9	11.1	<0.05	15.3	18.56	40.4	0.06	<1	0.6	50.9	<10	<2
AA070547	Soil	0.04	2.1	1.9	<0.05	11.2	12.42	29.4	0.04	<1	0.5	42.8	<10	<2
AA070548	Soil	0.18	4.9	10.8	<0.05	6.8	18.22	39.8	0.05	<1	0.8	47.7	<10	<2
AA070549	Soil	0.07	3.0	4.2	<0.05	10.7	16.31	34.6	0.04	<1	0.7	50.2	<10	<2
AA070550	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.
AA070551	Soil	<0.02	2.1	1.3	<0.05	3.7	4.13	38.4	0.02	<1	0.4	97.5	<10	<2
AA070552	Soil	0.04	2.4	4.3	<0.05	5.0	5.23	43.2	0.03	<1	0.6	93.3	<10	<2
AA070553	Soil	0.02	1.7	0.5	<0.05	5.2	4.27	38.1	0.03	<1	0.3	97.3	<10	<2
AA070554	Soil	0.05	3.5	4.7	<0.05	4.6	4.87	26.6	0.02	<1	0.3	90.5	<10	<2
AA070555	Soil	0.11	4.4	0.8	<0.05	8.0	2.27	19.8	<0.02	<1	0.4	61.9	<10	<2
AA070556	Soil	0.04	3.1	2.4	<0.05	5.8	4.28	41.9	0.03	<1	0.5	96.2	<10	<2
AA070557	Soil	0.05	3.3	0.9	<0.05	4.4	3.81	25.7	0.02	<1	0.4	91.4	<10	<2
AA070558	Soil	0.17	3.3	1.0	<0.05	3.0	4.54	35.8	0.03	<1	0.4	73.6	<10	<2
AA070559	Soil	0.26	3.8	0.4	<0.05	3.1	2.29	58.4	<0.02	<1	0.2	71.2	<10	<2
AA070560	Soil	0.08	3.4	1.1	<0.05	3.4	5.00	52.3	0.03	<1	0.5	82.0	<10	<2
AA070561	Soil	0.03	2.8	0.4	<0.05	3.2	5.77	44.3	0.02	<1	0.4	78.7	<10	<2
AA070562	Soil	0.04	2.5	3.1	<0.05	4.4	2.71	34.4	<0.02	<1	0.3	72.2	<10	<2
AA070563	Soil	0.03	2.5	0.4	<0.05	2.7	2.61	25.6	<0.02	<1	0.2	85.0	<10	<2
AA070564	Soil	0.03	3.1	0.5	<0.05	4.3	3.27	29.1	0.03	<1	0.4	81.5	<10	<2
AA070565	Soil	0.03	1.9	0.5	<0.05	2.2	7.97	40.0	<0.02	<1	0.5	12.0	<10	<2
AA070566	Soil	0.06	2.5	1.7	<0.05	1.9	7.17	39.0	0.03	<1	0.5	17.9	<10	<2
AA070567	Soil	0.25	5.1	0.5	<0.05	1.1	2.47	30.4	<0.02	<1	0.3	27.8	<10	<2
AA070568	Soil	0.15	4.9	1.5	<0.05	0.5	3.15	15.4	<0.02	<1	0.1	13.0	<10	<2
AA070569	Soil	0.19	4.5	0.5	<0.05	1.9	2.48	24.8	<0.02	<1	0.4	61.4	<10	<2
AA070570	Soil	0.23	3.5	0.7	<0.05	2.7	3.37	29.6	<0.02	<1	0.4	71.8	<10	<2



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**Project:** None Given  
**Report Date:** September 12, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000180.1

Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
AA069671	Soil	0.44	44.06	31.92	113.8	62	52.2	20.2	768	5.04	72.8	2.2	8.9	10.1	5.8	0.05	0.54	0.34	18	0.07	0.039	
AA069672	Soil	0.57	47.87	42.52	94.1	81	40.2	23.6	972	4.12	54.6	1.3	6.4	3.8	6.4	0.06	0.96	0.37	15	0.07	0.061	
AA069673	Soil	0.59	52.30	42.32	98.3	88	43.7	27.4	1100	4.36	56.0	1.5	6.2	4.0	6.4	0.06	0.96	0.39	16	0.08	0.068	
AA069674	Soil	0.40	37.09	36.79	101.9	73	42.7	19.2	892	4.46	33.2	1.5	6.1	4.2	7.0	0.06	0.38	0.34	16	0.09	0.060	
AA069675	Soil	1.40	42.81	23.62	111.1	38	51.5	20.9	635	4.89	42.1	1.4	13.9	8.8	3.9	0.04	0.40	0.35	16	0.04	0.032	
AA069676	Soil	1.24	46.47	26.18	94.5	75	46.1	20.3	565	4.33	48.7	1.1	12.0	8.8	10.0	0.05	0.48	0.43	15	0.12	0.042	
AA069677	Soil	0.54	39.67	17.90	95.7	86	43.2	15.2	414	4.15	40.8	0.8	13.3	9.7	11.8	0.03	0.35	0.42	15	0.12	0.040	
AA069678	Soil	0.38	37.24	22.16	92.5	70	43.2	17.5	696	3.96	24.2	0.8	9.9	9.5	10.6	0.05	0.24	0.40	15	0.10	0.037	
AA069679	Soil	0.33	32.34	15.71	87.4	71	42.6	15.5	489	3.88	20.2	0.7	8.6	8.3	8.5	0.03	0.18	0.36	15	0.08	0.037	
AA069680	Soil	2.56	42.78	23.28	96.0	192	43.8	18.6	410	3.82	24.7	6.2	6.6	5.0	10.3	0.14	0.56	0.43	17	0.18	0.053	
AA069681	Soil	1.01	40.35	17.27	82.1	173	34.8	12.1	823	3.43	22.4	4.9	4.2	2.3	24.1	0.11	0.51	0.34	14	0.60	0.121	
AA069682	Soil	1.22	24.16	26.56	48.4	100	15.3	7.2	259	3.08	133.2	1.1	8.5	0.7	6.1	0.09	0.95	0.42	25	0.03	0.139	
AA069683	Soil	1.13	41.59	46.55	79.5	105	25.9	12.4	383	3.86	521.7	1.8	28.4	4.7	16.5	0.09	1.62	0.60	26	0.08	0.099	
AA069684	Soil	0.48	43.49	47.10	61.3	233	26.6	18.0	403	3.58	2078.4	3.0	374.6	18.6	194.8	0.04	4.44	0.54	6	0.10	0.059	
AA069685	Soil	1.25	68.40	85.05	106.0	267	49.0	51.0	1238	3.86	555.6	2.3	35.1	21.4	13.7	0.09	1.98	0.46	12	0.07	0.058	
AA069686	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.	
AA069687	Soil	0.58	58.59	57.94	96.5	268	37.8	30.2	759	3.78	1069.8	2.7	176.4	14.4	23.4	0.12	2.47	0.47	12	0.12	0.053	
AA069688	Soil	0.80	46.64	44.90	85.1	159	32.8	20.2	773	3.88	321.9	1.9	31.6	5.3	19.7	0.07	1.32	0.55	18	0.12	0.061	
AA069689	Soil	1.79	18.05	37.96	55.9	53	18.2	9.8	675	2.90	75.8	0.7	3.0	1.2	8.4	0.05	0.50	0.53	24	0.04	0.069	
AA069690	Soil	1.10	47.45	53.73	80.4	115	38.3	47.0	1208	3.70	128.7	0.8	7.5	5.4	7.5	0.08	0.78	0.81	17	0.05	0.096	
AA069691	Soil	2.21	34.68	27.17	64.2	139	25.4	9.6	462	3.28	199.2	1.9	20.9	5.2	14.4	0.08	3.02	0.45	16	0.11	0.050	
AA069692	Soil	0.77	28.14	34.94	121.0	21	62.4	94.7	726	3.32	19.7	1.5	1.2	3.2	19.5	0.08	0.53	0.35	23	0.03	0.066	
AA069693	Soil	1.08	48.46	80.92	91.2	47	41.2	34.2	1095	4.62	187.3	1.1	22.7	10.5	8.4	0.09	1.02	1.05	15	0.06	0.102	
AA069694	Soil	0.65	13.99	48.82	49.9	27	13.6	9.1	1895	3.32	29.8	0.6	2.2	3.5	3.2	0.07	0.94	0.30	14	0.01	0.067	
AA069695	Soil	0.28	23.98	26.45	73.4	10	30.4	14.4	384	3.81	131.8	0.5	11.2	10.2	3.3	0.02	0.57	0.41	12	<0.01	0.023	
AA069696	Soil	0.27	47.24	16.84	92.4	45	43.6	15.8	158	3.41	22.1	1.2	1.2	16.0	9.9	0.02	0.29	0.33	9	0.09	0.020	
AA069697	Soil	0.53	46.71	44.26	88.4	149	39.5	22.9	758	3.66	133.8	1.8	14.9	11.8	19.8	0.09	1.14	0.48	11	0.26	0.060	
AA069698	Soil	0.52	49.48	37.20	97.3	103	41.4	21.0	536	4.02	42.1	2.5	4.4	13.4	21.4	0.06	0.93	0.46	12	0.24	0.050	
AA069699	Soil	0.69	57.73	59.85	117.5	76	43.5	27.9	1016	4.52	43.1	2.9	7.3	17.2	11.9	0.11	1.20	0.68	14	0.13	0.053	
AA069700	Soil	0.60	40.54	34.63	77.2	52	31.0	24.6	641	3.33	26.8	1.8	1.5	9.1	23.4	0.04	0.72	0.48	13	0.17	0.052	



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**Project:** None Given  
**Report Date:** September 12, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000180.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA069671	Soil	12.4	41.4	1.16	15.7	0.001	<1	2.78	0.004	0.02	<0.1	2.5	<0.02	<0.02	11	<0.1	0.05	7.5	1.49	<0.1	0.06
AA069672	Soil	21.1	28.5	0.92	22.8	0.001	1	2.24	0.008	0.03	<0.1	1.7	0.03	0.03	20	<0.1	0.08	5.9	2.07	<0.1	0.16
AA069673	Soil	20.9	31.5	0.98	23.0	0.001	1	2.35	0.006	0.04	<0.1	1.9	0.03	0.03	26	<0.1	0.07	6.0	2.16	<0.1	0.17
AA069674	Soil	15.8	31.4	1.02	18.4	0.001	<1	2.40	0.006	0.03	<0.1	1.6	0.02	0.03	16	<0.1	0.06	6.4	1.48	<0.1	0.12
AA069675	Soil	34.5	35.7	1.16	18.9	<0.001	<1	2.56	0.002	0.03	<0.1	2.2	0.03	<0.02	13	0.1	0.06	6.5	1.34	<0.1	0.10
AA069676	Soil	25.7	30.6	1.15	16.4	<0.001	<1	2.25	0.002	0.03	<0.1	2.2	<0.02	<0.02	<5	<0.1	0.08	5.3	0.83	<0.1	0.10
AA069677	Soil	26.7	28.8	1.17	19.6	<0.001	<1	2.32	0.002	0.04	<0.1	2.3	<0.02	<0.02	6	0.2	0.08	5.9	0.87	<0.1	0.08
AA069678	Soil	28.3	29.6	1.16	24.5	<0.001	<1	2.27	0.002	0.03	<0.1	2.2	0.02	<0.02	7	0.1	0.08	5.9	0.90	<0.1	0.08
AA069679	Soil	28.1	28.6	1.15	24.0	<0.001	<1	2.30	0.002	0.03	<0.1	2.1	0.02	<0.02	12	0.1	0.03	5.8	0.88	<0.1	0.08
AA069680	Soil	18.1	28.8	1.00	40.1	0.001	<1	2.21	0.005	0.03	<0.1	2.5	0.05	0.04	16	0.7	0.08	5.7	1.09	<0.1	0.16
AA069681	Soil	9.9	25.8	0.84	30.6	0.003	<1	2.10	0.007	0.03	<0.1	1.5	0.03	0.09	21	0.9	0.06	5.3	0.86	<0.1	0.15
AA069682	Soil	16.0	19.1	0.19	31.8	0.007	2	1.01	0.003	0.05	0.1	0.5	0.10	0.11	59	0.6	0.05	4.9	1.63	<0.1	<0.02
AA069683	Soil	16.4	20.5	0.30	87.9	0.003	<1	1.64	0.005	0.10	0.1	1.3	0.14	0.06	32	0.3	0.07	5.5	3.01	<0.1	0.05
AA069684	Soil	16.7	9.3	0.21	82.0	<0.001	<1	0.91	0.013	0.12	<0.1	2.0	0.08	0.19	15	<0.1	0.06	2.2	2.04	<0.1	<0.02
AA069685	Soil	27.7	22.6	0.41	48.0	0.003	<1	1.37	0.007	0.07	<0.1	2.3	0.06	<0.02	22	0.2	0.07	3.4	1.70	<0.1	0.04
AA069686	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.
AA069687	Soil	22.1	16.5	0.45	67.8	0.002	<1	1.41	0.008	0.07	<0.1	2.1	0.06	0.02	19	0.3	0.04	3.6	1.94	<0.1	<0.02
AA069688	Soil	19.7	19.3	0.53	60.6	0.004	<1	1.73	0.007	0.07	<0.1	1.6	0.08	0.02	15	0.3	0.08	4.9	2.21	<0.1	0.02
AA069689	Soil	19.2	18.6	0.40	51.2	0.005	<1	1.30	0.004	0.05	<0.1	0.7	0.10	0.04	12	0.4	0.10	5.3	1.92	<0.1	<0.02
AA069690	Soil	23.1	24.3	0.86	34.7	0.004	<1	2.04	0.008	0.05	<0.1	2.0	0.07	0.03	14	0.2	0.21	5.3	2.27	<0.1	0.08
AA069691	Soil	22.8	17.4	0.51	65.6	0.001	<1	1.45	0.003	0.05	<0.1	2.7	0.10	<0.02	16	0.3	0.11	4.2	1.57	<0.1	0.07
AA069692	Soil	17.3	22.0	0.46	46.8	0.006	<1	1.65	0.005	0.06	0.1	0.9	0.07	0.04	11	0.3	0.04	5.6	0.92	<0.1	<0.02
AA069693	Soil	22.7	23.0	0.69	24.8	0.003	<1	1.83	0.006	0.04	<0.1	1.4	0.04	0.03	14	0.4	0.23	4.8	0.88	<0.1	0.08
AA069694	Soil	13.3	14.3	0.30	37.0	0.005	<1	1.40	0.006	0.04	<0.1	1.0	0.06	0.03	20	0.4	0.04	3.6	1.01	<0.1	0.03
AA069695	Soil	27.9	21.3	0.68	42.7	<0.001	<1	1.87	0.002	0.06	<0.1	1.2	0.05	<0.02	8	0.2	0.07	4.4	0.93	<0.1	0.04
AA069696	Soil	12.3	21.9	0.73	21.4	0.001	<1	1.68	0.003	0.06	<0.1	1.0	0.03	<0.02	<5	<0.1	0.03	4.1	0.86	<0.1	0.05
AA069697	Soil	19.8	20.4	0.65	38.4	0.002	<1	1.69	0.005	0.04	<0.1	2.0	0.05	0.02	10	0.3	0.09	4.1	0.80	<0.1	0.10
AA069698	Soil	19.5	25.0	0.74	28.9	<0.001	<1	1.88	0.003	0.04	<0.1	2.2	0.04	<0.02	13	0.4	0.07	4.8	0.68	<0.1	0.09
AA069699	Soil	15.2	28.0	0.84	35.9	0.002	<1	2.18	0.003	0.04	<0.1	1.6	0.04	<0.02	10	<0.1	0.08	5.2	0.75	<0.1	0.07
AA069700	Soil	14.2	20.9	0.59	35.1	0.002	<1	1.84	0.007	0.04	<0.1	1.3	0.04	0.03	18	0.1	0.06	4.7	0.96	<0.1	0.11



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**Project:** None Given  
**Report Date:** September 12, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000180.1

Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA069671	Soil	0.06	2.1	0.5	<0.05	2.4	2.57	23.5	<0.02	<1	0.4	92.6	<10	<2
AA069672	Soil	0.09	3.9	3.0	<0.05	5.2	3.17	37.5	0.02	<1	0.3	75.4	<10	<2
AA069673	Soil	0.07	4.1	1.0	<0.05	6.0	3.71	38.1	0.03	<1	0.7	76.8	<10	2
AA069674	Soil	0.06	3.0	2.0	<0.05	4.5	2.60	29.7	<0.02	<1	0.4	79.3	<10	2
AA069675	Soil	<0.02	2.7	0.6	<0.05	4.0	4.21	60.3	<0.02	<1	0.4	87.3	<10	<2
AA069676	Soil	<0.02	2.1	0.8	<0.05	6.0	4.83	43.8	0.02	<1	0.3	76.1	<10	<2
AA069677	Soil	<0.02	2.8	1.0	<0.05	5.4	4.48	46.4	<0.02	<1	0.4	81.5	<10	<2
AA069678	Soil	<0.02	3.1	0.8	<0.05	4.2	4.66	47.9	<0.02	<1	0.2	81.3	<10	<2
AA069679	Soil	<0.02	3.3	0.7	<0.05	3.6	3.96	48.8	<0.02	<1	0.3	80.0	<10	<2
AA069680	Soil	0.07	4.2	0.7	<0.05	6.1	6.49	33.6	<0.02	2	0.6	78.0	<10	3
AA069681	Soil	0.19	3.6	0.6	<0.05	6.5	4.82	17.7	0.02	<1	0.4	63.7	<10	<2
AA069682	Soil	0.28	8.4	5.6	<0.05	0.3	2.24	31.3	<0.02	<1	0.3	10.7	<10	<2
AA069683	Soil	0.48	14.0	1.4	<0.05	2.0	3.42	31.9	0.02	<1	0.5	15.1	<10	<2
AA069684	Soil	<0.02	8.3	1.0	<0.05	2.6	4.60	33.6	0.03	<1	0.6	14.7	<10	2
AA069685	Soil	0.06	6.2	7.7	<0.05	4.0	6.07	56.3	0.03	<1	0.8	28.4	<10	4
AA069686	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.
AA069687	Soil	0.05	6.7	1.3	<0.05	1.1	6.31	42.4	0.02	<1	0.8	30.2	<10	<2
AA069688	Soil	0.16	8.7	1.4	<0.05	1.0	4.96	35.9	0.03	<1	0.6	33.3	<10	2
AA069689	Soil	0.21	11.1	1.4	<0.05	0.4	1.95	34.2	<0.02	<1	0.4	23.1	<10	<2
AA069690	Soil	0.19	8.0	1.3	<0.05	3.4	4.15	41.7	0.02	<1	0.4	52.8	<10	3
AA069691	Soil	0.11	7.5	1.2	<0.05	2.2	8.06	38.6	0.03	<1	0.5	31.0	<10	4
AA069692	Soil	0.33	7.7	0.9	<0.05	0.3	2.22	33.0	<0.02	<1	0.2	33.3	<10	<2
AA069693	Soil	0.16	4.4	1.1	<0.05	3.3	2.88	43.0	0.03	<1	0.4	48.7	<10	<2
AA069694	Soil	0.25	7.0	3.5	<0.05	1.3	2.32	26.7	0.02	<1	0.3	18.9	<10	2
AA069695	Soil	0.03	6.3	0.5	<0.05	1.8	1.97	49.8	<0.02	<1	0.3	45.8	<10	<2
AA069696	Soil	<0.02	3.4	0.9	<0.05	2.9	2.35	20.8	<0.02	<1	0.2	59.2	<10	<2
AA069697	Soil	0.09	4.6	0.9	<0.05	3.3	6.90	36.2	0.03	<1	0.5	45.3	<10	<2
AA069698	Soil	0.10	3.7	0.6	<0.05	3.4	5.98	35.7	0.03	<1	0.4	57.4	<10	<2
AA069699	Soil	0.07	4.1	1.0	<0.05	2.6	3.73	29.4	0.03	<1	0.5	66.9	<10	<2
AA069700	Soil	0.13	5.1	1.1	<0.05	4.0	3.70	26.6	0.02	<1	0.5	46.7	<10	<2



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**Project:** None Given  
**Report Date:** September 12, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000180.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	%
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
AA069881	Soil	0.75	28.99	40.89	85.0	65	35.9	27.9	1365	3.46	348.7	1.8	32.0	10.5	9.9	0.11	1.06	0.31	19	0.04	0.039
AA069882	Soil	0.63	35.02	32.41	91.0	38	35.4	13.5	344	4.11	36.7	1.2	1.6	10.1	12.7	0.09	0.85	0.40	15	0.03	0.062
AA069883	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.
AA069884	Soil	0.62	32.87	34.64	88.7	51	34.8	17.0	513	3.96	23.1	1.3	2.3	7.9	14.7	0.09	0.74	0.38	16	0.03	0.065
AA069885	Soil	0.60	65.52	41.91	98.7	118	47.9	40.7	957	4.27	106.6	1.6	13.0	10.6	21.6	0.05	0.72	0.44	14	0.13	0.038
AA069886	Soil	0.89	56.38	42.40	91.9	138	44.9	25.0	722	4.08	227.9	3.1	56.2	9.0	20.5	0.04	1.51	0.46	12	0.10	0.036
AA069887	Soil	0.91	67.30	55.47	110.1	74	53.4	37.1	1074	5.03	103.5	4.6	22.1	7.7	13.0	0.08	2.04	0.62	16	0.08	0.045
AA069888	Soil	0.77	64.22	51.26	117.9	71	55.5	34.5	1095	5.33	76.8	2.3	15.3	7.7	7.6	0.11	1.19	0.58	19	0.03	0.056
AA069889	Soil	0.68	49.56	41.19	86.9	79	37.8	13.6	689	4.37	39.9	1.9	4.1	5.3	8.6	0.04	1.02	0.49	17	0.05	0.062
AA069890	Soil	1.38	94.61	72.03	111.2	109	64.3	44.2	2049	5.31	84.1	2.4	15.6	8.5	9.4	0.08	1.06	0.79	19	0.12	0.064
AA070601	Soil	0.64	50.37	44.89	95.3	34	37.0	17.3	508	4.18	14.3	1.0	1.1	6.4	5.2	0.10	0.40	0.56	26	0.03	0.055
AA070602	Soil	0.80	34.37	30.79	87.0	31	33.5	13.5	345	3.70	14.7	1.1	1.9	5.0	6.4	0.09	0.51	0.49	26	0.04	0.069
AA070603	Soil	0.81	39.46	33.93	88.3	49	35.4	16.5	505	4.03	15.3	1.3	2.1	4.3	5.5	0.06	0.53	0.50	26	0.04	0.082
AA070604	Soil	1.27	29.48	28.66	88.3	29	30.6	14.3	464	4.01	13.6	1.1	2.1	3.4	8.0	0.13	0.64	0.47	34	0.06	0.056
AA070605	Soil	0.67	49.17	44.61	93.7	49	35.8	24.0	880	3.64	13.5	1.3	1.0	6.9	5.8	0.07	0.46	0.55	20	0.04	0.059
AA070606	Soil	0.79	19.13	15.79	52.0	33	19.3	7.5	331	2.85	8.6	0.7	0.3	0.8	5.1	0.04	0.38	0.39	23	0.03	0.074
AA070607	Soil	0.82	73.60	81.59	133.1	62	44.1	49.1	1573	4.20	21.0	3.0	1.2	13.0	10.7	0.10	0.75	0.98	18	0.08	0.071
AA070608	Soil	0.90	45.85	41.13	101.2	32	35.9	21.2	592	3.87	16.2	2.1	4.0	8.4	8.4	0.09	0.59	0.53	26	0.07	0.059
AA070609	Soil	0.40	14.40	13.42	30.9	18	12.2	4.6	114	1.54	4.9	0.6	0.8	0.9	5.3	0.03	0.23	0.22	15	0.04	0.045
AA070610	Soil	0.44	14.28	13.53	41.6	46	15.8	6.3	212	2.26	4.7	0.7	0.5	1.1	6.6	0.07	0.33	0.27	17	0.06	0.053
AA070611	Soil	0.37	12.98	14.96	35.9	38	11.7	5.7	424	2.06	4.6	0.7	1.7	0.9	5.2	0.07	0.29	0.24	14	0.04	0.064
AA070612	Soil	0.37	18.92	18.49	55.1	43	21.9	8.6	231	3.00	5.5	0.7	0.8	4.1	4.0	0.06	0.41	0.33	13	0.03	0.051
AA070613	Soil	0.39	24.27	24.36	65.0	41	27.7	11.4	328	3.38	6.6	0.9	1.7	7.3	5.1	0.06	0.47	0.35	13	0.05	0.049
AA070614	Soil	0.28	28.95	31.13	85.9	47	33.1	14.1	709	3.71	11.4	2.0	2.9	9.2	25.9	0.09	0.78	0.37	11	0.27	0.047
AA070615	Soil	0.26	29.42	28.77	75.5	126	34.4	13.1	506	3.75	7.3	1.0	1.8	13.4	13.2	0.06	0.48	0.37	10	0.18	0.052
AA070616	Soil	0.26	30.97	35.32	97.2	161	37.6	15.1	379	3.63	5.2	1.0	1.0	16.6	62.0	0.07	0.31	0.43	7	1.26	0.067
AA070617	Soil	0.29	19.83	27.00	65.3	63	24.0	10.6	429	3.14	4.1	0.8	<0.2	6.0	21.0	0.10	0.24	0.35	10	0.32	0.070
AA070618	Soil	0.25	26.19	26.54	82.5	25	33.7	15.8	356	3.55	10.8	0.6	0.5	8.1	4.0	0.05	0.38	0.40	15	0.02	0.032
AA070619	Soil	0.29	44.82	35.27	97.7	46	46.1	19.7	501	4.17	12.5	0.9	2.1	13.2	7.0	0.05	0.43	0.50	13	0.06	0.037
AA070620	Soil	0.23	15.36	18.84	56.7	82	21.3	8.8	187	2.69	5.2	0.7	0.9	5.9	4.2	0.08	0.24	0.28	10	0.03	0.051



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**Project:** None Given  
**Report Date:** September 12, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000180.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
AA069881	Soil	31.6	21.2	0.60	57.3	0.009	<1	1.61	0.002	0.04	<0.1	1.8	0.06	<0.02	25	0.2	0.05	4.2	1.12	<0.1	0.04
AA069882	Soil	30.4	26.2	0.72	28.2	0.003	<1	1.91	0.002	0.04	<0.1	1.2	0.05	0.03	22	0.1	0.04	5.0	1.03	<0.1	0.18
AA069883	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.
AA069884	Soil	27.5	25.6	0.64	29.4	0.002	<1	1.74	0.002	0.05	<0.1	0.9	0.05	0.04	42	0.2	0.04	5.1	1.33	<0.1	0.13
AA069885	Soil	31.2	31.4	1.02	22.7	<0.001	<1	2.24	0.003	0.04	<0.1	2.2	0.04	<0.02	18	<0.1	0.07	5.5	1.82	<0.1	0.06
AA069886	Soil	26.3	25.9	0.87	20.2	<0.001	<1	1.97	0.003	0.04	<0.1	1.9	0.04	<0.02	14	0.2	0.07	4.6	1.99	<0.1	0.07
AA069887	Soil	27.2	34.1	1.10	18.9	<0.001	<1	2.46	0.003	0.03	<0.1	2.1	0.04	0.03	13	0.3	0.11	6.2	2.99	<0.1	0.12
AA069888	Soil	23.7	41.3	1.23	23.2	0.001	<1	2.80	0.004	0.03	<0.1	2.4	0.03	0.03	29	0.1	0.12	7.4	2.98	<0.1	0.22
AA069889	Soil	19.2	32.0	0.92	24.0	0.001	<1	2.25	0.004	0.03	<0.1	1.6	0.04	0.04	26	0.1	0.08	6.3	2.21	<0.1	0.12
AA069890	Soil	22.3	37.4	1.41	17.9	0.001	<1	2.77	0.004	0.03	<0.1	3.5	0.04	<0.02	17	<0.1	0.19	6.8	1.80	<0.1	0.06
AA070601	Soil	15.1	30.9	0.79	28.7	0.008	<1	2.22	0.002	0.03	0.1	1.5	0.05	0.03	36	0.2	0.09	6.3	1.05	<0.1	0.08
AA070602	Soil	14.9	29.0	0.73	27.6	0.011	<1	2.07	0.003	0.03	0.1	1.3	0.06	0.03	25	0.2	0.05	5.7	0.89	<0.1	0.05
AA070603	Soil	13.8	30.3	0.78	25.7	0.009	<1	2.03	0.003	0.04	0.1	1.4	0.06	0.05	56	0.4	0.07	6.4	0.86	<0.1	0.04
AA070604	Soil	20.8	30.2	0.65	37.5	0.020	<1	1.98	0.003	0.05	0.2	1.6	0.09	0.03	32	0.4	0.04	6.2	1.20	<0.1	<0.02
AA070605	Soil	15.4	26.0	0.70	26.8	0.007	<1	2.05	0.005	0.03	<0.1	1.5	0.06	0.02	15	<0.1	0.07	5.5	0.86	<0.1	0.06
AA070606	Soil	12.3	18.9	0.38	25.2	0.011	<1	1.40	0.008	0.04	0.1	0.8	0.06	0.05	20	0.3	0.04	4.9	0.93	<0.1	<0.02
AA070607	Soil	17.5	26.0	0.79	49.4	0.003	<1	2.35	0.004	0.03	<0.1	1.9	0.07	<0.02	18	<0.1	0.14	6.1	1.18	<0.1	0.09
AA070608	Soil	25.0	29.4	0.78	38.3	0.018	<1	2.12	0.003	0.04	0.1	2.2	0.07	<0.02	11	<0.1	0.06	5.9	1.01	<0.1	0.05
AA070609	Soil	12.8	11.7	0.26	23.5	0.012	<1	1.12	0.018	0.03	0.1	0.9	0.06	0.02	16	<0.1	<0.02	3.4	0.65	<0.1	<0.02
AA070610	Soil	17.9	15.2	0.33	34.9	0.007	<1	1.26	0.009	0.03	<0.1	0.8	0.06	0.03	28	<0.1	0.04	4.1	0.73	<0.1	<0.02
AA070611	Soil	13.7	10.8	0.22	35.6	0.005	<1	1.10	0.012	0.03	<0.1	0.5	0.05	0.05	25	<0.1	0.05	3.6	0.67	<0.1	<0.02
AA070612	Soil	19.1	15.6	0.41	30.2	0.004	<1	1.37	0.005	0.02	<0.1	1.2	0.06	0.03	22	<0.1	<0.02	4.1	0.51	<0.1	0.06
AA070613	Soil	25.3	18.6	0.53	30.8	0.003	<1	1.53	0.003	0.03	<0.1	1.7	0.05	<0.02	24	<0.1	0.04	4.1	0.53	<0.1	0.09
AA070614	Soil	21.7	18.8	0.58	27.3	0.002	<1	1.56	0.004	0.03	<0.1	2.5	0.03	0.02	9	<0.1	<0.02	4.2	0.70	<0.1	0.05
AA070615	Soil	30.6	19.1	0.62	21.7	0.002	<1	1.57	0.002	0.03	<0.1	4.0	0.03	<0.02	31	<0.1	<0.02	3.8	0.34	<0.1	0.06
AA070616	Soil	43.9	15.8	0.55	21.9	0.002	<1	1.24	0.002	0.03	<0.1	3.4	0.04	<0.02	33	<0.1	0.03	3.3	0.43	<0.1	0.06
AA070617	Soil	29.7	14.7	0.37	28.1	0.003	<1	1.22	0.004	0.03	<0.1	2.3	0.04	0.03	32	<0.1	0.04	3.3	0.50	<0.1	0.05
AA070618	Soil	18.3	25.0	0.70	45.3	0.002	<1	2.07	0.005	0.04	<0.1	1.3	0.04	<0.02	16	<0.1	0.03	5.8	0.57	<0.1	0.09
AA070619	Soil	27.2	26.9	0.80	31.4	0.001	<1	2.13	0.002	0.05	<0.1	2.0	0.03	<0.02	29	<0.1	0.05	5.3	0.50	<0.1	0.07
AA070620	Soil	22.2	16.1	0.39	27.3	0.002	<1	1.29	0.004	0.03	<0.1	1.3	0.04	<0.02	23	<0.1	0.06	3.5	0.47	<0.1	0.04



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**Project:** None Given  
**Report Date:** September 12, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000180.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA069881	Soil	0.19	4.9	0.4	<0.05	1.5	5.42	58.6	0.03	<1	0.4	38.8	<10	<2
AA069882	Soil	0.12	4.9	2.7	<0.05	6.0	2.76	55.7	<0.02	<1	0.4	52.4	<10	<2
AA069883	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.
AA069884	Soil	0.12	5.8	1.5	<0.05	4.5	2.60	49.5	<0.02	<1	0.4	49.6	<10	<2
AA069885	Soil	<0.02	3.1	1.1	<0.05	4.0	4.54	55.3	<0.02	<1	0.4	72.7	<10	<2
AA069886	Soil	<0.02	3.7	0.9	<0.05	3.6	4.13	46.2	<0.02	<1	0.4	57.8	<10	<2
AA069887	Soil	<0.02	3.1	1.2	<0.05	4.7	3.63	46.6	<0.02	<1	0.7	79.5	<10	<2
AA069888	Soil	0.06	3.1	2.4	<0.05	7.8	2.81	42.5	0.04	<1	0.6	100.0	<10	<2
AA069889	Soil	0.05	2.7	0.5	<0.05	4.5	2.39	32.9	<0.02	2	0.4	72.2	<10	<2
AA069890	Soil	<0.02	2.0	0.8	<0.05	6.5	6.30	41.7	0.02	<1	0.6	107.5	<10	<2
AA070601	Soil	0.34	3.9	0.2	<0.05	3.4	2.67	27.4	<0.02	<1	0.4	76.2	<10	<2
AA070602	Soil	0.35	5.1	0.3	<0.05	1.9	2.91	27.3	<0.02	3	0.3	63.6	<10	<2
AA070603	Soil	0.27	5.9	0.3	<0.05	1.4	2.55	26.2	<0.02	1	0.5	67.5	<10	<2
AA070604	Soil	0.51	7.2	0.5	<0.05	0.4	3.56	38.8	<0.02	<1	0.3	48.1	<10	<2
AA070605	Soil	0.20	4.7	0.3	<0.05	1.8	3.06	29.0	0.03	2	0.4	63.8	<10	<2
AA070606	Soil	0.30	6.5	0.3	<0.05	0.2	1.85	22.9	0.02	<1	0.3	29.4	<10	<2
AA070607	Soil	0.08	3.7	0.3	<0.05	3.8	5.50	35.4	0.03	<1	0.9	68.6	<10	<2
AA070608	Soil	0.31	5.6	0.4	<0.05	1.2	5.61	47.8	<0.02	<1	0.4	60.9	<10	<2
AA070609	Soil	0.20	4.3	0.3	<0.05	0.5	2.60	26.3	<0.02	1	0.2	20.0	<10	<2
AA070610	Soil	0.18	5.0	0.2	<0.05	0.5	2.85	34.3	<0.02	<1	0.3	28.4	<10	<2
AA070611	Soil	0.15	5.5	0.4	<0.05	0.8	3.27	27.3	<0.02	<1	0.4	18.7	<10	<2
AA070612	Soil	0.19	4.5	0.2	<0.05	2.2	3.14	38.6	<0.02	<1	0.3	38.4	<10	<2
AA070613	Soil	0.17	4.7	0.2	<0.05	3.2	4.81	53.2	0.02	<1	0.4	46.1	<10	<2
AA070614	Soil	0.06	3.5	0.2	<0.05	2.3	11.59	44.6	0.03	<1	0.4	56.9	<10	<2
AA070615	Soil	0.04	2.5	0.2	<0.05	2.3	16.19	59.8	0.02	<1	0.5	52.2	<10	<2
AA070616	Soil	0.03	2.3	0.1	<0.05	3.4	12.17	80.4	0.02	1	0.5	40.1	<10	<2
AA070617	Soil	0.14	4.0	0.3	<0.05	1.4	9.68	62.4	0.03	1	0.4	33.4	<10	<2
AA070618	Soil	0.11	4.4	0.1	<0.05	3.3	2.12	34.3	<0.02	<1	0.3	65.0	<10	<2
AA070619	Soil	0.02	3.7	0.2	<0.05	3.0	4.84	53.0	0.02	<1	0.5	72.5	<10	<2
AA070620	Soil	0.12	4.8	0.2	<0.05	1.9	4.13	48.4	<0.02	1	0.3	37.8	<10	<2



# CERTIFICATE OF ANALYSIS

WHI16000180.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
AA070621	Soil	0.37	20.03	23.33	66.9	81	24.8	10.4	575	3.34	6.7	3.6	0.4	7.2	68.6	0.11	0.53	0.34	9	0.59	0.081
AA070622	Soil	0.28	15.65	13.40	51.9	160	19.1	7.0	180	2.51	7.2	0.9	0.9	2.8	9.1	0.05	0.26	0.27	12	0.08	0.059
AA070623	Soil	0.33	11.28	10.49	52.5	135	17.3	6.1	182	2.22	6.1	0.6	0.3	1.9	6.1	0.08	0.20	0.20	11	0.05	0.052
AA070624	Soil	0.47	41.05	40.22	96.6	121	38.7	20.9	744	4.31	9.3	1.7	2.1	13.7	27.1	0.12	0.82	0.52	11	0.44	0.080
AA070625	Soil	0.44	46.91	44.64	108.0	102	44.5	24.5	687	4.51	7.8	1.6	1.6	18.7	28.5	0.09	0.71	0.52	11	0.38	0.067
AA070626	Soil	0.39	45.02	43.73	101.3	116	41.6	22.2	648	4.28	12.1	1.3	2.2	18.8	23.5	0.09	0.93	0.49	10	0.31	0.068
AA070627	Soil	0.37	45.92	35.07	100.1	121	43.4	19.9	546	4.03	30.3	3.8	4.1	11.5	29.3	0.09	0.54	0.49	14	0.26	0.049
AA070628	Soil	0.37	18.44	16.09	64.7	106	25.5	9.5	218	2.73	17.1	3.9	1.3	6.0	22.4	0.02	0.22	0.32	12	0.18	0.041
AA070629	Soil	0.63	42.54	22.84	83.6	154	38.9	14.5	372	3.72	29.0	11.5	4.2	10.7	37.2	0.05	0.48	0.51	13	0.31	0.061
AA070630	Soil	0.30	11.05	14.93	50.8	125	17.2	6.0	216	2.62	17.0	0.5	1.1	3.6	4.3	0.06	0.22	0.28	13	0.02	0.085
AA070701	Soil	0.63	109.60	75.49	137.5	260	66.6	52.9	756	5.51	33.2	1.9	4.2	31.1	18.1	0.10	0.67	0.86	13	0.15	0.021
AA070702	Soil	0.61	38.88	30.32	83.5	151	47.6	19.4	230	4.36	15.4	2.1	1.1	17.9	172.0	0.07	1.05	0.29	4	4.88	0.066
AA070703	Soil	0.43	53.46	32.29	102.3	117	48.2	25.1	476	4.23	15.9	1.3	1.7	15.9	96.2	0.12	0.74	0.48	8	2.46	0.044
AA070704	Soil	0.49	45.37	35.79	106.2	149	42.4	18.8	417	4.36	15.4	1.7	2.3	13.1	99.2	0.07	1.31	0.52	9	2.15	0.059
AA070705	Soil	0.42	32.30	21.55	79.5	166	30.8	11.9	262	3.17	10.1	1.9	0.9	3.2	137.7	0.26	0.48	0.36	7	2.45	0.122
AA070706	Soil	0.32	26.79	28.14	95.6	138	30.3	12.2	412	3.17	11.8	2.2	<0.2	1.7	184.6	0.15	0.61	0.44	7	2.78	0.097
AA070707	Soil	0.53	38.93	35.43	85.7	173	39.5	17.6	447	4.05	21.3	2.3	1.3	7.6	153.9	0.12	1.24	0.55	9	2.77	0.099
AA070708	Soil	0.56	58.85	43.12	83.0	252	51.6	21.1	414	5.03	67.4	2.9	0.6	10.4	148.4	0.19	1.04	0.59	7	2.78	0.083
AA070709	Soil	0.85	55.51	24.83	261.4	272	73.1	20.5	250	9.04	16.7	7.2	<0.2	13.0	186.0	0.37	0.81	0.47	6	2.81	0.155
AA070710	Soil	0.26	12.60	13.35	33.5	24	17.8	7.5	385	2.63	22.9	1.3	0.5	9.4	5.4	0.02	0.56	0.25	8	0.04	0.038
AA069901	Soil	4.40	50.57	47.99	91.1	79	34.3	23.8	1375	4.05	241.9	1.8	14.4	2.5	12.9	0.38	3.05	0.63	16	0.15	0.108
AA069902	Soil	1.15	28.00	29.70	77.9	41	28.1	13.6	664	3.64	40.8	1.2	3.5	2.3	9.1	0.12	0.72	0.52	26	0.04	0.082
AA069903	Soil	0.33	24.83	34.85	63.2	69	27.1	15.7	336	2.71	72.9	2.3	26.3	17.8	23.9	0.04	0.85	0.41	10	0.12	0.052
AA069904	Soil	0.29	53.50	29.25	82.6	35	41.2	23.8	494	3.72	61.6	0.8	14.5	12.7	15.2	0.02	0.71	0.79	11	0.07	0.032
AA069905	Soil	0.79	24.06	31.60	69.7	52	26.4	11.1	373	3.13	199.7	1.2	11.2	6.2	8.0	0.03	1.05	0.42	18	0.02	0.059
AA069906	Soil	0.35	40.57	76.56	75.2	234	36.6	27.3	421	2.91	186.8	3.5	89.1	19.6	34.9	0.02	1.55	0.58	6	0.13	0.051
AA069907	Soil	0.53	39.14	52.37	76.6	103	31.4	24.2	696	3.06	108.3	3.1	25.7	12.5	24.2	0.08	0.93	0.55	10	0.08	0.054
AA069908	Soil	15.80	55.35	41.70	98.3	477	46.7	27.9	594	3.45	155.6	3.9	14.1	13.4	43.3	0.80	3.59	0.52	13	0.48	0.050
AA069909	Soil	7.24	46.58	42.33	85.3	259	41.1	25.3	620	3.36	282.3	2.2	49.8	14.8	55.7	0.18	3.09	0.51	7	0.74	0.061
AA069910	Soil	9.69	53.93	36.80	96.0	240	45.0	23.8	654	3.94	231.1	2.0	26.3	12.1	22.8	0.27	2.65	0.53	12	0.27	0.052



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**Project:** None Given  
**Report Date:** September 12, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000180.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
AA070621	Soil	17.7	16.7	0.47	33.6	0.002	<1	1.46	0.003	0.04	<0.1	2.6	0.04	0.04	29	0.1	0.03	3.8	0.55	<0.1	0.16
AA070622	Soil	14.1	17.2	0.39	32.0	0.003	<1	1.41	0.008	0.04	<0.1	0.8	0.04	0.03	24	<0.1	0.04	4.4	0.50	<0.1	0.06
AA070623	Soil	11.3	15.2	0.36	27.5	0.004	<1	1.19	0.010	0.04	<0.1	0.6	0.03	0.03	19	<0.1	0.03	3.8	0.41	<0.1	0.02
AA070624	Soil	14.0	21.2	0.63	28.6	0.002	<1	1.70	0.003	0.05	<0.1	3.9	0.04	0.03	31	<0.1	0.05	4.5	0.67	<0.1	0.18
AA070625	Soil	17.9	24.3	0.76	25.0	0.002	<1	1.86	0.003	0.04	<0.1	3.7	0.03	0.02	31	<0.1	0.03	4.9	0.75	<0.1	0.16
AA070626	Soil	17.4	22.1	0.73	21.9	0.001	<1	1.69	0.003	0.03	<0.1	3.9	0.03	0.02	39	<0.1	0.04	4.4	0.55	<0.1	0.16
AA070627	Soil	18.3	28.3	0.83	32.1	0.002	<1	2.03	0.003	0.05	<0.1	2.1	0.03	<0.02	20	0.2	0.09	5.5	0.50	<0.1	0.08
AA070628	Soil	13.8	20.2	0.52	45.5	0.004	<1	1.65	0.012	0.06	<0.1	1.3	0.04	0.03	16	0.1	<0.02	4.3	0.56	<0.1	0.09
AA070629	Soil	13.2	27.6	0.73	40.3	0.002	<1	2.07	0.005	0.06	<0.1	1.8	0.04	0.04	8	0.8	0.04	5.5	0.80	<0.1	0.09
AA070630	Soil	14.4	17.4	0.40	42.9	0.004	<1	1.45	0.006	0.06	<0.1	0.9	0.04	0.04	19	<0.1	0.02	4.6	0.56	<0.1	0.07
AA070701	Soil	11.2	30.7	0.85	16.8	<0.001	<1	2.11	0.002	0.03	<0.1	5.4	0.03	<0.02	29	0.3	0.08	5.2	1.07	<0.1	0.18
AA070702	Soil	18.1	5.5	0.17	36.8	0.001	<1	0.68	0.025	0.05	<0.1	2.7	0.05	0.19	62	0.3	0.06	1.2	0.71	<0.1	0.17
AA070703	Soil	8.8	17.2	0.51	20.4	0.001	<1	1.28	0.003	0.03	<0.1	2.9	0.02	0.04	11	0.1	0.05	3.1	0.56	<0.1	0.13
AA070704	Soil	13.0	14.2	0.44	30.7	0.002	2	1.16	0.003	0.03	<0.1	3.4	0.03	0.03	18	<0.1	0.07	2.8	0.38	<0.1	0.11
AA070705	Soil	22.8	6.9	0.21	56.9	0.005	3	0.96	0.014	0.03	<0.1	2.4	0.06	0.08	43	0.7	0.05	1.7	0.29	<0.1	0.19
AA070706	Soil	34.1	4.3	0.11	47.8	0.002	3	0.50	0.009	0.03	<0.1	2.9	0.04	0.06	68	0.4	0.05	1.1	0.26	<0.1	<0.02
AA070707	Soil	23.8	11.1	0.35	39.9	0.004	4	0.97	0.004	0.05	<0.1	3.4	0.05	0.04	63	<0.1	0.05	2.2	0.51	<0.1	0.07
AA070708	Soil	42.7	8.8	0.46	36.7	0.002	3	0.92	0.006	0.04	<0.1	5.1	0.07	0.09	119	0.3	0.12	1.7	0.68	<0.1	0.09
AA070709	Soil	45.1	6.4	0.11	58.1	0.002	4	0.56	0.004	0.06	<0.1	9.1	0.09	0.03	197	1.9	0.04	0.9	0.78	0.1	0.04
AA070710	Soil	13.5	11.5	0.39	22.7	0.001	<1	1.11	0.003	0.02	<0.1	1.1	0.05	<0.02	<5	0.1	<0.02	2.8	0.56	<0.1	0.07
AA069901	Soil	14.2	15.2	0.45	60.5	0.002	2	1.41	0.003	0.05	<0.1	1.9	0.14	0.05	46	0.5	0.07	4.0	2.52	<0.1	0.13
AA069902	Soil	21.5	25.3	0.67	49.7	0.008	2	1.83	0.003	0.05	0.1	1.2	0.09	0.03	20	0.1	0.08	5.6	1.54	<0.1	<0.02
AA069903	Soil	27.7	15.3	0.46	20.4	0.005	<1	1.10	0.002	0.03	<0.1	1.4	0.03	<0.02	<5	<0.1	0.03	3.2	0.91	<0.1	0.15
AA069904	Soil	30.6	20.5	1.00	24.2	<0.001	1	1.96	0.001	0.04	<0.1	1.2	0.03	<0.02	7	<0.1	0.08	4.6	1.38	<0.1	0.08
AA069905	Soil	26.3	19.4	0.48	33.3	0.006	1	1.41	0.003	0.04	0.1	1.1	0.08	0.04	20	0.2	0.03	4.2	1.01	<0.1	0.05
AA069906	Soil	29.4	11.9	0.38	32.0	<0.001	<1	1.05	0.002	0.05	<0.1	1.5	0.04	<0.02	11	<0.1	0.05	2.6	1.92	<0.1	0.11
AA069907	Soil	29.3	16.9	0.49	28.6	0.001	1	1.39	0.003	0.05	<0.1	1.4	0.05	0.03	61	0.1	0.06	3.9	0.98	0.1	0.05
AA069908	Soil	14.4	11.4	0.62	31.0	0.001	<1	1.12	0.004	0.05	<0.1	3.6	0.19	0.05	28	0.8	0.06	2.6	1.63	0.1	0.28
AA069909	Soil	17.6	9.8	0.65	26.7	0.001	<1	0.88	0.003	0.04	<0.1	2.9	0.09	0.03	5	0.2	0.05	2.1	1.03	<0.1	0.17
AA069910	Soil	18.6	18.8	0.85	19.3	<0.001	<1	1.59	0.002	0.04	<0.1	3.5	0.10	0.03	12	0.4	0.05	3.8	0.88	0.1	0.18



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**Project:** None Given  
**Report Date:** September 12, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000180.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA070621	Soil	0.10	5.2	0.2	<0.05	4.4	13.88	36.2	0.04	<1	0.4	41.0	<10	<2
AA070622	Soil	0.16	4.8	0.2	<0.05	1.8	1.80	26.5	<0.02	<1	0.2	37.4	<10	<2
AA070623	Soil	0.15	4.7	0.3	<0.05	1.1	1.33	20.3	<0.02	<1	0.1	33.0	<10	<2
AA070624	Soil	0.08	3.6	0.6	<0.05	6.5	13.13	28.4	0.04	<1	0.5	54.3	<10	<2
AA070625	Soil	0.19	2.8	0.4	<0.05	8.7	10.21	34.9	<0.02	<1	0.6	63.6	<10	<2
AA070626	Soil	0.02	2.2	0.5	<0.05	7.9	10.41	34.3	0.03	2	0.6	60.9	<10	<2
AA070627	Soil	0.04	3.4	0.4	<0.05	2.8	4.67	33.4	<0.02	<1	0.3	76.3	<10	<2
AA070628	Soil	0.14	4.7	0.2	<0.05	2.6	3.67	26.4	<0.02	2	0.2	52.3	<10	<2
AA070629	Soil	0.09	4.9	0.1	<0.05	3.2	4.28	23.8	0.03	1	0.4	72.7	<10	<2
AA070630	Soil	0.19	5.9	0.2	<0.05	2.2	0.99	26.6	<0.02	1	0.1	32.8	<10	<2
AA070701	Soil	<0.02	2.3	0.1	<0.05	12.2	11.68	21.0	0.04	1	0.6	77.3	<10	<2
AA070702	Soil	0.02	2.7	0.1	<0.05	17.0	7.16	32.6	0.03	<1	0.3	7.4	<10	3
AA070703	Soil	<0.02	1.7	0.2	<0.05	12.3	7.69	17.7	0.03	<1	0.2	40.0	<10	<2
AA070704	Soil	0.09	1.9	0.2	<0.05	5.3	11.15	24.1	0.04	<1	0.4	31.9	<10	<2
AA070705	Soil	0.30	2.9	0.5	<0.05	6.7	10.38	39.3	0.04	<1	0.5	13.0	<10	<2
AA070706	Soil	0.08	2.7	0.3	<0.05	1.4	16.55	59.6	0.05	<1	0.4	3.4	<10	2
AA070707	Soil	0.15	3.2	0.9	<0.05	3.3	11.73	43.0	0.03	2	0.8	22.3	<10	3
AA070708	Soil	0.10	3.3	0.3	<0.05	5.1	14.70	70.2	0.06	<1	0.6	20.0	<10	2
AA070709	Soil	0.07	4.0	0.4	<0.05	3.5	24.23	62.8	0.08	<1	0.7	3.7	<10	<2
AA070710	Soil	0.06	3.0	0.2	<0.05	2.0	2.39	28.8	0.02	<1	0.3	27.5	<10	<2
AA069901	Soil	0.08	7.1	0.2	<0.05	3.9	6.27	26.6	0.02	<1	0.4	24.6	<10	<2
AA069902	Soil	0.27	7.6	0.4	<0.05	0.9	3.42	39.9	<0.02	<1	0.2	43.5	<10	<2
AA069903	Soil	0.04	2.6	0.1	<0.05	10.8	4.57	51.0	<0.02	<1	0.5	29.7	<10	3
AA069904	Soil	<0.02	2.7	0.3	<0.05	5.8	2.79	50.3	<0.02	<1	0.4	62.2	<10	<2
AA069905	Soil	0.27	5.6	0.3	<0.05	2.2	2.94	50.1	<0.02	<1	0.3	30.8	<10	<2
AA069906	Soil	0.03	3.8	<0.1	<0.05	6.7	6.63	56.5	<0.02	<1	0.4	22.7	<10	<2
AA069907	Soil	0.05	4.5	0.2	<0.05	2.4	5.13	55.6	<0.02	1	0.5	34.7	<10	<2
AA069908	Soil	<0.02	2.9	0.1	<0.05	21.5	8.70	28.2	<0.02	4	0.6	23.4	<10	<2
AA069909	Soil	0.03	2.3	0.1	<0.05	15.4	7.72	33.2	<0.02	3	0.3	20.5	<10	<2
AA069910	Soil	<0.02	2.2	0.1	<0.05	12.5	7.57	34.1	0.04	1	0.8	50.5	<10	<2



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**Project:** None Given  
**Report Date:** September 12, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000180.1

Method Analyte	Unit	MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
AA069911	Soil		0.42	48.04	20.40	114.7	37	54.5	20.8	692	5.32	46.9	2.3	13.3	10.4	6.5	0.01	0.49	0.41	19	0.07	0.033
AA069912	Soil		0.90	49.38	34.32	74.8	113	33.6	17.7	589	3.24	165.5	3.1	25.7	4.6	17.4	0.04	1.29	0.45	12	0.11	0.050
AA069913	Soil		0.45	53.09	29.48	118.1	65	54.7	20.9	863	5.43	60.6	2.8	12.3	9.9	7.7	0.02	0.72	0.45	20	0.07	0.038
AA069914	Soil		0.64	49.61	30.74	105.3	95	46.9	17.9	690	4.62	65.7	2.6	11.5	8.3	10.0	0.04	0.86	0.51	17	0.08	0.042
AA069915	Soil		0.76	48.01	29.20	105.0	99	48.5	16.1	643	4.65	60.5	2.5	11.9	8.4	9.9	0.06	0.85	0.52	17	0.08	0.044
AA069916	Soil		0.87	51.94	67.56	109.9	64	51.8	28.5	1535	4.89	132.4	1.9	27.3	5.7	8.0	0.05	0.73	0.60	19	0.08	0.062
AA069917	Soil		0.61	53.60	34.30	110.2	70	52.7	23.3	1016	5.00	63.8	2.2	9.0	8.2	8.0	0.05	0.70	0.55	19	0.07	0.047
AA069918	Soil		0.72	55.91	31.96	112.2	38	52.8	20.6	1208	5.21	94.2	2.1	19.7	7.4	6.9	0.04	0.79	0.57	20	0.06	0.052
AA069919	Soil		0.64	50.52	28.67	98.3	78	49.1	18.2	993	4.62	76.7	1.7	10.7	4.8	7.9	0.05	0.76	0.57	19	0.09	0.066
AA069920	Soil		0.50	49.98	31.23	109.2	44	55.3	25.8	1120	4.97	24.5	1.4	2.8	8.6	6.5	0.05	0.41	0.50	19	0.07	0.058
AA069921	Soil		0.76	35.97	27.67	81.8	67	39.1	15.0	871	5.33	38.4	1.0	2.7	7.1	4.8	0.07	0.54	0.56	24	0.03	0.076
AA069922	Soil		0.70	32.23	25.33	73.3	119	34.6	13.9	1098	4.09	21.4	1.3	1.5	4.1	5.4	0.04	0.42	0.43	23	0.02	0.063
AA069923	Soil		0.58	35.21	30.13	90.7	137	45.4	18.9	1288	4.58	25.4	1.7	1.7	6.0	5.0	0.07	0.43	0.55	21	0.04	0.079
AA069924	Soil		0.77	38.25	54.43	63.3	124	28.4	15.8	1267	4.07	22.5	0.9	0.5	4.5	2.7	0.06	0.28	0.58	19	0.01	0.088
AA069925	Soil		0.78	54.12	31.95	55.9	76	26.0	13.9	3957	4.36	10.3	0.7	0.4	4.2	4.6	0.05	0.25	0.46	23	0.02	0.071
AA069926	Soil		0.62	77.21	63.93	95.4	75	53.0	26.1	2115	5.04	20.5	0.9	1.1	6.5	4.3	0.06	0.24	0.96	22	0.04	0.077
AA069927	Soil		0.63	60.89	44.40	74.6	52	38.6	21.7	1437	4.29	36.2	0.9	2.1	4.2	4.8	0.07	0.26	0.81	20	0.04	0.089
AA069928	Soil		1.25	82.05	57.95	100.9	59	54.7	32.7	2245	5.13	33.2	1.8	1.5	6.9	7.3	0.07	0.86	0.91	20	0.09	0.070
AA069929	Soil		0.82	73.77	45.32	98.4	91	50.6	31.7	1619	4.99	42.9	1.1	1.0	5.0	6.7	0.05	0.58	0.96	19	0.11	0.080
AA069930	Soil		1.16	55.68	30.15	75.0	260	35.4	29.3	2907	4.90	23.0	1.3	0.8	6.3	3.9	0.11	0.45	0.79	25	0.02	0.095
AA069641	Soil		0.82	29.17	16.89	57.1	28	27.2	14.1	432	3.46	29.4	0.8	4.6	7.4	3.6	0.05	1.09	0.84	15	0.01	0.061
AA069642	Soil		0.71	47.24	40.18	86.7	77	30.5	21.7	875	3.31	40.1	1.0	2.6	9.6	7.3	0.05	0.90	0.66	14	0.04	0.051
AA069643	Soil		0.52	34.99	26.00	122.5	90	28.0	8.7	197	2.66	19.7	1.3	4.1	8.3	16.8	0.28	0.58	0.45	17	0.12	0.081
AA069644	Soil		0.62	27.99	22.16	51.7	37	17.2	7.6	278	2.53	53.5	1.1	3.5	1.9	5.3	0.04	0.90	0.37	14	0.03	0.081
AA069645	Soil		0.59	85.05	47.87	111.9	205	39.5	63.8	876	4.10	151.2	3.4	51.3	14.7	8.0	0.07	2.35	0.47	11	<0.01	0.061
AA069646	Soil		0.23	72.27	70.81	89.0	78	45.3	39.7	1641	3.87	31.4	0.6	3.3	10.8	17.5	0.04	0.77	0.68	14	0.11	0.032
AA069647	Soil		2.20	39.52	21.25	84.4	40	40.5	17.4	543	3.56	38.9	0.9	10.6	11.7	11.2	0.07	0.87	0.39	17	0.10	0.056
AA069648	Soil		16.55	55.74	29.44	93.5	573	45.2	18.2	684	3.55	73.2	1.5	5.0	7.4	22.6	0.61	3.44	0.51	15	0.85	0.054
AA069649	Soil		1.19	36.15	26.82	82.3	29	40.7	16.9	707	3.91	38.2	0.7	1.8	7.6	5.8	0.06	0.67	0.43	18	0.04	0.046
AA069650	Soil		1.98	30.01	21.57	63.2	203	24.3	10.9	472	3.22	43.0	0.7	4.4	2.8	4.0	0.13	0.78	0.39	17	0.03	0.098



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**Project:** None Given  
**Report Date:** September 12, 2016

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**Part:** 2 of 3

# CERTIFICATE OF ANALYSIS

# WHI16000180.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA069911	Soil	4.2	42.4	1.21	13.4	<0.001	<1	2.90	0.004	0.03	<0.1	2.7	0.02	<0.02	<5	<0.1	0.04	8.3	1.50	0.1	0.07
AA069912	Soil	17.7	20.8	0.64	32.2	0.002	<1	1.73	0.011	0.04	<0.1	1.6	0.04	0.03	9	0.2	0.07	4.8	1.89	0.1	0.08
AA069913	Soil	11.3	41.9	1.26	13.6	<0.001	<1	2.93	0.004	0.03	<0.1	2.9	0.02	<0.02	<5	<0.1	0.05	8.2	1.67	0.2	0.05
AA069914	Soil	20.7	34.1	1.10	16.3	<0.001	<1	2.48	0.003	0.03	<0.1	2.2	0.03	<0.02	16	<0.1	0.06	6.7	1.88	0.2	0.12
AA069915	Soil	20.6	34.1	1.12	16.6	<0.001	<1	2.57	0.003	0.03	<0.1	2.3	0.03	<0.02	18	<0.1	0.05	7.0	1.98	<0.1	0.13
AA069916	Soil	19.3	34.9	1.16	19.8	0.001	<1	2.53	0.003	0.03	<0.1	2.2	0.02	0.03	6	<0.1	0.13	7.1	1.41	0.2	0.13
AA069917	Soil	23.4	35.9	1.25	15.8	0.001	<1	2.68	0.004	0.03	<0.1	2.6	0.02	<0.02	7	<0.1	0.12	7.5	1.48	0.1	0.08
AA069918	Soil	21.7	38.0	1.30	15.5	0.001	<1	2.78	0.004	0.03	<0.1	3.0	0.02	<0.02	13	<0.1	0.10	7.7	1.68	0.1	0.10
AA069919	Soil	15.8	33.8	1.18	18.1	0.001	<1	2.50	0.005	0.04	<0.1	2.3	0.02	0.03	<5	<0.1	0.07	6.9	1.95	<0.1	0.11
AA069920	Soil	23.6	37.8	1.27	14.2	0.002	1	2.72	0.003	0.03	<0.1	2.0	<0.02	<0.02	10	<0.1	0.06	7.5	1.53	<0.1	0.11
AA069921	Soil	26.1	34.8	0.98	15.5	0.006	1	2.34	0.002	0.02	<0.1	1.8	0.03	<0.02	13	<0.1	0.08	7.8	1.19	0.1	0.10
AA069922	Soil	21.0	29.5	0.80	36.7	0.008	<1	2.14	0.007	0.03	<0.1	1.5	0.05	<0.02	26	0.2	0.05	7.2	1.24	<0.1	0.04
AA069923	Soil	24.2	33.8	1.11	22.9	0.004	1	2.47	0.003	0.03	<0.1	2.3	0.03	<0.02	19	<0.1	0.11	7.0	1.05	<0.1	0.13
AA069924	Soil	15.2	25.8	0.83	18.5	0.003	<1	1.85	0.003	0.02	<0.1	1.5	0.03	0.04	31	<0.1	0.14	6.7	1.38	0.1	0.15
AA069925	Soil	23.7	27.4	0.64	39.8	0.005	<1	1.79	0.003	0.03	<0.1	1.7	0.04	0.02	32	<0.1	0.07	7.1	1.57	0.1	0.06
AA069926	Soil	28.4	39.6	1.20	19.0	0.003	<1	2.60	0.004	0.03	<0.1	2.5	0.03	0.02	25	<0.1	0.16	8.0	1.67	0.2	0.17
AA069927	Soil	24.4	27.6	0.84	27.3	0.003	<1	2.08	0.005	0.05	<0.1	1.5	0.04	0.03	43	<0.1	0.11	7.0	1.80	<0.1	0.12
AA069928	Soil	30.8	33.8	1.41	16.9	0.002	1	2.74	0.003	0.03	<0.1	2.6	0.02	<0.02	22	0.1	0.16	7.0	1.44	0.1	0.07
AA069929	Soil	23.1	33.2	1.40	14.9	0.002	<1	2.79	0.003	0.03	<0.1	2.0	<0.02	0.02	11	<0.1	0.15	7.2	1.70	<0.1	0.14
AA069930	Soil	26.7	32.6	0.99	35.4	0.005	1	2.60	0.003	0.03	<0.1	2.0	0.05	0.02	38	0.1	0.14	7.4	1.60	<0.1	0.12
AA069641	Soil	22.4	18.1	0.73	26.6	0.002	2	1.57	0.004	0.05	<0.1	1.0	0.05	0.05	31	0.1	0.15	4.7	0.89	<0.1	0.13
AA069642	Soil	19.3	17.2	0.66	37.3	0.003	2	1.57	0.007	0.06	<0.1	2.0	0.08	<0.02	28	<0.1	0.08	4.4	1.47	<0.1	0.07
AA069643	Soil	17.4	19.7	0.61	54.6	0.006	3	1.46	0.008	0.07	0.1	1.8	0.07	0.06	12	0.2	0.03	3.9	1.38	<0.1	0.04
AA069644	Soil	12.3	12.7	0.28	20.6	0.006	1	0.99	0.008	0.03	<0.1	0.7	0.04	0.04	20	<0.1	0.04	3.2	1.06	<0.1	0.03
AA069645	Soil	34.6	13.9	0.34	24.3	0.001	1	1.23	0.003	0.05	<0.1	3.2	0.06	<0.02	14	0.1	0.07	3.1	2.35	0.1	0.02
AA069646	Soil	23.5	24.8	1.16	49.4	<0.001	<1	2.15	0.001	0.03	<0.1	1.8	0.04	<0.02	<5	<0.1	0.09	5.3	0.90	0.1	0.07
AA069647	Soil	33.3	25.4	1.01	26.4	0.006	2	1.81	0.002	0.03	<0.1	1.9	0.03	<0.02	10	0.2	0.03	4.8	0.55	<0.1	0.05
AA069648	Soil	17.2	10.0	0.66	22.8	<0.001	1	0.84	0.002	0.03	<0.1	4.5	0.20	0.04	40	1.1	0.10	2.0	0.42	<0.1	0.11
AA069649	Soil	23.6	27.4	1.09	22.6	0.004	1	2.02	0.001	0.03	<0.1	1.8	0.03	<0.02	21	<0.1	0.05	5.4	0.74	0.2	0.14
AA069650	Soil	15.3	19.6	0.67	29.5	0.003	<1	1.33	0.002	0.03	<0.1	1.1	0.04	0.07	24	0.2	0.05	4.8	1.13	<0.1	0.06



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**Project:** None Given  
**Report Date:** September 12, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000180.1

Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA069911	Soil	<0.02	1.9	0.1	<0.05	3.6	1.90	9.1	<0.02	1	0.3	91.2	<10	<2
AA069912	Soil	0.07	3.8	0.2	<0.05	3.4	3.86	32.0	<0.02	<1	0.6	47.0	<10	<2
AA069913	Soil	<0.02	2.0	<0.1	<0.05	2.9	2.74	23.4	<0.02	1	0.3	95.9	<10	<2
AA069914	Soil	<0.02	2.8	0.1	<0.05	4.0	2.73	38.4	<0.02	<1	0.6	83.6	<10	<2
AA069915	Soil	0.02	3.0	0.1	<0.05	4.7	2.74	38.9	<0.02	<1	0.3	85.4	<10	<2
AA069916	Soil	0.03	2.3	0.1	<0.05	5.0	2.31	36.0	0.02	<1	0.3	85.7	<10	<2
AA069917	Soil	0.02	2.2	0.2	<0.05	3.2	3.71	42.9	<0.02	<1	0.3	97.0	<10	<2
AA069918	Soil	0.03	2.7	0.2	<0.05	3.8	4.02	39.4	0.02	<1	0.5	103.0	<10	<2
AA069919	Soil	0.04	3.1	0.2	<0.05	4.2	3.44	29.2	<0.02	<1	0.5	87.7	<10	<2
AA069920	Soil	0.04	2.2	<0.1	<0.05	5.4	2.75	43.2	<0.02	<1	0.3	99.0	<10	<2
AA069921	Soil	0.25	3.4	0.3	<0.05	3.3	2.18	46.7	<0.02	<1	0.3	75.9	<10	3
AA069922	Soil	0.23	4.1	0.2	<0.05	2.0	1.79	38.5	<0.02	<1	0.2	63.5	<10	<2
AA069923	Soil	0.12	3.7	0.2	<0.05	4.1	2.47	43.6	0.02	<1	0.5	82.6	<10	<2
AA069924	Soil	0.12	4.4	0.1	<0.05	5.4	2.30	28.7	0.03	<1	0.2	63.2	<10	<2
AA069925	Soil	0.29	4.3	0.2	<0.05	2.4	3.24	43.5	<0.02	<1	0.3	56.0	<10	<2
AA069926	Soil	0.07	3.8	<0.1	<0.05	5.7	2.31	49.3	<0.02	1	0.3	93.8	<10	<2
AA069927	Soil	0.15	4.3	0.2	<0.05	5.4	2.34	43.1	<0.02	<1	0.4	67.2	<10	<2
AA069928	Soil	0.02	2.1	0.1	<0.05	3.8	5.41	56.9	<0.02	<1	0.6	108.0	<10	<2
AA069929	Soil	0.04	2.5	0.2	<0.05	5.8	4.07	42.2	0.03	<1	0.7	110.3	<10	<2
AA069930	Soil	0.28	4.9	0.2	<0.05	5.0	6.53	48.9	<0.02	<1	0.2	77.5	<10	<2
AA069641	Soil	0.14	6.9	0.2	<0.05	3.8	2.13	39.4	<0.02	<1	0.2	39.9	<10	<2
AA069642	Soil	0.10	7.2	0.2	<0.05	2.4	3.89	33.4	<0.02	<1	0.4	40.2	<10	<2
AA069643	Soil	0.43	7.7	0.3	<0.05	1.8	3.52	33.0	<0.02	<1	0.3	33.7	<10	<2
AA069644	Soil	0.16	5.2	0.2	<0.05	1.2	1.87	22.7	<0.02	<1	0.2	15.9	<10	<2
AA069645	Soil	0.06	4.8	0.2	<0.05	2.0	5.62	66.6	0.03	<1	1.2	24.5	<10	<2
AA069646	Soil	<0.02	2.2	0.1	<0.05	5.5	2.89	40.9	0.02	<1	0.4	70.9	<10	<2
AA069647	Soil	0.09	2.8	0.1	<0.05	4.5	4.54	59.1	0.03	<1	0.4	64.8	<10	<2
AA069648	Soil	0.04	2.0	<0.1	<0.05	7.0	13.93	31.7	0.02	<1	0.4	23.9	<10	3
AA069649	Soil	0.10	3.4	0.1	<0.05	4.2	2.85	43.0	<0.02	<1	0.2	76.8	<10	<2
AA069650	Soil	0.16	3.8	0.2	<0.05	2.7	1.84	27.7	<0.02	<1	0.2	40.5	<10	<2



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**Project:** None Given  
**Report Date:** September 12, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000180.1

Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
AA069551	Soil	0.45	33.31	28.64	71.0	81	24.5	16.2	848	2.75	65.7	1.3	7.3	10.4	7.1	0.07	0.79	0.41	13	0.03	0.054
AA069552	Soil	0.38	39.28	33.41	80.3	95	38.6	25.4	551	3.40	53.9	1.8	10.7	15.3	17.2	0.08	1.16	0.40	11	0.09	0.036
AA069553	Soil	0.49	33.07	33.42	79.0	128	33.7	15.9	434	3.12	83.2	1.8	14.0	16.0	12.8	0.07	1.94	0.45	8	0.10	0.039
AA069554	Soil	0.57	34.16	30.16	82.8	46	32.9	19.5	516	3.20	46.6	1.4	3.6	9.6	7.3	0.08	0.95	0.50	16	0.04	0.052
AA069555	Soil	0.49	37.77	35.21	87.5	171	34.0	18.9	544	3.24	125.3	1.3	24.1	14.9	19.6	0.10	2.24	0.50	8	0.15	0.043
AA069556	Soil	0.81	25.77	127.49	101.1	190	17.4	10.9	1040	3.07	941.0	1.2	90.9	4.9	36.4	0.26	2.63	0.51	17	0.03	0.074
AA069557	Soil	0.44	38.66	77.23	73.0	489	33.7	28.3	1213	3.35	1012.8	2.2	331.8	9.3	11.9	0.12	1.87	0.49	10	0.07	0.060
AA069558	Soil	0.51	36.52	39.66	85.5	102	31.2	23.4	891	3.32	335.9	2.2	34.2	10.2	7.4	0.15	1.21	0.41	11	0.03	0.056
AA069559	Soil	0.68	56.77	54.08	87.8	184	43.4	27.9	836	4.10	160.5	1.9	14.1	14.0	26.8	0.12	1.26	0.68	13	0.23	0.059
AA069560	Soil	0.49	42.48	60.88	83.2	548	43.6	49.5	1116	4.12	701.2	1.2	135.4	10.5	25.1	0.06	1.45	1.07	9	0.14	0.046
AA069561	Soil	0.46	43.04	49.89	98.0	407	41.3	21.1	400	4.10	291.6	2.1	55.0	14.5	45.6	0.11	4.05	0.60	9	0.44	0.075
AA069562	Soil	0.65	69.87	93.95	106.5	537	41.8	30.4	495	4.18	1786.8	2.5	244.3	17.7	16.8	0.24	3.62	0.96	11	0.13	0.041
AA069563	Soil	0.66	28.97	32.49	82.3	71	24.9	15.7	506	3.42	50.6	2.4	6.7	8.6	5.8	0.10	0.61	0.46	15	0.02	0.072
AA069564	Soil	0.65	29.06	26.94	93.4	44	30.4	11.7	375	3.66	104.6	1.5	14.1	8.2	13.0	0.08	0.61	0.48	15	0.13	0.060
AA069565	Soil	0.18	18.81	25.28	45.3	71	17.2	11.4	1055	2.23	23.4	1.4	3.1	13.3	16.1	0.04	0.60	0.16	6	0.21	0.020
AA069566	Soil	0.57	61.71	40.79	82.5	54	35.8	27.0	633	3.49	10.5	3.0	0.9	7.2	11.5	0.08	0.56	0.48	15	0.08	0.060
AA069567	Soil	0.73	62.06	43.79	101.5	132	67.0	36.7	946	4.64	16.2	2.5	1.6	13.2	88.2	0.13	0.82	0.53	23	0.32	0.076
AA069568	Soil	0.83	101.75	74.47	111.9	140	62.8	75.2	1728	4.76	25.3	5.1	3.5	16.0	18.9	0.13	2.44	0.70	18	0.08	0.057
AA069569	Soil	0.84	70.17	57.51	89.9	72	51.9	48.6	1166	4.15	17.7	2.8	2.0	9.3	11.0	0.11	1.63	0.56	15	0.09	0.057
AA069570	Soil	0.54	71.47	56.88	103.5	135	50.4	46.2	1039	4.36	21.2	3.2	2.3	15.1	22.4	0.12	0.79	0.63	17	0.17	0.064
AA069571	Soil	0.62	67.99	25.47	109.2	42	48.9	28.2	426	5.16	13.5	1.5	0.6	18.7	11.5	0.09	0.64	0.80	20	0.08	0.071
AA069572	Soil	1.26	30.54	108.01	193.6	230	35.6	12.9	1367	5.52	24.3	4.0	5.7	5.4	29.8	0.66	1.37	0.47	25	0.35	0.079
AA069573	Soil	0.72	65.62	45.29	113.0	25	41.1	20.0	598	4.45	34.6	6.1	1.8	10.5	16.8	0.08	0.80	0.86	23	0.15	0.068
AA069574	Soil	0.59	21.29	17.78	46.1	28	18.6	8.9	223	2.66	22.6	0.9	0.9	2.0	4.7	0.03	1.09	0.40	17	0.02	0.062
AA069575	Soil	0.21	6.14	8.18	13.5	21	5.2	2.7	140	0.81	37.0	1.8	<0.2	0.4	18.2	0.03	0.23	0.12	7	0.17	0.040
AA069576	Soil	0.76	47.90	98.06	88.8	75	31.9	37.1	1349	3.65	38.6	1.3	5.9	12.2	7.5	0.06	1.57	0.97	17	0.05	0.096
AA069577	Soil	0.79	39.75	377.14	87.3	116	34.8	23.5	813	3.55	17.6	4.4	3.4	16.5	18.8	0.07	0.85	0.56	13	0.12	0.029
AA069578	Soil	0.44	41.39	44.17	82.7	77	36.9	26.5	971	4.07	9.7	2.1	5.2	11.1	13.4	0.09	0.66	0.60	11	0.13	0.060
AA069579	Soil	0.38	31.62	37.26	62.6	111	24.0	17.2	957	3.12	4.5	2.2	<0.2	7.4	16.4	0.08	0.54	0.35	11	0.13	0.073
AA069580	Soil	3.24	37.00	86.03	78.4	128	51.9	19.2	1057	4.03	4.2	2.1	2.7	12.6	21.5	0.13	0.47	0.40	13	0.25	0.071



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**Project:** None Given  
**Report Date:** September 12, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000180.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA069551	Soil	22.0	12.7	0.43	28.6	0.005	<1	1.24	0.011	0.05	<0.1	2.0	0.06	<0.02	7	<0.1	0.05	3.6	1.37	0.2	<0.02
AA069552	Soil	24.0	18.9	0.59	32.7	0.001	<1	1.46	0.004	0.06	<0.1	2.0	0.04	<0.02	<5	<0.1	0.02	3.9	1.16	<0.1	0.06
AA069553	Soil	37.1	10.5	0.27	34.4	<0.001	<1	0.81	0.004	0.06	<0.1	2.4	0.05	<0.02	12	0.2	0.03	2.1	1.22	<0.1	0.03
AA069554	Soil	28.3	18.8	0.48	29.0	0.006	<1	1.46	0.005	0.05	<0.1	1.7	0.06	<0.02	16	0.1	0.05	3.9	1.40	<0.1	0.08
AA069555	Soil	26.2	9.9	0.28	29.7	<0.001	<1	0.79	0.004	0.05	<0.1	2.6	0.04	<0.02	<5	<0.1	0.06	2.1	1.21	0.1	0.11
AA069556	Soil	23.4	13.8	0.22	59.5	0.005	<1	1.09	0.010	0.08	<0.1	1.5	0.09	0.06	34	0.3	0.03	3.9	2.05	<0.1	0.02
AA069557	Soil	15.3	11.8	0.29	50.2	0.003	<1	1.20	0.011	0.05	<0.1	1.9	0.07	0.03	36	0.1	0.06	3.1	1.55	<0.1	0.03
AA069558	Soil	19.3	14.8	0.40	35.2	0.003	<1	1.34	0.009	0.05	<0.1	2.1	0.06	0.02	20	0.3	0.06	3.4	1.32	<0.1	0.04
AA069559	Soil	22.6	17.9	0.77	26.0	0.001	<1	1.54	0.002	0.04	<0.1	3.5	0.03	<0.02	16	0.2	0.28	4.0	0.82	0.1	0.16
AA069560	Soil	25.3	9.4	0.32	30.9	<0.001	<1	0.88	0.004	0.05	<0.1	3.0	0.03	0.06	24	<0.1	0.20	2.2	1.64	0.1	0.02
AA069561	Soil	22.9	8.3	0.28	39.8	0.002	<1	0.96	0.005	0.04	<0.1	3.8	0.04	0.03	29	0.1	0.13	2.2	0.83	<0.1	0.08
AA069562	Soil	30.6	15.7	0.58	34.9	0.001	<1	1.32	0.003	0.05	<0.1	2.3	0.05	<0.02	8	<0.1	0.10	3.7	1.05	0.1	<0.02
AA069563	Soil	19.9	21.0	0.52	43.3	0.002	<1	1.69	0.008	0.04	<0.1	1.8	0.07	0.04	26	0.2	0.05	5.1	1.05	0.1	0.09
AA069564	Soil	14.4	22.3	0.66	40.1	0.002	<1	1.82	0.008	0.05	<0.1	1.8	0.05	0.03	12	<0.1	0.03	4.9	1.13	<0.1	0.07
AA069565	Soil	18.3	9.7	0.43	17.5	<0.001	<1	1.16	0.002	0.03	<0.1	1.8	<0.02	<0.02	12	<0.1	<0.02	2.8	0.57	0.2	0.03
AA069566	Soil	20.8	23.8	0.67	55.1	0.003	<1	2.02	0.011	0.03	<0.1	1.9	0.04	0.02	22	0.2	0.07	5.0	1.21	<0.1	0.12
AA069567	Soil	24.1	37.0	1.11	47.1	0.008	<1	2.23	0.005	0.05	<0.1	3.6	0.04	0.02	22	0.2	0.06	6.2	0.75	0.2	0.11
AA069568	Soil	25.2	30.8	0.99	42.6	0.001	<1	2.35	0.006	0.03	<0.1	2.6	0.05	<0.02	17	<0.1	0.08	6.3	1.55	0.1	0.08
AA069569	Soil	20.4	26.1	0.79	43.0	0.002	<1	2.09	0.010	0.03	<0.1	2.3	0.05	<0.02	9	0.1	0.06	5.4	1.27	<0.1	0.07
AA069570	Soil	21.6	29.7	0.92	30.5	0.004	<1	2.02	0.005	0.03	<0.1	2.3	0.04	<0.02	9	<0.1	0.07	5.7	0.95	<0.1	0.07
AA069571	Soil	18.1	35.2	1.11	26.5	0.002	<1	2.77	0.004	0.03	<0.1	1.7	0.05	<0.02	9	0.2	0.10	7.0	2.74	0.1	0.06
AA069572	Soil	29.7	21.6	0.41	82.0	0.008	<1	1.53	0.004	0.04	0.1	4.5	0.08	0.03	64	0.4	0.08	4.1	0.91	<0.1	0.03
AA069573	Soil	14.7	33.4	0.83	80.5	0.002	<1	2.50	0.004	0.06	<0.1	2.7	0.06	0.03	11	0.2	0.07	6.6	3.26	<0.1	0.23
AA069574	Soil	13.1	15.0	0.35	32.7	0.006	<1	1.23	0.010	0.03	<0.1	0.7	0.07	0.03	17	0.2	0.04	4.7	1.16	0.1	<0.02
AA069575	Soil	3.5	6.4	0.11	15.0	0.008	<1	0.53	0.024	0.02	<0.1	0.4	<0.02	0.04	9	0.3	<0.02	2.0	0.30	0.1	<0.02
AA069576	Soil	13.8	24.8	0.63	18.1	0.003	2	1.81	0.006	0.03	<0.1	1.4	0.05	0.02	9	<0.1	0.08	5.2	0.90	<0.1	0.09
AA069577	Soil	14.1	25.1	0.72	16.8	<0.001	<1	1.78	0.002	0.03	<0.1	1.8	0.02	<0.02	10	<0.1	0.03	4.7	1.16	<0.1	0.06
AA069578	Soil	14.6	19.9	0.66	28.2	0.003	<1	1.56	0.003	0.03	<0.1	2.1	0.03	<0.02	21	<0.1	<0.02	4.0	0.48	<0.1	0.07
AA069579	Soil	9.4	14.9	0.43	50.6	0.005	1	1.56	0.011	0.04	<0.1	2.3	0.05	0.04	29	0.2	<0.02	4.0	0.96	<0.1	0.11
AA069580	Soil	10.5	45.7	0.68	40.6	0.003	<1	1.71	0.007	0.06	<0.1	3.3	0.04	0.04	45	<0.1	<0.02	4.7	0.71	<0.1	0.14



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**Project:** None Given  
**Report Date:** September 12, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000180.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA069551	Soil	0.15	6.0	0.6	<0.05	1.6	3.83	41.4	<0.02	<1	0.4	22.0	<10	<2
AA069552	Soil	<0.02	3.7	0.6	<0.05	6.2	3.63	45.9	<0.02	<1	0.4	35.7	<10	<2
AA069553	Soil	0.03	4.0	1.1	<0.05	3.6	6.01	68.8	<0.02	<1	0.5	13.5	<10	<2
AA069554	Soil	0.28	5.8	0.7	<0.05	2.1	3.77	53.7	0.02	<1	0.3	29.5	<10	<2
AA069555	Soil	<0.02	2.9	1.4	<0.05	8.5	5.74	48.5	<0.02	<1	0.4	13.5	<10	2
AA069556	Soil	0.24	11.4	0.7	<0.05	0.8	3.47	47.4	0.02	<1	0.3	11.9	<10	<2
AA069557	Soil	0.13	6.8	0.8	<0.05	1.8	5.61	29.5	<0.02	<1	0.5	19.7	<10	<2
AA069558	Soil	0.12	5.6	1.2	<0.05	2.2	5.61	40.7	<0.02	<1	0.4	23.4	<10	<2
AA069559	Soil	0.03	2.3	0.4	<0.05	10.8	9.10	42.1	0.02	<1	0.5	46.2	<10	<2
AA069560	Soil	0.03	3.4	0.9	<0.05	2.9	4.43	42.5	0.03	<1	1.0	13.3	<10	<2
AA069561	Soil	0.05	3.0	0.7	<0.05	5.7	10.45	40.1	0.03	<1	0.4	12.4	<10	<2
AA069562	Soil	0.06	5.3	0.4	<0.05	1.0	5.19	53.3	0.03	<1	0.6	37.9	<10	<2
AA069563	Soil	0.14	6.6	0.6	<0.05	3.4	3.76	36.7	0.04	<1	0.3	41.2	<10	<2
AA069564	Soil	0.11	5.7	0.6	<0.05	2.5	3.43	25.6	0.03	<1	0.6	53.1	<10	<2
AA069565	Soil	<0.02	2.0	0.4	<0.05	2.9	5.02	37.1	0.03	<1	0.2	22.3	<10	<2
AA069566	Soil	0.12	3.7	0.8	<0.05	3.6	5.81	34.7	0.02	1	0.6	54.4	<10	<2
AA069567	Soil	0.15	3.1	0.6	<0.05	6.8	10.03	43.6	0.03	<1	0.8	69.8	<10	<2
AA069568	Soil	<0.02	2.7	0.6	<0.05	5.4	8.57	44.0	0.02	<1	0.9	94.7	<10	<2
AA069569	Soil	0.07	3.2	0.5	<0.05	3.2	6.28	34.8	0.04	<1	0.6	68.5	<10	<2
AA069570	Soil	0.04	2.4	0.6	<0.05	7.9	6.97	38.3	0.02	<1	0.4	79.0	<10	2
AA069571	Soil	0.12	5.4	0.5	<0.05	1.8	2.97	32.7	0.02	<1	0.5	63.8	<10	<2
AA069572	Soil	0.21	5.0	0.8	<0.05	1.4	15.57	54.0	0.05	<1	1.0	27.3	<10	<2
AA069573	Soil	0.18	8.0	0.4	<0.05	8.7	6.23	24.6	0.03	<1	0.7	77.8	<10	<2
AA069574	Soil	0.21	5.9	0.7	<0.05	0.6	1.45	24.1	<0.02	<1	0.2	25.9	<10	<2
AA069575	Soil	0.23	2.0	0.2	<0.05	0.4	0.94	6.4	<0.02	<1	<0.1	9.0	<10	<2
AA069576	Soil	0.12	4.6	0.3	<0.05	3.5	2.49	24.7	0.03	<1	0.4	65.6	<10	<2
AA069577	Soil	<0.02	2.4	0.8	<0.05	2.6	3.06	25.2	<0.02	<1	0.4	73.3	<10	<2
AA069578	Soil	0.05	2.1	1.7	<0.05	2.6	9.91	29.6	<0.02	<1	0.2	57.5	<10	<2
AA069579	Soil	0.19	4.7	1.3	<0.05	3.4	12.13	20.5	0.05	<1	0.5	38.4	<10	<2
AA069580	Soil	0.13	4.2	35.2	<0.05	5.5	12.62	23.5	0.05	<1	0.6	59.8	<10	<2



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**Project:** None Given  
**Report Date:** September 12, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000180.1

Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
MDL		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
AA069581	Soil	0.31	40.11	25.90	60.6	118	29.9	15.1	404	3.48	3.9	1.8	0.4	13.1	20.2	0.04	0.49	0.37	11	0.25	0.058
AA069582	Soil	0.41	46.95	37.13	81.5	131	39.3	25.3	1067	4.33	7.9	2.4	2.0	20.1	25.6	0.07	0.88	0.48	12	0.26	0.064
AA069583	Soil	0.32	77.94	32.19	71.7	133	34.5	26.1	878	3.85	4.7	1.6	1.1	19.3	22.3	0.08	0.61	0.38	11	0.20	0.043
AA069584	Soil	0.64	18.68	25.06	52.2	62	24.7	17.6	1212	2.89	5.5	1.2	1.1	13.8	9.4	0.11	0.47	0.30	16	0.08	0.060
AA069585	Soil	0.75	19.20	23.27	57.0	51	18.7	9.0	405	2.98	10.3	0.9	1.4	2.1	5.0	0.10	0.83	0.37	22	0.02	0.086
AA069586	Soil	0.29	34.76	36.70	76.1	129	36.2	16.3	407	3.23	33.0	1.0	4.9	13.2	12.5	0.04	2.02	0.39	9	0.13	0.038
AA069587	Soil	0.37	26.80	22.45	86.9	40	30.5	13.9	392	3.73	32.7	1.2	7.8	10.0	5.6	0.04	0.92	0.32	14	0.02	0.046
AA069588	Soil	0.62	22.82	18.81	47.4	49	16.5	9.8	768	2.07	31.2	0.8	2.3	4.1	8.0	0.06	0.42	0.24	14	0.08	0.077
AA069589	Soil	0.27	41.36	34.12	78.3	236	49.1	20.0	654	3.80	1272.8	2.3	284.8	10.0	16.5	0.05	1.67	0.34	20	0.13	0.040
AA069590	Soil	0.32	47.22	38.23	85.7	355	54.8	24.9	921	3.96	1463.1	2.8	771.8	10.5	16.7	0.07	1.80	0.39	22	0.13	0.042
AA069811	Soil	0.53	37.90	39.48	81.9	178	31.4	16.9	485	3.47	98.3	17.5	13.1	8.5	50.4	0.11	0.79	0.47	13	0.49	0.082
AA069812	Soil	0.45	48.02	41.97	92.2	44	35.0	20.5	683	4.24	29.2	3.3	1.1	13.0	14.9	0.04	0.76	0.63	14	0.16	0.059
AA069813	Soil	0.73	58.25	66.06	102.9	50	36.2	29.6	1264	4.04	22.8	1.4	1.1	14.0	5.4	0.06	0.55	0.68	20	0.03	0.064
AA069814	Soil	0.34	82.60	28.24	103.6	58	38.3	29.8	1540	4.19	9.1	1.0	0.9	17.7	5.7	0.08	0.27	0.73	18	0.03	0.050
AA069815	Soil	0.54	96.44	76.89	103.3	69	41.7	42.0	1929	3.98	16.9	2.0	2.7	19.0	15.5	0.09	0.54	0.75	14	0.11	0.043
AA069816	Soil	0.46	47.51	54.92	59.1	112	19.8	29.1	853	2.18	12.0	1.5	1.8	5.9	5.4	0.07	0.64	0.52	11	0.05	0.055
AA069817	Soil	0.51	45.43	54.28	90.7	69	31.6	27.2	1121	3.70	18.9	1.7	3.1	9.2	8.0	0.11	0.66	0.65	19	0.06	0.071
AA069818	Soil	0.52	49.37	52.20	104.0	172	43.4	27.8	1043	4.75	30.5	2.7	10.3	18.2	30.9	0.09	3.13	0.64	12	0.33	0.053
AA069819	Soil	0.33	42.71	42.95	94.7	200	42.5	25.8	823	4.11	116.1	1.7	43.8	18.6	24.1	0.07	5.89	0.56	9	0.23	0.063
AA069820	Soil	0.41	44.42	53.28	100.6	212	41.5	26.3	888	4.25	72.1	2.2	25.2	18.9	27.1	0.09	4.99	0.54	10	0.28	0.051
AA069821	Soil	0.45	34.98	39.00	78.2	139	30.9	21.6	698	3.16	120.8	1.6	25.3	5.6	12.6	0.07	3.71	0.40	10	0.12	0.087
AA069822	Soil	0.44	55.01	54.64	111.6	138	45.2	28.5	647	4.37	13.1	2.0	2.1	25.4	28.3	0.07	1.10	0.68	11	0.32	0.056
AA069823	Soil	0.39	43.68	45.79	96.9	122	37.9	22.8	953	4.05	10.6	1.6	6.2	17.5	29.8	0.09	1.21	0.54	11	0.32	0.063
AA069824	Soil	0.67	26.79	26.49	51.1	56	15.9	7.8	238	2.83	61.1	1.1	4.8	1.7	7.6	0.05	0.78	0.41	18	0.04	0.115
AA069825	Soil	0.61	21.24	29.92	56.0	63	18.6	8.2	464	2.57	283.8	1.3	18.6	6.6	5.5	0.06	0.77	0.26	10	0.02	0.077
AA069826	Soil	0.54	24.29	24.11	49.9	47	16.7	10.3	380	2.32	221.6	1.0	17.8	2.4	6.0	0.04	0.77	0.35	13	0.03	0.069
AA069827	Soil	0.77	34.57	41.95	64.3	144	22.5	16.6	744	2.53	90.6	1.7	13.4	8.9	9.7	0.06	0.86	0.35	14	0.05	0.073
AA069828	Soil	0.98	36.44	46.55	64.0	147	24.8	17.0	702	2.76	98.2	1.8	14.8	9.2	10.6	0.06	0.92	0.36	15	0.06	0.080
AA069829	Soil	0.51	48.02	40.89	92.8	133	33.4	24.1	840	3.41	418.7	1.2	79.6	10.9	11.1	0.07	1.37	0.66	13	0.07	0.051
AA069830	Soil	0.44	34.39	28.35	66.7	89	35.2	16.7	497	3.34	30.0	1.1	3.9	13.6	12.9	0.04	1.42	0.48	9	0.09	0.037



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**Project:** None Given  
**Report Date:** September 12, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
AA069581	Soil	11.4	17.7	0.60	51.0	0.003	<1	1.77	0.009	0.03	<0.1	2.6	0.03	0.03	18	<0.1	<0.02	4.4	0.71	<0.1	0.15
AA069582	Soil	12.2	19.6	0.72	40.2	0.002	<1	1.74	0.004	0.04	<0.1	3.7	0.03	<0.02	23	<0.1	<0.02	4.2	0.95	<0.1	0.16
AA069583	Soil	10.5	19.7	0.66	36.0	0.002	<1	1.62	0.004	0.03	<0.1	3.0	0.03	<0.02	14	<0.1	<0.02	4.4	0.82	<0.1	0.14
AA069584	Soil	22.9	19.5	0.49	40.0	0.007	<1	1.50	0.003	0.04	<0.1	2.6	0.05	0.03	46	<0.1	<0.02	4.0	0.77	<0.1	0.06
AA069585	Soil	13.1	20.5	0.37	27.5	0.009	1	1.27	0.003	0.04	<0.1	1.0	0.05	0.07	52	0.1	<0.02	5.4	1.25	<0.1	<0.02
AA069586	Soil	20.6	14.1	0.39	35.9	0.001	<1	1.09	0.002	0.05	<0.1	2.0	0.05	<0.02	8	<0.1	<0.02	2.7	0.95	<0.1	0.04
AA069587	Soil	27.7	22.4	0.61	33.9	0.002	<1	1.67	0.002	0.05	<0.1	1.6	0.05	<0.02	10	<0.1	<0.02	4.6	1.03	<0.1	0.07
AA069588	Soil	14.3	12.3	0.39	27.8	0.014	<1	1.03	0.016	0.04	<0.1	1.6	0.05	<0.02	8	<0.1	<0.02	3.0	0.75	<0.1	<0.02
AA069589	Soil	22.5	34.9	0.98	67.7	<0.001	<1	1.93	0.003	0.06	<0.1	4.3	0.04	<0.02	<5	<0.1	<0.02	4.6	1.44	<0.1	0.04
AA069590	Soil	23.7	40.7	0.98	79.3	<0.001	<1	1.94	0.003	0.07	<0.1	5.3	0.04	<0.02	<5	<0.1	<0.02	4.6	1.65	<0.1	0.05
AA069811	Soil	14.2	22.5	0.64	27.0	0.003	2	1.58	0.004	0.04	<0.1	2.0	0.03	0.06	24	0.7	<0.02	4.2	0.72	<0.1	0.10
AA069812	Soil	15.6	23.0	0.69	43.6	<0.001	<1	1.90	0.002	0.03	<0.1	2.3	0.05	<0.02	8	<0.1	<0.02	4.7	1.05	<0.1	0.09
AA069813	Soil	17.9	29.8	0.83	24.6	0.003	<1	2.30	0.004	0.04	<0.1	1.7	0.05	<0.02	6	<0.1	0.04	6.2	1.51	<0.1	0.13
AA069814	Soil	21.2	30.4	0.89	41.1	0.002	<1	2.34	0.003	0.04	<0.1	2.0	0.04	<0.02	12	<0.1	0.06	6.3	1.66	<0.1	0.11
AA069815	Soil	16.3	25.9	0.82	59.1	0.001	<1	2.12	0.002	0.03	<0.1	2.1	0.05	<0.02	25	<0.1	0.06	5.4	1.51	<0.1	0.08
AA069816	Soil	9.3	13.4	0.35	25.6	0.006	<1	1.20	0.012	0.03	<0.1	1.1	0.03	<0.02	22	<0.1	0.03	3.4	1.04	<0.1	0.06
AA069817	Soil	16.4	23.7	0.68	37.4	0.006	<1	1.94	0.005	0.04	<0.1	1.8	0.07	<0.02	22	0.2	0.03	5.3	1.17	<0.1	0.06
AA069818	Soil	15.9	20.9	0.68	40.2	0.002	<1	1.74	0.004	0.04	<0.1	4.1	0.04	0.02	34	0.1	<0.02	4.2	0.92	<0.1	0.13
AA069819	Soil	13.6	14.9	0.43	33.3	0.001	<1	1.14	0.003	0.03	<0.1	3.6	0.03	<0.02	18	<0.1	0.02	2.9	0.89	<0.1	0.08
AA069820	Soil	16.0	16.8	0.48	40.1	0.001	<1	1.41	0.004	0.04	<0.1	4.1	0.04	0.02	25	<0.1	<0.02	3.8	1.49	<0.1	0.08
AA069821	Soil	9.1	12.3	0.30	33.8	0.004	1	1.18	0.013	0.04	<0.1	2.1	0.04	0.03	24	0.1	<0.02	3.2	1.25	<0.1	0.07
AA069822	Soil	10.4	23.9	0.82	28.7	<0.001	<1	1.84	0.002	0.04	<0.1	2.3	0.02	<0.02	24	<0.1	<0.02	4.7	0.98	<0.1	0.18
AA069823	Soil	14.1	20.9	0.65	29.4	0.002	2	1.62	0.003	0.03	<0.1	3.7	0.03	<0.02	21	<0.1	<0.02	4.3	0.67	<0.1	0.13
AA069824	Soil	10.7	15.7	0.26	37.1	0.005	<1	1.15	0.005	0.04	<0.1	0.6	0.07	0.06	23	0.3	<0.02	4.4	1.20	<0.1	0.02
AA069825	Soil	13.5	11.3	0.22	29.4	0.003	<1	1.03	0.004	0.04	<0.1	1.2	0.05	0.05	48	0.3	<0.02	2.8	1.21	<0.1	0.05
AA069826	Soil	12.2	11.5	0.28	22.4	0.007	<1	0.98	0.011	0.04	<0.1	0.8	0.05	0.04	24	0.2	<0.02	3.1	0.90	<0.1	0.03
AA069827	Soil	16.6	13.9	0.36	32.5	0.007	<1	1.19	0.012	0.06	0.1	1.8	0.07	0.04	37	0.5	<0.02	3.0	1.30	<0.1	0.05
AA069828	Soil	18.1	15.7	0.39	33.3	0.008	2	1.24	0.013	0.07	0.2	2.0	0.07	0.04	39	0.5	<0.02	3.3	1.39	<0.1	0.06
AA069829	Soil	20.0	15.2	0.66	39.9	0.002	<1	1.47	0.006	0.06	<0.1	2.0	0.05	<0.02	18	<0.1	0.08	3.6	1.20	<0.1	0.03
AA069830	Soil	26.3	15.3	0.59	29.8	0.001	<1	1.24	0.003	0.05	<0.1	1.9	0.04	<0.02	<5	<0.1	0.05	3.1	0.93	<0.1	0.09



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**Project:** None Given  
**Report Date:** September 12, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000180.1

Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA069581	Soil	0.14	2.7	0.8	<0.05	7.0	15.58	22.4	0.04	<1	0.6	53.8	<10	<2
AA069582	Soil	0.02	2.5	1.0	<0.05	7.9	16.49	25.6	0.04	<1	0.7	60.7	<10	<2
AA069583	Soil	0.03	2.3	0.4	<0.05	10.4	11.04	21.8	0.03	<1	0.2	54.9	<10	<2
AA069584	Soil	0.19	4.8	2.9	<0.05	2.3	11.37	48.5	0.03	<1	0.4	41.9	<10	<2
AA069585	Soil	0.37	6.3	4.3	<0.05	0.8	3.03	27.6	0.03	<1	<0.1	30.3	<10	<2
AA069586	Soil	0.04	3.5	0.9	<0.05	3.5	5.83	40.0	<0.02	<1	0.5	24.2	<10	<2
AA069587	Soil	0.10	6.2	0.4	<0.05	3.3	3.21	52.3	<0.02	<1	0.1	42.8	<10	<2
AA069588	Soil	0.21	4.7	0.7	<0.05	1.3	3.08	27.4	<0.02	<1	<0.1	23.3	<10	<2
AA069589	Soil	<0.02	4.2	1.7	<0.05	2.8	5.47	40.1	0.04	<1	0.5	48.1	<10	<2
AA069590	Soil	<0.02	4.6	1.4	<0.05	3.2	6.27	41.5	0.02	<1	0.5	47.9	<10	<2
AA069811	Soil	0.22	4.8	1.7	<0.05	3.4	7.21	25.4	<0.02	<1	0.4	50.5	<10	<2
AA069812	Soil	0.05	4.3	0.7	<0.05	3.2	5.92	29.3	0.04	<1	0.4	58.4	<10	<2
AA069813	Soil	0.12	5.0	0.6	<0.05	3.8	3.08	31.8	0.03	<1	0.4	79.6	<10	<2
AA069814	Soil	0.07	4.3	1.1	<0.05	4.2	5.48	37.5	0.03	<1	0.6	91.9	<10	<2
AA069815	Soil	<0.02	3.7	1.9	<0.05	3.6	5.39	30.5	0.02	<1	0.5	85.1	<10	2
AA069816	Soil	0.14	3.1	0.8	<0.05	2.6	2.98	17.2	0.02	<1	0.3	36.9	<10	<2
AA069817	Soil	0.14	5.3	0.5	<0.05	2.1	7.48	28.9	0.03	<1	0.2	59.6	<10	<2
AA069818	Soil	0.05	2.9	1.6	<0.05	7.3	14.61	29.4	0.04	<1	0.8	54.2	<10	<2
AA069819	Soil	0.03	2.0	0.6	<0.05	5.8	11.63	27.1	0.03	<1	0.8	36.7	<10	<2
AA069820	Soil	0.04	3.3	1.3	<0.05	4.5	13.46	31.3	0.05	<1	0.5	41.0	<10	<2
AA069821	Soil	0.12	3.6	1.6	<0.05	2.2	6.13	18.8	0.02	<1	0.4	27.3	<10	<2
AA069822	Soil	<0.02	2.2	1.6	<0.05	11.1	7.44	20.1	0.03	<1	0.6	71.2	<10	<2
AA069823	Soil	0.02	1.9	1.3	<0.05	8.3	11.55	27.4	0.03	<1	0.3	58.9	<10	<2
AA069824	Soil	0.27	7.0	0.7	<0.05	0.9	2.23	20.5	<0.02	<1	<0.1	16.2	<10	<2
AA069825	Soil	0.15	5.9	2.2	<0.05	1.9	2.66	26.7	<0.02	<1	0.3	14.1	<10	<2
AA069826	Soil	0.15	5.3	0.8	<0.05	0.9	2.19	22.1	0.02	<1	0.2	16.7	<10	<2
AA069827	Soil	0.18	6.3	1.6	<0.05	1.8	4.65	32.9	<0.02	<1	0.2	20.6	<10	<2
AA069828	Soil	0.20	6.9	3.9	<0.05	2.0	5.00	36.4	0.02	<1	0.3	21.6	<10	<2
AA069829	Soil	0.05	5.3	0.4	<0.05	1.5	4.92	34.4	0.03	<1	0.6	36.5	<10	<2
AA069830	Soil	<0.02	3.1	0.9	<0.05	6.3	4.71	47.7	<0.02	<1	0.3	37.0	<10	<2



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**Project:** None Given  
**Report Date:** September 12, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000180.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
AA069831	Soil	0.54	45.78	47.51	76.9	169	28.8	20.4	592	3.74	1007.2	3.5	165.4	10.9	42.3	0.08	2.81	0.47	12	0.02	0.060
AA069832	Soil	0.65	55.76	35.76	82.4	75	35.9	28.9	1321	3.61	107.0	1.1	22.1	10.9	18.0	0.09	0.66	0.56	13	0.11	0.046
AA069833	Soil	8.45	47.20	31.72	79.2	332	39.0	17.6	707	3.11	152.5	1.4	58.3	9.4	12.8	0.39	3.36	0.45	8	0.36	0.073
AA069834	Soil	5.65	51.78	40.35	109.8	167	37.6	17.8	690	3.78	98.7	2.4	19.4	7.0	9.8	0.28	1.48	0.57	16	0.13	0.062
AA069835	Soil	2.74	48.42	44.63	80.6	93	31.6	22.9	923	3.22	38.5	1.6	6.5	4.1	7.8	0.17	0.88	0.48	16	0.05	0.061
AA069836	Soil	0.68	39.08	38.09	81.4	87	32.0	18.2	514	3.30	90.9	2.1	28.7	5.5	17.5	0.07	1.09	0.42	11	0.09	0.054
AA069837	Soil	0.42	34.99	30.58	78.1	79	33.5	16.5	474	3.48	111.9	1.6	38.8	9.6	17.7	0.05	0.77	0.42	11	0.08	0.035
AA069838	Soil	0.55	35.52	38.18	75.0	88	29.2	16.5	561	3.30	80.6	1.6	21.2	9.9	12.6	0.05	0.79	0.42	10	0.06	0.042
AA069839	Soil	0.33	52.67	39.17	88.7	85	40.3	25.9	784	3.96	48.0	1.4	10.9	13.6	23.2	0.05	0.64	0.46	14	0.11	0.040
AA069840	Soil	0.43	29.14	28.92	72.5	81	27.4	14.0	389	2.89	73.7	1.6	21.6	12.2	13.8	0.06	0.97	0.30	12	0.10	0.048
AA069841	Soil	0.38	49.31	30.48	104.2	97	39.6	23.1	453	3.95	34.6	1.9	4.1	15.5	20.4	0.04	0.72	0.48	12	0.11	0.038
AA069842	Soil	0.49	29.68	30.58	75.2	86	29.5	13.1	384	3.11	214.3	1.4	36.5	11.0	19.1	0.05	1.13	0.35	12	0.09	0.050
AA069843	Soil	0.44	46.34	51.80	91.8	133	40.6	43.9	634	3.52	89.5	3.0	21.0	15.7	29.6	0.05	1.14	0.45	10	0.10	0.043
AA069844	Soil	0.39	41.56	37.35	95.8	88	42.3	33.1	571	3.82	37.8	2.4	14.0	14.2	32.0	0.06	0.70	0.39	12	0.12	0.046
AA069845	Soil	0.74	42.85	35.83	94.1	134	39.3	26.8	518	3.59	29.6	2.3	5.7	13.5	34.3	0.11	0.70	0.36	14	0.15	0.075
AA069846	Soil	0.67	33.67	26.52	87.3	34	35.3	15.0	467	4.23	24.2	0.9	3.4	7.0	6.2	0.04	0.43	0.40	22	0.03	0.042
AA069847	Soil	0.83	33.64	55.18	60.1	152	23.0	9.0	342	3.22	31.8	2.4	8.2	1.7	6.4	0.08	1.04	0.46	15	0.03	0.184
AA069848	Soil	1.11	75.59	67.03	112.0	89	48.7	45.8	1677	5.50	117.6	4.5	32.8	8.2	13.8	0.09	2.51	0.70	21	<0.01	0.067
AA069849	Soil	0.58	70.46	69.38	112.3	73	47.2	41.9	1700	4.93	47.3	3.0	10.6	8.3	6.3	0.11	0.73	0.49	20	0.07	0.051
AA069850	Soil	0.65	70.93	60.10	106.6	87	46.0	30.2	1292	4.84	50.7	2.1	12.2	7.1	6.7	0.09	0.59	0.58	20	0.07	0.043



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**Project:** None Given  
**Report Date:** September 12, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000180.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA069831	Soil	25.8	13.2	0.32	57.8	0.002	<1	1.29	0.007	0.06	<0.1	1.9	0.07	0.06	14	<0.1	0.07	3.2	2.25	<0.1	0.03
AA069832	Soil	23.6	19.1	0.89	49.6	0.003	<1	1.80	0.006	0.03	<0.1	1.6	0.04	<0.02	12	<0.1	0.11	4.5	0.93	<0.1	0.05
AA069833	Soil	18.3	7.3	0.30	25.1	0.002	<1	0.63	0.004	0.03	<0.1	4.2	0.09	0.03	21	0.2	0.08	1.2	0.59	<0.1	0.18
AA069834	Soil	22.6	20.7	0.81	24.8	0.004	1	1.52	0.004	0.03	<0.1	3.1	0.08	<0.02	21	0.5	0.11	4.0	1.19	<0.1	0.05
AA069835	Soil	14.1	16.9	0.73	27.7	0.006	<1	1.57	0.008	0.04	<0.1	2.0	0.08	0.02	42	0.2	0.10	4.0	0.93	<0.1	0.06
AA069836	Soil	19.3	16.6	0.54	31.7	0.002	<1	1.44	0.004	0.04	<0.1	1.3	0.05	0.03	34	0.3	0.06	3.6	1.62	<0.1	0.10
AA069837	Soil	23.4	17.5	0.68	22.8	0.001	<1	1.52	0.002	0.03	<0.1	1.6	0.03	<0.02	16	<0.1	0.09	3.7	1.02	<0.1	0.03
AA069838	Soil	23.9	13.8	0.49	28.1	0.001	<1	1.34	0.002	0.04	<0.1	1.5	0.03	<0.02	24	0.1	0.05	3.2	1.38	<0.1	0.06
AA069839	Soil	26.8	22.2	0.93	23.8	0.002	<1	1.87	0.002	0.06	<0.1	1.9	0.02	<0.02	8	<0.1	0.15	4.7	0.79	<0.1	0.22
AA069840	Soil	24.9	14.0	0.41	18.2	0.006	<1	1.07	0.003	0.03	<0.1	1.7	0.03	<0.02	14	0.2	0.05	2.7	0.72	<0.1	0.04
AA069841	Soil	23.6	20.6	0.72	20.8	0.002	<1	1.66	0.002	0.04	<0.1	1.6	0.02	<0.02	13	<0.1	<0.02	4.2	1.18	<0.1	0.13
AA069842	Soil	23.5	16.3	0.53	24.4	0.004	<1	1.32	0.005	0.03	0.1	1.5	0.03	<0.02	14	<0.1	0.04	3.5	0.75	<0.1	0.02
AA069843	Soil	20.5	19.8	0.64	22.5	0.001	<1	1.48	0.002	0.03	<0.1	1.3	0.04	<0.02	15	<0.1	0.03	4.1	1.00	<0.1	0.10
AA069844	Soil	22.4	22.4	0.74	18.9	0.002	<1	1.60	0.002	0.04	<0.1	1.5	0.03	<0.02	<5	<0.1	<0.02	4.4	1.06	<0.1	0.16
AA069845	Soil	29.4	23.9	0.72	22.4	0.004	<1	1.69	0.003	0.04	<0.1	1.7	0.04	<0.02	11	<0.1	0.02	4.4	0.96	<0.1	0.03
AA069846	Soil	23.8	28.2	0.83	24.8	0.004	<1	2.10	0.002	0.03	<0.1	1.5	0.05	0.02	22	<0.1	0.04	6.4	0.96	<0.1	0.07
AA069847	Soil	10.2	22.6	0.52	28.5	0.003	5	1.53	0.004	0.03	<0.1	1.2	0.04	0.12	57	0.3	0.05	4.9	1.96	<0.1	0.14
AA069848	Soil	29.4	35.9	1.06	32.2	0.002	<1	2.52	0.004	0.04	<0.1	2.7	0.06	0.03	12	<0.1	0.08	7.4	3.86	<0.1	0.06
AA069849	Soil	20.3	37.9	1.15	26.2	0.001	<1	2.73	0.004	0.03	<0.1	3.0	0.05	0.03	44	<0.1	0.05	7.3	2.52	<0.1	0.11
AA069850	Soil	18.8	39.5	1.18	19.2	0.001	<1	2.70	0.004	0.03	<0.1	2.7	0.03	0.03	29	<0.1	0.08	7.5	2.76	<0.1	0.13



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**Project:** None Given  
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# CERTIFICATE OF ANALYSIS

WHI16000180.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA069831	Soil	0.09	6.6	0.7	<0.05	1.8	3.72	46.7	<0.02	<1	0.8	26.6	<10	<2
AA069832	Soil	0.04	2.4	1.1	<0.05	2.4	3.19	40.2	0.03	<1	0.6	52.0	<10	<2
AA069833	Soil	0.04	1.8	0.9	<0.05	13.5	11.37	34.4	<0.02	<1	0.3	10.0	<10	<2
AA069834	Soil	0.09	3.4	0.9	<0.05	2.7	8.20	40.7	0.03	<1	0.6	47.3	<10	3
AA069835	Soil	0.08	4.1	0.9	<0.05	1.9	6.11	25.6	0.02	<1	0.3	42.7	<10	3
AA069836	Soil	0.07	4.4	1.1	<0.05	3.7	4.10	33.7	<0.02	<1	0.3	34.8	<10	<2
AA069837	Soil	0.03	2.7	0.6	<0.05	2.1	3.48	41.0	<0.02	<1	0.3	39.7	<10	<2
AA069838	Soil	0.05	3.4	1.0	<0.05	2.2	3.33	42.3	<0.02	<1	0.4	29.1	<10	2
AA069839	Soil	<0.02	2.3	0.5	<0.05	13.5	4.17	45.6	<0.02	<1	0.4	55.8	<10	<2
AA069840	Soil	0.06	2.5	1.2	<0.05	3.4	5.53	45.2	<0.02	<1	0.2	29.9	<10	<2
AA069841	Soil	<0.02	2.4	0.4	<0.05	9.6	4.75	40.3	<0.02	<1	0.4	54.8	<10	<2
AA069842	Soil	0.06	2.5	1.0	<0.05	2.5	4.08	43.7	<0.02	<1	0.7	40.8	<10	<2
AA069843	Soil	<0.02	2.1	0.4	<0.05	8.9	4.59	37.2	<0.02	<1	0.5	46.5	<10	<2
AA069844	Soil	<0.02	2.1	0.5	<0.05	11.2	4.41	40.8	<0.02	<1	0.2	53.3	<10	<2
AA069845	Soil	0.05	3.2	0.6	<0.05	2.4	5.13	52.6	<0.02	<1	0.5	51.4	<10	<2
AA069846	Soil	0.17	5.0	0.6	<0.05	2.8	2.52	42.6	<0.02	<1	0.5	65.9	<10	<2
AA069847	Soil	0.17	4.4	0.7	<0.05	4.3	2.48	17.3	0.02	<1	<0.1	37.1	<10	<2
AA069848	Soil	0.05	4.5	0.6	<0.05	3.1	3.97	49.3	0.04	<1	0.6	89.0	<10	<2
AA069849	Soil	0.03	2.8	1.5	<0.05	4.4	4.86	37.1	0.03	<1	0.4	89.9	<10	<2
AA069850	Soil	0.02	2.5	0.6	<0.05	4.3	3.62	35.1	0.03	<1	0.3	94.8	<10	<2



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Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
AA069507	Soil	0.88	80.99	56.81	104.8	154	45.8	37.0	677	4.47	17.4	5.2	1.3	14.9	11.4	0.06	0.75	0.68	21	0.06	0.067
REP AA069507	QC	0.90	79.16	54.91	107.2	154	46.8	36.2	663	4.49	17.0	5.2	1.2	15.0	11.6	0.06	0.76	0.66	21	0.06	0.069
AA069851	Soil	1.38	86.76	62.37	127.9	75	60.6	29.3	1169	5.45	16.2	2.0	2.7	12.8	17.1	0.16	1.03	0.48	14	0.33	0.140
REP AA069851	QC	1.34	83.79	60.88	124.3	75	58.2	28.7	1140	5.41	15.5	2.0	1.7	12.6	16.9	0.15	0.99	0.47	14	0.32	0.135
AA069896	Soil	0.60	55.70	31.22	104.8	45	51.9	22.1	1222	5.03	50.0	1.8	5.2	6.6	6.0	0.04	0.64	0.50	19	0.05	0.055
REP AA069896	QC	0.61	54.89	30.53	108.0	46	51.0	21.3	1209	4.98	48.9	1.8	5.3	6.4	6.2	0.05	0.62	0.50	19	0.05	0.055
AA070563	Soil	0.65	57.48	40.16	103.6	28	51.2	27.2	1132	4.84	48.4	2.3	7.0	9.1	6.2	0.04	0.58	0.44	18	0.04	0.033
REP AA070563	QC	0.64	58.48	39.81	107.0	29	50.8	27.2	1130	4.80	47.0	2.3	8.0	9.0	6.1	0.07	0.55	0.43	18	0.04	0.035
AA069699	Soil	0.69	57.73	59.85	117.5	76	43.5	27.9	1016	4.52	43.1	2.9	7.3	17.2	11.9	0.11	1.20	0.68	14	0.13	0.053
REP AA069699	QC	0.62	57.77	56.86	111.1	72	43.0	28.2	956	4.43	41.6	2.8	5.3	16.7	11.8	0.10	1.15	0.66	14	0.13	0.049
AA070623	Soil	0.33	11.28	10.49	52.5	135	17.3	6.1	182	2.22	6.1	0.6	0.3	1.9	6.1	0.08	0.20	0.20	11	0.05	0.052
REP AA070623	QC	0.39	11.06	11.09	52.6	138	17.4	6.6	183	2.24	6.3	0.6	<0.2	2.0	6.5	0.09	0.20	0.22	11	0.05	0.053
AA069917	Soil	0.61	53.60	34.30	110.2	70	52.7	23.3	1016	5.00	63.8	2.2	9.0	8.2	8.0	0.05	0.70	0.55	19	0.07	0.047
REP AA069917	QC	0.58	53.17	34.08	105.7	65	52.3	23.0	1009	5.03	64.3	2.2	9.8	8.7	8.1	0.03	0.72	0.57	18	0.08	0.046
AA069567	Soil	0.73	62.06	43.79	101.5	132	67.0	36.7	946	4.64	16.2	2.5	1.6	13.2	88.2	0.13	0.82	0.53	23	0.32	0.076
REP AA069567	QC	0.68	63.37	44.29	103.4	132	66.9	36.2	928	4.67	16.8	2.6	2.1	13.6	87.5	0.14	0.84	0.56	24	0.33	0.074
AA069823	Soil	0.39	43.68	45.79	96.9	122	37.9	22.8	953	4.05	10.6	1.6	6.2	17.5	29.8	0.09	1.21	0.54	11	0.32	0.063
REP AA069823	QC	0.39	44.02	47.23	96.8	128	39.1	24.0	997	4.16	10.7	1.7	6.0	18.6	30.4	0.10	1.21	0.56	12	0.33	0.065
AA069850	Soil	0.65	70.93	60.10	106.6	87	46.0	30.2	1292	4.84	50.7	2.1	12.2	7.1	6.7	0.09	0.59	0.58	20	0.07	0.043
REP AA069850	QC	0.60	71.90	60.64	109.1	95	46.4	29.3	1278	4.82	53.0	2.1	10.7	7.3	6.6	0.06	0.64	0.58	20	0.07	0.044
Reference Materials																					
STD DS10	Standard	15.55	161.75	153.94	370.3	1953	77.8	13.4	920	2.82	47.3	2.9	109.1	8.7	74.7	2.67	10.76	14.02	45	1.09	0.077
STD DS10	Standard	15.30	161.48	146.20	362.6	1918	77.7	13.3	906	2.81	47.6	2.6	72.7	7.7	67.1	2.78	9.68	12.17	45	1.09	0.075
STD DS10	Standard	16.07	169.85	155.01	364.5	1910	77.6	13.7	873	2.83	45.9	2.8	81.5	8.2	63.1	2.87	9.79	13.32	45	1.10	0.074
STD DS10	Standard	15.38	166.81	155.72	367.5	1802	77.9	13.4	902	2.75	44.2	3.0	72.5	8.8	68.4	2.55	9.90	13.35	42	1.06	0.072
STD DS10	Standard	15.63	158.39	149.80	368.7	1943	77.6	13.5	925	2.83	45.4	2.7	80.9	8.1	65.3	2.45	8.58	11.78	46	1.08	0.075
STD DS10	Standard	15.47	160.05	142.26	379.4	1897	77.3	13.5	891	2.82	47.6	2.7	83.8	7.4	67.0	2.77	9.94	12.10	46	1.07	0.074
STD DS10	Standard	15.29	156.82	152.02	379.8	1997	74.9	12.9	865	2.85	46.7	2.8	80.2	8.3	71.4	2.64	9.68	12.75	46	1.06	0.075



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Project: None Given  
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# QUALITY CONTROL REPORT

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
Pulp Duplicates																					
AA069507	Soil	26.8	34.6	0.97	21.9	0.007	<1	2.30	0.004	0.04	<0.1	2.4	0.05	<0.02	26	0.2	0.04	6.1	1.51	<0.1	0.05
REP AA069507	QC	27.2	33.7	0.97	22.0	0.007	<1	2.31	0.004	0.04	<0.1	2.4	0.05	<0.02	22	0.2	0.06	6.2	1.52	<0.1	0.06
AA069851	Soil	28.4	30.2	0.93	41.0	<0.001	<1	2.09	0.005	0.03	<0.1	4.4	0.07	<0.02	54	0.4	0.06	5.2	1.14	<0.1	0.04
REP AA069851	QC	27.6	28.9	0.90	39.6	<0.001	<1	2.04	0.004	0.03	<0.1	4.3	0.07	<0.02	64	0.7	0.05	5.2	1.14	<0.1	0.05
AA069896	Soil	17.2	39.0	1.23	21.6	<0.001	<1	2.74	0.004	0.03	<0.1	2.5	0.03	<0.02	6	0.1	0.09	7.6	2.39	<0.1	0.12
REP AA069896	QC	18.2	38.3	1.21	21.0	<0.001	<1	2.69	0.006	0.03	<0.1	2.5	0.03	<0.02	8	0.2	0.07	7.4	2.36	<0.1	0.16
AA070563	Soil	13.5	40.0	1.10	19.3	<0.001	<1	2.70	0.005	0.03	<0.1	2.4	0.02	<0.02	16	<0.1	0.07	7.1	1.55	<0.1	0.07
REP AA070563	QC	13.1	39.7	1.10	19.5	<0.001	1	2.68	0.005	0.03	<0.1	2.4	0.02	<0.02	12	<0.1	0.06	7.7	1.57	<0.1	0.05
AA069699	Soil	15.2	28.0	0.84	35.9	0.002	<1	2.18	0.003	0.04	<0.1	1.6	0.04	<0.02	10	<0.1	0.08	5.2	0.75	<0.1	0.07
REP AA069699	QC	14.4	26.2	0.82	35.2	0.002	<1	2.10	0.003	0.04	<0.1	1.6	0.04	<0.02	8	0.1	0.07	4.9	0.70	<0.1	0.05
AA070623	Soil	11.3	15.2	0.36	27.5	0.004	<1	1.19	0.010	0.04	<0.1	0.6	0.03	0.03	19	<0.1	0.03	3.8	0.41	<0.1	0.02
REP AA070623	QC	12.0	15.3	0.38	27.9	0.004	<1	1.21	0.012	0.05	<0.1	0.7	0.03	0.03	15	<0.1	0.03	3.9	0.45	<0.1	0.05
AA069917	Soil	23.4	35.9	1.25	15.8	0.001	<1	2.68	0.004	0.03	<0.1	2.6	0.02	<0.02	7	<0.1	0.12	7.5	1.48	0.1	0.08
REP AA069917	QC	23.8	36.4	1.26	15.5	0.001	<1	2.67	0.003	0.03	<0.1	2.6	0.02	<0.02	7	<0.1	0.07	7.4	1.54	<0.1	0.08
AA069567	Soil	24.1	37.0	1.11	47.1	0.008	<1	2.23	0.005	0.05	<0.1	3.6	0.04	0.02	22	0.2	0.06	6.2	0.75	0.2	0.11
REP AA069567	QC	26.1	37.4	1.12	48.1	0.008	<1	2.31	0.005	0.05	<0.1	3.7	0.05	0.02	28	0.1	0.06	6.2	0.74	0.1	0.11
AA069823	Soil	14.1	20.9	0.65	29.4	0.002	2	1.62	0.003	0.03	<0.1	3.7	0.03	<0.02	21	<0.1	<0.02	4.3	0.67	<0.1	0.13
REP AA069823	QC	15.7	21.7	0.68	30.6	0.002	<1	1.70	0.003	0.04	<0.1	3.8	0.03	<0.02	21	<0.1	0.03	4.6	0.70	<0.1	0.14
AA069850	Soil	18.8	39.5	1.18	19.2	0.001	<1	2.70	0.004	0.03	<0.1	2.7	0.03	0.03	29	<0.1	0.08	7.5	2.76	<0.1	0.13
REP AA069850	QC	18.8	39.4	1.16	18.5	<0.001	<1	2.67	0.004	0.03	<0.1	2.6	0.03	0.03	34	<0.1	0.11	7.6	2.82	<0.1	0.12
Reference Materials																					
STD DS10	Standard	21.0	59.1	0.78	380.4	0.090	6	1.06	0.074	0.34	3.3	3.0	5.22	0.29	293	2.3	5.13	4.4	2.80	<0.1	0.05
STD DS10	Standard	18.7	56.7	0.79	360.3	0.082	7	1.11	0.077	0.35	3.4	2.9	5.19	0.28	286	2.4	5.09	4.7	2.84	<0.1	0.05
STD DS10	Standard	19.2	58.9	0.79	358.0	0.085	6	1.09	0.075	0.35	3.5	3.1	5.42	0.28	321	2.5	5.13	4.4	2.85	<0.1	0.05
STD DS10	Standard	20.2	59.4	0.78	344.8	0.091	8	1.06	0.073	0.34	3.2	2.7	5.08	0.28	312	2.1	4.82	4.3	2.61	<0.1	0.07
STD DS10	Standard	18.5	58.6	0.79	366.6	0.081	7	1.09	0.077	0.35	3.4	3.1	5.18	0.28	276	2.3	5.06	4.5	2.67	0.1	0.05
STD DS10	Standard	18.5	56.7	0.78	362.5	0.085	7	1.09	0.073	0.34	3.3	3.1	5.05	0.27	275	2.4	4.93	4.5	2.86	<0.1	0.04
STD DS10	Standard	19.1	54.1	0.80	358.0	0.086	6	1.06	0.071	0.34	3.2	3.0	5.43	0.28	309	1.8	4.86	4.3	2.74	<0.1	0.06



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Project: None Given  
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# QUALITY CONTROL REPORT

WHI16000180.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates														
AA069507	Soil	0.14	4.1	0.3	<0.05	3.0	7.92	43.4	0.03	<1	0.4	86.3	<10	<2
REP AA069507	QC	0.14	3.9	0.2	<0.05	3.1	7.74	46.4	0.03	<1	0.6	85.9	<10	<2
AA069851	Soil	<0.02	2.8	0.3	<0.05	2.6	15.48	47.0	0.05	<1	0.5	68.5	<10	<2
REP AA069851	QC	0.03	2.8	0.2	<0.05	2.2	15.06	45.9	0.04	<1	0.5	66.0	<10	2
AA069896	Soil	0.04	3.1	<0.1	<0.05	4.5	3.97	31.3	0.02	<1	0.4	94.0	<10	<2
REP AA069896	QC	0.03	3.2	<0.1	<0.05	4.4	3.90	32.8	0.03	<1	0.4	90.8	<10	<2
AA070563	Soil	0.03	2.5	0.4	<0.05	2.7	2.61	25.6	<0.02	<1	0.2	85.0	<10	<2
REP AA070563	QC	0.02	2.6	0.4	<0.05	2.4	2.55	24.7	<0.02	<1	0.3	87.0	<10	<2
AA069699	Soil	0.07	4.1	1.0	<0.05	2.6	3.73	29.4	0.03	<1	0.5	66.9	<10	<2
REP AA069699	QC	0.06	3.9	0.9	<0.05	2.5	3.56	27.1	0.04	<1	0.5	64.4	<10	<2
AA070623	Soil	0.15	4.7	0.3	<0.05	1.1	1.33	20.3	<0.02	<1	0.1	33.0	<10	<2
REP AA070623	QC	0.17	4.9	0.4	<0.05	1.2	1.40	22.9	<0.02	<1	<0.1	37.0	<10	<2
AA069917	Soil	0.02	2.2	0.2	<0.05	3.2	3.71	42.9	<0.02	<1	0.3	97.0	<10	<2
REP AA069917	QC	<0.02	2.1	0.2	<0.05	3.2	3.67	43.3	0.02	<1	0.4	96.4	<10	<2
AA069567	Soil	0.15	3.1	0.6	<0.05	6.8	10.03	43.6	0.03	<1	0.8	69.8	<10	<2
REP AA069567	QC	0.15	3.3	0.6	<0.05	6.9	10.16	46.3	0.03	<1	0.5	71.4	<10	<2
AA069823	Soil	0.02	1.9	1.3	<0.05	8.3	11.55	27.4	0.03	<1	0.3	58.9	<10	<2
REP AA069823	QC	0.03	2.0	1.4	<0.05	8.4	11.56	30.3	0.04	<1	0.6	63.2	<10	<2
AA069850	Soil	0.02	2.5	0.6	<0.05	4.3	3.62	35.1	0.03	<1	0.3	94.8	<10	<2
REP AA069850	QC	<0.02	2.5	0.6	<0.05	4.4	3.72	34.8	0.02	<1	0.2	97.5	<10	<2
Reference Materials														
STD DS10	Standard	1.62	28.6	1.7	<0.05	2.6	8.80	39.3	0.27	53	0.8	18.9	107	193
STD DS10	Standard	1.66	30.1	1.7	<0.05	2.8	8.36	37.2	0.24	48	0.7	18.4	99	179
STD DS10	Standard	1.78	29.3	1.7	<0.05	2.7	8.12	37.4	0.25	54	0.8	20.5	102	188
STD DS10	Standard	1.68	27.7	1.7	<0.05	2.6	8.25	37.8	0.27	53	0.5	19.6	107	182
STD DS10	Standard	1.53	29.5	1.5	<0.05	2.7	7.86	36.5	0.23	55	0.7	19.2	125	182
STD DS10	Standard	1.56	30.1	1.6	<0.05	2.5	8.11	36.6	0.24	48	0.6	20.2	96	176
STD DS10	Standard	1.48	28.0	1.5	<0.05	2.5	8.17	36.4	0.26	59	0.5	19.4	108	190



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MINERAL LABORATORIES Canada

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Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

Client: Golden Predator Mining Corp.
510 - 580 Hornby Street
Vancouver British Columbia V6C 3B6 Canada

Project: None Given
Report Date: September 12, 2016

Page: 2 of 2

Part: 1 of 3

QUALITY CONTROL REPORT

WHI16000180.1

Table with 21 columns (AQ251 Mo to AQ251 P) and 22 rows (STD DS10, STD DS10, STD DS10, STD OXC129, STD OXC129, STD OXC129, STD OXC129, STD OXC129, STD OXC129, STD OXC129, STD OXC129, STD OXC129, STD OXC129, STD OXC129, STD OXC129, STD DS10 Expected, STD OXC129 Expected, BLK, BLK, BLK, BLK, BLK, BLK, BLK, BLK, BLK, BLK, BLK). Each row contains numerical values for various elements and standards.

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.



Bureau Veritas Commodities Canada Ltd.

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PHONE (604) 253-3158

**Client:** Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

**Project:** None Given  
**Report Date:** September 12, 2016

**Page:** 2 of 2

**Part:** 2 of 3

# QUALITY CONTROL REPORT

# WHI16000180.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
STD DS10	Standard	17.7	54.4	0.78	336.1	0.082	8	1.05	0.074	0.34	3.1	3.0	5.13	0.29	277	2.1	4.70	4.5	2.65	<0.1	0.06
STD DS10	Standard	20.7	57.9	0.81	391.4	0.089	7	1.10	0.072	0.34	3.6	3.0	5.20	0.29	307	2.5	4.95	5.0	2.77	<0.1	0.07
STD DS10	Standard	20.5	57.7	0.81	391.9	0.087	6	1.04	0.078	0.36	3.4	3.0	5.30	0.29	290	2.3	5.11	4.9	2.84	0.1	0.06
STD OXC129	Standard	14.4	57.7	1.57	50.3	0.476	1	1.65	0.611	0.38	<0.1	1.0	0.03	<0.02	<5	<0.1	<0.02	5.5	0.17	0.1	0.25
STD OXC129	Standard	12.6	54.0	1.57	52.0	0.410	1	1.66	0.611	0.38	<0.1	0.8	0.03	<0.02	<5	<0.1	<0.02	5.6	0.17	<0.1	0.25
STD OXC129	Standard	13.2	55.0	1.55	52.0	0.420	2	1.62	0.603	0.38	<0.1	0.8	0.03	<0.02	<5	<0.1	<0.02	5.5	0.17	<0.1	0.28
STD OXC129	Standard	14.4	56.4	1.52	49.8	0.454	1	1.63	0.615	0.40	<0.1	1.1	0.03	<0.02	<5	<0.1	<0.02	5.3	0.16	0.1	0.31
STD OXC129	Standard	12.7	53.6	1.54	50.3	0.398	<1	1.65	0.608	0.38	0.1	1.7	0.04	<0.02	<5	<0.1	<0.02	5.6	0.17	<0.1	0.30
STD OXC129	Standard	12.8	51.8	1.52	52.4	0.394	2	1.56	0.580	0.35	<0.1	0.8	0.03	<0.02	<5	0.2	<0.02	5.5	0.16	<0.1	0.28
STD OXC129	Standard	12.7	49.1	1.45	49.2	0.412	<1	1.50	0.572	0.36	<0.1	1.1	0.03	<0.02	<5	<0.1	<0.02	5.2	0.15	0.1	0.23
STD OXC129	Standard	13.2	52.3	1.49	49.8	0.398	2	1.52	0.595	0.39	<0.1	1.0	0.03	<0.02	<5	<0.1	<0.02	5.2	0.16	<0.1	0.25
STD OXC129	Standard	13.2	52.8	1.51	47.6	0.413	2	1.56	0.584	0.35	<0.1	1.1	0.03	<0.02	<5	<0.1	<0.02	5.8	0.16	0.1	0.26
STD OXC129	Standard	13.8	54.5	1.54	53.2	0.428	<1	1.61	0.592	0.37	<0.1	1.1	0.03	<0.02	<5	<0.1	<0.02	5.6	0.17	0.1	0.25
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0259	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	2.63	0.08	0.06
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6	0.16		0.24
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	0.2	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	0.2	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	0.1	<0.02	<0.1	<0.02



# QUALITY CONTROL REPORT

WHI16000180.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
STD DS10	Standard	1.39	28.0	1.7	<0.05	2.4	8.26	35.9	0.26	37	0.5	19.9	104	183
STD DS10	Standard	1.67	29.3	1.8	<0.05	2.7	8.55	40.3	0.21	61	0.6	19.9	103	180
STD DS10	Standard	1.73	29.7	1.7	<0.05	2.6	8.34	41.0	0.24	60	0.5	19.7	112	198
STD OXC129	Standard	1.53	15.9	0.8	<0.05	22.9	5.16	24.3	<0.02	<1	1.1	2.0	<10	<2
STD OXC129	Standard	1.66	16.8	0.7	<0.05	22.0	5.01	22.8	<0.02	<1	1.1	2.2	<10	<2
STD OXC129	Standard	1.64	15.7	0.7	<0.05	21.3	4.71	23.1	<0.02	<1	0.9	2.1	<10	<2
STD OXC129	Standard	1.67	15.3	0.7	<0.05	23.4	4.90	24.2	<0.02	<1	0.7	2.2	<10	<2
STD OXC129	Standard	1.38	16.8	0.7	<0.05	23.5	4.58	23.2	<0.02	<1	1.1	2.6	<10	<2
STD OXC129	Standard	2.14	16.2	0.7	<0.05	24.2	4.64	23.1	<0.02	<1	0.9	2.1	<10	<2
STD OXC129	Standard	1.39	15.0	0.7	<0.05	20.5	4.66	22.3	<0.02	<1	0.6	1.8	<10	<2
STD OXC129	Standard	1.53	15.7	0.8	<0.05	19.4	4.74	23.2	<0.02	<1	0.6	2.3	<10	<2
STD OXC129	Standard	1.77	14.7	0.6	<0.05	22.1	4.61	23.4	<0.02	<1	0.8	2.0	<10	<2
STD OXC129	Standard	1.34	15.7	0.7	<0.05	22.6	4.82	25.0	<0.02	<1	0.9	2.0	<10	<2
STD DS10 Expected		1.62	27.7	1.6		2.7	7.77	37	0.23	50	0.63	19.4	110	191
STD OXC129 Expected		1.4		0.7		21	4.7	23.7			0.8	2.22		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

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**Client:** **Golden Predator Mining Corp.**  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

Submitted By: M. Burke  
Receiving Lab: Canada-Whitehorse  
Received: August 16, 2016  
Report Date: September 08, 2016  
Page: 1 of 11

# CERTIFICATE OF ANALYSIS

WHI16000181.1

## CLIENT JOB INFORMATION

Project: None Given  
Shipment ID:  
P.O. Number NA-16176  
Number of Samples: 280

## SAMPLE DISPOSAL

DISP-PLP Dispose of Pulp After 90 days  
DISP-RJT Dispose of Reject After 90 days

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: Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6  
Canada

CC:

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	280	Dry at 60C			WHI
SS80	280	Dry at 60C sieve 100g to -80 mesh			WHI
AQ251_EXT	278	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
SHP01	280	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:** None Given  
**Report Date:** September 08, 2016

**Page:** 2 of 11

**Part:** 1 of 3

# CERTIFICATE OF ANALYSIS

# WHI16000181.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
AA069931	Soil	0.41	26.75	19.52	26.4	28	16.5	10.3	1209	1.53	2.2	0.3	5.9	0.5	5.5	0.07	0.12	0.22	9	0.07	0.058
AA069932	Soil	0.32	17.69	17.16	48.3	71	13.0	5.9	363	1.67	5.0	1.5	4.0	1.1	63.8	0.16	0.33	0.23	10	0.68	0.099
AA069933	Soil	0.26	10.56	8.40	19.9	57	5.2	3.4	392	0.82	1.7	1.1	3.4	0.2	66.5	0.15	0.18	0.16	7	1.15	0.094
AA069934	Soil	0.31	21.80	22.71	67.3	124	16.0	6.4	334	1.63	6.2	2.0	0.6	0.7	274.9	0.25	0.33	0.20	6	7.08	0.139
AA069935	Soil	0.83	25.16	28.85	78.1	28	25.3	10.5	390	3.97	39.5	1.2	0.7	6.1	3.7	0.04	0.54	0.51	18	0.01	0.073
AA069936	Soil	0.82	13.18	17.95	52.0	44	15.1	6.7	381	3.02	29.4	0.7	0.4	0.8	4.7	0.07	0.42	0.42	19	0.03	0.080
AA069937	Soil	0.69	24.66	44.79	84.0	29	30.4	18.3	411	3.75	22.1	1.1	2.3	12.6	2.9	0.05	0.45	0.64	13	<0.01	0.043
AA069938	Soil	0.35	19.69	45.52	68.3	30	33.4	17.7	497	3.42	29.3	1.1	3.9	11.7	36.3	0.12	0.57	0.47	10	0.44	0.030
AA069939	Soil	0.46	24.39	36.23	94.9	21	31.7	15.7	489	4.18	17.3	1.5	0.9	7.2	23.7	0.12	0.52	0.58	18	0.27	0.071
AA069940	Soil	0.30	12.14	13.90	45.0	66	11.1	5.8	376	1.85	18.1	0.6	1.6	0.7	6.5	0.10	0.22	0.26	10	0.05	0.065
AA069941	Soil	0.49	28.33	29.65	63.7	87	28.2	10.8	258	3.09	124.0	10.0	3.5	5.5	54.5	0.03	0.79	0.34	8	0.75	0.053
AA069942	Soil	0.36	40.48	32.88	81.3	99	38.0	17.0	799	3.62	21.1	1.4	4.4	12.1	35.0	0.07	0.69	0.39	10	0.53	0.047
AA069943	Soil	0.23	34.88	26.74	70.7	102	33.4	15.8	505	3.20	109.8	0.7	12.8	8.6	205.3	0.04	0.47	0.38	11	4.50	0.048
AA069944	Soil	0.39	41.81	32.90	85.6	102	37.1	14.7	397	3.48	54.8	0.8	8.7	11.5	25.4	0.05	0.48	0.40	12	0.29	0.040
AA069945	Soil	0.33	39.91	26.23	83.4	95	38.3	12.2	351	3.68	72.3	0.7	10.6	10.5	18.2	0.03	0.44	0.42	13	0.18	0.043
AA069946	Soil	0.41	33.17	24.35	79.0	56	33.6	11.6	247	3.40	22.5	7.1	3.5	9.4	29.3	0.03	0.32	0.40	12	0.16	0.045
AA069947	Soil	0.42	23.79	23.19	88.0	41	29.2	10.8	294	3.57	32.8	2.1	4.7	9.4	4.0	0.06	0.29	0.37	13	0.01	0.047
AA069948	Soil	0.51	58.91	50.81	98.3	332	38.0	20.5	628	4.38	56.0	0.9	4.0	12.0	9.2	0.08	0.69	0.69	14	0.07	0.065
AA069949	Soil	0.79	15.81	11.59	56.5	40	16.6	6.4	335	2.84	29.9	0.6	2.9	1.0	5.0	0.12	0.33	0.35	12	0.03	0.086
AA069950	Soil	0.90	12.87	9.39	43.8	50	9.5	4.7	314	1.80	16.0	0.9	3.5	0.4	5.3	0.06	0.30	0.27	12	0.02	0.079
AA069541	Soil	0.52	45.92	35.83	77.1	49	37.4	21.5	1762	3.77	32.1	0.9	5.7	3.6	3.9	0.04	0.24	0.42	17	0.04	0.067
AA069542	Soil	0.50	49.80	31.58	88.3	59	45.2	20.6	1250	4.00	29.2	1.0	8.9	5.9	5.0	0.04	0.26	0.44	16	0.07	0.049
AA069543	Soil	0.54	46.10	32.71	90.3	53	46.4	23.0	1259	4.34	36.8	1.0	8.8	5.1	4.5	0.04	0.37	0.44	17	0.06	0.062
AA069544	Soil	0.49	45.65	33.44	102.7	46	49.1	21.7	1119	4.62	59.6	1.4	14.8	6.6	5.0	0.04	0.49	0.43	18	0.07	0.048
AA069545	Soil	0.45	42.80	31.03	104.2	74	48.7	23.7	1210	5.00	32.9	1.8	5.6	5.8	4.0	0.05	0.41	0.40	19	0.02	0.050
AA069546	Soil	0.38	33.99	23.48	91.7	67	40.4	13.1	618	4.23	28.1	1.7	6.1	5.2	5.1	0.04	0.31	0.32	18	0.04	0.049
AA069547	Soil	1.74	40.25	20.44	100.0	87	45.1	17.9	492	4.28	45.1	1.3	16.7	8.0	6.3	0.05	0.41	0.36	15	0.09	0.036
AA069548	Soil	1.89	41.23	25.31	103.0	92	47.3	20.3	984	4.36	43.2	1.4	14.3	6.8	7.9	0.08	0.42	0.39	16	0.09	0.039
AA069549	Soil	0.55	60.51	32.66	109.6	106	52.6	22.5	682	4.83	17.1	2.1	3.8	9.1	4.5	0.08	0.47	0.46	20	0.09	0.057
AA069550	Soil	0.84	72.68	48.58	123.1	184	51.1	25.3	955	4.96	35.0	3.2	8.0	8.1	6.0	0.12	0.95	0.62	18	0.14	0.055



Bureau Veritas Commodities Canada Ltd.

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PHONE (604) 253-3158

**Client:** Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

**Project:** None Given  
**Report Date:** September 08, 2016

**Page:** 2 of 11

**Part:** 2 of 3

# CERTIFICATE OF ANALYSIS

# WHI16000181.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
AA069931	Soil	7.4	12.2	0.38	20.0	0.009	1	1.07	0.024	0.03	<0.1	0.6	0.03	0.02	24	0.5	0.04	3.2	0.37	<0.1	0.04
AA069932	Soil	20.1	5.2	0.09	52.6	0.011	2	0.89	0.023	0.04	<0.1	2.0	0.06	0.07	36	0.6	0.03	2.1	0.49	<0.1	0.03
AA069933	Soil	8.2	3.9	0.07	80.4	0.009	3	0.80	0.022	0.02	<0.1	0.5	0.05	0.13	53	0.3	<0.02	2.1	0.35	<0.1	0.02
AA069934	Soil	24.6	4.2	0.11	52.2	0.006	3	0.66	0.017	0.04	<0.1	1.7	0.05	0.10	70	0.8	0.07	1.1	0.28	<0.1	0.03
AA069935	Soil	10.9	24.5	0.56	31.8	0.004	<1	1.81	0.004	0.03	<0.1	0.9	0.06	0.04	25	0.5	0.04	5.9	1.16	<0.1	0.05
AA069936	Soil	9.3	19.0	0.29	31.9	0.005	<1	1.22	0.006	0.04	0.1	0.4	0.07	0.05	37	0.3	0.04	5.8	1.00	<0.1	<0.02
AA069937	Soil	10.4	23.4	0.70	26.1	0.002	<1	1.97	0.005	0.03	<0.1	1.2	0.06	0.03	31	0.5	0.07	4.8	0.88	<0.1	0.07
AA069938	Soil	12.8	20.0	0.61	33.0	<0.001	2	1.79	0.002	0.04	<0.1	1.4	0.03	<0.02	21	0.2	0.06	3.8	0.75	<0.1	0.04
AA069939	Soil	12.5	23.5	0.45	57.8	0.004	<1	1.70	0.003	0.04	<0.1	1.8	0.07	0.03	10	0.4	0.06	4.6	0.89	<0.1	0.06
AA069940	Soil	8.2	11.7	0.23	44.4	0.003	<1	1.00	0.010	0.03	<0.1	0.3	0.06	0.04	10	0.4	0.05	3.7	0.66	<0.1	<0.02
AA069941	Soil	13.7	14.5	0.38	34.3	0.001	2	1.04	0.004	0.04	<0.1	2.2	0.03	0.08	22	1.0	0.09	2.5	0.26	<0.1	0.04
AA069942	Soil	14.4	18.9	0.59	30.6	<0.001	<1	1.41	0.002	0.04	<0.1	2.9	0.02	0.04	19	0.4	0.03	3.7	0.28	<0.1	0.07
AA069943	Soil	12.6	18.5	0.77	24.6	0.001	<1	1.59	0.002	0.10	<0.1	1.8	0.02	0.05	<5	0.2	0.07	3.7	0.41	<0.1	0.02
AA069944	Soil	18.4	22.2	0.75	40.6	0.001	<1	1.80	0.003	0.08	<0.1	2.0	0.02	<0.02	14	0.3	0.07	4.4	0.37	<0.1	0.12
AA069945	Soil	19.5	24.1	0.78	59.7	<0.001	<1	1.96	0.003	0.08	<0.1	1.8	0.04	<0.02	13	0.3	0.07	4.7	0.58	<0.1	0.11
AA069946	Soil	13.7	23.8	0.68	42.7	0.002	<1	1.83	0.004	0.04	<0.1	1.6	0.03	0.03	18	0.6	0.05	4.7	0.49	<0.1	0.11
AA069947	Soil	17.6	24.6	0.67	41.5	<0.001	<1	1.82	0.003	0.05	<0.1	1.4	0.04	<0.02	11	<0.1	0.06	4.9	0.58	<0.1	0.07
AA069948	Soil	18.0	25.6	0.74	37.9	0.001	1	2.04	0.002	0.06	<0.1	1.4	0.03	0.02	19	<0.1	0.10	5.4	0.67	<0.1	0.07
AA069949	Soil	9.5	18.2	0.35	25.9	0.003	<1	0.99	0.006	0.04	<0.1	0.3	0.04	0.05	8	0.3	0.05	4.5	0.72	<0.1	0.02
AA069950	Soil	10.7	12.0	0.20	35.9	0.003	1	0.99	0.010	0.04	<0.1	0.2	0.07	0.05	32	0.3	<0.02	4.1	1.07	<0.1	<0.02
AA069541	Soil	16.2	24.9	0.94	21.5	0.005	<1	2.03	0.008	0.03	<0.1	2.0	0.04	<0.02	17	0.1	0.10	5.8	2.28	<0.1	0.07
AA069542	Soil	20.5	27.1	1.08	15.9	0.002	<1	2.25	0.005	0.03	<0.1	2.4	0.02	<0.02	<5	0.2	0.07	5.9	1.55	<0.1	0.07
AA069543	Soil	20.1	31.1	1.11	17.8	0.003	<1	2.37	0.004	0.03	<0.1	2.0	0.02	<0.02	18	0.2	0.11	6.3	1.36	<0.1	0.09
AA069544	Soil	17.6	34.1	1.13	17.1	0.001	<1	2.52	0.003	0.03	<0.1	2.2	0.02	<0.02	14	<0.1	0.08	6.9	1.36	<0.1	0.12
AA069545	Soil	11.1	37.8	1.12	22.8	<0.001	<1	2.72	0.004	0.03	<0.1	2.4	0.03	<0.02	13	0.1	0.05	7.8	2.00	<0.1	0.20
AA069546	Soil	8.2	34.5	0.96	25.1	0.002	<1	2.46	0.007	0.03	<0.1	1.9	0.03	<0.02	9	<0.1	0.06	6.7	1.79	<0.1	0.15
AA069547	Soil	23.0	30.7	1.04	15.4	<0.001	1	2.27	0.002	0.05	<0.1	2.5	0.02	<0.02	<5	0.2	0.07	5.9	0.88	<0.1	0.08
AA069548	Soil	24.4	31.7	1.05	26.4	<0.001	<1	2.34	0.003	0.04	<0.1	2.6	0.04	<0.02	<5	0.2	0.07	6.4	1.30	<0.1	0.10
AA069549	Soil	19.2	38.8	1.12	13.5	0.002	<1	2.59	0.003	0.03	<0.1	2.7	<0.02	<0.02	<5	<0.1	0.06	7.5	1.40	<0.1	0.05
AA069550	Soil	18.7	34.9	1.00	22.4	0.002	<1	2.34	0.003	0.04	<0.1	2.9	0.04	0.02	35	0.3	0.07	6.7	2.75	<0.1	0.12



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**Project:** None Given  
**Report Date:** September 08, 2016

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**Part:** 3 of 3

# CERTIFICATE OF ANALYSIS

WHI16000181.1

Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
AA069931	Soil	0.11	1.6	0.9	<0.05	1.5	2.50	15.2	0.03	<1	<0.1	28.3	<10	<2
AA069932	Soil	0.34	4.8	0.6	<0.05	1.7	9.15	36.9	<0.02	2	0.1	4.4	<10	<2
AA069933	Soil	0.42	1.7	0.4	<0.05	1.7	3.76	15.2	<0.02	<1	0.3	3.0	<10	<2
AA069934	Soil	0.25	4.0	1.9	<0.05	1.9	11.37	44.7	<0.02	<1	0.4	3.1	<10	<2
AA069935	Soil	0.33	5.7	0.9	<0.05	1.3	1.31	19.7	<0.02	<1	<0.1	46.0	<10	<2
AA069936	Soil	0.25	5.6	1.7	<0.05	0.3	1.10	16.8	<0.02	<1	<0.1	24.5	<10	<2
AA069937	Soil	0.12	4.4	1.0	<0.05	2.2	1.52	19.6	<0.02	<1	<0.1	58.5	<10	<2
AA069938	Soil	0.03	3.7	1.5	<0.05	1.6	2.95	28.9	<0.02	<1	0.4	51.8	<10	<2
AA069939	Soil	0.28	5.6	1.6	<0.05	1.6	3.34	38.5	0.04	<1	0.3	42.1	<10	<2
AA069940	Soil	0.16	5.4	1.0	<0.05	0.6	0.85	15.6	<0.02	<1	<0.1	19.4	<10	<2
AA069941	Soil	0.09	2.7	2.0	<0.05	2.0	10.18	25.5	0.02	<1	0.3	29.9	<10	2
AA069942	Soil	<0.02	1.9	1.7	<0.05	2.9	8.27	27.1	0.03	<1	0.5	42.6	<10	<2
AA069943	Soil	<0.02	2.5	0.7	<0.05	2.0	3.83	22.3	<0.02	<1	0.4	49.7	<10	<2
AA069944	Soil	0.02	3.3	2.2	<0.05	4.4	4.65	33.2	<0.02	<1	0.2	55.2	<10	<2
AA069945	Soil	0.05	4.9	1.6	<0.05	4.2	4.31	34.2	<0.02	<1	0.4	57.4	<10	<2
AA069946	Soil	0.09	3.8	0.7	<0.05	2.9	4.59	25.6	<0.02	<1	0.3	56.9	<10	<2
AA069947	Soil	0.05	4.8	0.7	<0.05	3.1	2.61	32.8	<0.02	<1	<0.1	54.0	<10	<2
AA069948	Soil	0.05	4.9	1.0	<0.05	2.4	2.59	33.5	0.03	<1	0.2	56.4	<10	<2
AA069949	Soil	0.11	5.9	1.5	<0.05	0.5	0.78	16.8	<0.02	<1	<0.1	27.3	<10	<2
AA069950	Soil	0.19	7.4	0.6	<0.05	0.5	1.15	20.1	<0.02	<1	0.1	14.1	<10	2
AA069541	Soil	0.08	3.3	0.5	<0.05	2.8	3.17	29.6	0.02	<1	0.4	67.6	<10	<2
AA069542	Soil	0.04	2.1	0.5	<0.05	2.5	3.62	37.3	0.03	<1	0.5	80.2	<10	<2
AA069543	Soil	0.06	2.5	0.8	<0.05	3.8	3.75	36.2	<0.02	<1	0.4	81.0	<10	<2
AA069544	Soil	<0.02	2.1	0.5	<0.05	4.2	3.22	31.8	<0.02	<1	0.4	85.3	<10	<2
AA069545	Soil	0.04	2.8	0.6	<0.05	5.5	2.88	22.0	<0.02	<1	0.3	84.8	<10	<2
AA069546	Soil	0.05	2.7	0.4	<0.05	4.5	2.06	16.4	<0.02	<1	<0.1	73.1	<10	<2
AA069547	Soil	<0.02	1.9	0.6	<0.05	4.7	4.82	41.9	0.02	<1	0.2	76.7	<10	<2
AA069548	Soil	<0.02	3.1	0.7	<0.05	4.1	4.79	43.2	<0.02	<1	0.6	80.1	<10	<2
AA069549	Soil	0.03	1.6	0.8	<0.05	2.4	3.63	33.6	0.02	<1	0.2	85.2	<10	2
AA069550	Soil	0.05	2.9	0.6	<0.05	4.0	6.22	33.1	0.03	<1	0.3	71.7	<10	<2



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**Project:** None Given  
**Report Date:** September 08, 2016

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**Part:** 1 of 3

# CERTIFICATE OF ANALYSIS

# WHI16000181.1

Method	Analyte	AQ251																				
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
AA069601	Soil	0.63	39.17	21.45	97.3	94	43.3	14.5	478	4.15	23.4	3.1	6.8	5.8	7.2	0.02	0.49	0.42	16	0.19	0.046	
AA069602	Soil	0.55	66.35	48.78	115.3	106	53.9	28.8	1575	4.90	34.3	1.6	3.4	9.6	6.8	0.09	0.89	0.70	18	0.16	0.066	
AA069603	Soil	0.77	92.83	66.83	115.3	226	54.4	37.4	1282	5.02	39.9	3.5	7.0	8.5	6.7	0.12	1.46	0.87	16	0.18	0.053	
AA069604	Soil	1.25	63.13	67.56	108.3	135	41.0	27.9	950	4.15	80.5	2.1	16.3	8.9	15.3	0.09	2.09	0.70	14	0.04	0.040	
AA069605	Soil	0.77	47.24	38.64	68.8	104	23.0	14.7	439	2.98	75.7	2.2	10.0	8.7	11.2	0.04	0.86	0.37	13	0.05	0.081	
AA069606	Soil	0.95	70.84	67.86	100.0	223	34.5	45.1	1696	3.66	171.0	4.1	17.4	10.4	11.3	0.13	1.50	0.50	15	0.05	0.092	
AA069607	Soil	1.93	54.84	69.65	94.7	172	37.7	28.6	486	3.44	206.5	4.3	37.5	19.9	36.9	0.14	2.00	0.53	8	0.11	0.037	
AA069608	Soil	1.24	55.64	56.17	105.0	103	30.0	22.6	1197	4.40	74.7	2.5	6.4	6.5	15.0	0.08	1.15	0.58	21	0.03	0.113	
AA069609	Soil	0.44	30.92	44.09	65.7	34	31.1	18.6	955	3.60	44.1	0.5	1.2	7.5	3.9	0.03	0.30	0.63	14	0.01	0.055	
AA069610	Soil	0.53	48.08	64.33	102.0	235	45.2	35.6	962	3.49	213.8	2.5	25.1	18.2	22.3	0.19	1.70	0.47	9	0.18	0.045	
AA069611	Soil	0.32	57.16	69.82	79.6	144	44.4	46.0	1460	3.16	180.4	1.9	32.4	18.3	13.5	0.11	0.58	0.72	9	0.09	0.036	
AA069612	Soil	12.11	55.70	35.49	98.8	225	46.7	18.8	511	4.32	102.6	1.9	2.1	12.3	61.2	0.53	4.17	0.51	5	5.74	0.086	
AA069613	Soil	0.76	51.29	54.46	94.4	273	39.9	24.4	753	4.01	435.1	5.5	45.2	12.3	37.4	0.12	1.19	0.57	12	0.39	0.078	
AA069614	Soil	0.62	39.28	35.74	86.3	132	38.3	20.2	501	3.42	140.3	2.9	15.7	11.7	21.3	0.06	0.78	0.50	12	0.18	0.053	
AA069615	Soil	0.32	48.25	29.61	100.5	59	44.2	30.4	410	3.67	52.5	1.4	2.9	19.2	10.1	0.03	0.60	0.55	12	0.11	0.051	
AA069616	Soil	0.34	53.80	33.09	105.1	75	53.5	41.9	468	3.63	65.6	1.4	2.7	22.2	9.6	0.03	0.72	0.61	11	0.11	0.048	
AA069617	Soil	0.59	16.48	21.47	45.9	43	13.4	7.0	507	2.13	11.1	0.7	2.0	0.9	4.5	0.08	0.34	0.25	14	0.03	0.068	
AA069618	Soil	0.55	31.89	34.93	79.6	82	28.6	13.0	376	3.35	37.3	2.5	4.3	9.3	14.2	0.04	0.51	0.41	12	0.14	0.056	
AA069619	Soil	0.54	35.34	29.60	73.3	70	37.0	13.3	391	3.33	17.3	2.6	1.6	6.5	39.8	0.04	0.51	0.46	15	0.30	0.072	
AA069620	Soil	0.54	54.71	38.41	92.5	95	43.2	22.5	450	3.88	21.8	1.8	1.8	8.7	24.2	0.06	0.62	0.77	13	0.24	0.044	
AA069621	Soil	0.82	80.94	61.95	99.0	169	75.1	41.5	1083	4.71	39.9	8.8	11.9	7.2	68.0	0.14	0.76	0.63	33	0.70	0.110	
AA069622	Soil	0.86	53.03	31.70	88.5	51	131.4	38.8	1067	4.93	62.4	1.9	3.4	6.4	214.9	0.15	0.64	0.49	49	0.49	0.114	
AA069623	Soil	0.35	26.16	32.68	62.0	161	33.9	14.3	1428	3.33	48.4	0.7	21.6	13.9	17.8	0.05	2.26	0.33	7	0.22	0.041	
AA069624	Soil	0.57	47.27	48.37	77.4	73	27.1	7.1	179	3.96	23.9	2.5	3.5	21.7	13.3	0.03	1.57	0.39	10	0.14	0.049	
AA069625	Soil	0.79	44.05	51.91	91.9	142	36.6	19.5	704	3.51	243.1	2.3	21.5	12.3	21.9	0.10	1.12	0.54	11	0.14	0.049	
AA069626	Soil	0.93	51.51	40.18	122.1	138	73.0	30.7	987	4.87	82.0	2.7	4.0	13.2	88.0	0.22	1.26	0.76	21	0.58	0.088	
AA069627	Soil	0.54	58.10	41.38	96.4	113	41.6	21.5	667	4.06	27.6	1.9	4.8	13.0	15.9	0.10	1.63	0.61	12	0.17	0.063	
AA069628	Soil	0.26	74.31	48.63	107.2	125	47.6	22.5	535	4.28	23.0	2.5	4.1	18.0	35.7	0.08	0.76	0.63	12	0.36	0.058	
AA069629	Soil	0.79	79.54	61.50	104.1	58	45.4	27.6	845	4.23	23.8	2.4	1.2	18.1	10.9	0.06	0.38	0.70	18	0.09	0.053	
AA069630	Soil	0.45	60.09	63.53	101.6	33	42.3	30.5	999	4.15	22.0	1.5	1.8	17.0	6.2	0.09	0.49	0.69	18	0.04	0.053	



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA069601	Soil	15.9	31.9	0.98	20.9	0.001	<1	2.21	0.003	0.03	<0.1	2.8	0.02	0.03	16	0.4	0.05	5.8	1.32	<0.1	0.18
AA069602	Soil	19.2	31.8	0.96	22.8	0.003	<1	2.28	0.003	0.05	<0.1	3.5	0.03	<0.02	8	<0.1	0.12	6.1	1.58	<0.1	0.09
AA069603	Soil	16.8	29.0	0.87	21.0	0.001	1	2.08	0.004	0.04	<0.1	3.2	0.04	<0.02	24	0.2	0.16	5.6	2.57	<0.1	0.09
AA069604	Soil	18.5	18.4	0.63	49.6	0.002	2	1.49	0.003	0.06	<0.1	2.2	0.08	0.03	15	0.3	0.12	3.8	2.06	<0.1	0.06
AA069605	Soil	13.2	16.3	0.37	26.1	0.007	2	1.32	0.010	0.05	<0.1	1.3	0.07	0.04	9	0.2	0.05	3.9	1.48	<0.1	0.06
AA069606	Soil	15.5	19.1	0.44	42.9	0.006	<1	1.56	0.008	0.05	0.1	1.9	0.10	0.04	48	0.6	0.06	4.4	1.54	<0.1	0.08
AA069607	Soil	19.0	15.5	0.44	60.8	<0.001	2	1.28	0.006	0.08	<0.1	2.1	0.06	0.04	12	<0.1	0.04	3.1	1.57	<0.1	0.12
AA069608	Soil	22.2	24.7	0.52	38.6	0.008	2	1.73	0.005	0.07	0.1	1.6	0.10	0.04	22	0.2	0.04	5.1	1.84	<0.1	0.05
AA069609	Soil	17.2	22.5	0.78	24.5	0.002	1	1.84	0.005	0.05	<0.1	1.4	0.05	0.03	18	0.1	0.13	5.1	1.22	<0.1	0.07
AA069610	Soil	21.5	16.1	0.47	45.2	0.001	<1	1.34	0.004	0.05	<0.1	2.5	0.06	<0.02	16	<0.1	0.04	3.2	1.42	<0.1	0.06
AA069611	Soil	28.9	17.1	0.70	33.9	0.001	<1	1.51	0.002	0.04	<0.1	1.8	0.06	<0.02	17	<0.1	0.12	3.9	1.91	<0.1	0.03
AA069612	Soil	9.4	3.3	1.46	20.8	<0.001	<1	0.27	0.003	0.03	<0.1	5.3	0.10	0.05	40	0.7	0.06	0.5	0.24	<0.1	0.38
AA069613	Soil	19.8	16.8	0.55	50.3	0.002	<1	1.62	0.006	0.06	<0.1	3.7	0.05	0.03	34	0.2	0.08	3.5	1.54	<0.1	0.19
AA069614	Soil	25.7	20.6	0.77	38.8	0.001	1	1.67	0.003	0.05	<0.1	1.8	0.04	<0.02	10	0.2	0.09	4.3	1.04	<0.1	0.06
AA069615	Soil	16.4	22.8	0.75	37.8	<0.001	<1	2.00	0.003	0.05	<0.1	1.5	0.04	<0.02	7	<0.1	0.06	4.7	0.54	<0.1	0.04
AA069616	Soil	15.2	22.4	0.78	27.6	<0.001	<1	1.94	0.002	0.04	<0.1	1.5	0.04	<0.02	9	<0.1	0.05	4.6	0.49	<0.1	0.04
AA069617	Soil	8.2	12.8	0.24	24.8	0.008	<1	1.02	0.012	0.03	<0.1	0.6	0.04	0.05	31	0.3	<0.02	3.6	0.60	<0.1	<0.02
AA069618	Soil	16.8	20.9	0.55	42.2	0.001	<1	1.77	0.005	0.04	<0.1	1.8	0.04	0.02	14	<0.1	0.04	4.6	0.92	<0.1	0.11
AA069619	Soil	15.1	23.7	0.64	49.2	0.004	<1	1.74	0.010	0.04	<0.1	2.0	0.05	0.04	15	0.1	0.04	4.7	0.87	<0.1	0.10
AA069620	Soil	19.2	22.2	0.68	33.2	0.002	<1	1.73	0.003	0.03	<0.1	2.9	0.03	<0.02	22	0.2	0.09	4.4	0.58	<0.1	0.08
AA069621	Soil	23.2	39.1	1.20	74.2	0.036	4	2.99	0.009	0.07	0.1	3.4	0.08	0.05	28	0.2	0.05	8.0	2.17	<0.1	0.11
AA069622	Soil	22.4	63.1	2.05	173.2	0.083	1	3.11	0.012	0.17	<0.1	3.5	0.09	0.03	20	0.3	0.09	8.2	1.59	<0.1	0.03
AA069623	Soil	22.1	18.5	0.39	34.2	<0.001	<1	1.26	0.003	0.07	<0.1	2.5	0.08	0.02	10	<0.1	0.03	3.0	0.40	<0.1	0.02
AA069624	Soil	17.6	26.6	0.77	15.6	<0.001	<1	1.94	0.002	0.07	<0.1	1.3	0.03	<0.02	<5	<0.1	0.02	4.9	0.88	<0.1	0.04
AA069625	Soil	22.8	21.8	0.69	40.4	0.001	<1	1.70	0.004	0.06	<0.1	2.1	0.04	<0.02	10	<0.1	0.07	4.4	0.96	<0.1	0.05
AA069626	Soil	23.6	34.5	1.31	64.2	0.006	<1	2.16	0.008	0.08	<0.1	4.4	0.11	0.02	17	0.3	0.19	4.9	1.48	<0.1	0.08
AA069627	Soil	21.5	23.2	0.70	43.5	0.002	<1	1.90	0.006	0.04	<0.1	2.5	0.05	<0.02	24	0.1	0.08	5.1	0.89	<0.1	0.07
AA069628	Soil	13.3	29.9	0.95	30.6	<0.001	<1	2.20	0.003	0.06	<0.1	2.0	0.05	0.02	12	0.2	0.10	5.6	1.97	<0.1	0.04
AA069629	Soil	16.5	35.7	1.01	21.5	0.001	<1	2.37	0.002	0.03	<0.1	2.0	0.05	<0.02	12	<0.1	0.08	6.5	0.60	<0.1	0.05
AA069630	Soil	19.3	33.5	0.86	22.5	0.002	<1	2.34	0.002	0.03	<0.1	1.9	0.04	<0.02	10	<0.1	0.09	6.0	0.89	<0.1	0.10



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**Project:** None Given  
**Report Date:** September 08, 2016

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Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
AA069601	Soil	0.07	2.9	0.7	<0.05	5.8	5.91	28.7	0.02	1	0.1	70.3	<10	<2
AA069602	Soil	0.03	2.0	0.6	<0.05	5.8	6.71	34.9	0.03	<1	0.3	70.3	<10	2
AA069603	Soil	0.02	1.9	0.5	<0.05	3.4	7.42	28.5	0.02	<1	0.3	67.0	<10	2
AA069604	Soil	0.06	6.1	0.9	<0.05	2.4	5.18	33.5	0.03	1	0.7	40.4	<10	<2
AA069605	Soil	0.21	6.7	0.5	<0.05	2.8	3.54	27.0	<0.02	<1	0.1	25.2	<10	<2
AA069606	Soil	0.14	7.6	2.0	<0.05	3.3	8.45	31.6	<0.02	<1	0.4	31.8	<10	<2
AA069607	Soil	0.02	4.9	1.6	<0.05	12.1	5.10	33.7	0.03	<1	0.7	31.4	<10	<2
AA069608	Soil	0.25	10.4	0.5	<0.05	2.1	4.11	40.4	0.03	<1	0.5	34.6	<10	<2
AA069609	Soil	0.08	6.5	0.4	<0.05	2.6	1.74	28.1	<0.02	<1	0.2	48.5	<10	<2
AA069610	Soil	0.04	3.7	1.7	<0.05	5.2	6.87	40.5	<0.02	<1	0.7	32.9	<10	<2
AA069611	Soil	0.03	3.6	0.7	<0.05	2.8	4.57	47.8	<0.02	<1	0.6	44.0	<10	<2
AA069612	Soil	0.03	1.2	0.6	<0.05	24.8	12.58	18.1	0.05	<1	0.4	6.9	<10	<2
AA069613	Soil	0.13	5.3	1.1	<0.05	7.8	11.83	36.0	0.03	<1	0.7	33.0	<10	<2
AA069614	Soil	0.05	5.5	1.7	<0.05	2.5	4.84	42.8	<0.02	<1	0.4	49.5	<10	<2
AA069615	Soil	0.05	5.1	0.9	<0.05	1.5	2.97	28.2	0.03	<1	0.4	60.7	<10	<2
AA069616	Soil	0.03	4.0	0.7	<0.05	1.6	3.04	26.0	0.02	<1	0.6	63.7	<10	<2
AA069617	Soil	0.22	4.2	1.8	<0.05	0.6	1.48	15.0	<0.02	<1	0.2	16.9	<10	<2
AA069618	Soil	0.15	5.4	1.4	<0.05	4.0	4.73	29.9	0.02	<1	0.4	43.9	<10	<2
AA069619	Soil	0.38	4.3	1.5	<0.05	4.2	6.22	24.7	<0.02	<1	0.4	42.6	<10	<2
AA069620	Soil	0.17	3.2	1.0	<0.05	3.4	8.38	29.6	0.03	<1	0.5	50.4	<10	<2
AA069621	Soil	1.03	8.8	1.4	<0.05	4.9	14.91	37.5	0.05	<1	1.1	63.3	<10	<2
AA069622	Soil	1.57	9.4	2.2	<0.05	2.0	7.62	45.5	0.04	<1	1.1	33.7	<10	<2
AA069623	Soil	0.02	4.1	1.5	<0.05	1.3	8.74	41.0	0.03	<1	0.4	29.8	<10	<2
AA069624	Soil	<0.02	4.5	0.8	<0.05	2.4	2.49	31.8	<0.02	<1	0.2	55.8	<10	<2
AA069625	Soil	0.05	4.9	1.6	<0.05	1.7	4.54	39.4	0.03	<1	0.3	46.9	<10	<2
AA069626	Soil	0.23	6.9	0.9	<0.05	3.7	13.17	43.3	0.04	<1	0.8	37.1	<10	<2
AA069627	Soil	0.08	4.1	0.8	<0.05	2.7	6.82	37.2	0.03	<1	0.3	51.7	<10	<2
AA069628	Soil	0.02	4.2	1.9	<0.05	2.8	5.51	23.5	0.03	<1	0.6	74.9	<10	<2
AA069629	Soil	0.04	2.8	1.8	<0.05	2.2	3.40	27.4	<0.02	<1	0.4	93.6	<10	<2
AA069630	Soil	0.09	3.8	0.6	<0.05	3.6	3.32	33.7	0.02	<1	0.4	84.4	<10	<2



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000181.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
AA069631	Soil	1.68	27.21	40.38	76.4	58	23.9	12.2	535	3.46	14.4	1.7	0.9	1.5	13.1	0.08	0.65	0.59	25	0.08	0.080
AA069632	Soil	0.49	21.69	30.00	52.9	49	16.5	10.6	394	2.17	7.7	0.6	0.4	3.8	6.0	0.06	0.38	0.41	10	0.05	0.074
AA069633	Soil	0.34	7.43	6.25	16.5	35	5.1	2.4	116	0.76	1.5	0.5	<0.2	<0.1	3.4	0.02	0.14	0.15	7	0.01	0.043
AA069634	Soil	0.64	28.94	44.20	78.7	272	58.2	27.2	855	4.12	146.7	1.6	56.1	13.4	30.5	0.11	6.41	0.37	10	0.31	0.049
AA069635	Soil	0.38	43.79	43.89	90.6	138	40.5	28.0	956	3.84	61.0	1.4	18.9	21.7	26.5	0.08	2.49	0.58	8	0.32	0.052
AA069636	Soil	0.37	43.51	38.94	86.8	96	39.2	24.6	830	4.07	5.6	2.0	1.3	20.0	17.7	0.07	0.58	0.47	9	0.15	0.047
AA069637	Soil	0.27	42.11	38.03	66.5	155	32.9	35.9	1282	3.44	48.8	1.6	20.6	25.8	27.2	0.06	1.95	0.36	9	0.26	0.038
AA069638	Soil	0.42	26.61	35.58	40.1	73	20.9	25.1	1510	2.67	14.4	1.4	4.5	14.8	5.0	0.07	1.29	0.25	9	0.03	0.047
AA069639	Soil	0.63	65.04	80.41	113.0	319	46.8	38.7	1152	4.67	206.6	3.1	53.8	16.9	15.4	0.21	7.95	0.77	9	0.12	0.074
AA069640	Soil	0.39	45.90	34.12	83.8	86	46.9	37.1	477	3.50	26.9	1.1	3.6	15.7	19.3	0.06	0.87	0.48	10	0.12	0.057
AA069591	Soil	1.04	23.74	17.73	55.5	60	22.5	8.7	491	2.70	43.4	0.7	6.8	1.3	6.2	0.08	0.64	0.33	14	0.04	0.087
AA069592	Soil	0.66	34.54	17.99	81.1	38	37.1	15.2	438	3.54	24.4	0.8	6.4	10.7	11.2	0.03	0.41	0.41	13	0.09	0.052
AA069593	Soil	0.57	16.66	8.22	29.4	97	13.3	4.5	270	1.39	11.0	0.6	1.0	0.2	4.6	0.07	0.28	0.20	8	0.05	0.084
AA069594	Soil	0.38	9.17	21.03	30.3	45	11.4	8.1	946	1.44	3.2	0.3	1.2	0.1	3.8	0.02	0.11	0.16	11	0.03	0.063
AA069595	Soil	1.00	23.05	16.95	62.5	30	31.4	11.4	385	3.17	29.4	0.5	2.3	3.3	3.4	0.06	0.45	0.37	15	0.02	0.056
AA069596	Soil	1.14	32.95	24.68	79.0	72	36.3	14.5	484	3.53	65.7	1.0	5.1	5.5	9.8	0.05	0.58	0.41	15	0.07	0.055
AA069597	Soil	0.69	37.94	26.61	79.9	32	39.7	20.0	587	3.69	34.7	0.6	3.5	6.6	8.6	0.05	0.55	0.41	15	0.06	0.034
AA069598	Soil	0.35	40.82	29.32	71.1	40	33.5	18.2	475	2.99	51.2	0.9	9.7	11.4	17.5	0.03	0.42	0.40	11	0.09	0.035
AA069599	Soil	0.32	15.92	10.72	25.2	19	9.2	5.2	164	1.24	12.0	0.3	1.2	0.2	5.0	0.02	0.17	0.12	17	0.03	0.031
AA069600	Soil	0.72	50.35	55.63	74.1	67	38.7	37.0	1252	3.40	49.1	0.9	10.8	9.2	17.5	0.05	0.76	0.50	12	0.10	0.040
AA068481	Soil	0.38	45.52	54.13	91.2	73	40.2	29.7	1034	3.87	17.3	1.3	1.2	21.0	19.9	0.05	0.78	0.58	12	0.25	0.051
AA068482	Soil	0.42	44.70	46.06	99.9	113	40.2	22.0	776	3.89	10.5	1.5	1.5	19.7	22.3	0.07	0.67	0.51	10	0.27	0.056
AA068483	Soil	0.46	45.95	49.05	92.1	105	39.5	25.6	835	3.92	10.4	1.2	0.5	17.9	23.9	0.05	0.62	0.51	12	0.30	0.048
AA068484	Soil	0.48	53.69	51.64	96.8	95	42.6	32.0	890	3.99	11.6	1.4	1.6	15.9	17.6	0.10	0.67	0.53	12	0.17	0.043
AA068485	Soil	0.71	72.84	75.35	110.2	192	51.2	39.1	1078	5.05	16.3	2.1	2.1	16.9	20.5	0.13	0.70	0.92	16	0.29	0.066
AA068486	Soil	0.64	78.69	63.83	108.9	156	52.5	40.4	842	4.81	15.5	2.3	1.7	15.7	15.7	0.09	0.78	0.93	16	0.20	0.057
AA068487	Soil	0.39	44.21	48.50	92.7	91	41.4	27.6	865	3.90	10.8	1.3	1.2	17.0	19.3	0.07	0.65	0.51	12	0.18	0.043
AA068488	Soil	0.55	67.48	56.97	108.8	152	46.6	33.8	835	4.55	12.9	2.2	0.7	15.8	13.0	0.10	0.75	0.78	15	0.16	0.057
AA068489	Soil	0.35	44.91	29.04	98.0	60	40.8	18.5	454	4.18	14.3	1.0	4.1	14.7	8.7	0.05	0.40	0.47	14	0.07	0.041
AA068490	Soil	0.30	39.03	22.95	85.4	32	35.7	12.5	301	3.78	11.1	1.1	3.6	12.9	4.6	0.03	0.33	0.44	13	0.03	0.039



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**Project:** None Given  
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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA069631	Soil	15.3	23.6	0.44	37.0	0.010	<1	1.64	0.005	0.05	<0.1	0.7	0.08	0.04	22	0.3	0.06	6.5	1.58	<0.1	<0.02
AA069632	Soil	7.5	14.6	0.36	15.6	0.006	<1	1.25	0.014	0.03	<0.1	0.8	0.03	0.04	18	0.3	0.05	3.6	0.57	<0.1	0.07
AA069633	Soil	4.1	6.1	0.09	13.7	0.005	<1	0.54	0.021	0.02	<0.1	0.2	0.03	0.04	23	0.3	<0.02	2.2	0.38	<0.1	<0.02
AA069634	Soil	31.1	15.2	0.20	44.3	0.001	<1	0.96	0.008	0.04	<0.1	9.3	0.04	0.02	28	<0.1	<0.02	1.7	0.90	<0.1	0.10
AA069635	Soil	15.9	16.7	0.57	35.8	<0.001	<1	1.44	0.003	0.04	<0.1	3.5	0.04	0.02	17	<0.1	0.03	3.4	1.38	<0.1	0.15
AA069636	Soil	11.7	18.8	0.62	22.1	0.001	<1	1.47	0.002	0.03	<0.1	2.9	0.03	<0.02	22	<0.1	<0.02	4.0	0.63	<0.1	0.14
AA069637	Soil	12.1	18.2	0.55	36.9	<0.001	<1	1.56	0.005	0.05	<0.1	3.4	0.04	<0.02	19	<0.1	<0.02	4.2	1.46	<0.1	0.13
AA069638	Soil	15.7	14.7	0.40	31.3	0.002	<1	1.40	0.007	0.03	<0.1	2.5	0.04	0.03	40	0.3	<0.02	3.6	1.03	<0.1	0.07
AA069639	Soil	18.1	14.6	0.46	32.8	0.004	<1	1.26	0.007	0.03	<0.1	3.1	0.05	<0.02	45	0.2	0.04	3.3	1.14	<0.1	0.03
AA069640	Soil	18.6	19.5	0.82	23.9	0.001	<1	1.67	0.003	0.05	<0.1	2.0	0.04	<0.02	11	<0.1	0.07	4.0	1.03	<0.1	0.07
AA069591	Soil	14.5	19.7	0.55	32.9	0.005	<1	1.31	0.009	0.03	<0.1	0.8	0.04	0.05	23	<0.1	0.04	4.0	0.73	<0.1	0.05
AA069592	Soil	29.9	24.0	0.99	19.2	0.004	<1	1.85	0.001	0.02	<0.1	1.8	<0.02	<0.02	<5	<0.1	0.06	4.7	0.41	<0.1	0.03
AA069593	Soil	7.1	12.0	0.33	20.5	0.003	1	0.88	0.012	0.02	<0.1	0.4	0.03	0.05	29	0.1	<0.02	2.9	0.52	<0.1	0.02
AA069594	Soil	4.7	10.5	0.30	19.8	0.007	2	0.72	0.015	0.02	<0.1	0.3	0.03	0.05	42	<0.1	0.02	3.0	0.39	<0.1	<0.02
AA069595	Soil	15.7	25.0	0.82	26.3	0.004	1	1.66	0.005	0.02	<0.1	1.1	0.03	0.03	17	0.2	0.05	5.0	0.64	<0.1	0.08
AA069596	Soil	21.2	22.5	0.84	29.4	0.002	1	1.80	0.002	0.03	<0.1	1.3	0.05	0.02	16	<0.1	0.14	4.5	0.89	<0.1	0.12
AA069597	Soil	22.5	23.6	1.01	21.6	0.002	2	1.92	0.001	0.03	<0.1	1.5	0.03	<0.02	10	<0.1	0.12	4.6	0.91	<0.1	0.07
AA069598	Soil	24.7	19.1	0.79	21.7	0.002	<1	1.51	0.003	0.04	<0.1	1.2	0.02	<0.02	<5	<0.1	0.15	3.9	0.86	<0.1	0.10
AA069599	Soil	6.1	7.0	0.20	13.6	0.013	2	0.58	0.021	0.02	<0.1	0.2	<0.02	0.02	21	0.2	0.04	2.3	0.38	<0.1	0.04
AA069600	Soil	22.8	20.8	0.93	26.6	0.002	<1	1.72	0.004	0.03	<0.1	1.6	0.04	<0.02	17	<0.1	0.09	4.4	1.14	<0.1	0.03
AA068481	Soil	14.5	20.5	0.70	32.0	<0.001	<1	1.64	0.002	0.04	<0.1	2.4	0.03	<0.02	8	<0.1	0.08	4.4	0.64	<0.1	0.18
AA068482	Soil	18.1	19.7	0.69	27.8	0.001	2	1.51	0.002	0.03	<0.1	3.0	0.03	<0.02	24	0.2	0.05	4.2	0.45	<0.1	0.11
AA068483	Soil	14.7	23.7	0.78	28.9	0.002	<1	1.65	0.002	0.03	<0.1	2.3	0.03	<0.02	21	0.1	0.05	4.3	0.52	<0.1	0.18
AA068484	Soil	13.8	23.9	0.77	26.3	0.002	<1	1.71	0.002	0.02	<0.1	2.1	0.04	<0.02	15	<0.1	0.06	4.7	0.67	<0.1	0.16
AA068485	Soil	19.6	29.4	0.90	30.5	0.002	2	2.12	0.003	0.04	<0.1	4.0	0.04	<0.02	16	0.3	0.12	5.7	1.13	<0.1	0.13
AA068486	Soil	18.9	30.0	0.88	25.9	0.002	<1	2.05	0.003	0.03	<0.1	2.8	0.04	<0.02	13	<0.1	0.10	5.6	1.07	<0.1	0.11
AA068487	Soil	15.6	23.2	0.75	42.4	0.002	<1	1.70	0.002	0.03	<0.1	2.3	0.04	<0.02	13	<0.1	0.04	4.8	0.53	<0.1	0.12
AA068488	Soil	20.3	27.2	0.84	26.8	0.002	<1	1.91	0.003	0.04	<0.1	2.8	0.03	<0.02	16	<0.1	0.09	5.0	0.98	<0.1	0.12
AA068489	Soil	19.9	28.4	0.87	28.7	<0.001	<1	2.20	0.002	0.05	<0.1	1.9	0.04	<0.02	<5	<0.1	0.07	5.7	0.51	<0.1	0.07
AA068490	Soil	16.6	24.9	0.76	30.4	0.001	<1	2.00	0.004	0.04	<0.1	1.3	0.03	<0.02	13	<0.1	0.02	5.6	0.45	<0.1	0.07



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000181.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA069631	Soil	0.25	9.0	1.1	<0.05	0.4	3.73	26.9	0.02	<1	0.3	41.2	<10	<2
AA069632	Soil	0.19	3.1	1.7	<0.05	2.4	1.54	13.3	<0.02	<1	0.2	27.3	<10	<2
AA069633	Soil	0.09	2.5	1.0	<0.05	0.1	0.77	6.8	<0.02	<1	<0.1	6.2	<10	<2
AA069634	Soil	0.07	3.1	3.2	<0.05	4.2	21.36	54.9	0.06	<1	1.2	8.9	<10	<2
AA069635	Soil	<0.02	2.6	1.4	<0.05	8.9	10.59	30.3	0.04	<1	0.8	42.9	<10	<2
AA069636	Soil	0.02	1.5	0.6	<0.05	9.7	10.77	22.5	0.03	<1	0.6	50.9	<10	<2
AA069637	Soil	0.02	3.1	1.1	<0.05	11.3	12.38	25.2	0.04	<1	0.7	43.6	<10	<2
AA069638	Soil	0.09	3.6	4.2	<0.05	3.5	8.04	32.1	0.03	<1	0.5	31.8	<10	<2
AA069639	Soil	0.08	3.3	0.9	<0.05	3.2	12.62	31.4	0.03	<1	0.7	36.7	<10	<2
AA069640	Soil	0.03	3.8	1.3	<0.05	4.5	4.80	30.9	<0.02	<1	0.6	54.4	<10	<2
AA069591	Soil	0.15	4.3	1.7	<0.05	1.7	2.09	24.0	<0.02	<1	0.2	34.0	<10	<2
AA069592	Soil	0.06	2.0	0.3	<0.05	2.0	3.86	48.0	<0.02	<1	0.2	71.6	<10	<2
AA069593	Soil	0.13	2.5	0.3	<0.05	0.4	1.79	13.3	<0.02	<1	<0.1	22.6	<10	<2
AA069594	Soil	0.08	1.9	1.0	<0.05	0.4	0.88	8.9	<0.02	<1	<0.1	20.3	<10	2
AA069595	Soil	0.14	3.1	0.3	<0.05	2.8	1.78	28.0	<0.02	<1	0.3	57.2	<10	<2
AA069596	Soil	0.07	4.1	0.4	<0.05	4.2	3.12	37.4	<0.02	<1	0.3	54.3	<10	<2
AA069597	Soil	0.04	3.1	<0.1	<0.05	3.1	3.55	38.4	<0.02	<1	0.1	67.3	<10	<2
AA069598	Soil	<0.02	2.6	0.2	<0.05	7.9	3.30	41.7	<0.02	<1	<0.1	51.5	<10	3
AA069599	Soil	0.05	2.1	0.4	<0.05	0.3	0.73	10.8	<0.02	<1	0.2	12.7	<10	<2
AA069600	Soil	<0.02	2.5	0.4	<0.05	4.6	3.71	38.4	<0.02	<1	0.2	59.7	<10	2
AA068481	Soil	<0.02	1.8	0.1	<0.05	11.4	8.85	27.6	0.03	<1	0.5	53.3	<10	<2
AA068482	Soil	<0.02	2.0	0.2	<0.05	9.1	11.10	34.3	0.02	<1	0.4	53.1	<10	<2
AA068483	Soil	<0.02	2.0	0.4	<0.05	11.2	8.93	28.0	<0.02	<1	0.6	58.5	<10	<2
AA068484	Soil	0.02	1.6	0.2	<0.05	10.1	7.71	27.0	<0.02	<1	0.2	63.4	<10	<2
AA068485	Soil	<0.02	2.0	0.4	<0.05	10.1	10.58	35.8	0.03	2	0.5	68.4	<10	<2
AA068486	Soil	<0.02	1.7	0.8	<0.05	8.4	7.94	33.4	<0.02	<1	0.5	74.7	<10	<2
AA068487	Soil	<0.02	2.0	0.2	<0.05	10.4	7.89	29.9	<0.02	<1	0.3	63.6	<10	<2
AA068488	Soil	<0.02	2.1	0.3	<0.05	7.2	9.27	36.2	0.02	<1	0.5	66.7	<10	<2
AA068489	Soil	<0.02	3.6	0.4	<0.05	2.7	3.49	38.0	0.03	<1	0.5	68.3	<10	<2
AA068490	Soil	0.05	3.8	0.2	<0.05	2.6	1.94	31.1	0.02	<1	0.4	60.4	<10	<2



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000181.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
AA068491	Soil	0.23	15.84	17.50	42.6	18	15.7	7.8	264	2.04	10.5	0.6	2.3	5.3	6.1	0.03	0.43	0.27	9	0.06	0.036
AA068492	Soil	0.50	32.77	54.53	82.8	73	36.5	20.3	555	3.78	41.4	1.3	2.4	12.4	12.1	0.10	2.27	0.45	12	0.12	0.077
AA068493	Soil	0.30	18.99	27.95	66.1	51	27.0	11.3	376	3.01	56.6	0.7	27.3	7.0	6.4	0.08	1.43	0.35	10	0.05	0.036
AA068494	Soil	0.61	33.06	36.85	79.7	79	40.0	16.1	601	4.11	18.8	1.9	1.4	7.5	14.0	0.11	0.64	0.41	14	0.15	0.057
AA068495	Soil	0.38	32.99	31.15	83.0	159	41.1	15.8	376	3.85	37.1	1.3	6.8	12.3	17.9	0.07	0.57	0.45	13	0.19	0.043
AA068496	Soil	0.68	22.66	30.64	82.3	112	26.4	14.0	457	3.67	58.9	0.8	4.3	3.2	4.9	0.10	0.65	0.40	18	0.02	0.060
AA068497	Soil	0.65	17.29	29.95	63.9	52	22.1	11.8	526	3.07	41.9	1.2	3.4	1.5	8.3	0.11	0.51	0.35	19	0.06	0.090
AA068498	Soil	1.03	15.66	27.68	65.7	36	16.5	8.8	251	2.86	16.4	0.9	3.5	0.6	7.6	0.07	0.52	0.49	28	0.04	0.065
AA068499	Soil	0.22	33.10	35.06	68.1	93	32.1	21.0	660	3.04	17.9	0.7	1.9	13.9	13.2	0.03	0.80	0.42	8	0.13	0.038
AA068500	Soil	0.75	14.68	26.59	58.4	34	20.4	10.6	404	3.09	59.4	0.7	7.9	2.8	4.2	0.05	0.60	0.37	22	0.01	0.050
AA070501	Soil	1.94	94.38	53.65	114.7	63	72.0	38.7	1756	5.78	61.6	2.0	2.7	8.5	5.9	0.07	1.91	0.84	19	0.07	0.061
AA070502	Soil	0.81	37.44	27.32	82.3	38	38.0	15.4	772	4.46	26.3	1.2	1.7	4.4	5.8	0.07	0.67	0.52	22	0.02	0.098
AA070503	Soil	0.48	34.42	32.11	58.7	63	23.1	22.6	973	2.62	12.6	1.3	1.2	2.6	4.6	0.02	0.42	0.27	13	0.06	0.067
AA070504	Soil	0.66	71.38	76.25	103.0	171	49.0	35.8	1584	4.45	81.8	3.8	15.3	4.0	7.2	0.09	0.91	0.44	14	0.12	0.084
AA070505	Soil	0.58	44.24	51.15	91.5	132	35.3	18.4	1020	4.84	21.8	2.0	4.8	3.7	3.1	0.09	0.68	0.56	21	0.01	0.109
AA070506	Soil	0.52	59.15	52.91	120.0	130	56.4	26.7	811	4.95	14.5	2.2	1.1	11.2	3.9	0.07	0.57	0.35	17	0.09	0.080
AA070507	Soil	0.65	98.29	135.17	134.4	298	53.4	46.8	1389	5.24	33.2	2.9	2.7	8.3	2.8	0.11	0.70	0.74	18	0.04	0.076
AA070508	Soil	0.45	50.49	29.95	107.6	65	53.6	20.6	833	5.00	35.3	1.5	3.0	6.3	4.7	0.05	0.56	0.39	19	0.03	0.049
AA070509	Soil	1.22	62.40	46.81	101.5	55	49.7	25.4	1444	5.27	63.3	1.3	13.1	5.1	9.0	0.09	1.23	0.59	20	0.01	0.094
AA070510	Soil	0.46	56.97	45.08	99.7	74	49.2	20.8	887	4.64	99.4	1.7	19.4	5.4	4.9	0.06	0.72	0.53	18	0.05	0.055
AA070521	Soil	0.40	43.07	46.65	78.1	158	41.3	26.5	798	3.85	26.3	2.7	6.1	24.8	32.8	0.08	1.38	0.39	8	0.29	0.057
AA070522	Soil	0.37	30.71	43.63	72.3	168	35.4	22.2	593	3.02	26.8	1.9	10.5	21.5	31.7	0.08	2.00	0.29	5	0.28	0.040
AA070523	Soil	0.48	41.78	43.08	83.6	133	42.6	20.2	516	4.24	14.2	2.5	4.4	18.8	30.1	0.08	1.42	0.36	9	0.26	0.062
AA070524	Soil	0.61	29.42	37.52	71.7	115	36.4	16.7	407	3.33	18.3	1.3	8.5	14.1	22.6	0.12	1.32	0.28	7	0.27	0.044
AA070525	Soil	0.83	59.21	38.56	103.6	136	50.5	24.8	442	4.62	10.0	1.8	1.3	13.5	22.8	0.08	0.53	0.57	12	0.38	0.065
AA070526	Soil	0.76	74.68	53.21	102.8	151	52.3	37.5	707	4.36	13.4	2.3	1.6	15.5	20.1	0.09	0.55	0.62	12	0.30	0.058
AA070527	Soil	0.74	78.70	51.13	106.5	185	52.2	39.4	630	4.67	20.1	2.5	6.3	16.8	28.3	0.10	1.25	0.61	13	0.47	0.064
AA070528	Soil	0.68	65.99	34.14	91.6	144	184.9	69.9	2017	5.43	54.6	2.1	5.7	14.2	329.2	0.11	1.09	0.40	47	1.18	0.105
AA070529	Soil	0.96	119.26	86.69	106.2	176	62.0	84.8	1813	4.92	23.1	4.9	1.7	19.1	19.3	0.10	1.35	0.71	17	0.08	0.073
AA070530	Soil	0.95	94.01	74.89	104.5	154	51.5	71.1	1498	4.70	19.8	4.5	1.7	12.5	13.9	0.06	0.84	0.83	20	0.05	0.075



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**Project:** None Given  
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**Part:** 2 of 3

# CERTIFICATE OF ANALYSIS

# WHI16000181.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA068491	Soil	13.2	12.6	0.28	32.5	0.003	1	0.98	0.008	0.03	<0.1	0.9	0.04	<0.02	<5	0.2	<0.02	3.0	0.55	<0.1	<0.02
AA068492	Soil	16.9	16.3	0.33	37.5	0.003	1	1.29	0.005	0.04	<0.1	2.2	0.07	<0.02	7	0.1	<0.02	3.3	0.89	<0.1	<0.02
AA068493	Soil	15.3	15.7	0.32	40.9	0.002	2	1.22	0.005	0.03	<0.1	1.2	0.05	<0.02	6	0.2	0.03	2.8	0.75	<0.1	0.03
AA068494	Soil	20.6	19.9	0.48	41.2	0.003	<1	1.57	0.002	0.03	<0.1	2.9	0.05	0.03	18	<0.1	0.06	3.6	0.59	<0.1	0.06
AA068495	Soil	20.7	23.1	0.63	39.6	0.002	<1	1.69	0.002	0.03	<0.1	2.7	0.03	<0.02	30	0.1	0.05	3.7	0.51	<0.1	0.08
AA068496	Soil	13.3	20.5	0.40	33.8	0.005	2	1.56	0.002	0.03	<0.1	0.9	0.07	0.04	16	0.2	0.10	4.4	1.15	<0.1	0.03
AA068497	Soil	12.2	17.2	0.34	49.5	0.006	<1	1.39	0.005	0.04	<0.1	1.0	0.06	0.07	23	0.1	0.04	3.8	0.96	<0.1	<0.02
AA068498	Soil	15.1	17.4	0.24	48.8	0.011	2	1.19	0.005	0.03	<0.1	0.6	0.10	0.05	22	0.2	0.03	5.6	1.19	<0.1	<0.02
AA068499	Soil	17.4	15.4	0.41	21.4	0.001	<1	1.15	0.002	0.03	<0.1	1.7	0.03	<0.02	8	<0.1	0.04	2.8	0.49	<0.1	<0.02
AA068500	Soil	17.1	18.4	0.31	34.7	0.007	<1	1.37	0.002	0.04	0.1	0.8	0.07	0.04	21	0.3	0.06	4.6	1.03	<0.1	<0.02
AA070501	Soil	31.0	38.1	1.53	11.5	0.002	2	2.73	0.003	0.03	<0.1	3.2	0.03	<0.02	<5	<0.1	0.26	7.2	1.29	<0.1	0.05
AA070502	Soil	20.1	32.7	0.90	25.2	0.005	1	2.13	0.003	0.03	<0.1	1.7	0.06	0.04	13	0.4	0.08	6.8	1.41	<0.1	0.13
AA070503	Soil	13.0	17.9	0.45	17.0	0.007	1	1.27	0.014	0.03	<0.1	1.3	0.04	<0.02	10	<0.1	0.04	3.8	0.99	<0.1	0.05
AA070504	Soil	14.9	26.1	0.71	21.4	<0.001	1	1.95	0.004	0.03	<0.1	2.3	0.05	0.04	24	<0.1	0.04	4.9	2.74	<0.1	0.21
AA070505	Soil	8.8	32.4	0.67	29.1	0.004	1	1.87	0.004	0.03	<0.1	1.5	0.05	0.06	60	0.2	0.07	7.2	2.38	<0.1	0.17
AA070506	Soil	14.9	37.9	1.02	17.1	0.002	<1	2.32	0.005	0.04	<0.1	3.0	0.04	<0.02	9	<0.1	0.07	6.6	3.86	<0.1	0.07
AA070507	Soil	14.1	36.8	1.01	19.0	0.001	<1	2.51	0.004	0.03	<0.1	2.6	0.04	0.02	24	0.2	0.09	6.9	4.91	<0.1	0.30
AA070508	Soil	21.0	37.7	1.21	13.5	<0.001	1	2.67	0.003	0.03	<0.1	2.4	<0.02	<0.02	7	<0.1	0.07	7.3	1.94	<0.1	0.15
AA070509	Soil	19.9	34.9	1.14	22.5	0.001	2	2.49	0.003	0.02	<0.1	2.1	0.04	0.02	12	0.1	0.10	7.0	2.33	<0.1	0.28
AA070510	Soil	18.8	35.2	1.08	18.5	0.001	2	2.51	0.005	0.03	<0.1	2.1	0.02	<0.02	10	<0.1	0.06	6.7	2.59	<0.1	0.18
AA070521	Soil	14.9	11.6	0.48	30.8	<0.001	2	1.28	0.003	0.03	<0.1	3.6	0.03	<0.02	16	0.1	0.06	2.4	0.84	<0.1	0.11
AA070522	Soil	10.1	7.6	0.38	29.1	<0.001	1	0.96	0.006	0.03	<0.1	2.3	0.03	0.04	22	0.1	0.05	1.5	0.90	<0.1	0.10
AA070523	Soil	17.7	16.5	0.51	38.5	0.003	3	1.36	0.007	0.03	<0.1	3.0	0.03	0.04	12	0.4	0.06	3.1	0.55	<0.1	0.21
AA070524	Soil	10.1	12.7	0.43	25.1	0.005	<1	0.90	0.002	0.02	<0.1	2.4	0.03	0.04	33	<0.1	<0.02	2.0	0.40	<0.1	0.11
AA070525	Soil	12.3	26.2	0.81	18.9	<0.001	<1	1.63	0.003	0.03	<0.1	2.9	0.03	0.04	24	0.2	0.05	4.4	0.52	<0.1	0.17
AA070526	Soil	12.8	24.8	0.82	29.3	<0.001	1	1.78	0.004	0.04	<0.1	3.1	0.04	0.03	20	0.1	0.06	4.8	0.90	<0.1	0.14
AA070527	Soil	13.3	25.6	0.83	29.0	<0.001	1	1.84	0.004	0.03	<0.1	3.0	0.03	0.05	12	0.1	0.04	4.9	1.02	<0.1	0.13
AA070528	Soil	16.3	83.9	2.27	150.3	0.042	1	3.40	0.007	0.12	<0.1	5.1	0.12	<0.02	12	0.2	0.04	8.3	1.11	<0.1	0.12
AA070529	Soil	20.5	29.8	0.89	41.3	0.002	1	2.24	0.009	0.04	<0.1	2.5	0.07	0.03	19	0.5	0.08	5.8	1.78	<0.1	0.09
AA070530	Soil	22.4	33.2	0.95	25.3	0.004	1	2.26	0.007	0.04	<0.1	2.2	0.07	0.03	42	0.2	0.11	6.2	1.44	<0.1	0.06



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA068491	Soil	0.10	3.8	0.4	<0.05	0.7	1.81	26.7	<0.02	<1	0.2	22.1	<10	<2
AA068492	Soil	0.12	5.2	0.4	<0.05	1.1	6.64	35.3	0.03	<1	0.6	19.5	<10	<2
AA068493	Soil	0.13	4.3	0.3	<0.05	1.3	2.45	29.6	<0.02	<1	0.3	24.9	<10	<2
AA068494	Soil	0.15	4.2	0.6	<0.05	2.9	9.45	51.7	0.04	<1	0.5	39.2	<10	2
AA068495	Soil	0.12	3.9	0.4	<0.05	3.5	10.02	39.5	<0.02	<1	0.4	43.4	<10	<2
AA068496	Soil	0.29	6.1	0.5	<0.05	1.2	2.30	28.3	<0.02	<1	0.3	34.5	<10	<2
AA068497	Soil	0.29	5.5	0.6	<0.05	0.9	4.63	32.2	<0.02	<1	0.6	26.3	<10	<2
AA068498	Soil	0.44	6.7	0.7	<0.05	0.2	2.36	30.6	0.02	<1	0.3	20.2	<10	<2
AA068499	Soil	0.04	2.6	0.3	<0.05	1.4	5.08	35.1	<0.02	1	0.2	23.0	<10	<2
AA068500	Soil	0.43	5.6	0.5	<0.05	0.4	2.02	34.7	<0.02	<1	0.2	21.8	<10	<2
AA070501	Soil	<0.02	2.2	1.3	<0.05	4.8	6.22	56.4	<0.02	2	0.7	113.4	<10	<2
AA070502	Soil	0.21	4.4	0.4	<0.05	3.8	2.16	36.4	<0.02	<1	0.3	65.5	<10	<2
AA070503	Soil	0.10	2.8	0.2	<0.05	1.2	1.89	24.3	<0.02	1	0.4	35.5	<10	<2
AA070504	Soil	0.03	2.9	0.5	<0.05	7.0	6.75	27.0	<0.02	<1	0.5	49.3	<10	<2
AA070505	Soil	0.17	4.0	0.2	<0.05	3.7	2.27	15.6	0.02	<1	0.2	48.6	12	<2
AA070506	Soil	0.05	3.4	0.3	<0.05	3.9	3.65	25.7	<0.02	1	0.7	75.3	<10	<2
AA070507	Soil	0.04	3.1	0.3	<0.05	8.8	3.81	24.7	0.05	<1	0.9	82.4	<10	<2
AA070508	Soil	<0.02	2.2	0.2	<0.05	4.3	1.98	35.8	0.02	<1	0.3	97.1	<10	<2
AA070509	Soil	0.04	3.2	0.5	<0.05	8.8	2.22	36.1	0.03	<1	0.8	95.0	<10	<2
AA070510	Soil	0.02	2.5	0.3	<0.05	4.5	3.17	33.7	<0.02	<1	0.6	90.1	<10	<2
AA070521	Soil	<0.02	2.2	0.3	<0.05	5.8	12.86	30.3	0.04	<1	0.5	25.0	<10	<2
AA070522	Soil	<0.02	2.2	0.7	<0.05	6.5	8.41	21.2	0.04	<1	0.4	13.0	<10	<2
AA070523	Soil	0.07	2.3	0.8	<0.05	12.3	10.77	33.9	0.03	<1	0.5	37.7	<10	<2
AA070524	Soil	0.11	1.3	0.4	<0.05	8.4	8.36	20.3	<0.02	<1	0.5	24.8	<10	<2
AA070525	Soil	<0.02	1.5	0.5	<0.05	11.4	8.46	23.0	0.02	<1	0.4	66.7	<10	<2
AA070526	Soil	<0.02	1.9	0.6	<0.05	11.0	7.93	23.8	0.04	<1	0.5	69.9	<10	<2
AA070527	Soil	<0.02	2.0	0.4	<0.05	9.1	7.98	24.3	0.03	2	0.5	68.0	<10	<2
AA070528	Soil	0.05	6.7	1.1	<0.05	11.3	9.40	44.8	0.03	<1	1.3	51.7	<10	3
AA070529	Soil	0.02	3.4	0.5	<0.05	8.2	8.67	37.4	0.02	<1	0.9	85.1	<10	<2
AA070530	Soil	0.09	4.4	0.8	<0.05	3.1	7.94	39.1	<0.02	<1	0.5	89.3	<10	<2



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000181.1

Method Analyte	Unit	MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
AA069651	Soil		0.27	21.77	33.31	52.3	254	24.6	12.6	535	2.29	675.9	0.9	76.8	11.5	14.8	0.10	2.23	0.28	6	0.15	0.038
AA069652	Soil		0.71	22.87	32.69	64.9	48	25.7	11.4	426	2.91	149.6	1.1	16.0	6.1	9.6	0.10	1.42	0.31	19	0.06	0.045
AA069653	Soil		0.47	32.42	41.43	80.4	195	33.7	17.3	605	3.17	162.4	1.7	60.7	14.0	15.7	0.05	1.41	0.40	9	0.12	0.038
AA069654	Soil		0.42	34.64	48.78	81.4	75	33.6	21.9	577	3.08	87.3	1.8	20.3	12.7	9.2	0.07	1.11	0.32	12	0.05	0.044
AA069655	Soil		0.63	24.14	34.31	73.8	60	25.8	12.6	368	2.94	83.0	1.1	10.8	5.9	7.0	0.10	0.95	0.31	14	0.04	0.046
AA069656	Soil		0.38	29.72	42.12	70.5	46	28.8	17.0	337	2.81	54.5	1.4	16.1	11.2	11.9	0.07	0.85	0.36	10	0.11	0.045
AA069657	Soil		0.72	48.38	37.76	87.8	145	47.1	23.5	776	3.82	165.6	1.0	28.5	8.4	11.3	0.09	0.71	0.50	23	0.11	0.049
AA069658	Soil		1.21	45.92	35.95	104.4	48	43.0	20.5	813	4.24	125.8	1.7	34.9	6.1	8.6	0.15	0.99	0.56	28	0.05	0.071
AA069659	Soil		1.38	41.19	31.50	93.9	42	40.0	17.5	685	4.07	120.3	1.5	7.5	3.8	6.6	0.10	0.88	0.50	23	0.03	0.081
AA069660	Soil		1.06	35.69	29.96	89.6	110	40.0	15.9	521	3.71	100.4	1.5	19.2	6.2	9.7	0.10	0.76	0.43	16	0.09	0.057
AA069661	Soil		2.02	40.71	27.69	94.7	75	46.2	17.0	463	4.26	59.1	0.9	26.9	6.8	7.9	0.09	0.81	0.40	16	0.13	0.042
AA069662	Soil		2.98	40.64	34.54	92.0	217	36.8	15.5	908	4.19	67.4	1.0	6.4	4.1	2.7	0.10	0.64	0.48	17	<0.01	0.094
AA069663	Soil		1.23	39.38	38.81	89.2	106	37.0	16.5	698	4.32	48.1	1.1	7.9	4.7	3.0	0.07	0.57	0.43	17	0.01	0.091
AA069664	Soil		0.59	36.92	29.42	89.4	52	42.1	18.5	764	4.50	42.6	0.9	6.2	4.6	3.6	0.07	0.56	0.34	19	0.02	0.053
AA069665	Soil		0.98	34.55	37.27	86.9	82	38.5	22.0	936	4.70	41.7	1.0	6.2	3.3	5.2	0.10	0.81	0.42	21	0.02	0.093
AA069666	Soil		0.59	45.13	88.48	104.2	204	37.3	39.9	1570	3.33	241.5	2.2	37.8	16.6	10.1	0.24	1.32	0.33	9	0.16	0.033
AA069667	Soil		0.53	51.83	59.00	96.5	182	43.9	35.0	1100	3.99	117.3	1.6	19.7	11.1	6.3	0.09	1.40	0.38	12	0.08	0.036
AA069668	Soil		0.43	62.40	423.54	230.6	1057	49.2	28.6	994	4.67	348.2	2.6	179.5	10.1	9.8	0.65	2.06	0.38	13	0.07	0.047
AA069669	Soil		0.47	50.90	143.22	152.7	311	45.6	25.6	802	4.41	181.5	2.0	66.7	8.8	7.1	0.28	1.07	0.35	15	0.08	0.038
AA069670	Soil		0.63	57.50	94.65	125.4	237	46.2	25.4	770	4.28	157.7	2.3	35.9	7.8	6.9	0.15	0.85	0.41	15	0.08	0.044
AA069761	Soil		0.38	36.08	26.31	70.1	66	34.5	18.6	555	3.27	49.1	1.0	9.2	11.5	8.7	0.06	0.88	0.47	10	0.07	0.034
AA069762	Soil		0.67	55.75	45.89	76.7	111	33.4	29.8	1005	3.32	250.2	1.7	67.1	7.1	15.7	0.08	1.21	0.50	13	0.09	0.057
AA069763	Soil		0.77	52.37	39.40	78.0	96	39.3	25.7	915	3.48	158.3	1.1	76.1	6.7	14.0	0.05	0.94	0.54	12	0.13	0.051
AA069764	Soil		0.58	22.76	20.86	51.3	40	18.0	9.4	377	2.29	72.0	0.7	11.2	2.4	6.3	0.08	0.46	0.32	14	0.03	0.057
AA069765	Soil		0.42	24.46	26.91	36.9	42	12.8	7.9	268	1.62	46.8	1.1	9.6	0.9	4.9	0.06	0.39	0.26	8	0.03	0.062
AA069766	Soil		0.35	29.84	24.95	57.9	98	20.6	11.3	335	2.53	29.8	1.4	5.2	3.1	7.7	0.05	0.52	0.30	10	0.03	0.055
AA069767	Soil		0.83	51.93	49.29	82.5	116	39.1	37.9	1038	3.39	36.9	1.3	9.5	11.3	25.7	0.07	1.43	0.46	9	0.19	0.050
AA069768	Soil		0.61	46.95	53.97	90.7	45	40.7	26.5	990	4.08	27.1	1.3	3.8	12.2	18.2	0.04	0.64	0.63	14	0.08	0.054
AA069769	Soil		0.37	34.63	27.28	86.0	54	32.3	15.3	405	3.58	43.8	1.4	5.3	12.0	11.6	0.05	0.66	0.36	11	0.05	0.049
AA069770	Soil		0.37	39.33	30.29	92.8	111	34.7	18.2	434	3.45	50.8	1.9	5.9	12.7	16.2	0.07	0.80	0.39	9	0.09	0.043



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**Project:** None Given  
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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
AA069651	Soil	18.9	6.4	0.11	35.3	0.002	1	0.43	0.003	0.04	<0.1	2.2	0.04	<0.02	14	0.1	<0.02	1.0	1.33	<0.1	0.04
AA069652	Soil	27.8	16.0	0.28	54.7	0.006	2	1.08	0.003	0.05	0.1	1.8	0.07	<0.02	14	0.4	0.04	3.1	1.73	<0.1	0.03
AA069653	Soil	21.8	14.0	0.34	24.5	<0.001	<1	1.03	0.003	0.05	<0.1	2.4	0.05	<0.02	10	<0.1	0.05	2.7	1.64	<0.1	0.05
AA069654	Soil	26.1	17.0	0.42	37.3	0.003	<1	1.28	0.003	0.04	<0.1	1.8	0.05	<0.02	7	<0.1	0.02	3.7	1.34	<0.1	0.02
AA069655	Soil	22.9	16.5	0.38	31.2	0.005	1	1.13	0.002	0.03	<0.1	1.3	0.05	<0.02	14	0.2	0.05	3.4	1.14	<0.1	0.04
AA069656	Soil	23.9	15.4	0.42	30.7	0.003	1	1.17	0.002	0.03	<0.1	1.5	0.03	<0.02	8	<0.1	0.02	3.0	0.97	<0.1	0.03
AA069657	Soil	25.9	35.3	0.99	38.4	0.003	<1	1.94	0.004	0.04	<0.1	3.1	0.04	<0.02	14	<0.1	0.08	5.1	1.19	<0.1	0.04
AA069658	Soil	32.3	31.9	0.77	63.5	0.014	2	2.07	0.004	0.07	0.1	2.8	0.09	<0.02	13	0.3	0.08	6.2	1.84	<0.1	0.03
AA069659	Soil	20.2	35.1	0.79	49.7	0.005	1	2.03	0.006	0.05	0.1	2.2	0.07	0.03	16	0.5	0.04	5.7	1.79	<0.1	0.08
AA069660	Soil	22.6	25.8	0.81	46.5	0.002	1	1.91	0.004	0.04	<0.1	2.2	0.06	<0.02	12	0.2	0.05	5.3	1.51	<0.1	0.07
AA069661	Soil	18.7	29.6	1.09	22.7	<0.001	<1	2.17	0.002	0.02	<0.1	3.1	0.03	<0.02	12	<0.1	0.07	5.6	0.96	<0.1	0.17
AA069662	Soil	17.5	30.6	0.90	23.5	0.002	<1	2.02	0.003	0.02	<0.1	1.6	0.05	0.05	31	0.3	0.06	5.8	1.54	<0.1	0.26
AA069663	Soil	20.0	29.2	0.88	21.1	0.002	<1	2.09	0.003	0.03	<0.1	1.6	0.04	0.03	10	0.3	0.06	6.0	1.71	<0.1	0.18
AA069664	Soil	22.6	32.0	0.97	22.3	0.004	<1	2.31	0.002	0.02	<0.1	1.7	0.04	0.02	25	0.1	0.04	6.6	1.51	<0.1	0.13
AA069665	Soil	19.9	36.1	0.80	25.9	0.008	2	1.99	0.003	0.03	<0.1	1.9	0.04	0.05	47	0.4	0.07	6.4	1.89	<0.1	0.11
AA069666	Soil	26.1	20.7	0.73	33.2	<0.001	<1	1.75	0.003	0.03	<0.1	2.0	0.05	<0.02	19	<0.1	0.05	4.3	2.22	<0.1	0.04
AA069667	Soil	26.4	26.5	0.87	25.8	<0.001	<1	1.90	0.004	0.03	<0.1	2.1	0.04	<0.02	12	<0.1	0.05	5.3	1.83	<0.1	0.08
AA069668	Soil	31.8	32.5	1.01	22.3	0.001	2	2.24	0.005	0.03	<0.1	2.7	0.03	0.03	50	<0.1	0.04	6.0	1.93	<0.1	0.06
AA069669	Soil	15.9	31.3	1.00	14.1	<0.001	<1	2.32	0.004	0.03	<0.1	2.3	0.02	<0.02	13	0.2	0.08	6.3	1.55	<0.1	0.06
AA069670	Soil	18.0	30.6	0.95	18.4	<0.001	<1	2.23	0.004	0.03	<0.1	2.1	0.03	<0.02	14	0.1	0.05	6.4	2.01	<0.1	0.06
AA069761	Soil	22.1	15.5	0.68	28.5	0.001	<1	1.38	0.003	0.04	<0.1	1.8	0.04	<0.02	17	<0.1	0.05	3.6	0.91	<0.1	0.05
AA069762	Soil	18.3	17.6	0.70	38.8	0.003	<1	1.61	0.009	0.04	<0.1	1.9	0.04	<0.02	13	<0.1	0.13	4.0	1.55	<0.1	0.03
AA069763	Soil	18.2	20.5	0.91	26.7	0.002	<1	1.70	0.005	0.03	<0.1	2.0	0.03	<0.02	19	<0.1	0.09	4.5	0.93	<0.1	0.04
AA069764	Soil	12.3	11.5	0.33	29.3	0.006	<1	1.16	0.010	0.03	<0.1	0.8	0.06	0.05	44	0.3	0.06	3.3	1.10	<0.1	0.06
AA069765	Soil	9.7	6.9	0.21	19.1	0.007	2	0.90	0.016	0.03	<0.1	0.4	0.04	0.04	33	0.1	0.04	2.8	0.76	<0.1	0.02
AA069766	Soil	12.4	14.0	0.44	31.8	0.003	2	1.33	0.009	0.04	<0.1	0.9	0.04	0.03	18	<0.1	0.04	3.7	0.96	<0.1	0.09
AA069767	Soil	19.1	19.7	0.79	30.9	0.001	<1	1.51	0.002	0.03	<0.1	2.1	0.04	<0.02	12	<0.1	0.08	3.8	1.04	<0.1	0.17
AA069768	Soil	29.8	25.4	1.07	25.8	0.003	<1	2.02	0.002	0.02	<0.1	1.8	0.03	<0.02	14	<0.1	0.12	5.1	0.66	<0.1	0.07
AA069769	Soil	27.8	19.9	0.69	18.6	0.004	2	1.51	0.003	0.02	<0.1	1.3	0.02	<0.02	10	<0.1	0.04	4.3	0.67	<0.1	0.04
AA069770	Soil	22.9	17.1	0.59	23.3	0.003	2	1.39	0.004	0.03	<0.1	1.6	0.03	<0.02	12	<0.1	0.03	3.9	0.92	<0.1	0.07



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
AA069651	Soil	0.07	3.3	0.5	<0.05	4.5	7.85	40.0	<0.02	<1	0.3	6.3	<10	<2
AA069652	Soil	0.25	6.9	0.5	<0.05	0.8	5.00	54.5	<0.02	<1	0.5	16.1	<10	<2
AA069653	Soil	<0.02	3.7	0.9	<0.05	5.0	3.98	40.7	<0.02	<1	0.5	20.6	<10	<2
AA069654	Soil	0.09	4.2	0.2	<0.05	2.5	4.44	50.8	<0.02	<1	0.3	29.0	<10	<2
AA069655	Soil	0.15	5.0	0.3	<0.05	1.3	2.80	44.9	<0.02	<1	0.3	25.7	<10	<2
AA069656	Soil	0.06	3.4	0.2	<0.05	1.8	3.66	46.3	<0.02	<1	0.4	27.7	<10	<2
AA069657	Soil	0.05	4.1	1.1	<0.05	2.2	4.27	46.5	<0.02	<1	0.4	58.4	<10	<2
AA069658	Soil	0.35	8.7	0.7	<0.05	1.8	6.38	60.8	0.02	<1	0.4	45.8	<10	<2
AA069659	Soil	0.24	7.5	0.5	<0.05	2.7	6.27	40.0	0.02	<1	0.5	55.9	<10	<2
AA069660	Soil	0.13	6.0	0.3	<0.05	3.2	4.94	40.4	0.02	<1	0.4	54.2	<10	<2
AA069661	Soil	<0.02	2.0	0.2	<0.05	6.6	5.96	33.6	0.04	<1	0.4	77.1	<10	2
AA069662	Soil	0.09	3.8	0.2	<0.05	8.4	2.50	32.5	<0.02	2	0.4	65.8	<10	<2
AA069663	Soil	0.10	4.1	0.2	<0.05	6.2	2.61	37.8	<0.02	<1	0.6	68.4	<10	<2
AA069664	Soil	0.12	3.8	0.1	<0.05	5.8	2.55	41.3	<0.02	<1	0.2	81.0	<10	2
AA069665	Soil	0.29	5.3	1.0	<0.05	3.2	2.58	38.5	0.02	<1	0.2	63.8	<10	<2
AA069666	Soil	<0.02	2.9	0.3	<0.05	4.5	5.24	50.3	<0.02	<1	0.6	52.8	<10	<2
AA069667	Soil	<0.02	2.7	0.2	<0.05	5.3	3.83	49.9	<0.02	<1	0.6	66.9	<10	<2
AA069668	Soil	0.03	3.0	0.3	<0.05	5.6	5.49	57.3	0.04	<1	0.7	82.1	<10	<2
AA069669	Soil	0.02	2.0	0.3	<0.05	4.4	3.14	30.5	<0.02	<1	0.3	77.8	<10	<2
AA069670	Soil	<0.02	2.7	0.3	<0.05	2.6	3.52	33.3	0.02	<1	0.5	78.9	<10	<2
AA069761	Soil	<0.02	3.4	0.4	<0.05	2.9	4.06	40.8	0.03	<1	0.6	40.7	<10	<2
AA069762	Soil	0.07	4.6	0.3	<0.05	1.7	4.88	33.8	<0.02	<1	0.4	43.8	<10	<2
AA069763	Soil	0.03	2.9	0.4	<0.05	1.8	3.87	32.6	<0.02	<1	0.4	54.6	<10	<2
AA069764	Soil	0.23	5.4	0.3	<0.05	2.4	1.97	22.6	<0.02	<1	0.2	20.3	<10	<2
AA069765	Soil	0.22	3.6	0.4	<0.05	1.4	1.79	17.7	<0.02	<1	0.2	12.9	<10	<2
AA069766	Soil	0.11	4.4	0.3	<0.05	3.5	2.89	22.4	<0.02	<1	0.4	29.8	<10	<2
AA069767	Soil	<0.02	1.7	0.3	<0.05	12.7	5.38	34.3	<0.02	<1	0.4	51.4	<10	<2
AA069768	Soil	0.04	2.2	0.3	<0.05	3.7	4.04	50.6	<0.02	<1	0.3	74.4	<10	<2
AA069769	Soil	0.06	2.6	0.1	<0.05	2.6	3.35	49.3	<0.02	<1	0.4	49.5	<10	<2
AA069770	Soil	0.05	2.9	0.7	<0.05	5.1	5.19	40.0	<0.02	<1	0.5	44.7	<10	<2



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000181.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
AA069771	Soil	0.47	43.92	44.48	91.2	125	35.1	22.0	780	3.51	130.0	1.9	30.7	12.8	15.6	0.06	0.91	0.46	10	0.06	0.042
AA069772	Soil	0.52	57.83	45.74	83.6	86	34.4	23.7	769	3.39	44.9	1.7	6.8	10.5	21.2	0.06	0.54	0.55	12	0.10	0.039
AA069773	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.
AA069774	Soil	0.89	55.28	55.91	84.5	130	37.4	26.1	695	3.67	29.9	2.8	2.7	7.8	17.5	0.09	0.80	0.55	13	0.08	0.062
AA069775	Soil	0.85	64.33	45.78	99.5	66	40.7	28.7	702	4.06	25.4	2.2	4.7	11.1	15.5	0.05	0.55	0.58	13	0.08	0.042
AA069776	Soil	0.81	53.78	47.35	79.8	125	31.8	26.0	890	3.46	46.6	3.0	6.3	7.9	11.6	0.07	1.49	0.48	14	0.04	0.061
AA069777	Soil	0.68	42.26	42.75	75.1	61	28.9	17.8	805	3.24	21.3	1.4	3.1	4.2	6.0	0.04	0.41	0.37	17	0.05	0.065
AA069778	Soil	0.56	28.21	23.29	60.3	44	24.2	8.2	308	3.09	20.5	1.3	3.1	2.4	5.0	0.03	0.43	0.31	16	0.03	0.083
AA069779	Soil	1.02	53.95	43.27	116.3	73	51.4	25.1	1484	5.19	168.8	9.0	58.7	8.2	10.8	0.10	2.86	0.46	17	0.01	0.055
AA069780	Soil	1.03	40.81	67.11	80.3	77	31.3	17.0	973	4.01	79.8	5.4	14.1	3.7	7.4	0.07	2.17	0.47	15	0.03	0.093
AA070721	Soil	0.72	30.15	37.95	65.8	144	35.8	17.4	294	4.01	13.4	2.9	1.8	18.1	207.6	0.07	1.40	0.32	4	4.71	0.061
AA070722	Soil	0.28	22.25	29.26	55.4	97	19.8	10.4	306	2.76	8.2	1.6	1.8	7.9	25.6	0.07	0.98	0.22	5	0.28	0.063
AA070723	Soil	0.41	55.88	44.40	104.8	177	38.8	24.1	522	3.93	15.8	2.5	3.3	18.2	23.9	0.08	0.96	0.56	11	0.22	0.057
AA070724	Soil	1.38	68.81	60.70	93.0	90	45.0	38.2	1162	4.04	87.2	1.2	6.1	10.3	13.5	0.09	1.33	0.76	13	0.10	0.068
AA070725	Soil	1.84	59.17	37.46	89.0	70	42.2	26.7	514	4.10	61.6	1.3	12.4	7.8	10.4	0.11	2.42	0.68	13	0.07	0.052
AA070726	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.
AA070727	Soil	1.48	113.42	152.74	120.7	173	53.6	70.4	1776	4.49	84.3	2.1	3.1	17.2	18.6	0.13	1.00	1.15	15	0.13	0.054
AA070728	Soil	0.35	38.92	26.52	46.4	102	17.7	9.6	391	2.62	21.9	0.7	1.0	4.6	5.3	0.04	0.22	0.42	11	0.04	0.059
AA070729	Soil	0.87	63.05	54.37	91.3	84	38.3	22.0	1375	5.08	35.5	1.1	2.8	5.9	5.8	0.10	0.34	0.75	17	0.10	0.092
AA070730	Soil	0.40	14.82	8.63	52.1	60	20.9	8.7	196	2.99	6.0	0.6	0.9	1.1	3.1	0.05	0.16	0.21	16	0.01	0.108
AA070731	Soil	0.13	4.63	2.05	5.3	13	1.1	1.0	50	0.31	0.6	0.2	0.3	<0.1	5.6	0.05	0.04	0.04	6	0.05	0.024
AA070732	Soil	0.39	30.36	22.39	84.8	47	27.6	12.5	266	6.59	32.7	0.9	1.7	6.9	1.7	0.06	0.29	0.96	18	0.01	0.073
AA070733	Soil	2.01	56.26	27.66	88.8	96	46.7	16.7	458	4.04	49.7	1.0	11.0	8.1	8.5	0.06	1.38	0.59	12	0.15	0.049
AA070734	Soil	2.66	62.64	36.18	92.3	158	52.8	23.6	743	4.05	59.2	1.0	14.4	8.3	10.5	0.16	1.54	0.58	10	0.18	0.041
AA070735	Soil	1.04	32.83	27.24	100.8	34	70.1	19.7	1077	6.39	70.1	0.6	1.1	2.4	3.9	0.17	0.78	0.42	28	0.04	0.104
AA070736	Soil	0.96	58.22	30.88	88.8	98	102.2	34.8	1772	5.52	67.5	0.7	3.4	3.8	17.9	0.33	0.80	0.29	20	0.51	0.122
AA070737	Soil	1.67	57.14	45.47	96.2	103	66.8	30.4	1144	4.18	47.1	1.3	3.9	7.8	14.3	0.32	1.33	0.35	15	0.29	0.102
AA070738	Soil	0.68	39.41	32.20	78.2	57	33.4	16.9	759	3.29	37.1	1.6	3.9	7.3	11.5	0.12	0.89	0.38	9	0.14	0.054
AA070739	Soil	0.78	39.63	29.23	76.5	63	33.3	17.7	746	3.22	34.5	1.2	5.8	9.2	14.3	0.07	0.89	0.41	9	0.16	0.053
AA070740	Soil	0.36	40.24	30.80	84.5	64	35.4	16.2	467	3.57	81.3	1.5	12.3	10.7	23.7	0.03	0.67	0.44	11	0.12	0.041



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# CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sc ppm	Tl ppm	S %	Hg ppb	Se ppm	Te ppm	Ga ppm	Cs ppm	Ge ppm	Hf ppm	
AA069771	Soil	25.8	18.5	0.65	24.9	0.003	2	1.48	0.003	0.04	0.1	1.8	0.04	<0.02	27	<0.1	0.06	3.9	0.98	<0.1	0.04
AA069772	Soil	20.0	19.9	0.87	20.1	0.003	2	1.70	0.004	0.04	<0.1	1.7	0.04	<0.02	23	<0.1	0.07	4.7	1.41	<0.1	0.06
AA069773	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.
AA069774	Soil	20.8	25.8	0.76	28.9	0.005	4	1.68	0.003	0.05	<0.1	1.7	0.05	0.05	71	<0.1	0.11	4.6	0.90	<0.1	0.09
AA069775	Soil	25.7	26.0	0.91	18.0	0.002	1	2.01	0.004	0.03	<0.1	1.9	0.03	<0.02	14	<0.1	0.11	5.3	0.76	<0.1	0.04
AA069776	Soil	23.7	22.3	0.71	17.8	0.006	<1	1.64	0.009	0.03	<0.1	1.9	0.05	0.02	26	0.1	0.06	4.8	1.54	<0.1	0.03
AA069777	Soil	21.5	22.6	0.71	17.6	0.009	1	1.74	0.013	0.04	<0.1	1.5	0.04	0.02	15	<0.1	0.05	5.2	1.27	<0.1	0.07
AA069778	Soil	17.4	20.9	0.62	14.6	0.006	<1	1.55	0.010	0.03	<0.1	1.1	0.04	0.03	10	0.2	0.04	5.0	1.41	<0.1	0.07
AA069779	Soil	28.3	36.1	1.04	22.0	0.001	<1	2.44	0.004	0.03	<0.1	2.6	0.05	0.03	40	<0.1	0.07	7.0	1.92	<0.1	0.16
AA069780	Soil	15.0	29.4	0.71	23.4	0.003	<1	1.78	0.006	0.04	<0.1	1.7	0.04	0.07	44	0.2	0.08	5.6	3.29	<0.1	0.17
AA070721	Soil	10.9	6.1	0.23	30.3	0.002	1	0.69	0.006	0.03	<0.1	2.3	0.04	0.09	67	0.3	0.05	1.3	0.43	<0.1	0.16
AA070722	Soil	9.0	4.9	0.14	47.3	0.003	<1	0.78	0.015	0.03	<0.1	1.7	0.03	0.04	22	<0.1	0.03	1.4	0.47	<0.1	0.08
AA070723	Soil	14.9	21.0	0.66	39.8	0.001	<1	1.70	0.004	0.03	<0.1	2.6	0.03	<0.02	28	<0.1	0.06	4.5	0.61	<0.1	0.14
AA070724	Soil	29.7	24.4	1.09	30.7	0.005	1	1.93	0.006	0.04	<0.1	2.5	0.04	<0.02	6	<0.1	0.13	5.3	0.96	<0.1	0.07
AA070725	Soil	17.8	21.0	0.76	26.3	0.004	1	1.52	0.002	0.02	<0.1	2.3	0.03	<0.02	9	<0.1	0.13	4.2	0.88	<0.1	0.06
AA070726	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.
AA070727	Soil	21.8	24.1	1.27	43.5	0.002	1	2.11	0.003	0.04	<0.1	2.6	0.04	<0.02	10	<0.1	0.17	5.3	1.52	0.1	0.11
AA070728	Soil	8.9	15.2	0.55	23.8	0.006	1	1.42	0.012	0.03	<0.1	1.0	0.04	0.04	33	<0.1	0.04	3.8	0.76	<0.1	0.07
AA070729	Soil	12.7	34.2	1.14	28.5	0.002	1	2.38	0.002	0.02	<0.1	2.8	0.02	0.05	25	<0.1	0.08	6.6	1.58	<0.1	0.11
AA070730	Soil	9.2	21.1	0.70	19.9	0.003	1	1.55	0.002	0.03	<0.1	0.6	0.04	0.05	22	0.2	<0.02	5.6	1.08	<0.1	<0.02
AA070731	Soil	1.6	1.2	0.03	12.7	0.013	<1	0.38	0.027	0.02	<0.1	<0.1	<0.02	0.02	14	<0.1	<0.02	1.6	0.10	<0.1	<0.02
AA070732	Soil	17.9	27.7	0.69	10.0	0.005	1	1.76	0.003	0.02	<0.1	1.5	0.03	0.04	30	<0.1	0.12	9.8	1.42	<0.1	0.08
AA070733	Soil	19.8	26.1	0.90	24.1	0.001	<1	1.78	0.002	0.02	<0.1	3.1	0.03	<0.02	17	<0.1	0.10	4.6	0.75	<0.1	0.13
AA070734	Soil	16.2	22.2	0.81	22.3	0.001	<1	1.55	0.002	0.02	<0.1	4.1	0.03	<0.02	16	0.1	0.09	4.0	0.56	<0.1	0.17
AA070735	Soil	13.3	71.4	0.79	25.5	0.005	<1	1.61	0.002	0.02	<0.1	3.5	0.03	0.04	33	0.2	0.05	6.6	0.62	<0.1	0.04
AA070736	Soil	15.9	52.6	0.75	33.7	0.004	1	1.39	0.005	0.02	<0.1	7.3	0.02	0.04	34	0.1	0.03	3.6	0.46	<0.1	0.08
AA070737	Soil	21.8	31.7	0.86	34.3	0.006	2	1.50	0.008	0.02	<0.1	5.1	0.03	<0.02	22	<0.1	0.06	3.6	0.64	0.1	0.11
AA070738	Soil	22.2	16.3	0.66	27.7	0.003	<1	1.39	0.004	0.03	<0.1	2.4	0.03	<0.02	23	0.1	0.07	3.4	0.68	<0.1	0.05
AA070739	Soil	20.9	16.1	0.69	25.6	0.003	<1	1.35	0.003	0.02	<0.1	2.3	0.02	<0.02	10	<0.1	0.09	3.4	0.49	<0.1	0.08
AA070740	Soil	21.1	21.0	0.85	23.2	0.002	<1	1.73	0.004	0.03	<0.1	1.7	0.02	<0.02	16	<0.1	0.08	4.4	0.92	<0.1	0.05



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA069771	Soil	0.05	3.3	0.4	<0.05	2.3	4.88	45.9	0.02	<1	0.5	43.6	<10	<2
AA069772	Soil	0.05	3.7	0.3	<0.05	4.9	4.91	33.5	<0.02	<1	0.4	57.2	<10	<2
AA069773	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.
AA069774	Soil	0.11	4.5	1.8	<0.05	3.5	5.16	37.5	0.02	<1	0.4	50.2	<10	<2
AA069775	Soil	0.03	2.2	0.4	<0.05	3.9	3.91	43.8	0.03	<1	0.4	69.1	<10	<2
AA069776	Soil	0.10	3.3	0.4	<0.05	2.3	4.33	44.1	0.02	<1	0.2	49.8	<10	<2
AA069777	Soil	0.13	3.9	0.3	<0.05	2.5	2.66	39.3	<0.02	<1	0.3	52.6	<10	2
AA069778	Soil	0.15	4.4	0.3	<0.05	2.6	1.85	32.0	<0.02	<1	0.1	44.3	<10	<2
AA069779	Soil	0.04	3.3	0.3	<0.05	5.9	3.85	46.9	0.03	<1	0.4	91.0	<10	<2
AA069780	Soil	0.12	4.4	0.6	<0.05	5.5	2.60	26.2	0.02	<1	0.3	59.0	<10	<2
AA070721	Soil	0.06	1.8	0.1	<0.05	13.7	7.53	19.0	0.02	<1	0.4	12.4	<10	<2
AA070722	Soil	0.14	3.6	0.3	<0.05	2.6	6.95	16.8	0.02	<1	0.3	7.0	<10	<2
AA070723	Soil	0.06	2.9	0.2	<0.05	6.0	7.98	24.6	0.03	<1	0.3	54.9	<10	<2
AA070724	Soil	0.10	4.1	0.4	<0.05	2.5	5.89	51.7	0.02	<1	0.4	65.1	<10	<2
AA070725	Soil	0.11	3.0	0.2	<0.05	2.2	4.87	32.2	0.03	<1	0.4	48.8	<10	<2
AA070726	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.
AA070727	Soil	0.03	2.9	0.2	<0.05	9.0	6.34	37.7	0.02	<1	0.8	71.6	<10	2
AA070728	Soil	0.18	4.7	0.1	<0.05	3.0	1.93	16.5	<0.02	<1	0.3	36.6	<10	<2
AA070729	Soil	0.09	3.3	0.2	<0.05	4.4	4.98	23.2	0.04	<1	0.5	83.0	<10	<2
AA070730	Soil	0.16	4.8	0.2	<0.05	0.6	1.65	16.3	<0.02	<1	0.2	46.1	<10	<2
AA070731	Soil	0.14	0.7	<0.1	<0.05	0.2	0.41	2.9	<0.02	<1	<0.1	0.8	<10	<2
AA070732	Soil	0.12	3.2	0.4	<0.05	3.4	1.44	31.1	<0.02	<1	<0.1	51.7	<10	<2
AA070733	Soil	0.04	2.6	0.1	<0.05	5.4	7.48	36.1	0.02	<1	0.5	63.6	<10	<2
AA070734	Soil	0.03	1.6	0.2	<0.05	7.3	9.36	28.4	0.03	<1	0.4	56.5	<10	<2
AA070735	Soil	0.19	3.0	0.2	<0.05	1.7	3.73	25.1	0.04	<1	0.2	53.5	<10	<2
AA070736	Soil	0.13	2.5	0.3	<0.05	3.1	15.75	27.2	0.04	<1	0.4	48.4	<10	<2
AA070737	Soil	0.13	2.3	0.3	<0.05	5.1	13.50	40.4	0.04	<1	0.4	51.2	<10	<2
AA070738	Soil	0.07	3.2	0.4	<0.05	2.5	9.24	38.4	<0.02	<1	0.3	41.1	<10	<2
AA070739	Soil	0.06	1.9	0.1	<0.05	5.5	6.70	36.3	<0.02	<1	0.4	42.1	<10	<2
AA070740	Soil	0.04	2.8	0.2	<0.05	4.6	4.36	34.2	<0.02	<1	0.4	60.3	<10	<2



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000181.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
AA069751	Soil	0.40	78.06	73.71	118.3	92	46.3	41.5	1359	4.25	24.7	2.1	5.2	19.6	16.1	0.08	0.73	0.59	17	0.13	0.035
AA069752	Soil	0.48	47.53	54.60	110.5	231	38.2	24.6	949	3.94	103.9	2.2	33.1	11.6	42.9	0.14	5.84	0.53	8	0.50	0.057
AA069753	Soil	0.34	19.55	26.25	59.0	118	15.8	8.4	290	2.23	43.3	1.2	8.1	1.0	27.8	0.07	3.70	0.38	8	0.37	0.073
AA069754	Soil	0.44	57.30	72.12	110.6	221	43.8	35.9	989	4.14	49.7	1.9	13.1	20.5	26.2	0.14	2.51	0.67	9	0.35	0.057
AA069755	Soil	0.35	46.04	49.16	104.9	137	39.4	26.3	780	3.94	9.4	1.5	1.7	18.7	28.1	0.10	0.75	0.56	9	0.28	0.067
AA069756	Soil	0.32	45.38	48.21	97.5	166	38.0	24.3	992	4.16	8.9	1.8	2.0	17.2	22.9	0.11	0.77	0.60	11	0.25	0.055
AA069757	Soil	0.78	41.32	47.94	79.3	61	29.8	22.3	1092	3.63	281.5	1.7	10.7	7.9	9.7	0.11	1.43	0.55	14	0.04	0.095
AA069758	Soil	0.50	34.52	41.61	76.6	81	29.0	20.7	787	2.94	195.3	1.8	15.3	9.9	12.0	0.11	1.03	0.35	11	0.07	0.065
AA069759	Soil	0.56	56.27	67.92	95.1	158	36.7	30.1	585	3.47	69.3	3.0	9.7	21.4	21.4	0.10	1.55	0.55	11	0.05	0.047
AA069760	Soil	0.40	41.30	36.95	90.3	110	33.8	16.8	506	3.53	73.9	1.5	9.7	11.1	12.4	0.05	1.63	0.54	11	0.08	0.043
AA070711	Soil	0.52	25.12	26.67	81.1	79	28.0	11.7	281	3.51	57.2	9.1	1.6	9.0	21.6	0.06	0.51	0.44	13	0.18	0.060
AA070712	Soil	0.33	22.06	19.62	77.1	49	31.6	9.5	245	3.71	11.6	3.2	1.0	9.9	16.0	<0.01	0.40	0.36	13	0.10	0.032
AA070713	Soil	0.30	23.35	23.14	77.6	44	27.4	11.7	281	3.08	55.6	1.4	3.5	9.5	7.5	0.06	0.54	0.40	13	0.07	0.051
AA070714	Soil	0.32	43.07	33.51	86.0	78	38.3	18.9	554	3.50	38.5	0.6	3.0	16.1	74.1	0.07	0.69	0.46	12	2.10	0.042
AA070715	Soil	0.29	45.54	36.08	90.6	74	39.0	19.8	580	3.86	42.9	0.7	5.5	17.4	37.0	0.05	0.81	0.48	12	0.58	0.042
AA070716	Soil	0.29	49.19	34.84	94.7	101	36.7	16.8	371	3.72	27.2	1.9	3.3	15.9	26.0	0.05	0.53	0.53	12	0.25	0.050
AA070717	Soil	0.25	37.21	25.24	95.7	81	35.4	13.8	350	3.80	16.1	0.8	2.2	13.2	13.2	0.05	0.57	0.44	12	0.12	0.041
AA070718	Soil	0.91	87.83	49.24	97.9	632	43.8	30.8	639	4.01	58.8	29.9	7.3	15.0	56.7	0.14	1.41	0.79	14	0.49	0.069
AA070719	Soil	0.50	16.50	13.10	76.3	44	22.7	7.4	266	3.14	13.3	0.7	0.7	5.4	5.0	0.05	0.36	0.38	13	0.02	0.062
AA070720	Soil	0.25	31.38	45.86	79.4	107	36.1	23.8	484	3.69	15.5	2.2	3.6	24.6	26.6	0.10	1.65	0.26	5	0.17	0.030
AA069961	Soil	0.47	51.30	40.22	100.6	56	39.9	24.1	760	4.06	30.8	2.0	2.0	11.4	5.2	0.10	0.50	0.59	17	0.03	0.051
AA069962	Soil	0.82	100.11	51.69	117.2	123	55.5	46.0	916	4.55	126.0	7.2	30.8	15.6	25.2	0.11	1.19	0.63	14	0.07	0.064
AA069963	Soil	0.67	71.97	66.17	117.3	123	40.4	31.7	1135	3.88	42.9	3.0	5.4	14.4	4.7	0.11	0.70	0.71	17	0.02	0.087
AA069964	Soil	0.59	48.00	56.99	74.5	123	24.7	19.7	885	3.09	13.6	2.7	1.4	5.3	4.5	0.10	0.58	0.62	15	0.02	0.094
AA069965	Soil	0.76	53.70	89.86	106.9	60	35.8	30.3	994	4.51	20.8	2.9	1.4	14.6	4.6	0.08	0.90	1.13	14	0.02	0.058
AA069966	Soil	0.29	23.61	18.15	63.3	41	23.8	9.0	200	3.08	8.4	1.0	1.2	8.7	4.9	0.07	0.41	0.40	12	0.02	0.046
AA069967	Soil	0.27	41.79	31.63	86.5	98	35.7	17.4	479	3.77	13.6	1.2	3.1	11.7	8.1	0.10	0.68	0.48	11	0.06	0.049
AA069968	Soil	0.24	19.89	13.11	46.0	59	19.6	6.2	249	2.18	4.9	0.8	0.8	4.0	4.6	0.03	0.26	0.26	10	0.03	0.049
AA069969	Soil	0.30	26.34	17.69	71.9	63	27.0	8.2	258	3.19	7.2	1.1	4.5	8.0	4.7	0.07	0.36	0.39	12	0.02	0.047
AA069970	Soil	0.19	31.55	28.73	68.6	46	28.3	13.4	415	3.12	24.8	0.7	3.0	11.5	10.5	0.05	0.74	0.39	10	0.08	0.030



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# CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sc ppm	Tl ppm	S %	Hg ppb	Se ppm	Te ppm	Ga ppm	Cs ppm	Ge ppm	Hf ppm	
AA069751	Soil	26.2	31.6	0.94	49.3	<0.001	<1	2.32	0.002	0.03	<0.1	2.3	0.03	<0.02	13	<0.1	0.08	6.2	2.38	<0.1	0.07
AA069752	Soil	10.7	13.0	0.35	43.1	0.003	3	1.23	0.012	0.04	<0.1	3.5	0.04	0.04	38	0.3	0.03	3.0	1.56	<0.1	0.08
AA069753	Soil	6.8	6.1	0.14	29.7	0.006	2	0.67	0.019	0.03	<0.1	1.1	0.03	0.06	34	<0.1	0.03	2.6	0.95	<0.1	<0.02
AA069754	Soil	13.3	19.8	0.61	25.8	0.001	<1	1.51	0.003	0.03	<0.1	3.9	0.04	0.02	42	<0.1	0.03	3.8	1.03	<0.1	0.09
AA069755	Soil	14.2	20.1	0.65	21.4	0.001	<1	1.54	0.002	0.02	<0.1	3.1	0.03	<0.02	27	<0.1	0.03	4.1	0.62	<0.1	0.15
AA069756	Soil	15.1	21.8	0.65	29.5	0.002	<1	1.81	0.003	0.02	<0.1	3.8	0.03	<0.02	33	<0.1	0.03	4.4	0.71	<0.1	0.18
AA069757	Soil	18.7	16.0	0.39	35.2	0.004	1	1.35	0.003	0.05	<0.1	1.5	0.07	0.05	46	0.4	0.08	3.8	1.29	<0.1	0.06
AA069758	Soil	18.6	14.8	0.40	31.4	0.004	<1	1.17	0.006	0.04	0.1	1.6	0.04	<0.02	18	0.1	0.03	3.0	1.06	<0.1	0.02
AA069759	Soil	16.2	19.1	0.55	25.8	0.003	<1	1.43	0.005	0.04	<0.1	1.6	0.05	0.03	23	<0.1	0.07	3.9	1.16	<0.1	0.04
AA069760	Soil	19.2	15.9	0.56	56.2	0.001	<1	1.43	0.004	0.06	<0.1	2.3	0.05	<0.02	13	<0.1	0.08	3.3	1.52	<0.1	0.04
AA070711	Soil	21.4	19.4	0.51	36.3	0.003	<1	1.52	0.004	0.03	<0.1	3.0	0.05	0.02	33	0.1	0.03	3.9	0.82	<0.1	0.10
AA070712	Soil	17.5	24.7	0.69	47.6	0.002	<1	1.89	0.003	0.04	<0.1	1.4	0.04	<0.02	11	<0.1	<0.02	5.0	0.71	<0.1	0.07
AA070713	Soil	16.3	21.5	0.61	26.2	0.004	<1	1.69	0.005	0.03	<0.1	1.3	0.03	<0.02	10	<0.1	0.02	4.6	0.48	<0.1	0.05
AA070714	Soil	22.1	23.0	0.76	41.0	0.001	<1	1.74	0.003	0.08	<0.1	2.0	0.03	<0.02	8	<0.1	0.09	4.3	0.53	<0.1	0.12
AA070715	Soil	25.1	23.7	0.79	45.7	0.002	1	1.86	0.004	0.08	<0.1	2.2	0.03	<0.02	9	<0.1	0.08	4.7	0.57	<0.1	0.10
AA070716	Soil	18.4	23.8	0.74	38.1	0.001	1	1.81	0.003	0.07	<0.1	1.9	0.03	<0.02	12	<0.1	0.05	4.7	0.49	<0.1	0.09
AA070717	Soil	22.9	24.4	0.68	43.6	0.001	<1	1.84	0.003	0.07	<0.1	2.0	0.03	<0.02	16	<0.1	0.03	4.7	0.52	<0.1	0.09
AA070718	Soil	16.1	29.2	0.75	51.7	0.002	1	2.09	0.006	0.09	<0.1	3.2	0.05	0.05	55	1.8	0.08	5.3	1.52	<0.1	0.20
AA070719	Soil	17.3	19.7	0.54	30.5	0.003	<1	1.55	0.004	0.05	<0.1	0.9	0.03	0.03	14	<0.1	0.04	4.5	0.52	<0.1	0.07
AA070720	Soil	13.3	7.4	0.31	20.7	<0.001	<1	0.81	0.003	0.02	<0.1	2.3	0.02	0.03	15	<0.1	<0.02	1.4	0.62	<0.1	0.14
AA069961	Soil	14.3	28.8	0.85	31.6	0.002	<1	2.22	0.003	0.03	<0.1	1.5	0.04	0.03	20	<0.1	0.07	5.8	0.88	<0.1	0.14
AA069962	Soil	11.0	27.0	0.85	35.0	0.001	<1	2.19	0.006	0.02	<0.1	1.7	0.04	0.04	15	0.2	0.05	5.4	1.07	<0.1	0.15
AA069963	Soil	12.1	26.7	0.79	25.0	0.002	<1	2.35	0.004	0.03	<0.1	1.8	0.05	<0.02	16	0.2	0.07	5.7	1.12	<0.1	0.13
AA069964	Soil	8.7	19.7	0.53	26.5	0.005	1	1.67	0.007	0.03	<0.1	0.9	0.05	0.04	27	<0.1	0.06	4.6	0.92	<0.1	0.10
AA069965	Soil	12.8	25.6	0.78	25.3	0.001	<1	2.13	0.002	0.03	<0.1	1.4	0.04	0.03	13	<0.1	0.15	5.3	0.88	<0.1	0.20
AA069966	Soil	18.1	19.7	0.51	42.2	0.002	<1	1.64	0.004	0.04	<0.1	1.5	0.05	<0.02	15	0.1	0.04	4.3	0.65	<0.1	0.08
AA069967	Soil	24.3	20.9	0.63	32.9	0.001	<1	1.67	0.003	0.05	<0.1	2.3	0.03	<0.02	29	<0.1	0.04	4.0	0.39	<0.1	0.09
AA069968	Soil	10.5	13.7	0.38	29.9	0.004	<1	1.32	0.012	0.03	<0.1	0.8	0.03	<0.02	13	<0.1	<0.02	3.4	0.43	<0.1	0.06
AA069969	Soil	15.8	21.2	0.59	44.4	0.001	<1	1.71	0.005	0.05	<0.1	1.4	0.04	0.02	15	<0.1	0.02	4.4	0.54	<0.1	0.10
AA069970	Soil	23.9	18.6	0.58	28.0	<0.001	<1	1.42	0.002	0.04	<0.1	1.8	<0.02	<0.02	20	<0.1	0.04	3.6	0.30	<0.1	0.04



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA069751	Soil	0.02	3.4	0.2	<0.05	3.3	6.76	43.8	0.03	<1	0.8	92.5	<10	<2
AA069752	Soil	0.12	4.3	0.4	<0.05	3.6	11.71	19.5	0.04	<1	0.5	28.7	<10	<2
AA069753	Soil	0.19	3.7	0.2	<0.05	0.6	4.78	12.3	0.03	<1	0.4	10.8	<10	<2
AA069754	Soil	0.04	2.4	0.3	<0.05	5.4	13.24	24.6	0.04	<1	0.9	51.8	<10	<2
AA069755	Soil	<0.02	1.8	0.2	<0.05	9.7	10.21	26.7	<0.02	<1	0.6	60.0	<10	<2
AA069756	Soil	0.05	2.2	0.1	<0.05	7.0	13.97	27.7	0.03	<1	0.7	60.0	<10	<2
AA069757	Soil	0.17	6.9	0.2	<0.05	2.3	3.45	34.2	0.03	<1	0.5	22.0	<10	<2
AA069758	Soil	0.11	5.0	0.2	<0.05	1.3	4.14	35.0	0.02	<1	0.5	24.7	<10	<2
AA069759	Soil	0.07	3.9	0.2	<0.05	3.9	4.38	30.5	0.02	<1	0.7	39.9	<10	<2
AA069760	Soil	0.07	6.7	0.3	<0.05	2.2	5.21	33.7	0.03	<1	0.5	30.7	<10	<2
AA070711	Soil	0.15	4.7	0.2	<0.05	3.3	8.23	37.3	0.03	<1	0.5	43.6	<10	<2
AA070712	Soil	0.08	5.1	0.4	<0.05	2.3	2.51	31.2	<0.02	<1	<0.1	59.3	<10	<2
AA070713	Soil	0.15	3.5	0.1	<0.05	2.1	2.38	28.8	<0.02	<1	0.3	52.1	<10	<2
AA070714	Soil	<0.02	3.7	0.3	<0.05	6.7	4.52	37.2	0.02	<1	0.3	56.3	<10	<2
AA070715	Soil	0.02	4.0	0.3	<0.05	6.1	4.96	44.9	<0.02	<1	0.3	63.0	<10	2
AA070716	Soil	0.03	3.5	0.3	<0.05	3.8	4.82	34.4	0.02	<1	0.3	64.6	<10	<2
AA070717	Soil	0.04	4.9	0.3	<0.05	4.2	3.90	40.0	<0.02	<1	0.4	58.9	<10	<2
AA070718	Soil	0.07	7.2	0.4	<0.05	5.1	12.17	26.8	0.02	<1	0.7	72.0	<10	<2
AA070719	Soil	0.13	5.7	0.3	<0.05	2.7	1.59	31.2	<0.02	<1	0.2	43.1	<10	<2
AA070720	Soil	<0.02	1.7	0.3	<0.05	11.4	7.44	25.9	0.04	<1	0.3	14.8	<10	<2
AA069961	Soil	0.09	3.6	0.1	<0.05	5.1	3.89	25.3	0.02	<1	0.6	82.3	<10	<2
AA069962	Soil	0.03	3.3	0.3	<0.05	4.8	8.04	19.6	0.02	<1	0.6	74.1	<10	<2
AA069963	Soil	0.10	4.7	0.2	<0.05	4.7	3.78	24.2	0.02	<1	0.5	78.2	<10	<2
AA069964	Soil	0.16	4.9	0.3	<0.05	3.8	3.73	16.0	<0.02	<1	0.3	49.1	<10	<2
AA069965	Soil	0.05	3.4	0.2	<0.05	6.8	3.24	23.4	0.02	<1	0.6	72.8	<10	<2
AA069966	Soil	0.15	5.5	0.2	<0.05	2.9	3.25	34.1	<0.02	<1	0.5	45.4	<10	<2
AA069967	Soil	0.04	3.0	0.2	<0.05	3.6	7.29	43.8	0.03	<1	0.3	51.2	<10	<2
AA069968	Soil	0.12	4.0	0.2	<0.05	2.4	2.06	19.5	<0.02	<1	0.2	33.7	<10	<2
AA069969	Soil	0.07	5.2	0.1	<0.05	3.7	2.73	29.0	<0.02	<1	0.3	55.2	<10	<2
AA069970	Soil	0.02	2.9	0.3	<0.05	2.3	5.39	41.1	<0.02	<1	0.2	50.4	<10	<2



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000181.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
AA069781	Soil	0.27	58.05	27.34	122.9	57	52.0	25.9	765	5.22	36.1	3.2	11.3	11.7	6.3	0.04	0.50	0.38	20	0.04	0.027
AA069782	Soil	0.95	100.84	57.61	110.2	94	61.9	35.0	2824	4.72	35.7	3.0	4.8	7.2	10.0	0.12	0.31	1.31	20	0.11	0.059
AA069783	Soil	0.66	88.04	65.28	97.8	84	49.3	34.6	4139	4.41	16.7	1.6	1.6	4.9	7.7	0.19	0.32	0.90	19	0.10	0.088
AA069784	Soil	0.64	62.42	51.37	77.3	51	37.7	25.7	2836	4.01	13.7	1.1	1.7	4.2	4.5	0.06	0.22	0.94	20	0.04	0.078
AA069785	Soil	0.78	76.42	59.53	90.2	43	47.5	35.3	3533	4.35	13.2	1.2	0.9	5.3	5.1	0.07	0.25	0.77	20	0.05	0.082
AA069786	Soil	0.42	22.49	21.24	40.4	51	22.2	11.0	1190	2.08	6.9	0.5	0.8	0.9	6.4	0.05	0.17	0.70	13	0.07	0.073
AA069787	Soil	1.64	91.63	73.54	101.4	84	55.8	49.1	3134	5.19	55.8	1.5	2.1	3.9	6.3	0.10	1.19	0.77	19	0.05	0.086
AA069788	Soil	0.86	74.70	51.18	106.5	84	54.0	32.9	1792	5.30	83.8	1.9	23.3	5.6	13.3	0.08	0.73	0.56	20	0.08	0.058
AA069789	Soil	0.69	37.82	29.31	85.9	82	38.0	20.2	1598	4.60	40.4	1.3	3.3	2.8	4.9	0.07	0.43	0.43	22	0.03	0.108
AA069790	Soil	0.62	42.94	24.64	81.8	58	38.5	18.9	1502	4.21	24.1	1.3	0.4	2.7	6.1	0.05	0.27	0.36	20	0.08	0.093
AA068451	Soil	0.54	68.99	60.65	94.7	788	40.8	29.1	603	3.73	93.6	2.7	29.5	6.4	66.5	0.22	2.02	0.34	9	0.82	0.065
AA068452	Soil	0.57	28.29	23.02	70.2	111	26.7	9.9	350	3.35	102.3	0.8	15.4	8.4	13.0	0.13	0.86	0.20	15	0.16	0.027
AA068453	Soil	0.80	12.04	18.24	52.6	39	10.1	3.7	168	2.60	22.7	0.6	0.3	1.2	3.9	0.08	1.16	0.23	18	0.02	0.030
AA068454	Soil	0.95	11.21	24.48	127.2	48	9.4	4.2	1395	2.84	8.8	1.0	0.8	0.8	8.3	0.37	1.09	0.16	13	0.08	0.057
AA068455	Soil	0.62	46.24	41.91	94.4	187	36.6	19.5	466	3.84	17.0	1.8	6.0	10.3	32.8	0.10	0.80	0.41	10	0.47	0.060
AA068456	Soil	0.40	47.73	37.31	97.0	170	32.8	18.5	329	3.74	15.6	1.6	4.8	9.3	36.4	0.11	0.76	0.41	10	0.61	0.063
AA068457	Soil	0.44	43.78	40.12	92.8	183	35.7	18.5	422	3.81	16.4	1.7	4.3	11.5	54.1	0.10	0.93	0.39	8	0.87	0.057
AA068458	Soil	0.41	34.19	34.66	87.8	190	31.1	14.5	364	3.53	15.3	1.9	3.8	5.6	51.0	0.14	0.86	0.33	9	0.97	0.088
AA068459	Soil	0.52	43.01	36.57	84.5	157	36.9	18.5	550	4.03	16.6	1.9	1.3	12.8	54.8	0.16	1.05	0.35	11	1.08	0.092
AA068460	Soil	0.56	45.84	36.86	88.2	172	39.7	18.2	359	4.29	19.3	2.1	0.8	12.5	41.5	0.10	1.27	0.42	10	0.76	0.106
AA068461	Soil	0.59	53.33	42.57	95.0	164	41.1	21.3	537	4.37	17.7	2.3	1.0	15.2	48.6	0.17	1.20	0.46	12	0.98	0.104
AA068462	Soil	0.81	38.80	48.09	81.7	216	35.9	15.2	593	3.65	21.0	1.7	4.8	13.1	37.1	0.17	2.03	0.33	8	0.46	0.075
AA068463	Soil	0.66	37.49	43.33	80.6	183	35.8	15.7	493	3.68	21.8	1.7	3.6	14.9	41.3	0.19	2.36	0.37	6	0.67	0.078
AA068464	Soil	0.62	37.41	34.09	82.0	139	36.0	16.2	355	3.52	16.9	1.5	2.2	13.3	67.2	0.11	1.11	0.32	7	1.94	0.078
AA068465	Soil	0.46	32.82	31.08	74.7	130	33.3	14.6	328	3.20	17.1	1.7	2.1	12.7	94.5	0.09	0.78	0.29	5	4.71	0.066
AA068466	Soil	0.68	37.33	43.52	87.6	144	37.6	19.6	467	3.65	22.8	1.7	2.3	17.5	36.4	0.11	1.13	0.36	6	0.78	0.064
AA068467	Soil	0.32	23.27	20.25	65.3	79	26.8	12.7	316	2.53	14.6	2.1	0.5	3.4	572.5	0.12	0.99	0.20	7	18.64	0.083
AA068468	Soil	0.43	29.78	26.29	59.4	101	28.6	12.4	326	2.90	15.2	2.1	3.1	6.6	364.8	0.14	1.28	0.24	7	13.43	0.092
AA068469	Soil	0.43	31.10	28.93	64.9	124	30.1	12.8	386	3.05	15.8	2.1	2.1	6.7	325.0	0.18	1.41	0.26	7	11.79	0.102
AA068470	Soil	0.67	55.31	45.89	125.9	179	50.6	23.0	511	4.68	29.1	2.3	2.7	14.5	50.8	0.11	2.10	0.44	8	1.45	0.086



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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
AA069781	Soil	4.8	42.9	1.21	15.3	<0.001	<1	2.87	0.003	0.02	<0.1	3.2	<0.02	<0.02	6	<0.1	0.05	8.7	2.59	<0.1	0.13
AA069782	Soil	16.9	36.1	1.32	24.6	0.002	<1	2.69	0.003	0.03	<0.1	3.5	<0.02	<0.02	38	<0.1	0.37	6.6	2.80	<0.1	0.13
AA069783	Soil	17.0	31.1	1.15	25.6	0.004	<1	2.35	0.004	0.03	<0.1	2.9	0.03	0.06	105	0.2	0.21	6.3	2.36	<0.1	0.10
AA069784	Soil	13.9	30.4	1.12	19.9	0.005	<1	2.25	0.006	0.03	<0.1	2.6	0.03	0.03	35	0.2	0.22	5.8	1.87	<0.1	0.12
AA069785	Soil	20.7	32.5	1.22	24.1	0.003	<1	2.51	0.004	0.02	<0.1	3.0	0.02	<0.02	17	<0.1	0.17	6.2	1.89	<0.1	0.13
AA069786	Soil	8.3	15.7	0.49	19.2	0.008	<1	1.16	0.018	0.02	<0.1	0.9	<0.02	0.03	27	<0.1	0.09	3.6	0.66	<0.1	0.04
AA069787	Soil	14.1	32.1	1.35	19.8	0.002	<1	2.64	0.003	0.02	<0.1	2.4	0.04	0.03	26	0.2	0.18	6.6	1.49	<0.1	0.19
AA069788	Soil	21.2	38.5	1.42	17.2	<0.001	<1	2.89	0.003	0.03	<0.1	2.8	0.03	0.02	28	0.2	0.09	6.8	1.95	<0.1	0.12
AA069789	Soil	12.1	33.9	0.98	23.5	0.004	<1	2.28	0.003	0.03	<0.1	1.5	0.04	0.04	27	0.2	0.08	6.8	1.37	<0.1	0.13
AA069790	Soil	10.9	31.7	0.97	27.7	0.003	<1	2.24	0.005	0.03	<0.1	1.7	0.03	0.05	19	0.3	0.06	6.3	1.09	<0.1	0.13
AA068451	Soil	12.5	11.4	0.32	50.2	0.001	1	1.17	0.002	0.04	<0.1	2.8	0.05	0.07	72	0.2	0.03	2.1	0.74	<0.1	0.15
AA068452	Soil	19.3	11.3	0.29	59.4	0.003	1	1.40	0.003	0.04	<0.1	2.4	0.07	<0.02	25	0.2	<0.02	2.7	1.24	<0.1	0.06
AA068453	Soil	14.4	6.4	0.11	20.0	0.008	<1	0.65	0.006	0.02	<0.1	0.7	0.04	<0.02	21	0.1	0.02	3.0	0.58	<0.1	<0.02
AA068454	Soil	11.7	6.0	0.08	98.2	0.006	1	0.67	0.005	0.02	0.1	0.9	0.06	0.04	35	<0.1	0.03	2.1	0.51	<0.1	0.02
AA068455	Soil	19.5	16.1	0.47	42.5	0.002	<1	1.39	0.005	0.06	<0.1	3.4	0.04	0.03	33	0.2	0.05	3.1	0.74	<0.1	0.20
AA068456	Soil	17.5	13.4	0.44	46.6	0.002	<1	1.32	0.008	0.05	<0.1	2.9	0.04	0.03	37	0.2	0.04	3.1	0.82	<0.1	0.15
AA068457	Soil	22.8	11.9	0.38	40.1	0.001	1	1.22	0.005	0.04	<0.1	3.8	0.03	0.03	46	0.3	0.05	2.5	0.66	<0.1	0.16
AA068458	Soil	21.5	10.1	0.33	38.4	0.001	1	0.99	0.004	0.05	<0.1	3.6	0.04	0.06	63	0.3	0.04	2.2	0.68	<0.1	0.16
AA068459	Soil	29.5	10.0	0.36	39.3	0.003	<1	1.05	0.007	0.04	<0.1	4.9	0.03	0.02	48	0.3	0.06	2.2	0.56	<0.1	0.13
AA068460	Soil	31.2	10.0	0.34	34.7	0.003	1	0.96	0.005	0.04	<0.1	5.0	0.03	0.02	35	0.3	0.07	2.1	0.58	<0.1	0.14
AA068461	Soil	32.2	11.6	0.39	33.1	0.004	<1	1.01	0.005	0.04	<0.1	5.2	0.04	0.03	54	0.5	0.06	2.3	0.57	0.1	0.15
AA068462	Soil	26.4	9.3	0.25	35.1	0.004	1	0.88	0.007	0.04	<0.1	4.7	0.04	0.03	45	0.5	0.06	1.7	0.52	<0.1	0.12
AA068463	Soil	25.4	6.4	0.22	27.4	0.002	1	0.72	0.004	0.03	<0.1	5.0	0.03	0.03	54	0.3	0.10	1.2	0.46	<0.1	0.15
AA068464	Soil	19.6	7.8	0.25	41.8	0.002	1	0.90	0.004	0.04	<0.1	3.9	0.03	0.03	42	0.3	0.09	1.4	0.46	<0.1	0.13
AA068465	Soil	16.1	6.0	0.27	36.1	0.002	<1	0.82	0.004	0.03	<0.1	3.4	0.02	<0.02	40	0.3	0.08	1.5	0.41	<0.1	0.15
AA068466	Soil	18.7	5.9	0.23	38.7	0.002	<1	0.80	0.004	0.04	<0.1	3.4	0.04	<0.02	39	0.2	0.06	1.2	0.68	<0.1	0.22
AA068467	Soil	9.9	5.0	0.20	35.3	0.004	1	0.55	0.003	0.03	0.1	2.0	0.05	<0.02	48	0.1	0.11	1.0	0.44	<0.1	0.05
AA068468	Soil	14.2	5.4	0.20	31.2	0.004	2	0.63	0.005	0.03	<0.1	2.7	0.04	0.04	48	0.3	0.10	0.9	0.42	<0.1	0.05
AA068469	Soil	17.8	5.6	0.21	34.9	0.004	2	0.72	0.006	0.04	0.1	3.6	0.04	0.05	63	0.3	0.09	1.1	0.45	<0.1	0.07
AA068470	Soil	25.0	8.9	0.25	37.2	0.002	1	0.81	0.003	0.04	0.1	5.6	0.04	<0.02	34	0.2	0.15	1.7	0.77	<0.1	0.07



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**Project:** None Given  
**Report Date:** September 08, 2016

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Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA069781	Soil	0.02	2.0	0.1	<0.05	8.1	2.32	13.1	0.03	<1	0.3	99.5	<10	<2
AA069782	Soil	0.04	2.3	0.2	<0.05	6.2	8.57	32.5	0.02	<1	0.7	105.5	<10	<2
AA069783	Soil	0.08	3.0	0.2	<0.05	3.6	5.62	35.6	0.03	<1	0.6	96.1	<10	<2
AA069784	Soil	0.08	3.1	0.2	<0.05	4.8	6.04	27.8	<0.02	<1	0.4	79.0	<10	<2
AA069785	Soil	0.06	3.1	0.2	<0.05	5.1	6.12	38.6	<0.02	<1	0.5	95.7	<10	<2
AA069786	Soil	0.10	2.0	0.4	<0.05	1.3	1.72	15.8	<0.02	<1	0.2	35.7	<10	<2
AA069787	Soil	0.05	2.0	0.1	<0.05	6.7	4.03	29.0	0.04	2	0.5	99.0	16	<2
AA069788	Soil	<0.02	2.5	0.3	<0.05	4.9	3.74	37.8	<0.02	<1	0.4	107.8	<10	5
AA069789	Soil	0.17	3.4	0.2	<0.05	3.9	2.63	22.4	<0.02	<1	0.3	72.3	<10	<2
AA069790	Soil	0.14	3.6	0.2	<0.05	3.0	3.27	20.6	0.02	<1	0.3	73.4	<10	<2
AA068451	Soil	0.14	3.7	0.2	<0.05	5.0	17.38	26.1	0.04	<1	0.8	17.1	<10	<2
AA068452	Soil	0.33	5.4	0.2	<0.05	2.2	5.86	42.5	0.02	1	0.5	14.8	<10	<2
AA068453	Soil	0.39	3.6	0.4	<0.05	0.7	2.19	31.6	<0.02	1	<0.1	2.9	<10	<2
AA068454	Soil	0.17	3.5	0.3	<0.05	0.7	4.90	30.1	<0.02	1	0.3	4.0	<10	<2
AA068455	Soil	0.13	3.6	2.4	<0.05	9.8	10.44	36.1	0.03	2	0.5	31.8	<10	<2
AA068456	Soil	0.13	3.5	0.3	<0.05	7.2	9.10	32.0	<0.02	2	0.5	29.4	<10	<2
AA068457	Soil	0.09	2.7	1.3	<0.05	8.1	11.68	42.3	0.03	<1	0.5	24.5	<10	<2
AA068458	Soil	0.13	3.1	0.8	<0.05	5.9	11.97	37.8	0.03	<1	0.5	20.2	13	<2
AA068459	Soil	0.10	2.6	1.6	<0.05	8.8	14.07	54.1	0.03	<1	0.5	20.9	<10	<2
AA068460	Soil	0.10	2.8	0.5	<0.05	9.0	15.10	53.3	0.04	<1	0.6	19.2	<10	<2
AA068461	Soil	0.09	2.4	1.5	<0.05	10.5	14.79	56.6	0.03	<1	0.6	23.1	<10	<2
AA068462	Soil	0.11	2.7	3.8	<0.05	7.6	18.09	49.2	0.04	1	0.6	13.4	<10	<2
AA068463	Soil	0.06	2.2	1.9	<0.05	10.6	16.84	48.3	0.04	<1	0.6	11.2	<10	<2
AA068464	Soil	0.08	2.3	2.0	<0.05	9.5	12.01	37.0	<0.02	2	0.4	13.8	<10	<2
AA068465	Soil	0.05	2.1	0.5	<0.05	9.9	10.79	31.7	0.03	<1	0.4	13.9	<10	<2
AA068466	Soil	0.03	2.3	1.6	<0.05	14.6	10.88	37.5	0.02	2	0.3	9.2	<10	<2
AA068467	Soil	0.14	2.5	0.4	<0.05	2.2	7.98	20.7	0.02	2	0.3	5.4	<10	<2
AA068468	Soil	0.15	2.4	1.7	<0.05	4.4	11.91	28.6	0.03	<1	0.5	7.3	<10	<2
AA068469	Soil	0.15	2.8	1.8	<0.05	4.2	15.11	35.2	0.03	<1	0.5	7.3	<10	<2
AA068470	Soil	0.06	2.7	0.7	<0.05	6.2	16.86	46.1	0.04	<1	0.5	16.3	<10	3



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000181.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
AA070631	Soil	0.32	13.93	19.83	38.3	111	12.9	5.6	233	2.61	21.5	0.4	1.4	2.0	3.3	0.03	0.26	0.31	11	0.01	0.092
AA070632	Soil	0.48	48.16	78.52	78.6	108	43.6	31.2	1925	3.33	14.6	2.9	3.7	17.3	24.9	0.12	0.72	0.27	7	0.24	0.064
AA070633	Soil	0.48	54.43	40.69	81.1	143	40.6	26.9	513	3.58	17.2	2.0	3.2	20.5	26.7	0.09	1.32	0.35	9	0.53	0.047
AA070634	Soil	0.45	56.36	44.10	81.1	144	41.2	24.1	607	3.52	15.4	2.2	2.0	17.7	21.8	0.10	0.88	0.38	8	0.28	0.059
AA070635	Soil	0.41	29.62	34.87	60.1	149	21.9	9.7	325	2.65	10.8	2.1	2.4	4.8	29.3	0.13	0.76	0.24	10	0.55	0.074
AA070636	Soil	0.45	34.32	30.45	53.2	79	19.9	12.6	883	2.54	6.4	1.9	1.5	6.0	16.6	0.13	0.41	0.21	8	0.19	0.077
AA070637	Soil	0.86	20.56	58.85	59.6	106	16.9	20.2	1698	3.30	11.9	1.6	1.0	2.6	7.9	0.22	0.92	0.33	14	0.05	0.142
AA070638	Soil	0.39	12.00	19.10	20.7	44	11.5	6.5	510	2.36	4.0	0.7	0.5	5.5	6.2	0.04	0.46	0.09	8	0.06	0.073
AA070639	Soil	0.83	17.39	42.52	48.4	132	18.4	13.6	523	2.44	11.6	1.7	2.9	12.4	7.0	0.13	2.45	0.18	8	0.04	0.063
AA070640	Soil	0.78	40.27	41.04	94.2	149	42.3	17.9	415	4.37	17.3	2.3	1.7	12.1	67.7	0.13	1.38	0.34	9	1.33	0.076
AA070641	Soil	0.08	3.68	1.63	4.0	17	0.8	0.8	34	0.23	0.2	0.2	1.2	<0.1	20.3	0.05	<0.02	<0.02	5	0.27	0.032
AA070642	Soil	0.74	56.13	47.36	90.4	111	43.0	21.6	595	3.91	64.7	4.5	14.5	6.9	35.2	0.08	0.98	0.52	14	0.39	0.070
AA070643	Soil	0.27	10.19	7.22	19.5	25	6.5	3.3	181	1.09	3.3	0.3	<0.2	0.3	7.9	0.05	0.11	0.11	15	0.09	0.062
AA070644	Soil	2.23	55.15	39.61	90.8	116	45.3	20.6	776	3.89	82.1	1.5	17.4	6.9	11.3	0.25	1.35	0.59	11	0.25	0.064
AA070645	Soil	1.03	45.24	39.84	88.1	93	40.4	15.5	585	3.93	30.6	1.4	6.1	6.8	11.1	0.05	0.53	0.61	15	0.19	0.054
AA070646	Soil	0.48	90.31	48.87	88.0	121	37.5	16.6	1585	3.80	6.0	0.8	1.5	6.8	6.4	0.07	0.22	0.71	17	0.05	0.061
AA070647	Soil	0.46	27.41	23.68	60.2	45	27.0	12.7	1277	3.05	2.4	0.6	0.2	2.9	3.4	0.06	0.14	0.30	14	0.02	0.064
AA070648	Soil	0.12	5.18	2.34	7.7	15	2.2	1.2	90	0.42	0.2	0.2	<0.2	<0.1	5.9	0.04	0.03	0.04	7	0.05	0.029
AA070649	Soil	2.09	48.17	37.38	82.5	128	61.5	30.3	1685	3.73	46.0	1.0	7.1	7.5	16.7	0.29	1.39	0.38	10	0.52	0.084
AA070650	Soil	0.81	22.82	26.84	48.0	118	22.5	12.1	816	2.32	32.8	0.9	7.7	2.1	13.2	0.14	1.81	0.26	3	0.48	0.063
AA069951	Soil	0.55	49.88	41.82	110.7	95	50.5	15.7	615	5.29	53.2	2.5	3.8	11.3	10.9	0.07	0.79	0.55	18	0.08	0.054
AA069952	Soil	0.38	26.25	28.04	50.9	139	30.1	16.7	279	2.30	13.4	1.5	2.9	14.7	133.9	0.06	0.85	0.24	3	4.52	0.020
AA069953	Soil	0.73	63.86	62.98	131.5	267	65.2	29.0	532	5.61	48.9	2.5	5.6	13.4	91.8	0.15	3.38	0.79	5	1.99	0.063
AA069954	Soil	0.58	55.89	45.86	115.3	216	52.8	23.3	400	4.81	40.3	1.9	5.5	15.4	49.4	0.13	2.29	0.64	5	0.88	0.050
AA069955	Soil	0.66	28.92	30.79	70.6	73	28.2	14.5	600	3.65	18.4	2.7	0.9	1.9	15.7	0.17	0.68	0.45	18	0.18	0.084
AA069956	Soil	0.97	24.03	22.93	67.2	38	21.4	10.1	531	4.08	13.5	1.5	0.8	0.9	7.7	0.11	0.65	0.50	25	0.04	0.077
AA069957	Soil	0.50	47.10	34.92	97.5	155	43.5	19.6	492	4.55	41.6	2.8	3.1	15.8	19.0	0.14	0.75	0.47	14	0.21	0.052
AA069958	Soil	0.56	44.21	43.77	88.2	37	42.1	23.5	537	3.75	62.1	1.7	6.0	13.5	7.9	0.05	0.81	0.47	13	0.06	0.047
AA069959	Soil	0.47	48.63	36.11	91.6	63	39.2	25.5	740	3.84	67.6	1.9	8.1	9.0	7.1	0.07	0.61	0.46	14	0.04	0.076
AA069960	Soil	0.56	44.41	34.28	99.2	38	42.3	19.6	619	4.72	52.9	1.8	2.6	7.4	9.9	0.08	0.85	0.55	17	0.08	0.070



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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
AA070631	Soil	11.9	14.3	0.29	33.3	0.002	1	0.99	0.005	0.06	<0.1	0.5	0.03	0.04	53	<0.1	0.04	3.8	0.47	<0.1	<0.02
AA070632	Soil	13.0	11.7	0.57	32.6	<0.001	<1	1.51	0.003	0.04	<0.1	1.6	0.03	0.02	27	<0.1	0.03	2.8	0.68	<0.1	0.05
AA070633	Soil	11.3	18.5	0.59	22.2	<0.001	<1	1.39	0.002	0.03	<0.1	1.9	0.04	0.05	20	<0.1	0.05	3.6	0.74	<0.1	0.20
AA070634	Soil	15.3	15.6	0.56	26.4	0.001	<1	1.40	0.003	0.03	<0.1	2.0	0.04	0.03	29	<0.1	0.05	3.3	0.57	<0.1	0.14
AA070635	Soil	16.6	9.1	0.27	38.7	0.008	1	1.07	0.022	0.03	<0.1	2.6	0.04	0.05	30	0.4	0.04	2.3	0.43	<0.1	0.09
AA070636	Soil	12.2	8.5	0.25	38.6	0.006	<1	0.85	0.026	0.04	<0.1	2.1	0.03	0.03	44	<0.1	<0.02	1.9	0.38	<0.1	0.03
AA070637	Soil	10.9	9.9	0.19	62.4	0.005	1	1.13	0.010	0.05	0.1	1.3	0.08	0.10	80	0.3	0.04	3.1	0.80	<0.1	0.04
AA070638	Soil	8.5	6.0	0.07	11.1	0.008	<1	0.36	0.014	0.02	<0.1	1.8	0.03	0.02	32	0.1	<0.02	0.9	0.27	<0.1	<0.02
AA070639	Soil	9.4	10.5	0.09	21.9	0.006	1	0.50	0.007	0.04	<0.1	2.2	0.05	0.07	73	0.3	0.03	1.3	0.57	<0.1	0.04
AA070640	Soil	19.1	10.4	0.26	52.4	0.003	<1	1.01	0.010	0.04	<0.1	3.5	0.04	0.07	43	0.3	0.06	1.9	0.52	<0.1	0.13
AA070641	Soil	2.0	0.8	0.02	30.3	0.015	<1	0.57	0.049	0.02	<0.1	0.6	<0.02	0.03	10	<0.1	<0.02	1.2	0.06	<0.1	<0.02
AA070642	Soil	16.2	25.0	0.72	64.5	0.003	<1	1.78	0.009	0.06	<0.1	3.7	0.04	0.04	24	0.3	0.10	4.3	1.59	<0.1	0.10
AA070643	Soil	5.0	6.7	0.17	16.2	0.017	3	0.69	0.024	0.02	<0.1	0.6	0.02	0.03	23	<0.1	<0.02	2.7	0.33	<0.1	<0.02
AA070644	Soil	19.7	19.5	0.77	30.3	0.003	3	1.54	0.005	0.04	<0.1	3.7	0.04	0.04	38	<0.1	0.08	3.8	0.68	<0.1	0.12
AA070645	Soil	14.8	29.6	1.07	36.5	0.003	3	2.15	0.005	0.04	<0.1	2.7	0.03	0.03	30	<0.1	0.08	5.6	1.00	<0.1	0.13
AA070646	Soil	16.3	31.5	1.32	22.9	0.007	3	2.27	0.009	0.05	0.1	2.7	0.04	0.02	52	<0.1	0.06	6.2	1.19	<0.1	0.04
AA070647	Soil	11.1	22.2	0.86	18.3	0.007	2	1.73	0.009	0.03	<0.1	1.3	0.04	0.04	39	<0.1	0.03	5.0	0.56	<0.1	0.07
AA070648	Soil	2.0	2.4	0.07	15.0	0.013	1	0.45	0.030	0.02	<0.1	0.3	<0.02	0.02	19	<0.1	<0.02	1.5	0.14	<0.1	<0.02
AA070649	Soil	22.8	24.0	0.59	36.3	0.001	2	1.01	0.003	0.03	<0.1	6.0	0.04	<0.02	23	<0.1	0.07	2.1	0.54	<0.1	0.09
AA070650	Soil	18.1	4.2	0.07	28.8	0.001	2	0.43	0.003	0.02	<0.1	2.5	0.03	0.04	38	<0.1	0.06	0.8	0.38	<0.1	0.07
AA069951	Soil	13.0	41.4	1.08	17.5	0.001	1	2.76	0.005	0.04	<0.1	2.4	0.02	<0.02	16	<0.1	0.07	8.2	1.98	<0.1	0.09
AA069952	Soil	12.4	7.6	0.36	29.9	<0.001	1	0.92	0.003	0.04	<0.1	1.6	0.02	<0.02	21	<0.1	0.03	1.5	0.64	<0.1	0.11
AA069953	Soil	13.2	7.9	0.23	26.3	0.002	1	0.68	0.004	0.03	<0.1	3.5	0.04	0.03	57	0.2	0.17	1.5	0.43	<0.1	0.08
AA069954	Soil	15.4	6.9	0.19	27.5	0.002	1	0.63	0.004	0.03	<0.1	3.3	0.03	0.02	46	0.1	0.18	1.4	0.35	<0.1	0.12
AA069955	Soil	16.3	18.3	0.37	49.3	0.009	2	1.54	0.007	0.04	0.1	1.2	0.06	0.05	22	0.2	0.04	4.3	0.87	<0.1	<0.02
AA069956	Soil	13.9	22.5	0.31	46.1	0.010	1	1.47	0.005	0.04	0.1	0.6	0.09	0.07	29	0.3	0.04	6.1	0.94	<0.1	<0.02
AA069957	Soil	16.6	26.1	0.76	32.3	0.004	<1	1.87	0.002	0.03	<0.1	2.7	0.04	<0.02	26	<0.1	0.07	4.8	0.47	<0.1	0.05
AA069958	Soil	18.4	23.6	0.72	27.9	0.003	<1	1.99	0.002	0.03	<0.1	1.4	0.03	<0.02	16	<0.1	0.02	4.8	0.66	<0.1	0.08
AA069959	Soil	15.4	23.7	0.69	27.9	0.004	<1	1.99	0.005	0.03	<0.1	1.3	0.04	<0.02	10	<0.1	0.04	4.9	0.80	<0.1	0.08
AA069960	Soil	12.8	31.6	0.86	33.5	0.004	<1	2.30	0.002	0.02	<0.1	1.2	0.04	0.03	14	<0.1	0.04	6.0	0.73	<0.1	0.09



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Client: **Golden Predator Mining Corp.**

510 - 580 Hornby Street

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Project: None Given

Report Date: September 08, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000181.1

Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
AA070631	Soil	0.13	5.0	1.2	<0.05	0.5	0.80	21.2	<0.02	1	0.1	22.8	<10	2
AA070632	Soil	<0.02	2.2	0.6	<0.05	3.8	6.32	27.1	<0.02	<1	0.5	27.4	<10	<2
AA070633	Soil	<0.02	1.7	1.5	<0.05	11.1	6.21	22.6	<0.02	<1	0.4	41.2	<10	<2
AA070634	Soil	0.02	1.9	0.7	<0.05	8.2	7.37	30.5	0.02	<1	0.5	36.3	<10	<2
AA070635	Soil	0.31	3.1	1.0	<0.05	3.5	11.05	32.4	0.02	1	0.6	16.7	<10	<2
AA070636	Soil	0.15	3.8	1.5	<0.05	1.2	10.28	27.4	<0.02	<1	0.4	16.4	<10	3
AA070637	Soil	0.22	7.8	2.1	<0.05	0.9	4.39	22.0	0.03	1	0.4	10.4	<10	<2
AA070638	Soil	0.10	2.2	2.4	<0.05	0.8	6.53	18.0	<0.02	<1	0.2	1.7	<10	<2
AA070639	Soil	0.18	4.8	7.3	<0.05	0.4	6.95	19.1	0.03	<1	0.2	3.1	<10	3
AA070640	Soil	0.19	3.9	2.9	<0.05	9.1	10.56	35.3	0.05	1	0.7	15.6	<10	<2
AA070641	Soil	0.35	0.8	0.2	<0.05	1.0	0.72	4.2	<0.02	<1	<0.1	0.6	<10	<2
AA070642	Soil	0.19	5.3	2.2	<0.05	4.0	7.08	31.3	0.02	1	0.6	50.7	<10	<2
AA070643	Soil	0.18	1.9	0.8	<0.05	0.5	1.18	9.3	<0.02	<1	0.1	9.7	<10	<2
AA070644	Soil	0.09	2.8	1.3	<0.05	5.7	12.01	33.0	0.03	<1	0.5	48.0	<10	<2
AA070645	Soil	0.16	3.7	2.7	<0.05	5.2	6.96	24.8	0.03	<1	0.5	73.2	<10	<2
AA070646	Soil	0.14	4.5	2.0	<0.05	1.8	5.70	30.0	0.03	<1	0.4	81.0	<10	<2
AA070647	Soil	0.17	3.6	3.1	<0.05	2.6	1.92	20.3	0.02	<1	0.3	52.1	<10	<2
AA070648	Soil	0.12	1.0	0.4	<0.05	0.4	0.94	3.8	<0.02	<1	<0.1	3.8	<10	<2
AA070649	Soil	0.05	2.0	1.4	<0.05	5.4	16.02	42.2	0.04	<1	0.4	24.5	<10	<2
AA070650	Soil	0.07	2.6	1.7	<0.05	2.5	11.67	38.9	0.03	<1	0.4	2.0	<10	<2
AA069951	Soil	0.05	2.6	0.6	<0.05	5.0	2.57	24.5	0.03	<1	0.3	86.4	<10	<2
AA069952	Soil	0.04	2.0	1.3	<0.05	6.9	5.87	23.2	<0.02	<1	0.4	14.1	<10	<2
AA069953	Soil	0.08	1.9	0.8	<0.05	5.1	11.42	23.2	0.04	<1	0.5	13.3	<10	<2
AA069954	Soil	0.08	1.8	0.6	<0.05	8.0	10.95	25.3	0.03	<1	0.4	12.1	<10	<2
AA069955	Soil	0.31	6.0	0.6	<0.05	0.6	7.88	34.6	0.03	<1	0.5	28.8	<10	<2
AA069956	Soil	0.52	6.4	1.7	<0.05	0.5	2.79	26.6	0.03	<1	0.2	21.8	<10	<2
AA069957	Soil	0.10	2.3	0.7	<0.05	4.1	8.44	28.6	0.02	<1	0.5	59.1	<10	<2
AA069958	Soil	0.16	2.9	1.7	<0.05	3.0	3.16	34.2	0.02	<1	0.4	56.1	<10	<2
AA069959	Soil	0.14	4.1	0.4	<0.05	3.0	3.15	29.3	0.02	<1	0.5	51.9	<10	<2
AA069960	Soil	0.19	3.1	0.5	<0.05	3.4	2.70	23.7	<0.02	<1	0.5	72.2	<10	<2



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Project: None Given  
Report Date: September 08, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000181.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
AA070581	Soil	0.87	52.95	78.48	106.1	57	43.2	37.6	1227	4.31	17.8	2.1	0.8	17.3	7.5	0.05	0.73	0.64	14	0.04	0.022
AA070582	Soil	0.53	46.47	47.22	105.1	27	42.6	23.6	543	4.19	15.9	1.0	0.8	11.7	5.7	0.07	0.44	0.61	19	0.03	0.044
AA070583	Soil	0.37	29.42	23.36	91.9	22	38.2	13.1	401	4.05	15.4	1.0	1.2	11.0	6.7	0.04	0.37	0.52	15	0.02	0.042
AA070584	Soil	0.44	25.19	20.50	56.7	47	24.8	10.2	268	2.92	7.9	1.3	0.9	5.5	6.7	0.02	0.27	0.40	12	0.03	0.050
AA070585	Soil	0.38	34.29	29.31	78.3	93	30.0	10.5	314	3.73	11.9	1.0	1.1	7.4	5.1	0.08	0.41	0.49	12	0.02	0.075
AA070586	Soil	0.42	39.19	33.88	101.7	108	38.1	15.0	349	3.93	17.4	4.7	1.6	12.7	35.9	0.07	0.49	0.55	12	0.30	0.054
AA070587	Soil	0.42	17.43	18.88	79.1	41	22.3	7.2	235	2.87	11.8	6.0	0.5	4.8	7.3	0.05	0.25	0.43	13	0.03	0.076
AA070588	Soil	0.62	17.03	20.97	45.0	140	13.0	6.5	318	3.21	19.3	0.6	0.5	1.2	4.3	0.12	0.36	0.54	18	0.01	0.083
AA070589	Soil	0.19	14.43	14.15	40.6	49	14.9	5.7	171	2.14	10.4	0.5	0.7	1.8	3.3	0.04	0.22	0.29	9	<0.01	0.057
AA070590	Soil	0.32	26.50	20.63	80.2	140	31.8	11.8	391	4.15	22.5	0.7	0.4	7.7	2.9	0.13	0.45	0.52	14	<0.01	0.054



**BUREAU VERITAS** MINERAL LABORATORIES  
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**Project:** None Given  
**Report Date:** September 08, 2016

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**Part:** 2 of 3

# CERTIFICATE OF ANALYSIS

WHI16000181.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
AA070581	Soil	23.8	26.7	0.82	50.8	0.001	<1	2.09	0.002	0.04	<0.1	1.7	0.05	<0.02	17	<0.1	0.05	5.7	0.97	<0.1	0.09
AA070582	Soil	18.1	32.9	0.88	32.9	0.005	<1	2.38	0.003	0.04	<0.1	1.8	0.05	<0.02	15	<0.1	0.04	6.5	0.81	<0.1	0.11
AA070583	Soil	18.7	28.9	0.79	33.1	0.002	<1	2.16	0.003	0.05	<0.1	1.4	0.05	<0.02	15	0.1	0.05	5.9	0.65	<0.1	0.08
AA070584	Soil	13.9	19.7	0.52	43.6	0.003	<1	1.71	0.007	0.05	<0.1	0.9	0.05	0.03	15	<0.1	0.03	4.7	0.64	<0.1	0.07
AA070585	Soil	14.2	22.8	0.59	32.6	0.002	<1	1.74	0.004	0.05	<0.1	1.1	0.04	0.03	28	<0.1	0.05	4.6	0.50	<0.1	0.07
AA070586	Soil	16.5	27.2	0.76	40.9	0.002	<1	1.96	0.003	0.07	<0.1	2.2	0.03	0.03	18	0.2	0.03	5.1	0.53	<0.1	0.12
AA070587	Soil	17.0	21.8	0.47	55.2	0.004	<1	1.67	0.005	0.06	<0.1	1.0	0.05	0.03	16	0.2	<0.02	5.4	0.98	<0.1	0.06
AA070588	Soil	15.4	14.8	0.25	34.2	0.004	<1	1.05	0.004	0.05	<0.1	0.4	0.04	0.03	26	0.1	0.05	5.7	0.69	<0.1	<0.02
AA070589	Soil	16.2	13.9	0.31	28.4	0.002	<1	1.09	0.007	0.05	<0.1	0.4	0.04	<0.02	15	<0.1	<0.02	3.9	0.42	<0.1	0.03
AA070590	Soil	16.7	26.1	0.71	27.6	0.002	<1	1.89	0.003	0.05	<0.1	1.1	0.03	0.02	20	0.1	0.03	5.4	0.49	<0.1	0.08



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**Project:** None Given  
**Report Date:** September 08, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000181.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		MDL	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
AA070581	Soil	0.03	3.8	0.3	<0.05	5.3	5.56	42.2	0.03	<1	0.8	73.9	<10	<2
AA070582	Soil	0.22	4.4	0.8	<0.05	4.0	2.83	31.5	<0.02	<1	0.3	82.7	<10	<2
AA070583	Soil	0.15	4.6	0.3	<0.05	3.0	2.19	33.5	<0.02	<1	0.3	68.6	<10	<2
AA070584	Soil	0.18	5.2	0.6	<0.05	2.3	1.86	24.7	<0.02	<1	0.2	44.4	<10	<2
AA070585	Soil	0.12	4.9	1.0	<0.05	2.9	1.94	26.4	0.02	<1	0.4	52.9	<10	<2
AA070586	Soil	0.06	3.8	1.6	<0.05	4.8	6.79	28.6	<0.02	<1	0.3	66.5	<10	<2
AA070587	Soil	0.20	7.1	0.5	<0.05	2.3	3.18	31.5	<0.02	<1	0.3	43.5	<10	<2
AA070588	Soil	0.19	7.1	0.5	<0.05	0.5	1.18	26.3	0.02	<1	0.1	19.8	<10	<2
AA070589	Soil	0.12	4.8	0.3	<0.05	1.0	1.10	29.1	<0.02	<1	0.2	25.4	<10	<2
AA070590	Soil	0.12	4.8	0.4	<0.05	2.4	1.37	28.8	<0.02	<1	0.3	55.3	<10	<2



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Project: None Given  
Report Date: September 08, 2016

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# QUALITY CONTROL REPORT

WHI16000181.1

Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
AA069548	Soil	1.89	41.23	25.31	103.0	92	47.3	20.3	984	4.36	43.2	1.4	14.3	6.8	7.9	0.08	0.42	0.39	16	0.09	0.039
REP AA069548	QC	1.73	39.97	24.76	101.1	87	45.9	19.8	930	4.22	41.2	1.4	16.4	6.3	7.4	0.04	0.40	0.37	15	0.09	0.039
AA069634	Soil	0.64	28.94	44.20	78.7	272	58.2	27.2	855	4.12	146.7	1.6	56.1	13.4	30.5	0.11	6.41	0.37	10	0.31	0.049
REP AA069634	QC	0.66	30.01	44.57	79.9	289	58.2	27.9	855	4.15	151.2	1.6	50.8	14.4	31.9	0.10	6.52	0.38	10	0.32	0.052
AA068500	Soil	0.75	14.68	26.59	58.4	34	20.4	10.6	404	3.09	59.4	0.7	7.9	2.8	4.2	0.05	0.60	0.37	22	0.01	0.050
REP AA068500	QC	0.70	14.53	25.68	57.9	31	19.2	10.4	389	3.05	58.3	0.7	4.7	2.5	4.3	0.07	0.57	0.37	21	0.01	0.049
AA069666	Soil	0.59	45.13	88.48	104.2	204	37.3	39.9	1570	3.33	241.5	2.2	37.8	16.6	10.1	0.24	1.32	0.33	9	0.16	0.033
REP AA069666	QC	0.54	45.00	89.00	100.6	214	36.4	39.5	1532	3.17	236.7	2.2	36.3	16.2	10.0	0.25	1.32	0.31	9	0.15	0.033
AA070733	Soil	2.01	56.26	27.66	88.8	96	46.7	16.7	458	4.04	49.7	1.0	11.0	8.1	8.5	0.06	1.38	0.59	12	0.15	0.049
REP AA070733	QC	1.89	55.09	27.37	88.8	96	46.0	16.7	458	4.04	50.5	1.0	11.2	8.8	8.5	0.06	1.53	0.59	12	0.15	0.050
AA069968	Soil	0.24	19.89	13.11	46.0	59	19.6	6.2	249	2.18	4.9	0.8	0.8	4.0	4.6	0.03	0.26	0.26	10	0.03	0.049
REP AA069968	QC	0.19	18.63	12.35	44.1	57	17.5	5.9	232	2.05	4.7	0.7	0.7	3.7	4.4	0.04	0.26	0.25	10	0.03	0.047
AA070634	Soil	0.45	56.36	44.10	81.1	144	41.2	24.1	607	3.52	15.4	2.2	2.0	17.7	21.8	0.10	0.88	0.38	8	0.28	0.059
REP AA070634	QC	0.45	52.72	40.52	73.7	148	39.5	24.0	594	3.50	14.5	2.1	2.1	16.7	21.8	0.09	0.84	0.36	8	0.28	0.059
AA070590	Soil	0.32	26.50	20.63	80.2	140	31.8	11.8	391	4.15	22.5	0.7	0.4	7.7	2.9	0.13	0.45	0.52	14	<0.01	0.054
REP AA070590	QC	0.33	27.41	20.42	83.3	142	31.4	12.0	409	4.17	22.4	0.7	0.8	7.9	2.9	0.12	0.47	0.53	14	<0.01	0.055
Reference Materials																					
STD DS10	Standard	14.94	162.27	149.67	365.0	1955	75.1	13.7	907	2.78	48.3	3.0	118.3	8.3	71.0	2.88	9.91	13.33	45	1.08	0.077
STD DS10	Standard	15.34	156.95	156.99	372.4	1876	76.9	13.0	929	2.86	46.7	2.8	91.6	7.7	69.5	2.69	8.18	11.98	46	1.10	0.075
STD DS10	Standard	14.61	160.42	153.14	379.6	1967	75.9	13.2	861	2.81	45.7	3.0	73.7	8.4	68.7	2.91	10.07	12.84	42	1.07	0.077
STD DS10	Standard	15.40	160.45	149.90	372.6	1734	79.1	13.7	950	2.79	43.3	2.6	89.4	7.5	64.9	2.32	8.76	12.56	44	1.05	0.070
STD DS10	Standard	15.51	155.85	153.94	381.8	1822	78.3	12.8	886	2.81	44.2	2.7	78.7	7.5	66.4	2.63	9.11	12.62	43	1.06	0.074
STD DS10	Standard	14.98	153.75	152.54	362.1	1715	76.1	12.4	834	2.65	43.1	2.7	70.4	7.4	63.7	2.40	9.22	12.40	42	1.04	0.071
STD DS10	Standard	14.42	157.13	156.13	359.8	1824	76.3	13.3	884	2.76	45.6	2.9	72.3	8.2	69.0	2.68	9.42	13.13	43	1.06	0.076
STD DS10	Standard	15.44	162.21	152.12	370.1	1823	79.4	13.7	917	2.81	46.2	3.0	80.4	8.6	73.1	2.69	8.78	13.22	43	1.08	0.077
STD OXC129	Standard	1.22	27.49	6.57	40.1	17	76.8	19.5	397	2.86	0.7	0.7	186.4	2.0	177.5	0.04	0.04	<0.02	50	0.62	0.097
STD OXC129	Standard	1.31	29.23	6.64	42.0	27	82.3	21.1	397	3.08	0.4	0.7	195.0	1.8	195.4	0.04	<0.02	<0.02	55	0.69	0.099
STD OXC129	Standard	1.23	27.92	6.76	41.3	19	74.9	20.8	400	2.96	0.5	0.7	195.9	2.0	159.4	0.03	0.04	<0.02	48	0.59	0.098



# QUALITY CONTROL REPORT

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Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251		
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf		
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm		
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02		
Pulp Duplicates																						
AA069548	Soil	24.4	31.7	1.05	26.4	<0.001	<1	2.34	0.003	0.04	<0.1	2.6	0.04	<0.02	<5	0.2	0.07	6.4	1.30	<0.1	0.10	
REP AA069548	QC	22.1	31.2	1.01	24.8	<0.001	<1	2.23	0.003	0.04	<0.1	2.4	0.03	<0.02	7	0.4	0.06	5.9	1.24	<0.1	0.12	
AA069634	Soil	31.1	15.2	0.20	44.3	0.001	<1	0.96	0.008	0.04	<0.1	9.3	0.04	0.02	28	<0.1	<0.02	1.7	0.90	<0.1	0.10	
REP AA069634	QC	33.6	15.4	0.21	47.2	0.002	<1	1.00	0.009	0.04	<0.1	9.4	0.04	0.02	26	<0.1	<0.02	1.8	0.95	<0.1	0.08	
AA068500	Soil	17.1	18.4	0.31	34.7	0.007	<1	1.37	0.002	0.04	0.1	0.8	0.07	0.04	21	0.3	0.06	4.6	1.03	<0.1	<0.02	
REP AA068500	QC	18.0	17.4	0.31	35.1	0.007	1	1.36	0.002	0.04	<0.1	0.8	0.08	0.04	16	0.1	0.05	4.4	1.08	<0.1	<0.02	
AA069666	Soil	26.1	20.7	0.73	33.2	<0.001	<1	1.75	0.003	0.03	<0.1	2.0	0.05	<0.02	19	<0.1	0.05	4.3	2.22	<0.1	0.04	
REP AA069666	QC	24.3	19.0	0.68	33.6	<0.001	<1	1.64	0.003	0.03	<0.1	1.9	0.06	<0.02	20	0.2	0.03	3.9	2.13	<0.1	0.04	
AA070733	Soil	19.8	26.1	0.90	24.1	0.001	<1	1.78	0.002	0.02	<0.1	3.1	0.03	<0.02	17	<0.1	0.10	4.6	0.75	<0.1	0.13	
REP AA070733	QC	23.0	26.4	0.92	23.8	0.002	<1	1.74	0.002	0.02	<0.1	3.4	0.04	<0.02	15	<0.1	0.10	4.6	0.77	<0.1	0.14	
AA069968	Soil	10.5	13.7	0.38	29.9	0.004	<1	1.32	0.012	0.03	<0.1	0.8	0.03	<0.02	13	<0.1	<0.02	3.4	0.43	<0.1	0.06	
REP AA069968	QC	9.8	12.9	0.35	28.8	0.004	<1	1.26	0.012	0.03	<0.1	0.8	0.03	<0.02	13	<0.1	<0.02	3.2	0.42	<0.1	0.06	
AA070634	Soil	15.3	15.6	0.56	26.4	0.001	<1	1.40	0.003	0.03	<0.1	2.0	0.04	0.03	29	<0.1	0.05	3.3	0.57	<0.1	0.14	
REP AA070634	QC	14.0	15.3	0.56	25.6	<0.001	<1	1.40	0.003	0.03	<0.1	2.0	0.04	0.03	25	<0.1	0.03	2.9	0.54	<0.1	0.14	
AA070590	Soil	16.7	26.1	0.71	27.6	0.002	<1	1.89	0.003	0.05	<0.1	1.1	0.03	0.02	20	0.1	0.03	5.4	0.49	<0.1	0.08	
REP AA070590	QC	15.9	26.8	0.71	27.5	0.002	<1	1.88	0.003	0.05	<0.1	1.1	0.04	0.02	23	0.1	0.04	5.5	0.49	<0.1	0.06	
Reference Materials																						
STD DS10	Standard	20.2	57.3	0.78	359.0	0.088	8	1.06	0.072	0.33	3.3	3.1	5.11	0.29	276	2.2	5.01	4.6	2.78	<0.1	0.06	
STD DS10	Standard	18.5	56.4	0.80	338.9	0.079	7	1.10	0.080	0.35	3.2	3.0	5.16	0.29	275	2.0	4.95	4.6	2.73	0.1	0.06	
STD DS10	Standard	18.7	54.5	0.77	341.4	0.081	7	1.02	0.071	0.33	3.4	2.9	5.11	0.28	289	2.1	5.10	4.4	2.74	<0.1	0.05	
STD DS10	Standard	18.0	58.8	0.80	353.8	0.084	7	1.06	0.074	0.34	3.2	2.8	5.02	0.28	280	2.0	4.99	4.3	2.64	<0.1	0.05	
STD DS10	Standard	18.3	57.2	0.80	348.5	0.083	7	1.06	0.075	0.34	3.4	2.9	5.39	0.29	288	2.1	5.02	4.4	2.73	<0.1	0.03	
STD DS10	Standard	17.0	52.7	0.76	351.5	0.076	5	1.01	0.069	0.32	3.4	2.7	5.08	0.28	279	2.0	4.88	4.2	2.67	<0.1	0.04	
STD DS10	Standard	18.4	56.0	0.78	334.3	0.084	7	1.04	0.075	0.34	3.4	3.0	5.16	0.28	287	1.9	4.77	4.0	2.60	0.1	0.05	
STD DS10	Standard	20.6	58.2	0.79	334.0	0.087	7	1.08	0.076	0.34	3.2	3.1	5.01	0.28	301	2.2	4.75	4.3	2.58	<0.1	0.06	
STD OXC129	Standard	13.3	50.3	1.47	48.7	0.382	<1	1.45	0.562	0.34	<0.1	0.7	0.03	<0.02	<5	<0.1	<0.02	5.3	0.15	<0.1	0.25	
STD OXC129	Standard	12.5	51.4	1.55	50.8	0.387	<1	1.64	0.612	0.38	<0.1	1.1	0.03	<0.02	<5	<0.1	<0.02	5.8	0.15	<0.1	0.25	
STD OXC129	Standard	13.4	46.5	1.47	47.7	0.359	2	1.43	0.570	0.35	<0.1	0.8	0.03	<0.02	<5	<0.1	0.02	5.2	0.16	<0.1	0.27	



# QUALITY CONTROL REPORT

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Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
MDL		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates														
AA069548	Soil	<0.02	3.1	0.7	<0.05	4.1	4.79	43.2	<0.02	<1	0.6	80.1	<10	<2
REP AA069548	QC	<0.02	3.0	0.7	<0.05	4.1	4.43	39.2	<0.02	<1	<0.1	80.2	<10	<2
AA069634	Soil	0.07	3.1	3.2	<0.05	4.2	21.36	54.9	0.06	<1	1.2	8.9	<10	<2
REP AA069634	QC	0.07	3.3	3.1	<0.05	4.1	22.61	58.6	0.07	<1	1.0	10.1	<10	<2
AA068500	Soil	0.43	5.6	0.5	<0.05	0.4	2.02	34.7	<0.02	<1	0.2	21.8	<10	<2
REP AA068500	QC	0.40	6.0	0.5	<0.05	0.3	2.01	35.8	<0.02	<1	0.3	21.3	<10	<2
AA069666	Soil	<0.02	2.9	0.3	<0.05	4.5	5.24	50.3	<0.02	<1	0.6	52.8	<10	<2
REP AA069666	QC	<0.02	2.9	0.3	<0.05	4.3	5.15	46.0	<0.02	<1	0.3	48.5	<10	<2
AA070733	Soil	0.04	2.6	0.1	<0.05	5.4	7.48	36.1	0.02	<1	0.5	63.6	<10	<2
REP AA070733	QC	0.04	2.7	0.1	<0.05	5.6	7.49	39.4	0.03	<1	0.3	62.7	<10	<2
AA069968	Soil	0.12	4.0	0.2	<0.05	2.4	2.06	19.5	<0.02	<1	0.2	33.7	<10	<2
REP AA069968	QC	0.11	3.8	0.2	<0.05	2.2	1.95	18.4	<0.02	<1	0.2	31.7	<10	<2
AA070634	Soil	0.02	1.9	0.7	<0.05	8.2	7.37	30.5	0.02	<1	0.5	36.3	<10	<2
REP AA070634	QC	<0.02	1.9	0.5	<0.05	7.3	7.11	27.8	<0.02	<1	0.5	35.4	<10	<2
AA070590	Soil	0.12	4.8	0.4	<0.05	2.4	1.37	28.8	<0.02	<1	0.3	55.3	<10	<2
REP AA070590	QC	0.13	4.7	0.3	<0.05	2.4	1.39	28.2	<0.02	<1	0.2	58.2	<10	<2
Reference Materials														
STD DS10	Standard	1.69	29.7	1.6	<0.05	2.7	8.83	38.2	0.23	42	0.6	21.3	96	189
STD DS10	Standard	1.58	30.2	1.6	<0.05	2.8	8.12	36.3	0.25	44	0.6	19.1	102	187
STD DS10	Standard	1.47	29.7	1.7	<0.05	2.4	8.24	35.3	0.25	49	0.5	20.0	95	182
STD DS10	Standard	1.50	27.8	1.4	<0.05	2.5	8.14	36.5	0.24	44	0.6	19.6	110	191
STD DS10	Standard	1.47	28.8	1.6	<0.05	2.4	8.20	36.5	0.23	46	0.4	19.9	108	190
STD DS10	Standard	1.40	27.1	1.6	<0.05	2.2	7.35	34.4	0.21	52	0.7	20.4	96	187
STD DS10	Standard	1.54	28.4	1.8	<0.05	2.6	7.91	35.2	0.21	44	0.6	20.3	103	191
STD DS10	Standard	1.52	28.4	1.7	<0.05	2.7	8.33	38.4	0.26	49	0.7	19.7	102	188
STD OXC129	Standard	1.33	15.0	0.7	<0.05	20.9	4.74	22.2	<0.02	<1	0.7	2.1	<10	<2
STD OXC129	Standard	1.08	15.7	0.7	<0.05	21.3	4.49	22.8	<0.02	1	0.7	2.3	<10	3
STD OXC129	Standard	1.50	15.1	0.7	<0.05	20.7	4.74	23.3	<0.02	<1	0.8	2.1	<10	<2



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**Project:** None Given  
**Report Date:** September 08, 2016

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		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
STD OXC129	Standard	1.37	28.81	6.56	41.9	16	84.3	21.8	433	3.13	0.7	0.7	199.4	1.9	190.3	0.01	0.03	<0.02	54	0.67	0.103
STD OXC129	Standard	1.25	26.38	6.56	35.5	18	77.5	20.0	390	2.93	0.3	0.7	207.5	1.8	172.1	0.03	0.03	<0.02	49	0.60	0.094
STD OXC129	Standard	1.22	27.08	6.13	37.8	40	75.9	20.1	389	2.90	0.9	0.7	191.1	1.7	169.8	0.03	0.04	<0.02	47	0.60	0.096
STD OXC129	Standard	1.29	28.38	6.77	41.1	16	81.0	20.7	419	2.92	0.4	0.7	186.8	2.0	172.4	0.04	0.03	<0.02	48	0.60	0.098
STD OXC129	Standard	1.30	30.59	7.07	43.7	18	86.3	21.4	425	3.06	0.6	0.8	191.5	2.1	189.3	0.03	0.04	<0.02	51	0.68	0.101
STD DS10 Expected		15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	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	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665	0.102
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	4	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	3	<0.1	<0.1	<1	<0.01	0.3	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
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**Client:** Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

Project: None Given  
Report Date: September 08, 2016

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Part: 2 of 3

# QUALITY CONTROL REPORT

WHI16000181.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
STD OXC129	Standard	12.9	55.0	1.55	49.7	0.421	1	1.63	0.618	0.41	<0.1	1.1	0.03	<0.02	<5	<0.1	<0.02	6.0	0.15	<0.1	0.21
STD OXC129	Standard	12.2	48.3	1.46	47.0	0.378	2	1.53	0.593	0.39	<0.1	0.6	0.03	<0.02	<5	<0.1	<0.02	5.1	0.15	<0.1	0.26
STD OXC129	Standard	12.2	46.1	1.45	45.5	0.355	<1	1.43	0.569	0.36	<0.1	0.8	0.03	<0.02	<5	<0.1	<0.02	4.9	0.16	<0.1	0.23
STD OXC129	Standard	13.6	50.0	1.47	46.7	0.369	<1	1.48	0.591	0.38	<0.1	0.9	0.03	<0.02	<5	<0.1	<0.02	5.4	0.15	<0.1	0.21
STD OXC129	Standard	14.1	56.1	1.52	50.5	0.401	1	1.62	0.610	0.39	<0.1	0.9	0.03	<0.02	<5	<0.1	<0.02	5.7	0.16	<0.1	0.30
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0259	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	2.63	0.08	0.06
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6	0.16		0.24
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



# QUALITY CONTROL REPORT

WHI16000181.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
STD OXC129	Standard	1.44	15.7	0.7	<0.05	18.7	4.86	23.5	<0.02	<1	0.6	2.1	<10	<2
STD OXC129	Standard	1.38	13.9	0.8	<0.05	16.5	4.45	22.0	<0.02	<1	0.4	2.2	13	<2
STD OXC129	Standard	1.53	14.3	0.7	<0.05	18.6	4.23	21.9	<0.02	<1	0.8	1.7	<10	<2
STD OXC129	Standard	1.54	14.7	0.7	<0.05	18.5	4.60	23.0	<0.02	<1	0.9	2.0	<10	<2
STD OXC129	Standard	1.24	15.7	0.7	<0.05	22.8	4.97	24.3	<0.02	<1	0.9	2.3	<10	<2
STD DS10 Expected		1.62	27.7	1.6		2.7	7.77	37	0.23	50	0.63	19.4	110	191
STD OXC129 Expected		1.4		0.7		21	4.7	23.7			0.8	2.22		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

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PHONE (604) 253-3158

**Client:** **Golden Predator Mining Corp.**  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

Submitted By: M. Burke  
Receiving Lab: Canada-Whitehorse  
Received: August 31, 2016  
Report Date: September 17, 2016  
Page: 1 of 12

## CERTIFICATE OF ANALYSIS

WHI16000233.1

### CLIENT JOB INFORMATION

Project: NA-16176  
Shipment ID:  
P.O. Number  
Number of Samples: 318

### 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: Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6  
Canada

CC: M. Burke

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	318	Dry at 60C			WHI
SS80	318	Dry at 60C sieve 100g to -80 mesh			WHI
AQ251_EXT	315	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
SHP01	318	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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**Client:** Golden Predator Mining Corp.  
510 - 580 Hornby Street  
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**Project:** NA-16176  
**Report Date:** September 17, 2016

**Page:** 2 of 12

**Part:** 1 of 3

# CERTIFICATE OF ANALYSIS

# WHI16000233.1

Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
MDL		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
069701	Soil	0.37	43.14	35.73	90.6	150	37.5	18.0	455	3.60	68.8	1.1	13.8	16.8	13.6	0.07	2.66	0.51	5	0.12	0.052
069702	Soil	0.35	30.08	27.79	72.6	147	34.7	16.4	320	3.50	109.9	1.3	21.7	15.9	15.4	0.08	2.75	0.48	5	0.15	0.061
069703	Soil	0.41	24.15	23.06	50.2	303	30.6	15.7	566	2.89	652.4	1.0	128.6	16.8	16.7	0.03	2.36	0.45	4	0.15	0.050
069704	Soil	0.43	3.75	5.23	35.4	26	16.1	2.7	104	2.79	242.1	1.1	60.1	6.1	3.5	0.02	0.97	0.39	6	0.01	0.031
069705	Soil	0.47	28.26	23.87	72.6	83	29.9	13.5	396	3.43	68.4	1.3	15.4	10.4	11.4	0.07	1.07	0.31	11	0.14	0.052
069706	Soil	0.58	37.85	28.02	76.1	72	33.4	19.9	571	3.57	42.2	1.4	7.3	8.4	7.6	0.06	1.61	0.34	13	0.05	0.060
069707	Soil	0.34	36.72	27.63	90.5	81	37.9	21.5	441	3.89	44.5	1.3	8.0	15.7	11.2	0.06	0.86	0.29	11	0.11	0.049
069708	Soil	0.69	44.05	46.21	97.2	131	35.7	22.2	744	3.74	158.0	1.7	54.9	11.3	10.7	0.14	1.20	0.36	13	0.09	0.061
069709	Soil	0.39	44.50	34.74	82.2	177	45.5	29.9	1051	3.41	164.9	1.2	37.1	10.6	16.7	0.10	1.08	0.32	15	0.24	0.044
069710	Soil	0.48	45.19	38.50	94.6	90	47.1	28.8	949	3.84	124.0	1.3	31.1	9.7	12.9	0.11	0.93	0.37	23	0.12	0.052
069711	Soil	2.29	39.65	30.16	92.6	86	35.1	16.9	535	3.87	244.7	2.2	25.4	6.2	8.7	0.11	1.17	0.43	21	0.05	0.072
069712	Soil	1.11	26.21	21.32	70.6	39	29.0	11.8	574	3.79	58.2	0.7	6.0	2.2	4.8	0.07	0.75	0.35	19	0.02	0.093
069713	Soil	5.29	38.58	21.76	84.2	70	35.2	13.0	524	3.66	94.1	1.2	14.1	4.6	5.8	0.11	1.42	0.35	14	0.06	0.068
069714	Soil	0.79	23.85	17.64	97.2	63	41.8	17.8	568	4.41	18.8	0.4	2.3	5.5	6.1	0.10	0.27	0.33	15	0.10	0.064
069715	Soil	8.78	55.58	25.74	95.1	980	43.7	15.0	591	3.78	63.7	1.3	10.8	5.9	10.4	0.58	2.19	0.32	20	0.16	0.046
069716	Soil	4.89	55.75	41.88	106.6	289	45.5	22.9	770	4.32	53.6	1.0	8.9	8.5	8.6	0.30	1.88	0.36	13	0.14	0.038
069717	Soil	8.83	46.54	28.12	91.1	126	47.8	23.0	763	4.09	64.7	1.0	20.6	3.6	9.3	0.32	2.73	0.32	15	0.15	0.067
069718	Soil	7.06	72.99	40.37	101.5	599	59.0	29.2	931	4.32	104.8	1.1	36.9	8.9	10.9	0.44	1.62	0.43	23	0.25	0.050
069719	Soil	3.26	25.48	14.94	71.8	91	33.8	12.6	646	3.93	40.9	0.5	2.5	3.4	4.1	0.11	0.68	0.24	23	0.04	0.079
069720	Soil	0.46	46.73	23.84	108.9	44	43.8	22.0	893	4.60	12.3	0.9	1.7	9.9	3.4	0.04	0.18	0.22	16	0.04	0.042
069721	Soil	0.42	54.23	29.44	107.5	58	44.8	24.7	782	4.49	32.4	1.3	5.1	10.0	4.7	0.04	0.22	0.31	14	0.09	0.040
069722	Soil	5.74	61.58	44.80	107.1	160	48.2	30.6	981	4.25	99.0	1.3	26.3	9.2	12.9	0.17	1.36	0.46	12	0.17	0.047
069723	Soil	0.61	60.03	40.01	99.7	94	43.6	24.0	971	4.16	158.5	1.4	62.0	9.7	10.8	0.05	0.77	0.42	13	0.13	0.037
069724	Soil	0.42	52.19	27.45	81.8	42	36.1	16.1	444	3.61	47.2	0.8	18.8	7.9	10.7	0.01	0.49	0.33	12	0.13	0.029
069725	Soil	0.44	44.23	22.26	85.6	93	41.1	17.8	490	3.96	49.3	0.9	19.2	10.2	10.7	0.03	0.39	0.34	13	0.12	0.039
069726	Soil	0.91	53.30	31.38	93.1	107	41.8	19.9	718	4.00	42.7	1.2	15.7	9.2	10.3	0.10	0.42	0.36	14	0.12	0.038
069727	Soil	1.07	44.36	23.35	89.8	121	41.5	18.8	580	3.82	47.3	1.0	14.5	9.8	11.2	0.11	0.50	0.32	13	0.13	0.040
069728	Soil	0.85	40.22	18.48	87.0	170	40.3	15.0	462	3.63	35.2	1.0	11.7	8.1	13.4	0.08	0.44	0.30	14	0.14	0.042
069729	Soil	3.14	41.54	18.50	97.0	943	38.9	12.6	380	3.80	65.4	1.3	12.6	7.4	10.7	0.11	0.79	0.38	15	0.14	0.043
069730	Soil	3.57	35.89	17.18	88.9	169	37.8	12.0	326	3.50	60.8	1.3	21.6	7.7	10.5	0.09	0.79	0.31	14	0.13	0.043



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**Project:** NA-16176  
**Report Date:** September 17, 2016

**Page:** 2 of 12

**Part:** 2 of 3

# CERTIFICATE OF ANALYSIS

# WHI16000233.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
069701	Soil	27.2	5.9	0.11	24.8	<0.001	<1	0.45	0.003	0.04	<0.1	2.5	0.05	<0.02	11	0.4	0.06	0.7	0.83	<0.1	0.09
069702	Soil	22.9	6.8	0.11	24.8	<0.001	<1	0.44	0.004	0.04	<0.1	2.6	0.04	<0.02	6	<0.1	0.03	0.8	0.90	<0.1	0.10
069703	Soil	24.0	5.5	0.11	44.0	<0.001	<1	0.50	0.004	0.04	<0.1	2.4	0.05	<0.02	<5	0.1	0.03	0.8	1.16	<0.1	0.06
069704	Soil	20.9	5.8	0.05	23.3	<0.001	<1	0.41	0.003	0.03	<0.1	1.5	0.03	<0.02	<5	<0.1	<0.02	1.0	0.98	<0.1	<0.02
069705	Soil	21.3	18.7	0.49	37.8	0.002	<1	1.48	0.007	0.05	<0.1	2.1	0.05	<0.02	<5	0.1	0.02	3.8	1.38	<0.1	0.02
069706	Soil	22.9	20.5	0.51	34.0	0.003	<1	1.53	0.006	0.05	<0.1	1.9	0.06	<0.02	6	0.4	0.05	4.3	1.42	<0.1	0.04
069707	Soil	26.5	21.0	0.61	30.8	0.002	<1	1.67	0.003	0.05	<0.1	1.9	0.04	<0.02	6	<0.1	<0.02	4.1	1.26	<0.1	0.06
069708	Soil	22.8	18.1	0.48	42.8	0.002	<1	1.52	0.006	0.07	<0.1	2.5	0.06	<0.02	10	0.4	0.03	3.7	1.92	<0.1	<0.02
069709	Soil	21.7	27.3	0.96	50.5	0.001	<1	1.82	0.003	0.05	<0.1	3.4	0.04	<0.02	8	<0.1	0.08	4.5	1.65	<0.1	0.08
069710	Soil	24.5	36.0	1.13	40.0	0.002	<1	2.14	0.003	0.05	<0.1	3.7	0.05	<0.02	<5	<0.1	0.05	5.4	1.51	<0.1	0.04
069711	Soil	23.6	26.4	0.66	62.1	0.004	<1	1.97	0.003	0.07	0.1	2.4	0.08	<0.02	<5	0.2	0.04	5.0	2.30	<0.1	0.03
069712	Soil	19.8	26.6	0.73	24.3	0.005	<1	1.84	0.002	0.04	<0.1	1.2	0.05	0.04	11	0.3	0.04	4.8	1.05	<0.1	0.06
069713	Soil	20.2	20.2	0.78	34.2	<0.001	<1	1.73	0.002	0.03	<0.1	2.7	0.11	<0.02	17	0.3	0.08	4.0	1.24	<0.1	0.16
069714	Soil	19.7	29.1	1.10	20.0	<0.001	<1	2.40	0.002	0.03	<0.1	1.7	<0.02	0.03	17	0.2	0.06	6.1	1.12	<0.1	0.11
069715	Soil	20.5	15.0	0.66	25.0	<0.001	<1	1.29	0.002	0.03	<0.1	5.0	0.14	<0.02	32	0.8	0.07	2.8	0.85	<0.1	0.12
069716	Soil	23.4	23.7	0.91	18.4	<0.001	<1	1.81	0.002	0.03	<0.1	3.6	0.08	<0.02	16	0.7	0.08	4.3	0.91	<0.1	0.09
069717	Soil	15.4	24.7	0.84	30.5	<0.001	<1	1.64	0.002	0.03	<0.1	3.0	0.12	0.03	19	0.4	0.06	3.6	1.10	<0.1	0.11
069718	Soil	18.4	28.7	1.09	37.6	<0.001	<1	1.94	0.002	0.03	<0.1	4.5	0.10	<0.02	33	0.8	0.06	4.5	0.68	<0.1	0.17
069719	Soil	16.6	29.1	0.99	34.2	0.002	<1	2.04	0.003	0.03	<0.1	2.0	0.06	0.03	16	0.5	0.07	6.0	1.03	<0.1	0.12
069720	Soil	31.0	33.1	1.17	15.9	0.002	<1	2.54	0.004	0.03	<0.1	2.6	<0.02	<0.02	<5	0.2	0.04	6.5	1.03	<0.1	0.08
069721	Soil	31.0	30.5	1.14	20.4	<0.001	<1	2.44	0.004	0.03	<0.1	2.4	<0.02	<0.02	<5	0.3	0.06	5.9	1.42	<0.1	0.10
069722	Soil	23.4	25.0	0.95	27.8	<0.001	<1	1.94	0.004	0.03	<0.1	3.0	0.06	<0.02	<5	<0.1	0.11	5.0	1.53	<0.1	0.28
069723	Soil	26.5	26.8	1.09	25.4	<0.001	<1	2.17	0.004	0.04	<0.1	2.6	0.03	<0.02	<5	0.2	0.12	5.0	1.44	<0.1	0.13
069724	Soil	20.3	24.1	1.06	23.3	<0.001	<1	2.10	0.004	0.04	<0.1	2.2	<0.02	<0.02	<5	0.1	0.08	5.1	1.60	<0.1	0.07
069725	Soil	26.1	26.6	1.10	18.5	<0.001	<1	2.15	0.002	0.03	<0.1	2.0	<0.02	<0.02	<5	0.2	0.11	4.9	0.97	<0.1	0.09
069726	Soil	26.4	28.2	1.08	25.8	<0.001	<1	2.29	0.004	0.04	<0.1	2.4	0.02	<0.02	<5	<0.1	0.08	5.3	1.23	<0.1	0.12
069727	Soil	25.4	26.8	1.02	20.1	<0.001	<1	2.07	0.002	0.03	<0.1	2.1	<0.02	<0.02	<5	<0.1	0.09	5.2	0.83	<0.1	0.11
069728	Soil	22.8	27.8	1.04	21.5	0.003	<1	2.08	0.001	0.03	<0.1	2.4	<0.02	<0.02	<5	0.4	0.09	5.2	0.87	<0.1	0.09
069729	Soil	19.6	25.8	0.91	37.3	<0.001	<1	2.07	0.003	0.04	<0.1	3.3	0.05	<0.02	10	<0.1	0.05	5.0	1.22	<0.1	0.17
069730	Soil	19.7	23.8	0.86	36.8	<0.001	<1	1.98	0.003	0.04	<0.1	3.1	0.05	<0.02	16	0.5	0.08	5.1	1.21	<0.1	0.16



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**Project:** NA-16176  
**Report Date:** September 17, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
069701	Soil	0.02	2.4	0.3	<0.05	7.7	5.99	56.1	0.02	<1	0.4	4.6	<10	<2
069702	Soil	0.04	2.5	0.2	<0.05	8.2	6.81	46.4	<0.02	<1	0.5	5.1	<10	<2
069703	Soil	0.03	3.2	0.4	<0.05	7.6	7.26	51.0	<0.02	<1	0.3	4.8	<10	<2
069704	Soil	0.03	3.4	0.2	<0.05	0.8	3.11	41.8	<0.02	<1	0.2	2.4	<10	<2
069705	Soil	0.13	5.9	0.5	<0.05	1.3	6.37	44.0	<0.02	<1	0.4	28.1	<10	<2
069706	Soil	0.16	6.4	0.4	<0.05	1.9	3.87	47.7	<0.02	<1	0.4	30.4	<10	<2
069707	Soil	0.03	3.9	0.2	<0.05	4.3	4.10	53.5	<0.02	<1	0.4	35.1	<10	<2
069708	Soil	0.11	6.9	0.4	<0.05	1.5	4.64	47.0	<0.02	<1	0.4	26.3	<10	<2
069709	Soil	<0.02	3.8	0.5	<0.05	5.5	4.91	43.0	<0.02	<1	0.5	47.7	<10	<2
069710	Soil	0.07	4.8	0.4	<0.05	2.2	5.28	47.8	<0.02	<1	0.6	56.2	<10	<2
069711	Soil	0.22	9.3	0.5	<0.05	2.6	5.31	47.0	0.02	<1	0.6	43.8	<10	<2
069712	Soil	0.23	5.2	0.4	<0.05	2.1	2.80	39.4	<0.02	<1	0.3	44.7	<10	<2
069713	Soil	0.06	4.2	0.2	<0.05	5.4	6.40	37.3	0.02	<1	0.6	52.0	<10	<2
069714	Soil	0.03	3.2	0.2	<0.05	3.4	2.43	37.2	<0.02	<1	0.2	83.5	<10	<2
069715	Soil	0.03	3.0	0.1	<0.05	4.5	16.69	37.4	0.04	1	0.4	37.1	<10	<2
069716	Soil	<0.02	2.1	0.2	<0.05	7.0	9.50	44.8	0.03	<1	0.7	61.0	<10	<2
069717	Soil	0.02	3.7	0.2	<0.05	3.9	6.05	29.4	0.02	<1	0.4	47.3	<10	<2
069718	Soil	0.04	2.6	0.2	<0.05	8.3	11.61	34.7	0.03	1	0.9	65.7	<10	<2
069719	Soil	0.16	4.3	0.2	<0.05	3.5	3.22	32.7	0.03	<1	0.4	66.9	<10	<2
069720	Soil	<0.02	2.9	0.1	<0.05	5.3	3.85	58.3	<0.02	<1	0.2	92.1	<10	<2
069721	Soil	<0.02	2.2	0.1	<0.05	7.3	3.91	58.6	0.03	<1	0.7	91.0	<10	<2
069722	Soil	<0.02	2.0	0.2	<0.05	15.2	5.63	44.1	<0.02	<1	0.5	65.8	<10	<2
069723	Soil	<0.02	2.4	<0.1	<0.05	10.2	4.54	50.5	<0.02	<1	0.3	73.4	<10	2
069724	Soil	<0.02	3.2	0.2	<0.05	7.1	3.88	36.6	<0.02	<1	0.3	67.7	<10	<2
069725	Soil	<0.02	2.4	0.1	<0.05	6.1	4.13	48.5	<0.02	<1	0.3	74.2	<10	<2
069726	Soil	<0.02	3.2	0.1	<0.05	6.0	4.61	49.3	0.02	<1	0.3	77.8	<10	<2
069727	Soil	<0.02	2.2	0.1	<0.05	6.4	4.26	46.3	<0.02	<1	0.5	72.5	<10	<2
069728	Soil	0.03	2.9	0.2	<0.05	5.9	4.73	42.2	<0.02	<1	0.2	70.4	<10	<2
069729	Soil	0.03	5.1	0.1	<0.05	6.9	6.12	36.6	<0.02	<1	0.5	66.3	<10	<2
069730	Soil	0.02	5.1	0.2	<0.05	6.9	5.76	38.1	0.02	<1	0.5	60.6	<10	<2



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**Project:** NA-16176  
**Report Date:** September 17, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000233.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
069731	Soil	0.87	58.94	30.90	108.8	124	48.0	23.5	755	4.69	25.8	1.8	7.0	9.6	9.5	0.06	0.50	0.40	17	0.13	0.060
069732	Soil	0.47	21.19	39.35	50.7	195	22.5	7.7	361	3.97	10.7	0.9	1.5	5.3	3.1	0.04	0.23	0.78	18	0.01	0.064
069733	Soil	1.26	35.03	19.08	96.6	47	42.6	14.3	624	4.43	61.3	1.3	12.9	6.7	6.3	0.04	0.65	0.34	16	0.07	0.035
069734	Soil	1.16	36.12	22.02	93.4	122	41.5	13.3	618	4.32	56.4	1.7	11.8	6.4	8.1	0.02	0.52	0.35	16	0.08	0.054
069735	Soil	0.42	19.46	9.43	37.0	63	15.5	5.9	361	1.93	17.6	0.8	4.4	0.7	4.5	0.02	0.24	0.16	12	0.05	0.064
069736	Soil	0.53	19.15	13.85	45.8	43	16.4	7.5	711	3.48	17.3	0.7	3.4	0.9	3.7	0.07	0.44	0.25	21	0.02	0.099
069737	Soil	0.68	27.15	33.86	65.9	65	33.6	16.2	1776	4.64	19.1	0.7	4.0	2.1	6.2	0.08	0.24	0.37	20	0.15	0.174
069738	Soil	0.47	11.48	7.96	43.1	37	16.8	5.2	228	3.89	17.4	0.4	4.6	3.4	2.3	0.03	0.30	0.34	17	0.01	0.033
069739	Soil	0.11	1.85	1.03	6.2	38	1.5	0.6	16	0.21	5.3	<0.1	2.2	0.2	2.3	0.01	0.05	0.03	5	0.02	0.012
069740	Soil	0.77	24.17	23.85	62.6	55	22.7	9.6	522	3.18	59.1	1.0	6.8	3.3	5.2	0.05	0.73	0.36	18	0.03	0.084
069741	Soil	1.01	25.47	27.22	66.3	49	23.1	9.9	493	3.89	164.4	0.9	18.6	2.0	5.7	0.08	1.04	0.46	22	0.03	0.086
069742	Soil	0.44	27.82	155.84	136.4	596	26.4	17.3	542	3.99	5372.3	2.1	527.6	15.0	109.4	0.30	4.45	0.52	6	0.02	0.037
069743	Soil	0.71	67.75	74.48	114.4	174	49.3	51.6	942	4.17	90.7	2.2	13.1	15.7	7.8	0.09	1.29	0.44	14	0.06	0.059
069744	Soil	0.67	47.24	99.06	72.4	119	26.4	27.1	658	3.33	249.2	2.2	17.7	14.7	7.9	0.07	1.38	0.54	11	0.05	0.084
069745	Soil	0.85	56.37	68.37	90.1	95	35.1	33.3	1318	3.95	342.4	2.7	25.7	13.4	6.4	0.05	1.29	0.57	15	0.03	0.079
069746	Soil	0.96	17.17	18.29	52.6	27	19.3	7.1	352	2.89	43.8	0.7	6.2	0.9	5.3	0.04	0.53	0.40	24	0.03	0.061
069747	Soil	0.30	16.15	12.88	60.1	28	24.4	4.0	267	2.75	20.3	0.6	2.8	5.4	6.3	0.01	0.17	0.23	13	0.04	0.038
069748	Soil	0.53	19.92	32.71	65.4	19	25.9	12.1	439	3.21	22.7	0.7	2.2	5.6	6.1	0.05	0.33	0.37	13	0.05	0.056
069749	Soil	0.67	23.84	27.79	80.4	37	33.8	22.2	440	3.97	44.5	0.8	10.2	10.8	3.2	0.06	1.13	0.51	13	0.02	0.051
069750	Soil	0.72	13.49	30.75	72.9	32	32.3	13.1	439	3.54	42.2	0.6	3.4	7.5	4.3	0.04	0.46	0.44	15	0.03	0.042
070591	Soil	0.30	18.23	22.32	74.0	55	26.7	9.0	284	4.40	19.7	0.5	9.4	6.8	2.8	0.03	0.36	0.47	14	0.01	0.056
070592	Soil	0.55	29.66	41.26	84.8	57	30.8	19.4	673	4.45	20.7	0.7	1.3	8.6	3.0	0.04	0.53	0.67	16	0.02	0.059
070593	Soil	0.60	129.68	76.86	123.5	258	53.2	53.3	1227	4.81	12.5	2.3	3.0	28.8	14.8	0.06	0.40	0.70	13	0.28	0.047
070594	Soil	0.30	28.87	40.21	46.4	123	33.1	19.0	340	2.79	14.3	1.2	4.4	22.1	27.6	0.03	1.07	0.24	4	0.59	0.029
070595	Soil	0.47	38.66	28.42	77.4	133	39.8	19.4	400	3.61	10.4	1.6	1.9	15.9	82.9	0.05	0.65	0.30	7	2.24	0.041
070596	Soil	0.44	33.05	55.63	110.6	220	40.5	16.9	356	3.71	58.1	1.5	12.6	16.5	21.1	0.14	1.64	0.32	6	0.27	0.046
070597	Soil	0.62	51.08	47.46	117.3	145	50.4	30.8	1493	6.66	21.6	2.0	2.7	10.6	28.9	0.14	1.33	0.56	10	0.37	0.058
070598	Soil	0.55	43.04	30.90	93.9	113	45.4	19.8	410	4.15	24.7	1.6	4.5	13.5	32.9	0.07	0.83	0.45	10	0.66	0.047
070599	Soil	0.58	46.48	29.64	99.5	121	45.1	18.8	284	4.11	56.3	1.7	5.0	13.3	49.7	0.10	0.99	0.48	9	1.06	0.055
070600	Soil	0.43	54.97	19.40	70.2	100	32.7	11.4	526	3.13	45.5	0.8	52.0	5.3	11.3	0.19	0.81	0.31	18	0.20	0.085



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
069731	Soil	21.7	35.3	1.17	18.9	<0.001	<1	2.58	0.004	0.03	<0.1	2.4	<0.02	<0.02	<5	0.2	0.07	7.3	1.75	<0.1	0.07
069732	Soil	12.7	25.2	0.55	17.9	0.001	<1	1.45	0.005	0.02	<0.1	1.1	0.06	0.03	49	0.4	0.06	7.1	2.07	<0.1	0.08
069733	Soil	13.6	32.5	1.05	25.9	<0.001	<1	2.41	0.004	0.03	<0.1	2.2	0.05	<0.02	7	0.3	0.06	6.6	1.62	<0.1	0.12
069734	Soil	13.7	32.3	1.00	34.4	<0.001	<1	2.46	0.005	0.03	<0.1	2.4	0.06	<0.02	19	0.4	0.06	6.3	2.18	<0.1	0.15
069735	Soil	8.9	13.9	0.35	18.0	0.005	<1	1.19	0.016	0.02	<0.1	0.6	0.03	0.03	21	0.2	0.03	3.9	0.81	<0.1	0.04
069736	Soil	11.1	23.0	0.34	28.6	0.004	<1	1.38	0.008	0.03	<0.1	0.8	0.04	0.05	18	0.4	0.06	6.0	1.49	<0.1	0.04
069737	Soil	9.6	26.4	0.87	20.4	0.004	1	1.96	0.003	0.02	<0.1	1.1	0.03	0.02	20	0.3	0.09	7.1	0.85	<0.1	0.14
069738	Soil	13.1	14.6	0.37	9.2	0.006	<1	1.08	0.008	0.02	<0.1	0.9	0.03	<0.02	19	0.2	0.07	5.9	0.74	<0.1	<0.02
069739	Soil	5.3	1.5	0.01	7.2	0.004	<1	0.09	0.018	0.02	<0.1	0.2	<0.02	<0.02	10	<0.1	<0.02	1.0	0.17	<0.1	<0.02
069740	Soil	11.0	16.6	0.42	23.4	0.005	1	1.36	0.005	0.05	<0.1	0.9	0.07	0.05	32	0.4	0.04	4.8	1.00	<0.1	0.04
069741	Soil	14.0	18.5	0.42	29.5	0.005	<1	1.39	0.003	0.04	0.1	0.8	0.09	0.06	33	0.4	0.07	5.6	1.14	<0.1	<0.02
069742	Soil	14.9	7.7	0.18	108.2	<0.001	<1	0.79	0.004	0.07	<0.1	2.5	0.06	0.03	22	0.3	0.06	1.7	1.20	<0.1	<0.02
069743	Soil	26.2	21.4	0.66	29.9	0.003	<1	1.72	0.003	0.05	<0.1	2.1	0.07	<0.02	16	0.4	0.05	4.7	1.61	<0.1	0.03
069744	Soil	12.0	14.4	0.40	43.5	0.002	<1	1.39	0.006	0.06	<0.1	1.3	0.07	0.05	33	0.4	0.07	4.0	2.44	<0.1	0.06
069745	Soil	15.7	17.7	0.59	37.5	0.002	<1	1.81	0.006	0.07	<0.1	2.3	0.10	0.03	13	0.5	0.09	4.7	3.37	<0.1	0.05
069746	Soil	14.5	17.5	0.50	27.6	0.012	<1	1.46	0.008	0.05	0.1	0.8	0.08	0.04	20	0.4	0.06	5.7	1.55	<0.1	<0.02
069747	Soil	17.0	17.6	0.66	34.3	0.002	<1	1.79	0.010	0.04	<0.1	1.1	0.04	<0.02	7	0.2	0.02	5.1	0.56	<0.1	0.04
069748	Soil	15.6	18.2	0.60	23.6	0.004	<1	1.66	0.006	0.04	<0.1	1.0	0.04	<0.02	10	0.3	0.05	4.9	0.48	<0.1	0.04
069749	Soil	23.0	20.8	0.68	21.6	0.001	<1	1.85	0.003	0.04	<0.1	1.2	0.05	0.03	21	0.3	0.10	5.0	0.61	<0.1	0.05
069750	Soil	23.6	20.1	0.75	33.9	0.002	<1	1.87	0.005	0.04	<0.1	1.2	0.05	<0.02	10	0.4	0.09	5.2	0.76	<0.1	0.04
070591	Soil	14.2	22.5	0.70	24.9	0.001	<1	2.00	0.002	0.04	<0.1	1.1	0.03	<0.02	23	0.2	0.06	5.9	0.58	<0.1	0.07
070592	Soil	14.6	21.7	0.69	23.7	0.002	<1	2.07	0.002	0.04	<0.1	1.2	0.04	<0.02	17	0.3	0.08	5.7	0.83	<0.1	0.07
070593	Soil	6.6	25.3	0.96	19.5	<0.001	<1	2.26	0.003	0.03	<0.1	2.4	0.03	0.03	23	0.4	0.09	5.9	0.74	<0.1	0.18
070594	Soil	7.7	8.6	0.34	19.1	<0.001	<1	0.94	0.002	0.03	<0.1	1.8	0.02	0.05	18	0.2	0.04	1.9	0.73	<0.1	0.13
070595	Soil	6.2	13.7	0.53	20.1	<0.001	<1	1.21	0.003	0.03	<0.1	2.2	0.03	0.06	27	0.3	0.07	3.0	0.50	<0.1	0.23
070596	Soil	10.4	9.8	0.40	20.8	<0.001	<1	1.01	0.004	0.03	<0.1	2.5	0.03	0.06	19	0.4	0.06	2.4	0.54	<0.1	0.13
070597	Soil	10.9	20.1	0.58	39.9	0.002	<1	1.48	0.004	0.02	<0.1	6.0	0.03	0.04	31	0.4	0.08	3.8	0.27	<0.1	0.15
070598	Soil	14.3	16.1	0.67	23.3	<0.001	<1	1.61	0.003	0.03	<0.1	2.3	0.03	<0.02	36	0.4	0.06	4.0	0.66	<0.1	0.14
070599	Soil	16.6	14.3	0.58	25.3	<0.001	<1	1.37	0.003	0.04	<0.1	2.6	0.03	0.03	24	0.4	0.08	3.5	0.61	<0.1	0.12
070600	Soil	25.0	19.1	0.68	88.6	0.008	<1	1.23	0.006	0.04	<0.1	4.1	0.03	0.03	15	0.4	0.05	3.3	0.76	<0.1	0.03

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:** NA-16176  
**Report Date:** September 17, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
069731	Soil	<0.02	2.2	0.2	<0.05	3.8	3.63	39.7	<0.02	<1	0.4	91.7	<10	<2
069732	Soil	0.15	3.7	0.2	<0.05	3.6	1.19	21.4	<0.02	<1	<0.1	36.2	<10	<2
069733	Soil	0.02	3.4	0.2	<0.05	4.0	2.58	26.9	<0.02	<1	0.5	76.4	<10	<2
069734	Soil	0.04	5.1	0.1	<0.05	6.3	3.28	27.1	<0.02	<1	0.3	74.4	<10	<2
069735	Soil	0.12	2.3	0.1	<0.05	1.8	2.12	17.9	<0.02	<1	0.2	28.3	<10	<2
069736	Soil	0.22	5.7	0.3	<0.05	1.8	1.51	21.7	<0.02	<1	0.3	25.3	<10	<2
069737	Soil	0.15	3.2	0.1	<0.05	4.7	1.79	19.4	0.03	<1	0.3	53.7	<10	<2
069738	Soil	0.35	3.1	0.3	<0.05	0.5	0.99	29.7	<0.02	<1	0.1	24.7	<10	<2
069739	Soil	0.03	0.8	0.2	<0.05	0.1	0.29	10.0	<0.02	<1	<0.1	0.4	<10	<2
069740	Soil	0.23	6.5	0.3	<0.05	1.3	2.21	26.7	<0.02	<1	0.2	23.9	<10	<2
069741	Soil	0.26	5.6	0.5	<0.05	0.6	2.30	33.7	0.02	<1	0.2	22.5	<10	<2
069742	Soil	0.03	4.3	0.3	<0.05	1.7	4.64	35.9	0.04	<1	0.5	11.3	<10	<2
069743	Soil	0.09	5.0	0.2	<0.05	1.7	4.44	55.7	0.02	<1	0.9	40.2	<10	<2
069744	Soil	0.13	8.1	0.3	<0.05	2.4	2.20	29.0	0.02	<1	0.6	28.0	<10	<2
069745	Soil	0.11	10.0	0.3	<0.05	2.2	4.12	38.0	0.03	<1	0.6	35.3	<10	<2
069746	Soil	0.40	7.5	0.5	<0.05	0.2	2.01	33.1	<0.02	<1	0.2	25.2	<10	<2
069747	Soil	0.12	5.1	0.1	<0.05	1.7	1.60	38.5	<0.02	<1	0.2	41.1	<10	<2
069748	Soil	0.18	4.1	0.3	<0.05	1.6	1.90	36.9	<0.02	<1	0.2	39.0	<10	<2
069749	Soil	0.12	4.8	0.2	<0.05	1.9	1.61	44.5	<0.02	<1	0.3	49.1	<10	<2
069750	Soil	0.15	5.5	0.2	<0.05	1.7	1.70	43.7	<0.02	<1	0.2	46.2	<10	<2
070591	Soil	0.13	4.8	0.1	<0.05	2.5	1.29	31.8	<0.02	<1	0.3	50.6	<10	<2
070592	Soil	0.13	4.7	0.2	<0.05	2.5	1.94	34.4	<0.02	<1	0.3	51.5	<10	<2
070593	Soil	<0.02	1.7	<0.1	<0.05	12.7	7.26	13.4	0.03	<1	0.8	62.6	<10	<2
070594	Soil	<0.02	1.6	0.2	<0.05	9.9	4.72	16.0	<0.02	<1	0.3	16.9	<10	<2
070595	Soil	<0.02	1.5	0.1	<0.05	16.3	5.72	13.1	<0.02	<1	0.4	30.7	<10	<2
070596	Soil	<0.02	1.9	0.1	<0.05	10.5	7.66	20.4	0.02	<1	0.4	21.7	<10	<2
070597	Soil	0.07	2.0	0.1	<0.05	5.7	14.05	22.0	0.04	<1	0.4	39.9	<10	<2
070598	Soil	<0.02	2.1	0.2	<0.05	9.9	5.09	30.9	<0.02	<1	0.5	45.4	<10	<2
070599	Soil	0.02	2.2	0.1	<0.05	8.5	6.08	34.5	<0.02	<1	0.5	39.8	<10	<2
070600	Soil	0.18	4.4	0.2	<0.05	1.1	6.99	49.9	0.02	<1	0.5	32.0	<10	<2



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**Project:** NA-16176  
**Report Date:** September 17, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000233.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
070571	Soil	0.59	30.30	21.87	74.0	46	31.8	10.5	358	3.47	9.3	1.2	0.6	4.0	4.4	0.06	0.37	0.32	18	0.04	0.067
070572	Soil	0.80	80.06	68.78	124.2	216	62.3	52.2	2460	5.45	18.9	3.2	4.1	16.5	22.7	0.18	1.23	0.79	14	0.20	0.089
070573	Soil	0.91	137.25	90.11	123.7	172	53.3	54.6	1658	5.66	17.1	5.6	4.0	30.4	52.8	0.09	0.97	0.73	15	0.11	0.094
070574	Soil	0.47	77.64	66.41	124.1	34	48.9	30.8	1378	4.46	14.6	2.3	1.9	14.7	5.8	0.09	0.32	0.49	16	0.04	0.047
070575	Soil	0.82	73.39	71.99	118.6	34	47.7	36.4	1213	4.48	27.0	1.7	2.6	10.4	6.0	0.09	0.75	0.63	20	0.04	0.067
070576	Soil	0.33	126.26	35.73	115.5	132	41.9	25.6	1922	4.38	10.1	1.2	3.0	14.3	4.8	0.07	0.27	0.46	16	0.04	0.032
070577	Soil	0.90	52.48	72.39	103.9	27	40.1	23.5	884	4.27	18.6	2.4	1.9	10.1	5.6	0.07	0.66	0.81	16	0.05	0.053
070578	Soil	0.23	72.22	17.83	102.8	111	35.6	19.3	1068	4.21	8.6	1.6	1.1	16.3	8.8	0.06	0.20	0.46	12	0.09	0.027
070579	Soil	0.63	28.04	29.85	71.7	49	24.5	11.7	494	2.92	11.5	1.1	1.4	4.1	3.9	0.07	0.47	0.35	16	0.03	0.061
070580	Soil	0.40	44.81	77.71	73.4	38	25.8	23.1	726	2.83	17.7	0.6	1.4	8.9	7.4	0.05	0.58	0.54	12	0.09	0.055
069801	Soil	0.24	19.71	24.93	78.6	13	31.0	15.7	527	3.45	6.5	0.8	1.1	13.3	2.0	0.03	0.29	0.26	12	0.01	0.018
069802	Soil	0.80	17.65	18.47	55.0	25	15.7	8.3	569	2.85	10.4	0.7	1.1	2.2	4.1	0.04	0.56	0.29	20	0.02	0.075
069803	Soil	0.43	17.20	19.27	45.1	40	15.3	7.2	271	2.10	15.9	0.5	4.2	1.5	2.6	0.03	0.34	0.26	14	0.01	0.055
069804	Soil	0.48	41.75	35.51	97.3	73	39.5	23.1	645	3.78	33.7	0.8	5.3	11.0	4.4	0.04	0.74	0.46	13	0.03	0.034
069805	Soil	0.49	16.67	17.74	57.1	57	19.4	8.2	389	2.83	23.1	0.6	2.0	3.8	3.2	0.05	0.37	0.38	14	0.01	0.065
069806	Soil	0.47	19.15	25.02	56.0	31	20.7	9.5	441	3.13	21.6	0.6	1.4	3.9	2.6	0.04	0.43	0.44	13	0.01	0.074
069807	Soil	0.66	28.51	46.71	78.2	52	28.8	20.8	808	4.23	31.9	0.8	1.7	6.9	3.1	0.07	0.54	0.63	15	0.02	0.069
069808	Soil	0.49	36.19	34.78	80.4	151	34.2	13.3	317	3.53	133.3	5.0	17.3	10.9	24.8	0.06	0.78	0.43	11	0.30	0.052
069809	Soil	0.62	18.43	17.01	60.4	85	15.7	7.0	383	2.77	23.6	1.1	0.9	2.5	4.2	0.11	0.44	0.32	11	0.03	0.084
069810	Soil	0.96	42.59	39.47	91.1	61	32.7	20.8	682	4.94	15.3	1.3	1.6	5.5	3.9	0.09	0.94	0.47	17	0.02	0.099
069971	Soil	0.31	13.34	11.81	66.8	54	19.7	6.4	255	2.93	14.4	0.4	0.6	3.8	8.6	0.10	0.35	0.26	13	0.12	0.064
069972	Soil	0.37	25.85	29.15	78.3	35	27.5	13.1	585	3.76	35.9	0.6	3.2	8.1	6.3	0.07	0.51	0.41	13	0.04	0.057
069973	Soil	0.58	29.58	19.93	86.9	103	30.2	9.8	292	3.18	24.1	15.1	0.9	7.5	25.3	0.05	0.34	0.35	11	0.26	0.054
069974	Soil	0.44	24.14	22.50	68.3	110	25.4	9.8	293	2.81	17.8	4.3	1.3	4.8	55.3	0.06	0.35	0.35	10	0.68	0.059
069975	Soil	0.27	22.36	20.29	77.2	65	28.7	7.9	252	4.53	26.9	0.5	1.2	7.9	4.3	0.03	0.36	0.42	15	<0.01	0.042
069976	Soil	0.36	22.39	32.63	77.6	77	31.9	12.5	376	4.45	19.9	0.5	0.8	8.6	3.0	0.06	0.41	0.42	16	0.02	0.040
069977	Soil	0.56	58.73	64.10	106.0	152	42.7	19.8	550	4.22	22.8	2.7	4.4	14.6	31.5	0.06	0.78	0.92	12	0.30	0.053
069978	Soil	0.50	57.17	42.88	106.2	129	50.3	34.6	656	4.88	12.5	1.7	2.9	19.4	30.0	0.07	0.99	0.50	10	0.40	0.044
069979	Soil	0.53	74.02	51.69	146.7	617	63.3	50.4	995	5.03	647.6	1.6	109.6	21.9	18.1	0.18	1.77	0.63	14	0.27	0.039
069980	Soil	0.35	39.46	32.62	91.5	121	36.2	16.9	563	3.70	23.4	1.4	3.0	11.3	22.4	0.08	0.80	0.38	12	0.26	0.059



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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
070571	Soil	9.1	22.6	0.73	22.5	0.006	<1	1.94	0.005	0.03	<0.1	1.0	0.04	0.04	23	0.3	0.05	5.6	0.68	<0.1	0.08
070572	Soil	11.8	26.5	0.85	26.7	0.001	<1	2.22	0.003	0.03	<0.1	3.5	0.05	0.03	18	0.4	0.10	5.3	0.97	<0.1	0.09
070573	Soil	9.5	27.2	0.88	30.4	<0.001	<1	2.43	0.006	0.04	<0.1	2.2	0.08	0.07	23	0.3	0.11	6.1	1.62	<0.1	0.10
070574	Soil	13.8	27.7	0.95	33.8	<0.001	<1	2.73	0.003	0.04	<0.1	2.3	0.05	<0.02	14	0.2	0.07	6.4	1.39	<0.1	0.15
070575	Soil	15.0	27.2	0.90	34.9	0.002	<1	2.50	0.004	0.03	<0.1	1.8	0.07	<0.02	16	0.3	0.09	6.6	1.33	<0.1	0.16
070576	Soil	9.4	27.8	0.94	27.0	<0.001	<1	2.55	0.002	0.02	<0.1	2.1	0.04	0.02	27	0.2	0.08	6.1	0.76	<0.1	0.10
070577	Soil	13.9	24.8	0.82	25.5	0.003	<1	2.23	0.003	0.03	<0.1	1.4	0.05	<0.02	12	0.2	0.08	5.8	0.83	<0.1	0.09
070578	Soil	13.7	23.2	0.89	27.2	<0.001	<1	2.40	0.001	0.02	<0.1	1.8	0.02	<0.02	20	0.2	0.10	5.9	0.94	<0.1	0.08
070579	Soil	10.5	16.9	0.55	21.4	0.006	<1	1.77	0.008	0.03	<0.1	1.1	0.05	0.03	18	0.3	0.06	4.7	0.63	<0.1	0.09
070580	Soil	14.7	15.5	0.56	26.9	0.002	<1	1.78	0.007	0.03	<0.1	1.3	0.04	0.02	19	0.2	0.08	4.5	0.87	<0.1	0.11
069801	Soil	13.2	25.0	0.73	19.4	<0.001	<1	1.97	0.002	0.03	<0.1	1.4	0.02	<0.02	9	<0.1	0.02	5.0	0.66	<0.1	0.05
069802	Soil	10.7	17.7	0.32	39.7	0.004	<1	1.52	0.005	0.04	<0.1	0.7	0.09	0.03	17	0.3	0.03	5.5	1.12	<0.1	0.03
069803	Soil	8.5	14.5	0.35	21.9	0.005	1	1.26	0.009	0.03	<0.1	0.5	0.06	0.03	15	0.2	0.03	4.1	0.94	<0.1	0.05
069804	Soil	14.7	26.9	0.87	34.9	0.001	1	2.08	0.003	0.04	<0.1	1.4	0.04	<0.02	20	0.1	0.06	5.3	0.75	<0.1	0.10
069805	Soil	15.9	20.0	0.47	36.6	0.002	<1	1.48	0.005	0.04	<0.1	0.8	0.07	0.03	27	0.3	0.06	4.9	0.89	<0.1	0.07
069806	Soil	10.0	19.7	0.46	18.1	0.003	<1	1.40	0.006	0.02	<0.1	0.6	0.04	0.03	23	0.2	0.06	4.5	0.59	<0.1	0.06
069807	Soil	12.9	23.7	0.59	22.1	0.003	<1	1.77	0.002	0.03	<0.1	1.0	0.04	0.04	35	0.4	0.10	5.1	0.78	<0.1	0.05
069808	Soil	17.2	20.6	0.66	27.5	<0.001	<1	1.61	0.003	0.04	<0.1	2.1	0.03	0.03	21	0.4	0.06	4.0	0.79	<0.1	0.08
069809	Soil	8.1	15.6	0.29	35.3	0.002	<1	1.06	0.007	0.04	<0.1	0.7	0.05	0.06	28	0.2	0.04	3.9	0.86	<0.1	0.07
069810	Soil	15.5	29.7	0.72	27.6	0.001	<1	2.06	0.004	0.03	<0.1	1.3	0.05	0.04	23	0.3	0.06	5.8	1.30	<0.1	0.14
069971	Soil	12.9	18.2	0.48	49.3	0.001	<1	1.37	0.004	0.06	<0.1	0.8	0.04	0.03	10	0.1	0.04	4.3	0.49	<0.1	0.04
069972	Soil	17.1	23.4	0.56	40.5	0.001	<1	1.84	0.003	0.06	<0.1	1.2	0.05	<0.02	14	0.2	0.06	4.8	0.58	<0.1	0.07
069973	Soil	13.2	23.1	0.60	42.1	0.004	2	1.78	0.008	0.06	<0.1	1.6	0.04	0.04	24	0.6	0.02	5.1	0.64	<0.1	0.17
069974	Soil	9.4	19.7	0.53	33.2	0.002	1	1.53	0.007	0.05	<0.1	1.3	0.03	0.06	26	0.7	0.04	4.2	0.57	<0.1	0.08
069975	Soil	18.0	27.7	0.69	42.8	<0.001	<1	2.12	0.003	0.07	<0.1	1.2	0.04	<0.02	18	0.2	0.05	5.6	0.52	<0.1	0.05
069976	Soil	13.8	30.1	0.78	25.2	0.001	<1	2.17	0.003	0.04	<0.1	1.3	0.03	<0.02	26	<0.1	0.05	5.9	0.52	<0.1	0.05
069977	Soil	13.4	26.2	0.78	26.7	<0.001	<1	2.03	0.002	0.04	<0.1	1.9	0.03	<0.02	24	0.4	0.08	5.2	1.09	<0.1	0.06
069978	Soil	5.5	21.2	0.67	22.6	<0.001	<1	1.56	0.004	0.03	<0.1	3.1	0.03	0.10	21	0.3	0.06	3.7	0.67	<0.1	0.22
069979	Soil	11.5	30.2	0.82	29.1	<0.001	<1	2.10	0.003	0.04	<0.1	2.7	0.04	0.09	27	0.1	0.06	5.6	1.34	<0.1	0.14
069980	Soil	14.0	19.7	0.58	40.3	0.002	<1	1.63	0.007	0.04	<0.1	2.5	0.03	<0.02	21	<0.1	0.04	4.0	0.53	<0.1	0.07



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**Project:** NA-16176  
**Report Date:** September 17, 2016

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Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
070571	Soil	0.20	3.5	0.2	<0.05	3.1	2.10	17.2	<0.02	<1	0.2	53.6	<10	<2
070572	Soil	0.03	2.5	0.1	<0.05	4.0	9.31	27.1	0.03	<1	0.7	61.7	<10	<2
070573	Soil	0.03	3.6	0.1	<0.05	4.3	4.86	18.9	0.03	<1	0.9	69.2	<10	<2
070574	Soil	0.03	3.3	0.2	<0.05	6.6	3.37	31.3	0.02	<1	0.8	78.1	<10	<2
070575	Soil	0.10	4.9	0.2	<0.05	6.7	3.63	33.4	0.03	<1	0.5	71.6	<10	<2
070576	Soil	0.03	2.3	0.9	<0.05	3.8	3.13	17.9	0.02	<1	0.7	70.6	<10	<2
070577	Soil	0.11	3.8	0.1	<0.05	3.7	4.07	32.0	<0.02	<1	0.5	64.7	<10	<2
070578	Soil	0.06	1.8	0.1	<0.05	3.4	5.46	30.2	0.02	<1	0.7	64.0	<10	<2
070579	Soil	0.20	3.6	0.2	<0.05	2.9	2.68	24.3	<0.02	<1	0.4	37.8	<10	<2
070580	Soil	0.10	3.3	0.2	<0.05	4.3	3.85	34.1	<0.02	<1	0.6	35.8	<10	<2
069801	Soil	<0.02	2.9	0.2	<0.05	1.7	1.62	33.3	<0.02	<1	0.3	51.4	<10	<2
069802	Soil	0.23	6.5	0.4	<0.05	1.1	1.44	24.3	<0.02	<1	0.2	23.4	<10	<2
069803	Soil	0.15	6.1	0.3	<0.05	1.6	1.15	16.7	<0.02	<1	0.2	27.6	<10	<2
069804	Soil	0.04	3.4	0.1	<0.05	3.4	2.21	28.8	<0.02	<1	0.5	66.2	<10	<2
069805	Soil	0.20	5.6	0.2	<0.05	2.2	1.42	30.9	<0.02	<1	0.2	36.2	<10	<2
069806	Soil	0.18	3.9	0.2	<0.05	2.4	1.19	19.6	<0.02	<1	0.2	37.5	<10	<2
069807	Soil	0.22	3.7	0.2	<0.05	1.6	1.55	25.8	0.02	<1	0.3	47.8	<10	<2
069808	Soil	0.08	3.6	0.2	<0.05	3.2	6.19	34.5	<0.02	<1	0.5	49.8	<10	<2
069809	Soil	0.18	4.1	0.3	<0.05	2.5	1.58	15.8	0.02	<1	0.2	22.3	<10	<2
069810	Soil	0.15	2.4	0.2	<0.05	5.7	3.45	29.9	0.03	<1	0.4	60.0	<10	<2
069971	Soil	0.14	6.1	0.2	<0.05	1.6	1.20	25.6	<0.02	<1	0.2	37.0	<10	<2
069972	Soil	0.12	5.5	0.2	<0.05	2.2	2.51	35.5	<0.02	<1	0.3	48.4	<10	<2
069973	Soil	0.18	4.9	0.5	<0.05	5.3	4.58	25.8	<0.02	<1	0.4	57.8	<10	<2
069974	Soil	0.16	4.1	0.2	<0.05	2.5	4.09	18.5	<0.02	<1	0.3	48.4	<10	<2
069975	Soil	0.11	5.3	0.1	<0.05	2.3	1.31	36.3	<0.02	<1	0.3	58.0	<10	<2
069976	Soil	0.13	3.9	0.2	<0.05	1.7	1.45	28.0	0.02	<1	0.3	70.8	<10	<2
069977	Soil	0.02	3.6	0.3	<0.05	2.8	5.07	26.2	<0.02	<1	0.6	84.5	<10	<2
069978	Soil	<0.02	1.4	0.3	<0.05	16.8	7.45	11.9	0.02	<1	0.4	55.8	<10	<2
069979	Soil	<0.02	2.6	0.3	<0.05	9.8	6.66	25.3	0.03	<1	0.8	75.8	<10	<2
069980	Soil	0.06	3.2	0.3	<0.05	3.2	7.36	28.3	<0.02	<1	0.5	48.4	<10	<2



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**Project:** NA-16176  
**Report Date:** September 17, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000233.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	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
069981	Soil	1.11	50.91	34.88	90.6	118	38.0	15.8	1014	3.69	32.1	0.7	14.0	10.0	17.3	0.80	2.87	0.28	11	0.54	0.083
069982	Soil	0.86	11.67	24.95	81.0	54	29.8	11.5	581	2.93	19.1	0.5	31.4	11.3	9.3	0.44	3.46	0.30	11	0.28	0.089
069983	Soil	0.69	79.56	16.94	74.5	61	25.2	12.8	1162	2.70	12.3	0.4	1.1	6.9	43.1	1.18	2.24	0.22	7	1.91	0.080
069984	Soil	1.04	50.18	39.88	93.1	76	38.7	21.3	787	4.28	121.1	2.3	24.0	7.5	10.6	0.06	1.00	0.53	14	0.09	0.057
069985	Soil	0.57	27.05	26.22	79.8	35	30.2	21.2	1178	3.97	27.8	0.9	1.2	5.3	3.5	0.05	0.29	0.45	16	0.03	0.072
069986	Soil	0.70	26.36	29.56	68.5	56	26.0	11.8	373	3.83	37.6	0.9	22.2	4.2	2.4	0.04	0.28	0.36	15	0.01	0.077
069987	Soil	10.74	42.10	39.44	80.2	240	44.9	22.5	711	3.69	72.6	1.3	5.8	2.6	9.4	0.18	3.91	0.41	8	0.20	0.070
069988	Soil	0.24	16.47	22.39	45.6	47	14.8	6.2	1236	2.37	18.9	0.7	0.5	1.3	10.8	0.12	0.58	0.17	5	0.37	0.060
069989	Soil	0.45	23.79	16.32	66.9	26	30.4	12.6	776	4.20	3.9	0.4	12.0	5.5	3.1	0.05	0.21	0.37	22	0.02	0.047
069990	Soil	0.44	25.91	19.53	70.7	22	31.2	13.7	902	4.27	3.8	0.4	0.5	5.6	3.2	0.05	0.20	0.37	22	0.03	0.049
069991	Soil	0.48	38.78	61.45	82.8	67	33.8	16.7	1533	4.70	8.7	0.8	0.7	5.7	3.7	0.08	0.20	0.90	21	0.02	0.071
069992	Soil	1.05	54.39	47.20	84.5	66	43.2	17.8	652	4.41	49.3	2.3	5.5	3.9	10.0	0.05	0.64	0.57	17	0.25	0.088
069993	Soil	0.37	26.28	20.68	78.1	37	33.3	12.9	289	4.40	4.4	0.8	0.7	6.3	3.2	0.03	0.17	0.53	19	0.03	0.078
069994	Soil	0.47	31.00	31.63	95.7	34	64.5	22.8	1218	5.59	19.7	0.6	0.2	6.5	4.8	0.09	0.22	0.36	20	0.10	0.099
069995	Soil	1.26	17.94	28.52	52.3	40	16.3	7.8	1187	2.65	24.8	1.0	1.1	1.0	11.3	0.21	0.79	0.37	8	0.45	0.086
069996	Soil	0.66	77.96	37.08	138.5	57	57.8	31.1	848	5.53	25.2	3.8	5.0	12.7	4.4	0.08	0.64	0.56	18	0.08	0.060
069997	Soil	0.69	30.17	55.80	92.7	572	33.8	12.3	557	4.62	57.2	1.1	10.1	10.2	6.2	0.13	0.53	0.48	20	0.06	0.085
069998	Soil	0.65	35.70	25.99	101.9	60	42.2	17.7	869	4.78	32.4	1.2	5.4	6.3	3.5	0.09	0.88	0.49	14	0.04	0.057
069999	Soil	0.59	40.46	29.74	108.6	86	47.8	18.9	681	4.90	27.5	1.8	1.2	9.6	7.8	0.06	0.69	0.60	15	0.13	0.049
070000	Soil	0.72	49.82	30.31	99.3	94	42.1	17.9	1185	5.01	37.1	3.5	1.8	5.3	10.0	0.09	0.74	0.64	19	0.12	0.105
070851	Soil	0.67	60.71	58.31	99.1	58	43.2	35.9	1966	4.45	71.6	2.0	11.7	6.9	9.5	0.11	0.73	0.52	16	0.10	0.075
070852	Soil	0.49	52.05	47.13	80.7	82	33.9	49.3	1271	3.34	82.9	1.6	8.2	8.3	13.6	0.10	0.64	0.32	11	0.21	0.034
070853	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.
070854	Soil	0.66	83.37	58.56	106.3	70	60.2	33.8	3135	4.96	8.3	1.2	<0.2	6.2	9.2	0.06	0.16	0.88	18	0.11	0.059
070855	Soil	0.85	77.06	77.08	108.0	63	60.2	38.9	3609	4.95	16.7	1.3	1.4	7.5	8.8	0.12	0.35	1.01	21	0.08	0.077
070856	Soil	0.47	68.21	63.96	108.3	84	70.4	27.8	1736	4.85	14.2	1.0	4.7	9.6	6.8	0.05	0.26	0.54	21	0.10	0.033
070857	Soil	0.42	71.23	31.25	118.4	34	50.6	19.4	749	5.16	63.3	1.8	14.4	10.7	6.8	0.09	0.46	0.56	22	0.02	0.041
070858	Soil	0.39	56.33	18.25	111.5	33	50.2	12.3	573	5.24	153.7	1.8	13.9	9.2	4.5	0.04	0.38	0.83	19	0.02	0.032
070859	Soil	0.44	36.31	22.06	119.6	30	53.1	12.6	674	5.75	42.3	1.8	3.4	9.9	4.2	0.06	0.54	0.55	24	0.03	0.035
070860	Soil	0.34	33.93	24.52	78.8	58	31.5	7.1	465	3.84	29.3	2.2	8.3	7.4	7.9	0.02	0.48	0.38	25	0.08	0.055



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# CERTIFICATE OF ANALYSIS

# WHI16000233.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
069981	Soil	31.0	20.5	0.68	62.0	0.003	2	1.02	0.003	0.04	<0.1	6.4	0.03	0.03	17	0.1	0.07	2.2	0.61	<0.1	0.06
069982	Soil	32.8	13.5	0.69	50.5	0.003	<1	0.90	0.003	0.03	<0.1	5.0	<0.02	0.04	22	0.1	0.07	2.1	0.70	<0.1	0.04
069983	Soil	18.8	7.4	1.13	42.5	0.004	2	0.50	0.005	0.03	<0.1	5.6	<0.02	<0.02	22	0.3	0.03	1.0	0.37	<0.1	0.03
069984	Soil	18.1	25.7	0.77	32.4	0.001	<1	1.97	0.007	0.04	<0.1	2.1	0.04	<0.02	15	0.2	0.10	5.5	1.92	<0.1	0.07
069985	Soil	13.2	27.4	0.72	22.5	0.004	<1	1.95	0.009	0.03	<0.1	1.7	0.04	0.04	21	0.2	0.08	5.9	1.72	<0.1	0.11
069986	Soil	16.7	23.1	0.56	17.9	0.002	<1	1.62	0.004	0.03	<0.1	1.4	0.04	0.04	21	0.2	0.07	6.2	1.91	<0.1	0.12
069987	Soil	14.1	7.5	0.18	30.8	<0.001	<1	0.80	0.002	0.02	<0.1	3.3	0.16	0.03	36	0.7	0.10	1.2	1.13	<0.1	0.13
069988	Soil	26.5	4.8	0.06	36.7	0.001	<1	0.54	0.003	0.01	<0.1	4.2	<0.02	0.03	30	0.3	0.05	0.6	0.27	<0.1	0.02
069989	Soil	20.1	30.0	1.01	19.9	0.004	<1	2.07	0.002	0.03	<0.1	1.4	0.03	<0.02	15	<0.1	0.08	7.0	0.94	<0.1	0.05
069990	Soil	19.2	30.1	1.05	20.4	0.004	<1	2.17	0.002	0.03	<0.1	1.5	0.03	<0.02	17	<0.1	0.07	7.1	0.94	<0.1	0.04
069991	Soil	17.3	32.4	0.93	25.5	0.004	<1	2.20	0.003	0.03	<0.1	1.9	0.03	0.04	27	<0.1	0.13	7.0	1.36	<0.1	0.07
069992	Soil	10.5	32.4	0.82	40.3	0.001	1	1.94	0.005	0.05	<0.1	4.0	0.05	0.04	32	0.4	0.09	4.9	2.07	<0.1	0.17
069993	Soil	21.4	30.6	0.86	13.6	0.004	<1	2.06	0.005	0.03	<0.1	1.6	0.04	<0.02	14	0.1	0.11	6.9	1.51	<0.1	0.06
069994	Soil	12.6	43.6	1.08	18.7	0.003	1	2.27	0.003	0.02	<0.1	4.0	0.02	0.05	29	<0.1	0.10	6.4	1.26	<0.1	0.07
069995	Soil	15.6	6.9	0.13	46.4	0.003	<1	0.66	0.006	0.01	<0.1	3.3	0.04	0.05	15	0.3	0.08	1.1	0.33	<0.1	0.05
069996	Soil	29.8	38.8	1.17	13.9	0.001	<1	2.87	0.003	0.02	<0.1	2.8	0.04	<0.02	19	<0.1	0.11	7.5	2.02	<0.1	0.07
069997	Soil	33.8	30.3	0.63	24.0	0.010	<1	2.02	0.003	0.04	0.2	1.9	0.05	0.02	71	0.3	0.06	5.2	1.25	<0.1	0.06
069998	Soil	16.7	28.9	0.85	24.0	<0.001	<1	2.11	0.003	0.03	<0.1	2.6	0.03	0.02	9	0.1	0.10	5.9	1.32	<0.1	0.09
069999	Soil	15.1	33.8	1.06	20.0	<0.001	<1	2.44	0.003	0.03	<0.1	2.4	0.03	0.02	10	0.3	0.11	7.3	1.83	<0.1	0.08
070000	Soil	15.3	31.7	0.93	29.9	0.002	<1	2.35	0.003	0.03	<0.1	2.6	0.03	0.03	17	<0.1	0.07	7.2	1.98	<0.1	0.17
070851	Soil	12.1	30.9	0.94	42.8	0.001	<1	2.37	0.004	0.03	<0.1	1.6	0.04	0.03	12	<0.1	0.08	6.5	1.41	<0.1	0.16
070852	Soil	12.5	22.2	0.74	35.1	<0.001	<1	1.95	0.002	0.02	<0.1	1.7	0.04	<0.02	21	<0.1	0.05	4.6	1.45	<0.1	0.04
070853	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.
070854	Soil	24.9	35.2	1.37	26.0	0.001	1	2.79	0.003	0.02	<0.1	2.6	<0.02	<0.02	20	<0.1	0.28	7.9	1.73	<0.1	0.12
070855	Soil	26.4	45.7	1.32	19.6	0.003	<1	2.83	0.003	0.03	<0.1	3.1	0.02	0.03	22	0.5	0.29	7.7	3.07	<0.1	0.12
070856	Soil	32.4	35.7	1.54	17.5	<0.001	<1	3.11	0.003	0.04	<0.1	3.0	<0.02	<0.02	19	0.3	0.16	7.7	6.66	<0.1	0.09
070857	Soil	13.7	44.3	1.15	20.6	0.001	<1	2.79	0.005	0.03	<0.1	2.6	0.03	<0.02	15	<0.1	0.05	8.9	4.16	<0.1	0.11
070858	Soil	2.7	39.7	1.14	11.5	<0.001	<1	2.77	0.004	0.02	<0.1	2.5	<0.02	<0.02	<5	0.1	0.08	8.4	2.52	<0.1	0.08
070859	Soil	5.3	46.4	1.29	18.5	0.002	<1	3.19	0.004	0.02	<0.1	2.8	0.02	<0.02	7	0.3	0.05	9.4	1.49	<0.1	0.09
070860	Soil	3.8	29.4	0.80	16.3	0.008	<1	1.99	0.014	0.03	<0.1	2.1	0.03	<0.02	15	0.2	0.05	6.2	3.05	<0.1	<0.02



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**Project:** NA-16176  
**Report Date:** September 17, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
069981	Soil	0.08	3.3	4.1	<0.05	1.9	17.80	65.1	0.03	<1	0.5	35.8	<10	<2
069982	Soil	0.05	2.3	0.6	<0.05	1.4	12.48	79.1	0.03	<1	0.6	40.9	<10	<2
069983	Soil	0.09	2.1	1.8	<0.05	1.8	19.02	39.0	0.03	<1	0.3	12.5	<10	<2
069984	Soil	0.07	4.3	0.5	<0.05	2.9	4.16	34.5	<0.02	<1	0.5	57.2	<10	<2
069985	Soil	0.17	4.4	0.4	<0.05	4.3	2.49	26.9	<0.02	<1	0.3	55.3	<10	<2
069986	Soil	0.14	5.2	0.2	<0.05	4.4	2.15	32.8	<0.02	<1	0.3	43.3	<10	<2
069987	Soil	0.07	4.1	0.4	<0.05	3.8	21.03	29.0	0.04	1	0.7	10.5	<10	<2
069988	Soil	0.04	2.4	0.1	<0.05	1.0	27.27	36.9	0.04	<1	0.7	3.6	<10	<2
069989	Soil	0.17	4.0	0.4	<0.05	1.7	2.34	39.6	<0.02	<1	0.4	75.0	<10	<2
069990	Soil	0.17	4.0	0.3	<0.05	1.9	2.39	39.2	<0.02	<1	0.3	76.0	<10	<2
069991	Soil	0.17	4.8	0.4	<0.05	2.8	3.69	35.5	0.02	<1	0.5	69.1	<10	<2
069992	Soil	0.14	5.7	0.8	<0.05	5.1	9.15	20.7	0.03	<1	0.8	56.3	<10	<2
069993	Soil	0.16	4.1	0.3	<0.05	2.2	2.02	41.6	<0.02	<1	0.2	65.1	<10	<2
069994	Soil	0.11	3.3	0.4	<0.05	2.6	4.56	27.0	0.03	<1	0.5	82.0	<10	<2
069995	Soil	0.09	2.3	0.3	<0.05	1.5	15.90	33.4	0.03	<1	0.5	5.3	<10	<2
069996	Soil	0.03	1.7	0.2	<0.05	3.9	4.03	68.3	0.02	<1	0.6	101.5	<10	<2
069997	Soil	0.51	5.3	0.6	<0.05	2.8	3.23	67.8	0.03	<1	0.4	53.6	<10	<2
069998	Soil	0.03	3.0	0.2	<0.05	3.7	4.64	33.7	0.02	<1	0.5	71.0	<10	<2
069999	Soil	<0.02	2.5	0.3	<0.05	3.4	2.72	28.4	0.03	<1	0.3	83.6	<10	<2
070000	Soil	0.11	4.5	0.3	<0.05	5.7	9.82	27.6	0.03	<1	0.2	74.8	<10	<2
070851	Soil	0.05	2.8	0.6	<0.05	6.0	3.76	24.4	0.05	<1	1.1	73.0	<10	<2
070852	Soil	<0.02	1.7	0.4	<0.05	1.9	4.52	27.1	0.02	<1	0.8	55.9	<10	<2
070853	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.
070854	Soil	0.02	2.3	0.6	<0.05	5.3	4.82	45.0	<0.02	<1	0.3	103.1	<10	<2
070855	Soil	0.04	3.1	1.8	<0.05	5.5	5.67	49.7	<0.02	<1	0.8	101.0	<10	<2
070856	Soil	<0.02	3.6	0.3	<0.05	6.4	4.31	60.5	0.03	<1	0.6	114.4	<10	<2
070857	Soil	0.03	3.3	0.6	<0.05	4.3	2.25	28.4	0.04	<1	<0.1	90.7	<10	<2
070858	Soil	<0.02	2.0	0.3	<0.05	3.3	1.46	6.0	0.04	<1	<0.1	87.0	<10	2
070859	Soil	0.08	2.9	0.2	<0.05	4.8	1.60	11.4	0.03	<1	0.2	101.3	<10	<2
070860	Soil	0.05	2.6	0.2	<0.05	1.6	1.57	9.8	<0.02	<1	0.2	60.7	<10	<2



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**Project:** NA-16176  
**Report Date:** September 17, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000233.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
070861	Soil	0.35	52.21	36.13	103.3	56	45.1	11.5	603	5.06	114.4	3.0	28.1	10.2	6.7	0.06	0.62	0.41	20	0.04	0.034
070862	Soil	0.41	48.54	22.11	112.3	79	51.7	19.3	733	5.25	142.3	2.5	28.3	9.8	5.9	0.04	0.49	0.39	21	0.05	0.035
070863	Soil	0.31	45.34	26.30	111.4	61	49.7	18.5	742	5.21	142.8	2.6	29.1	8.9	7.0	0.03	0.46	0.38	20	0.04	0.035
070864	Soil	0.35	40.21	26.72	112.0	47	51.3	15.4	676	5.30	32.6	2.3	7.0	8.4	6.7	0.03	0.40	0.41	21	0.03	0.037
070865	Soil	0.33	40.77	26.70	109.1	33	47.9	18.0	663	4.92	20.4	1.7	4.2	9.6	6.7	0.03	0.34	0.37	18	0.05	0.036
070866	Soil	0.90	64.19	40.27	92.9	82	38.0	19.1	624	4.10	53.9	3.5	6.8	7.2	18.7	0.07	1.15	0.59	14	0.10	0.042
070867	Soil	0.59	49.52	33.57	100.8	60	42.4	18.4	727	4.36	24.4	2.6	4.7	8.7	10.3	0.05	0.53	0.45	17	0.07	0.044
070868	Soil	0.45	45.06	39.84	102.9	36	49.1	21.3	1259	5.04	25.0	1.9	1.5	8.2	6.4	0.04	0.43	0.62	20	0.03	0.050
070869	Soil	0.53	50.04	39.34	106.0	61	47.7	24.0	662	4.73	40.7	2.5	10.8	11.0	14.4	0.06	1.42	0.49	16	0.08	0.039
070870	Soil	0.66	25.80	22.66	54.0	112	22.6	6.4	272	3.73	11.1	1.5	1.0	3.2	4.9	0.05	0.38	0.45	20	0.03	0.131
070871	Soil	0.47	38.53	25.90	86.1	51	35.9	16.8	571	3.72	74.0	1.3	11.7	11.4	17.4	0.03	0.69	0.44	12	0.08	0.040
070872	Soil	0.46	37.07	27.27	88.4	106	38.4	19.7	1234	5.05	7.0	2.3	1.8	12.3	35.0	0.13	0.35	0.66	14	0.47	0.097
070873	Soil	0.54	49.65	46.81	64.5	194	46.2	41.0	989	4.57	12.9	2.8	3.6	21.2	49.2	0.13	1.26	0.63	11	0.50	0.077
070874	Soil	0.56	22.30	28.48	52.8	118	33.7	27.1	1327	4.03	10.8	1.7	2.8	14.5	33.4	0.09	1.09	0.45	10	0.53	0.078
070875	Soil	0.33	46.29	42.18	46.3	216	46.2	32.5	1155	4.36	7.4	1.8	0.9	23.8	26.7	<0.01	0.43	0.60	10	0.37	0.054
070876	Soil	0.56	155.74	120.92	113.8	399	107.6	90.3	2584	6.63	21.6	4.9	3.8	34.1	56.7	0.19	1.61	0.72	10	0.36	0.091
070877	Soil	0.17	7.89	12.37	14.0	51	8.3	4.8	301	1.38	110.8	0.7	10.0	10.3	15.3	0.04	0.76	0.14	3	0.21	0.029
070878	Soil	0.11	8.62	18.27	16.0	73	11.5	8.3	632	1.75	29.5	0.7	7.8	18.8	28.1	0.01	0.65	0.20	<2	0.60	0.036
070879	Soil	0.13	7.68	16.44	15.7	63	10.8	7.4	632	1.65	27.6	0.7	6.4	17.8	25.4	0.04	0.60	0.19	<2	0.56	0.032
070880	Soil	0.26	43.21	34.71	109.4	84	45.0	26.2	504	4.41	6.0	1.5	1.9	23.1	64.5	0.07	0.40	0.47	11	1.67	0.047
070881	Soil	0.59	39.61	31.57	78.4	82	24.7	11.8	351	3.97	6.6	1.1	1.3	5.0	5.2	0.14	0.76	0.58	16	0.04	0.089
070882	Soil	0.36	41.15	85.11	97.1	192	32.3	25.5	1033	4.01	6.0	1.6	0.8	10.7	44.6	0.18	0.52	0.39	13	0.53	0.080
070883	Soil	0.54	65.98	64.60	113.4	269	46.2	45.9	1960	4.95	15.9	1.9	3.1	32.8	34.6	0.12	1.17	0.46	9	0.38	0.031
070884	Soil	0.29	20.12	21.73	71.1	67	26.5	11.2	276	2.60	3.4	1.8	<0.2	10.5	381.6	0.06	0.25	0.25	5	10.18	0.048
070885	Soil	0.30	28.63	28.56	93.8	64	42.3	18.3	692	3.79	7.3	1.9	1.9	12.6	82.2	0.04	0.82	0.32	10	1.89	0.044
070886	Soil	0.49	31.03	39.08	91.1	119	38.0	15.3	590	4.20	7.3	1.5	2.3	8.9	26.0	0.06	0.50	0.39	14	0.18	0.058
070887	Soil	0.34	39.53	64.38	90.8	53	33.9	22.6	734	3.42	4.4	0.9	1.2	8.7	6.2	0.07	0.17	0.32	13	0.07	0.057
070888	Soil	0.44	23.49	19.62	70.1	24	26.5	8.2	246	3.27	5.3	0.8	0.8	4.8	6.4	0.05	0.33	0.34	15	0.06	0.066
070889	Soil	0.46	20.13	23.27	73.4	28	23.5	9.2	665	3.43	5.2	0.8	1.7	2.8	4.6	0.09	0.41	0.31	14	0.03	0.069
070890	Soil	0.34	35.64	34.79	89.9	53	33.3	11.7	448	4.02	7.5	1.0	1.2	6.4	5.7	0.04	0.49	0.34	14	0.08	0.062



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# CERTIFICATE OF ANALYSIS

# WHI16000233.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
070861	Soil	4.2	39.8	1.12	23.2	0.001	<1	2.78	0.006	0.03	<0.1	3.2	0.02	<0.02	<5	0.2	0.05	8.0	2.14	<0.1	0.05
070862	Soil	6.2	42.0	1.21	17.9	0.001	1	2.89	0.004	0.02	<0.1	3.1	<0.02	<0.02	6	<0.1	0.06	8.5	1.91	<0.1	0.04
070863	Soil	8.1	41.7	1.17	21.1	0.001	<1	2.85	0.005	0.02	<0.1	2.9	0.02	<0.02	11	<0.1	0.04	8.3	1.94	<0.1	0.05
070864	Soil	8.3	41.4	1.18	18.4	0.001	1	2.90	0.005	0.02	<0.1	2.6	0.02	<0.02	7	0.2	0.02	8.6	2.01	<0.1	0.08
070865	Soil	22.3	36.9	1.21	16.8	0.001	<1	2.72	0.004	0.02	<0.1	2.3	<0.02	<0.02	<5	<0.1	0.07	7.0	1.36	<0.1	0.06
070866	Soil	18.3	26.8	0.93	39.8	0.002	1	2.22	0.006	0.05	<0.1	2.3	0.04	0.02	16	0.2	0.07	5.7	2.30	<0.1	0.09
070867	Soil	15.4	33.5	1.01	26.1	0.001	<1	2.43	0.007	0.03	<0.1	2.2	0.02	<0.02	9	0.1	0.09	6.9	1.49	<0.1	0.04
070868	Soil	16.3	39.0	1.16	16.8	0.001	1	2.69	0.004	0.02	<0.1	2.2	0.02	0.02	16	<0.1	0.08	8.3	1.43	<0.1	0.13
070869	Soil	19.1	32.6	1.10	17.1	0.001	<1	2.41	0.003	0.03	<0.1	2.1	0.03	<0.02	<5	<0.1	0.07	7.1	0.77	<0.1	0.12
070870	Soil	18.7	26.2	0.50	15.8	0.005	2	1.36	0.004	0.02	<0.1	1.2	<0.02	0.08	52	0.5	<0.02	6.2	1.83	0.1	0.08
070871	Soil	27.0	21.3	0.91	22.6	0.001	<1	1.90	0.003	0.03	<0.1	1.6	0.03	<0.02	8	<0.1	0.06	4.8	0.84	<0.1	0.06
070872	Soil	14.8	27.1	0.86	31.4	0.003	1	2.18	0.002	0.03	<0.1	4.3	0.03	0.04	62	<0.1	<0.02	6.0	0.51	<0.1	0.15
070873	Soil	19.5	17.8	0.75	50.1	0.003	<1	2.06	0.006	0.04	<0.1	3.4	0.07	0.04	32	0.4	0.05	4.6	1.74	<0.1	0.18
070874	Soil	21.1	16.1	0.68	44.3	0.002	2	1.78	0.002	0.03	<0.1	3.4	0.04	0.02	35	0.7	<0.02	3.9	1.22	<0.1	0.17
070875	Soil	22.4	22.5	0.86	24.1	0.001	<1	1.99	0.002	0.03	<0.1	3.2	0.03	<0.02	38	0.5	0.02	4.9	1.58	<0.1	0.15
070876	Soil	17.2	21.2	0.72	31.7	0.002	3	1.84	0.003	0.04	<0.1	4.2	0.08	0.10	110	0.4	<0.02	4.5	1.71	0.2	0.14
070877	Soil	17.3	3.4	0.18	26.9	<0.001	<1	0.98	0.002	0.02	<0.1	0.9	0.03	<0.02	6	<0.1	<0.02	1.5	1.09	<0.1	0.06
070878	Soil	21.2	2.7	0.38	16.1	<0.001	1	1.31	0.002	0.02	<0.1	2.0	<0.02	<0.02	21	<0.1	<0.02	1.6	0.91	<0.1	0.18
070879	Soil	20.8	3.0	0.36	15.5	<0.001	<1	1.26	0.002	0.02	<0.1	1.7	<0.02	<0.02	21	<0.1	<0.02	1.5	0.83	<0.1	0.11
070880	Soil	14.6	25.4	1.05	22.2	<0.001	<1	2.20	0.002	0.04	<0.1	2.5	0.04	0.04	23	0.4	0.02	5.7	1.56	<0.1	0.44
070881	Soil	33.6	18.4	0.42	22.9	0.002	<1	1.48	0.002	0.02	<0.1	1.0	0.06	0.05	39	0.4	<0.02	5.8	0.90	0.1	0.10
070882	Soil	20.3	25.9	0.69	30.7	0.001	1	2.09	0.003	0.02	<0.1	3.6	0.04	0.05	70	0.5	<0.02	5.5	0.91	<0.1	0.23
070883	Soil	21.4	19.2	0.58	96.4	<0.001	<1	1.86	0.003	0.03	<0.1	4.7	0.07	<0.02	30	0.2	<0.02	4.3	1.90	<0.1	0.24
070884	Soil	22.0	12.7	0.50	19.0	<0.001	<1	1.06	0.002	0.03	<0.1	4.2	0.03	<0.02	44	0.2	<0.02	2.4	0.47	<0.1	0.16
070885	Soil	12.8	19.0	0.82	45.7	<0.001	1	1.91	0.003	0.04	<0.1	2.6	0.03	<0.02	21	0.3	0.02	4.9	0.76	<0.1	0.16
070886	Soil	18.3	20.4	0.65	38.6	0.001	1	1.96	0.006	0.02	<0.1	2.8	0.05	0.04	26	0.3	0.03	5.2	0.84	<0.1	0.12
070887	Soil	9.9	18.7	0.70	25.6	0.004	1	1.93	0.008	0.03	<0.1	1.7	0.04	0.03	18	0.4	0.03	5.2	0.94	<0.1	0.09
070888	Soil	12.7	18.2	0.60	25.4	0.004	1	1.72	0.004	0.03	<0.1	1.2	0.06	0.03	11	0.4	0.03	5.3	0.83	<0.1	0.11
070889	Soil	14.2	16.7	0.47	30.1	0.004	1	1.56	0.005	0.03	<0.1	0.8	0.06	0.04	16	0.3	0.03	4.9	0.83	<0.1	0.10
070890	Soil	12.1	20.0	0.68	28.5	<0.001	1	2.08	0.002	0.02	<0.1	1.2	0.05	0.03	18	0.2	0.03	5.7	0.85	<0.1	0.12



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**Project:** NA-16176  
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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
070861	Soil	0.03	2.0	0.2	<0.05	3.3	2.11	10.9	0.03	<1	0.4	82.4	<10	<2
070862	Soil	<0.02	2.0	0.2	<0.05	2.4	2.28	13.7	<0.02	<1	0.3	91.6	<10	<2
070863	Soil	0.03	2.3	0.2	<0.05	2.5	2.30	19.4	0.02	<1	0.2	83.3	<10	<2
070864	Soil	0.03	2.6	0.2	<0.05	3.3	1.82	17.2	<0.02	<1	0.3	89.5	<10	<2
070865	Soil	<0.02	2.0	0.2	<0.05	3.2	2.54	39.7	<0.02	<1	0.3	93.3	<10	<2
070866	Soil	0.09	5.0	0.3	<0.05	4.1	4.34	32.8	<0.02	4	<0.1	67.2	<10	<2
070867	Soil	0.05	2.8	0.4	<0.05	2.3	3.19	28.6	<0.02	<1	0.6	76.6	<10	<2
070868	Soil	0.04	2.8	0.3	<0.05	4.5	1.88	30.6	<0.02	<1	0.1	89.2	<10	<2
070869	Soil	<0.02	1.9	0.3	<0.05	8.0	3.08	33.7	<0.02	<1	0.3	87.0	<10	<2
070870	Soil	0.14	3.8	0.8	<0.05	2.3	1.15	31.4	0.04	<1	<0.1	35.9	<10	<2
070871	Soil	<0.02	2.9	0.3	<0.05	3.8	4.02	47.5	0.02	<1	0.4	58.8	<10	<2
070872	Soil	0.07	2.9	0.6	<0.05	5.0	12.60	32.1	0.06	<1	0.3	74.5	<10	<2
070873	Soil	0.09	4.1	0.5	<0.05	8.1	21.07	40.0	0.04	<1	1.1	58.0	<10	<2
070874	Soil	0.06	3.0	0.4	<0.05	6.7	46.83	51.7	0.06	<1	0.9	47.7	<10	<2
070875	Soil	<0.02	2.3	0.8	<0.05	11.2	12.56	44.9	0.04	<1	1.1	61.4	<10	<2
070876	Soil	0.03	3.3	0.7	<0.05	10.3	27.28	39.5	0.08	<1	1.6	58.8	<10	<2
070877	Soil	<0.02	3.5	0.4	<0.05	2.4	4.78	35.2	<0.02	<1	0.4	8.1	<10	<2
070878	Soil	<0.02	2.0	0.4	<0.05	6.6	13.47	42.7	<0.02	<1	0.4	11.0	<10	<2
070879	Soil	<0.02	1.9	0.6	<0.05	5.7	12.83	41.4	<0.02	<1	0.2	10.3	<10	<2
070880	Soil	<0.02	3.3	0.6	<0.05	20.5	7.51	25.2	<0.02	<1	0.7	78.7	<10	5
070881	Soil	0.20	4.0	0.4	<0.05	4.6	4.82	59.5	<0.02	<1	0.2	34.6	<10	2
070882	Soil	0.09	3.1	0.4	<0.05	7.8	15.34	42.5	0.02	<1	0.9	62.1	<10	<2
070883	Soil	<0.02	2.9	0.8	<0.05	19.4	17.18	42.0	0.04	1	1.0	42.3	<10	<2
070884	Soil	<0.02	1.8	0.7	<0.05	10.3	10.73	42.7	0.02	<1	0.4	38.0	<10	<2
070885	Soil	<0.02	2.6	0.7	<0.05	8.5	8.50	24.8	0.02	<1	0.6	55.6	<10	<2
070886	Soil	0.07	3.6	0.4	<0.05	4.1	11.19	43.9	0.02	<1	0.6	49.4	<10	<2
070887	Soil	0.11	4.0	0.6	<0.05	3.7	5.69	20.4	<0.02	<1	0.7	49.0	<10	<2
070888	Soil	0.21	4.3	0.3	<0.05	3.2	2.95	25.9	<0.02	<1	0.4	39.2	<10	<2
070889	Soil	0.19	4.5	0.4	<0.05	2.8	2.85	35.4	<0.02	<1	0.3	33.2	<10	<2
070890	Soil	0.06	3.3	0.2	<0.05	4.3	4.30	24.1	<0.02	<1	0.6	49.5	<10	<2



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**Project:** NA-16176  
**Report Date:** September 17, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
070891	Soil	0.41	43.11	56.11	96.5	158	42.2	28.7	811	4.11	8.7	1.3	1.7	11.6	16.8	0.05	0.35	0.44	13	0.22	0.052
070892	Soil	0.48	45.22	68.63	106.2	198	48.7	47.1	1471	4.30	6.2	1.6	1.3	20.7	14.5	0.07	0.20	0.40	11	0.25	0.032
070893	Soil	0.55	37.57	60.98	95.5	49	57.9	33.5	1363	5.38	15.2	1.5	1.4	7.3	16.7	0.08	0.41	0.48	44	0.15	0.094
070894	Soil	0.35	19.58	32.21	86.6	54	30.6	14.1	675	3.50	12.5	1.1	1.2	9.0	8.2	0.07	0.75	0.28	13	0.14	0.049
070895	Soil	0.41	42.56	149.17	256.7	561	42.4	19.9	491	4.01	183.8	1.7	26.8	16.1	126.0	0.16	4.41	0.50	6	2.39	0.052
070896	Soil	0.36	36.99	32.47	94.6	129	40.2	18.5	513	4.13	5.9	1.2	0.8	15.6	44.8	0.04	0.35	0.44	9	0.74	0.055
070897	Soil	0.30	26.97	26.93	72.1	101	32.1	13.8	439	3.61	6.4	0.9	0.7	12.9	15.2	0.06	0.36	0.37	8	0.20	0.049
070898	Soil	0.29	26.73	25.38	74.5	96	34.9	14.8	420	3.78	5.6	1.0	0.5	13.3	23.3	0.05	0.34	0.38	9	0.41	0.049
070899	Soil	0.44	43.19	27.42	68.3	85	37.1	20.3	364	3.28	18.6	2.9	4.2	12.0	18.7	0.02	0.70	0.31	9	0.14	0.052
070900	Soil	0.51	53.54	52.11	97.5	106	42.0	25.4	820	4.28	14.1	1.1	2.5	17.1	16.7	0.05	0.62	0.62	14	0.20	0.041
070901	Soil	0.53	31.41	50.17	60.0	324	36.8	14.9	273	3.79	9.7	1.0	2.2	11.2	16.3	0.04	0.51	0.35	8	0.30	0.035
070902	Soil	0.41	35.97	33.29	88.3	168	40.7	16.1	462	4.12	5.0	1.6	0.9	16.7	25.0	0.07	0.33	0.42	8	0.39	0.045
070903	Soil	0.49	31.73	35.83	55.6	188	42.0	25.3	856	4.31	6.7	1.6	2.6	17.1	22.2	0.03	0.58	0.46	11	0.30	0.057
070904	Soil	0.48	43.75	41.24	75.9	193	47.3	27.0	848	4.58	9.5	1.5	2.3	17.5	26.7	0.05	0.88	0.52	10	0.39	0.053
070905	Soil	0.50	41.19	37.44	57.6	201	47.6	27.4	607	4.50	8.7	1.4	3.4	18.2	42.3	0.02	1.04	0.50	9	0.58	0.059
070906	Soil	0.40	37.93	37.26	54.3	203	43.6	21.5	471	4.10	8.2	1.2	2.1	16.2	58.1	0.03	0.75	0.49	8	1.03	0.050
070907	Soil	0.37	35.99	34.07	76.8	174	41.9	18.0	372	3.92	6.9	1.4	1.4	16.1	141.1	0.05	0.52	0.47	7	2.54	0.049
070908	Soil	0.35	37.34	34.68	77.4	153	40.6	18.7	383	3.98	6.1	1.3	1.5	16.0	76.7	0.04	0.44	0.44	7	1.49	0.057
070909	Soil	0.33	31.62	33.91	63.7	168	37.7	17.0	444	3.66	8.7	1.2	2.0	15.6	143.1	0.03	0.76	0.43	6	2.48	0.056
070910	Soil	0.29	42.45	36.57	106.6	154	42.9	21.8	690	4.65	6.0	1.2	1.5	15.3	24.4	0.06	0.41	0.51	12	0.36	0.059
070911	Soil	0.37	34.31	37.57	97.6	141	41.0	22.6	677	4.20	6.0	1.0	2.0	17.2	50.2	0.04	0.43	0.39	9	0.79	0.056
070912	Soil	0.46	36.04	39.21	104.3	152	45.2	21.4	577	4.42	4.7	1.2	0.9	20.3	54.3	0.03	0.32	0.35	8	1.34	0.037
070913	Soil	0.40	35.46	34.69	93.3	161	41.1	18.5	691	4.27	5.7	1.1	1.4	17.0	28.0	0.05	0.31	0.40	9	0.30	0.037
070914	Soil	0.37	30.76	32.23	98.5	109	37.8	16.3	396	3.93	6.1	1.1	1.2	12.0	69.7	0.05	0.72	0.36	9	1.47	0.049
070915	Soil	0.36	41.86	38.19	110.5	121	44.9	24.7	607	4.53	4.5	1.1	1.2	18.7	25.7	0.08	0.22	0.40	11	0.35	0.042
070916	Soil	0.31	24.35	29.95	88.6	120	31.7	11.2	367	3.62	4.4	1.3	1.2	6.6	28.8	0.05	0.33	0.29	9	0.51	0.065
070917	Soil	0.42	31.45	32.19	95.7	95	37.4	13.3	336	3.80	6.0	1.2	1.2	10.4	22.8	0.06	0.43	0.32	11	0.32	0.053
070918	Soil	0.94	47.39	100.20	112.2	136	61.7	52.3	1760	5.18	16.8	2.7	2.1	27.0	93.6	0.12	1.62	0.42	14	0.21	0.115
070919	Soil	0.35	34.54	33.69	102.6	153	44.6	26.1	1172	4.14	7.3	1.2	1.0	13.3	28.1	0.08	0.31	0.35	11	0.41	0.070
070920	Soil	0.42	29.27	33.53	91.7	192	39.7	14.0	623	3.93	7.5	1.2	1.4	11.3	18.7	0.10	0.78	0.32	10	0.24	0.077



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# CERTIFICATE OF ANALYSIS

# WHI16000233.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
070891	Soil	15.4	20.1	0.75	27.3	0.002	<1	1.82	0.002	0.02	<0.1	2.7	0.04	<0.02	36	0.4	0.03	4.9	0.63	<0.1	0.13
070892	Soil	22.2	21.9	0.82	32.9	<0.001	<1	2.12	0.002	0.03	<0.1	2.6	0.06	<0.02	29	0.3	0.03	5.3	1.13	<0.1	0.16
070893	Soil	16.6	47.8	1.44	60.0	0.002	1	2.99	0.004	0.07	<0.1	5.6	0.07	0.06	16	0.3	0.02	6.9	1.57	<0.1	0.16
070894	Soil	41.1	16.7	0.56	41.6	0.003	1	1.66	0.002	0.05	<0.1	2.1	0.06	<0.02	18	0.3	0.03	4.5	0.68	<0.1	0.09
070895	Soil	10.7	11.8	0.52	21.8	<0.001	<1	1.26	0.002	0.04	<0.1	2.7	0.04	0.05	37	0.2	0.03	3.0	0.69	<0.1	0.16
070896	Soil	11.6	17.4	0.78	18.3	<0.001	<1	1.65	0.002	0.03	<0.1	2.4	0.03	0.02	30	0.2	0.03	4.5	0.48	<0.1	0.16
070897	Soil	15.3	15.0	0.66	15.7	0.001	<1	1.38	0.002	0.02	<0.1	2.4	<0.02	<0.02	21	0.2	0.03	3.7	0.26	<0.1	0.09
070898	Soil	12.7	16.6	0.73	14.5	0.001	<1	1.49	0.002	0.02	<0.1	2.1	<0.02	0.02	18	0.3	0.03	4.1	0.25	<0.1	0.15
070899	Soil	11.0	14.1	0.60	26.8	0.001	<1	1.56	0.007	0.03	<0.1	1.2	0.03	<0.02	9	0.2	0.03	3.9	0.55	<0.1	0.03
070900	Soil	12.8	23.5	0.87	23.5	<0.001	<1	1.98	0.002	0.03	<0.1	2.0	0.03	<0.02	13	0.2	0.08	5.5	0.61	<0.1	0.16
070901	Soil	16.9	14.4	0.50	21.3	<0.001	<1	1.34	0.002	0.03	<0.1	3.2	0.05	0.02	51	0.3	0.02	3.5	0.53	<0.1	0.13
070902	Soil	16.0	15.9	0.71	15.9	0.001	<1	1.40	0.002	0.02	<0.1	3.3	0.03	0.06	45	0.3	0.03	3.6	0.45	<0.1	0.21
070903	Soil	11.2	19.9	0.87	24.2	<0.001	<1	1.88	0.002	0.03	<0.1	3.2	0.04	0.02	28	0.3	0.03	4.9	0.82	<0.1	0.11
070904	Soil	13.4	19.2	0.84	23.8	<0.001	<1	1.87	0.002	0.03	<0.1	3.7	0.03	0.03	33	0.3	0.03	4.8	0.74	<0.1	0.16
070905	Soil	14.8	18.4	0.81	20.6	<0.001	1	1.73	0.002	0.03	<0.1	3.2	0.04	0.03	32	0.3	0.03	4.5	0.81	<0.1	0.16
070906	Soil	12.7	15.6	0.74	14.4	<0.001	<1	1.47	0.001	0.03	<0.1	2.5	0.03	0.03	34	0.3	0.03	3.9	0.49	<0.1	0.18
070907	Soil	15.9	14.7	0.64	15.5	<0.001	<1	1.30	0.001	0.02	<0.1	2.8	0.03	0.03	42	0.3	0.03	3.4	0.39	<0.1	0.20
070908	Soil	16.4	15.4	0.68	15.5	<0.001	<1	1.40	0.002	0.03	<0.1	2.6	0.03	0.03	32	0.2	0.03	3.7	0.44	<0.1	0.15
070909	Soil	15.7	13.6	0.63	14.7	<0.001	<1	1.29	0.001	0.03	<0.1	2.6	0.03	0.02	32	0.3	0.03	3.2	0.40	<0.1	0.15
070910	Soil	9.9	21.9	0.82	22.0	0.001	<1	2.05	0.002	0.03	<0.1	3.6	0.02	<0.02	12	0.2	0.02	5.5	0.59	<0.1	0.12
070911	Soil	9.3	18.8	0.77	26.5	<0.001	<1	1.80	0.002	0.04	<0.1	3.2	0.04	<0.02	24	0.2	0.02	4.6	0.85	<0.1	0.15
070912	Soil	9.2	18.7	0.69	25.2	<0.001	2	1.62	0.003	0.05	<0.1	3.2	0.04	0.02	41	0.3	0.02	4.3	1.53	<0.1	0.39
070913	Soil	12.7	19.0	0.77	20.7	<0.001	<1	1.71	0.002	0.03	<0.1	4.4	0.02	0.02	51	0.2	0.02	4.4	0.61	<0.1	0.13
070914	Soil	19.4	17.6	0.75	19.2	<0.001	<1	1.63	0.002	0.02	<0.1	3.6	0.02	<0.02	30	0.3	0.02	4.2	0.38	<0.1	0.12
070915	Soil	10.0	22.5	0.89	19.2	<0.001	<1	2.11	0.002	0.03	<0.1	3.8	0.03	<0.02	32	0.2	0.03	5.4	0.72	<0.1	0.15
070916	Soil	26.5	15.1	0.61	33.9	0.001	1	1.56	0.005	0.03	<0.1	4.6	0.03	0.03	30	0.4	<0.02	4.0	0.38	<0.1	0.13
070917	Soil	17.1	20.2	0.75	29.1	<0.001	<1	1.93	0.003	0.04	<0.1	2.6	0.03	<0.02	23	0.2	0.03	5.1	0.59	<0.1	0.11
070918	Soil	8.4	22.6	0.63	44.4	0.002	<1	1.94	0.007	0.04	<0.1	3.8	0.07	0.04	18	0.4	0.03	5.2	0.97	<0.1	0.07
070919	Soil	25.9	20.3	0.79	32.5	0.001	<1	1.93	0.002	0.03	<0.1	5.4	0.04	<0.02	43	0.2	0.02	4.9	0.72	<0.1	0.08
070920	Soil	37.4	17.0	0.61	30.9	0.001	<1	1.72	0.002	0.02	<0.1	5.0	0.04	<0.02	32	0.3	<0.02	3.8	0.50	<0.1	0.08



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**Project:** NA-16176  
**Report Date:** September 17, 2016

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
070891	Soil	0.03	1.7	0.2	<0.05	5.3	9.56	36.8	<0.02	<1	0.6	49.8	<10	<2
070892	Soil	<0.02	2.1	0.5	<0.05	7.4	9.55	52.2	<0.02	<1	0.8	56.0	<10	<2
070893	Soil	0.13	7.2	0.4	<0.05	5.2	10.10	58.3	0.05	<1	0.9	46.8	<10	<2
070894	Soil	0.13	5.6	0.3	<0.05	3.0	8.73	84.9	<0.02	<1	0.5	25.7	<10	<2
070895	Soil	<0.02	2.1	0.4	<0.05	10.8	7.45	22.2	0.03	<1	0.6	34.6	<10	<2
070896	Soil	0.03	1.6	0.2	<0.05	11.3	7.62	24.5	<0.02	<1	0.5	55.4	<10	<2
070897	Soil	<0.02	1.3	0.3	<0.05	6.8	7.53	37.2	<0.02	<1	0.5	47.2	<10	<2
070898	Soil	<0.02	1.2	0.3	<0.05	8.8	6.81	26.6	<0.02	<1	0.4	52.3	<10	<2
070899	Soil	0.02	2.1	0.2	<0.05	2.6	3.49	23.1	<0.02	<1	0.5	38.2	<10	<2
070900	Soil	<0.02	1.7	0.3	<0.05	9.0	5.60	24.9	<0.02	<1	0.4	70.5	<10	<2
070901	Soil	0.03	3.3	0.3	<0.05	5.0	10.38	40.5	<0.02	<1	0.5	34.8	<10	<2
070902	Soil	<0.02	1.6	1.0	<0.05	10.4	9.58	37.6	0.02	<1	0.6	49.4	<10	<2
070903	Soil	<0.02	2.1	1.6	<0.05	6.0	10.53	24.4	0.02	<1	0.6	62.3	<10	<2
070904	Soil	<0.02	1.8	1.3	<0.05	9.2	11.17	32.3	0.03	<1	0.6	58.2	<10	<2
070905	Soil	<0.02	1.9	1.2	<0.05	9.9	10.54	37.0	0.02	<1	0.8	57.3	<10	<2
070906	Soil	<0.02	1.3	0.4	<0.05	13.3	7.72	26.2	<0.02	<1	0.5	51.9	<10	<2
070907	Soil	<0.02	1.3	0.4	<0.05	11.1	8.01	35.7	0.02	<1	0.5	44.5	<10	<2
070908	Soil	<0.02	1.3	0.5	<0.05	10.0	7.87	38.9	<0.02	<1	0.5	47.2	<10	<2
070909	Soil	0.03	1.4	0.5	<0.05	9.3	7.28	37.0	<0.02	<1	0.5	42.2	<10	<2
070910	Soil	<0.02	2.0	0.2	<0.05	5.9	8.19	20.5	0.02	<1	0.5	62.6	<10	<2
070911	Soil	<0.02	2.2	1.0	<0.05	9.0	8.80	19.1	0.02	<1	0.7	55.3	<10	<2
070912	Soil	<0.02	3.3	2.6	<0.05	22.7	7.30	18.3	0.02	<1	0.6	48.6	<10	<2
070913	Soil	<0.02	2.2	1.1	<0.05	8.5	13.90	25.3	0.02	<1	0.7	51.2	<10	<2
070914	Soil	0.03	1.5	0.6	<0.05	6.5	9.87	45.1	0.02	<1	0.5	52.4	<10	<2
070915	Soil	<0.02	2.0	0.9	<0.05	8.6	10.49	20.7	0.02	<1	0.6	58.8	<10	<2
070916	Soil	0.06	2.3	0.5	<0.05	4.2	14.84	57.5	0.03	<1	0.7	44.2	<10	<2
070917	Soil	0.05	2.6	1.6	<0.05	4.7	9.60	38.3	<0.02	<1	0.6	54.4	<10	<2
070918	Soil	0.05	2.5	1.0	<0.05	5.3	13.99	19.9	0.03	<1	0.9	53.3	<10	<2
070919	Soil	0.03	2.5	0.7	<0.05	4.3	18.27	58.3	0.02	<1	0.7	56.6	<10	<2
070920	Soil	0.05	2.7	0.3	<0.05	4.1	16.00	80.0	0.03	<1	0.6	47.1	<10	<2



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**Project:** NA-16176  
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# CERTIFICATE OF ANALYSIS

# WHI16000233.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
070921	Soil	0.39	25.41	27.27	95.4	35	34.9	15.0	466	3.93	6.7	1.1	2.1	7.6	4.8	0.09	0.57	0.35	12	0.03	0.043
070922	Soil	0.66	21.17	18.49	56.9	44	16.0	8.1	723	3.25	5.0	0.8	1.0	1.4	3.8	0.07	0.37	0.32	18	0.02	0.095
070923	Soil	0.42	27.62	29.46	86.9	34	36.2	14.4	618	3.67	6.3	0.9	1.2	9.1	12.7	0.07	0.31	0.32	14	0.17	0.088
070924	Soil	1.13	21.93	39.02	81.7	58	20.6	15.6	1400	4.03	12.6	2.3	0.5	1.6	24.7	0.10	0.50	0.43	26	0.49	0.162
070925	Soil	0.34	20.40	20.62	46.0	63	22.7	8.4	406	2.96	7.3	0.8	1.1	6.3	16.2	0.02	0.48	0.30	9	0.34	0.081
070926	Soil	0.26	42.41	28.75	89.8	57	34.7	22.8	1547	3.70	9.5	1.1	0.5	15.2	26.1	0.06	0.37	0.38	13	0.41	0.040
070927	Soil	0.68	37.17	38.08	88.7	47	34.4	20.1	766	3.77	12.6	1.8	1.9	10.6	6.7	0.06	0.56	0.51	19	0.08	0.053
070928	Soil	0.46	41.94	20.53	77.2	47	27.9	12.7	792	3.16	6.2	1.8	0.8	7.7	6.4	0.08	0.28	0.51	19	0.07	0.058
070929	Soil	0.92	35.01	39.65	65.7	124	26.0	5.3	213	4.29	8.4	1.8	0.6	7.4	5.4	0.04	0.44	0.68	16	0.02	0.123
070930	Soil	0.79	77.40	47.33	100.7	134	40.7	19.5	471	5.43	9.6	4.1	1.8	13.8	6.3	0.05	0.67	0.63	15	0.02	0.090
070931	Soil	0.51	44.63	28.84	44.5	200	52.9	22.8	435	4.77	20.7	2.3	4.3	13.3	22.2	0.04	1.03	0.37	5	0.30	0.044
070932	Soil	0.81	71.39	39.92	152.2	185	61.5	42.1	653	6.33	11.9	1.8	1.2	16.3	24.4	0.08	0.59	0.81	10	0.78	0.038
070933	Soil	0.44	49.81	30.81	98.7	148	47.4	21.5	508	4.72	11.3	1.5	2.4	13.5	21.9	0.05	0.46	0.47	12	0.32	0.055
070934	Soil	0.49	30.82	18.49	81.4	63	31.6	10.0	295	3.73	9.4	1.9	0.9	6.6	17.4	0.06	0.38	0.44	13	0.27	0.085
070935	Soil	0.44	38.84	24.20	78.1	117	38.3	11.4	386	4.10	11.2	1.8	2.3	8.3	20.6	0.04	0.48	0.44	13	0.32	0.068
070936	Soil	0.33	41.97	22.40	78.7	108	40.7	13.3	395	4.32	10.1	1.8	1.9	10.5	17.4	0.03	0.45	0.41	13	0.25	0.056
070937	Soil	0.37	45.35	29.16	100.0	130	41.2	15.0	427	4.13	16.3	1.9	1.8	9.6	23.6	0.05	0.50	0.50	12	0.31	0.054
070938	Soil	0.38	26.89	28.38	77.3	136	27.1	11.0	276	3.19	16.4	3.2	0.7	6.6	19.2	0.03	0.42	0.41	11	0.27	0.059
070939	Soil	0.38	28.47	30.39	83.1	105	28.6	12.3	302	3.51	18.9	3.5	1.7	7.9	17.6	0.03	0.43	0.44	11	0.25	0.054
070940	Soil	0.26	24.38	21.55	75.6	59	34.3	13.4	506	3.42	18.4	1.9	6.3	8.7	12.2	0.04	0.39	0.34	12	0.17	0.042
069791	Soil	0.47	31.44	13.01	59.3	50	29.7	8.5	499	3.08	16.7	0.9	2.8	1.9	4.1	0.02	0.25	0.28	13	0.05	0.054
069792	Soil	1.38	38.04	18.41	101.5	47	55.1	16.1	918	4.91	32.5	1.0	9.9	6.0	4.8	0.06	0.36	0.32	18	0.10	0.050
069793	Soil	0.50	23.09	18.41	54.8	52	22.3	14.4	908	2.61	10.9	0.5	0.2	2.3	3.9	0.03	0.21	0.26	12	0.05	0.049
069794	Soil	0.67	25.17	23.39	62.1	115	25.9	9.0	576	4.25	23.0	0.6	0.8	2.5	3.1	0.03	0.76	0.47	19	0.01	0.092
069795	Soil	0.94	61.39	37.09	106.8	76	47.0	28.5	1274	5.34	43.9	2.3	13.5	5.4	8.7	0.07	3.08	0.56	17	0.04	0.063
069796	Soil	0.84	19.79	16.07	62.3	19	25.2	9.4	359	2.67	9.5	0.9	1.4	3.9	8.3	0.09	0.46	0.23	21	0.10	0.060
069797	Soil	0.62	25.24	14.91	66.4	15	27.4	9.3	323	3.07	8.4	1.5	1.7	5.6	6.3	0.07	0.45	0.24	23	0.06	0.045
069798	Soil	0.68	33.92	27.20	80.3	35	31.5	14.3	629	3.73	11.8	1.2	0.7	5.3	5.4	0.05	0.44	0.37	21	0.05	0.079
069799	Soil	0.72	23.26	23.27	72.4	51	27.3	10.6	683	3.72	11.3	0.9	0.8	2.3	5.0	0.14	0.40	0.37	22	0.04	0.118
069800	Soil	0.75	32.94	32.96	89.4	16	35.4	15.7	578	3.88	12.7	0.8	0.5	4.4	7.6	0.10	0.39	0.38	24	0.08	0.070



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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
070921	Soil	16.8	19.3	0.72	22.6	0.002	<1	1.98	0.001	0.02	<0.1	1.7	0.03	<0.02	12	0.2	0.02	4.7	0.50	<0.1	0.13
070922	Soil	10.4	16.6	0.30	29.8	0.004	1	1.48	0.003	0.03	<0.1	0.6	0.07	0.04	30	0.4	0.03	5.2	0.89	<0.1	0.08
070923	Soil	12.4	19.6	0.70	24.4	0.004	<1	1.85	0.001	0.02	<0.1	2.0	0.03	<0.02	10	0.3	0.03	4.6	0.37	<0.1	0.10
070924	Soil	17.4	19.8	0.36	59.2	0.005	2	1.71	0.003	0.06	<0.1	0.8	0.07	0.06	19	0.3	0.04	6.1	1.65	<0.1	0.03
070925	Soil	10.6	12.2	0.40	30.7	<0.001	<1	1.33	0.002	0.02	<0.1	2.1	0.04	0.07	36	0.3	0.03	3.2	0.43	<0.1	0.13
070926	Soil	14.5	22.4	0.90	43.2	<0.001	<1	2.08	0.002	0.04	<0.1	2.1	0.03	<0.02	9	<0.1	0.04	5.5	0.93	<0.1	0.09
070927	Soil	14.6	21.3	0.74	22.7	0.007	<1	1.83	0.003	0.03	<0.1	1.9	0.04	<0.02	8	0.2	0.07	5.1	0.58	<0.1	0.05
070928	Soil	13.8	18.5	0.59	33.4	0.010	<1	1.62	0.006	0.03	<0.1	1.9	0.04	<0.02	7	0.2	0.08	4.6	0.75	<0.1	0.03
070929	Soil	6.1	21.5	0.60	19.4	0.004	1	1.68	0.004	0.03	<0.1	1.2	0.04	0.10	68	0.3	0.08	5.2	0.78	<0.1	0.08
070930	Soil	11.5	24.3	0.73	17.0	0.003	2	2.11	0.003	0.03	<0.1	2.0	0.04	0.04	28	0.2	0.08	5.5	1.59	<0.1	0.14
070931	Soil	11.4	7.4	0.31	24.6	<0.001	<1	0.95	0.002	0.04	<0.1	2.8	0.05	0.07	41	0.3	0.07	2.0	0.71	<0.1	0.11
070932	Soil	5.9	18.8	0.70	13.2	<0.001	<1	1.41	0.003	0.03	<0.1	4.4	0.03	0.02	45	0.3	0.08	3.7	0.74	<0.1	0.24
070933	Soil	12.6	20.1	0.77	19.4	<0.001	<1	1.74	0.003	0.03	<0.1	3.5	0.04	<0.02	25	0.3	0.07	4.7	0.54	<0.1	0.13
070934	Soil	8.8	19.1	0.62	42.0	0.001	<1	1.86	0.004	0.02	<0.1	2.0	0.04	0.04	13	0.2	0.06	4.8	0.64	<0.1	0.15
070935	Soil	8.7	21.4	0.70	30.1	0.001	<1	1.90	0.004	0.02	<0.1	2.0	0.03	0.03	17	0.2	0.05	5.0	0.55	<0.1	0.11
070936	Soil	9.9	22.0	0.81	24.7	0.001	<1	2.02	0.003	0.02	<0.1	2.3	<0.02	<0.02	17	0.2	0.05	5.0	0.47	<0.1	0.12
070937	Soil	11.5	21.3	0.74	24.2	0.001	<1	1.92	0.003	0.03	<0.1	2.4	0.02	0.02	19	0.3	0.07	5.0	0.45	<0.1	0.09
070938	Soil	9.9	15.2	0.52	37.1	0.002	<1	1.78	0.011	0.03	<0.1	2.0	0.05	0.03	21	0.3	0.03	4.5	0.78	<0.1	0.15
070939	Soil	10.7	16.4	0.57	37.2	0.001	<1	1.82	0.007	0.03	<0.1	2.2	0.06	0.02	17	0.3	0.04	4.6	0.86	<0.1	0.15
070940	Soil	15.5	20.8	0.76	25.3	0.001	<1	1.66	0.002	0.03	<0.1	1.9	0.03	<0.02	10	0.1	0.05	4.5	0.31	<0.1	0.05
069791	Soil	8.4	20.0	0.67	17.3	0.002	<1	1.68	0.011	0.03	<0.1	1.2	0.03	0.03	14	0.2	0.07	5.2	0.89	<0.1	0.09
069792	Soil	10.9	33.5	1.17	10.1	0.001	<1	2.56	0.002	0.02	<0.1	2.9	<0.02	<0.02	8	<0.1	0.07	7.2	0.60	<0.1	0.08
069793	Soil	9.3	16.2	0.54	14.7	0.005	<1	1.42	0.014	0.02	<0.1	1.2	0.02	<0.02	21	0.1	0.04	4.2	0.80	<0.1	0.10
069794	Soil	11.4	25.2	0.62	13.2	0.002	<1	1.54	0.003	0.03	<0.1	1.4	0.03	0.05	49	0.2	0.09	6.8	1.26	<0.1	0.09
069795	Soil	17.2	31.2	0.94	19.0	<0.001	<1	2.34	0.004	0.03	<0.1	2.8	0.06	0.03	43	0.3	0.11	6.6	2.30	<0.1	0.12
069796	Soil	15.0	16.6	0.45	37.4	0.010	<1	1.41	0.006	0.04	0.2	1.4	0.06	<0.02	15	0.3	0.03	3.9	0.68	<0.1	<0.02
069797	Soil	15.9	19.3	0.57	43.7	0.013	<1	1.76	0.003	0.03	0.1	2.0	0.06	<0.02	9	0.2	0.03	4.7	0.75	<0.1	<0.02
069798	Soil	8.7	23.9	0.76	22.2	0.006	<1	2.03	0.004	0.03	<0.1	1.4	0.05	0.03	25	0.2	0.05	5.9	0.75	<0.1	0.06
069799	Soil	7.4	24.8	0.57	25.8	0.006	1	1.87	0.004	0.04	<0.1	0.9	0.06	0.08	52	0.3	0.07	5.8	0.67	<0.1	0.07
069800	Soil	10.9	25.1	0.75	25.8	0.008	<1	2.14	0.002	0.02	0.1	1.5	0.05	<0.02	15	0.2	0.06	5.8	0.71	<0.1	0.06



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**Project:** NA-16176  
**Report Date:** September 17, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
070921	Soil	0.09	2.3	0.4	<0.05	4.6	5.29	43.7	0.03	<1	0.5	56.1	<10	<2
070922	Soil	0.21	5.3	0.6	<0.05	3.1	2.54	21.9	<0.02	<1	0.3	22.5	<10	<2
070923	Soil	0.11	1.9	0.5	<0.05	4.4	5.49	33.4	0.02	<1	0.4	51.2	<10	<2
070924	Soil	0.36	11.1	0.6	<0.05	1.4	7.03	45.0	0.02	<1	0.7	28.1	<10	<2
070925	Soil	0.11	3.1	0.3	<0.05	4.2	9.74	21.5	0.02	<1	0.5	33.2	<10	<2
070926	Soil	<0.02	1.9	1.1	<0.05	5.8	6.45	33.2	<0.02	<1	0.6	64.5	<10	<2
070927	Soil	0.10	2.7	1.6	<0.05	4.0	4.71	32.3	<0.02	<1	0.5	55.0	<10	<2
070928	Soil	0.19	3.1	0.7	<0.05	1.5	4.91	32.3	<0.02	<1	0.4	47.4	<10	<2
070929	Soil	0.17	3.9	1.7	<0.05	2.5	1.34	12.1	0.03	<1	0.2	41.7	<10	<2
070930	Soil	0.14	3.3	1.6	<0.05	4.9	3.14	23.4	0.03	<1	0.6	47.7	<10	<2
070931	Soil	<0.02	2.0	0.4	<0.05	10.4	8.54	23.9	0.03	<1	0.4	16.4	<10	<2
070932	Soil	<0.02	1.1	0.8	<0.05	14.4	6.77	11.3	0.03	<1	0.2	47.3	<10	<2
070933	Soil	<0.02	1.5	0.4	<0.05	8.4	8.13	23.9	0.03	<1	0.4	47.4	<10	<2
070934	Soil	0.12	3.7	0.7	<0.05	4.6	4.26	17.6	<0.02	<1	0.4	46.0	<10	<2
070935	Soil	0.10	2.6	1.2	<0.05	4.0	5.24	16.8	<0.02	<1	0.4	49.2	<10	<2
070936	Soil	0.04	1.9	0.7	<0.05	4.4	6.07	19.2	<0.02	<1	0.4	54.3	<10	<2
070937	Soil	0.07	2.5	0.7	<0.05	3.4	6.57	21.8	<0.02	<1	0.4	53.4	<10	<2
070938	Soil	0.20	4.1	0.5	<0.05	4.9	6.49	19.5	0.02	<1	0.6	38.6	<10	<2
070939	Soil	0.12	4.1	0.4	<0.05	5.1	7.03	20.9	0.02	<1	0.6	43.5	<10	<2
070940	Soil	0.04	2.3	0.5	<0.05	2.5	4.40	36.2	<0.02	<1	0.3	47.9	<10	<2
069791	Soil	0.13	2.5	0.4	<0.05	2.6	2.10	16.2	<0.02	<1	0.4	45.9	<10	<2
069792	Soil	0.02	1.3	0.5	<0.05	3.8	3.27	21.3	<0.02	<1	0.3	80.9	<10	<2
069793	Soil	0.14	1.8	0.5	<0.05	3.7	1.21	17.9	<0.02	<1	0.3	37.1	<10	<2
069794	Soil	0.11	3.1	0.4	<0.05	4.7	1.17	21.3	<0.02	<1	0.1	39.8	<10	<2
069795	Soil	0.05	2.9	0.5	<0.05	5.1	2.96	38.5	0.03	<1	0.5	66.0	<10	<2
069796	Soil	0.33	4.4	0.8	<0.05	0.7	3.29	37.3	<0.02	<1	0.4	25.7	<10	<2
069797	Soil	0.30	4.1	0.3	<0.05	0.7	4.43	38.4	<0.02	<1	0.4	34.8	<10	<2
069798	Soil	0.19	4.3	0.5	<0.05	2.1	2.16	16.8	<0.02	<1	0.3	55.7	<10	<2
069799	Soil	0.35	4.6	1.2	<0.05	2.2	2.02	15.3	<0.02	<1	0.3	43.1	<10	<2
069800	Soil	0.30	3.6	0.3	<0.05	2.7	2.84	22.3	<0.02	<1	0.4	60.5	<10	<2



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**Project:** NA-16176  
**Report Date:** September 17, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000233.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	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
070511	Soil	0.75	51.06	43.95	98.7	66	45.8	21.2	961	4.96	35.8	1.4	3.4	4.6	3.9	0.04	0.67	0.44	19	0.04	0.066
070512	Soil	0.84	35.02	22.75	77.6	313	33.8	13.3	445	2.90	31.8	0.8	26.6	7.4	19.0	0.12	3.54	0.21	9	0.40	0.065
070513	Soil	0.84	31.75	51.57	103.3	289	33.4	15.7	998	3.43	131.7	1.4	44.9	7.3	14.2	0.27	2.30	0.35	14	0.18	0.067
070514	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.
070515	Soil	0.44	27.82	40.20	78.9	430	30.8	12.4	663	2.96	173.5	0.9	59.7	9.7	17.6	0.14	3.56	0.27	5	0.22	0.051
070516	Soil	0.61	35.64	42.14	102.6	427	41.8	16.3	571	3.83	348.6	1.6	45.9	14.0	26.0	0.18	4.02	0.36	7	0.61	0.061
070517	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.
070518	Soil	1.05	45.67	40.91	86.6	179	42.6	21.8	637	3.96	66.0	3.0	13.2	15.6	32.2	0.23	1.59	0.40	8	0.47	0.081
070519	Soil	0.62	58.39	60.36	123.4	548	52.5	35.4	537	5.30	1074.6	3.3	152.3	18.0	36.3	0.13	3.03	0.67	8	0.32	0.053
070520	Soil	0.97	45.47	40.14	85.8	182	37.6	21.5	608	3.84	18.7	2.0	3.5	13.5	22.4	0.13	1.08	0.42	7	0.35	0.078
069101	Soil	0.66	83.79	63.13	100.4	189	40.3	30.8	800	3.94	23.8	2.2	7.8	17.9	35.1	0.06	0.89	0.79	13	0.49	0.046
069102	Soil	0.75	55.33	37.54	90.1	101	41.2	15.2	420	4.17	14.6	1.6	2.5	15.2	18.1	0.03	0.51	0.62	14	0.27	0.040
069103	Soil	0.44	46.24	42.37	97.8	42	44.2	21.8	500	4.19	12.6	1.0	<0.2	13.1	6.0	0.05	0.69	0.54	12	0.05	0.029
069104	Soil	0.44	31.85	29.66	63.2	123	32.1	14.1	329	3.04	14.5	1.4	1.5	3.6	149.1	0.16	0.74	0.38	8	3.69	0.061
069105	Soil	0.38	53.75	42.88	99.7	146	40.1	21.3	513	3.94	20.6	1.1	3.5	15.1	26.3	0.10	1.01	0.51	10	0.27	0.053
069106	Soil	0.44	41.93	35.46	86.9	156	38.6	15.1	400	4.04	14.9	1.9	2.2	9.3	30.9	0.09	0.93	0.46	11	0.46	0.057
069107	Soil	0.37	47.20	34.94	86.3	99	36.2	14.3	307	3.65	12.9	1.5	2.0	11.3	22.1	0.04	0.51	0.43	11	0.35	0.050
069108	Soil	0.39	45.37	35.36	89.1	92	39.9	18.6	468	3.83	14.6	1.2	3.0	12.2	17.9	0.09	0.51	0.43	12	0.29	0.045
069109	Soil	0.41	45.15	33.06	91.1	86	37.8	14.1	305	3.75	13.5	1.3	4.0	11.1	19.8	0.05	0.52	0.42	12	0.39	0.047
069110	Soil	0.43	39.03	25.59	87.3	110	37.7	10.7	250	3.75	18.3	1.3	9.8	10.7	18.1	0.03	0.58	0.44	12	0.32	0.045
068293	Soil	0.88	41.70	33.06	78.9	72	28.9	16.6	770	3.66	17.5	1.4	0.6	1.4	5.2	0.10	0.47	0.47	22	0.03	0.091
068294	Soil	0.67	25.68	11.11	57.9	72	18.2	7.3	570	5.37	5.0	0.6	0.3	2.1	2.7	0.07	0.23	0.26	23	0.01	0.084
068295	Soil	0.06	5.56	3.04	11.1	22	2.1	1.3	41	0.41	1.8	0.5	<0.2	0.3	23.2	0.02	0.07	0.04	4	0.34	0.049
068296	Soil	0.43	49.52	30.99	77.6	183	46.0	16.8	308	4.04	22.5	1.8	9.8	4.5	59.0	0.15	2.31	0.45	12	1.17	0.081
068297	Soil	0.24	12.93	5.94	24.3	60	6.3	2.7	143	0.81	3.7	0.8	1.6	0.4	56.8	0.10	0.37	0.11	6	0.97	0.066
068298	Soil	0.47	37.50	42.18	91.0	224	37.9	13.2	390	4.42	37.2	1.6	20.0	2.2	73.0	0.18	6.95	0.39	8	1.30	0.072
068299	Soil	0.09	7.00	1.87	14.3	20	1.5	1.4	72	0.46	0.8	0.4	0.8	0.2	20.6	0.04	0.04	0.04	10	0.39	0.042
068300	Soil	0.12	10.15	3.25	10.3	29	2.7	2.1	65	0.56	1.8	0.5	0.3	0.2	21.7	0.01	0.09	0.05	11	0.50	0.061
070741	Soil	0.37	37.90	25.56	71.8	55	36.3	16.6	481	3.46	71.3	1.0	12.6	9.0	17.6	0.04	0.56	0.38	11	0.09	0.035
070742	Soil	0.36	40.62	27.64	80.9	58	37.7	19.0	543	3.63	62.7	1.1	10.1	8.8	19.3	0.04	0.50	0.42	11	0.10	0.037



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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
070511	Soil	15.0	32.0	1.06	21.4	0.003	<1	2.45	0.006	0.03	<0.1	2.5	0.04	<0.02	9	0.2	0.06	7.4	2.84	<0.1	0.09
070512	Soil	12.1	8.4	0.35	33.4	0.002	<1	1.03	0.011	0.03	<0.1	2.7	0.03	0.02	11	0.3	0.04	2.2	0.54	<0.1	0.08
070513	Soil	17.1	13.0	0.29	49.4	0.005	<1	1.10	0.008	0.08	0.1	3.7	0.11	0.04	42	0.5	0.05	2.6	1.88	<0.1	0.03
070514	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.
070515	Soil	10.6	5.2	0.15	32.8	<0.001	<1	0.67	0.005	0.04	<0.1	2.7	0.05	<0.02	8	0.1	0.04	1.4	0.83	<0.1	0.06
070516	Soil	20.9	9.0	0.33	30.3	<0.001	<1	1.02	0.003	0.05	<0.1	4.8	0.06	0.02	19	0.3	0.05	2.3	0.94	<0.1	0.10
070517	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.
070518	Soil	20.0	13.8	0.47	25.1	0.001	2	1.05	0.004	0.03	<0.1	4.8	0.03	0.04	33	<0.1	0.10	2.3	0.71	<0.1	0.15
070519	Soil	11.8	10.9	0.41	31.2	<0.001	1	1.32	0.004	0.04	<0.1	4.1	0.05	0.04	34	0.2	0.13	2.3	1.86	<0.1	0.11
070520	Soil	20.4	13.4	0.49	24.0	0.002	2	1.04	0.004	0.02	<0.1	4.8	0.03	0.04	46	0.2	0.13	2.4	0.47	<0.1	0.15
069101	Soil	11.2	28.1	0.80	36.8	0.002	3	2.03	0.004	0.04	<0.1	2.4	0.04	0.04	84	0.4	0.11	5.6	1.16	<0.1	0.18
069102	Soil	9.3	30.2	0.86	28.3	<0.001	<1	2.06	0.003	0.03	<0.1	1.8	0.03	0.02	26	0.2	0.12	5.3	0.81	<0.1	0.11
069103	Soil	16.2	26.5	0.79	17.6	0.001	<1	2.00	0.002	0.02	<0.1	1.9	0.02	<0.02	<5	<0.1	0.05	5.0	0.49	0.1	0.19
069104	Soil	22.1	12.4	0.30	38.3	0.002	2	0.92	0.008	0.03	<0.1	2.4	0.04	0.05	58	0.4	0.03	2.2	0.36	0.1	0.12
069105	Soil	11.4	21.5	0.65	25.1	0.001	2	1.61	0.003	0.02	<0.1	2.6	0.03	<0.02	19	<0.1	0.07	4.0	0.43	<0.1	0.13
069106	Soil	15.4	21.7	0.59	29.5	0.001	2	1.64	0.004	0.03	<0.1	3.1	0.03	0.03	27	0.2	0.11	4.0	0.55	<0.1	0.16
069107	Soil	11.2	24.3	0.69	30.4	0.001	<1	1.83	0.003	0.03	<0.1	2.2	<0.02	0.02	28	0.1	0.07	4.3	0.46	<0.1	0.10
069108	Soil	12.1	25.9	0.77	23.3	0.002	<1	1.82	0.002	0.02	<0.1	2.3	<0.02	<0.02	38	<0.1	0.06	4.9	0.37	<0.1	0.08
069109	Soil	11.4	25.3	0.78	20.9	0.001	<1	1.82	0.002	0.03	<0.1	2.2	0.02	0.02	22	0.8	0.05	4.9	0.41	<0.1	0.13
069110	Soil	12.9	26.6	0.74	28.8	0.001	2	1.80	0.003	0.02	<0.1	2.7	0.02	0.03	23	0.1	0.05	4.6	0.45	<0.1	0.12
068293	Soil	14.5	28.9	0.64	30.7	0.010	1	1.93	0.008	0.04	<0.1	1.4	0.07	0.04	36	<0.1	0.08	6.6	4.30	<0.1	0.03
068294	Soil	9.7	26.2	0.39	18.9	0.006	1	1.46	0.003	0.02	<0.1	1.1	0.05	0.04	37	0.2	0.06	8.6	2.01	0.1	<0.02
068295	Soil	5.0	1.5	0.05	23.6	0.012	2	0.49	0.046	0.02	<0.1	1.0	0.02	0.02	10	<0.1	<0.02	1.1	0.15	<0.1	0.03
068296	Soil	46.4	14.9	0.61	47.5	0.003	3	1.23	0.008	0.03	<0.1	4.8	0.04	0.04	62	0.8	0.06	3.2	0.82	0.1	0.14
068297	Soil	10.3	3.5	0.09	46.1	0.009	2	0.81	0.032	0.02	<0.1	1.2	0.03	0.09	49	0.3	0.02	1.6	0.38	<0.1	0.04
068298	Soil	28.7	6.5	0.10	55.8	0.002	1	0.63	0.009	0.02	<0.1	4.4	0.03	0.05	52	<0.1	0.14	1.6	0.55	0.1	0.09
068299	Soil	3.1	1.5	0.03	24.6	0.021	1	0.73	0.034	0.02	<0.1	0.9	0.03	0.04	19	0.2	<0.02	1.9	0.16	<0.1	<0.02
068300	Soil	4.1	2.5	0.04	38.6	0.017	<1	0.59	0.033	0.02	<0.1	0.8	0.03	0.04	24	0.4	<0.02	1.5	0.22	<0.1	<0.02
070741	Soil	19.7	20.7	0.84	20.8	0.001	<1	1.75	0.002	0.03	<0.1	1.7	0.02	<0.02	6	0.3	0.11	4.5	0.74	0.1	0.09
070742	Soil	19.4	22.2	0.90	20.1	0.002	<1	1.81	0.003	0.03	<0.1	2.0	<0.02	<0.02	26	<0.1	0.07	4.4	0.69	<0.1	0.04



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**Project:** NA-16176  
**Report Date:** September 17, 2016

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
070511	Soil	0.11	3.6	1.3	<0.05	2.9	2.11	27.9	0.03	<1	0.3	65.6	<10	<2
070512	Soil	0.06	2.2	0.5	<0.05	4.5	9.30	23.3	<0.02	<1	0.7	20.0	<10	<2
070513	Soil	0.28	7.4	2.8	<0.05	1.3	12.60	38.9	0.04	<1	0.4	12.6	<10	<2
070514	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.
070515	Soil	0.03	2.8	0.4	<0.05	5.9	7.73	22.9	<0.02	<1	0.4	6.3	<10	<2
070516	Soil	<0.02	3.0	2.3	<0.05	8.4	9.54	53.1	0.04	<1	1.0	12.5	<10	<2
070517	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.
070518	Soil	0.03	2.0	2.4	<0.05	12.9	15.56	42.2	0.04	<1	1.0	31.6	<10	<2
070519	Soil	0.03	3.1	1.3	<0.05	9.8	8.57	25.0	0.04	2	1.1	19.5	<10	<2
070520	Soil	0.03	1.7	1.6	<0.05	10.5	16.62	39.4	0.05	<1	0.8	33.0	<10	<2
069101	Soil	0.05	3.8	1.5	<0.05	6.0	7.67	20.0	0.04	<1	1.2	75.5	<10	<2
069102	Soil	<0.02	3.0	2.5	<0.05	5.1	4.42	17.0	<0.02	<1	0.4	78.1	<10	5
069103	Soil	0.04	2.6	0.8	<0.05	4.6	3.88	31.8	<0.02	1	0.3	71.7	<10	<2
069104	Soil	0.09	2.9	1.4	<0.05	2.4	9.49	40.1	0.03	<1	0.6	22.7	<10	3
069105	Soil	<0.02	1.8	0.5	<0.05	6.4	6.92	21.8	0.03	1	0.9	54.2	18	<2
069106	Soil	0.06	2.7	0.8	<0.05	4.6	12.21	26.6	0.03	<1	0.3	50.4	<10	<2
069107	Soil	0.05	2.4	0.8	<0.05	5.3	6.79	20.5	<0.02	<1	0.5	57.0	<10	<2
069108	Soil	0.03	1.8	0.9	<0.05	4.6	6.01	23.5	0.03	<1	0.4	65.5	<10	4
069109	Soil	0.03	2.0	0.7	<0.05	4.4	5.63	20.7	<0.02	<1	0.3	64.1	<10	2
069110	Soil	0.05	2.5	0.8	<0.05	4.2	8.42	23.1	0.03	1	0.8	60.9	<10	<2
068293	Soil	0.27	6.7	0.7	<0.05	0.7	3.53	27.8	0.06	<1	0.2	46.5	<10	5
068294	Soil	0.36	4.1	0.6	<0.05	0.8	1.17	16.1	<0.02	<1	0.4	28.6	<10	4
068295	Soil	0.16	1.3	0.1	<0.05	1.2	2.83	8.8	<0.02	<1	0.2	2.2	<10	<2
068296	Soil	0.15	2.9	0.9	<0.05	3.4	22.45	70.9	0.10	<1	0.8	36.1	11	4
068297	Soil	0.39	1.7	0.1	<0.05	1.8	4.38	18.1	<0.02	1	0.5	5.0	<10	<2
068298	Soil	0.11	2.9	0.4	<0.05	2.4	23.24	47.2	0.06	<1	0.4	3.5	<10	3
068299	Soil	0.31	0.9	0.2	<0.05	0.9	1.31	6.8	<0.02	1	0.3	1.1	<10	2
068300	Soil	0.27	1.2	<0.1	<0.05	0.6	1.95	9.2	<0.02	<1	0.4	1.8	<10	9
070741	Soil	<0.02	2.4	0.3	<0.05	3.7	3.40	35.2	<0.02	<1	0.4	57.2	<10	<2
070742	Soil	<0.02	2.3	0.7	<0.05	2.6	3.48	33.8	<0.02	<1	0.4	60.2	<10	<2



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**Project:** NA-16176  
**Report Date:** September 17, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
070743	Soil	0.65	57.29	38.67	90.7	94	39.8	24.5	691	4.12	22.6	2.2	0.5	7.3	7.1	0.05	0.79	0.40	15	0.05	0.057
070744	Soil	0.44	69.00	35.19	109.9	176	46.2	14.8	630	5.18	28.2	3.0	0.4	9.3	12.8	0.06	0.82	0.33	20	0.10	0.040
070745	Soil	0.44	47.57	28.72	94.2	49	44.7	21.0	594	4.12	37.1	2.6	6.7	9.4	12.5	0.08	0.73	0.33	13	0.08	0.045
070746	Soil	0.63	62.71	53.85	104.8	340	50.1	25.0	1184	4.97	61.4	4.2	7.0	8.9	9.3	0.09	1.81	0.62	12	0.23	0.056
070747	Soil	0.71	61.76	35.72	101.7	88	51.4	27.5	1346	5.03	48.6	1.7	4.7	10.2	9.7	0.08	2.05	0.66	11	0.30	0.054
070748	Soil	0.90	74.12	46.77	99.8	189	53.9	27.4	1597	5.07	46.5	2.0	4.8	9.3	8.7	0.10	1.73	0.61	10	0.18	0.051
070749	Soil	1.45	108.25	81.65	126.9	267	59.1	64.9	1505	4.98	74.3	3.7	9.0	11.2	11.5	0.12	1.03	0.51	14	0.12	0.056
070750	Soil	0.87	38.18	39.41	57.6	88	30.6	16.9	1875	3.15	17.1	1.4	2.1	1.0	7.1	0.03	0.30	0.36	14	0.07	0.107
070751	Soil	0.83	76.90	45.60	102.7	123	50.7	31.5	2004	5.09	35.3	1.7	2.3	4.1	6.2	0.05	1.05	0.64	17	0.06	0.065
070752	Soil	0.66	67.26	47.65	102.0	72	49.6	37.0	1632	5.04	23.1	1.6	5.1	5.1	7.3	0.09	0.54	0.44	17	0.08	0.071
070753	Soil	0.88	41.03	39.75	88.4	98	44.9	29.3	2759	5.29	16.7	0.9	1.6	3.7	5.5	0.06	0.53	0.54	20	0.02	0.079
070754	Soil	0.66	39.95	34.20	73.4	63	38.2	20.4	1812	3.94	6.8	0.7	2.6	1.7	3.7	0.03	0.24	0.47	17	0.03	0.100
070755	Soil	0.78	94.74	75.55	105.4	333	58.9	34.4	2528	4.98	32.9	1.5	5.5	4.6	6.4	0.09	0.35	0.67	19	0.08	0.068
070756	Soil	1.14	151.24	62.23	105.7	76	70.9	73.6	3608	4.93	139.3	1.6	24.2	4.5	6.6	0.09	0.43	1.03	23	0.07	0.078
070757	Soil	1.45	105.09	218.33	117.5	1736	86.7	40.4	5628	5.04	18.8	1.7	2.0	4.4	9.3	0.13	0.27	0.91	19	0.10	0.084
070758	Soil	0.39	43.50	13.15	105.1	32	53.8	27.5	881	4.98	13.5	2.1	1.6	7.2	3.5	0.04	0.25	0.35	18	0.03	0.031
070759	Soil	0.46	44.68	17.69	116.9	35	54.7	23.5	920	5.29	61.9	1.5	11.6	7.4	4.2	0.07	0.36	0.39	19	0.04	0.032
070760	Soil	0.33	35.41	36.40	111.5	67	52.1	19.9	725	4.92	482.4	1.8	95.0	6.5	7.0	0.06	0.66	0.35	17	0.02	0.027
070761	Soil	0.47	52.72	32.48	112.0	80	52.5	22.5	830	5.15	82.8	2.5	8.8	8.1	6.2	0.05	0.38	0.33	21	0.05	0.037
070762	Soil	0.50	47.03	22.80	102.4	43	49.0	19.4	738	5.06	18.7	2.0	2.7	7.0	5.4	0.03	0.38	0.35	20	0.03	0.035
070763	Soil	0.49	41.50	40.10	105.0	138	49.3	14.9	647	4.96	37.3	2.1	9.9	6.8	6.0	0.03	0.43	0.37	19	0.02	0.034
070764	Soil	0.55	56.72	33.60	103.0	47	46.5	24.4	747	4.48	19.5	2.1	3.0	8.5	5.3	0.04	0.33	0.49	17	0.05	0.041
070765	Soil	0.84	49.71	45.30	84.1	49	35.0	19.1	808	3.93	13.7	1.1	1.9	6.0	13.9	0.10	0.50	0.60	25	0.17	0.105
070766	Soil	0.88	20.23	24.85	53.9	50	19.6	8.6	417	3.35	5.9	0.8	0.4	2.1	3.3	0.09	0.31	0.34	17	0.02	0.121
070767	Soil	0.57	18.97	20.89	54.5	84	17.4	6.1	268	2.70	5.4	0.9	<0.2	3.5	3.0	0.04	0.28	0.33	16	0.01	0.097
070768	Soil	0.64	53.04	59.62	112.4	97	37.2	29.0	1080	3.92	17.1	1.3	2.4	9.4	16.8	0.13	0.52	0.58	14	0.22	0.051
070769	Soil	0.31	22.36	31.17	68.5	161	25.5	8.8	204	2.98	5.5	0.9	1.7	7.2	17.6	0.05	0.36	0.40	9	0.30	0.075
070770	Soil	0.46	35.77	41.30	78.6	245	41.6	20.8	531	3.90	7.5	1.9	35.5	14.1	33.3	0.56	1.26	0.71	8	0.57	0.056
070771	Soil	0.48	41.05	48.23	80.1	245	44.7	22.2	487	4.28	6.1	1.5	1.2	20.1	26.5	0.05	0.49	0.50	8	0.41	0.053
070772	Soil	0.52	37.03	38.32	50.7	230	39.7	20.1	460	3.86	6.4	1.5	1.6	16.3	23.2	0.03	0.68	0.47	9	0.29	0.052



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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
070743	Soil	23.0	31.8	0.92	18.6	0.004	<1	2.13	0.009	0.03	<0.1	2.4	0.03	<0.02	<5	<0.1	0.06	6.2	1.90	0.1	<0.02
070744	Soil	6.3	43.3	1.21	28.2	<0.001	<1	2.86	0.006	0.04	<0.1	3.4	<0.02	<0.02	15	0.2	0.16	7.8	2.04	0.1	0.21
070745	Soil	15.8	31.7	0.93	19.0	0.001	1	2.11	0.004	0.03	<0.1	2.5	0.02	<0.02	8	<0.1	0.12	6.2	1.15	<0.1	0.16
070746	Soil	12.6	25.3	0.83	17.8	<0.001	<1	1.85	0.004	0.02	<0.1	4.3	0.02	<0.02	9	0.7	0.12	5.0	1.05	<0.1	0.13
070747	Soil	11.9	23.6	0.80	18.6	<0.001	<1	1.74	0.003	0.02	<0.1	4.8	0.02	<0.02	20	0.1	0.18	4.4	0.91	<0.1	0.10
070748	Soil	12.6	21.1	0.68	26.9	<0.001	1	1.62	0.004	0.03	<0.1	4.5	0.04	<0.02	32	0.4	0.13	4.2	1.57	<0.1	0.04
070749	Soil	11.9	33.8	1.08	37.1	<0.001	2	2.54	0.003	0.03	<0.1	2.6	0.06	<0.02	36	<0.1	0.08	6.5	1.80	<0.1	0.03
070750	Soil	8.6	22.1	0.64	32.2	0.003	<1	1.72	0.010	0.03	<0.1	1.3	0.03	0.05	27	0.2	0.05	5.2	1.97	<0.1	0.19
070751	Soil	17.7	32.8	1.25	28.6	0.001	1	2.59	0.004	0.03	<0.1	2.4	0.02	<0.02	28	0.4	0.15	6.8	1.72	<0.1	0.13
070752	Soil	21.7	34.9	1.22	21.8	0.002	1	2.67	0.003	0.03	<0.1	2.5	0.03	<0.02	29	0.2	0.10	6.9	1.42	0.1	0.07
070753	Soil	15.4	34.0	1.24	27.6	0.002	1	2.71	0.004	0.02	<0.1	1.8	0.03	0.03	17	0.1	0.12	7.4	1.72	<0.1	0.15
070754	Soil	9.2	27.6	0.91	29.7	0.003	<1	2.18	0.007	0.02	<0.1	1.9	0.03	0.05	29	0.5	0.12	6.0	1.55	<0.1	0.18
070755	Soil	17.9	40.9	1.32	26.4	0.001	1	2.87	0.004	0.03	<0.1	2.6	0.04	<0.02	12	0.1	0.16	7.4	2.55	<0.1	0.09
070756	Soil	16.5	43.3	1.23	45.1	0.003	2	2.67	0.004	0.03	<0.1	3.2	0.03	<0.02	25	0.2	0.34	6.8	3.24	<0.1	0.10
070757	Soil	16.0	42.8	1.21	23.3	0.002	1	2.69	0.004	0.03	<0.1	3.1	0.02	<0.02	37	0.2	0.46	6.5	2.46	<0.1	0.15
070758	Soil	3.1	43.1	1.13	13.2	<0.001	<1	2.77	0.004	0.02	<0.1	2.5	<0.02	<0.02	12	<0.1	0.05	8.0	4.79	<0.1	0.12
070759	Soil	6.9	43.0	1.14	21.9	0.002	<1	2.79	0.003	0.02	<0.1	2.9	0.02	<0.02	6	<0.1	0.05	8.1	1.38	<0.1	0.10
070760	Soil	5.1	39.3	1.00	24.6	<0.001	<1	2.49	0.005	0.02	<0.1	2.9	<0.02	<0.02	16	<0.1	0.06	7.6	2.06	<0.1	0.11
070761	Soil	6.5	42.5	1.13	25.9	0.001	<1	2.81	0.004	0.03	<0.1	3.0	0.03	<0.02	7	<0.1	0.06	8.3	2.22	<0.1	0.05
070762	Soil	5.5	42.5	1.13	18.5	0.001	<1	2.77	0.005	0.02	<0.1	2.5	0.03	<0.02	10	0.2	0.07	8.1	3.11	<0.1	0.11
070763	Soil	8.1	42.2	1.12	19.9	0.001	<1	2.75	0.005	0.02	<0.1	2.7	0.03	<0.02	10	0.1	0.06	8.2	2.60	<0.1	0.13
070764	Soil	24.8	36.4	1.07	24.4	0.002	<1	2.53	0.008	0.04	<0.1	2.6	0.04	<0.02	13	<0.1	0.09	7.0	3.26	<0.1	0.07
070765	Soil	14.8	30.8	0.75	37.7	0.010	<1	1.97	0.003	0.03	0.1	1.6	0.05	0.02	23	0.2	0.10	5.7	0.96	<0.1	0.03
070766	Soil	7.0	24.6	0.40	18.5	0.004	1	1.52	0.003	0.03	<0.1	0.6	0.05	0.07	44	0.5	0.05	5.3	0.83	<0.1	0.08
070767	Soil	8.1	21.3	0.41	20.8	0.003	1	1.41	0.002	0.03	<0.1	0.7	0.05	0.07	31	0.4	0.05	5.3	0.84	<0.1	0.07
070768	Soil	13.1	26.6	0.81	37.8	<0.001	<1	2.12	0.003	0.04	<0.1	1.6	0.04	0.03	28	0.2	0.07	5.4	0.87	<0.1	0.12
070769	Soil	17.1	17.2	0.48	47.9	0.001	<1	1.53	0.003	0.03	<0.1	2.7	0.06	0.04	25	0.2	0.03	3.9	0.72	<0.1	0.15
070770	Soil	22.5	18.9	0.61	39.2	<0.001	2	1.53	0.003	0.03	<0.1	3.8	0.05	0.03	74	0.3	0.04	3.7	0.66	<0.1	0.20
070771	Soil	23.4	20.7	0.71	32.6	<0.001	<1	1.60	0.003	0.03	<0.1	3.9	0.04	0.02	39	0.3	0.03	3.9	0.70	<0.1	0.15
070772	Soil	15.7	20.5	0.69	46.0	0.003	<1	1.76	0.006	0.03	<0.1	4.1	0.04	<0.02	35	0.2	0.03	4.1	0.60	<0.1	0.16



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**Project:** NA-16176  
**Report Date:** September 17, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
070743	Soil	0.06	2.8	3.8	<0.05	2.2	2.59	40.9	<0.02	<1	0.4	69.2	<10	<2
070744	Soil	<0.02	1.9	22.4	<0.05	11.0	2.61	17.4	0.04	<1	0.8	97.9	<10	<2
070745	Soil	<0.02	1.9	1.0	<0.05	7.8	3.22	29.1	<0.02	<1	0.6	73.5	<10	<2
070746	Soil	<0.02	1.7	32.6	<0.05	4.4	9.27	23.8	0.06	<1	0.3	56.4	<10	<2
070747	Soil	<0.02	1.5	0.7	<0.05	5.2	9.30	23.1	<0.02	<1	0.8	52.3	<10	2
070748	Soil	<0.02	2.0	11.5	<0.05	2.1	10.77	24.8	0.03	2	0.5	45.8	<10	4
070749	Soil	<0.02	1.8	19.8	<0.05	4.0	5.67	24.2	<0.02	1	0.9	88.5	<10	<2
070750	Soil	0.13	3.2	1.8	<0.05	3.8	4.26	14.8	<0.02	<1	0.5	46.6	<10	<2
070751	Soil	0.04	2.7	12.9	<0.05	3.8	3.84	32.7	<0.02	<1	0.7	88.5	<10	<2
070752	Soil	0.03	2.2	2.5	<0.05	3.3	3.45	39.5	<0.02	<1	0.4	93.2	<10	<2
070753	Soil	0.09	3.5	13.9	<0.05	5.5	1.98	28.4	0.04	<1	0.8	83.7	12	2
070754	Soil	0.11	2.9	1.4	<0.05	5.5	2.12	17.5	0.02	<1	0.3	68.5	<10	4
070755	Soil	0.03	3.0	42.1	<0.05	4.3	4.68	37.6	0.06	<1	0.8	101.7	<10	<2
070756	Soil	0.07	3.1	1.2	<0.05	4.0	7.49	38.2	<0.02	<1	1.1	92.0	<10	<2
070757	Soil	0.05	2.5	>100	<0.05	5.4	7.59	35.0	0.18	<1	0.8	96.8	<10	<2
070758	Soil	0.03	2.2	0.8	<0.05	4.5	1.76	10.7	0.02	<1	0.2	87.5	<10	<2
070759	Soil	0.05	2.1	2.4	<0.05	4.8	2.24	20.0	0.02	<1	0.3	81.3	<10	<2
070760	Soil	<0.02	2.4	0.5	<0.05	4.2	2.27	16.6	<0.02	<1	0.4	67.8	<10	<2
070761	Soil	0.03	2.4	3.5	<0.05	2.6	2.73	14.9	0.03	<1	0.3	82.1	<10	<2
070762	Soil	0.04	2.9	0.4	<0.05	4.2	1.86	14.6	<0.02	<1	0.3	86.0	<10	<2
070763	Soil	0.04	2.5	15.8	<0.05	4.6	2.04	18.3	0.03	<1	0.2	87.5	<10	<2
070764	Soil	0.03	3.1	0.6	<0.05	5.2	3.05	48.6	<0.02	<1	0.5	84.4	<10	<2
070765	Soil	0.28	3.5	4.9	<0.05	1.3	4.49	31.7	0.02	<1	0.3	60.4	<10	<2
070766	Soil	0.29	4.6	4.4	<0.05	2.2	1.79	14.3	0.02	<1	0.2	34.1	<10	<2
070767	Soil	0.22	5.4	7.7	<0.05	3.0	1.57	16.4	<0.02	<1	0.1	34.1	<10	<2
070768	Soil	0.04	3.6	1.8	<0.05	4.6	6.26	26.8	<0.02	<1	0.7	63.9	<10	<2
070769	Soil	0.10	4.7	8.1	<0.05	4.6	12.40	33.2	0.02	<1	0.6	40.8	<10	<2
070770	Soil	0.06	2.9	1.2	<0.05	7.8	15.26	45.5	0.03	<1	0.8	49.2	<10	<2
070771	Soil	0.02	2.3	7.7	<0.05	10.3	11.97	47.2	0.04	<1	0.7	60.0	<10	<2
070772	Soil	0.08	2.3	1.6	<0.05	7.8	15.66	33.0	0.03	<1	0.6	57.1	<10	<2



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**Project:** NA-16176  
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# CERTIFICATE OF ANALYSIS

# WHI16000233.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
070773	Soil	0.56	34.71	59.52	58.4	396	40.2	25.9	768	4.11	7.8	1.6	2.0	15.7	28.1	0.06	0.82	0.48	8	0.45	0.058
070774	Soil	0.36	33.22	34.61	60.9	170	38.7	22.2	419	3.93	6.8	1.1	1.8	15.9	39.9	0.04	0.64	0.44	8	0.68	0.052
070775	Soil	0.37	34.44	43.01	57.1	222	37.9	19.6	421	3.73	5.9	1.2	0.9	15.2	60.8	0.03	0.50	0.42	7	1.03	0.048
070776	Soil	0.58	36.60	40.79	74.3	163	42.0	22.2	515	3.99	9.0	1.5	2.4	16.1	41.0	0.05	0.80	0.48	7	0.75	0.060
070777	Soil	0.45	38.38	46.05	69.0	204	41.3	22.7	447	4.04	9.2	1.3	2.5	17.3	28.0	0.03	0.76	0.49	7	0.45	0.057
070778	Soil	0.45	38.33	42.40	74.5	171	39.7	21.6	469	4.20	14.1	2.3	3.2	15.1	21.7	0.05	1.19	0.53	8	0.32	0.055
070779	Soil	0.35	31.64	44.73	89.5	190	38.4	18.7	519	3.94	7.1	1.2	1.6	13.1	34.7	0.07	0.58	0.43	9	0.57	0.064
070780	Soil	0.41	33.70	38.55	90.0	113	37.3	21.5	662	3.92	5.9	1.1	1.2	12.5	25.3	0.06	0.36	0.40	9	0.48	0.049
070781	Soil	0.40	36.13	49.53	99.7	192	40.9	22.7	649	4.22	5.1	1.1	1.2	15.6	24.9	0.06	0.38	0.39	10	0.40	0.038
070782	Soil	0.39	35.27	37.61	101.0	105	42.0	23.6	456	4.20	4.5	1.1	0.6	16.2	27.4	0.06	0.36	0.47	10	0.44	0.057
070783	Soil	0.34	33.37	38.09	95.1	145	36.5	18.9	640	4.12	5.6	1.1	1.4	9.3	36.5	0.09	0.44	0.43	10	0.65	0.062
070784	Soil	0.39	30.63	36.88	86.4	108	30.4	17.6	760	3.83	6.6	1.3	1.7	6.5	62.4	0.11	0.48	0.40	10	0.60	0.074
070785	Soil	0.43	42.43	47.30	91.8	209	39.5	22.9	385	3.69	10.7	2.1	3.9	3.6	81.4	0.10	0.73	0.58	9	1.16	0.131
070786	Soil	0.51	35.86	37.08	97.5	99	39.1	19.3	630	3.82	6.8	1.2	0.6	10.1	30.4	0.09	0.52	0.35	11	0.41	0.057
070787	Soil	0.63	39.34	53.63	118.9	186	62.6	36.6	1633	4.25	8.0	1.8	17.6	15.6	55.7	0.39	0.64	0.49	8	0.58	0.074
070788	Soil	0.24	7.64	6.14	22.3	96	6.4	2.9	168	0.99	1.3	0.4	<0.2	0.3	4.0	0.04	0.09	0.10	7	0.03	0.042
070789	Soil	0.32	27.61	39.41	95.4	108	40.8	19.9	397	3.95	4.3	1.1	0.6	13.1	11.1	0.04	0.33	0.36	9	0.18	0.014
070790	Soil	0.48	13.37	17.30	60.9	219	15.3	6.3	305	2.31	3.1	0.7	<0.2	1.2	6.7	0.13	0.27	0.24	9	0.07	0.086
070791	Soil	0.54	21.95	32.26	76.5	160	22.9	8.6	310	3.46	4.8	0.9	2.4	3.5	9.6	0.07	0.47	0.35	14	0.10	0.083
070792	Soil	0.53	25.67	34.78	83.7	36	31.1	13.7	659	4.04	6.1	1.1	1.6	6.5	7.4	0.08	0.46	0.36	11	0.05	0.064
070793	Soil	1.35	128.95	142.72	103.8	190	50.2	68.9	2016	4.01	29.2	3.1	2.6	15.2	18.6	0.12	0.83	0.89	15	0.19	0.048
070794	Soil	0.51	72.81	38.79	83.8	127	46.5	29.3	590	4.26	10.8	2.8	2.5	19.0	18.2	0.04	0.53	0.48	10	0.25	0.049
070795	Soil	1.15	215.44	107.33	173.0	263	99.3	65.2	796	4.60	18.6	13.0	4.8	19.1	21.1	0.34	0.83	0.63	10	0.11	0.073
070796	Soil	0.61	83.10	60.17	119.8	245	50.7	39.6	997	4.20	15.0	1.6	2.8	25.5	22.7	0.11	0.78	0.48	10	0.49	0.043
070797	Soil	0.73	58.37	46.93	90.9	221	48.7	24.5	424	4.20	15.4	2.3	2.6	13.4	89.2	0.12	0.87	0.52	8	1.85	0.067
070798	Soil	0.78	62.73	43.17	100.4	148	45.8	24.4	567	4.29	14.2	2.7	3.4	17.1	21.5	0.12	0.84	0.54	10	0.20	0.057
070799	Soil	0.81	59.44	49.56	92.6	235	41.3	21.8	557	3.99	13.2	3.3	3.4	12.3	41.2	0.11	0.84	0.48	11	0.63	0.068
070800	Soil	0.48	46.58	37.16	88.2	172	34.2	18.5	499	3.51	11.2	2.7	2.7	8.0	43.9	0.10	0.61	0.41	9	0.54	0.073
069151	Soil	0.58	21.63	27.46	51.1	147	19.2	8.6	884	3.03	8.5	1.8	0.6	1.7	55.2	0.20	0.61	0.22	9	0.97	0.112
069152	Soil	0.51	42.11	30.56	90.7	110	41.7	16.4	505	4.12	13.4	1.9	3.1	11.5	32.1	0.06	0.82	0.39	11	0.51	0.055



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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
070773	Soil	19.4	20.7	0.73	30.6	0.001	1	1.65	0.003	0.03	<0.1	4.9	0.04	0.03	53	0.4	0.03	4.0	0.65	<0.1	0.18
070774	Soil	17.1	19.8	0.74	19.5	0.001	<1	1.50	0.002	0.02	<0.1	2.9	0.03	0.02	26	0.2	0.03	3.8	0.39	<0.1	0.12
070775	Soil	13.0	18.0	0.67	15.7	<0.001	<1	1.36	0.001	0.02	<0.1	2.7	0.03	0.03	31	0.2	0.03	3.5	0.40	<0.1	0.13
070776	Soil	18.8	20.0	0.68	20.2	<0.001	1	1.42	0.002	0.03	<0.1	3.0	0.03	0.03	42	0.3	0.03	3.6	0.44	<0.1	0.13
070777	Soil	18.4	19.1	0.69	20.2	<0.001	<1	1.47	0.002	0.03	<0.1	2.8	0.03	0.03	30	0.2	0.03	3.7	0.57	<0.1	0.12
070778	Soil	15.2	20.3	0.70	32.8	<0.001	<1	1.71	0.002	0.03	<0.1	2.8	0.04	<0.02	33	0.2	0.03	4.0	0.69	<0.1	0.14
070779	Soil	10.2	22.0	0.73	29.7	<0.001	<1	1.71	0.002	0.02	<0.1	3.5	0.03	0.03	22	0.3	0.02	4.4	0.52	<0.1	0.23
070780	Soil	10.7	21.9	0.70	22.7	<0.001	<1	1.68	0.002	0.03	<0.1	3.4	0.03	0.03	27	0.3	0.02	4.3	0.53	<0.1	0.20
070781	Soil	11.5	24.1	0.74	26.7	<0.001	<1	1.84	0.002	0.03	<0.1	3.6	0.03	<0.02	35	0.2	0.03	4.8	0.70	<0.1	0.16
070782	Soil	8.9	24.7	0.78	21.1	<0.001	<1	1.82	0.002	0.03	<0.1	3.1	0.03	<0.02	19	0.2	0.02	4.9	0.62	<0.1	0.14
070783	Soil	8.7	22.2	0.66	30.6	0.001	1	1.72	0.003	0.03	<0.1	3.2	0.03	0.03	28	0.2	0.03	4.6	0.49	<0.1	0.15
070784	Soil	9.3	21.4	0.61	39.8	0.002	1	1.79	0.003	0.03	<0.1	2.4	0.03	0.04	20	0.3	0.03	4.4	0.64	<0.1	0.22
070785	Soil	8.6	20.2	0.72	18.1	0.001	2	1.50	0.003	0.06	<0.1	1.5	0.15	0.09	28	0.4	0.04	4.0	0.89	<0.1	0.13
070786	Soil	15.5	25.1	0.72	30.5	0.001	<1	1.85	0.003	0.03	<0.1	2.5	0.03	0.02	22	0.2	0.03	4.8	0.70	<0.1	0.16
070787	Soil	24.1	20.9	0.68	43.9	0.001	<1	1.69	0.005	0.03	<0.1	4.8	0.05	0.03	65	0.2	0.03	4.0	0.89	<0.1	0.11
070788	Soil	3.6	6.6	0.13	23.6	0.004	<1	0.80	0.017	0.02	<0.1	0.3	0.03	0.03	19	0.2	<0.02	2.3	0.32	<0.1	0.03
070789	Soil	22.7	20.8	0.75	42.5	<0.001	<1	1.83	0.002	0.03	<0.1	3.0	0.05	<0.02	41	0.2	0.02	4.3	0.96	<0.1	0.10
070790	Soil	7.6	14.1	0.29	28.7	0.002	<1	1.13	0.008	0.02	<0.1	0.5	0.04	0.05	29	0.2	0.02	3.6	0.55	<0.1	0.06
070791	Soil	10.9	18.3	0.44	45.4	0.003	<1	1.64	0.003	0.02	<0.1	0.9	0.05	0.04	21	0.3	0.03	5.1	0.69	<0.1	0.09
070792	Soil	11.3	17.9	0.50	34.0	0.002	<1	1.66	0.003	0.02	<0.1	1.8	0.05	0.02	18	0.2	<0.02	4.1	0.66	<0.1	0.16
070793	Soil	9.3	27.0	0.91	38.0	<0.001	<1	2.00	0.002	0.02	<0.1	2.0	0.07	<0.02	24	0.2	0.14	5.5	1.06	<0.1	0.06
070794	Soil	6.3	23.0	0.78	22.5	<0.001	<1	1.88	0.003	0.03	<0.1	1.9	0.02	<0.02	18	0.2	0.05	4.9	1.19	<0.1	0.12
070795	Soil	7.9	18.2	0.54	33.3	<0.001	<1	1.86	0.005	0.04	<0.1	2.1	0.07	0.06	21	0.5	0.08	3.8	2.41	<0.1	0.10
070796	Soil	8.6	24.3	0.81	22.3	<0.001	<1	1.90	0.003	0.04	<0.1	2.5	0.04	<0.02	42	0.2	0.05	5.0	1.30	<0.1	0.13
070797	Soil	11.0	15.2	0.51	28.9	<0.001	<1	1.28	0.004	0.04	<0.1	2.8	0.05	0.04	36	0.4	0.09	3.2	0.70	<0.1	0.10
070798	Soil	10.2	18.7	0.60	35.2	0.002	<1	1.67	0.005	0.03	<0.1	2.6	0.04	0.02	22	0.2	0.07	4.1	0.79	<0.1	0.09
070799	Soil	11.5	17.9	0.55	40.2	0.002	<1	1.68	0.008	0.04	<0.1	3.0	0.05	0.04	36	0.4	0.08	3.8	0.85	<0.1	0.14
070800	Soil	10.2	15.1	0.46	52.2	0.001	<1	1.62	0.009	0.04	<0.1	2.8	0.05	0.04	40	0.5	0.07	3.9	0.86	<0.1	0.17
069151	Soil	32.1	10.2	0.19	50.8	0.004	1	1.18	0.011	0.02	<0.1	2.5	0.07	0.09	74	0.6	0.05	2.1	0.50	<0.1	0.05
069152	Soil	19.7	21.0	0.61	20.7	<0.001	<1	1.55	0.003	0.03	<0.1	3.5	0.04	<0.02	40	0.3	0.06	4.1	0.62	<0.1	0.11



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**Project:** NA-16176  
**Report Date:** September 17, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000233.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
070773	Soil	0.05	2.4	26.7	<0.05	6.9	21.15	41.4	0.05	<1	0.7	56.3	<10	<2
070774	Soil	0.03	1.4	1.1	<0.05	7.1	9.59	35.5	<0.02	<1	0.5	57.8	<10	<2
070775	Soil	<0.02	1.2	14.0	<0.05	8.3	8.40	27.7	0.03	<1	0.3	54.9	<10	<2
070776	Soil	<0.02	1.6	2.4	<0.05	6.0	10.01	39.0	0.02	<1	0.5	52.5	<10	<2
070777	Soil	<0.02	1.7	7.7	<0.05	7.3	9.24	38.2	0.03	<1	0.4	53.1	<10	<2
070778	Soil	0.03	3.0	1.3	<0.05	5.0	9.27	32.0	0.02	<1	0.6	53.0	<10	<2
070779	Soil	0.03	1.9	13.9	<0.05	8.4	11.14	21.3	0.03	<1	0.6	58.5	<10	<2
070780	Soil	0.03	2.0	1.0	<0.05	8.4	12.56	22.6	0.02	<1	0.6	55.8	<10	<2
070781	Soil	0.02	2.0	13.5	<0.05	7.9	12.13	24.5	0.03	<1	0.7	58.1	<10	<2
070782	Soil	<0.02	1.9	1.1	<0.05	7.5	8.27	18.6	<0.02	<1	0.6	63.4	<10	<2
070783	Soil	0.06	2.5	4.4	<0.05	5.0	10.51	19.0	0.02	<1	0.5	55.3	<10	<2
070784	Soil	0.09	3.2	0.6	<0.05	6.1	10.45	21.4	0.02	<1	0.7	54.2	<10	<2
070785	Soil	0.03	10.0	9.4	<0.05	4.2	7.42	18.8	0.02	<1	0.5	51.2	<10	<2
070786	Soil	0.06	2.7	1.6	<0.05	5.9	11.11	30.4	<0.02	<1	0.5	58.3	<10	<2
070787	Soil	0.04	2.6	9.1	<0.05	6.2	22.52	47.8	0.04	<1	0.7	59.1	<10	<2
070788	Soil	0.11	1.6	0.4	<0.05	0.9	1.28	7.1	<0.02	<1	0.1	10.3	<10	<2
070789	Soil	<0.02	3.9	4.6	<0.05	4.0	8.66	49.4	<0.02	<1	0.6	51.0	<10	<2
070790	Soil	0.16	3.9	1.4	<0.05	1.7	2.31	15.8	<0.02	<1	0.3	24.1	<10	<2
070791	Soil	0.22	4.3	12.4	<0.05	3.3	2.90	23.2	0.04	<1	0.4	44.2	<10	<2
070792	Soil	0.11	4.7	0.8	<0.05	5.3	5.61	26.4	0.03	<1	0.4	47.2	<10	<2
070793	Soil	<0.02	1.9	9.2	<0.05	5.1	6.79	18.2	0.03	<1	0.8	83.9	<10	<2
070794	Soil	<0.02	1.5	1.2	<0.05	7.8	4.43	13.5	<0.02	<1	0.6	59.6	<10	<2
070795	Soil	0.05	4.2	6.2	<0.05	4.8	12.46	18.7	0.03	<1	1.7	53.8	<10	<2
070796	Soil	<0.02	2.3	1.5	<0.05	10.6	6.79	18.7	0.03	<1	1.0	61.5	<10	<2
070797	Soil	0.03	2.5	5.3	<0.05	6.6	6.86	22.3	0.03	<1	0.5	36.3	<10	<2
070798	Soil	0.03	2.2	0.7	<0.05	6.7	6.52	21.5	0.03	<1	0.5	48.1	<10	<2
070799	Soil	0.13	3.1	7.4	<0.05	5.9	8.73	24.2	0.03	<1	0.4	41.8	<10	<2
070800	Soil	0.18	4.0	0.4	<0.05	5.7	8.26	22.4	0.03	<1	0.5	34.6	<10	<2
069151	Soil	0.29	2.5	5.8	<0.05	1.7	17.39	86.4	0.05	<1	0.3	12.3	<10	<2
069152	Soil	0.05	2.3	1.2	<0.05	4.6	10.42	39.5	0.03	<1	0.4	44.0	<10	<2



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Project: NA-16176  
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# CERTIFICATE OF ANALYSIS

# WHI16000233.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
069153	Soil	0.53	44.15	34.00	83.5	175	34.5	16.3	521	3.84	15.0	8.7	2.4	7.6	32.1	0.08	0.59	0.43	11	0.52	0.063
069154	Soil	0.40	28.72	20.98	90.3	73	33.3	10.2	351	3.34	9.8	2.0	1.6	8.1	19.5	0.07	0.38	0.33	11	0.35	0.047
069155	Soil	0.44	21.26	22.67	79.4	63	31.6	8.6	226	3.56	22.8	3.8	2.7	8.0	15.7	0.06	0.43	0.41	12	0.24	0.058
069156	Soil	0.90	22.27	15.33	50.7	27	23.3	8.1	482	3.51	49.4	0.7	4.3	0.9	3.8	0.07	0.73	0.39	28	0.02	0.088
069157	Soil	0.66	50.18	26.01	78.5	107	46.2	18.3	709	3.94	37.8	0.5	11.7	7.9	8.8	0.04	0.86	0.43	16	0.10	0.044
069158	Soil	0.64	43.02	22.09	75.7	77	44.5	17.8	722	3.80	40.3	0.4	10.5	6.7	12.3	0.07	0.87	0.38	16	0.23	0.055
069159	Soil	0.32	44.72	24.53	106.7	58	47.2	16.6	634	4.88	26.1	1.2	7.5	9.5	5.7	0.02	0.32	0.46	17	0.11	0.039
069160	Soil	0.39	48.46	23.14	99.0	36	44.0	16.7	640	4.54	11.9	1.2	2.1	8.7	6.9	0.02	0.20	0.42	16	0.10	0.035
069161	Soil	0.55	58.51	39.09	100.9	87	45.4	19.5	657	4.51	12.9	1.3	1.7	9.3	7.0	0.03	0.29	0.48	15	0.13	0.039
069162	Soil	0.69	47.78	26.90	96.2	61	50.6	18.8	690	4.64	17.8	1.2	2.7	7.9	6.8	0.06	0.32	0.40	16	0.15	0.046
069163	Soil	0.17	34.37	25.75	101.4	75	48.1	14.3	566	4.88	4.6	1.1	0.8	8.2	4.6	0.02	0.09	0.35	16	0.07	0.031
069164	Soil	0.75	34.74	38.98	84.2	97	39.7	12.8	493	4.99	46.6	0.8	4.9	6.8	4.1	0.06	0.90	0.59	17	0.03	0.049
069165	Soil	0.64	33.90	29.93	82.2	102	39.9	11.6	471	5.20	33.7	0.8	2.0	7.9	3.0	0.04	0.58	0.64	17	0.03	0.043
069166	Soil	8.09	30.52	41.81	76.0	97	44.9	20.0	1822	5.17	5.3	0.4	0.6	3.9	2.7	0.06	0.23	0.61	20	0.05	0.104
069167	Soil	1.06	58.44	93.72	90.0	40	53.3	26.8	2889	5.38	8.1	0.5	<0.2	6.4	3.2	0.06	0.37	0.84	19	0.07	0.071
069168	Soil	0.93	49.41	48.59	75.4	67	39.9	20.3	1867	3.96	15.1	0.9	0.9	3.9	4.4	0.03	0.68	0.59	16	0.06	0.069
069169	Soil	1.39	78.83	52.19	86.4	76	56.2	36.3	3525	5.03	59.7	1.7	3.3	6.1	6.0	0.09	2.65	0.90	13	0.10	0.060
069170	Soil	1.45	82.73	60.18	98.4	87	47.4	33.4	2211	5.97	52.7	2.2	6.2	6.4	2.9	0.04	2.90	0.78	14	0.01	0.072



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**Project:** NA-16176  
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# CERTIFICATE OF ANALYSIS

WHI16000233.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
069153	Soil	9.8	18.9	0.57	47.4	0.001	<1	1.81	0.007	0.03	<0.1	2.4	0.04	0.05	28	0.6	0.06	4.6	0.83	<0.1	0.19
069154	Soil	13.0	20.8	0.74	35.4	<0.001	<1	1.80	0.003	0.04	<0.1	1.5	0.03	0.03	15	0.2	0.05	4.7	0.48	<0.1	0.08
069155	Soil	13.8	23.7	0.69	68.1	0.001	<1	1.81	0.002	0.04	<0.1	2.1	0.04	0.02	6	<0.1	0.04	4.8	0.84	<0.1	0.11
069156	Soil	16.1	26.2	0.48	42.3	0.004	<1	1.38	0.002	0.03	<0.1	0.8	0.07	0.05	24	0.3	0.07	6.2	1.04	<0.1	<0.02
069157	Soil	26.4	30.6	1.18	49.0	0.001	<1	2.15	0.002	0.06	<0.1	3.0	0.03	<0.02	7	<0.1	0.09	5.5	0.68	<0.1	0.05
069158	Soil	21.7	32.2	1.19	44.1	<0.001	<1	2.09	0.003	0.06	<0.1	3.1	0.03	<0.02	<5	0.1	0.08	5.2	0.63	<0.1	0.04
069159	Soil	19.1	34.7	1.21	23.0	<0.001	<1	2.71	0.005	0.04	<0.1	2.6	<0.02	<0.02	6	<0.1	0.07	7.6	0.55	<0.1	0.11
069160	Soil	17.1	33.2	1.18	25.1	<0.001	<1	2.62	0.006	0.06	<0.1	2.4	<0.02	<0.02	<5	<0.1	0.06	7.4	0.65	<0.1	0.07
069161	Soil	16.9	31.8	1.15	23.7	0.001	2	2.54	0.005	0.05	<0.1	2.8	<0.02	<0.02	<5	<0.1	0.08	6.8	0.89	<0.1	0.16
069162	Soil	15.6	33.0	1.14	19.7	<0.001	<1	2.44	0.004	0.03	<0.1	3.0	<0.02	<0.02	6	<0.1	0.06	6.8	0.49	<0.1	0.09
069163	Soil	17.1	34.8	1.22	21.9	<0.001	<1	2.83	0.004	0.04	<0.1	2.3	<0.02	<0.02	<5	<0.1	0.04	7.8	0.55	<0.1	0.12
069164	Soil	20.1	31.5	1.00	27.1	0.001	<1	2.38	0.003	0.03	<0.1	1.7	0.05	0.02	23	0.1	0.10	6.9	1.86	<0.1	0.13
069165	Soil	24.6	32.8	1.03	20.7	0.001	<1	2.39	0.003	0.03	<0.1	1.7	0.04	<0.02	22	0.1	0.08	8.0	2.09	<0.1	0.10
069166	Soil	10.5	39.4	1.12	12.6	0.003	<1	2.67	0.003	0.02	<0.1	1.7	0.02	0.03	18	0.3	0.13	7.5	1.65	<0.1	0.12
069167	Soil	12.7	40.5	1.33	14.7	0.002	<1	3.02	0.002	0.02	<0.1	2.3	0.02	<0.02	28	0.2	0.18	7.3	2.19	<0.1	0.16
069168	Soil	15.2	28.6	0.99	19.4	0.004	<1	2.17	0.008	0.02	<0.1	1.9	0.03	<0.02	17	0.2	0.13	6.1	1.68	<0.1	0.11
069169	Soil	13.5	25.4	1.35	11.0	<0.001	<1	2.24	0.002	0.02	<0.1	2.6	0.06	<0.02	22	0.1	0.28	5.6	0.91	0.1	0.13
069170	Soil	16.0	26.4	1.22	15.7	<0.001	<1	2.35	0.002	0.02	<0.1	2.7	0.05	0.02	30	0.3	0.22	6.2	1.67	<0.1	0.14



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# CERTIFICATE OF ANALYSIS

WHI16000233.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		MDL	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
069153	Soil	0.19	4.0	4.8	<0.05	6.7	6.93	19.9	0.03	<1	0.5	43.4	<10	<2
069154	Soil	0.06	4.8	1.0	<0.05	2.7	3.61	25.8	0.02	<1	0.3	57.7	<10	<2
069155	Soil	0.08	4.7	4.1	<0.05	3.4	4.96	28.3	0.03	<1	0.4	54.3	<10	<2
069156	Soil	0.24	4.8	1.2	<0.05	0.4	2.56	33.9	<0.02	<1	0.5	30.7	<10	<2
069157	Soil	<0.02	3.9	4.7	<0.05	2.4	5.57	56.7	<0.02	<1	0.5	73.2	<10	<2
069158	Soil	0.02	3.6	1.1	<0.05	2.2	5.73	48.2	0.02	<1	0.5	64.7	<10	<2
069159	Soil	<0.02	1.9	2.6	<0.05	5.6	3.18	38.2	0.02	<1	0.4	92.2	<10	<2
069160	Soil	<0.02	2.3	1.1	<0.05	4.4	2.88	34.7	<0.02	<1	0.4	91.1	<10	<2
069161	Soil	<0.02	2.4	5.7	<0.05	9.5	4.09	34.4	0.02	<1	0.6	87.7	<10	<2
069162	Soil	<0.02	1.6	0.8	<0.05	4.8	5.11	31.7	0.02	<1	0.5	87.5	<10	<2
069163	Soil	<0.02	2.3	9.3	<0.05	4.1	2.63	36.3	<0.02	<1	0.2	98.6	<10	<2
069164	Soil	0.11	4.5	0.7	<0.05	4.3	2.02	39.9	0.02	<1	0.4	82.6	<10	<2
069165	Soil	0.08	4.1	0.5	<0.05	3.8	1.91	53.8	0.02	<1	0.3	80.8	<10	<2
069166	Soil	0.12	2.5	12.3	<0.05	5.0	1.79	21.3	0.03	<1	0.2	88.8	<10	<2
069167	Soil	0.06	2.1	0.8	<0.05	6.6	2.44	26.9	0.03	<1	0.5	106.3	<10	<2
069168	Soil	0.12	2.9	5.2	<0.05	4.6	2.86	31.5	0.02	<1	0.4	74.5	<10	<2
069169	Soil	<0.02	1.0	0.8	<0.05	8.9	5.20	28.3	0.03	<1	0.4	102.0	<10	<2
069170	Soil	<0.02	2.1	1.7	<0.05	6.2	3.31	32.6	0.03	<1	0.5	93.5	<10	<2



Bureau Veritas Commodities Canada Ltd.  
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# QUALITY CONTROL REPORT

# WHI16000233.1

Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
069711	Soil	2.29	39.65	30.16	92.6	86	35.1	16.9	535	3.87	244.7	2.2	25.4	6.2	8.7	0.11	1.17	0.43	21	0.05	0.072
REP 069711	QC	2.34	41.15	29.74	95.9	91	36.5	17.0	542	3.97	248.4	2.3	33.4	6.4	8.8	0.13	1.20	0.38	22	0.06	0.069
069747	Soil	0.30	16.15	12.88	60.1	28	24.4	4.0	267	2.75	20.3	0.6	2.8	5.4	6.3	0.01	0.17	0.23	13	0.04	0.038
REP 069747	QC	0.30	16.39	12.88	59.3	28	24.1	4.0	265	2.76	20.4	0.6	2.9	5.3	6.1	0.01	0.16	0.23	13	0.03	0.037
069973	Soil	0.58	29.58	19.93	86.9	103	30.2	9.8	292	3.18	24.1	15.1	0.9	7.5	25.3	0.05	0.34	0.35	11	0.26	0.054
REP 069973	QC	0.57	29.29	19.22	87.0	106	31.1	9.8	294	3.17	23.3	14.6	0.5	7.4	24.7	0.06	0.32	0.34	12	0.26	0.053
070859	Soil	0.44	36.31	22.06	119.6	30	53.1	12.6	674	5.75	42.3	1.8	3.4	9.9	4.2	0.06	0.54	0.55	24	0.03	0.035
REP 070859	QC	0.38	36.57	21.77	112.2	32	52.3	12.0	657	5.69	41.7	1.8	3.1	9.9	4.2	0.07	0.47	0.54	24	0.03	0.032
070895	Soil	0.41	42.56	149.17	256.7	561	42.4	19.9	491	4.01	183.8	1.7	26.8	16.1	126.0	0.16	4.41	0.50	6	2.39	0.052
REP 070895	QC	0.41	42.58	149.88	256.9	573	43.5	20.5	485	4.05	189.1	1.8	27.5	16.7	128.0	0.19	4.62	0.50	6	2.39	0.052
070931	Soil	0.51	44.63	28.84	44.5	200	52.9	22.8	435	4.77	20.7	2.3	4.3	13.3	22.2	0.04	1.03	0.37	5	0.30	0.044
REP 070931	QC	0.51	45.03	28.89	43.1	198	50.8	22.5	431	4.83	20.6	2.2	4.0	13.4	22.3	0.04	0.99	0.37	5	0.30	0.044
069107	Soil	0.37	47.20	34.94	86.3	99	36.2	14.3	307	3.65	12.9	1.5	2.0	11.3	22.1	0.04	0.51	0.43	11	0.35	0.050
REP 069107	QC	0.33	46.90	35.81	88.5	103	37.0	14.8	308	3.69	13.3	1.5	2.0	11.0	22.7	0.02	0.57	0.43	11	0.35	0.047
070765	Soil	0.84	49.71	45.30	84.1	49	35.0	19.1	808	3.93	13.7	1.1	1.9	6.0	13.9	0.10	0.50	0.60	25	0.17	0.105
REP 070765	QC	0.85	51.49	46.76	84.3	56	35.9	20.2	816	3.98	13.6	1.1	1.7	6.3	14.1	0.10	0.52	0.62	25	0.17	0.106
069151	Soil	0.58	21.63	27.46	51.1	147	19.2	8.6	884	3.03	8.5	1.8	0.6	1.7	55.2	0.20	0.61	0.22	9	0.97	0.112
REP 069151	QC	0.58	21.51	26.66	51.2	136	19.0	8.4	916	3.00	8.6	1.8	1.0	1.7	54.8	0.19	0.63	0.22	9	0.98	0.109
Reference Materials																					
STD DS10	Standard	14.73	146.63	134.56	355.1	1788	69.2	12.7	833	2.67	44.7	2.3	70.1	7.2	59.7	2.41	8.56	10.08	43	1.04	0.076
STD DS10	Standard	16.26	159.28	157.91	417.1	1944	79.6	12.0	905	2.81	41.4	2.5	73.4	6.9	67.5	2.27	8.80	10.67	43	1.08	0.070
STD DS10	Standard	15.14	135.20	151.77	347.9	1809	76.2	12.0	898	2.68	41.7	2.5	108.4	6.9	67.9	2.34	8.78	11.16	41	1.05	0.070
STD DS10	Standard	14.17	152.80	137.80	356.5	1788	75.7	12.7	813	2.69	44.4	2.4	95.6	6.8	64.2	2.34	9.36	10.97	42	1.04	0.073
STD DS10	Standard	15.55	151.43	151.83	346.2	1965	74.8	11.2	866	2.79	39.7	2.3	88.3	6.4	66.9	2.24	8.35	10.76	44	1.07	0.067
STD DS10	Standard	14.67	152.26	149.45	345.4	1870	74.6	11.3	884	2.75	40.1	2.2	77.9	6.1	65.5	2.23	8.17	10.40	44	1.06	0.070
STD DS10	Standard	14.72	134.57	153.89	341.0	1718	74.8	11.7	846	2.70	40.3	2.4	77.5	6.9	64.7	2.26	8.32	10.81	41	1.04	0.069
STD DS10	Standard	14.81	151.54	150.12	362.9	1884	76.0	12.6	884	2.78	45.0	2.8	77.5	7.8	70.9	2.48	9.96	13.02	44	1.08	0.073
STD DS10	Standard	15.56	138.39	158.40	362.7	1794	78.2	13.7	894	2.76	40.9	2.4	76.3	6.7	69.6	2.30	8.55	11.06	43	1.07	0.071



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
Pulp Duplicates																					
069711	Soil	23.6	26.4	0.66	62.1	0.004	<1	1.97	0.003	0.07	0.1	2.4	0.08	<0.02	<5	0.2	0.04	5.0	2.30	<0.1	0.03
REP 069711	QC	27.1	26.3	0.68	60.3	0.006	<1	2.02	0.004	0.07	0.1	2.7	0.08	<0.02	<5	0.4	0.03	4.9	2.41	<0.1	0.09
069747	Soil	17.0	17.6	0.66	34.3	0.002	<1	1.79	0.010	0.04	<0.1	1.1	0.04	<0.02	7	0.2	0.02	5.1	0.56	<0.1	0.04
REP 069747	QC	16.6	18.4	0.66	33.7	0.002	<1	1.80	0.007	0.04	<0.1	1.0	0.04	<0.02	7	0.2	0.02	5.1	0.55	<0.1	0.05
069973	Soil	13.2	23.1	0.60	42.1	0.004	2	1.78	0.008	0.06	<0.1	1.6	0.04	0.04	24	0.6	0.02	5.1	0.64	<0.1	0.17
REP 069973	QC	13.1	23.5	0.61	43.1	0.004	2	1.80	0.007	0.06	<0.1	1.6	0.03	0.04	20	0.7	<0.02	4.9	0.65	<0.1	0.15
070859	Soil	5.3	46.4	1.29	18.5	0.002	<1	3.19	0.004	0.02	<0.1	2.8	0.02	<0.02	7	0.3	0.05	9.4	1.49	<0.1	0.09
REP 070859	QC	5.2	45.4	1.28	19.4	0.002	<1	3.18	0.004	0.02	<0.1	2.6	0.02	<0.02	14	0.4	0.08	8.9	1.48	<0.1	0.11
070895	Soil	10.7	11.8	0.52	21.8	<0.001	<1	1.26	0.002	0.04	<0.1	2.7	0.04	0.05	37	0.2	0.03	3.0	0.69	<0.1	0.16
REP 070895	QC	12.2	12.3	0.54	22.4	<0.001	<1	1.32	0.002	0.04	<0.1	2.7	0.04	0.05	40	0.3	0.03	3.1	0.72	<0.1	0.19
070931	Soil	11.4	7.4	0.31	24.6	<0.001	<1	0.95	0.002	0.04	<0.1	2.8	0.05	0.07	41	0.3	0.07	2.0	0.71	<0.1	0.11
REP 070931	QC	11.0	7.4	0.30	24.1	<0.001	<1	0.95	0.002	0.04	<0.1	2.9	0.05	0.07	36	0.3	0.05	1.9	0.70	<0.1	0.13
069107	Soil	11.2	24.3	0.69	30.4	0.001	<1	1.83	0.003	0.03	<0.1	2.2	<0.02	0.02	28	0.1	0.07	4.3	0.46	<0.1	0.10
REP 069107	QC	11.1	25.1	0.70	30.1	0.001	<1	1.81	0.004	0.02	<0.1	2.0	<0.02	0.02	16	0.2	0.03	4.7	0.43	0.1	0.11
070765	Soil	14.8	30.8	0.75	37.7	0.010	<1	1.97	0.003	0.03	0.1	1.6	0.05	0.02	23	0.2	0.10	5.7	0.96	<0.1	0.03
REP 070765	QC	14.0	30.9	0.75	37.9	0.010	<1	1.97	0.003	0.03	0.1	1.7	0.05	0.02	20	0.3	0.09	5.6	0.94	<0.1	0.04
069151	Soil	32.1	10.2	0.19	50.8	0.004	1	1.18	0.011	0.02	<0.1	2.5	0.07	0.09	74	0.6	0.05	2.1	0.50	<0.1	0.05
REP 069151	QC	32.1	10.1	0.18	52.1	0.004	2	1.18	0.012	0.02	<0.1	2.4	0.06	0.09	79	0.5	0.04	2.2	0.49	<0.1	0.05
Reference Materials																					
STD DS10	Standard	16.8	54.3	0.77	356.1	0.069	6	1.06	0.071	0.34	3.3	3.2	4.93	0.27	271	2.3	4.83	4.3	2.73	<0.1	0.04
STD DS10	Standard	16.0	50.6	0.80	375.4	0.086	6	1.11	0.070	0.35	3.4	3.0	5.40	0.27	290	2.4	5.22	4.8	2.54	<0.1	0.05
STD DS10	Standard	16.2	51.2	0.76	370.5	0.071	8	1.02	0.068	0.33	3.4	3.0	5.33	0.27	280	2.4	5.18	4.5	2.86	<0.1	0.06
STD DS10	Standard	16.2	56.2	0.76	333.3	0.077	6	1.03	0.068	0.33	3.3	2.9	4.88	0.27	253	2.4	4.99	4.5	2.58	0.2	0.06
STD DS10	Standard	14.9	46.9	0.78	359.4	0.066	8	1.06	0.071	0.34	3.6	3.2	5.28	0.28	319	2.6	5.03	4.3	2.43	<0.1	0.05
STD DS10	Standard	14.1	46.1	0.78	357.5	0.064	7	1.06	0.071	0.33	3.4	3.0	5.24	0.28	266	2.4	4.95	4.3	2.33	<0.1	0.05
STD DS10	Standard	16.7	55.9	0.76	339.6	0.072	7	1.01	0.068	0.33	3.6	2.9	5.13	0.26	283	2.4	5.02	4.4	2.74	<0.1	0.08
STD DS10	Standard	18.6	56.0	0.77	360.6	0.082	6	1.06	0.070	0.33	3.4	2.7	5.05	0.28	285	2.2	4.89	4.2	2.66	<0.1	0.08
STD DS10	Standard	16.4	58.7	0.79	370.9	0.072	7	1.05	0.071	0.34	3.5	3.0	5.31	0.28	301	2.5	5.17	4.5	2.92	<0.1	0.06



# QUALITY CONTROL REPORT

WHI16000233.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates														
069711	Soil	0.22	9.3	0.5	<0.05	2.6	5.31	47.0	0.02	<1	0.6	43.8	<10	<2
REP 069711	QC	0.24	9.6	0.6	<0.05	2.5	5.52	53.7	<0.02	<1	0.3	40.9	<10	<2
069747	Soil	0.12	5.1	0.1	<0.05	1.7	1.60	38.5	<0.02	<1	0.2	41.1	<10	<2
REP 069747	QC	0.12	5.1	0.2	<0.05	1.6	1.51	37.4	<0.02	<1	0.2	39.5	<10	<2
069973	Soil	0.18	4.9	0.5	<0.05	5.3	4.58	25.8	<0.02	<1	0.4	57.8	<10	<2
REP 069973	QC	0.16	4.9	0.5	<0.05	5.2	4.56	26.1	<0.02	<1	0.3	56.1	<10	<2
070859	Soil	0.08	2.9	0.2	<0.05	4.8	1.60	11.4	0.03	<1	0.2	101.3	<10	<2
REP 070859	QC	0.08	2.9	0.2	<0.05	4.5	1.57	11.0	<0.02	2	<0.1	100.2	<10	<2
070895	Soil	<0.02	2.1	0.4	<0.05	10.8	7.45	22.2	0.03	<1	0.6	34.6	<10	<2
REP 070895	QC	<0.02	2.2	0.4	<0.05	11.7	7.66	25.6	0.03	<1	0.7	35.5	<10	<2
070931	Soil	<0.02	2.0	0.4	<0.05	10.4	8.54	23.9	0.03	<1	0.4	16.4	<10	<2
REP 070931	QC	0.02	2.0	0.4	<0.05	10.9	8.40	23.1	<0.02	<1	0.5	16.3	<10	<2
069107	Soil	0.05	2.4	0.8	<0.05	5.3	6.79	20.5	<0.02	<1	0.5	57.0	<10	<2
REP 069107	QC	0.05	2.4	1.0	<0.05	5.0	6.99	20.0	0.04	<1	0.5	60.1	<10	<2
070765	Soil	0.28	3.5	4.9	<0.05	1.3	4.49	31.7	0.02	<1	0.3	60.4	<10	<2
REP 070765	QC	0.31	3.4	5.9	<0.05	1.6	4.52	29.7	0.03	<1	0.5	64.1	<10	<2
069151	Soil	0.29	2.5	5.8	<0.05	1.7	17.39	86.4	0.05	<1	0.3	12.3	<10	<2
REP 069151	QC	0.27	2.5	4.9	<0.05	1.7	17.47	86.6	0.05	<1	0.5	11.9	<10	<2
Reference Materials														
STD DS10	Standard	1.70	28.7	1.6	<0.05	2.7	7.72	35.9	0.25	49	0.5	18.9	111	173
STD DS10	Standard	1.41	25.2	1.6	<0.05	2.4	7.24	38.5	0.22	47	0.6	17.1	125	191
STD DS10	Standard	1.59	26.7	1.5	<0.05	2.4	7.45	35.4	0.21	53	0.7	20.4	128	190
STD DS10	Standard	1.43	26.9	1.4	<0.05	2.4	7.63	33.8	0.22	52	0.6	19.1	99	163
STD DS10	Standard	1.65	25.2	1.4	<0.05	2.4	6.99	36.9	0.21	49	0.6	18.3	127	189
STD DS10	Standard	1.55	24.6	1.4	<0.05	2.2	6.86	35.0	0.21	49	0.6	18.2	123	192
STD DS10	Standard	1.67	25.1	1.4	<0.05	2.5	7.71	35.5	0.22	46	0.7	19.9	129	185
STD DS10	Standard	1.65	28.1	1.5	<0.05	2.7	8.04	37.2	0.20	52	0.9	19.9	106	203
STD DS10	Standard	1.61	26.8	1.5	<0.05	2.4	8.25	36.1	0.22	52	0.8	20.5	127	192



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Project: NA-16176

Report Date: September 17, 2016

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# QUALITY CONTROL REPORT

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		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
STD OXC129	Standard	1.28	26.42	5.73	39.9	13	74.9	19.9	398	2.95	1.6	0.6	194.9	1.8	189.2	0.02	0.04	<0.02	50	0.68	0.097
STD OXC129	Standard	1.38	24.28	5.57	42.3	13	78.9	18.4	424	3.01	0.6	0.6	205.3	1.7	186.4	0.02	0.03	<0.02	51	0.69	0.090
STD OXC129	Standard	1.27	23.59	5.81	39.6	13	77.4	18.0	407	2.96	0.5	0.6	194.0	1.6	177.9	0.01	0.03	<0.02	49	0.63	0.091
STD OXC129	Standard	1.21	27.23	5.57	39.5	17	79.4	20.5	386	2.98	0.8	0.6	188.9	1.6	173.2	0.05	0.02	<0.02	49	0.62	0.101
STD OXC129	Standard	1.31	22.41	5.33	39.9	12	78.9	17.4	417	3.09	0.6	0.6	199.1	1.6	188.6	0.01	0.03	<0.02	53	0.68	0.094
STD OXC129	Standard	1.31	23.19	5.30	40.6	13	79.6	17.8	424	3.04	0.4	0.7	198.1	1.5	184.8	<0.01	0.03	<0.02	53	0.64	0.093
STD OXC129	Standard	1.31	23.87	5.95	39.7	11	77.4	18.4	414	2.95	0.5	0.6	188.8	1.6	183.4	0.02	0.03	<0.02	50	0.69	0.093
STD OXC129	Standard	1.21	26.97	6.15	41.0	17	76.0	20.0	423	3.03	0.4	0.7	187.2	1.9	197.9	0.08	0.04	<0.02	52	0.68	0.097
STD OXC129	Standard	1.33	24.11	5.91	41.3	13	79.4	20.9	416	3.07	0.7	0.6	186.9	1.6	182.7	0.02	0.03	<0.02	50	0.63	0.093
STD DS10 Expected		15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	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	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665	0.102
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	0.5	0.2	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.04	0.01	<0.1	<2	0.2	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	7	<0.1	<0.1	<1	<0.01	0.3	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.03	<0.01	<0.1	<2	0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.03	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.05	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.3	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.02	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



# QUALITY CONTROL REPORT

WHI16000233.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
STD OXC129	Standard	11.3	50.8	1.50	49.5	0.351	<1	1.55	0.582	0.36	<0.1	1.1	0.02	<0.02	<5	<0.1	<0.02	5.4	0.16	<0.1	0.26
STD OXC129	Standard	10.5	46.6	1.55	43.0	0.421	<1	1.57	0.601	0.37	<0.1	1.1	0.03	<0.02	<5	0.1	<0.02	5.8	0.14	<0.1	0.25
STD OXC129	Standard	10.9	45.0	1.48	43.0	0.384	1	1.49	0.585	0.36	<0.1	1.0	0.03	<0.02	<5	<0.1	<0.02	5.4	0.15	<0.1	0.30
STD OXC129	Standard	11.7	51.1	1.48	46.0	0.391	<1	1.46	0.568	0.35	<0.1	1.1	0.03	<0.02	13	<0.1	0.02	5.1	0.17	0.1	0.28
STD OXC129	Standard	12.4	44.3	1.55	43.0	0.399	2	1.61	0.605	0.38	<0.1	1.2	0.03	<0.02	<5	0.2	<0.02	5.7	0.14	<0.1	0.18
STD OXC129	Standard	12.1	44.2	1.55	42.9	0.396	<1	1.57	0.595	0.37	<0.1	1.2	0.03	<0.02	<5	<0.1	<0.02	5.7	0.14	<0.1	0.24
STD OXC129	Standard	10.9	51.6	1.49	46.9	0.392	<1	1.57	0.605	0.35	<0.1	1.1	0.03	<0.02	<5	<0.1	<0.02	5.5	0.16	<0.1	0.23
STD OXC129	Standard	11.9	51.0	1.52	49.0	0.394	1	1.54	0.580	0.35	<0.1	1.1	0.04	<0.02	<5	<0.1	<0.02	5.7	0.16	0.1	0.29
STD OXC129	Standard	11.2	52.3	1.54	49.6	0.392	1	1.52	0.592	0.37	<0.1	1.1	0.03	<0.02	<5	<0.1	<0.02	5.3	0.16	<0.1	0.29
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0259	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	2.63	0.08	0.06
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6	0.16		0.24
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	0.3	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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**Client: Golden Predator Mining Corp.**

510 - 580 Hornby Street

Vancouver British Columbia V6C 3B6 Canada

Project: NA-16176

Report Date: September 17, 2016

Page: 2 of 2

Part: 3 of 3

# QUALITY CONTROL REPORT

WHI16000233.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
STD OXC129	Standard	1.82	15.3	0.7	<0.05	20.6	4.29	21.7	<0.02	<1	0.8	2.4	<10	<2
STD OXC129	Standard	1.42	13.6	0.6	<0.05	21.4	4.11	19.8	<0.02	<1	0.8	1.9	<10	<2
STD OXC129	Standard	1.55	14.0	0.6	<0.05	20.8	4.18	21.9	<0.02	<1	1.0	2.2	<10	<2
STD OXC129	Standard	1.29	14.6	0.7	<0.05	21.5	4.36	21.8	<0.02	<1	0.9	2.4	<10	<2
STD OXC129	Standard	1.29	13.8	0.6	<0.05	16.4	4.12	19.8	<0.02	<1	0.9	2.0	<10	<2
STD OXC129	Standard	1.41	13.8	0.6	<0.05	18.7	3.94	19.3	<0.02	<1	1.0	1.8	<10	<2
STD OXC129	Standard	1.74	13.4	0.6	<0.05	20.5	4.44	21.5	<0.02	<1	0.8	2.1	<10	<2
STD OXC129	Standard	1.45	14.7	0.8	<0.05	22.6	4.38	22.7	<0.02	<1	0.8	1.9	<10	<2
STD OXC129	Standard	1.31	14.2	0.7	<0.05	20.3	4.54	22.3	<0.02	<1	0.9	2.2	<10	<2
STD DS10 Expected		1.62	27.7	1.6		2.7	7.77	37	0.23	50	0.63	19.4	110	191
STD OXC129 Expected		1.4		0.7		21	4.7	23.7			0.8	2.22		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	0.3	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	0.2	0.02	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



**BUREAU VERITAS** MINERAL LABORATORIES  
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Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

**Client:** **Golden Predator Mining Corp.**  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

Submitted By: M. Burke  
Receiving Lab: Canada-Whitehorse  
Received: August 31, 2016  
Report Date: September 15, 2016  
Page: 1 of 12

# CERTIFICATE OF ANALYSIS

WHI16000234.1

## CLIENT JOB INFORMATION

Project: NA-16176  
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: Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6  
Canada

CC: M. Burke

## 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
AQ251_EXT	320	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
SHP01	320	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.



# CERTIFICATE OF ANALYSIS

WHI16000234.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	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
070951	Soil	1.05	74.54	44.84	89.7	123	51.2	29.5	1371	3.64	73.8	3.5	19.1	7.7	17.9	0.35	1.68	0.45	18	0.28	0.108
070952	Soil	1.66	28.03	44.95	69.1	57	25.9	11.1	358	3.83	10.8	0.7	1.2	3.6	2.6	0.02	0.18	0.62	14	0.02	0.069
070953	Soil	3.45	55.63	43.67	87.6	144	46.2	25.9	809	3.93	137.1	1.7	31.0	5.1	12.6	0.20	1.80	0.54	11	0.38	0.065
070954	Soil	0.69	35.98	56.03	88.1	43	35.7	23.2	667	3.92	24.5	0.9	6.4	4.4	3.6	0.05	0.43	0.64	12	0.06	0.061
070955	Soil	3.20	35.37	24.60	52.5	162	25.2	14.5	603	2.68	54.6	1.3	12.6	1.4	9.9	0.10	1.36	0.29	9	0.21	0.101
070956	Soil	0.48	17.21	8.52	39.1	40	14.5	7.1	611	2.52	3.4	0.4	0.8	3.1	2.3	0.03	0.20	0.25	15	0.01	0.070
070957	Soil	0.30	46.54	20.96	74.4	55	32.1	14.5	1289	3.52	2.2	0.7	0.8	6.8	5.0	0.06	0.11	0.35	14	0.08	0.058
070958	Soil	2.08	83.71	142.86	107.6	49	44.5	42.0	1046	4.78	24.7	2.2	1.1	8.1	4.3	0.02	0.35	1.10	15	0.04	0.046
070959	Soil	1.63	34.17	65.20	92.9	32	36.5	15.1	569	4.52	12.0	0.9	0.4	3.3	4.3	0.04	0.18	0.72	18	0.05	0.079
070960	Soil	0.88	42.32	26.93	83.5	51	52.1	22.7	1380	4.73	55.2	1.0	5.2	6.4	14.1	0.20	0.69	0.30	17	0.26	0.113
070961	Soil	0.81	39.29	67.72	96.9	53	27.2	34.5	1228	3.26	24.0	1.4	1.2	5.8	2.7	0.09	1.07	0.37	11	0.02	0.079
070962	Soil	0.64	48.85	31.85	146.7	29	37.3	115.6	2187	2.46	6.4	1.4	0.4	7.0	3.9	0.18	0.65	0.13	9	0.03	0.036
070963	Soil	0.48	53.60	34.59	97.6	64	41.9	17.6	620	4.22	28.0	3.2	2.3	7.4	9.9	0.04	0.35	0.42	15	0.08	0.041
070964	Soil	0.39	45.44	16.24	87.4	27	46.4	15.8	640	4.90	29.6	1.3	1.1	5.7	8.3	0.04	0.22	0.81	17	0.02	0.090
070965	Soil	0.50	35.61	24.19	91.7	108	38.1	13.0	525	4.30	36.5	1.6	10.3	7.2	6.0	0.04	0.54	0.40	14	0.05	0.054
070966	Soil	0.41	21.53	19.38	48.0	162	19.0	6.9	271	2.49	29.4	0.8	11.3	1.2	4.4	0.04	0.36	0.25	13	0.03	0.069
070967	Soil	0.52	25.37	31.71	65.9	320	25.3	9.2	452	4.40	57.0	1.0	12.7	5.5	4.4	0.11	0.48	0.43	18	0.01	0.081
070968	Soil	0.71	42.24	56.20	77.9	257	31.2	14.2	588	3.96	129.4	1.8	51.0	8.0	11.3	0.11	0.56	0.41	15	0.06	0.084
070969	Soil	0.49	23.54	27.31	49.7	261	17.6	6.4	212	2.37	69.6	0.9	88.0	1.4	13.0	0.05	0.48	0.29	10	0.20	0.063
070970	Soil	0.56	46.44	37.63	114.4	46	48.9	28.9	777	4.96	26.4	2.4	<0.2	11.5	6.9	0.04	0.44	0.43	17	0.20	0.051
070971	Soil	0.65	29.56	23.61	62.8	49	30.1	15.9	1636	3.55	17.9	1.0	3.3	2.0	3.8	0.03	0.29	0.39	16	0.02	0.107
070972	Soil	0.57	68.37	37.14	96.5	67	58.2	28.1	1988	4.95	7.2	1.0	0.8	5.6	6.0	0.02	0.15	0.56	19	0.11	0.066
070973	Soil	0.63	29.32	32.14	40.4	32	19.4	13.3	1539	2.20	6.5	0.5	0.6	0.5	4.5	0.04	0.13	0.28	16	0.04	0.082
070974	Soil	0.98	32.50	26.24	81.3	43	33.8	16.0	1031	4.50	28.7	1.0	1.7	3.2	3.4	0.06	0.36	0.41	25	0.02	0.067
070975	Soil	1.15	35.43	28.24	90.9	30	38.6	19.1	1065	4.88	33.8	1.1	4.0	4.6	3.8	0.06	0.39	0.44	27	0.02	0.059
070976	Soil	0.81	37.07	33.39	103.8	33	45.4	11.9	840	5.81	22.3	1.3	1.1	8.8	3.2	0.06	0.44	0.33	22	<0.01	0.034
070977	Soil	0.46	42.15	21.27	119.1	35	52.6	19.2	735	5.81	83.4	1.3	13.1	6.5	4.3	0.02	0.33	0.39	24	0.04	0.036
070978	Soil	0.27	65.49	41.84	126.1	47	59.5	35.1	898	6.28	141.9	3.5	28.5	10.9	20.8	0.02	0.29	0.30	24	0.05	0.045
070979	Soil	0.41	43.24	27.32	107.6	51	48.9	13.0	677	5.14	83.0	2.9	25.8	10.2	4.2	0.01	0.41	0.36	20	0.04	0.036
070980	Soil	0.73	84.90	46.47	103.0	101	45.6	41.8	979	4.48	199.6	2.7	33.8	6.6	6.3	0.05	0.53	0.46	17	0.05	0.050



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**Client:** Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

**Project:** NA-16176  
**Report Date:** September 15, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000234.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
070951	Soil	14.8	39.5	0.76	57.6	0.003	1	1.49	0.008	0.04	<0.1	4.4	0.04	0.03	13	<0.1	0.09	3.6	1.12	<0.1	0.07
070952	Soil	10.8	23.9	0.62	13.8	0.004	1	1.73	0.006	0.02	<0.1	1.3	0.03	0.03	14	<0.1	0.07	6.0	1.36	<0.1	0.09
070953	Soil	10.2	22.6	0.83	29.4	0.001	1	1.61	0.008	0.03	<0.1	3.7	0.06	0.02	26	0.5	0.10	3.8	1.22	<0.1	0.09
070954	Soil	13.2	25.2	0.78	16.8	0.003	<1	1.84	0.005	0.02	<0.1	1.7	<0.02	<0.02	11	<0.1	0.12	4.8	1.46	<0.1	0.09
070955	Soil	8.5	9.7	0.26	40.2	0.004	1	0.98	0.011	0.03	<0.1	2.4	0.06	0.06	26	0.4	0.06	2.4	0.83	<0.1	0.10
070956	Soil	13.5	16.7	0.47	14.9	0.003	<1	1.05	0.002	0.02	<0.1	0.8	0.03	0.03	34	0.1	0.04	5.3	0.88	<0.1	<0.02
070957	Soil	14.2	28.2	1.23	18.0	0.004	<1	2.10	0.007	0.02	<0.1	2.3	<0.02	<0.02	10	<0.1	0.08	5.5	0.65	<0.1	0.02
070958	Soil	9.1	35.1	1.03	20.8	0.002	<1	2.51	0.006	0.03	<0.1	2.1	0.02	<0.02	6	0.1	0.15	6.9	2.25	<0.1	0.06
070959	Soil	7.3	32.8	0.93	22.9	0.006	<1	2.24	0.004	0.03	<0.1	1.8	0.02	0.04	19	0.1	0.08	7.2	1.89	<0.1	0.06
070960	Soil	18.0	38.4	0.83	28.0	0.002	<1	1.65	0.005	0.03	<0.1	4.8	0.03	<0.02	15	0.1	0.07	3.9	0.56	<0.1	0.07
070961	Soil	10.3	20.4	0.50	17.6	<0.001	<1	1.51	0.003	0.02	<0.1	1.2	0.04	0.04	46	0.1	0.06	4.5	0.59	<0.1	0.06
070962	Soil	15.3	16.5	0.42	40.6	<0.001	<1	1.43	0.003	<0.01	<0.1	1.2	0.04	<0.02	<5	0.1	<0.02	3.7	0.51	<0.1	0.05
070963	Soil	9.0	33.1	0.99	21.5	0.001	<1	2.42	0.006	0.03	<0.1	2.4	0.02	<0.02	<5	<0.1	0.06	6.8	1.54	<0.1	0.03
070964	Soil	12.4	32.5	1.09	21.5	0.003	<1	2.53	0.008	0.03	<0.1	1.9	<0.02	0.04	14	0.2	0.17	7.3	2.42	<0.1	0.16
070965	Soil	20.1	28.9	0.84	26.2	<0.001	<1	2.09	0.004	0.03	<0.1	2.1	0.07	<0.02	54	<0.1	0.08	6.1	1.55	<0.1	0.07
070966	Soil	12.5	15.4	0.38	18.0	0.005	<1	1.12	0.011	0.02	<0.1	0.6	0.04	0.02	29	<0.1	0.04	3.5	0.94	<0.1	0.07
070967	Soil	19.8	22.9	0.52	18.9	0.003	<1	1.57	0.003	0.03	<0.1	1.3	0.07	0.02	55	0.2	0.07	6.0	1.12	<0.1	0.06
070968	Soil	19.7	19.3	0.48	22.6	0.004	1	1.45	0.003	0.03	0.2	1.6	0.08	0.03	70	0.2	0.06	4.4	0.99	<0.1	0.04
070969	Soil	9.8	12.9	0.33	29.3	0.004	1	1.06	0.014	0.03	<0.1	0.8	0.03	0.05	27	<0.1	0.05	3.7	1.18	<0.1	0.03
070970	Soil	10.6	39.3	1.21	14.0	<0.001	<1	2.77	0.003	0.03	<0.1	2.6	0.02	<0.02	<5	<0.1	0.07	7.9	3.62	<0.1	0.05
070971	Soil	7.9	25.8	0.73	25.1	0.004	<1	1.86	0.008	0.02	<0.1	1.2	0.03	0.04	20	<0.1	0.10	5.7	1.63	<0.1	0.10
070972	Soil	24.0	36.7	1.40	18.8	<0.001	<1	2.94	0.003	0.03	<0.1	2.4	<0.02	<0.02	<5	<0.1	0.16	7.2	2.01	<0.1	0.05
070973	Soil	6.6	17.3	0.46	21.0	0.006	<1	1.32	0.012	0.02	<0.1	0.7	0.02	0.04	23	0.1	0.11	4.0	1.21	<0.1	0.03
070974	Soil	11.2	37.0	0.84	26.2	0.006	1	2.17	0.003	0.03	<0.1	1.8	0.05	0.03	38	0.2	0.07	8.1	2.54	<0.1	0.03
070975	Soil	12.7	41.2	0.95	26.1	0.006	<1	2.46	0.003	0.03	<0.1	2.1	0.05	0.02	27	0.2	0.09	8.5	2.88	<0.1	0.06
070976	Soil	7.9	46.2	1.22	14.1	<0.001	<1	2.99	0.004	0.02	<0.1	2.4	<0.02	<0.02	11	0.1	0.07	9.5	2.52	<0.1	0.07
070977	Soil	5.1	49.3	1.25	26.6	0.001	<1	3.11	0.003	0.02	<0.1	2.8	<0.02	<0.02	6	<0.1	0.06	9.8	1.88	<0.1	0.11
070978	Soil	2.3	49.8	1.40	23.5	<0.001	<1	3.46	0.006	0.04	<0.1	3.9	0.04	<0.02	<5	<0.1	0.04	10.3	2.53	<0.1	0.05
070979	Soil	4.4	43.9	1.20	17.2	0.002	5	2.91	0.006	0.03	<0.1	3.2	0.04	<0.02	<5	0.2	0.06	8.7	3.40	<0.1	0.03
070980	Soil	11.0	33.8	1.01	21.3	0.002	<1	2.45	0.007	0.02	<0.1	2.5	0.03	<0.02	13	0.1	0.07	7.0	1.96	<0.1	0.06



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**Report Date:** September 15, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000234.1

	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
070951	Soil	0.09	3.5	0.6	<0.05	2.8	10.37	30.2	0.03	<1	0.8	43.8	<10	<2
070952	Soil	0.15	3.9	0.3	<0.05	4.0	1.38	20.7	0.02	<1	0.1	47.3	<10	<2
070953	Soil	0.06	2.6	1.0	<0.05	4.5	8.51	20.1	0.03	<1	0.6	47.1	<10	<2
070954	Soil	0.06	2.4	1.0	<0.05	3.5	2.22	25.7	<0.02	<1	0.2	57.4	<10	<2
070955	Soil	0.23	3.2	0.4	<0.05	3.6	10.80	16.2	0.03	<1	0.5	14.8	<10	<2
070956	Soil	0.17	3.1	0.9	<0.05	0.7	1.54	26.3	<0.02	<1	0.2	29.8	<10	<2
070957	Soil	0.05	2.0	0.5	<0.05	2.0	3.85	27.8	0.03	<1	0.3	82.2	<10	<2
070958	Soil	0.05	2.5	0.4	<0.05	3.2	1.88	23.5	0.02	<1	0.2	75.2	<10	<2
070959	Soil	0.28	3.9	0.5	<0.05	2.0	1.67	17.2	<0.02	<1	0.3	66.0	<10	<2
070960	Soil	0.06	2.2	0.5	<0.05	3.5	10.32	34.8	0.02	<1	0.3	50.6	<10	<2
070961	Soil	0.05	2.1	0.9	<0.05	3.0	3.73	21.6	0.02	<1	0.3	34.9	<10	<2
070962	Soil	0.02	1.2	0.5	<0.05	2.6	6.08	32.8	<0.02	<1	0.3	35.4	<10	<2
070963	Soil	0.03	2.2	0.5	<0.05	1.9	2.90	19.0	0.02	<1	0.4	74.8	<10	<2
070964	Soil	0.10	3.1	0.8	<0.05	5.8	1.75	25.1	0.02	<1	0.4	78.9	<10	<2
070965	Soil	0.03	3.2	0.4	<0.05	2.7	3.08	38.7	0.03	<1	0.3	68.5	<10	<2
070966	Soil	0.10	2.5	0.7	<0.05	1.2	1.34	24.6	<0.02	<1	<0.1	28.4	<10	<2
070967	Soil	0.26	4.3	0.4	<0.05	1.8	1.79	38.7	<0.02	<1	0.2	40.8	<10	<2
070968	Soil	0.19	4.4	0.7	<0.05	1.4	3.86	39.3	0.02	<1	0.3	38.8	<10	<2
070969	Soil	0.21	2.9	0.6	<0.05	1.1	1.46	18.8	<0.02	<1	0.2	25.6	<10	<2
070970	Soil	0.13	2.7	0.4	<0.05	2.4	3.03	21.8	0.03	<1	0.4	97.7	<10	<2
070971	Soil	0.16	2.9	0.4	<0.05	3.5	1.87	15.8	0.02	<1	0.2	53.6	<10	<2
070972	Soil	<0.02	2.3	0.2	<0.05	3.0	4.33	44.9	0.02	<1	0.5	105.9	<10	<2
070973	Soil	0.12	2.4	1.3	<0.05	1.7	1.52	13.4	<0.02	<1	0.2	34.5	<10	<2
070974	Soil	0.30	4.9	0.5	<0.05	1.8	1.81	22.8	0.02	<1	0.3	64.5	<10	<2
070975	Soil	0.33	5.4	0.6	<0.05	1.9	2.09	26.2	0.02	<1	0.2	71.8	<10	<2
070976	Soil	0.04	2.2	0.3	<0.05	3.1	1.23	23.4	0.03	<1	0.2	95.1	<10	<2
070977	Soil	0.05	2.6	0.3	<0.05	3.4	1.39	11.3	0.02	<1	0.3	96.2	<10	<2
070978	Soil	<0.02	2.0	0.3	<0.05	4.8	2.55	5.8	0.03	<1	0.3	110.8	<10	<2
070979	Soil	<0.02	2.7	0.1	<0.05	2.6	1.98	10.3	0.02	<1	0.1	97.2	<10	<2
070980	Soil	0.04	2.3	0.3	<0.05	2.4	3.74	22.6	<0.02	<1	0.6	76.1	<10	<2



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**Project:** NA-16176  
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# CERTIFICATE OF ANALYSIS

# WHI16000234.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
070981	Soil	0.64	45.32	34.39	91.0	64	40.9	14.8	1106	4.57	198.3	2.1	33.9	5.6	4.4	0.02	0.54	0.41	18	0.01	0.080
070982	Soil	0.44	36.95	26.90	65.5	48	27.9	16.4	654	3.24	28.2	1.5	4.2	3.7	4.3	0.01	0.30	0.24	16	0.04	0.060
070983	Soil	0.43	44.37	27.16	92.0	70	44.2	12.7	582	4.64	52.3	2.4	9.9	8.2	4.8	0.02	0.43	0.32	17	0.04	0.036
070984	Soil	0.37	40.68	20.88	101.0	36	48.1	15.7	656	5.08	68.5	2.0	10.6	6.9	4.8	0.03	0.33	0.31	19	0.03	0.036
070985	Soil	0.39	36.89	28.72	103.3	43	49.7	12.8	569	5.07	33.7	2.0	8.3	7.7	6.2	0.02	0.31	0.35	19	0.03	0.041
070986	Soil	0.44	40.97	31.30	94.9	42	43.6	13.5	598	4.45	19.0	1.9	3.0	5.9	7.6	0.02	0.27	0.38	16	0.05	0.033
070987	Soil	0.48	33.42	19.08	69.6	23	36.0	16.5	777	3.57	44.1	0.8	7.0	3.5	4.5	0.07	0.24	0.50	17	0.04	0.067
070988	Soil	0.64	83.72	35.33	110.2	16	58.9	26.7	1471	4.89	32.0	0.8	5.6	7.0	4.1	0.07	0.25	0.74	22	0.04	0.054
070989	Soil	0.41	44.21	39.43	107.5	92	40.2	20.9	865	4.61	6.4	1.8	2.2	15.1	26.6	0.08	0.27	0.49	12	0.37	0.064
070990	Soil	0.45	54.30	46.50	121.6	139	44.0	25.3	818	4.87	7.8	1.9	3.7	17.8	23.2	0.11	0.32	0.66	13	0.29	0.092
070991	Soil	0.36	39.58	40.49	106.5	91	37.6	18.6	651	4.56	7.1	1.6	3.2	12.5	17.3	0.08	0.40	0.44	13	0.26	0.068
070992	Soil	0.62	30.89	27.70	83.0	73	33.2	14.9	501	3.93	8.3	1.9	3.1	8.2	29.7	0.05	0.49	0.37	16	0.41	0.099
070993	Soil	0.43	54.74	60.51	112.9	214	43.2	32.5	1111	4.57	7.6	1.4	1.5	22.5	32.8	0.09	0.36	0.56	11	0.65	0.082
070994	Soil	0.36	51.27	43.94	108.0	120	42.1	26.1	960	4.83	7.7	1.8	2.2	16.9	22.5	0.10	0.30	0.56	13	0.29	0.081
070995	Soil	0.40	43.49	74.79	110.9	130	36.6	21.3	751	4.33	33.2	1.7	9.8	9.6	21.1	0.10	0.70	0.47	13	0.32	0.068
070996	Soil	0.27	33.15	30.59	88.2	121	34.1	16.3	556	3.99	5.9	1.3	3.3	12.0	33.9	0.06	0.35	0.38	9	0.61	0.073
070997	Soil	0.25	27.63	25.63	91.7	66	29.3	12.1	359	3.74	10.5	1.3	2.4	10.7	13.4	0.04	0.45	0.35	13	0.17	0.069
070998	Soil	0.54	40.05	41.17	101.0	119	39.1	17.5	522	3.83	7.0	1.1	0.9	16.3	230.2	0.09	0.47	0.37	8	4.54	0.059
070999	Soil	0.30	31.74	37.68	98.7	101	38.2	20.1	428	3.80	9.9	1.2	2.3	14.1	91.8	0.04	2.42	0.30	8	1.86	0.058
071000	Soil	0.26	27.47	25.76	84.9	48	33.9	15.4	393	3.44	6.2	1.2	18.1	13.4	84.9	0.04	0.62	0.27	10	1.83	0.059
069051	Soil	0.34	47.87	46.67	114.9	116	40.8	24.1	776	4.41	7.4	1.4	0.2	21.7	29.1	0.08	0.54	0.39	11	0.34	0.063
069052	Soil	0.34	44.58	42.80	102.9	88	42.4	32.4	840	3.78	6.6	1.3	0.8	17.8	20.1	0.03	0.25	0.37	14	0.24	0.054
069053	Soil	0.58	25.13	24.15	56.1	39	20.2	11.9	440	2.96	6.6	1.0	0.8	3.5	5.0	0.06	0.59	0.29	16	0.03	0.069
069054	Soil	0.55	24.56	23.64	57.6	32	21.2	12.2	442	3.06	6.7	1.0	1.1	4.1	4.5	0.06	0.59	0.27	15	0.02	0.068
069055	Soil	0.35	25.76	24.54	100.0	44	36.6	13.7	551	4.11	10.2	1.2	1.3	9.2	9.3	0.05	0.78	0.34	14	0.19	0.061
069056	Soil	0.47	57.22	65.41	120.0	138	53.1	56.0	1392	4.32	8.3	1.7	1.3	26.2	19.8	0.07	0.34	0.41	11	0.33	0.046
069057	Soil	0.31	37.42	41.07	110.8	73	41.9	22.5	735	3.96	9.0	1.2	1.4	15.6	19.1	0.06	0.42	0.39	12	0.30	0.066
069058	Soil	0.64	16.90	25.68	66.5	24	23.4	11.2	346	2.89	11.3	0.7	2.0	3.7	5.2	0.11	0.51	0.26	22	0.05	0.048
069059	Soil	0.59	43.26	51.72	122.6	80	51.2	42.8	1555	4.72	38.7	2.3	4.1	22.1	23.5	0.11	2.08	0.47	9	0.33	0.071
069060	Soil	0.46	27.87	48.95	96.3	92	36.9	25.3	964	3.33	22.0	1.4	3.1	14.2	18.1	0.07	1.00	0.30	9	0.23	0.062



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**Client:** Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

**Project:** NA-16176  
**Report Date:** September 15, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000234.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
070981	Soil	6.6	36.2	0.98	17.1	<0.001	<1	2.48	0.006	0.02	<0.1	2.2	0.03	<0.02	11	0.1	0.10	7.7	2.79	<0.1	0.13
070982	Soil	6.3	25.5	0.70	13.4	0.005	<1	1.80	0.011	0.02	<0.1	1.7	0.02	<0.02	13	0.2	0.03	5.4	1.54	<0.1	0.10
070983	Soil	4.0	38.0	1.05	19.9	<0.001	<1	2.57	0.008	0.02	<0.1	2.7	<0.02	<0.02	<5	<0.1	0.06	7.6	2.24	<0.1	0.07
070984	Soil	5.3	41.2	1.17	16.4	<0.001	<1	2.82	0.005	0.02	<0.1	2.7	<0.02	<0.02	9	<0.1	0.06	8.1	1.65	<0.1	0.13
070985	Soil	7.0	41.7	1.14	23.5	<0.001	<1	2.90	0.006	0.02	<0.1	2.7	0.03	<0.02	7	<0.1	0.05	8.7	2.29	<0.1	0.10
070986	Soil	7.1	36.4	1.06	29.2	<0.001	<1	2.55	0.006	0.03	<0.1	2.5	0.02	<0.02	10	<0.1	0.05	7.3	2.21	<0.1	0.09
070987	Soil	15.7	25.3	0.83	19.0	0.007	1	1.96	0.009	0.03	<0.1	1.5	0.04	<0.02	14	<0.1	0.14	5.9	1.35	<0.1	0.09
070988	Soil	19.0	35.1	1.24	31.7	0.003	1	2.86	0.004	0.05	<0.1	2.3	0.04	<0.02	10	<0.1	0.17	7.0	1.61	<0.1	0.12
070989	Soil	13.2	26.2	0.83	26.4	<0.001	<1	2.13	0.002	0.03	<0.1	3.7	0.02	<0.02	21	<0.1	0.03	5.6	0.82	<0.1	0.12
070990	Soil	15.0	26.2	0.89	22.6	0.002	<1	2.19	0.003	0.03	<0.1	4.0	0.03	<0.02	24	<0.1	0.03	5.8	0.99	<0.1	0.12
070991	Soil	14.2	24.8	0.79	27.3	0.002	2	2.06	0.002	0.03	<0.1	3.2	0.03	<0.02	18	0.1	0.04	5.4	0.51	<0.1	0.17
070992	Soil	16.2	22.7	0.65	49.0	0.003	1	1.87	0.002	0.03	<0.1	2.0	0.04	0.03	24	0.1	0.03	5.1	0.80	<0.1	0.13
070993	Soil	13.5	25.4	0.79	31.7	<0.001	<1	2.26	0.002	0.05	<0.1	4.0	0.04	<0.02	31	<0.1	0.05	5.5	1.58	<0.1	0.19
070994	Soil	18.4	25.7	0.86	26.5	0.003	<1	2.15	0.003	0.03	<0.1	4.1	0.02	<0.02	14	<0.1	0.04	5.4	0.85	<0.1	0.18
070995	Soil	15.5	23.1	0.63	34.9	0.001	<1	1.91	0.002	0.03	<0.1	2.4	0.04	0.03	30	<0.1	0.03	5.2	0.94	<0.1	0.12
070996	Soil	9.6	20.0	0.61	30.1	<0.001	<1	1.72	0.002	0.03	<0.1	3.8	0.03	0.05	36	0.3	<0.02	4.1	0.60	<0.1	0.24
070997	Soil	13.0	19.3	0.62	32.9	0.002	<1	1.83	0.006	0.03	<0.1	2.6	0.03	<0.02	23	0.2	<0.02	4.8	0.69	<0.1	0.11
070998	Soil	22.8	16.9	0.62	19.6	<0.001	<1	1.44	0.002	0.03	<0.1	3.2	0.03	<0.02	36	0.3	0.03	3.6	0.57	<0.1	0.24
070999	Soil	32.9	18.1	0.61	27.6	<0.001	<1	1.56	0.004	0.03	<0.1	4.5	0.03	<0.02	45	0.1	<0.02	3.9	0.88	<0.1	0.19
071000	Soil	17.6	18.6	0.71	28.3	0.002	<1	1.60	0.004	0.04	<0.1	3.0	<0.02	<0.02	11	<0.1	0.02	4.1	0.58	<0.1	0.16
069051	Soil	28.8	24.3	0.79	26.8	0.001	<1	2.03	0.002	0.03	<0.1	3.8	0.03	<0.02	19	<0.1	0.02	5.2	0.95	<0.1	0.18
069052	Soil	11.6	26.3	0.74	45.3	0.002	<1	1.94	0.006	0.04	<0.1	2.0	0.03	<0.02	17	<0.1	0.02	5.4	0.81	<0.1	0.15
069053	Soil	12.6	17.9	0.43	24.2	0.006	<1	1.43	0.008	0.03	<0.1	0.9	0.05	0.04	22	0.2	0.04	4.8	0.94	<0.1	0.08
069054	Soil	13.1	18.3	0.44	22.4	0.005	<1	1.44	0.008	0.03	<0.1	1.0	0.05	0.04	23	0.2	0.03	4.6	0.88	<0.1	0.05
069055	Soil	13.1	25.9	0.81	29.2	0.001	1	2.14	0.002	0.03	<0.1	1.9	0.03	0.02	19	<0.1	0.02	5.8	0.69	<0.1	0.10
069056	Soil	24.0	23.6	0.80	36.8	<0.001	<1	2.01	0.002	0.03	<0.1	2.3	0.05	<0.02	34	<0.1	0.03	5.1	1.25	<0.1	0.15
069057	Soil	41.8	23.8	0.72	30.6	0.001	1	1.94	0.002	0.05	<0.1	2.1	0.03	<0.02	33	<0.1	0.03	4.9	0.87	<0.1	0.09
069058	Soil	23.4	20.8	0.47	42.0	0.007	1	1.57	0.002	0.04	0.1	1.3	0.07	<0.02	9	<0.1	0.03	4.1	1.03	<0.1	0.04
069059	Soil	52.5	16.2	0.59	44.8	<0.001	<1	1.87	0.005	0.07	<0.1	3.2	0.07	<0.02	15	<0.1	0.06	3.9	2.76	<0.1	0.13
069060	Soil	35.9	14.5	0.46	46.1	0.003	1	1.30	0.003	0.06	<0.1	2.7	0.05	<0.02	19	0.1	0.03	3.1	1.28	<0.1	0.07



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
070981	Soil	0.04	3.1	0.3	<0.05	4.5	1.77	14.4	0.03	<1	0.4	77.8	<10	<2
070982	Soil	0.10	2.3	0.3	<0.05	3.3	1.41	13.7	<0.02	<1	0.1	54.6	<10	<2
070983	Soil	0.03	2.0	0.2	<0.05	2.8	1.69	9.9	<0.02	<1	0.3	78.1	<10	<2
070984	Soil	<0.02	2.0	0.2	<0.05	3.3	1.97	12.5	0.03	<1	0.3	84.9	<10	<2
070985	Soil	0.04	2.8	0.1	<0.05	4.4	1.89	15.2	<0.02	<1	0.3	90.3	<10	<2
070986	Soil	0.02	3.0	0.2	<0.05	3.4	1.98	15.3	0.02	<1	0.4	81.2	<10	<2
070987	Soil	0.17	3.8	0.5	<0.05	2.1	2.03	30.2	0.04	<1	0.3	60.4	<10	<2
070988	Soil	0.16	3.8	0.4	<0.05	5.0	2.79	37.0	0.03	<1	0.5	95.5	<10	<2
070989	Soil	<0.02	2.2	0.6	<0.05	5.1	10.01	26.9	0.03	<1	0.5	79.3	<10	<2
070990	Soil	0.03	2.5	0.3	<0.05	7.4	11.19	31.5	0.03	<1	0.7	81.7	<10	<2
070991	Soil	0.05	2.5	0.1	<0.05	6.0	11.09	30.0	0.03	<1	0.5	70.7	<10	<2
070992	Soil	0.21	5.2	0.2	<0.05	4.8	8.31	35.3	0.02	<1	0.6	59.0	<10	<2
070993	Soil	<0.02	3.2	0.2	<0.05	14.1	10.96	27.7	0.03	<1	0.8	74.2	<10	<2
070994	Soil	0.03	2.3	0.1	<0.05	10.1	11.67	40.0	0.04	<1	0.6	79.8	<10	<2
070995	Soil	0.10	4.4	0.2	<0.05	4.9	7.30	36.7	0.03	<1	0.6	63.9	<10	<2
070996	Soil	0.03	3.3	0.2	<0.05	7.0	14.26	18.0	0.03	<1	0.6	51.1	<10	<2
070997	Soil	0.07	3.7	0.2	<0.05	3.9	8.75	24.8	0.02	<1	0.5	52.2	<10	<2
070998	Soil	0.07	1.6	0.2	<0.05	16.6	11.58	45.9	0.03	<1	0.5	50.1	<10	<2
070999	Soil	0.03	2.2	0.2	<0.05	10.5	14.66	65.7	0.02	<1	0.6	50.2	<10	<2
071000	Soil	<0.02	2.2	0.2	<0.05	9.6	9.61	33.1	0.02	<1	0.3	56.4	<10	<2
069051	Soil	<0.02	2.1	0.1	<0.05	13.2	12.91	54.4	0.03	<1	0.8	61.9	<10	<2
069052	Soil	0.03	2.5	0.2	<0.05	11.5	8.56	23.0	<0.02	<1	0.7	58.3	<10	<2
069053	Soil	0.23	4.8	0.3	<0.05	2.3	3.61	25.5	<0.02	<1	0.3	31.1	<10	<2
069054	Soil	0.18	4.5	0.4	<0.05	1.9	3.71	26.6	<0.02	<1	0.3	32.6	<10	<2
069055	Soil	0.05	3.5	0.2	<0.05	3.6	8.12	26.0	<0.02	<1	0.4	67.0	<10	<2
069056	Soil	<0.02	1.9	0.2	<0.05	12.2	10.95	48.6	0.03	<1	0.7	62.8	<10	2
069057	Soil	0.26	3.3	0.2	<0.05	5.4	12.94	84.5	<0.02	<1	0.6	52.8	<10	<2
069058	Soil	0.35	6.8	0.3	<0.05	1.6	3.91	49.4	<0.02	<1	0.4	30.7	<10	<2
069059	Soil	0.08	4.8	0.2	<0.05	11.6	16.69	114.5	0.03	<1	1.2	37.3	<10	<2
069060	Soil	0.13	5.0	0.2	<0.05	5.7	14.63	75.4	<0.02	<1	0.5	27.3	<10	<2



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# CERTIFICATE OF ANALYSIS

# WHI16000234.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
069061	Soil	0.37	45.10	58.70	106.9	81	41.4	26.6	777	4.18	12.3	1.3	0.7	14.3	15.3	0.06	0.58	0.32	21	0.24	0.075
069062	Soil	0.39	39.17	59.57	82.3	112	38.6	23.5	1046	3.93	7.3	1.5	1.8	12.2	254.3	0.08	0.34	0.45	10	6.97	0.143
069063	Soil	0.40	50.52	37.52	106.1	108	43.8	29.1	914	5.07	7.8	2.1	1.4	20.1	21.7	0.07	0.35	0.61	13	0.30	0.082
069064	Soil	0.44	47.62	37.60	87.8	122	40.7	27.1	1091	4.61	7.9	2.3	1.6	18.6	19.4	0.08	0.50	0.52	11	0.26	0.065
069065	Soil	0.38	46.05	42.00	99.8	123	43.6	26.4	670	4.19	7.2	1.8	1.6	20.7	26.3	0.05	0.46	0.49	9	0.34	0.062
069066	Soil	0.36	40.14	37.97	96.2	136	39.6	21.9	530	3.93	6.6	1.3	0.6	18.4	37.7	0.07	0.36	0.52	8	0.69	0.054
069067	Soil	0.30	29.47	29.43	69.8	114	33.1	17.3	453	3.59	6.5	1.0	2.0	16.8	18.7	0.04	0.67	0.39	9	0.23	0.056
069068	Soil	1.12	77.86	74.22	86.3	141	40.7	42.1	1249	3.85	39.2	3.8	5.5	12.4	10.9	0.07	1.18	0.65	17	0.12	0.089
069069	Soil	0.46	44.96	23.01	49.8	61	26.1	22.0	571	2.66	18.4	1.9	2.0	5.0	3.0	0.05	0.59	0.34	15	0.02	0.041
069070	Soil	0.81	50.24	24.71	51.5	73	37.1	26.1	482	3.66	24.5	3.2	3.7	11.8	12.7	0.03	1.05	0.35	12	0.05	0.074
069071	Soil	0.46	44.99	30.74	76.6	70	39.5	24.9	690	4.11	20.5	2.3	4.5	11.9	10.3	0.03	0.79	0.38	13	0.10	0.051
069072	Soil	0.42	44.28	32.82	74.1	75	35.8	21.9	845	3.21	21.7	2.4	3.6	14.8	14.4	0.05	0.92	0.33	8	0.19	0.057
069073	Soil	0.43	46.63	32.97	84.3	69	39.6	23.2	606	3.89	18.3	2.7	6.8	13.1	21.0	0.11	0.81	0.44	12	0.27	0.062
069074	Soil	0.40	23.31	22.41	60.3	49	21.9	8.3	326	2.89	27.2	1.6	4.1	3.2	7.7	0.05	0.52	0.36	13	0.06	0.078
069075	Soil	0.33	37.13	32.71	84.8	91	38.8	17.0	483	3.98	13.9	1.4	3.5	12.1	17.3	0.06	0.57	0.46	12	0.20	0.040
069076	Soil	0.30	36.52	31.45	85.0	93	35.1	13.7	380	3.78	12.3	1.1	3.7	8.7	22.2	0.03	0.58	0.45	11	0.44	0.047
069077	Soil	0.38	40.18	27.85	75.7	52	33.0	16.3	439	3.70	18.9	0.9	2.1	10.7	21.1	0.02	0.62	0.44	12	0.24	0.036
069078	Soil	0.35	44.46	32.48	91.0	91	39.2	17.6	420	4.24	12.4	1.5	3.6	14.1	18.6	0.03	0.53	0.44	12	0.19	0.052
069079	Soil	0.43	49.53	38.29	89.4	106	38.0	16.1	473	3.79	12.7	1.2	3.3	12.3	28.0	0.08	0.65	0.47	12	0.37	0.054
069080	Soil	0.34	45.26	29.06	90.0	106	36.7	14.7	401	3.91	12.3	1.0	3.7	11.6	15.2	0.05	0.72	0.44	13	0.20	0.057
069001	Soil	1.48	42.69	24.52	73.8	116	43.5	19.9	654	3.30	72.1	1.1	19.5	6.3	12.3	0.14	1.75	0.27	10	0.58	0.084
069002	Soil	0.53	48.59	36.68	83.2	40	37.4	24.3	1148	3.88	12.4	1.1	0.8	5.1	4.5	0.04	0.40	0.40	15	0.04	0.064
069003	Soil	0.37	32.77	22.17	101.3	31	45.2	16.7	767	4.74	33.1	1.9	11.6	6.6	4.5	0.02	0.30	0.31	19	0.04	0.043
069004	Soil	0.69	26.21	20.59	72.6	21	37.5	15.5	989	4.18	14.4	0.6	3.8	3.1	3.1	0.03	0.27	0.45	20	0.02	0.089
069005	Soil	0.65	21.77	17.53	63.8	21	31.6	13.0	828	3.67	12.2	0.5	2.0	2.2	2.7	0.03	0.22	0.38	18	0.01	0.083
069006	Soil	0.54	20.95	15.53	50.1	26	25.9	11.2	632	2.73	11.2	0.4	3.3	1.6	2.8	0.02	0.13	0.27	13	0.02	0.076
069007	Soil	0.42	33.25	23.97	102.8	24	49.2	16.6	805	5.11	33.4	1.6	8.3	6.5	4.5	0.03	0.33	0.34	20	0.03	0.038
069008	Soil	0.51	27.80	22.84	75.0	41	37.3	15.1	874	4.27	25.5	1.1	3.3	4.5	4.1	0.02	0.30	0.51	18	0.01	0.078
069009	Soil	0.48	35.52	32.25	81.7	52	38.8	14.9	700	4.45	58.0	2.5	8.0	6.5	5.3	0.01	0.31	0.43	18	0.01	0.058
069010	Soil	0.47	42.02	34.61	103.1	110	41.5	19.3	649	4.23	34.8	1.9	9.3	7.7	8.5	0.10	0.47	0.33	14	0.13	0.075



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		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
069061	Soil	43.1	33.2	0.94	38.9	0.003	<1	2.18	0.006	0.03	<0.1	3.1	0.03	<0.02	16	<0.1	0.03	5.4	0.81	<0.1	0.05
069062	Soil	10.2	21.2	0.73	15.3	0.002	<1	1.67	0.002	0.03	<0.1	3.9	<0.02	<0.02	24	0.3	0.04	4.3	0.29	<0.1	0.14
069063	Soil	13.6	26.8	0.97	21.7	0.001	<1	2.28	0.002	0.02	<0.1	3.8	<0.02	<0.02	17	<0.1	0.05	5.9	0.62	<0.1	0.16
069064	Soil	15.2	23.2	0.83	25.4	0.001	<1	1.99	0.002	0.03	<0.1	3.5	0.03	<0.02	23	<0.1	0.04	5.0	0.76	<0.1	0.14
069065	Soil	13.5	20.6	0.77	24.9	0.001	1	1.75	0.003	0.03	<0.1	2.9	0.02	0.03	24	0.1	0.04	4.5	0.73	<0.1	0.17
069066	Soil	12.2	18.2	0.70	21.6	0.002	1	1.48	0.003	0.03	<0.1	2.6	<0.02	0.03	45	<0.1	0.06	3.8	0.57	<0.1	0.22
069067	Soil	18.4	16.8	0.62	25.6	0.002	<1	1.44	0.004	0.03	<0.1	2.5	0.03	<0.02	18	<0.1	0.03	3.7	0.41	<0.1	0.17
069068	Soil	17.8	25.6	0.72	38.5	0.005	1	1.89	0.006	0.03	<0.1	2.3	0.07	<0.02	17	0.2	0.11	5.1	1.03	<0.1	0.04
069069	Soil	10.0	18.3	0.54	24.1	0.003	<1	1.57	0.010	0.02	<0.1	1.2	0.04	<0.02	23	<0.1	0.05	4.1	0.67	<0.1	0.09
069070	Soil	19.3	19.8	0.67	24.1	0.002	1	1.88	0.007	0.04	<0.1	1.6	0.05	<0.02	15	<0.1	0.05	4.5	0.83	<0.1	0.02
069071	Soil	15.6	25.2	0.82	22.1	<0.001	<1	2.04	0.002	0.03	<0.1	1.6	0.03	<0.02	14	<0.1	0.05	5.1	0.79	<0.1	0.04
069072	Soil	20.5	14.5	0.51	43.7	0.002	<1	1.56	0.007	0.03	<0.1	2.2	0.04	<0.02	23	<0.1	0.05	3.2	0.80	<0.1	0.05
069073	Soil	15.2	22.1	0.74	30.6	0.001	<1	1.86	0.004	0.03	<0.1	2.1	0.03	<0.02	14	0.2	0.07	4.7	0.63	<0.1	0.08
069074	Soil	10.4	15.5	0.40	56.5	0.003	<1	1.64	0.010	0.04	<0.1	1.1	0.06	0.03	13	<0.1	0.05	4.2	0.97	<0.1	0.07
069075	Soil	17.1	23.2	0.71	24.7	0.001	<1	1.82	0.002	0.03	<0.1	2.1	0.02	<0.02	20	0.1	0.06	4.6	0.46	<0.1	0.07
069076	Soil	12.9	22.9	0.66	29.0	<0.001	1	1.74	0.002	0.02	<0.1	2.2	0.02	0.03	26	0.1	0.05	4.5	0.42	<0.1	0.11
069077	Soil	12.6	24.8	0.75	21.3	0.002	<1	1.98	0.002	0.06	<0.1	1.5	0.02	<0.02	14	0.2	0.05	4.9	0.70	<0.1	0.03
069078	Soil	9.1	26.9	0.84	19.0	<0.001	<1	2.08	0.002	0.03	<0.1	1.8	0.02	<0.02	10	<0.1	0.04	5.4	0.49	<0.1	0.07
069079	Soil	15.0	25.3	0.90	31.4	0.001	<1	1.92	0.002	0.03	<0.1	2.2	0.03	<0.02	27	0.1	0.08	4.6	0.61	<0.1	0.08
069080	Soil	14.8	25.5	0.81	27.1	0.002	<1	1.91	0.002	0.03	<0.1	2.3	<0.02	<0.02	19	<0.1	0.05	4.9	0.47	<0.1	0.07
069001	Soil	18.5	17.1	0.57	25.4	0.002	<1	1.06	0.006	0.02	<0.1	4.3	0.03	<0.02	14	0.2	0.06	2.4	0.48	<0.1	0.09
069002	Soil	12.5	29.0	0.95	16.2	0.002	<1	2.18	0.006	0.02	<0.1	1.7	<0.02	0.02	24	<0.1	0.07	5.8	1.09	<0.1	0.15
069003	Soil	11.5	37.1	1.12	17.8	0.001	<1	2.73	0.006	0.03	<0.1	2.2	<0.02	<0.02	9	<0.1	0.06	7.9	1.03	<0.1	0.07
069004	Soil	16.1	29.6	0.88	19.0	0.004	<1	2.13	0.005	0.03	<0.1	1.4	0.03	0.02	19	0.1	0.12	6.8	1.30	<0.1	0.11
069005	Soil	12.3	25.5	0.77	16.7	0.004	<1	1.92	0.006	0.03	<0.1	1.0	0.03	0.03	21	0.2	0.08	6.1	1.09	<0.1	0.09
069006	Soil	10.5	19.8	0.63	15.1	0.005	<1	1.61	0.010	0.02	<0.1	0.9	0.02	0.03	24	<0.1	0.06	4.7	0.78	<0.1	0.11
069007	Soil	9.3	39.9	1.19	15.1	0.001	<1	2.84	0.004	0.02	<0.1	2.4	<0.02	<0.02	6	<0.1	0.08	8.3	1.34	<0.1	0.07
069008	Soil	10.8	30.0	0.88	15.8	0.002	<1	2.22	0.007	0.03	<0.1	1.5	0.02	0.02	25	0.2	0.13	7.1	1.97	<0.1	0.12
069009	Soil	7.6	34.9	0.91	30.0	<0.001	<1	2.53	0.008	0.03	<0.1	2.2	0.04	<0.02	8	<0.1	0.07	7.7	3.94	<0.1	0.17
069010	Soil	20.6	26.8	0.82	20.4	0.001	<1	2.00	0.005	0.03	<0.1	1.8	0.06	<0.02	25	<0.1	0.06	5.9	1.41	<0.1	0.08



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**Project:** NA-16176  
**Report Date:** September 15, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
069061	Soil	0.04	2.9	0.1	<0.05	4.1	10.75	93.6	<0.02	<1	0.6	54.6	<10	<2
069062	Soil	0.19	1.2	<0.1	<0.05	8.4	11.32	22.0	<0.02	<1	0.5	64.8	<10	<2
069063	Soil	<0.02	1.6	0.2	<0.05	13.3	12.07	29.6	0.03	<1	0.7	84.9	<10	<2
069064	Soil	0.02	2.0	0.1	<0.05	8.8	13.31	33.1	0.03	<1	0.8	73.5	<10	<2
069065	Soil	<0.02	1.9	0.1	<0.05	12.0	10.65	27.4	0.03	<1	0.6	66.0	<10	<2
069066	Soil	0.02	1.6	0.2	<0.05	14.9	9.06	25.4	0.03	<1	0.5	56.2	<10	2
069067	Soil	<0.02	1.8	0.2	<0.05	13.1	9.95	36.7	0.02	<1	0.5	51.5	<10	<2
069068	Soil	0.10	3.2	0.3	<0.05	3.3	7.74	36.5	0.02	<1	0.6	59.9	<10	<2
069069	Soil	0.09	2.1	0.2	<0.05	3.9	3.36	19.1	<0.02	<1	0.4	47.9	<10	<2
069070	Soil	0.06	3.8	0.3	<0.05	1.9	5.04	39.6	0.02	<1	0.4	47.0	<10	<2
069071	Soil	0.04	2.4	0.2	<0.05	2.4	3.93	31.2	<0.02	<1	0.4	63.3	<10	<2
069072	Soil	0.06	2.6	0.5	<0.05	3.8	7.58	43.7	<0.02	<1	0.4	35.6	<10	<2
069073	Soil	0.07	2.0	0.3	<0.05	3.9	6.34	31.4	0.05	<1	0.5	61.5	<10	<2
069074	Soil	0.19	5.6	0.4	<0.05	2.4	4.36	21.1	0.02	<1	0.3	30.8	<10	<2
069075	Soil	0.05	2.4	0.2	<0.05	3.0	6.83	34.5	0.02	<1	0.5	57.8	<10	<2
069076	Soil	0.04	2.6	0.2	<0.05	3.6	7.08	24.9	0.03	<1	0.5	56.5	<10	<2
069077	Soil	0.25	2.9	0.3	<0.05	2.2	2.90	24.5	<0.02	<1	0.4	56.9	<10	<2
069078	Soil	0.02	1.7	0.4	<0.05	3.8	3.66	17.9	<0.02	<1	0.2	69.8	<10	<2
069079	Soil	0.07	2.4	0.4	<0.05	3.2	5.43	28.5	<0.02	<1	0.3	61.1	<10	<2
069080	Soil	0.08	2.2	0.3	<0.05	3.7	6.63	28.2	<0.02	<1	0.3	65.7	<10	<2
069001	Soil	0.06	1.7	0.2	<0.05	5.6	10.50	36.6	0.03	<1	0.6	26.6	<10	<2
069002	Soil	0.06	1.8	0.4	<0.05	4.3	2.05	25.8	<0.02	<1	0.4	69.3	<10	<2
069003	Soil	0.03	2.1	0.1	<0.05	3.0	1.87	23.9	<0.02	<1	0.2	87.7	<10	<2
069004	Soil	0.16	4.2	0.2	<0.05	3.7	1.77	30.5	0.02	<1	0.1	67.6	<10	<2
069005	Soil	0.17	3.7	0.2	<0.05	2.9	1.36	23.5	<0.02	<1	0.1	60.2	<10	<2
069006	Soil	0.16	2.8	0.2	<0.05	3.7	1.29	19.6	<0.02	<1	0.3	46.9	<10	<2
069007	Soil	0.03	2.0	0.1	<0.05	3.2	1.68	19.1	0.02	<1	0.1	94.6	<10	<2
069008	Soil	0.10	3.9	0.2	<0.05	4.1	1.47	21.3	<0.02	<1	0.1	66.1	<10	<2
069009	Soil	0.06	4.6	0.2	<0.05	6.0	1.99	16.2	0.02	<1	0.4	75.1	<10	<2
069010	Soil	0.04	2.5	0.4	<0.05	3.1	3.42	41.3	0.02	<1	0.3	71.0	<10	<2



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**Project:** NA-16176  
**Report Date:** September 15, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
069011	Soil	0.54	34.57	29.61	95.4	88	37.3	17.1	636	4.19	74.4	1.6	22.3	6.0	6.9	0.07	0.50	0.36	15	0.05	0.075
069012	Soil	0.39	28.15	23.42	92.6	56	36.7	13.3	546	4.09	54.3	1.5	34.4	6.7	6.6	0.05	0.42	0.33	15	0.05	0.062
069013	Soil	0.44	30.55	27.17	93.9	54	36.0	14.4	601	4.37	74.2	1.7	12.8	6.1	9.0	0.08	0.60	0.38	15	0.05	0.073
069014	Soil	0.52	51.03	35.36	103.1	107	42.3	15.3	584	4.48	98.3	2.6	14.0	8.7	10.6	0.04	0.71	0.50	14	0.13	0.051
069015	Soil	0.63	71.20	44.50	117.0	81	58.7	35.5	1152	4.97	44.4	1.8	1.9	16.3	9.6	0.07	0.85	0.60	15	0.22	0.048
069016	Soil	0.78	38.99	39.14	69.2	38	33.0	23.2	1586	3.46	21.6	1.0	1.7	3.7	5.3	0.04	0.48	0.40	16	0.07	0.071
069017	Soil	0.64	19.39	21.52	64.1	44	29.7	13.0	1175	4.48	13.7	0.4	0.8	3.1	2.2	0.06	0.32	0.36	21	0.01	0.087
069018	Soil	0.63	37.18	31.18	70.4	62	31.0	12.5	718	3.43	14.7	1.5	1.3	4.8	5.2	0.02	0.28	0.34	18	0.06	0.065
069019	Soil	0.62	19.15	36.69	67.8	69	28.9	7.8	540	4.42	12.4	1.0	2.0	5.7	2.9	0.06	0.32	0.37	23	<0.01	0.050
069020	Soil	0.38	18.81	9.99	47.3	47	22.1	9.2	517	2.62	8.9	1.5	2.1	2.0	3.3	0.02	0.17	0.25	13	0.02	0.084
069021	Soil	0.47	25.53	14.30	66.7	34	31.2	8.7	444	3.33	13.7	1.4	2.3	4.7	4.8	0.01	0.28	0.25	18	0.04	0.056
069022	Soil	0.45	34.98	20.18	85.4	36	38.3	16.7	596	4.10	36.6	1.6	6.6	5.4	4.6	0.02	0.31	0.26	19	0.03	0.058
069023	Soil	0.54	62.85	28.84	100.3	58	47.0	18.8	704	4.83	64.5	2.8	14.5	8.0	5.7	0.03	0.39	0.36	21	0.05	0.050
069024	Soil	0.46	60.48	26.75	92.7	71	42.6	20.6	820	4.40	50.7	2.4	12.8	6.6	5.9	0.04	0.32	0.35	18	0.05	0.047
069025	Soil	0.48	43.30	29.90	87.0	55	40.3	13.8	603	4.36	87.8	2.1	20.1	5.9	4.6	0.03	0.40	0.36	17	0.02	0.055
069026	Soil	0.55	46.59	31.98	112.4	62	51.2	19.0	939	5.13	136.5	2.4	18.5	8.0	6.7	0.02	0.56	0.45	20	0.05	0.036
069027	Soil	0.41	37.24	23.24	107.9	37	49.3	17.4	879	5.10	50.4	2.0	6.1	7.8	3.7	0.03	0.38	0.37	20	0.03	0.037
069028	Soil	0.91	40.95	60.34	53.2	67	26.8	15.0	1636	3.04	6.2	0.5	1.7	2.9	4.4	<0.01	0.16	0.40	17	0.05	0.076
069029	Soil	0.40	42.17	51.34	106.7	157	39.1	21.2	589	3.94	39.3	1.5	6.2	16.1	53.8	0.09	2.54	0.50	7	1.08	0.068
069030	Soil	0.30	49.30	56.97	114.8	181	40.6	26.5	676	3.99	57.1	1.6	11.3	17.8	22.5	0.07	1.70	0.58	8	0.32	0.063
069031	Soil	0.37	44.53	47.36	103.2	124	37.7	26.8	864	4.14	52.5	1.9	9.4	19.1	21.5	0.07	1.03	0.55	8	0.32	0.070
069032	Soil	0.43	50.19	38.32	118.0	106	43.0	21.6	1161	5.09	8.3	2.3	1.3	17.0	18.3	0.11	0.33	0.64	12	0.28	0.094
069033	Soil	0.41	40.84	44.49	101.0	123	38.4	21.5	1142	4.59	6.4	1.7	1.2	11.3	30.8	0.10	0.35	0.46	11	0.48	0.069
069034	Soil	0.49	46.48	49.60	99.8	146	43.6	28.2	1165	4.93	8.2	2.1	2.1	16.4	30.3	0.11	0.41	0.57	12	0.40	0.106
069035	Soil	0.45	49.51	41.08	85.7	109	39.2	24.7	811	4.34	8.5	1.7	1.2	14.9	26.7	0.07	0.52	0.52	10	0.36	0.069
069036	Soil	0.36	49.48	32.40	93.3	93	42.5	22.9	805	4.56	10.4	1.5	2.7	18.0	21.7	0.07	0.42	0.49	11	0.28	0.089
069037	Soil	0.51	53.10	46.13	112.8	109	42.7	23.5	962	4.72	7.5	1.7	1.6	19.5	27.3	0.11	0.44	0.55	11	0.35	0.084
069038	Soil	0.38	43.52	40.07	106.6	86	40.6	22.6	649	4.40	7.7	1.3	1.4	19.4	20.9	0.07	0.46	0.48	12	0.30	0.080
069039	Soil	0.40	52.04	51.48	113.1	117	39.1	29.9	827	4.36	10.0	1.8	2.4	18.1	19.5	0.08	0.52	0.49	12	0.28	0.088
069040	Soil	0.41	53.02	50.08	110.2	118	40.3	29.2	809	4.48	10.1	1.8	1.2	18.7	19.2	0.08	0.53	0.50	12	0.27	0.089



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# CERTIFICATE OF ANALYSIS

# WHI16000234.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
069011	Soil	23.4	26.0	0.74	26.9	0.003	<1	1.92	0.004	0.03	<0.1	1.7	0.07	0.02	36	<0.1	0.07	5.7	1.71	<0.1	0.09
069012	Soil	21.1	26.2	0.78	24.6	0.002	<1	1.99	0.005	0.03	0.1	1.8	0.07	<0.02	35	0.2	0.06	5.7	1.12	<0.1	0.08
069013	Soil	20.7	26.2	0.76	27.6	0.002	<1	1.98	0.004	0.03	0.2	1.6	0.10	0.02	41	<0.1	0.10	5.7	1.27	<0.1	0.11
069014	Soil	20.2	29.5	0.86	43.2	<0.001	<1	2.28	0.005	0.04	<0.1	2.8	0.04	0.02	19	<0.1	0.10	6.2	2.46	<0.1	0.08
069015	Soil	20.1	32.4	1.03	26.4	<0.001	2	2.45	0.005	0.04	<0.1	3.8	0.05	<0.02	10	<0.1	0.08	6.7	1.92	<0.1	0.19
069016	Soil	17.4	22.6	0.92	24.4	0.006	<1	1.92	0.009	0.03	<0.1	1.7	0.03	<0.02	9	<0.1	0.10	5.2	0.98	<0.1	0.07
069017	Soil	12.4	24.3	0.93	17.9	0.003	<1	2.01	0.003	0.02	<0.1	1.4	0.03	0.04	47	<0.1	0.09	7.0	1.06	<0.1	0.07
069018	Soil	16.5	27.8	0.86	18.8	0.005	1	2.03	0.011	0.03	<0.1	1.7	0.04	<0.02	9	0.2	0.06	5.8	2.97	<0.1	0.09
069019	Soil	7.4	31.4	0.75	16.5	0.003	<1	2.11	0.004	0.02	<0.1	1.6	0.03	<0.02	23	<0.1	0.07	8.8	2.29	<0.1	0.06
069020	Soil	3.5	21.3	0.48	18.4	0.004	<1	1.38	0.011	0.03	<0.1	1.1	0.03	0.04	31	0.1	0.04	5.3	3.48	<0.1	0.04
069021	Soil	5.3	28.8	0.72	18.2	0.004	<1	1.88	0.011	0.03	<0.1	1.8	0.02	<0.02	10	<0.1	0.06	6.3	1.99	<0.1	0.07
069022	Soil	4.0	34.4	0.87	16.7	0.003	<1	2.26	0.009	0.02	<0.1	2.1	0.02	<0.02	22	<0.1	0.05	7.5	2.49	<0.1	0.11
069023	Soil	7.3	40.9	1.10	21.0	0.002	<1	2.69	0.005	0.03	<0.1	2.7	0.03	<0.02	<5	<0.1	0.08	8.3	2.90	<0.1	0.06
069024	Soil	6.2	35.2	1.00	21.1	0.002	<1	2.50	0.007	0.03	<0.1	2.3	0.03	<0.02	16	<0.1	0.08	7.2	2.47	<0.1	0.08
069025	Soil	5.7	34.9	0.95	18.4	0.001	<1	2.46	0.007	0.02	<0.1	2.1	0.02	<0.02	15	<0.1	0.05	7.2	2.35	<0.1	0.16
069026	Soil	8.8	41.5	1.19	15.9	<0.001	<1	2.84	0.005	0.02	<0.1	3.0	0.03	<0.02	12	<0.1	0.09	8.2	1.92	<0.1	0.03
069027	Soil	6.1	42.1	1.20	14.6	<0.001	<1	2.86	0.006	0.02	<0.1	2.6	0.04	<0.02	10	<0.1	0.08	8.7	1.62	<0.1	0.06
069028	Soil	10.7	21.8	0.72	18.9	0.008	<1	1.71	0.014	0.03	<0.1	1.7	0.04	<0.02	23	<0.1	0.08	5.2	1.55	<0.1	0.05
069029	Soil	10.8	17.4	0.65	24.0	0.002	2	1.49	0.002	0.03	<0.1	2.6	0.03	0.04	27	<0.1	0.04	4.0	0.61	<0.1	0.14
069030	Soil	10.4	19.0	0.72	24.1	<0.001	1	1.68	0.002	0.03	<0.1	2.2	0.02	0.03	25	<0.1	0.04	4.1	0.86	<0.1	0.15
069031	Soil	13.4	18.7	0.73	28.6	<0.001	2	1.83	0.002	0.03	<0.1	3.2	0.04	<0.02	22	<0.1	<0.02	4.2	1.12	<0.1	0.18
069032	Soil	14.1	27.1	0.96	17.8	0.002	2	2.14	0.002	0.02	<0.1	4.6	0.03	<0.02	25	<0.1	0.05	5.5	0.31	<0.1	0.16
069033	Soil	11.3	23.7	0.75	29.0	0.002	2	1.86	0.002	0.02	<0.1	4.4	0.03	0.03	31	<0.1	0.04	5.3	0.51	<0.1	0.19
069034	Soil	15.4	25.5	0.86	27.0	0.002	2	2.05	0.002	0.02	<0.1	5.0	0.04	<0.02	14	0.1	0.03	5.6	0.94	<0.1	0.18
069035	Soil	16.8	22.4	0.77	38.2	0.002	2	1.97	0.007	0.03	<0.1	3.4	0.03	<0.02	31	0.1	0.04	5.2	0.78	<0.1	0.20
069036	Soil	15.4	24.6	0.84	19.9	0.001	1	1.98	0.002	0.02	<0.1	3.0	0.02	<0.02	13	<0.1	0.04	5.3	0.67	<0.1	0.12
069037	Soil	21.9	25.9	0.81	25.3	0.001	<1	2.11	0.003	0.03	<0.1	3.7	0.03	<0.02	35	<0.1	0.03	5.5	0.84	<0.1	0.18
069038	Soil	18.4	24.8	0.83	24.7	0.002	<1	2.05	0.002	0.03	<0.1	3.0	0.03	<0.02	16	<0.1	0.03	5.5	0.87	<0.1	0.15
069039	Soil	16.3	23.0	0.75	29.7	0.002	2	1.97	0.003	0.03	<0.1	3.0	0.04	<0.02	21	<0.1	0.03	5.2	1.15	<0.1	0.12
069040	Soil	18.4	23.9	0.77	29.7	0.002	<1	2.02	0.003	0.03	<0.1	3.0	0.04	<0.02	18	<0.1	0.04	5.3	1.12	<0.1	0.16



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Project: NA-16176

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
069011	Soil	0.14	4.0	0.2	<0.05	2.7	3.00	46.2	0.02	<1	0.3	63.4	<10	<2
069012	Soil	0.09	3.1	0.2	<0.05	2.5	2.91	42.6	<0.02	<1	0.4	64.6	<10	<2
069013	Soil	0.08	3.6	0.2	<0.05	2.7	2.99	40.5	0.03	<1	0.3	65.3	<10	<2
069014	Soil	0.03	4.3	0.3	<0.05	3.4	5.04	38.5	0.03	<1	0.6	74.1	<10	<2
069015	Soil	<0.02	2.5	0.2	<0.05	13.4	6.90	40.5	0.02	<1	0.8	91.8	<10	2
069016	Soil	0.10	2.6	0.2	<0.05	2.3	3.28	35.2	<0.02	<1	0.3	68.8	<10	<2
069017	Soil	0.19	3.4	0.2	<0.05	2.4	1.32	23.9	0.02	<1	0.2	67.0	<10	<2
069018	Soil	0.13	3.5	0.3	<0.05	2.8	1.95	32.7	<0.02	<1	0.1	59.6	<10	<2
069019	Soil	0.26	3.9	0.2	<0.05	2.6	1.10	19.9	<0.02	<1	0.2	59.4	<10	<2
069020	Soil	0.17	4.0	0.3	<0.05	1.8	1.19	8.1	<0.02	<1	0.1	34.8	<10	<2
069021	Soil	0.14	3.3	0.2	<0.05	2.2	1.60	11.5	<0.02	<1	0.2	56.0	<10	<2
069022	Soil	0.11	3.0	0.2	<0.05	3.0	1.32	8.8	0.03	<1	0.1	67.1	<10	<2
069023	Soil	0.07	2.9	0.1	<0.05	3.1	2.10	15.9	<0.02	<1	0.2	84.3	<10	<2
069024	Soil	0.07	2.8	0.2	<0.05	3.1	2.64	13.4	<0.02	<1	0.6	78.9	<10	<2
069025	Soil	0.07	2.7	0.1	<0.05	5.4	1.66	12.2	0.02	<1	0.3	76.3	<10	<2
069026	Soil	<0.02	1.9	0.2	<0.05	2.3	2.42	19.1	0.02	<1	0.3	90.0	<10	<2
069027	Soil	<0.02	1.9	0.2	<0.05	2.5	1.78	14.1	<0.02	<1	0.2	89.4	<10	<2
069028	Soil	0.11	3.5	0.2	<0.05	1.4	3.26	22.9	<0.02	<1	0.2	51.1	<10	<2
069029	Soil	0.09	1.8	0.4	<0.05	11.3	8.32	23.7	0.03	<1	0.4	51.1	<10	<2
069030	Soil	<0.02	1.7	0.2	<0.05	10.5	8.01	23.3	0.02	<1	0.7	56.3	<10	<2
069031	Soil	<0.02	2.0	0.4	<0.05	11.0	11.63	30.6	0.03	<1	0.8	54.5	<10	<2
069032	Soil	0.03	1.3	0.2	<0.05	11.1	11.63	32.8	0.04	<1	0.5	87.2	<10	<2
069033	Soil	0.02	2.0	0.3	<0.05	6.8	12.87	24.2	0.04	<1	0.7	65.9	<10	<2
069034	Soil	0.03	2.2	0.2	<0.05	8.0	15.25	33.3	0.03	<1	0.9	77.6	<10	<2
069035	Soil	0.12	2.5	0.4	<0.05	9.0	13.53	36.2	0.04	<1	0.7	67.4	<10	<2
069036	Soil	<0.02	1.6	0.2	<0.05	11.4	10.38	33.7	<0.02	<1	0.7	79.1	<10	<2
069037	Soil	<0.02	2.4	0.5	<0.05	11.5	12.09	46.6	0.02	<1	0.6	71.1	<10	<2
069038	Soil	0.04	2.2	0.2	<0.05	10.9	10.42	39.8	0.03	<1	0.5	74.0	<10	<2
069039	Soil	<0.02	2.4	0.6	<0.05	11.4	10.73	35.5	0.03	<1	0.8	65.7	<10	<2
069040	Soil	0.05	2.6	0.4	<0.05	14.0	10.86	40.3	<0.02	<1	0.7	67.7	<10	<2



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**Project:** NA-16176  
**Report Date:** September 15, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
070651	Soil	0.43	40.78	40.59	98.2	150	42.1	22.5	633	4.08	62.4	1.8	24.5	15.3	21.0	0.05	3.69	0.50	9	0.27	0.064	
070652	Soil	0.45	38.57	50.86	93.4	125	42.0	21.8	773	4.33	43.2	1.2	7.1	13.4	16.6	0.07	3.21	0.52	8	0.17	0.055	
070653	Soil	0.40	39.17	39.75	103.0	111	38.5	21.4	542	3.91	9.8	1.1	1.0	16.6	30.2	0.08	0.62	0.42	8	0.57	0.058	
070654	Soil	0.39	38.38	39.25	100.9	108	38.7	20.5	551	3.86	10.8	1.1	1.5	15.5	27.4	0.09	0.66	0.42	8	0.47	0.056	
070655	Soil	0.35	41.28	43.02	101.0	119	39.8	20.7	433	3.98	8.9	1.2	1.8	16.7	23.1	0.07	0.65	0.46	8	0.35	0.063	
070656	Soil	0.44	49.46	51.42	106.9	161	42.6	27.6	962	4.56	9.7	1.4	1.7	17.6	25.1	0.09	0.49	0.56	11	0.37	0.070	
070657	Soil	0.47	44.13	47.53	88.5	155	42.5	26.8	675	4.03	12.4	1.3	2.5	19.0	62.3	0.05	1.12	0.49	8	1.48	0.080	
070658	Soil	0.87	32.76	30.21	77.2	177	47.1	17.6	227	4.38	18.2	3.9	4.0	10.9	218.1	0.12	1.98	0.35	4	4.89	0.123	
070659	Soil	0.37	39.83	21.80	83.6	69	35.3	20.1	556	3.54	16.2	1.4	3.3	17.2	17.9	0.06	0.68	0.33	9	0.21	0.030	
070660	Soil	0.86	77.54	93.44	123.2	198	54.5	69.4	1589	3.99	19.2	2.6	3.9	23.7	15.5	0.16	1.46	0.62	9	0.18	0.043	
070661	Soil	0.56	52.91	46.96	91.0	82	30.9	23.7	516	3.54	12.8	2.0	1.7	13.7	17.2	0.04	0.69	0.51	12	0.10	0.072	
070662	Soil	0.67	57.10	42.33	81.3	97	35.3	35.2	1477	3.90	112.2	1.0	7.0	6.9	5.6	0.06	0.63	0.50	16	0.03	0.099	
070663	Soil	0.90	45.85	40.83	81.0	34	35.4	25.2	1195	3.76	75.3	0.9	5.7	7.2	7.3	0.04	0.62	0.51	17	0.05	0.078	
070664	Soil	0.56	52.92	28.66	90.8	24	38.8	35.3	1038	4.45	160.2	0.9	6.2	9.5	9.1	0.05	0.46	0.78	15	0.07	0.084	
070665	Soil	1.00	24.16	32.17	37.8	72	12.3	6.0	275	2.65	37.7	0.7	1.1	1.2	3.7	0.06	0.44	0.51	19	0.02	0.124	
070666	Soil	1.68	85.74	168.79	91.0	59	44.6	66.5	1886	4.53	68.5	2.1	1.0	12.0	7.3	0.05	1.14	1.27	16	0.03	0.045	
070667	Soil	0.31	32.71	54.82	82.3	87	30.9	24.8	746	3.19	33.9	1.4	0.8	16.9	11.5	0.03	0.47	0.30	7	0.10	0.034	
070668	Soil	0.64	28.88	34.65	58.3	38	21.4	11.9	330	2.84	131.0	1.1	11.3	3.4	7.5	0.05	1.12	0.29	14	0.03	0.084	
070669	Soil	0.45	36.99	32.90	80.7	104	32.1	16.9	534	3.22	57.8	1.1	8.6	8.4	11.8	0.04	1.30	0.40	10	0.11	0.044	
070670	Soil	1.24	23.64	48.91	61.8	437	20.4	15.1	1064	3.35	54.4	0.6	3.3	1.2	4.0	0.12	1.91	0.34	14	0.04	0.061	
070671	Soil	1.82	13.80	6.56	49.1	33	17.2	7.2	311	3.21	5.0	0.2	0.4	3.5	1.7	0.04	0.15	0.16	19	0.01	0.060	
070672	Soil	0.57	16.57	9.58	26.6	28	8.5	4.1	220	1.43	12.5	0.5	1.8	0.5	6.6	0.05	0.33	0.17	11	0.05	0.098	
070673	Soil	2.66	41.84	32.11	86.1	156	38.6	19.7	722	3.34	43.0	0.8	12.6	10.0	14.6	0.14	2.04	0.37	9	0.37	0.049	
070674	Soil	2.62	60.08	38.04	100.4	226	97.1	34.1	1662	5.09	204.3	1.2	37.7	4.8	14.0	0.36	2.89	0.35	14	0.49	0.114	
070675	Soil	0.83	43.49	24.64	71.2	73	37.8	15.4	492	3.44	59.2	1.1	16.7	6.2	7.1	0.05	1.01	0.50	11	0.10	0.045	
070676	Soil	1.53	53.64	36.83	81.7	90	50.1	22.6	882	3.74	42.2	1.0	7.7	6.7	14.2	0.11	1.22	0.47	12	0.28	0.072	
070677	Soil	4.18	42.80	30.83	79.1	127	39.2	19.9	679	2.89	42.7	1.1	6.2	5.9	12.4	0.24	2.39	0.38	7	0.48	0.071	
070678	Soil	3.11	43.40	25.94	73.9	129	35.7	21.6	782	2.98	38.2	1.1	8.7	8.2	12.4	0.21	1.49	0.34	8	0.23	0.077	
070679	Soil	3.34	48.60	32.74	83.3	115	39.9	23.1	774	3.43	56.0	1.3	10.2	9.5	15.3	0.19	1.92	0.44	8	0.45	0.068	
070680	Soil	0.41	36.51	27.84	76.0	66	33.0	16.7	527	3.19	49.8	1.4	11.1	10.2	18.0	0.04	0.71	0.39	11	0.11	0.048	



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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
070651	Soil	17.7	19.0	0.57	26.7	<0.001	<1	1.43	0.003	0.04	<0.1	3.5	0.03	<0.02	28	<0.1	0.04	3.5	0.69	<0.1	0.11
070652	Soil	18.3	17.4	0.49	26.4	<0.001	<1	1.40	0.005	0.02	<0.1	3.6	0.03	<0.02	28	<0.1	0.03	3.1	0.81	<0.1	0.07
070653	Soil	17.4	18.8	0.62	25.3	<0.001	<1	1.45	0.003	0.03	<0.1	2.5	0.03	<0.02	28	<0.1	0.02	3.9	0.55	<0.1	0.11
070654	Soil	16.2	17.6	0.61	24.3	0.001	2	1.42	0.003	0.03	<0.1	2.5	0.02	<0.02	39	<0.1	0.04	3.7	0.53	<0.1	0.13
070655	Soil	17.4	18.6	0.65	27.6	0.001	2	1.56	0.004	0.02	<0.1	3.2	0.02	<0.02	34	<0.1	0.03	4.2	0.54	<0.1	0.17
070656	Soil	13.9	23.6	0.76	31.8	0.001	2	1.97	0.003	0.04	<0.1	3.9	0.03	<0.02	48	<0.1	0.04	5.3	0.68	<0.1	0.16
070657	Soil	14.1	18.6	0.65	30.2	<0.001	1	1.55	0.002	0.03	<0.1	2.7	0.04	<0.02	36	0.3	0.04	4.1	0.95	<0.1	0.16
070658	Soil	19.4	4.1	0.14	28.1	<0.001	2	0.45	0.005	0.05	<0.1	3.6	0.05	0.14	78	0.8	0.05	0.7	0.62	<0.1	0.10
070659	Soil	9.5	18.4	0.67	25.4	<0.001	1	1.72	0.002	0.04	<0.1	1.7	<0.02	<0.02	16	<0.1	0.04	4.1	0.41	<0.1	0.16
070660	Soil	6.8	21.3	0.62	22.3	<0.001	2	1.62	0.003	0.03	<0.1	2.2	0.04	0.03	48	0.2	0.06	4.1	0.65	<0.1	0.16
070661	Soil	8.0	20.5	0.62	38.5	0.002	<1	1.77	0.008	0.03	<0.1	1.3	0.03	0.03	11	<0.1	0.03	4.6	0.65	<0.1	0.13
070662	Soil	19.3	23.0	0.92	43.5	0.002	1	2.07	0.003	0.05	<0.1	2.6	0.06	0.04	31	0.1	0.10	5.4	1.65	<0.1	0.10
070663	Soil	19.0	21.6	0.93	27.0	0.005	1	1.97	0.005	0.04	<0.1	1.8	0.05	<0.02	18	0.2	0.10	4.9	1.01	<0.1	0.06
070664	Soil	18.6	23.9	0.92	23.9	0.003	1	2.18	0.002	0.03	<0.1	1.3	0.03	<0.02	14	0.1	0.15	5.3	0.90	<0.1	0.11
070665	Soil	13.2	13.8	0.23	23.1	0.003	1	0.88	0.002	0.03	<0.1	0.4	0.05	0.07	46	0.3	0.19	4.8	1.42	<0.1	<0.02
070666	Soil	17.4	23.1	1.08	25.4	0.002	1	2.12	0.002	0.03	<0.1	1.9	0.05	<0.02	12	0.1	0.79	5.3	0.67	<0.1	0.05
070667	Soil	16.5	13.4	0.42	35.9	<0.001	<1	1.36	0.004	0.04	<0.1	2.0	0.03	<0.02	11	<0.1	0.04	3.2	0.99	<0.1	0.04
070668	Soil	11.5	14.4	0.28	23.8	0.004	2	1.16	0.009	0.04	<0.1	1.0	0.06	0.04	22	0.3	0.05	3.8	1.04	<0.1	0.04
070669	Soil	15.0	14.4	0.57	51.0	0.001	2	1.51	0.008	0.05	<0.1	1.9	0.05	<0.02	20	0.2	0.08	3.5	1.42	<0.1	0.03
070670	Soil	13.3	13.9	0.30	25.6	0.012	2	0.92	0.002	0.02	<0.1	1.2	0.03	0.05	41	0.1	0.10	3.6	0.79	<0.1	<0.02
070671	Soil	11.3	19.7	0.74	12.7	0.002	<1	1.38	0.001	0.02	<0.1	1.0	0.03	0.03	30	<0.1	0.02	7.0	0.69	<0.1	0.02
070672	Soil	9.1	9.2	0.20	37.7	0.002	1	0.85	0.009	0.02	<0.1	0.4	0.04	0.07	27	0.2	0.05	2.9	0.77	<0.1	0.02
070673	Soil	19.3	16.3	0.76	24.6	<0.001	1	1.42	0.002	0.03	<0.1	3.1	0.04	<0.02	15	0.2	0.09	3.2	0.73	<0.1	0.10
070674	Soil	15.4	24.9	0.56	32.5	<0.001	1	1.10	0.004	0.03	<0.1	7.4	0.04	0.02	28	0.2	0.06	2.4	0.83	<0.1	0.11
070675	Soil	17.0	21.1	0.79	23.1	0.001	2	1.58	0.001	0.02	<0.1	2.5	0.04	<0.02	16	<0.1	0.08	3.8	0.75	<0.1	0.15
070676	Soil	18.0	25.4	0.89	24.4	0.002	2	1.56	0.002	0.02	<0.1	4.1	0.04	<0.02	22	<0.1	0.12	3.6	0.58	<0.1	0.18
070677	Soil	18.4	10.6	0.57	17.5	0.002	2	0.79	0.002	0.02	<0.1	3.5	0.06	0.02	23	0.1	0.14	1.6	0.49	<0.1	0.05
070678	Soil	19.7	12.6	0.58	24.3	0.004	3	1.09	0.005	0.02	<0.1	3.4	0.05	<0.02	17	<0.1	0.09	2.4	0.59	<0.1	0.07
070679	Soil	22.0	14.0	0.72	21.9	0.002	2	1.16	0.003	0.03	<0.1	4.2	0.07	<0.02	43	<0.1	0.07	2.5	0.75	<0.1	0.10
070680	Soil	23.6	18.6	0.73	20.4	0.003	2	1.57	0.004	0.02	<0.1	1.6	<0.02	<0.02	8	<0.1	0.07	3.4	0.65	<0.1	0.05



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**Project:** NA-16176  
**Report Date:** September 15, 2016

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# CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
070651	Soil	0.03	2.7	0.5	<0.05	5.1	12.03	35.6	0.03	<1	0.7	46.7	<10	<2
070652	Soil	0.03	2.8	0.3	<0.05	2.9	10.96	40.2	0.04	<1	0.8	41.1	<10	<2
070653	Soil	0.16	2.1	0.4	<0.05	7.7	8.65	36.3	0.02	<1	0.6	50.5	<10	<2
070654	Soil	<0.02	2.0	0.3	<0.05	6.9	8.84	33.9	0.02	<1	0.5	47.9	<10	<2
070655	Soil	0.04	1.9	0.3	<0.05	7.5	10.49	35.1	0.03	<1	0.5	53.5	<10	<2
070656	Soil	0.03	2.4	0.6	<0.05	7.7	11.75	28.7	0.02	<1	0.7	63.6	<10	<2
070657	Soil	<0.02	2.2	0.4	<0.05	13.2	9.27	29.1	0.02	<1	0.7	52.0	<10	<2
070658	Soil	0.04	2.7	0.3	<0.05	8.8	9.42	34.6	0.02	<1	0.4	3.2	<10	2
070659	Soil	<0.02	1.8	0.2	<0.05	9.3	4.48	19.4	0.02	<1	0.4	51.0	<10	<2
070660	Soil	<0.02	2.0	0.2	<0.05	11.6	9.86	14.3	<0.02	<1	0.7	51.0	<10	<2
070661	Soil	0.06	3.3	0.3	<0.05	4.8	4.04	15.9	0.03	<1	0.5	50.5	<10	<2
070662	Soil	0.14	7.3	0.2	<0.05	3.2	6.46	37.7	0.03	<1	0.7	51.8	<10	<2
070663	Soil	0.15	4.5	0.2	<0.05	2.4	3.17	37.2	0.02	<1	0.4	56.1	<10	<2
070664	Soil	0.11	3.3	0.2	<0.05	3.9	2.97	36.3	<0.02	<1	0.4	63.2	<10	<2
070665	Soil	0.23	6.0	0.5	<0.05	0.9	1.43	24.4	<0.02	<1	0.1	12.8	<10	<2
070666	Soil	0.03	2.3	0.2	<0.05	3.5	3.71	32.7	0.02	<1	0.6	69.0	<10	<2
070667	Soil	<0.02	3.3	0.4	<0.05	4.3	4.17	35.8	<0.02	<1	0.4	24.6	<10	<2
070668	Soil	0.17	5.5	0.4	<0.05	2.2	2.68	24.6	<0.02	<1	0.3	16.3	<10	<2
070669	Soil	0.08	5.7	0.6	<0.05	1.4	5.12	29.4	<0.02	<1	0.5	34.7	<10	<2
070670	Soil	0.61	3.6	0.5	<0.05	0.8	3.18	30.9	0.03	<1	0.4	16.4	<10	<2
070671	Soil	0.11	3.8	0.5	<0.05	0.9	1.12	22.2	<0.02	<1	0.2	47.3	<10	<2
070672	Soil	0.16	3.9	0.4	<0.05	1.2	1.81	17.4	<0.02	<1	0.1	11.0	<10	<2
070673	Soil	<0.02	2.1	0.4	<0.05	9.7	7.19	36.7	0.02	<1	0.6	41.8	<10	<2
070674	Soil	0.04	2.3	0.4	<0.05	4.7	17.17	31.7	0.03	<1	0.7	27.8	<10	<2
070675	Soil	0.06	2.4	0.2	<0.05	6.0	6.49	32.3	0.06	<1	0.7	52.7	<10	<2
070676	Soil	0.07	1.9	0.2	<0.05	6.0	10.95	35.4	<0.02	<1	0.1	53.0	<10	<2
070677	Soil	0.04	1.8	0.2	<0.05	3.6	10.48	36.5	0.03	<1	0.4	23.3	<10	4
070678	Soil	0.11	2.1	0.2	<0.05	7.9	10.50	38.3	0.03	<1	0.2	29.7	<10	2
070679	Soil	0.03	2.3	0.4	<0.05	7.7	10.75	43.0	0.05	<1	0.8	29.3	10	<2
070680	Soil	0.04	2.5	0.3	<0.05	3.3	4.40	44.7	<0.02	1	0.5	45.5	<10	<2



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**Project:** NA-16176  
**Report Date:** September 15, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000234.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
070681	Soil	0.29	34.92	23.99	58.4	67	24.5	14.6	509	2.54	76.3	0.9	11.2	8.1	18.1	0.05	0.49	0.31	12	0.12	0.066
070682	Soil	0.45	42.21	36.60	78.0	51	38.5	22.1	749	3.70	19.2	1.4	3.2	6.2	14.4	0.05	0.38	0.46	13	0.06	0.042
070683	Soil	0.47	48.11	28.14	101.6	55	46.9	17.9	983	4.79	40.7	1.5	5.3	6.1	6.5	0.05	0.58	0.48	18	0.08	0.043
070684	Soil	0.48	53.27	34.24	99.0	53	44.5	21.3	670	4.56	29.7	1.9	4.9	9.1	16.0	0.05	0.59	0.44	16	0.10	0.042
070685	Soil	0.80	57.11	38.05	65.6	207	23.5	12.1	439	2.88	32.7	3.8	6.3	2.2	11.6	0.10	1.19	0.43	14	0.04	0.069
070686	Soil	0.53	47.17	24.66	103.8	41	49.6	16.9	893	4.89	50.3	1.8	5.9	7.4	6.1	0.03	0.58	0.40	19	0.08	0.039
070687	Soil	0.39	20.57	16.66	57.7	65	29.7	14.0	1152	3.78	9.4	0.5	1.4	1.3	3.2	0.07	0.20	0.46	19	0.03	0.124
070688	Soil	0.45	56.50	29.41	50.0	96	28.8	16.8	1139	2.87	83.9	0.9	9.7	1.1	10.0	0.02	0.30	0.51	16	0.14	0.063
070689	Soil	0.43	66.01	31.76	92.0	57	55.2	28.9	2001	4.91	106.6	1.1	22.3	5.1	7.0	0.03	0.31	0.62	22	0.13	0.057
070690	Soil	0.91	71.08	46.71	89.2	82	51.8	29.1	2185	5.30	134.6	1.3	4.9	2.2	5.7	0.07	0.54	0.75	28	0.06	0.170
070801	Soil	0.44	40.40	30.06	72.4	55	30.2	16.1	652	3.43	76.9	2.2	32.1	2.9	6.1	0.07	1.02	0.27	19	0.04	0.067
070802	Soil	0.66	66.09	41.12	94.1	108	41.6	27.5	774	4.03	22.4	3.1	0.5	9.9	7.1	0.09	0.59	0.42	15	0.05	0.055
070803	Soil	0.37	49.23	38.07	96.6	88	41.8	24.0	750	4.15	45.2	2.8	9.4	11.1	13.9	0.03	0.89	0.35	14	0.10	0.049
070804	Soil	0.87	48.76	46.70	83.2	64	35.6	23.6	931	3.65	39.7	2.3	7.2	6.9	10.2	0.09	0.70	0.40	13	0.05	0.068
070805	Soil	0.87	41.65	34.46	83.6	43	35.3	19.0	523	3.66	15.1	2.7	0.4	7.9	8.1	0.13	0.69	0.43	25	0.07	0.061
070806	Soil	0.66	26.39	18.39	72.3	51	27.4	8.3	279	3.43	7.8	1.1	0.6	3.2	6.4	0.05	0.39	0.35	23	0.03	0.094
070807	Soil	0.61	53.95	30.08	99.8	50	35.8	17.9	752	3.77	13.0	2.4	0.8	11.6	10.3	0.16	0.47	0.50	24	0.09	0.068
070808	Soil	0.48	72.09	95.07	138.8	114	41.0	32.4	1393	4.00	189.9	1.9	23.5	12.2	6.5	0.14	0.68	0.54	21	0.05	0.065
070809	Soil	0.90	33.79	35.94	74.8	75	25.7	10.6	382	3.38	105.0	1.6	7.2	2.2	7.1	0.06	0.53	0.50	26	0.03	0.090
070810	Soil	0.74	41.46	36.92	86.2	36	35.4	16.6	464	3.80	34.3	2.6	2.4	4.3	6.3	0.12	0.77	0.62	22	0.05	0.064
070811	Soil	0.60	43.64	44.11	92.6	68	36.4	19.6	679	3.75	27.1	2.7	3.7	8.3	6.8	0.07	0.67	0.55	19	0.05	0.056
070812	Soil	0.58	90.80	46.75	108.3	58	40.5	38.0	1286	3.98	12.7	2.6	0.5	15.9	8.9	0.08	0.42	0.86	19	0.07	0.058
070813	Soil	0.84	26.18	27.02	62.2	40	23.5	10.0	376	2.98	34.2	2.2	0.3	1.8	6.5	0.05	0.55	0.48	22	0.04	0.069
070814	Soil	0.62	17.60	15.90	49.4	26	17.0	6.7	223	2.46	6.1	0.7	0.6	1.8	6.4	0.03	0.32	0.36	20	0.05	0.067
070815	Soil	1.19	22.49	30.99	62.8	52	21.5	7.4	227	3.16	11.4	1.2	1.8	2.5	8.8	0.07	0.60	0.57	36	0.05	0.097
070816	Soil	0.63	30.39	28.35	70.1	55	36.3	15.1	492	3.69	7.2	1.2	<0.2	11.6	9.0	0.10	0.76	0.41	17	0.09	0.052
070817	Soil	0.37	27.99	32.31	63.8	104	34.6	14.0	647	3.52	6.6	1.2	2.9	16.8	12.1	0.09	0.60	0.39	11	0.14	0.064
070818	Soil	0.56	19.77	27.35	62.2	32	27.7	12.8	575	3.55	7.8	1.0	<0.2	4.8	6.4	0.10	0.57	0.36	16	0.05	0.057
070819	Soil	0.41	27.74	31.87	83.5	91	35.3	12.3	442	3.71	5.9	1.0	<0.2	9.8	11.4	0.06	0.40	0.46	14	0.11	0.045
070820	Soil	0.34	23.72	31.56	73.2	104	30.1	11.3	427	3.39	6.9	1.1	1.2	9.4	16.3	0.12	0.43	0.44	11	0.19	0.040



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# CERTIFICATE OF ANALYSIS

# WHI16000234.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
070681	Soil	19.2	14.2	0.59	26.1	0.007	2	1.33	0.011	0.03	<0.1	1.2	0.02	<0.02	11	<0.1	<0.02	3.0	0.57	<0.1	0.04
070682	Soil	18.9	23.7	0.97	21.9	0.002	2	1.97	0.002	0.03	<0.1	1.4	0.03	<0.02	37	<0.1	0.10	4.6	0.60	<0.1	0.15
070683	Soil	15.6	37.1	1.14	18.6	0.001	1	2.65	0.004	0.03	<0.1	2.4	<0.02	<0.02	15	<0.1	0.14	6.8	1.71	<0.1	0.13
070684	Soil	14.0	33.2	1.07	18.9	0.002	<1	2.52	0.007	0.02	<0.1	2.4	<0.02	<0.02	<5	<0.1	0.05	6.8	1.61	<0.1	0.08
070685	Soil	9.1	20.9	0.52	28.9	0.003	1	1.57	0.011	0.03	<0.1	1.3	0.05	0.04	26	0.2	0.08	4.2	2.76	<0.1	0.13
070686	Soil	16.9	38.6	1.19	15.2	0.001	1	2.76	0.004	0.02	<0.1	2.9	<0.02	<0.02	10	<0.1	0.07	6.8	1.31	0.1	0.06
070687	Soil	7.9	24.3	0.76	19.4	0.006	2	1.89	0.006	0.02	<0.1	1.0	0.02	0.06	25	<0.1	0.11	6.0	1.16	<0.1	0.09
070688	Soil	6.9	21.9	0.69	27.1	0.004	2	1.71	0.015	0.03	<0.1	1.5	<0.02	0.03	13	<0.1	0.13	4.7	2.18	<0.1	0.04
070689	Soil	17.9	41.8	1.39	17.7	0.002	<1	2.89	0.003	0.03	<0.1	3.2	<0.02	<0.02	21	<0.1	0.13	6.7	1.94	<0.1	0.09
070690	Soil	10.2	64.5	1.20	28.2	0.004	4	2.79	0.006	0.05	<0.1	2.8	<0.02	0.07	28	<0.1	0.21	7.5	5.12	<0.1	0.22
070801	Soil	16.8	24.9	0.70	15.6	0.007	<1	1.74	0.009	0.02	<0.1	1.3	0.03	0.02	21	<0.1	0.07	5.1	1.78	<0.1	0.12
070802	Soil	31.6	30.2	0.97	19.2	0.003	1	2.26	0.008	0.03	<0.1	2.7	0.04	<0.02	18	<0.1	0.06	5.9	3.28	<0.1	0.06
070803	Soil	22.2	31.6	0.98	20.9	0.002	<1	2.26	0.007	0.03	<0.1	2.3	0.02	<0.02	<5	<0.1	0.13	5.8	2.16	<0.1	0.04
070804	Soil	19.6	24.6	0.76	22.3	0.003	<1	1.84	0.006	0.04	<0.1	2.1	0.04	0.03	48	<0.1	0.06	4.6	0.92	<0.1	0.13
070805	Soil	21.6	28.0	0.75	43.4	0.017	2	2.01	0.004	0.04	0.1	2.1	0.07	<0.02	17	<0.1	0.06	5.3	0.99	<0.1	<0.02
070806	Soil	13.4	26.9	0.66	23.6	0.011	2	1.82	0.005	0.04	<0.1	1.6	0.06	<0.02	8	0.2	<0.02	6.1	1.01	<0.1	<0.02
070807	Soil	23.6	29.5	0.77	49.8	0.024	<1	2.09	0.003	0.04	0.2	2.5	0.05	<0.02	<5	<0.1	0.07	5.5	1.11	<0.1	0.03
070808	Soil	18.5	26.6	0.80	40.8	0.009	1	2.29	0.006	0.04	<0.1	2.6	0.05	<0.02	11	0.2	0.08	6.1	2.06	<0.1	0.06
070809	Soil	16.7	25.9	0.54	49.4	0.008	1	1.97	0.004	0.05	0.1	1.2	0.10	0.04	25	0.4	0.07	6.8	1.94	0.1	0.03
070810	Soil	18.0	28.7	0.72	30.1	0.009	1	2.14	0.003	0.03	<0.1	1.4	0.05	<0.02	26	0.2	0.06	5.5	1.09	<0.1	0.05
070811	Soil	20.5	26.7	0.76	29.3	0.012	<1	2.05	0.003	0.03	<0.1	1.8	0.04	<0.02	15	0.3	0.07	5.4	0.79	<0.1	0.04
070812	Soil	19.6	27.4	0.82	44.2	0.008	<1	2.19	0.003	0.04	<0.1	2.4	0.05	<0.02	7	<0.1	0.16	5.6	1.44	<0.1	0.03
070813	Soil	12.9	21.9	0.48	29.3	0.013	1	1.71	0.006	0.04	0.1	1.1	0.07	0.03	25	0.1	0.04	5.2	1.37	<0.1	<0.02
070814	Soil	13.3	18.6	0.43	19.5	0.016	1	1.27	0.010	0.03	0.1	0.8	0.05	<0.02	8	<0.1	0.02	5.0	0.95	<0.1	<0.02
070815	Soil	22.4	26.9	0.52	34.6	0.032	1	1.67	0.005	0.06	0.2	1.7	0.12	0.02	26	<0.1	0.03	8.0	1.82	<0.1	<0.02
070816	Soil	30.1	23.5	0.73	34.4	0.011	<1	1.82	0.003	0.03	<0.1	3.2	0.05	<0.02	8	<0.1	0.02	4.4	0.66	0.1	0.04
070817	Soil	32.9	19.2	0.65	33.9	0.006	<1	1.54	0.002	0.03	<0.1	3.9	0.02	<0.02	15	<0.1	<0.02	4.1	0.39	<0.1	0.08
070818	Soil	27.7	19.9	0.53	40.5	0.006	1	1.61	0.002	0.03	<0.1	2.1	0.05	<0.02	19	<0.1	<0.02	3.8	0.73	0.1	0.05
070819	Soil	43.6	19.1	0.58	43.3	0.006	<1	1.57	0.003	0.03	<0.1	3.3	0.08	<0.02	48	<0.1	<0.02	4.6	0.86	<0.1	0.03
070820	Soil	34.0	15.6	0.46	46.4	0.005	<1	1.27	0.002	0.03	<0.1	4.3	0.04	<0.02	23	<0.1	<0.02	3.3	0.62	0.1	0.03



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**Project:** NA-16176  
**Report Date:** September 15, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
070681	Soil	0.08	2.3	0.5	<0.05	3.2	3.04	35.9	<0.02	<1	0.4	38.3	<10	3
070682	Soil	<0.02	2.7	0.3	<0.05	4.5	3.67	34.2	<0.02	1	0.4	61.2	<10	<2
070683	Soil	0.05	2.8	0.4	<0.05	3.4	2.95	30.1	0.02	<1	0.2	86.2	<10	<2
070684	Soil	<0.02	1.7	0.2	<0.05	8.7	2.33	29.0	0.03	1	0.3	82.3	<10	<2
070685	Soil	0.13	3.3	0.9	<0.05	3.4	3.78	18.9	<0.02	<1	0.3	40.3	<10	<2
070686	Soil	<0.02	2.6	0.2	<0.05	3.3	3.59	32.0	<0.02	<1	0.4	86.2	<10	2
070687	Soil	0.15	2.6	0.8	<0.05	3.4	1.33	14.7	0.02	<1	<0.1	55.1	<10	<2
070688	Soil	0.15	2.8	0.3	<0.05	1.2	4.04	12.7	0.02	<1	0.3	52.4	<10	<2
070689	Soil	0.03	2.6	0.6	<0.05	3.4	4.76	34.3	0.04	<1	0.6	97.4	<10	<2
070690	Soil	0.10	5.9	0.3	<0.05	5.7	2.91	20.8	<0.02	1	1.1	82.0	<10	4
070801	Soil	0.12	2.5	1.9	<0.05	4.5	1.93	31.5	0.03	<1	0.4	51.5	<10	<2
070802	Soil	0.07	3.6	0.9	<0.05	3.4	4.19	58.2	0.02	<1	0.1	72.2	<10	<2
070803	Soil	<0.02	2.4	2.6	<0.05	3.9	3.60	42.1	<0.02	<1	0.7	78.0	<10	<2
070804	Soil	0.07	3.9	2.2	<0.05	4.6	4.59	39.2	0.04	<1	0.4	52.7	<10	<2
070805	Soil	0.30	5.2	2.9	<0.05	1.1	5.47	41.8	<0.02	<1	0.6	54.5	<10	<2
070806	Soil	0.25	7.9	0.7	<0.05	0.4	2.35	26.2	0.02	<1	0.3	53.0	<10	<2
070807	Soil	0.37	5.6	3.3	<0.05	2.3	6.19	46.0	0.02	<1	0.3	62.4	<10	<2
070808	Soil	0.15	4.8	0.5	<0.05	2.1	5.93	37.0	0.02	<1	0.6	63.1	<10	<2
070809	Soil	0.33	10.9	3.4	<0.05	1.0	4.11	32.3	<0.02	<1	0.2	42.4	<10	<2
070810	Soil	0.26	5.0	0.4	<0.05	1.7	3.66	35.2	0.02	<1	0.6	60.0	<10	<2
070811	Soil	0.24	4.3	2.3	<0.05	2.4	5.13	39.0	0.03	<1	0.7	65.6	<10	<2
070812	Soil	0.15	4.3	0.6	<0.05	2.0	5.65	38.1	<0.02	3	0.8	69.8	<10	<2
070813	Soil	0.42	6.7	2.3	<0.05	0.4	2.93	25.8	0.03	<1	0.1	39.7	<10	<2
070814	Soil	0.26	6.1	0.7	<0.05	0.2	2.01	25.9	<0.02	<1	0.4	30.7	<10	<2
070815	Soil	0.69	10.6	2.5	<0.05	0.6	3.32	43.5	<0.02	<1	0.2	28.5	<10	<2
070816	Soil	0.21	4.2	0.7	<0.05	2.1	9.82	64.6	0.02	<1	0.8	53.0	<10	<2
070817	Soil	0.08	2.6	2.9	<0.05	5.8	12.99	70.2	0.04	<1	0.4	52.2	<10	<2
070818	Soil	0.24	5.2	0.5	<0.05	1.2	9.73	63.2	0.03	1	0.5	42.4	<10	<2
070819	Soil	0.19	4.9	1.1	<0.05	0.8	13.95	85.6	0.04	<1	0.8	42.1	<10	<2
070820	Soil	0.14	4.3	0.5	<0.05	1.5	16.14	63.2	0.04	<1	0.3	32.7	<10	<2



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**Project:** NA-16176  
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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
070821	Soil	0.36	25.32	30.38	79.6	31	34.0	13.7	400	3.75	7.4	0.9	2.5	10.4	10.1	0.07	0.50	0.37	10	0.11	0.039
070822	Soil	0.29	24.32	24.38	66.4	33	30.0	11.7	315	3.63	7.2	1.1	3.1	9.5	5.3	0.04	0.48	0.36	10	0.05	0.038
070823	Soil	0.39	33.18	39.10	82.7	29	38.8	16.7	368	4.00	5.7	0.9	2.1	10.7	5.4	0.08	0.40	0.41	11	0.05	0.042
070824	Soil	0.49	15.04	21.12	57.5	24	19.4	5.9	149	2.76	5.8	0.7	2.6	3.3	4.7	0.04	0.29	0.36	17	0.03	0.052
070825	Soil	0.33	16.41	25.92	54.8	143	20.0	9.0	472	2.52	4.2	0.7	1.2	2.5	8.2	0.05	0.31	0.25	9	0.12	0.063
070826	Soil	0.34	29.10	31.62	81.6	29	38.3	16.5	493	3.83	7.7	1.0	3.2	12.6	7.6	0.08	0.54	0.37	10	0.09	0.053
070827	Soil	0.47	50.83	67.18	81.7	168	46.9	39.6	1525	4.30	12.7	1.8	4.2	9.1	31.6	0.13	1.16	0.43	9	0.47	0.158
070828	Soil	0.45	45.91	39.31	114.9	136	41.0	21.4	744	4.29	8.8	1.3	1.0	20.9	13.5	0.09	0.34	0.48	7	0.14	0.036
070829	Soil	0.35	31.44	35.51	81.1	139	37.2	16.5	547	3.80	7.6	1.1	1.8	17.3	20.1	0.06	0.52	0.38	9	0.28	0.052
070830	Soil	0.35	21.35	22.37	71.0	81	26.4	11.1	550	3.49	7.3	0.7	5.0	6.4	5.1	0.09	0.43	0.33	10	0.05	0.074
070831	Soil	0.43	57.51	52.39	102.5	134	41.9	23.0	704	4.32	22.1	2.7	4.6	14.9	19.5	0.06	0.67	0.65	11	0.16	0.039
070832	Soil	1.13	92.88	93.50	105.6	137	62.6	89.4	2044	4.77	18.3	4.7	2.1	20.3	4.7	0.11	0.75	0.42	16	0.03	0.045
070833	Soil	0.77	99.43	59.21	102.4	114	46.1	45.8	861	4.86	16.5	5.4	1.4	27.0	9.0	0.07	0.68	0.52	14	0.05	0.069
070834	Soil	0.76	102.78	63.61	106.5	112	50.1	52.4	1331	4.80	23.0	4.2	2.2	28.5	14.7	0.08	0.78	0.59	13	0.16	0.064
070835	Soil	0.77	104.38	65.44	103.4	112	51.7	50.8	1304	4.76	22.9	4.1	2.3	28.3	14.8	0.08	0.78	0.58	13	0.16	0.062
070836	Soil	0.92	108.31	70.55	107.6	183	48.8	49.9	1029	4.97	22.0	4.7	2.8	28.9	15.4	0.07	0.56	0.79	14	0.12	0.069
070837	Soil	0.87	66.58	63.73	93.9	222	45.1	30.3	737	4.63	20.3	2.9	1.7	16.3	9.4	0.04	0.51	0.62	15	0.09	0.065
070838	Soil	1.01	84.00	58.68	87.0	120	42.4	37.9	876	4.13	19.4	3.4	2.0	17.5	9.9	0.07	0.62	0.50	13	0.09	0.063
070839	Soil	0.68	50.99	31.49	58.8	66	21.6	16.2	618	3.19	17.7	3.0	6.5	4.9	15.3	0.06	0.64	0.48	14	0.14	0.099
070840	Soil	0.53	40.16	39.90	73.4	60	31.0	17.9	524	3.41	22.7	1.8	2.9	8.0	6.2	0.10	0.90	0.36	10	0.05	0.070
070941	Soil	0.90	32.43	37.55	87.3	76	28.9	16.7	844	3.53	29.6	4.9	2.2	5.8	29.9	0.11	0.60	0.44	14	0.42	0.117
070942	Soil	0.62	33.46	44.09	79.2	80	32.8	18.1	836	3.93	44.0	3.6	8.6	5.2	11.9	0.16	0.85	0.44	15	0.13	0.100
070943	Soil	0.91	42.04	20.54	73.4	89	40.4	14.6	519	3.56	40.8	0.6	13.6	7.2	7.3	0.05	1.61	0.30	14	0.09	0.056
070944	Soil	0.39	42.88	26.98	81.8	106	60.3	22.7	830	4.13	39.4	0.4	17.8	7.7	12.0	0.07	0.83	0.30	23	0.21	0.078
070945	Soil	0.28	41.87	26.06	102.9	51	44.9	17.7	695	4.62	25.5	1.3	5.6	9.7	7.6	0.02	0.28	0.40	16	0.08	0.035
070946	Soil	0.24	43.67	23.44	112.6	49	50.2	15.2	538	5.07	10.7	1.3	2.5	10.6	7.0	<0.01	0.16	0.40	17	0.11	0.042
070947	Soil	0.26	36.82	20.61	115.6	28	51.6	14.8	603	5.48	8.7	1.4	1.4	9.6	5.6	0.02	0.15	0.35	18	0.08	0.038
070948	Soil	0.45	35.70	27.02	122.8	55	53.9	13.9	625	5.81	13.1	1.7	1.9	9.6	4.5	0.02	0.21	0.35	19	0.06	0.044
070949	Soil	1.08	29.76	46.93	73.4	35	33.3	13.7	583	5.01	132.6	0.9	7.4	4.5	2.9	0.13	1.38	0.60	15	0.03	0.105
070950	Soil	0.85	22.23	40.79	79.1	117	37.6	14.5	750	4.43	95.7	0.7	5.4	4.0	4.6	0.07	0.66	0.46	18	0.04	0.088



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
070821	Soil	34.0	17.9	0.61	48.4	0.001	2	1.63	0.002	0.04	<0.1	2.1	0.05	<0.02	20	0.1	0.04	3.8	0.53	<0.1	0.06
070822	Soil	32.1	18.6	0.66	40.3	0.001	1	1.72	0.002	0.04	<0.1	2.4	0.04	<0.02	18	0.1	<0.02	4.1	0.53	<0.1	0.09
070823	Soil	24.9	20.7	0.61	40.8	0.001	1	1.93	0.002	0.03	<0.1	2.0	0.04	<0.02	16	0.2	0.02	4.2	0.63	<0.1	0.13
070824	Soil	21.9	18.1	0.49	39.0	0.008	1	1.62	0.006	0.04	0.1	1.5	0.08	<0.02	17	0.2	0.03	4.7	1.04	<0.1	0.03
070825	Soil	14.0	11.8	0.38	47.9	0.004	1	1.33	0.009	0.03	<0.1	1.4	0.05	0.03	21	0.3	<0.02	3.5	0.48	<0.1	0.05
070826	Soil	31.7	19.9	0.67	37.2	0.001	<1	1.88	0.002	0.03	<0.1	2.6	0.03	<0.02	19	0.2	0.03	4.0	0.49	<0.1	0.10
070827	Soil	17.0	18.4	0.59	62.4	0.002	2	1.75	0.005	0.05	<0.1	3.0	0.06	0.06	36	0.3	0.03	4.2	1.33	<0.1	0.18
070828	Soil	19.5	15.6	0.61	17.9	<0.001	<1	1.46	0.002	0.04	<0.1	3.2	0.03	<0.02	33	0.3	0.04	3.5	0.89	<0.1	0.13
070829	Soil	33.8	18.2	0.64	26.1	0.002	<1	1.52	0.003	0.07	<0.1	3.6	0.03	<0.02	37	<0.1	0.03	3.9	0.46	<0.1	0.21
070830	Soil	19.4	18.2	0.53	43.9	0.002	<1	1.66	0.004	0.04	<0.1	1.4	0.04	0.03	22	<0.1	<0.02	4.5	0.64	<0.1	0.14
070831	Soil	14.8	25.6	0.85	23.7	<0.001	<1	2.16	0.002	0.03	<0.1	1.7	0.02	<0.02	22	<0.1	0.05	5.3	0.63	<0.1	0.06
070832	Soil	13.5	33.6	0.99	60.6	0.001	<1	2.67	0.003	0.03	<0.1	2.2	0.06	<0.02	26	0.2	0.06	6.0	1.46	<0.1	0.06
070833	Soil	9.8	28.4	0.90	29.3	<0.001	<1	2.30	0.003	0.04	<0.1	2.1	0.04	<0.02	14	0.2	0.07	5.6	1.05	<0.1	0.05
070834	Soil	10.9	26.9	0.91	34.2	<0.001	<1	2.30	0.003	0.04	<0.1	2.1	0.04	<0.02	13	0.2	0.09	5.3	1.15	<0.1	0.10
070835	Soil	10.3	26.6	0.90	32.9	<0.001	<1	2.28	0.003	0.03	<0.1	2.0	0.03	<0.02	14	0.1	0.06	5.2	1.10	<0.1	0.07
070836	Soil	11.8	29.7	0.95	26.9	<0.001	<1	2.31	0.004	0.03	<0.1	2.2	0.04	<0.02	37	0.2	0.10	5.7	0.93	<0.1	0.04
070837	Soil	10.0	31.9	0.98	16.7	0.002	<1	2.24	0.004	0.04	<0.1	1.8	0.03	<0.02	9	<0.1	0.08	5.9	0.44	<0.1	<0.02
070838	Soil	10.6	27.4	0.79	24.0	0.002	<1	1.96	0.008	0.03	<0.1	1.7	0.03	0.02	23	0.1	0.05	5.3	0.64	<0.1	0.06
070839	Soil	9.9	18.1	0.43	56.7	0.002	<1	1.53	0.008	0.04	<0.1	1.1	0.06	0.04	17	0.3	0.07	4.8	1.40	<0.1	0.07
070840	Soil	13.5	17.0	0.45	23.6	0.002	1	1.67	0.008	0.03	<0.1	1.3	0.05	0.03	20	0.3	0.06	3.7	0.88	<0.1	0.07
070941	Soil	14.0	22.7	0.53	53.7	0.002	<1	1.69	0.006	0.05	<0.1	1.8	0.04	0.05	23	0.1	0.05	5.0	1.00	<0.1	0.06
070942	Soil	17.3	24.9	0.62	59.4	0.004	<1	1.72	0.005	0.04	<0.1	2.3	0.04	0.03	15	0.2	0.06	4.6	0.85	<0.1	0.05
070943	Soil	27.2	30.3	0.98	60.8	0.001	<1	1.80	0.003	0.08	<0.1	3.4	0.04	<0.02	13	<0.1	0.08	4.2	0.63	<0.1	0.05
070944	Soil	26.3	59.7	1.38	66.1	0.002	<1	2.23	0.004	0.09	<0.1	5.1	0.03	<0.02	11	<0.1	0.07	5.6	0.63	<0.1	0.04
070945	Soil	21.3	37.0	1.20	40.3	<0.001	<1	2.76	0.007	0.06	<0.1	2.5	0.02	<0.02	11	<0.1	0.07	7.4	0.90	<0.1	0.09
070946	Soil	19.1	38.8	1.33	33.0	<0.001	<1	3.03	0.007	0.06	<0.1	2.8	<0.02	<0.02	11	<0.1	0.06	8.4	0.75	<0.1	0.15
070947	Soil	14.9	42.0	1.33	21.3	<0.001	<1	3.13	0.006	0.04	<0.1	2.4	<0.02	<0.02	<5	<0.1	0.06	8.6	0.53	<0.1	0.06
070948	Soil	14.2	44.8	1.37	19.6	<0.001	<1	3.24	0.005	0.03	<0.1	2.6	<0.02	<0.02	<5	<0.1	0.06	9.4	0.55	<0.1	0.05
070949	Soil	14.5	36.3	0.78	20.2	0.004	<1	2.20	0.003	0.03	<0.1	1.9	0.02	0.04	32	0.2	0.11	4.9	0.81	<0.1	0.09
070950	Soil	12.8	38.1	0.92	31.5	0.003	<1	2.08	0.006	0.03	<0.1	1.8	0.02	0.03	13	0.2	0.08	6.4	0.90	<0.1	0.07



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**Project:** NA-16176  
**Report Date:** September 15, 2016

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
070821	Soil	0.12	3.9	1.8	<0.05	2.1	7.79	73.1	0.03	<1	0.6	50.4	<10	<2
070822	Soil	0.06	4.2	0.4	<0.05	2.9	9.06	66.3	0.02	<1	0.6	52.9	<10	<2
070823	Soil	0.08	3.6	1.4	<0.05	4.8	6.28	54.8	0.02	<1	0.5	58.0	<10	<2
070824	Soil	0.27	6.1	0.8	<0.05	0.8	4.27	46.3	0.02	<1	0.3	37.9	<10	<2
070825	Soil	0.15	4.0	1.8	<0.05	1.4	7.87	30.4	<0.02	<1	0.5	30.1	<10	<2
070826	Soil	0.07	3.7	0.4	<0.05	4.7	8.96	70.8	0.03	<1	0.7	57.2	<10	<2
070827	Soil	0.14	6.0	8.0	<0.05	6.7	20.14	36.6	0.05	<1	0.7	47.2	<10	<2
070828	Soil	<0.02	2.2	1.0	<0.05	9.5	18.82	43.9	0.03	<1	0.5	47.9	<10	<2
070829	Soil	<0.02	2.9	2.3	<0.05	12.5	11.99	69.2	0.03	<1	0.5	52.5	<10	<2
070830	Soil	0.11	4.7	0.8	<0.05	4.7	4.54	41.8	0.02	<1	0.5	47.0	<10	<2
070831	Soil	<0.02	2.9	3.3	<0.05	2.5	4.24	28.8	0.03	<1	0.4	84.6	<10	<2
070832	Soil	0.03	3.0	0.4	<0.05	3.3	5.09	27.4	0.02	<1	0.9	87.2	<10	<2
070833	Soil	0.07	2.3	1.0	<0.05	4.6	5.15	19.9	0.02	<1	0.6	75.9	<10	<2
070834	Soil	<0.02	2.3	0.5	<0.05	5.7	5.94	22.2	<0.02	<1	0.7	77.0	<10	<2
070835	Soil	<0.02	2.3	1.9	<0.05	5.4	5.87	20.8	0.02	<1	0.8	75.9	<10	<2
070836	Soil	<0.02	2.6	1.0	<0.05	3.3	5.95	24.2	0.03	<1	0.6	80.8	<10	<2
070837	Soil	<0.02	2.2	26.7	<0.05	2.4	3.83	19.6	<0.02	<1	0.4	84.6	<10	<2
070838	Soil	0.05	2.2	3.9	<0.05	2.4	4.64	21.9	0.02	<1	0.8	67.3	<10	<2
070839	Soil	0.16	5.2	3.1	<0.05	2.2	3.76	19.7	0.02	<1	0.5	32.9	<10	<2
070840	Soil	0.13	3.6	5.6	<0.05	3.6	3.96	31.1	0.02	<1	0.5	34.8	<10	<2
070941	Soil	0.22	7.1	2.2	<0.05	2.5	6.10	28.3	0.04	<1	0.4	47.6	<10	<2
070942	Soil	0.17	5.4	9.7	<0.05	1.5	7.51	39.5	0.04	<1	0.6	47.2	<10	<2
070943	Soil	0.03	4.9	0.6	<0.05	2.1	5.23	53.0	0.03	<1	0.5	54.3	<10	<2
070944	Soil	0.05	4.6	4.8	<0.05	3.0	6.41	50.9	0.04	<1	0.6	73.7	<10	<2
070945	Soil	<0.02	3.6	0.4	<0.05	4.0	3.54	42.7	0.02	<1	0.5	90.4	<10	<2
070946	Soil	<0.02	2.9	1.7	<0.05	7.8	3.37	39.3	<0.02	<1	0.4	101.8	<10	<2
070947	Soil	<0.02	2.1	0.6	<0.05	3.5	2.26	31.7	<0.02	<1	0.4	105.8	<10	<2
070948	Soil	<0.02	2.1	6.9	<0.05	2.8	1.98	30.8	0.02	<1	0.2	107.1	<10	<2
070949	Soil	0.21	3.0	1.4	<0.05	2.8	3.23	30.2	0.04	<1	0.5	51.0	<10	<2
070950	Soil	0.14	4.0	17.5	<0.05	1.9	2.20	26.4	<0.02	<1	0.4	61.3	<10	<2



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
070691	Soil	1.61	44.07	50.49	81.7	77	41.6	29.1	3247	5.30	25.4	0.8	1.7	3.8	3.1	0.04	0.37	0.83	23	0.02	0.166
070692	Soil	1.70	65.95	55.82	80.9	93	40.5	25.9	1963	3.67	21.6	1.0	0.9	1.9	8.3	0.06	0.21	0.47	17	0.11	0.083
070693	Soil	3.41	94.40	67.94	119.2	55	60.2	38.0	3147	5.02	13.6	1.1	<0.2	4.5	4.8	0.09	0.38	0.91	20	0.07	0.084
070694	Soil	1.28	85.49	50.42	105.8	69	66.2	39.5	2740	5.18	17.0	1.3	2.2	5.0	5.8	0.05	0.18	0.66	19	0.09	0.074
070695	Soil	0.94	86.30	61.92	110.9	62	44.6	34.6	2218	4.84	35.2	1.9	4.2	5.8	4.3	0.09	0.29	0.81	19	0.06	0.079
070696	Soil	0.92	84.65	67.23	111.1	103	44.4	35.3	2247	4.83	37.4	1.9	3.2	5.8	4.4	0.08	0.30	0.79	19	0.06	0.084
070697	Soil	1.15	54.35	49.14	106.6	32	49.5	27.0	1983	4.80	8.4	0.6	3.3	5.5	4.2	0.13	0.17	0.53	19	0.07	0.060
070698	Soil	0.48	57.66	17.55	102.9	43	48.1	20.8	640	4.66	25.4	3.1	1.4	9.9	5.6	0.05	0.42	0.53	18	0.03	0.030
070699	Soil	0.48	49.47	22.35	105.7	50	49.1	16.9	641	4.83	29.1	2.7	5.9	10.6	6.4	0.04	0.39	0.39	20	0.05	0.037
070700	Soil	0.75	29.35	52.11	91.4	260	38.2	10.4	451	4.26	28.3	1.4	3.9	4.6	5.9	0.03	0.64	0.34	19	0.04	0.058
069301	Soil	0.69	22.83	15.54	68.5	50	33.0	12.6	419	3.30	30.8	0.5	1.2	2.8	5.9	0.09	0.40	0.28	16	0.11	0.088
069302	Soil	0.76	91.28	68.97	112.7	125	44.7	42.4	1110	4.76	24.9	3.1	1.7	11.1	6.6	0.05	0.64	0.59	17	0.04	0.050
069303	Soil	0.78	34.66	30.14	84.1	23	44.7	21.4	1751	4.66	10.2	0.5	<0.2	4.5	3.5	0.03	0.24	0.53	23	0.03	0.092
069304	Soil	0.91	47.90	47.42	90.8	90	45.2	22.0	1732	4.82	22.9	1.1	2.7	5.4	4.6	0.05	0.38	0.54	21	0.04	0.084
069305	Soil	1.04	60.21	52.02	79.8	63	43.1	24.7	3152	4.76	14.3	0.8	0.6	5.1	3.6	0.05	0.50	0.67	21	0.04	0.118
069306	Soil	0.92	36.77	32.64	58.0	49	26.7	17.8	1373	3.30	16.5	0.6	<0.2	2.1	3.4	0.02	0.63	0.53	16	0.03	0.089
069307	Soil	0.96	38.78	30.19	72.2	34	30.8	17.2	966	4.63	26.7	0.9	1.7	4.9	3.9	0.05	1.07	0.49	22	0.03	0.064
069308	Soil	1.99	72.37	57.86	99.4	54	54.9	42.2	2181	5.44	73.8	1.8	2.0	8.5	6.2	0.05	0.66	1.01	20	0.10	0.075
069309	Soil	0.83	55.95	47.29	77.3	54	40.6	20.9	1344	3.98	32.9	1.4	3.9	5.2	5.5	0.03	0.29	0.45	18	0.06	0.069
069310	Soil	0.52	48.24	28.76	108.2	59	48.0	16.2	718	5.06	67.9	2.7	13.8	7.9	5.1	0.03	0.40	0.37	19	0.03	0.038
069311	Soil	0.59	52.55	34.03	103.0	43	48.9	21.0	1023	4.92	84.5	1.9	12.8	6.8	6.0	0.03	0.40	0.46	19	0.06	0.043
069312	Soil	0.52	57.31	29.67	97.7	65	44.5	17.4	738	4.64	46.7	2.6	7.2	6.0	6.4	0.03	0.32	0.40	21	0.06	0.052
069313	Soil	0.52	65.68	36.40	109.9	50	49.0	23.4	1395	4.79	35.9	2.2	4.8	7.7	5.9	0.04	0.30	0.42	20	0.06	0.049
069314	Soil	0.73	74.08	63.97	102.0	105	54.4	33.6	1854	4.82	25.7	1.7	2.3	6.8	5.8	0.06	0.23	0.59	19	0.09	0.049
069315	Soil	0.48	41.65	21.25	87.9	36	41.4	21.7	808	4.25	15.8	1.9	1.1	7.6	4.2	0.02	0.31	0.31	20	0.06	0.046
069316	Soil	0.46	37.58	19.98	100.1	61	45.9	25.1	841	4.59	11.5	1.9	0.7	8.9	3.9	0.04	0.25	0.33	22	0.05	0.045
069317	Soil	0.38	26.04	16.00	91.3	23	42.7	13.9	709	4.35	8.6	1.5	<0.2	8.1	4.4	0.02	0.18	0.29	18	0.05	0.038
069318	Soil	0.83	29.06	31.83	96.0	59	45.5	16.4	832	4.74	12.6	0.7	0.5	5.9	4.4	0.04	0.18	0.43	20	0.05	0.046
069319	Soil	0.48	24.48	16.70	65.4	31	28.4	11.8	584	3.19	8.6	0.5	2.2	3.6	4.8	0.02	0.13	0.26	20	0.06	0.067
069320	Soil	0.47	47.30	51.45	70.0	81	37.4	23.0	1312	3.47	84.6	1.0	8.7	9.5	7.0	0.03	0.54	0.30	14	0.11	0.036



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**Project:** NA-16176  
**Report Date:** September 15, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000234.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
070691	Soil	14.5	39.4	1.16	30.0	0.004	<1	2.66	0.004	0.03	<0.1	2.1	0.04	0.04	32	<0.1	0.21	8.0	2.52	<0.1	0.18
070692	Soil	9.9	30.8	0.97	25.2	0.005	<1	2.27	0.010	0.04	<0.1	1.9	0.03	0.04	49	<0.1	0.10	6.4	2.47	<0.1	0.14
070693	Soil	19.5	41.6	1.43	36.0	0.001	<1	3.12	0.003	0.03	<0.1	2.2	0.03	<0.02	21	<0.1	0.21	7.9	2.77	<0.1	0.23
070694	Soil	22.0	40.9	1.47	22.4	0.001	<1	3.14	0.003	0.03	<0.1	2.5	0.04	<0.02	23	<0.1	0.21	7.6	2.89	<0.1	0.15
070695	Soil	19.8	35.5	1.25	24.6	0.003	<1	2.77	0.004	0.03	<0.1	3.0	0.05	0.02	35	<0.1	0.17	7.5	3.90	<0.1	0.11
070696	Soil	19.2	35.9	1.23	24.0	0.003	<1	2.78	0.004	0.03	<0.1	2.9	0.05	0.02	43	0.2	0.16	7.4	4.01	<0.1	0.11
070697	Soil	15.8	35.3	1.57	20.7	0.002	<1	2.98	0.005	0.04	<0.1	2.1	0.03	<0.02	25	<0.1	0.14	7.3	1.63	0.1	0.15
070698	Soil	3.8	39.0	1.04	22.0	<0.001	<1	2.68	0.009	0.05	<0.1	2.8	0.05	<0.02	11	<0.1	0.09	7.8	3.89	<0.1	0.06
070699	Soil	7.4	39.7	1.09	22.1	<0.001	<1	2.77	0.006	0.05	<0.1	2.8	0.05	<0.02	7	<0.1	0.07	8.3	3.69	<0.1	0.03
070700	Soil	19.3	34.6	1.03	16.6	0.004	<1	2.37	0.007	0.04	<0.1	1.9	0.06	<0.02	27	0.2	0.07	6.9	1.50	<0.1	0.14
069301	Soil	12.7	30.2	0.91	29.8	0.003	<1	1.86	0.008	0.03	<0.1	2.7	0.04	<0.02	14	0.1	0.04	5.0	0.82	<0.1	0.05
069302	Soil	17.1	36.7	1.08	23.6	<0.001	<1	2.68	0.006	0.04	<0.1	2.6	0.04	<0.02	21	0.1	0.11	7.5	2.69	<0.1	0.07
069303	Soil	18.1	35.1	1.14	22.8	0.005	<1	2.55	0.005	0.03	<0.1	2.0	0.04	<0.02	15	<0.1	0.13	7.2	1.64	<0.1	0.08
069304	Soil	15.7	37.6	1.14	21.1	0.002	<1	2.73	0.004	0.03	<0.1	2.1	0.03	<0.02	28	0.1	0.13	7.6	2.27	<0.1	0.19
069305	Soil	18.2	34.5	1.15	21.1	0.003	<1	2.54	0.004	0.03	<0.1	2.4	0.04	0.03	38	<0.1	0.17	6.8	2.08	<0.1	0.19
069306	Soil	12.5	21.4	0.67	17.3	0.006	<1	1.66	0.010	0.03	<0.1	1.2	0.04	0.03	19	0.2	0.14	5.4	1.54	<0.1	0.06
069307	Soil	18.5	27.3	0.81	22.1	0.004	<1	1.96	0.004	0.03	<0.1	1.5	0.05	<0.02	25	0.2	0.11	6.8	1.37	<0.1	0.06
069308	Soil	23.3	35.9	1.46	18.8	<0.001	<1	2.99	0.005	0.03	<0.1	2.8	0.02	<0.02	<5	<0.1	0.25	7.6	2.26	<0.1	0.03
069309	Soil	12.6	33.1	1.02	22.4	0.002	<1	2.45	0.008	0.03	<0.1	2.0	0.03	<0.02	14	<0.1	0.10	6.4	2.66	<0.1	0.10
069310	Soil	6.1	41.3	1.14	21.2	<0.001	<1	2.86	0.008	0.03	<0.1	2.8	0.03	<0.02	12	<0.1	0.07	8.4	2.65	<0.1	0.07
069311	Soil	10.0	39.4	1.16	19.2	<0.001	<1	2.79	0.006	0.03	<0.1	2.8	0.02	<0.02	15	<0.1	0.07	8.3	2.62	<0.1	0.09
069312	Soil	7.1	39.7	1.06	24.1	0.002	<1	2.68	0.007	0.03	<0.1	2.6	0.04	<0.02	14	0.1	0.07	7.9	3.11	<0.1	0.10
069313	Soil	10.2	40.2	1.14	19.1	0.002	<1	2.75	0.007	0.03	<0.1	2.7	0.03	<0.02	25	0.1	0.10	8.0	2.81	<0.1	0.08
069314	Soil	14.0	39.1	1.30	18.0	0.001	<1	2.84	0.006	0.02	<0.1	2.7	<0.02	<0.02	18	<0.1	0.15	7.5	1.99	0.1	0.08
069315	Soil	4.9	36.6	0.96	16.1	0.003	<1	2.43	0.009	0.02	<0.1	2.2	0.02	<0.02	12	0.1	0.05	7.2	2.89	<0.1	0.09
069316	Soil	5.6	40.2	1.07	18.6	0.002	<1	2.65	0.008	0.03	<0.1	2.6	0.02	<0.02	22	<0.1	0.06	7.4	2.75	<0.1	0.08
069317	Soil	6.5	36.1	1.04	13.5	0.002	<1	2.57	0.009	0.03	<0.1	2.0	0.02	<0.02	9	<0.1	0.04	7.5	2.03	<0.1	0.06
069318	Soil	23.0	38.8	1.37	15.5	0.003	<1	2.83	0.009	0.05	<0.1	2.4	0.03	<0.02	15	<0.1	0.09	7.4	1.40	<0.1	0.12
069319	Soil	16.0	24.4	0.85	13.6	0.009	<1	1.83	0.009	0.03	<0.1	1.6	0.03	<0.02	9	0.1	0.04	5.6	1.28	<0.1	0.08
069320	Soil	20.8	28.5	0.93	25.3	<0.001	<1	2.25	0.003	0.02	<0.1	2.0	0.03	<0.02	9	<0.1	0.09	5.4	1.08	<0.1	0.05



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**Project:** NA-16176  
**Report Date:** September 15, 2016

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
070691	Soil	0.15	4.3	1.3	<0.05	5.6	2.35	31.3	0.02	<1	0.4	86.6	<10	<2
070692	Soil	0.17	4.1	5.8	<0.05	3.9	3.64	20.6	<0.02	<1	0.6	74.1	<10	<2
070693	Soil	0.05	3.1	1.3	<0.05	7.5	3.99	42.1	0.02	<1	0.8	106.2	<10	<2
070694	Soil	0.04	3.3	3.4	<0.05	5.2	4.93	44.3	<0.02	<1	0.9	120.9	<10	<2
070695	Soil	0.09	4.0	0.5	<0.05	4.8	6.16	41.6	0.02	<1	0.8	98.2	<10	<2
070696	Soil	0.11	4.3	6.1	<0.05	4.7	6.18	41.0	0.03	<1	0.7	95.2	<10	<2
070697	Soil	0.07	2.4	2.5	<0.05	5.4	3.76	33.1	0.07	<1	0.4	114.7	<10	<2
070698	Soil	0.03	3.5	1.2	<0.05	3.5	1.81	10.8	0.02	<1	0.3	81.2	<10	<2
070699	Soil	0.02	3.0	0.5	<0.05	4.0	2.34	17.9	0.02	<1	0.4	89.5	<10	<2
070700	Soil	0.13	3.5	42.3	<0.05	3.4	2.49	37.8	0.05	<1	0.1	78.9	<10	<2
069301	Soil	0.09	3.8	1.3	<0.05	2.3	4.88	25.6	<0.02	<1	0.2	61.6	<10	<2
069302	Soil	0.02	3.0	4.0	<0.05	2.9	2.99	34.8	0.02	<1	0.4	86.3	<10	<2
069303	Soil	0.16	3.9	0.8	<0.05	3.3	2.06	36.1	<0.02	<1	0.2	88.0	<10	<2
069304	Soil	0.10	3.5	10.6	<0.05	5.6	2.20	31.7	0.02	<1	0.3	88.8	<10	<2
069305	Soil	0.09	4.1	0.8	<0.05	6.2	3.73	38.1	0.02	<1	0.3	87.5	<10	<2
069306	Soil	0.12	3.6	2.5	<0.05	2.2	2.13	25.4	<0.02	<1	0.2	51.7	<10	<2
069307	Soil	0.20	3.7	0.8	<0.05	2.6	1.92	36.7	0.03	<1	0.3	62.7	<10	<2
069308	Soil	<0.02	2.6	4.0	<0.05	2.7	4.35	46.4	<0.02	<1	0.7	118.9	<10	<2
069309	Soil	0.07	3.8	1.7	<0.05	3.7	3.00	25.6	0.03	<1	0.4	80.6	<10	<2
069310	Soil	<0.02	2.6	2.9	<0.05	2.7	2.14	14.5	<0.02	<1	0.4	92.8	<10	<2
069311	Soil	0.02	3.2	0.7	<0.05	3.4	2.44	20.5	0.02	<1	0.3	97.6	<10	<2
069312	Soil	0.09	3.7	1.7	<0.05	3.5	2.52	15.1	<0.02	<1	0.5	88.8	<10	<2
069313	Soil	0.05	2.8	0.6	<0.05	3.1	3.34	21.8	<0.02	<1	0.3	93.2	<10	<2
069314	Soil	0.03	2.0	8.8	<0.05	3.5	4.28	28.1	0.02	<1	0.4	101.9	<10	<2
069315	Soil	0.08	2.5	0.3	<0.05	3.9	1.76	11.9	0.03	<1	0.2	79.7	<10	<2
069316	Soil	0.05	2.4	5.0	<0.05	3.0	2.10	13.2	0.03	<1	0.3	86.0	<10	<2
069317	Soil	0.07	2.3	0.8	<0.05	3.3	1.55	17.1	<0.02	<1	0.1	81.8	<10	<2
069318	Soil	0.06	3.1	8.2	<0.05	4.4	2.83	44.8	<0.02	<1	0.2	99.4	<10	<2
069319	Soil	0.15	3.7	1.5	<0.05	3.5	1.84	30.6	<0.02	<1	0.1	59.8	<10	<2
069320	Soil	0.03	2.3	5.9	<0.05	3.0	3.38	42.1	<0.02	<1	0.4	70.3	<10	<2



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**Project:** NA-16176  
**Report Date:** September 15, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000234.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	%
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
070101	Soil	0.43	27.16	35.76	91.9	38	35.9	20.1	858	4.74	11.3	1.3	1.3	13.7	11.5	0.08	0.46	0.49	12	0.12	0.062
070102	Soil	0.51	17.19	29.17	76.2	34	21.4	14.9	785	3.81	16.5	1.0	1.0	3.0	5.4	0.10	0.45	0.36	18	0.03	0.088
070103	Soil	0.29	28.14	35.95	89.0	53	32.8	20.5	447	3.66	6.2	1.1	1.4	13.9	20.0	0.07	0.46	0.34	10	0.16	0.041
070104	Soil	0.46	28.84	36.87	99.9	63	33.8	15.7	267	3.94	12.6	8.7	3.7	12.8	25.5	0.04	0.53	0.41	11	0.21	0.054
070105	Soil	0.44	20.03	13.38	72.4	44	24.9	7.7	198	3.07	6.0	2.7	1.1	7.6	17.5	0.02	0.33	0.30	12	0.17	0.059
070106	Soil	0.75	21.13	18.69	62.7	31	20.7	8.1	272	3.12	10.8	0.9	0.6	2.3	8.0	0.05	0.44	0.36	23	0.04	0.086
070107	Soil	0.74	17.61	17.96	56.3	24	17.9	9.1	494	2.97	8.9	0.9	0.8	1.7	7.6	0.06	0.43	0.37	24	0.05	0.081
070108	Soil	0.48	17.43	16.54	49.8	33	20.6	10.1	380	3.07	11.1	0.9	0.5	3.9	11.8	0.05	0.36	0.32	18	0.14	0.063
070109	Soil	0.77	21.33	31.35	78.4	23	23.6	11.4	612	3.44	10.8	1.7	2.0	2.2	11.6	0.08	0.56	0.38	29	0.11	0.077
070110	Soil	0.29	28.27	26.84	86.9	52	32.7	13.2	360	3.65	11.7	0.9	1.4	11.2	14.5	0.02	0.78	0.35	9	0.15	0.039
069241	Soil	0.78	30.70	36.66	101.0	95	25.9	14.5	1240	3.05	25.5	1.8	4.5	4.4	14.1	0.28	0.49	0.33	15	0.23	0.237
069242	Soil	0.83	52.02	39.45	62.6	152	32.3	17.1	878	3.98	80.2	0.8	12.2	6.2	3.7	0.08	1.00	0.54	15	0.03	0.098
069243	Soil	1.27	63.72	45.21	92.0	45	53.5	36.6	2469	5.40	45.0	1.3	6.6	7.1	5.1	0.07	1.61	0.76	17	0.07	0.064
069244	Soil	0.90	19.98	12.66	52.0	43	19.3	8.1	526	3.42	30.9	0.7	6.9	0.8	5.2	0.08	0.64	0.48	29	0.02	0.081
069245	Soil	1.03	45.61	39.35	78.3	46	43.0	26.9	1753	4.40	31.0	1.2	7.0	3.7	4.9	0.05	0.90	0.63	17	0.05	0.081
069246	Soil	0.77	41.22	32.23	99.0	67	53.2	19.8	1081	4.75	35.9	1.5	7.3	6.1	8.1	0.09	0.59	0.50	18	0.10	0.056
069247	Soil	0.36	7.51	7.38	20.0	73	5.9	2.7	80	1.19	17.5	0.4	5.3	1.9	3.4	0.04	0.30	0.26	18	0.02	0.054
069248	Soil	0.61	28.75	30.21	63.0	40	28.7	9.7	403	3.53	37.7	1.0	5.2	5.7	4.0	0.06	0.51	0.44	19	0.01	0.041
069249	Soil	0.52	62.43	31.95	113.0	40	53.6	25.7	1248	5.29	17.6	1.9	4.9	9.6	6.6	0.01	0.29	0.51	21	0.10	0.037
069250	Soil	0.61	56.08	28.86	51.3	119	22.9	12.8	966	2.63	14.2	1.7	6.6	1.4	5.9	0.05	0.36	0.47	13	0.07	0.082
069081	Soil	0.35	50.89	32.92	98.0	100	41.0	16.0	463	4.09	13.6	1.2	4.9	13.8	21.1	0.09	0.94	0.52	13	0.21	0.059
069082	Soil	0.14	41.27	25.55	74.2	61	37.8	15.2	548	3.63	30.8	0.8	10.1	12.5	12.0	0.06	0.43	0.39	13	0.14	0.044
069083	Soil	0.28	14.68	15.79	66.4	22	27.8	10.9	338	3.41	13.7	0.7	5.0	4.7	22.1	0.03	0.31	0.47	14	0.26	0.063
069084	Soil	0.33	60.65	21.79	70.2	136	38.2	13.4	446	3.25	75.3	4.9	15.9	6.9	27.1	0.07	0.69	0.39	15	0.32	0.064
069085	Soil	0.36	54.02	21.90	90.4	65	52.5	19.5	726	4.09	35.0	2.5	20.9	9.7	12.4	0.06	0.60	0.44	19	0.15	0.066
069086	Soil	0.65	59.91	42.80	95.1	57	45.4	21.8	721	4.68	42.8	1.1	11.8	9.4	4.3	0.03	0.93	0.47	18	0.04	0.057
069087	Soil	0.28	25.77	21.56	82.2	34	34.6	13.7	738	3.67	17.1	1.4	5.7	14.7	12.1	0.02	0.26	0.27	12	0.19	0.047
069088	Soil	0.57	171.28	58.81	117.1	50	56.1	28.1	1298	4.84	10.1	1.2	5.2	13.5	7.7	0.06	0.28	0.46	19	0.11	0.064
069089	Soil	0.69	44.68	30.30	106.2	58	44.2	19.2	648	4.37	34.3	1.8	47.1	10.7	7.5	0.07	0.55	0.38	22	0.11	0.075
069090	Soil	0.66	16.10	14.83	31.9	63	11.4	4.1	185	2.29	16.1	0.7	35.0	0.2	6.1	0.07	0.30	0.25	16	0.04	0.085



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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
070101	Soil	13.1	22.9	0.67	27.0	0.002	<1	1.96	0.002	0.02	<0.1	2.7	0.03	<0.02	21	<0.1	0.03	5.0	0.77	<0.1	0.04
070102	Soil	14.5	21.2	0.45	40.9	0.005	1	1.75	0.003	0.03	<0.1	1.0	0.06	0.05	27	0.2	0.03	5.1	1.13	<0.1	0.03
070103	Soil	16.5	22.1	0.68	23.1	<0.001	<1	1.82	0.003	0.02	<0.1	2.9	0.03	<0.02	17	<0.1	<0.02	4.5	0.58	<0.1	0.06
070104	Soil	16.9	22.8	0.69	35.6	<0.001	<1	1.97	0.003	0.03	<0.1	2.7	0.04	<0.02	11	0.2	0.03	5.1	0.79	<0.1	0.11
070105	Soil	17.2	19.1	0.66	48.7	0.002	<1	1.76	0.008	0.02	<0.1	2.4	0.04	0.02	20	0.3	0.02	4.3	0.66	<0.1	0.06
070106	Soil	22.0	24.1	0.48	45.3	0.008	<1	1.75	0.004	0.04	0.1	0.9	0.10	0.04	19	<0.1	0.03	6.1	1.97	<0.1	0.03
070107	Soil	19.9	21.9	0.41	45.7	0.005	<1	1.64	0.003	0.04	<0.1	0.8	0.10	0.04	14	0.2	0.02	6.0	1.77	<0.1	<0.02
070108	Soil	15.0	22.2	0.50	35.8	0.005	<1	1.75	0.010	0.03	<0.1	1.1	0.05	0.03	18	0.3	<0.02	5.7	1.21	<0.1	<0.02
070109	Soil	16.8	24.1	0.53	50.9	0.014	1	1.89	0.006	0.04	<0.1	1.7	0.08	0.06	20	0.3	0.03	5.7	1.42	<0.1	<0.02
070110	Soil	24.0	20.1	0.68	36.2	<0.001	<1	1.81	0.003	0.05	<0.1	2.6	0.04	<0.02	19	0.2	<0.02	4.3	0.68	<0.1	0.07
069241	Soil	10.8	23.2	0.57	40.6	0.003	2	1.61	0.006	0.06	<0.1	1.3	0.04	0.06	55	0.4	0.06	4.9	1.61	<0.1	0.06
069242	Soil	15.8	27.5	0.66	19.0	0.002	1	1.69	0.004	0.04	<0.1	2.4	0.04	0.05	47	0.3	0.11	4.5	0.89	<0.1	0.06
069243	Soil	19.8	28.7	1.43	19.4	0.001	2	2.54	0.002	0.03	<0.1	2.7	0.03	<0.02	6	<0.1	0.24	5.7	0.76	0.2	0.09
069244	Soil	17.6	26.8	0.38	30.3	0.009	<1	1.28	0.004	0.03	0.1	0.7	0.06	0.03	<5	<0.1	0.05	6.4	1.75	0.1	<0.02
069245	Soil	11.5	31.2	1.07	14.8	0.005	<1	2.21	0.007	0.02	<0.1	1.7	0.03	0.02	23	<0.1	0.17	6.8	1.56	<0.1	0.13
069246	Soil	11.7	34.7	1.22	24.2	0.002	<1	2.67	0.005	0.02	<0.1	2.2	0.03	0.02	10	<0.1	0.08	7.2	1.59	<0.1	0.09
069247	Soil	18.2	9.0	0.14	16.7	0.002	1	0.57	0.003	0.04	<0.1	0.6	0.04	0.03	16	<0.1	<0.02	4.3	1.22	<0.1	<0.02
069248	Soil	15.8	24.9	0.65	42.4	0.004	<1	1.99	0.007	0.04	<0.1	1.5	0.05	0.03	25	<0.1	0.05	5.9	1.39	<0.1	0.08
069249	Soil	15.0	43.7	1.36	17.4	0.001	<1	3.03	0.005	0.03	<0.1	3.4	<0.02	<0.02	11	<0.1	0.04	8.5	1.44	<0.1	0.11
069250	Soil	6.6	19.0	0.55	20.9	0.004	<1	1.55	0.012	0.03	<0.1	1.3	0.03	0.04	32	<0.1	0.08	4.4	1.93	<0.1	0.05
069081	Soil	16.9	26.8	0.84	30.0	0.002	1	1.96	0.002	0.03	<0.1	2.5	0.03	<0.02	10	<0.1	0.04	5.1	0.53	0.2	0.08
069082	Soil	28.5	29.6	0.90	50.4	0.001	<1	1.98	0.002	0.05	<0.1	2.2	0.02	<0.02	<5	<0.1	0.03	5.0	0.66	<0.1	0.04
069083	Soil	20.9	23.5	0.69	47.7	0.003	1	1.65	0.004	0.04	<0.1	1.2	0.03	0.02	<5	<0.1	0.05	5.6	1.38	<0.1	<0.02
069084	Soil	22.3	29.2	0.81	80.0	0.003	<1	1.79	0.007	0.08	<0.1	3.4	0.03	0.03	16	0.2	0.10	4.3	1.19	0.1	0.04
069085	Soil	30.2	44.7	1.29	58.8	0.003	<1	2.28	0.003	0.07	<0.1	3.5	0.02	<0.02	6	<0.1	0.07	5.8	0.79	<0.1	0.08
069086	Soil	25.4	36.1	1.03	28.9	0.002	<1	2.27	0.004	0.05	<0.1	2.6	0.03	<0.02	8	0.2	0.04	6.6	1.60	0.1	0.13
069087	Soil	19.4	28.9	0.95	36.4	<0.001	<1	2.21	0.003	0.03	<0.1	1.9	<0.02	<0.02	7	<0.1	0.09	5.9	1.53	0.1	0.06
069088	Soil	47.2	32.4	1.31	36.7	0.002	<1	2.75	0.007	0.05	<0.1	3.0	0.04	<0.02	12	<0.1	0.12	7.2	4.30	<0.1	0.04
069089	Soil	36.8	32.2	0.89	29.9	0.015	<1	2.19	0.003	0.04	<0.1	2.4	0.06	<0.02	35	<0.1	0.04	5.9	1.36	<0.1	0.02
069090	Soil	13.4	12.8	0.20	28.9	0.006	<1	1.08	0.015	0.03	<0.1	0.4	0.05	0.05	32	<0.1	0.05	4.3	0.93	<0.1	<0.02



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**Project:** NA-16176  
**Report Date:** September 15, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000234.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
070101	Soil	0.09	3.7	<0.1	<0.05	2.0	6.88	29.4	0.02	<1	0.6	62.0	<10	<2
070102	Soil	0.33	5.7	0.4	<0.05	0.8	4.50	33.7	0.04	<1	0.4	42.2	<10	<2
070103	Soil	0.03	2.4	0.4	<0.05	2.2	8.32	35.7	0.02	<1	0.5	58.7	<10	<2
070104	Soil	0.04	3.9	0.2	<0.05	3.7	7.84	35.1	0.02	<1	0.5	62.8	<10	<2
070105	Soil	0.12	4.5	0.2	<0.05	2.9	7.31	33.8	<0.02	<1	0.4	53.1	<10	<2
070106	Soil	0.29	7.5	0.5	<0.05	0.9	2.93	44.4	<0.02	<1	0.4	42.3	<10	<2
070107	Soil	0.30	7.0	0.7	<0.05	0.4	2.66	40.4	<0.02	<1	0.2	34.6	<10	<2
070108	Soil	0.35	5.3	0.4	<0.05	0.7	3.24	31.6	<0.02	<1	0.3	40.8	<10	<2
070109	Soil	0.57	7.4	0.4	<0.05	0.5	6.79	36.5	0.03	<1	0.6	38.1	<10	<2
070110	Soil	<0.02	4.1	0.3	<0.05	2.4	8.41	48.2	0.02	<1	0.5	54.4	<10	<2
069241	Soil	0.25	10.5	0.2	<0.05	1.5	2.27	22.6	<0.02	<1	0.2	42.5	<10	<2
069242	Soil	0.13	4.5	0.2	<0.05	2.7	4.72	33.0	0.03	<1	0.4	46.1	<10	<2
069243	Soil	0.02	1.9	0.2	<0.05	3.4	4.06	37.8	0.03	<1	0.5	94.6	<10	3
069244	Soil	0.22	8.0	0.5	<0.05	0.3	2.66	34.0	<0.02	<1	0.5	21.7	<10	<2
069245	Soil	0.12	2.9	0.3	<0.05	4.5	3.35	22.7	0.02	<1	0.6	76.3	<10	<2
069246	Soil	0.05	2.8	0.4	<0.05	3.1	2.54	22.8	0.02	<1	0.7	87.8	<10	<2
069247	Soil	0.12	5.5	0.2	<0.05	0.4	1.03	35.5	<0.02	<1	<0.1	7.3	<10	<2
069248	Soil	0.39	6.6	0.3	<0.05	2.7	1.68	31.0	0.02	<1	0.1	47.4	<10	<2
069249	Soil	0.03	2.1	0.1	<0.05	4.2	3.41	29.0	<0.02	<1	0.4	96.0	<10	<2
069250	Soil	0.13	3.1	0.3	<0.05	2.2	3.89	12.0	<0.02	<1	0.4	39.4	<10	<2
069081	Soil	0.07	2.5	0.2	<0.05	3.9	7.37	31.9	0.03	<1	0.4	69.0	10	<2
069082	Soil	0.07	4.6	0.3	<0.05	2.3	4.42	56.6	0.03	<1	0.6	64.1	<10	<2
069083	Soil	0.18	5.6	0.2	<0.05	1.0	1.34	38.3	<0.02	<1	0.2	49.3	<10	<2
069084	Soil	0.13	6.5	0.2	<0.05	2.1	7.53	42.3	<0.02	<1	1.0	52.1	<10	<2
069085	Soil	0.06	4.5	0.2	<0.05	3.6	5.86	56.9	0.02	1	0.5	76.6	<10	<2
069086	Soil	0.08	4.4	0.2	<0.05	4.5	2.46	47.4	<0.02	<1	0.3	69.7	<10	<2
069087	Soil	0.03	3.0	0.3	<0.05	2.2	2.60	38.7	<0.02	<1	0.3	66.5	<10	<2
069088	Soil	0.03	4.2	0.2	<0.05	2.5	4.20	87.4	0.03	<1	1.0	96.3	<10	<2
069089	Soil	0.24	4.7	0.3	<0.05	1.6	4.19	70.7	0.03	<1	0.3	66.9	<10	<2
069090	Soil	0.19	3.5	0.6	<0.05	0.4	1.83	25.3	<0.02	1	<0.1	14.4	<10	<2



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**Project:** NA-16176  
**Report Date:** September 15, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000234.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	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
069091	Soil	0.50	27.35	19.23	84.4	60	35.9	10.1	395	3.96	18.2	1.2	5.0	5.5	4.7	0.03	0.39	0.33	19	0.04	0.068
069092	Soil	0.48	59.38	50.45	73.2	127	27.7	11.7	295	3.38	41.7	2.7	11.3	5.1	7.0	0.05	0.41	0.42	15	0.07	0.077
069093	Soil	0.57	59.21	39.76	112.0	48	45.1	15.3	508	5.07	34.4	2.3	21.0	10.2	6.0	0.05	0.53	0.50	18	0.07	0.068
069094	Soil	0.66	100.67	45.43	156.7	59	66.4	40.3	1489	6.56	22.0	3.6	6.7	22.6	6.4	0.15	0.42	0.46	22	0.14	0.081
069095	Soil	0.48	53.55	30.73	113.6	47	48.4	17.6	571	5.41	19.5	2.5	5.2	11.6	3.7	0.04	0.42	0.41	20	0.04	0.047
069096	Soil	0.45	64.36	31.43	120.6	57	51.2	22.9	651	5.04	17.4	2.1	2.9	14.4	5.3	0.06	0.37	0.41	18	0.09	0.050
069097	Soil	0.65	74.35	51.16	110.9	138	43.2	26.8	800	4.92	23.5	3.0	3.8	9.9	6.5	0.06	0.61	0.59	17	0.07	0.067
069098	Soil	0.43	70.10	38.50	133.1	129	50.5	27.5	841	5.06	38.0	1.9	3.6	13.9	8.4	0.07	0.74	0.49	15	0.16	0.054
069099	Soil	0.37	43.77	24.52	90.3	83	36.5	14.0	569	3.68	53.3	1.7	8.6	9.5	11.1	0.06	0.52	0.45	13	0.15	0.044
069100	Soil	0.67	29.63	28.92	83.2	30	38.0	17.5	755	3.76	21.5	0.9	5.3	6.8	6.2	0.12	0.50	0.34	21	0.07	0.062
069201	Soil	0.75	25.49	20.20	48.3	48	22.6	10.4	361	2.84	8.3	1.1	3.8	6.0	7.4	0.05	0.73	0.39	19	0.04	0.069
069202	Soil	0.35	54.49	64.74	110.9	83	38.6	27.5	944	3.81	7.7	1.5	1.7	14.6	17.8	0.07	0.34	0.51	12	0.18	0.065
069203	Soil	0.52	18.78	24.57	55.4	21	16.3	7.5	318	2.82	4.4	0.8	1.3	1.7	6.2	0.06	0.35	0.36	17	0.03	0.078
069204	Soil	0.25	44.27	40.76	108.9	63	40.0	17.8	591	3.85	10.2	2.3	<0.2	17.2	12.1	0.10	0.51	0.46	13	0.13	0.052
069205	Soil	0.41	30.88	22.89	74.6	50	43.2	24.8	1225	5.26	4.5	0.6	0.6	6.6	12.0	0.05	0.36	0.17	65	0.14	0.091
069206	Soil	0.57	18.32	21.85	72.0	50	24.4	11.3	662	3.35	6.7	0.9	1.6	3.7	6.6	0.14	0.46	0.29	28	0.07	0.091
069207	Soil	0.37	21.02	18.70	61.4	26	22.5	8.8	365	2.56	12.1	1.0	3.0	5.9	7.6	0.04	0.65	0.25	14	0.08	0.057
069208	Soil	0.30	21.19	27.28	73.9	40	26.4	14.7	679	2.89	20.1	1.3	0.5	8.1	13.7	0.07	0.91	0.32	8	0.13	0.063
069209	Soil	0.59	45.55	52.16	113.8	144	48.2	29.6	1142	3.70	9.3	2.1	9.5	10.6	17.6	0.16	0.65	0.47	11	0.19	0.074
069210	Soil	0.45	32.05	26.97	68.1	60	39.1	22.5	842	3.88	9.6	1.1	3.9	14.1	17.4	0.04	0.69	0.33	21	0.23	0.065
069211	Soil	0.91	31.23	44.99	99.7	111	28.9	18.0	1030	3.29	8.4	2.7	3.2	4.8	36.1	0.10	0.54	0.34	10	0.41	0.098
069212	Soil	0.47	40.62	55.65	99.2	204	38.4	25.1	1236	3.70	7.9	4.9	3.4	11.1	50.8	0.11	0.40	0.41	12	0.49	0.077
069213	Soil	1.36	78.47	468.88	90.8	41	36.8	27.3	430	3.82	35.8	2.2	1.5	8.2	7.7	0.05	0.52	0.93	15	0.05	0.056
069214	Soil	0.30	17.88	19.07	59.4	27	17.0	7.4	309	2.69	10.5	0.8	0.6	5.8	3.4	0.04	0.47	0.35	9	0.02	0.053
069215	Soil	0.49	21.16	43.70	57.8	184	37.2	30.1	884	3.94	10.1	2.1	3.1	12.1	18.4	0.07	1.39	0.36	10	0.27	0.058
069216	Soil	0.51	48.45	49.79	74.4	173	37.1	28.1	630	3.92	7.9	2.5	<0.2	20.0	31.7	0.07	0.42	0.50	8	0.37	0.053
069217	Soil	0.36	36.72	40.67	75.9	146	44.1	27.0	602	4.17	7.5	1.6	1.4	20.1	21.6	0.04	1.17	0.46	7	0.25	0.048
069218	Soil	0.39	38.32	37.69	73.4	134	36.7	19.8	501	3.78	8.2	1.2	1.2	17.6	17.7	0.03	0.54	0.44	7	0.23	0.055
069219	Soil	0.35	33.96	35.92	77.9	104	30.7	16.8	460	3.45	8.8	1.0	1.1	15.8	17.0	0.07	0.41	0.44	9	0.20	0.053
069220	Soil	0.37	58.42	27.92	87.8	36	33.9	16.5	701	3.68	6.5	1.6	0.7	12.1	7.1	0.06	0.28	0.56	16	0.06	0.047



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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
069091	Soil	28.3	28.2	0.78	25.1	0.008	<1	2.03	0.006	0.03	<0.1	1.6	0.04	0.03	27	0.2	0.08	6.1	0.91	<0.1	0.05
069092	Soil	25.5	19.6	0.52	23.5	0.007	<1	1.64	0.013	0.03	<0.1	1.7	0.05	<0.02	18	<0.1	0.14	4.9	3.86	<0.1	0.06
069093	Soil	39.4	32.2	0.97	19.4	0.003	<1	2.46	0.004	0.03	<0.1	2.1	0.03	<0.02	18	<0.1	0.09	6.4	2.22	<0.1	0.09
069094	Soil	33.6	43.0	1.52	45.9	0.002	<1	3.55	0.004	0.03	<0.1	4.5	0.04	<0.02	8	<0.1	0.06	10.4	2.94	0.1	0.09
069095	Soil	27.1	39.6	1.16	18.4	0.002	<1	2.83	0.003	0.03	<0.1	2.5	0.03	<0.02	14	<0.1	0.07	8.4	2.45	<0.1	0.10
069096	Soil	23.1	36.6	1.20	20.3	0.002	1	2.77	0.004	0.03	<0.1	2.8	0.02	<0.02	<5	<0.1	0.05	7.9	2.15	<0.1	0.05
069097	Soil	33.0	35.2	0.97	24.2	0.003	<1	2.49	0.004	0.04	<0.1	2.0	0.06	<0.02	22	<0.1	0.10	6.9	4.58	<0.1	0.07
069098	Soil	34.0	31.5	0.98	22.6	0.002	1	2.30	0.003	0.04	<0.1	3.1	<0.02	<0.02	11	<0.1	0.10	6.0	1.36	0.1	0.24
069099	Soil	24.2	25.5	0.77	38.6	0.001	<1	2.10	0.010	0.04	<0.1	2.9	0.04	<0.02	11	0.1	0.07	5.9	1.76	<0.1	0.13
069100	Soil	22.6	31.5	0.87	23.9	0.010	<1	2.07	0.002	0.03	<0.1	2.0	0.03	<0.02	17	<0.1	0.02	6.2	0.92	<0.1	0.06
069201	Soil	13.0	20.9	0.49	21.4	0.015	<1	1.38	0.011	0.05	0.1	1.8	0.07	0.05	55	<0.1	0.03	5.7	1.12	<0.1	<0.02
069202	Soil	37.5	23.2	0.69	34.1	0.004	<1	1.88	0.006	0.03	<0.1	2.3	0.04	<0.02	14	<0.1	0.05	5.4	1.03	<0.1	0.05
069203	Soil	20.1	17.1	0.35	34.9	0.005	<1	1.21	0.004	0.03	<0.1	0.6	0.06	0.04	15	<0.1	<0.02	5.2	0.98	<0.1	0.03
069204	Soil	45.2	23.9	0.77	31.6	0.005	<1	1.97	0.004	0.06	<0.1	2.4	0.04	<0.02	38	<0.1	0.03	5.0	0.97	<0.1	0.10
069205	Soil	21.8	79.6	1.82	34.6	0.003	<1	3.15	0.002	0.04	<0.1	6.4	0.04	0.05	56	0.1	<0.02	8.1	0.67	0.1	0.11
069206	Soil	22.4	32.5	0.68	52.0	0.006	<1	1.87	0.004	0.05	<0.1	1.9	0.09	0.06	52	0.2	0.06	5.9	1.10	<0.1	0.07
069207	Soil	33.1	13.4	0.37	53.8	0.005	<1	1.49	0.010	0.05	<0.1	1.5	0.08	<0.02	22	<0.1	0.03	3.9	1.44	<0.1	0.06
069208	Soil	23.5	11.0	0.31	45.9	0.002	1	1.41	0.006	0.04	<0.1	1.8	0.05	0.02	29	<0.1	<0.02	3.2	1.45	<0.1	0.07
069209	Soil	36.4	20.7	0.61	36.8	0.005	3	1.62	0.008	0.05	<0.1	2.5	0.06	0.03	38	0.4	0.04	4.3	1.12	0.1	0.08
069210	Soil	36.7	34.0	0.96	34.9	0.002	<1	1.99	0.003	0.03	<0.1	4.1	0.05	<0.02	17	0.1	0.03	5.1	0.87	<0.1	0.12
069211	Soil	16.0	17.2	0.48	41.1	0.003	1	1.49	0.010	0.03	<0.1	1.7	0.05	0.05	37	0.5	0.03	4.2	0.77	<0.1	0.09
069212	Soil	21.9	24.4	0.65	61.7	0.002	2	2.12	0.009	0.05	<0.1	3.2	0.06	0.05	46	0.7	0.04	5.2	1.39	<0.1	0.18
069213	Soil	15.5	22.4	0.64	28.9	0.004	<1	1.96	0.003	0.03	<0.1	1.9	0.08	0.03	12	0.5	0.06	4.6	1.30	<0.1	0.09
069214	Soil	8.8	15.3	0.57	14.4	0.003	<1	1.38	0.007	0.02	<0.1	1.4	0.03	<0.02	17	0.2	0.03	3.8	0.61	<0.1	0.06
069215	Soil	10.6	20.5	0.66	36.5	<0.001	<1	1.99	0.003	0.03	<0.1	3.5	0.05	0.04	43	0.2	0.04	4.5	1.22	<0.1	0.15
069216	Soil	8.0	19.8	0.73	32.7	<0.001	<1	1.72	0.007	0.04	<0.1	2.5	<0.02	0.04	33	0.2	0.03	4.0	1.56	<0.1	0.14
069217	Soil	9.4	19.0	0.73	22.2	<0.001	<1	1.52	0.002	0.02	<0.1	2.8	0.04	0.05	30	<0.1	0.02	3.9	0.51	<0.1	0.21
069218	Soil	12.3	18.0	0.64	21.2	<0.001	<1	1.39	0.003	0.02	<0.1	2.7	0.03	0.05	36	<0.1	0.04	3.7	0.50	<0.1	0.24
069219	Soil	17.9	16.7	0.59	26.7	0.002	<1	1.37	0.004	0.02	<0.1	2.4	0.02	<0.02	23	<0.1	0.06	3.5	0.40	<0.1	0.16
069220	Soil	15.9	25.8	0.77	34.8	0.006	<1	1.97	0.003	0.02	<0.1	1.9	0.03	<0.02	<5	<0.1	0.08	5.3	0.85	<0.1	0.05



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Project: NA-16176

Report Date: September 15, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
069091	Soil	0.23	4.5	0.2	<0.05	2.9	2.40	54.0	<0.02	<1	0.2	61.3	<10	<2
069092	Soil	0.17	4.4	0.2	<0.05	2.3	2.93	49.4	0.03	<1	0.4	44.5	<10	<2
069093	Soil	0.08	3.6	0.2	<0.05	3.7	3.16	74.6	<0.02	<1	0.6	80.0	<10	<2
069094	Soil	<0.02	2.6	0.3	<0.05	6.1	5.46	64.8	0.04	<1	0.6	131.4	<10	<2
069095	Soil	0.07	4.2	0.2	<0.05	3.4	2.96	52.3	0.02	<1	0.9	96.8	<10	<2
069096	Soil	0.03	2.7	0.2	<0.05	4.1	2.87	43.7	0.02	<1	0.3	98.4	<10	<2
069097	Soil	0.09	4.9	0.2	<0.05	2.4	3.94	64.4	0.03	<1	0.6	82.1	<10	<2
069098	Soil	<0.02	2.1	0.4	<0.05	10.1	4.36	66.2	0.03	<1	0.4	80.8	<10	2
069099	Soil	0.06	4.2	0.4	<0.05	3.8	5.13	45.4	<0.02	<1	0.6	68.0	<10	<2
069100	Soil	0.27	3.4	0.4	<0.05	2.2	3.03	44.4	<0.02	<1	0.6	61.9	<10	<2
069201	Soil	0.30	6.3	1.4	<0.05	1.4	3.83	26.3	0.03	<1	0.6	31.0	<10	<2
069202	Soil	0.07	3.4	0.4	<0.05	3.4	11.45	73.3	<0.02	<1	0.5	54.1	<10	<2
069203	Soil	0.18	6.0	0.5	<0.05	2.0	2.79	38.7	<0.02	<1	0.4	23.9	<10	<2
069204	Soil	0.17	5.4	0.7	<0.05	4.9	10.37	86.7	<0.02	<1	0.2	49.2	<10	<2
069205	Soil	0.13	4.6	0.5	<0.05	3.4	7.13	50.6	<0.02	<1	0.4	81.9	<10	<2
069206	Soil	0.30	9.9	0.5	<0.05	1.8	4.54	48.1	<0.02	<1	0.3	41.0	<10	<2
069207	Soil	0.19	8.4	0.3	<0.05	2.1	5.75	67.5	<0.02	<1	0.7	19.3	<10	<2
069208	Soil	0.09	6.9	0.3	<0.05	2.0	6.28	47.3	<0.02	<1	0.7	17.5	<10	<2
069209	Soil	0.17	4.4	0.9	<0.05	4.4	14.16	74.7	0.06	<1	0.6	38.1	<10	<2
069210	Soil	0.06	2.9	0.3	<0.05	6.7	13.80	82.3	0.03	<1	0.7	55.6	<10	<2
069211	Soil	0.19	3.7	0.3	<0.05	3.7	9.95	33.4	0.03	<1	0.7	39.2	<10	<2
069212	Soil	0.18	5.3	0.3	<0.05	6.5	16.18	39.7	0.04	<1	0.8	52.6	<10	<2
069213	Soil	0.28	4.9	0.3	<0.05	2.9	7.91	37.2	0.02	<1	1.0	59.1	<10	<2
069214	Soil	0.11	2.8	0.2	<0.05	2.1	2.80	17.6	<0.02	<1	0.2	41.2	<10	<2
069215	Soil	0.05	3.6	0.4	<0.05	5.6	18.87	27.9	0.05	<1	1.0	57.1	<10	<2
069216	Soil	<0.02	2.9	0.5	<0.05	8.9	8.85	17.3	0.02	<1	1.0	58.2	<10	4
069217	Soil	<0.02	1.4	0.2	<0.05	14.1	9.39	19.7	0.03	<1	0.6	61.5	<10	<2
069218	Soil	<0.02	1.5	0.3	<0.05	14.0	9.59	26.2	0.02	<1	0.5	53.6	<10	<2
069219	Soil	0.03	1.8	0.2	<0.05	9.7	9.23	35.7	<0.02	<1	0.4	47.9	<10	<2
069220	Soil	0.08	3.0	0.1	<0.05	2.5	5.29	32.0	<0.02	<1	0.4	71.1	<10	<2



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**Project:** NA-16176  
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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
069221	Soil	0.52	38.83	30.42	82.1	16	33.0	17.1	443	3.67	12.1	1.2	1.4	9.2	6.6	0.08	0.49	0.43	17	0.07	0.053	
069222	Soil	0.76	51.26	49.97	85.3	79	35.3	29.2	707	3.98	21.1	1.7	3.1	7.6	5.6	0.09	0.76	0.53	16	0.06	0.085	
069223	Soil	0.37	69.42	29.08	78.9	104	44.0	27.7	716	4.34	20.4	2.9	3.1	16.3	30.3	0.04	0.78	0.49	11	0.28	0.064	
069224	Soil	0.52	32.87	25.14	67.0	44	32.9	16.3	582	3.83	15.4	1.3	2.0	9.2	11.1	0.07	0.60	0.41	13	0.14	0.070	
069225	Soil	0.38	51.98	36.39	93.0	124	42.5	22.6	611	4.16	14.3	1.8	3.8	12.6	25.1	0.08	0.60	0.51	11	0.29	0.069	
069226	Soil	0.45	54.27	39.19	103.9	149	46.4	22.7	616	4.48	15.4	1.8	2.8	12.0	26.5	0.10	0.66	0.52	13	0.34	0.063	
069227	Soil	0.38	39.84	29.13	84.7	118	39.3	17.8	500	4.05	13.3	1.5	2.9	11.1	25.1	0.10	0.65	0.40	11	0.36	0.066	
069228	Soil	0.36	8.93	7.83	26.0	42	7.4	3.6	242	1.37	4.3	0.6	0.3	0.2	10.3	0.01	0.21	0.20	14	0.13	0.050	
069229	Soil	0.39	9.07	8.46	24.2	43	6.9	3.9	381	1.29	4.0	0.6	0.6	0.2	10.1	0.01	0.21	0.18	13	0.13	0.057	
069230	Soil	0.37	35.80	31.80	79.6	75	37.9	15.0	486	4.05	24.1	2.0	3.3	10.5	14.0	0.06	0.60	0.42	12	0.16	0.045	
069231	Soil	0.45	35.68	35.08	80.2	145	33.6	15.2	750	3.99	21.1	1.4	3.0	6.6	33.1	0.08	0.68	0.41	11	0.55	0.099	
069232	Soil	0.42	34.49	29.13	84.2	90	32.9	15.0	573	3.60	21.5	2.3	3.3	11.0	20.4	0.07	0.53	0.37	11	0.23	0.057	
069233	Soil	0.14	57.76	8.56	72.3	93	37.2	14.2	566	3.07	4.0	0.6	3.5	12.5	8.4	0.02	0.19	0.34	11	0.23	0.059	
069234	Soil	0.32	44.88	25.23	75.3	106	40.2	17.2	973	3.82	37.8	0.7	19.1	9.7	8.2	0.06	0.60	0.40	16	0.16	0.063	
069235	Soil	0.43	46.03	39.78	92.1	123	35.0	17.5	518	3.65	22.9	2.7	10.1	10.7	33.2	0.09	0.65	0.43	11	0.56	0.063	
069236	Soil	0.44	54.41	45.28	97.4	135	38.8	22.6	755	3.82	26.6	2.4	6.3	12.7	27.2	0.10	0.85	0.52	11	0.41	0.057	
069237	Soil	0.46	71.17	25.59	72.6	48	40.0	19.9	641	3.65	51.5	0.9	10.2	6.0	6.4	0.04	0.61	0.41	15	0.06	0.044	
069238	Soil	0.54	53.67	32.23	84.1	78	43.3	17.1	512	4.04	45.8	0.5	9.3	8.2	9.7	0.02	0.82	0.47	15	0.13	0.043	
069239	Soil	0.30	64.09	31.66	114.3	31	49.3	24.1	725	4.94	25.8	1.2	4.6	10.9	7.7	0.03	0.28	0.44	18	0.09	0.043	
069240	Soil	0.32	36.88	23.77	99.0	26	43.6	16.8	670	4.73	21.3	1.0	5.0	7.6	3.5	0.01	0.26	0.42	17	0.05	0.046	



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**Project:** NA-16176  
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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
		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
069221	Soil	19.2	25.1	0.74	27.4	0.008	<1	1.86	0.002	0.02	<0.1	1.6	0.04	<0.02	5	<0.1	0.05	4.9	0.62	<0.1	0.09	
069222	Soil	11.6	27.7	0.75	20.3	0.004	<1	1.93	0.002	0.02	<0.1	1.5	0.04	0.02	23	0.4	0.05	5.3	0.65	<0.1	0.12	
069223	Soil	8.0	25.3	0.87	25.0	<0.001	<1	2.09	0.003	0.03	<0.1	2.0	0.03	0.03	12	<0.1	0.05	5.2	0.82	<0.1	0.09	
069224	Soil	9.2	21.9	0.63	24.3	0.001	<1	1.80	0.002	0.02	<0.1	1.3	0.03	0.03	17	0.1	0.06	4.5	0.74	<0.1	0.06	
069225	Soil	13.3	21.7	0.72	28.2	0.002	<1	1.82	0.003	0.02	<0.1	2.3	0.02	<0.02	22	0.1	0.07	4.4	0.49	<0.1	0.06	
069226	Soil	14.6	24.8	0.78	31.1	0.002	<1	1.96	0.002	0.03	<0.1	2.9	0.02	<0.02	30	0.2	0.08	5.1	0.47	<0.1	0.15	
069227	Soil	14.4	22.6	0.71	24.9	0.002	<1	1.78	0.002	0.03	<0.1	2.6	<0.02	<0.02	14	0.1	0.06	4.3	0.37	<0.1	0.09	
069228	Soil	7.5	9.9	0.16	33.5	0.006	<1	0.92	0.016	0.02	<0.1	0.3	0.05	0.03	13	<0.1	<0.02	3.4	0.78	<0.1	<0.02	
069229	Soil	7.2	9.5	0.14	36.6	0.006	<1	0.93	0.017	0.02	<0.1	0.3	0.05	0.03	14	0.1	<0.02	3.5	0.76	<0.1	<0.02	
069230	Soil	14.4	24.2	0.67	36.5	0.001	<1	1.89	0.002	0.04	<0.1	2.1	0.03	<0.02	19	<0.1	0.06	4.6	0.49	<0.1	0.06	
069231	Soil	12.6	21.9	0.55	41.8	0.002	<1	1.69	0.002	0.03	<0.1	2.4	0.04	0.03	30	0.2	0.05	4.1	0.52	<0.1	0.09	
069232	Soil	15.3	22.1	0.70	32.8	0.002	<1	1.68	0.003	0.03	<0.1	2.5	0.02	<0.02	19	<0.1	0.05	4.6	0.45	<0.1	0.08	
069233	Soil	33.0	35.9	1.38	37.0	<0.001	<1	2.09	0.005	0.04	<0.1	1.6	<0.02	<0.02	<5	<0.1	0.08	5.3	0.90	<0.1	0.06	
069234	Soil	20.2	37.3	1.04	51.6	0.002	<1	1.98	0.003	0.03	<0.1	2.4	0.02	<0.02	22	<0.1	0.07	4.9	0.83	<0.1	0.03	
069235	Soil	13.0	24.0	0.70	35.9	0.001	<1	1.68	0.004	0.03	<0.1	2.4	0.03	0.04	18	0.2	0.05	4.5	0.57	<0.1	0.18	
069236	Soil	13.5	25.0	0.73	45.3	0.001	<1	1.83	0.003	0.04	<0.1	2.7	0.04	0.02	24	0.2	0.05	4.8	0.68	<0.1	0.15	
069237	Soil	15.1	31.2	0.95	52.5	0.001	<1	2.06	0.006	0.05	<0.1	2.8	0.03	<0.02	10	<0.1	0.07	5.3	1.26	<0.1	0.12	
069238	Soil	18.2	34.8	1.15	35.1	<0.001	<1	2.18	0.003	0.05	<0.1	3.2	0.02	<0.02	7	<0.1	0.09	5.7	0.62	<0.1	0.08	
069239	Soil	18.4	38.5	1.24	31.7	0.001	<1	2.98	0.020	0.10	<0.1	2.9	<0.02	<0.02	<5	<0.1	0.08	8.0	0.68	0.1	0.20	
069240	Soil	15.3	36.7	1.10	25.7	0.001	<1	2.63	0.003	0.03	<0.1	2.0	0.02	<0.02	<5	<0.1	0.06	7.3	0.73	<0.1	0.07	



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	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
069221	Soil	0.19	3.1	0.2	<0.05	3.6	4.30	39.2	0.02	<1	0.5	63.2	<10	<2
069222	Soil	0.16	2.8	0.5	<0.05	4.5	3.34	23.6	<0.02	<1	0.3	64.1	<10	<2
069223	Soil	<0.02	2.0	0.2	<0.05	3.6	4.71	16.3	<0.02	<1	0.3	66.4	<10	<2
069224	Soil	0.12	2.8	0.4	<0.05	2.8	3.53	20.5	0.03	<1	0.4	53.0	<10	<2
069225	Soil	0.05	1.9	0.1	<0.05	3.6	7.88	28.1	0.02	<1	0.5	56.0	<10	<2
069226	Soil	0.06	2.0	0.2	<0.05	4.9	9.93	29.7	0.02	<1	0.6	64.2	<10	<2
069227	Soil	0.06	1.8	0.2	<0.05	4.4	8.09	31.2	<0.02	<1	0.4	51.9	<10	<2
069228	Soil	0.17	3.9	0.4	<0.05	0.4	1.63	14.9	<0.02	<1	0.2	12.8	<10	<2
069229	Soil	0.19	3.8	0.4	<0.05	0.3	1.58	14.1	<0.02	<1	0.2	11.1	<10	<2
069230	Soil	0.06	3.4	0.2	<0.05	2.4	6.47	30.0	<0.02	<1	0.4	55.0	<10	<2
069231	Soil	0.13	4.0	0.2	<0.05	2.5	9.20	24.7	0.03	<1	0.3	45.4	<10	<2
069232	Soil	0.06	2.8	0.3	<0.05	3.6	7.59	30.5	<0.02	<1	0.6	56.2	<10	<2
069233	Soil	<0.02	1.9	0.9	<0.05	3.1	3.63	63.3	<0.02	<1	0.4	71.6	<10	<2
069234	Soil	0.10	3.3	0.4	<0.05	1.3	3.90	41.1	0.02	<1	0.6	66.2	<10	<2
069235	Soil	0.09	2.8	0.4	<0.05	5.3	8.48	26.1	0.02	<1	0.5	54.9	<10	<2
069236	Soil	0.09	3.6	0.2	<0.05	6.3	8.53	27.0	0.02	<1	0.6	56.1	<10	<2
069237	Soil	0.04	3.9	0.1	<0.05	4.0	4.59	29.4	<0.02	<1	0.6	59.4	<10	<2
069238	Soil	<0.02	2.7	0.2	<0.05	3.8	5.21	34.4	<0.02	<1	0.4	72.0	<10	<2
069239	Soil	<0.02	3.1	0.1	<0.05	11.0	2.91	37.5	<0.02	<1	0.3	85.8	<10	<2
069240	Soil	0.06	3.0	0.2	<0.05	2.8	2.22	32.2	<0.02	<1	0.3	80.5	<10	<2



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
Pulp Duplicates																					
070980	Soil	0.73	84.90	46.47	103.0	101	45.6	41.8	979	4.48	199.6	2.7	33.8	6.6	6.3	0.05	0.53	0.46	17	0.05	0.050
REP 070980	QC	0.75	84.64	47.84	105.5	107	46.1	41.0	987	4.56	199.4	2.8	34.6	6.8	6.4	0.04	0.55	0.47	17	0.05	0.051
069066	Soil	0.36	40.14	37.97	96.2	136	39.6	21.9	530	3.93	6.6	1.3	0.6	18.4	37.7	0.07	0.36	0.52	8	0.69	0.054
REP 069066	QC	0.38	40.66	36.72	92.3	115	39.2	22.2	499	3.84	6.2	1.3	0.8	17.4	37.0	0.07	0.35	0.45	7	0.69	0.055
069022	Soil	0.45	34.98	20.18	85.4	36	38.3	16.7	596	4.10	36.6	1.6	6.6	5.4	4.6	0.02	0.31	0.26	19	0.03	0.058
REP 069022	QC	0.42	34.82	19.48	85.6	34	37.3	16.5	580	4.12	35.1	1.6	7.2	5.3	4.5	0.02	0.30	0.26	19	0.03	0.057
070668	Soil	0.64	28.88	34.65	58.3	38	21.4	11.9	330	2.84	131.0	1.1	11.3	3.4	7.5	0.05	1.12	0.29	14	0.03	0.084
REP 070668	QC	0.61	28.90	35.37	57.1	42	21.6	11.6	321	2.86	134.8	1.1	12.0	3.8	7.4	0.05	1.13	0.29	13	0.03	0.085
070814	Soil	0.62	17.60	15.90	49.4	26	17.0	6.7	223	2.46	6.1	0.7	0.6	1.8	6.4	0.03	0.32	0.36	20	0.05	0.067
REP 070814	QC	0.57	17.90	15.74	51.3	29	17.2	6.3	218	2.44	5.7	0.7	0.8	1.9	6.3	0.04	0.30	0.35	20	0.05	0.072
070950	Soil	0.85	22.23	40.79	79.1	117	37.6	14.5	750	4.43	95.7	0.7	5.4	4.0	4.6	0.07	0.66	0.46	18	0.04	0.088
REP 070950	QC	0.82	22.62	42.13	84.5	125	37.0	14.6	729	4.47	98.9	0.8	6.3	3.9	4.8	0.09	0.68	0.46	19	0.04	0.095
070106	Soil	0.75	21.13	18.69	62.7	31	20.7	8.1	272	3.12	10.8	0.9	0.6	2.3	8.0	0.05	0.44	0.36	23	0.04	0.086
REP 070106	QC	0.78	20.44	18.05	63.1	28	20.7	7.8	282	3.18	10.5	0.9	2.2	2.0	7.7	0.04	0.46	0.35	24	0.04	0.084
069202	Soil	0.35	54.49	64.74	110.9	83	38.6	27.5	944	3.81	7.7	1.5	1.7	14.6	17.8	0.07	0.34	0.51	12	0.18	0.065
REP 069202	QC	0.38	57.22	64.83	109.6	90	40.1	26.7	967	3.86	7.9	1.4	0.4	14.8	17.9	0.09	0.37	0.51	12	0.18	0.068
069217	Soil	0.36	36.72	40.67	75.9	146	44.1	27.0	602	4.17	7.5	1.6	1.4	20.1	21.6	0.04	1.17	0.46	7	0.25	0.048
REP 069217	QC	0.36	37.49	40.54	80.3	163	46.3	28.9	626	4.30	7.8	1.6	1.7	20.2	22.7	0.05	1.22	0.46	8	0.26	0.050
Reference Materials																					
STD DS10	Standard	14.71	144.94	155.06	358.0	1822	73.0	13.5	897	2.76	45.5	2.6	76.6	7.2	60.2	2.34	8.67	11.08	42	1.08	0.080
STD DS10	Standard	14.98	142.04	158.96	355.3	1904	74.7	13.4	916	2.72	48.1	2.6	104.3	7.4	63.7	2.61	9.45	11.74	41	1.06	0.081
STD DS10	Standard	15.55	141.80	148.83	360.3	1818	75.3	12.9	888	2.72	48.8	2.7	89.9	7.5	60.1	2.39	9.48	11.31	42	1.05	0.079
STD DS10	Standard	14.89	142.02	149.63	352.8	1857	73.4	13.4	888	2.74	46.5	2.6	79.3	7.4	59.5	2.38	9.06	11.32	43	1.07	0.077
STD DS10	Standard	15.27	151.57	148.38	355.6	1751	75.1	13.0	891	2.71	44.5	2.6	74.9	7.4	67.6	2.57	9.62	11.92	42	1.07	0.075
STD DS10	Standard	15.79	161.05	156.23	368.2	1897	78.5	13.3	899	2.86	46.4	2.7	106.1	8.0	71.8	2.55	9.85	12.43	43	1.11	0.076
STD DS10	Standard	14.97	143.63	149.63	361.5	1798	76.4	13.6	936	2.75	48.0	2.5	90.1	7.0	60.0	2.31	9.37	11.14	42	1.07	0.076
STD DS10	Standard	15.24	141.83	149.00	359.7	1830	71.7	12.7	906	2.77	47.4	2.6	70.3	7.2	60.8	2.30	9.08	11.14	44	1.09	0.083
STD DS10	Standard	15.68	146.37	152.62	378.2	1887	74.6	13.1	944	2.85	48.0	2.6	72.9	7.3	62.7	2.45	9.33	11.15	42	1.09	0.081



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
Pulp Duplicates																					
070980	Soil	11.0	33.8	1.01	21.3	0.002	<1	2.45	0.007	0.02	<0.1	2.5	0.03	<0.02	13	0.1	0.07	7.0	1.96	<0.1	0.06
REP 070980	QC	11.3	34.3	1.00	21.9	0.002	<1	2.50	0.008	0.02	<0.1	2.8	0.03	<0.02	12	0.1	0.08	7.1	2.01	<0.1	0.04
069066	Soil	12.2	18.2	0.70	21.6	0.002	1	1.48	0.003	0.03	<0.1	2.6	<0.02	0.03	45	<0.1	0.06	3.8	0.57	<0.1	0.22
REP 069066	QC	10.9	17.1	0.68	20.0	0.001	<1	1.43	0.002	0.03	<0.1	2.3	0.04	0.03	30	<0.1	0.02	3.7	0.53	<0.1	0.20
069022	Soil	4.0	34.4	0.87	16.7	0.003	<1	2.26	0.009	0.02	<0.1	2.1	0.02	<0.02	22	<0.1	0.05	7.5	2.49	<0.1	0.11
REP 069022	QC	3.8	33.0	0.87	16.6	0.003	<1	2.26	0.009	0.02	<0.1	2.2	<0.02	<0.02	<5	<0.1	0.04	7.4	2.35	<0.1	0.08
070668	Soil	11.5	14.4	0.28	23.8	0.004	2	1.16	0.009	0.04	<0.1	1.0	0.06	0.04	22	0.3	0.05	3.8	1.04	<0.1	0.04
REP 070668	QC	12.0	14.2	0.30	24.4	0.004	1	1.15	0.009	0.04	0.1	1.0	0.06	0.04	27	0.5	0.04	3.7	1.05	<0.1	0.05
070814	Soil	13.3	18.6	0.43	19.5	0.016	1	1.27	0.010	0.03	0.1	0.8	0.05	<0.02	8	<0.1	0.02	5.0	0.95	<0.1	<0.02
REP 070814	QC	13.0	17.8	0.43	19.0	0.016	<1	1.29	0.010	0.03	<0.1	1.0	0.06	<0.02	13	0.3	0.03	4.8	0.94	0.1	<0.02
070950	Soil	12.8	38.1	0.92	31.5	0.003	<1	2.08	0.006	0.03	<0.1	1.8	0.02	0.03	13	0.2	0.08	6.4	0.90	<0.1	0.07
REP 070950	QC	13.0	38.2	0.91	32.3	0.003	<1	2.12	0.007	0.03	<0.1	1.9	0.02	0.03	14	<0.1	0.08	6.9	0.97	<0.1	0.06
070106	Soil	22.0	24.1	0.48	45.3	0.008	<1	1.75	0.004	0.04	0.1	0.9	0.10	0.04	19	<0.1	0.03	6.1	1.97	<0.1	0.03
REP 070106	QC	22.7	23.5	0.48	47.3	0.008	1	1.77	0.003	0.04	0.1	1.0	0.11	0.04	15	0.4	<0.02	6.2	1.95	<0.1	<0.02
069202	Soil	37.5	23.2	0.69	34.1	0.004	<1	1.88	0.006	0.03	<0.1	2.3	0.04	<0.02	14	<0.1	0.05	5.4	1.03	<0.1	0.05
REP 069202	QC	38.1	23.7	0.70	35.4	0.004	<1	1.90	0.005	0.03	<0.1	2.4	0.03	<0.02	27	<0.1	0.03	5.2	1.04	<0.1	0.06
069217	Soil	9.4	19.0	0.73	22.2	<0.001	<1	1.52	0.002	0.02	<0.1	2.8	0.04	0.05	30	<0.1	0.02	3.9	0.51	<0.1	0.21
REP 069217	QC	9.3	19.9	0.75	21.4	<0.001	<1	1.56	0.003	0.03	<0.1	2.8	0.04	0.06	49	<0.1	0.05	4.0	0.50	<0.1	0.25
Reference Materials																					
STD DS10	Standard	16.0	56.0	0.79	353.6	0.071	7	1.06	0.070	0.34	3.2	2.9	5.23	0.27	269	2.4	4.82	4.4	2.69	<0.1	0.06
STD DS10	Standard	16.8	55.9	0.77	372.3	0.074	7	1.04	0.069	0.33	3.6	3.0	5.71	0.27	287	2.4	5.22	4.4	2.81	<0.1	0.05
STD DS10	Standard	17.3	55.3	0.77	370.1	0.072	7	1.05	0.069	0.34	3.3	3.1	5.32	0.27	287	2.5	4.91	4.6	2.79	<0.1	0.06
STD DS10	Standard	17.5	56.2	0.77	355.8	0.075	7	1.10	0.072	0.34	3.3	3.0	5.42	0.27	284	2.5	5.11	4.3	2.82	<0.1	0.05
STD DS10	Standard	18.2	57.3	0.77	358.6	0.080	6	1.06	0.069	0.33	3.3	3.1	5.13	0.27	267	1.8	4.93	3.9	2.73	<0.1	0.07
STD DS10	Standard	18.9	56.8	0.80	380.2	0.084	7	1.10	0.072	0.35	3.4	3.0	5.33	0.28	298	3.2	5.46	4.7	2.89	0.1	0.04
STD DS10	Standard	16.5	55.5	0.78	359.0	0.073	8	1.05	0.068	0.33	3.2	3.0	5.15	0.27	300	2.4	5.10	4.5	2.71	<0.1	0.05
STD DS10	Standard	17.7	55.1	0.78	366.3	0.075	7	1.10	0.072	0.34	3.3	3.2	5.47	0.28	274	2.3	5.10	4.6	2.92	<0.1	0.06
STD DS10	Standard	18.0	56.4	0.80	380.0	0.076	6	1.11	0.073	0.35	3.5	3.2	5.38	0.27	269	2.2	5.28	4.6	2.93	<0.1	0.05



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates														
070980	Soil	0.04	2.3	0.3	<0.05	2.4	3.74	22.6	<0.02	<1	0.6	76.1	<10	<2
REP 070980	QC	0.03	2.3	0.3	<0.05	2.9	3.85	23.3	0.03	<1	0.3	82.2	<10	<2
069066	Soil	0.02	1.6	0.2	<0.05	14.9	9.06	25.4	0.03	<1	0.5	56.2	<10	2
REP 069066	QC	<0.02	1.5	0.2	<0.05	14.9	8.63	22.8	0.02	<1	0.5	57.5	<10	<2
069022	Soil	0.11	3.0	0.2	<0.05	3.0	1.32	8.8	0.03	<1	0.1	67.1	<10	<2
REP 069022	QC	0.10	2.9	0.2	<0.05	3.1	1.34	8.4	<0.02	<1	0.2	68.2	<10	<2
070668	Soil	0.17	5.5	0.4	<0.05	2.2	2.68	24.6	<0.02	<1	0.3	16.3	<10	<2
REP 070668	QC	0.17	5.4	0.9	<0.05	2.2	2.62	25.4	<0.02	<1	0.3	17.1	<10	<2
070814	Soil	0.26	6.1	0.7	<0.05	0.2	2.01	25.9	<0.02	<1	0.4	30.7	<10	<2
REP 070814	QC	0.25	6.2	0.9	<0.05	0.2	1.94	25.9	<0.02	<1	0.3	30.4	<10	<2
070950	Soil	0.14	4.0	17.5	<0.05	1.9	2.20	26.4	<0.02	<1	0.4	61.3	<10	<2
REP 070950	QC	0.15	4.3	18.0	<0.05	2.0	2.16	27.5	0.03	<1	0.4	67.4	<10	<2
070106	Soil	0.29	7.5	0.5	<0.05	0.9	2.93	44.4	<0.02	<1	0.4	42.3	<10	<2
REP 070106	QC	0.27	7.6	0.6	<0.05	0.4	3.01	45.1	<0.02	<1	0.7	41.5	<10	<2
069202	Soil	0.07	3.4	0.4	<0.05	3.4	11.45	73.3	<0.02	<1	0.5	54.1	<10	<2
REP 069202	QC	0.07	3.3	0.5	<0.05	3.6	12.00	74.6	0.04	2	0.5	53.4	<10	<2
069217	Soil	<0.02	1.4	0.2	<0.05	14.1	9.39	19.7	0.03	<1	0.6	61.5	<10	<2
REP 069217	QC	<0.02	1.5	0.2	<0.05	14.7	9.74	19.5	0.02	<1	0.6	64.1	<10	<2
Reference Materials														
STD DS10	Standard	1.45	26.6	1.4	<0.05	2.5	7.78	33.8	0.22	50	0.7	21.2	111	181
STD DS10	Standard	1.48	27.8	1.5	<0.05	2.7	8.00	35.9	0.22	48	0.5	21.0	122	198
STD DS10	Standard	1.67	27.3	1.4	<0.05	2.8	8.14	36.6	0.20	49	0.7	21.1	119	190
STD DS10	Standard	1.57	26.3	1.4	<0.05	2.7	8.16	36.3	0.18	43	0.7	21.6	113	174
STD DS10	Standard	1.59	28.4	1.5	<0.05	2.4	8.00	37.4	0.24	43	0.6	18.8	101	173
STD DS10	Standard	1.71	29.6	1.5	<0.05	2.7	8.30	39.3	0.21	58	0.8	20.3	102	188
STD DS10	Standard	1.69	27.2	1.6	<0.05	2.5	8.03	35.7	0.22	47	0.8	20.5	128	184
STD DS10	Standard	1.75	27.8	1.5	<0.05	3.0	8.11	38.4	0.22	52	0.7	21.5	126	199
STD DS10	Standard	1.80	28.2	1.4	<0.05	2.9	8.29	38.9	0.23	45	0.6	20.8	113	198



Bureau Veritas Commodities Canada Ltd.

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PHONE (604) 253-3158

**Client:** Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

**Project:** NA-16176  
**Report Date:** September 15, 2016

**Page:** 2 of 2

**Part:** 1 of 3

# QUALITY CONTROL REPORT

WHI16000234.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
STD OXC129	Standard	1.33	25.38	6.30	39.4	14	77.4	20.5	419	2.97	0.7	0.6	208.6	1.8	180.2	0.02	0.03	<0.02	49	0.63	0.104
STD OXC129	Standard	1.31	25.67	6.34	41.0	20	77.6	20.6	425	3.06	0.6	0.7	214.5	1.8	179.9	<0.01	0.03	<0.02	50	0.65	0.106
STD OXC129	Standard	1.28	24.44	6.12	40.2	12	76.1	20.0	409	2.92	0.8	0.6	210.2	1.8	180.0	0.02	0.03	<0.02	50	0.67	0.105
STD OXC129	Standard	1.29	25.21	6.15	39.0	10	77.7	20.2	427	2.98	1.4	0.6	210.3	1.8	176.9	0.02	0.04	0.03	50	0.65	0.102
STD OXC129	Standard	1.07	26.88	6.11	39.6	35	80.1	20.2	418	3.02	0.6	0.7	204.8	1.8	191.3	0.03	0.03	<0.02	50	0.69	0.101
STD OXC129	Standard	1.41	27.00	6.50	39.9	22	78.3	20.7	419	3.06	0.3	0.7	196.7	1.8	199.0	<0.01	0.05	<0.02	51	0.71	0.101
STD OXC129	Standard	1.25	24.66	6.02	39.8	21	74.6	19.8	416	3.06	1.3	0.7	195.1	1.8	183.0	0.02	0.04	<0.02	50	0.70	0.100
STD OXC129	Standard	1.32	25.08	6.31	42.3	18	78.0	20.8	423	3.07	1.0	0.7	196.5	1.9	191.3	0.01	0.03	<0.02	51	0.72	0.104
STD OXC129	Standard	1.32	25.68	6.34	42.1	16	77.1	20.0	426	3.01	1.0	0.6	196.0	1.9	192.9	0.01	0.03	<0.02	50	0.73	0.106
STD DS10 Expected		15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	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	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665	0.102
BLK	Blank	<0.01	<0.01	<0.01	0.1	<2	0.2	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	0.04	0.2	<2	0.3	0.2	<1	<0.01	0.3	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.3	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.4	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	0.02	0.2	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	0.03	<0.1	6	0.1	<0.1	2	<0.01	0.4	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	3	0.2	0.1	4	<0.01	0.3	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	0.2	0.2	3	<0.01	0.5	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



# QUALITY CONTROL REPORT

WHI16000234.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
STD OXC129	Standard	11.6	51.4	1.52	50.2	0.384	<1	1.54	0.592	0.38	<0.1	1.2	0.03	<0.02	<5	<0.1	<0.02	5.6	0.17	<0.1	0.28
STD OXC129	Standard	11.8	53.4	1.53	49.3	0.393	<1	1.54	0.597	0.38	0.1	1.2	0.03	<0.02	<5	<0.1	<0.02	5.5	0.17	<0.1	0.31
STD OXC129	Standard	11.7	49.9	1.49	51.4	0.373	<1	1.55	0.571	0.35	<0.1	1.1	0.02	<0.02	<5	<0.1	<0.02	5.4	0.16	<0.1	0.22
STD OXC129	Standard	11.6	51.4	1.51	47.9	0.372	2	1.56	0.597	0.37	<0.1	1.0	0.04	<0.02	<5	<0.1	<0.02	5.4	0.17	<0.1	0.32
STD OXC129	Standard	11.9	51.3	1.52	49.4	0.394	2	1.58	0.585	0.36	<0.1	1.2	0.02	<0.02	<5	<0.1	<0.02	5.3	0.16	<0.1	0.25
STD OXC129	Standard	12.4	52.7	1.56	49.2	0.402	<1	1.64	0.604	0.38	<0.1	1.4	0.04	<0.02	<5	<0.1	<0.02	5.5	0.16	0.1	0.20
STD OXC129	Standard	11.7	50.5	1.54	50.7	0.389	1	1.58	0.589	0.36	<0.1	1.0	0.03	<0.02	<5	<0.1	<0.02	5.3	0.16	<0.1	0.23
STD OXC129	Standard	11.8	52.7	1.56	50.2	0.408	<1	1.65	0.601	0.38	<0.1	1.4	0.03	<0.02	<5	<0.1	<0.02	5.7	0.17	<0.1	0.24
STD OXC129	Standard	11.4	50.6	1.55	51.1	0.389	<1	1.65	0.612	0.37	<0.1	1.5	0.03	<0.02	<5	<0.1	<0.02	5.9	0.18	<0.1	0.25
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0259	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	2.63	0.08	0.06
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6	0.16		0.24
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	2	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	0.2	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



# QUALITY CONTROL REPORT

WHI16000234.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
STD OXC129	Standard	1.75	15.0	0.6	<0.05	20.9	4.42	22.6	<0.02	<1	0.9	2.4	<10	<2
STD OXC129	Standard	1.66	15.4	0.7	<0.05	22.8	4.52	22.7	<0.02	<1	0.6	2.5	<10	<2
STD OXC129	Standard	1.79	14.5	0.6	<0.05	20.6	4.60	22.2	<0.02	<1	0.7	2.4	<10	<2
STD OXC129	Standard	2.08	14.6	0.7	<0.05	22.7	4.52	22.1	<0.02	<1	0.9	2.3	<10	<2
STD OXC129	Standard	1.57	15.2	0.8	<0.05	23.8	4.42	22.7	<0.02	<1	0.9	2.2	<10	2
STD OXC129	Standard	1.38	15.4	0.7	<0.05	21.2	4.71	23.2	<0.02	<1	0.9	2.3	<10	<2
STD OXC129	Standard	1.44	14.2	0.7	<0.05	22.3	4.68	22.5	<0.02	<1	1.0	2.4	<10	<2
STD OXC129	Standard	1.57	15.2	0.6	<0.05	22.2	4.82	23.0	<0.02	<1	0.7	2.4	<10	<2
STD OXC129	Standard	1.45	15.4	0.6	<0.05	22.9	4.76	22.9	<0.02	<1	1.0	2.3	<10	<2
STD DS10 Expected		1.62	27.7	1.6		2.7	7.77	37	0.23	50	0.63	19.4	110	191
STD OXC129 Expected		1.4		0.7		21	4.7	23.7			0.8	2.22		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	0.1	0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	0.2	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

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**Client:** **Golden Predator Mining Corp.**  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

Submitted By: M. Burke  
Receiving Lab: Canada-Whitehorse  
Received: August 31, 2016  
Report Date: September 17, 2016  
Page: 1 of 12

# CERTIFICATE OF ANALYSIS

WHI16000235.1

## CLIENT JOB INFORMATION

Project: NA-16176  
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: Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6  
Canada

CC: M. Burke

## 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
AQ251_EXT	320	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
SHP01	320	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.



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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**Client:** Golden Predator Mining Corp.  
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**Project:** NA-16176  
**Report Date:** September 17, 2016

**Page:** 2 of 12

**Part:** 1 of 3

# CERTIFICATE OF ANALYSIS

# WHI16000235.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
069451	Soil	0.80	79.64	59.28	97.2	91	53.3	38.8	4254	4.81	25.7	1.9	6.9	4.5	3.7	0.14	0.33	0.85	19	0.02	0.113	
069452	Soil	0.49	18.97	21.32	41.3	20	27.5	13.0	1557	2.44	3.3	0.5	1.8	1.6	4.7	0.09	0.16	0.32	11	0.05	0.070	
069453	Soil	0.47	15.14	15.26	46.2	28	24.4	10.5	1109	2.76	6.0	0.4	2.7	1.1	3.0	0.05	0.17	0.34	14	0.01	0.081	
069454	Soil	0.67	67.90	51.99	100.7	67	46.4	33.7	1360	4.72	42.1	2.2	3.5	8.2	4.8	0.10	0.73	0.63	14	0.05	0.058	
069455	Soil	0.62	30.86	48.13	68.4	36	27.7	22.4	1089	2.94	41.3	0.8	2.1	3.7	4.3	0.11	0.71	0.32	17	0.03	0.078	
069456	Soil	0.39	51.90	32.35	106.8	92	45.7	19.8	689	4.74	54.3	2.6	10.7	12.6	21.9	0.06	0.96	0.61	14	0.19	0.040	
069457	Soil	0.34	44.07	24.48	108.6	53	47.8	18.3	685	4.83	26.3	1.6	2.1	10.6	5.5	0.05	0.39	0.52	15	0.08	0.039	
069458	Soil	0.58	46.99	34.11	108.1	51	45.6	28.4	1087	5.01	25.2	1.7	10.0	9.8	5.5	0.05	0.52	0.59	17	0.07	0.062	
069459	Soil	0.44	55.87	34.33	113.0	58	47.1	22.7	669	4.82	13.4	2.0	0.5	11.1	5.2	0.07	0.26	0.46	17	0.08	0.051	
069460	Soil	0.75	30.38	23.85	88.3	27	35.5	12.5	423	4.24	22.7	1.3	4.1	3.6	5.1	0.05	0.46	0.42	22	0.04	0.090	
069461	Soil	0.42	61.22	33.66	120.9	20	50.8	19.9	605	5.03	14.2	5.7	0.7	12.2	3.2	0.03	0.41	0.47	17	0.07	0.057	
069462	Soil	0.93	67.43	88.65	81.7	59	46.8	25.1	3676	3.66	9.8	0.8	2.1	2.0	5.4	0.08	0.20	1.26	14	0.06	0.082	
069463	Soil	0.50	61.20	27.42	112.0	47	52.1	31.3	1091	5.05	16.4	1.7	3.0	8.4	5.3	0.02	0.27	0.41	20	0.09	0.046	
069464	Soil	0.47	44.17	26.65	97.1	41	47.6	20.6	800	4.92	63.1	1.7	9.2	6.1	4.7	0.05	0.53	0.49	18	0.04	0.044	
069465	Soil	0.71	36.93	42.57	89.2	155	31.4	13.7	411	3.46	20.4	2.5	4.9	4.6	9.0	0.11	0.39	0.33	21	0.09	0.082	
069466	Soil	0.76	30.75	31.93	81.9	49	32.2	13.5	384	3.73	30.4	1.6	2.5	4.5	7.0	0.14	0.54	0.36	19	0.06	0.071	
069467	Soil	0.71	30.25	37.07	73.9	43	27.4	15.8	662	2.95	25.8	1.5	2.3	3.3	7.9	0.13	0.49	0.38	16	0.07	0.072	
069468	Soil	0.59	28.76	31.57	68.6	23	26.4	14.0	557	2.71	23.1	1.4	1.9	4.1	7.8	0.08	0.47	0.30	15	0.07	0.069	
069469	Soil	0.64	24.26	33.13	57.1	55	22.6	11.3	530	3.19	28.5	1.1	1.0	1.3	6.5	0.07	0.46	0.39	18	0.04	0.092	
069470	Soil	0.22	10.92	8.15	20.6	36	8.0	3.1	88	1.09	12.0	0.5	6.6	0.2	3.4	0.03	0.15	0.10	10	0.02	0.029	
069471	Soil	0.56	25.05	26.79	54.1	51	21.5	12.5	529	2.22	26.9	1.1	7.5	3.1	6.8	0.06	0.34	0.24	16	0.08	0.075	
069472	Soil	0.77	25.97	31.39	65.3	43	26.2	11.4	468	4.59	28.3	0.9	29.5	5.9	4.0	0.09	0.63	0.47	22	0.02	0.067	
069473	Soil	0.87	25.72	40.56	65.1	61	23.7	8.6	320	3.93	28.2	1.4	2.9	4.3	17.7	0.04	0.50	0.44	26	0.02	0.070	
069474	Soil	0.47	45.12	33.30	101.5	105	41.0	20.6	676	3.02	39.3	2.0	4.4	14.6	6.4	0.06	0.39	0.44	10	<0.01	0.046	
069475	Soil	0.49	53.11	34.95	105.7	144	43.0	22.6	600	4.40	14.7	2.2	0.7	9.2	4.8	0.06	0.38	0.45	14	0.05	0.063	
069476	Soil	0.62	83.89	44.40	129.1	210	48.9	26.1	643	5.36	18.9	3.5	2.3	14.3	5.3	0.08	0.65	0.44	14	0.12	0.075	
069477	Soil	0.64	52.57	39.21	61.6	183	22.3	28.3	660	2.71	27.3	2.8	3.5	1.9	5.0	0.07	0.36	0.38	13	0.04	0.065	
069478	Soil	0.80	14.43	10.50	35.6	91	15.8	5.7	183	2.21	17.9	0.8	1.0	0.7	5.0	0.05	0.32	0.37	23	0.02	0.071	
069479	Soil	0.55	23.68	20.44	57.6	65	23.1	8.8	375	4.31	46.7	0.8	1.6	3.9	2.6	0.09	0.57	0.50	18	0.01	0.076	
069480	Soil	0.17	2.53	2.29	4.4	43	1.2	0.8	34	0.34	1.5	0.2	2.1	<0.1	4.4	0.01	0.05	0.04	5	0.03	0.027	



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**Project:** NA-16176  
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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
069451	Soil	12.5	36.4	1.14	21.3	0.002	1	2.59	0.003	0.03	<0.1	2.8	0.05	0.08	55	<0.1	0.18	7.2	2.47	0.1	0.26
069452	Soil	9.2	17.1	0.55	14.6	0.007	<1	1.40	0.012	0.02	<0.1	1.3	<0.02	0.02	27	0.6	0.08	4.2	0.88	<0.1	0.07
069453	Soil	9.3	18.3	0.57	17.1	0.006	<1	1.42	0.009	0.02	<0.1	1.0	0.03	0.04	11	0.4	0.10	5.0	1.07	<0.1	0.08
069454	Soil	14.0	31.1	1.01	20.7	0.001	1	2.37	0.003	0.03	<0.1	2.5	0.05	0.02	29	0.5	0.05	5.7	1.96	<0.1	0.10
069455	Soil	13.8	25.4	0.62	27.4	0.004	<1	1.89	0.005	0.03	<0.1	1.2	0.05	0.05	33	0.2	0.07	5.7	0.80	<0.1	0.05
069456	Soil	19.9	29.8	1.02	23.8	0.001	<1	2.44	0.005	0.05	<0.1	3.5	0.04	0.03	<5	0.2	0.09	6.4	1.67	0.1	0.09
069457	Soil	24.3	33.7	1.14	19.6	<0.001	<1	2.68	0.004	0.03	<0.1	2.8	0.03	<0.02	<5	<0.1	0.06	7.1	1.48	<0.1	0.05
069458	Soil	21.3	35.7	1.10	19.5	0.002	<1	2.67	0.004	0.03	<0.1	2.4	0.04	<0.02	6	<0.1	0.08	7.4	2.22	<0.1	0.16
069459	Soil	23.0	37.3	1.14	25.9	0.001	<1	2.79	0.007	0.04	<0.1	2.3	0.04	<0.02	<5	<0.1	0.05	7.3	3.49	0.1	0.04
069460	Soil	21.3	32.8	0.81	19.3	0.007	1	2.14	0.003	0.03	0.1	1.5	0.05	0.02	22	0.1	0.06	7.0	1.40	<0.1	0.03
069461	Soil	62.7	33.7	1.01	15.6	0.001	<1	2.59	0.003	0.03	<0.1	2.7	0.03	<0.02	12	<0.1	0.06	7.4	2.58	0.1	0.06
069462	Soil	13.8	26.7	0.85	21.4	0.007	2	1.97	0.010	0.03	<0.1	2.6	0.05	0.05	30	0.5	0.29	5.3	1.98	0.2	0.14
069463	Soil	15.1	42.6	1.35	14.8	0.001	2	2.87	0.004	0.02	<0.1	3.4	<0.02	<0.02	14	<0.1	0.08	8.0	1.01	<0.1	0.06
069464	Soil	8.2	36.5	1.18	16.3	0.001	<1	2.74	0.005	0.02	<0.1	2.8	0.02	<0.02	<5	<0.1	0.13	7.0	1.51	<0.1	0.11
069465	Soil	18.1	25.2	0.52	55.3	0.010	2	1.74	0.008	0.04	0.1	2.5	0.08	0.03	38	0.8	0.08	5.2	1.73	<0.1	0.03
069466	Soil	22.0	24.1	0.54	22.1	0.011	2	1.45	0.003	0.03	0.1	1.5	0.05	0.04	62	0.4	0.13	4.9	0.94	0.1	<0.02
069467	Soil	21.7	18.9	0.47	28.8	0.010	2	1.34	0.007	0.03	0.1	1.6	0.06	0.02	25	0.3	0.07	4.1	1.04	<0.1	<0.02
069468	Soil	19.9	16.3	0.43	26.4	0.011	<1	1.24	0.009	0.03	<0.1	1.4	0.05	<0.02	47	0.4	0.13	3.8	0.86	0.2	<0.02
069469	Soil	17.2	20.2	0.44	27.7	0.007	3	1.37	0.007	0.03	0.1	0.9	0.08	0.04	39	<0.1	0.07	4.9	1.60	<0.1	<0.02
069470	Soil	6.5	7.1	0.15	12.1	0.009	<1	0.51	0.020	0.02	<0.1	0.6	0.04	0.02	32	<0.1	0.02	2.2	0.37	<0.1	<0.02
069471	Soil	14.1	12.4	0.26	20.0	0.015	1	1.00	0.015	0.03	0.2	1.3	0.05	0.03	41	0.5	0.03	3.1	0.72	<0.1	0.06
069472	Soil	19.8	26.8	0.57	18.5	0.007	1	1.67	0.003	0.03	0.1	1.6	0.06	0.03	46	0.3	0.09	6.0	1.58	<0.1	<0.02
069473	Soil	18.9	24.7	0.43	25.7	0.007	<1	1.50	0.004	0.03	0.1	1.6	0.09	0.04	27	0.5	0.08	7.1	2.18	0.2	0.04
069474	Soil	56.4	14.1	0.05	17.0	0.001	<1	0.20	0.002	0.02	0.2	2.0	0.06	<0.02	56	<0.1	0.07	2.9	0.90	<0.1	<0.02
069475	Soil	38.2	29.6	0.77	13.6	0.002	1	1.98	0.004	0.03	<0.1	2.3	0.05	<0.02	41	<0.1	<0.02	5.7	3.65	<0.1	0.05
069476	Soil	36.0	34.5	1.09	12.0	0.002	<1	2.63	0.003	0.02	<0.1	2.8	0.03	<0.02	17	0.4	0.10	6.7	1.68	<0.1	0.05
069477	Soil	17.3	16.7	0.36	27.4	0.007	<1	1.33	0.014	0.03	0.1	1.4	0.06	0.03	13	0.2	0.09	4.6	3.09	<0.1	<0.02
069478	Soil	15.6	16.7	0.32	33.4	0.006	<1	1.01	0.007	0.03	0.1	0.7	0.06	0.04	30	<0.1	0.03	5.6	1.09	<0.1	0.02
069479	Soil	15.2	24.2	0.46	13.1	0.004	<1	1.37	0.004	0.03	<0.1	1.4	0.04	0.03	35	<0.1	0.02	5.7	1.03	<0.1	0.03
069480	Soil	2.2	2.1	0.03	12.2	0.011	<1	0.41	0.028	0.02	<0.1	0.5	<0.02	0.02	<5	<0.1	<0.02	1.5	0.22	<0.1	<0.02



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
069451	Soil	0.11	3.4	0.5	0.07	7.8	3.49	26.3	0.11	<1	0.5	80.5	<10	<2
069452	Soil	0.10	2.1	0.6	<0.05	3.2	1.27	17.8	0.03	<1	<0.1	38.7	<10	<2
069453	Soil	0.16	3.0	0.6	<0.05	2.1	0.87	17.5	<0.02	<1	<0.1	39.7	<10	<2
069454	Soil	0.04	2.7	0.6	<0.05	5.6	3.64	27.8	0.03	<1	0.6	70.9	<10	<2
069455	Soil	0.25	4.9	1.6	<0.05	2.5	2.27	28.3	0.03	<1	0.4	40.2	<10	<2
069456	Soil	0.02	3.2	0.4	<0.05	6.2	5.35	38.8	<0.02	<1	0.4	81.4	<10	<2
069457	Soil	0.02	3.0	0.4	<0.05	2.4	3.09	46.6	<0.02	<1	0.1	93.6	<10	<2
069458	Soil	0.05	3.7	0.2	<0.05	4.6	2.86	40.4	0.02	<1	0.4	85.0	<10	2
069459	Soil	0.04	4.1	0.3	<0.05	2.4	3.59	43.9	<0.02	<1	0.2	94.2	<10	<2
069460	Soil	0.22	5.0	0.5	<0.05	2.0	2.49	40.8	<0.02	<1	0.1	64.4	<10	<2
069461	Soil	0.02	3.9	0.3	<0.05	2.5	3.63	119.1	0.03	<1	0.8	88.5	<10	<2
069462	Soil	0.28	3.5	1.8	<0.05	4.3	2.90	27.8	0.06	<1	0.6	62.6	<10	5
069463	Soil	<0.02	1.5	0.3	<0.05	4.1	4.23	29.1	<0.02	3	0.8	94.0	<10	<2
069464	Soil	0.04	2.0	0.4	<0.05	4.7	1.96	16.7	<0.02	<1	0.5	83.2	<10	3
069465	Soil	0.24	7.3	0.4	<0.05	0.9	6.96	36.9	0.03	<1	0.3	42.7	<10	<2
069466	Soil	0.25	4.4	0.4	<0.05	0.7	3.50	42.3	<0.02	<1	0.3	40.3	<10	<2
069467	Soil	0.17	4.7	0.7	<0.05	0.7	3.78	41.7	0.02	1	0.3	33.3	<10	<2
069468	Soil	0.18	4.2	0.6	<0.05	0.6	3.25	40.1	<0.02	<1	0.5	30.7	<10	<2
069469	Soil	0.17	5.3	0.8	<0.05	0.9	2.20	33.3	0.05	<1	0.1	30.0	<10	<2
069470	Soil	0.05	2.0	0.3	<0.05	0.2	0.86	12.7	<0.02	<1	0.2	9.4	<10	<2
069471	Soil	0.23	3.6	0.3	<0.05	1.0	2.68	29.6	<0.02	<1	0.5	18.8	<10	<2
069472	Soil	0.34	5.0	1.1	<0.05	1.0	2.01	38.9	<0.02	<1	0.2	42.2	<10	5
069473	Soil	0.35	5.8	0.5	<0.05	0.7	2.23	37.1	0.03	2	0.2	34.8	<10	<2
069474	Soil	0.03	1.8	0.6	<0.05	3.1	4.22	105.7	<0.02	2	0.1	2.7	<10	<2
069475	Soil	0.04	3.8	1.5	<0.05	2.6	2.77	71.7	<0.02	<1	<0.1	64.3	<10	<2
069476	Soil	<0.02	1.8	0.9	<0.05	2.9	3.44	68.6	<0.02	<1	0.7	88.8	<10	5
069477	Soil	0.13	4.8	0.5	<0.05	1.4	3.63	33.4	0.02	<1	0.4	29.3	<10	5
069478	Soil	0.17	5.2	1.4	<0.05	0.6	2.54	29.3	0.02	<1	0.4	19.3	<10	<2
069479	Soil	0.21	4.4	0.9	<0.05	1.4	1.34	29.8	<0.02	<1	<0.1	31.0	<10	<2
069480	Soil	0.13	1.3	0.2	<0.05	0.3	0.47	4.1	<0.02	<1	0.3	1.1	<10	2



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
069481	Soil	0.30	8.91	9.63	12.9	111	5.4	2.0	84	0.88	12.7	0.6	2.3	0.5	4.7	0.03	0.21	0.10	5	0.03	0.030
069482	Soil	1.01	30.47	34.62	55.7	92	21.8	19.0	1451	4.52	35.3	1.1	0.6	2.8	3.6	0.08	0.68	0.71	23	<0.01	0.127
069483	Soil	0.42	46.99	24.51	93.0	25	41.8	16.9	500	4.32	20.4	1.0	2.6	10.8	2.5	0.06	0.69	0.48	12	0.01	0.034
069484	Soil	0.36	54.33	29.62	101.6	28	50.3	23.3	1213	4.78	21.5	0.8	2.6	9.3	5.4	0.02	0.57	0.50	16	0.07	0.057
069485	Soil	0.38	26.72	17.03	93.4	32	46.1	14.6	639	4.44	10.8	0.7	1.1	7.2	3.2	<0.01	0.25	0.48	16	0.02	0.045
069486	Soil	0.45	25.56	24.90	80.1	51	33.7	13.7	367	3.48	13.9	1.0	1.8	7.4	18.5	0.07	0.65	0.35	12	0.30	0.058
069487	Soil	0.39	24.18	26.16	84.1	74	33.4	13.6	370	3.62	15.3	1.1	10.7	8.1	15.2	0.15	0.63	0.40	13	0.27	0.053
069488	Soil	0.35	28.38	26.19	86.0	70	35.4	14.4	383	3.69	14.5	1.2	4.0	8.8	19.1	0.08	0.60	0.37	13	0.29	0.047
069489	Soil	0.48	31.31	38.26	95.1	160	35.7	16.0	588	3.70	7.4	1.2	2.0	17.7	29.3	0.12	0.94	0.43	6	0.46	0.050
069490	Soil	0.35	38.58	38.90	100.3	151	38.3	18.2	445	3.96	7.9	1.3	3.0	15.3	25.3	0.09	0.88	0.44	7	0.35	0.042
070841	Soil	0.62	50.80	40.03	79.9	230	37.2	20.8	727	3.56	18.9	2.7	3.6	11.4	23.8	0.16	1.02	0.40	8	0.33	0.084
070842	Soil	0.64	64.86	50.81	101.7	187	44.6	32.9	682	4.29	20.7	2.0	3.5	17.9	20.0	0.10	1.45	0.61	9	0.30	0.054
070843	Soil	0.62	25.61	53.30	106.6	134	28.2	14.8	415	4.76	18.1	2.6	5.1	4.4	8.7	0.28	1.75	0.48	11	0.15	0.091
070844	Soil	0.53	41.53	37.61	83.3	205	39.3	19.5	518	4.13	18.3	1.9	4.2	9.3	26.5	0.14	1.37	0.36	7	0.53	0.047
070845	Soil	1.61	48.69	30.89	85.8	127	41.7	18.0	608	3.68	67.5	2.6	17.4	6.8	12.6	0.09	1.13	0.43	12	0.17	0.054
070846	Soil	0.57	29.75	42.05	81.4	74	35.8	18.9	1814	4.84	4.2	0.6	0.2	4.6	2.8	0.08	0.21	1.22	19	0.03	0.175
070847	Soil	0.59	44.16	25.18	91.6	35	40.9	17.7	567	4.27	23.0	1.4	4.8	5.7	4.8	0.05	0.29	0.55	15	0.07	0.055
070848	Soil	0.92	49.37	30.78	86.3	96	55.7	26.1	974	4.22	56.2	1.7	10.3	6.1	9.7	0.10	0.68	0.38	15	0.17	0.054
070849	Soil	1.02	18.58	12.58	68.0	21	29.1	12.3	444	4.88	17.8	0.3	0.6	3.2	2.0	0.04	0.36	0.35	24	0.01	0.037
070850	Soil	0.28	14.28	4.23	48.1	31	20.1	8.3	791	2.51	1.6	0.3	<0.2	7.1	3.1	0.05	0.07	0.13	10	0.03	0.058
069041	Soil	0.59	43.48	41.99	123.1	97	45.2	23.1	1671	5.48	6.9	2.1	1.1	16.5	14.7	0.20	0.38	0.59	13	0.21	0.086
069042	Soil	0.45	49.56	43.18	107.4	137	36.5	21.1	827	4.40	8.6	1.7	2.0	13.6	17.3	0.12	0.50	0.51	17	0.24	0.078
069043	Soil	0.47	47.07	47.58	114.4	108	43.3	26.4	841	4.66	8.7	1.4	0.6	20.8	41.8	0.08	0.72	0.52	10	1.09	0.061
069044	Soil	0.47	33.30	39.02	101.5	137	37.7	19.9	804	4.04	16.3	1.3	4.4	16.3	27.6	0.11	1.59	0.37	8	0.37	0.059
069045	Soil	0.42	41.37	37.28	114.9	146	43.1	20.5	725	4.49	11.6	1.3	1.9	15.7	29.1	0.13	0.89	0.44	10	0.32	0.065
069046	Soil	0.40	31.22	32.15	103.8	80	38.4	16.3	493	4.06	9.8	1.1	1.1	14.4	28.0	0.09	1.10	0.38	10	0.31	0.062
069047	Soil	0.34	34.78	34.88	108.3	93	42.3	20.3	548	4.24	9.1	1.1	1.8	15.6	26.7	0.06	1.57	0.39	10	0.30	0.059
069048	Soil	0.53	30.17	51.25	84.9	69	35.9	34.5	1478	3.79	6.9	1.5	0.4	8.2	12.4	0.18	0.47	0.38	13	0.09	0.086
069049	Soil	0.48	27.45	37.49	67.7	67	27.9	19.9	933	2.89	4.6	1.0	<0.2	5.3	7.5	0.09	0.25	0.27	11	0.07	0.076
069050	Soil	0.32	16.62	15.72	34.0	54	14.1	12.2	564	1.60	3.7	0.8	<0.2	4.6	9.5	0.07	0.31	0.15	11	0.12	0.057



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**Project:** NA-16176  
**Report Date:** September 17, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000235.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
069481	Soil	2.5	4.5	0.09	31.2	0.006	<1	0.50	0.023	0.03	<0.1	0.7	0.15	0.02	114	<0.1	0.06	1.6	0.64	<0.1	0.02
069482	Soil	18.5	29.4	0.40	45.3	0.006	<1	1.60	0.004	0.04	0.1	1.3	0.06	0.04	57	0.6	0.10	6.9	1.50	<0.1	0.06
069483	Soil	28.9	28.2	0.88	36.4	<0.001	<1	2.24	0.004	0.06	<0.1	2.2	0.03	<0.02	26	<0.1	0.05	5.9	0.63	<0.1	0.06
069484	Soil	31.1	32.7	1.29	28.8	0.001	<1	2.64	0.006	0.06	<0.1	2.6	0.02	<0.02	5	<0.1	0.15	6.6	0.66	<0.1	0.03
069485	Soil	26.9	35.6	1.24	35.9	0.001	<1	2.70	0.005	0.05	<0.1	2.3	0.03	<0.02	15	<0.1	0.03	7.3	0.85	<0.1	0.09
069486	Soil	14.2	27.7	0.67	25.7	0.002	2	1.59	0.003	0.04	<0.1	2.4	0.02	0.04	9	<0.1	<0.02	4.1	0.45	<0.1	0.11
069487	Soil	16.9	26.8	0.70	27.6	0.002	1	1.65	0.002	0.04	<0.1	2.6	0.04	0.04	22	0.1	0.05	4.4	0.57	<0.1	0.14
069488	Soil	16.8	28.6	0.74	28.9	0.002	<1	1.69	0.003	0.03	<0.1	2.6	0.03	0.02	12	<0.1	0.04	4.5	0.54	<0.1	0.13
069489	Soil	20.3	14.6	0.56	22.8	0.001	<1	1.20	0.003	0.04	<0.1	4.4	0.04	0.06	35	0.2	0.04	2.8	0.33	<0.1	0.14
069490	Soil	13.9	16.0	0.60	20.7	<0.001	<1	1.32	0.002	0.03	<0.1	3.1	0.04	0.06	34	<0.1	0.03	3.4	0.41	<0.1	0.14
070841	Soil	22.0	13.0	0.39	52.8	0.003	<1	1.33	0.010	0.03	<0.1	3.5	0.05	0.03	41	0.3	0.06	2.6	0.68	<0.1	0.05
070842	Soil	11.6	20.3	0.65	24.8	<0.001	<1	1.57	0.003	0.03	<0.1	2.8	0.03	0.06	17	0.3	0.10	3.9	0.88	<0.1	0.16
070843	Soil	18.0	14.4	0.24	19.4	0.002	<1	1.19	0.002	0.02	<0.1	2.5	0.05	0.05	63	0.5	0.10	3.0	0.56	<0.1	0.06
070844	Soil	20.5	13.2	0.41	39.3	<0.001	<1	1.13	0.002	0.04	<0.1	3.7	0.05	0.04	62	0.3	0.07	2.6	0.56	<0.1	0.15
070845	Soil	17.6	25.7	0.86	39.1	0.002	<1	1.80	0.006	0.04	<0.1	3.5	0.04	<0.02	21	0.2	0.11	4.3	1.26	<0.1	0.08
070846	Soil	11.7	38.3	1.34	22.8	0.002	<1	2.37	0.003	0.04	<0.1	1.6	0.03	0.06	29	0.2	0.13	7.6	1.47	<0.1	0.13
070847	Soil	16.1	31.7	0.96	25.4	0.003	<1	2.30	0.007	0.03	<0.1	2.3	0.03	0.02	16	<0.1	0.10	6.4	1.23	<0.1	0.10
070848	Soil	17.1	33.0	0.87	42.9	<0.001	<1	1.99	0.004	0.04	<0.1	4.5	0.04	<0.02	16	0.2	0.08	4.7	1.20	<0.1	0.17
070849	Soil	18.2	29.8	0.94	11.8	0.013	<1	1.87	0.002	0.02	<0.1	1.3	0.04	0.02	16	0.1	0.06	8.8	0.86	<0.1	<0.02
070850	Soil	15.7	15.9	0.80	14.3	0.005	<1	1.57	0.010	0.02	<0.1	2.4	0.02	0.03	22	0.3	<0.02	4.3	0.51	<0.1	0.06
069041	Soil	24.3	29.3	0.89	29.4	0.002	<1	2.21	0.003	0.04	<0.1	5.0	0.05	<0.02	25	<0.1	0.05	6.0	0.54	<0.1	0.11
069042	Soil	20.4	24.4	0.74	33.1	0.007	<1	1.94	0.008	0.03	<0.1	4.0	0.05	<0.02	18	0.1	0.03	5.3	0.80	<0.1	0.10
069043	Soil	11.8	24.2	0.80	23.8	0.001	<1	2.09	0.002	0.04	<0.1	3.7	0.05	<0.02	18	<0.1	0.04	5.0	0.95	<0.1	0.16
069044	Soil	19.3	20.0	0.64	33.1	<0.001	<1	1.73	0.003	0.04	<0.1	3.8	0.04	<0.02	25	0.1	0.03	4.1	0.78	<0.1	0.11
069045	Soil	40.7	23.7	0.74	25.6	0.001	<1	1.91	0.002	0.04	<0.1	4.0	0.04	<0.02	34	<0.1	0.03	4.7	0.83	<0.1	0.11
069046	Soil	36.6	21.8	0.68	33.7	0.003	<1	1.69	0.003	0.03	<0.1	4.4	0.03	<0.02	20	<0.1	0.03	4.5	0.64	<0.1	0.11
069047	Soil	33.6	24.5	0.79	32.4	0.002	<1	1.95	0.003	0.04	<0.1	4.0	0.04	<0.02	14	0.1	0.03	5.0	1.03	<0.1	0.15
069048	Soil	17.8	22.9	0.56	42.2	0.003	<1	1.82	0.004	0.04	<0.1	1.9	0.06	0.04	34	0.3	0.04	5.1	1.30	<0.1	0.10
069049	Soil	11.7	19.8	0.54	32.7	0.005	<1	1.54	0.009	0.04	<0.1	1.6	0.04	0.04	40	0.1	0.02	4.3	0.83	<0.1	0.08
069050	Soil	8.7	10.8	0.27	24.1	0.011	<1	0.89	0.022	0.03	<0.1	1.3	0.04	<0.02	22	0.1	<0.02	2.4	0.55	<0.1	0.03



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**Project:** NA-16176  
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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
069481	Soil	0.11	2.5	0.2	<0.05	0.4	1.27	4.5	<0.02	<1	<0.1	6.9	<10	<2
069482	Soil	0.26	5.5	0.7	<0.05	1.7	2.75	36.2	0.02	<1	0.5	28.3	<10	<2
069483	Soil	0.03	4.2	0.2	<0.05	3.3	2.83	56.5	0.02	2	0.5	66.5	<10	<2
069484	Soil	<0.02	3.0	0.3	<0.05	2.1	3.38	57.6	0.02	<1	0.3	90.9	<10	<2
069485	Soil	0.05	4.5	0.7	<0.05	3.0	1.96	51.2	0.03	<1	0.3	85.9	<10	<2
069486	Soil	0.13	3.6	0.8	<0.05	4.8	5.12	29.3	0.03	<1	0.4	47.6	<10	4
069487	Soil	0.15	3.2	0.4	0.07	4.6	6.15	36.4	0.08	<1	0.4	51.3	<10	<2
069488	Soil	0.10	2.6	0.4	<0.05	4.2	7.38	35.9	0.04	<1	0.4	53.0	<10	<2
069489	Soil	0.03	2.1	0.8	<0.05	10.4	15.67	45.7	0.04	<1	0.5	43.0	<10	<2
069490	Soil	0.04	1.9	0.3	<0.05	7.8	10.45	31.0	0.03	<1	0.5	47.1	<10	<2
070841	Soil	0.09	3.1	1.1	<0.05	3.5	15.11	46.4	0.04	<1	0.6	27.0	<10	<2
070842	Soil	<0.02	2.2	0.4	<0.05	13.7	8.12	25.0	0.02	<1	0.5	49.8	<10	<2
070843	Soil	0.10	3.4	0.4	<0.05	2.4	8.70	50.9	0.04	<1	0.5	20.5	<10	<2
070844	Soil	0.05	3.1	0.4	<0.05	6.0	13.73	42.5	0.03	<1	0.5	26.6	<10	<2
070845	Soil	0.08	4.1	1.9	<0.05	3.0	8.84	36.0	0.03	<1	0.6	54.9	<10	<2
070846	Soil	0.08	4.1	1.3	<0.05	5.0	1.77	24.2	0.02	<1	0.3	81.6	<10	<2
070847	Soil	0.14	3.2	1.3	<0.05	3.6	4.06	32.8	<0.02	<1	0.4	70.0	<10	<2
070848	Soil	0.07	4.2	0.5	<0.05	6.2	10.54	35.2	0.03	<1	0.8	59.4	<10	<2
070849	Soil	0.66	2.9	0.8	<0.05	0.5	1.58	36.8	<0.02	<1	0.2	62.2	<10	<2
070850	Soil	0.20	3.0	0.2	<0.05	2.1	3.64	31.4	0.02	<1	0.3	55.2	<10	<2
069041	Soil	0.03	2.5	1.4	<0.05	6.6	13.70	56.8	0.04	<1	0.7	79.4	<10	<2
069042	Soil	0.09	3.2	0.8	<0.05	5.8	13.03	46.7	0.03	<1	0.6	65.4	<10	<2
069043	Soil	<0.02	2.6	1.1	<0.05	12.5	8.94	27.9	0.03	<1	0.6	61.4	<10	<2
069044	Soil	0.02	2.9	1.6	<0.05	6.4	12.90	41.0	0.04	<1	0.7	50.1	<10	<2
069045	Soil	0.04	2.4	0.4	<0.05	6.4	14.65	92.2	0.03	<1	0.7	61.3	<10	<2
069046	Soil	0.07	2.3	0.4	<0.05	7.6	14.83	86.5	0.03	<1	0.7	57.0	<10	<2
069047	Soil	0.05	2.7	0.4	<0.05	10.8	14.19	79.0	0.03	<1	0.6	64.9	<10	<2
069048	Soil	0.14	4.5	0.4	<0.05	3.7	9.70	41.6	0.03	<1	0.6	47.4	<10	<2
069049	Soil	0.14	4.2	1.6	<0.05	3.0	6.27	26.0	<0.02	<1	0.6	41.3	<10	<2
069050	Soil	0.15	2.5	1.0	<0.05	1.2	5.50	19.8	<0.02	<1	0.4	18.2	<10	<2



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# CERTIFICATE OF ANALYSIS

# WHI16000235.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
069321	Soil	0.37	36.78	45.29	57.2	87	29.4	18.8	1118	2.81	76.8	0.8	6.5	9.1	7.3	0.03	0.57	0.22	11	0.13	0.020
069322	Soil	1.69	90.18	165.79	101.3	108	55.3	92.0	2875	4.51	38.1	1.5	3.0	12.8	6.4	0.26	0.54	0.68	17	0.11	0.082
069323	Soil	0.41	50.75	34.60	112.3	105	51.4	28.9	995	4.86	33.5	1.3	3.1	12.7	11.3	0.06	0.83	0.58	15	0.25	0.050
069324	Soil	0.34	7.64	6.43	10.6	30	2.9	1.6	32	0.68	6.1	0.4	3.2	<0.1	4.5	0.02	0.12	0.08	10	0.02	0.039
069325	Soil	0.27	5.33	3.17	8.4	26	2.0	1.2	23	0.50	3.3	0.2	<0.2	<0.1	4.1	0.02	0.10	0.07	10	0.02	0.028
069326	Soil	1.05	17.59	19.98	40.3	42	12.4	5.0	157	2.32	36.3	0.9	2.5	0.6	8.2	0.07	0.48	0.31	27	0.04	0.069
069327	Soil	1.00	17.56	25.17	36.3	37	10.3	4.3	157	1.86	12.6	0.9	1.6	0.6	5.9	0.06	0.38	0.26	23	0.03	0.070
069328	Soil	0.60	19.65	17.90	62.7	25	24.1	9.0	285	3.73	14.4	0.8	0.4	2.7	3.7	0.07	0.51	0.37	24	0.01	0.060
069329	Soil	0.66	33.46	27.76	87.7	28	35.9	14.1	569	4.12	15.4	1.4	0.5	6.2	4.2	0.05	0.41	0.40	17	0.03	0.056
069330	Soil	1.13	119.98	80.38	117.4	207	53.8	51.1	889	5.10	21.0	3.1	0.9	16.8	4.3	0.07	0.64	0.55	15	0.09	0.065
069331	Soil	1.08	77.09	53.40	109.1	111	42.1	27.4	669	4.53	19.4	2.2	1.6	9.3	5.6	0.07	0.53	0.49	15	0.07	0.067
069332	Soil	0.80	60.57	42.16	79.3	121	30.7	23.1	630	3.37	13.9	2.1	1.2	3.7	4.4	0.06	0.42	0.41	13	0.06	0.066
069333	Soil	0.64	47.10	16.64	104.2	59	46.3	14.8	476	5.04	15.5	2.1	1.8	12.0	2.9	0.04	0.43	0.46	19	0.08	0.062
069334	Soil	0.73	40.05	62.81	85.6	175	34.1	12.0	416	5.46	19.6	1.3	1.4	9.0	2.2	0.04	0.43	0.61	21	<0.01	0.046
069335	Soil	0.82	73.75	50.49	139.4	100	58.4	35.9	1078	5.76	30.1	2.2	3.8	12.5	4.9	0.10	0.61	0.65	18	0.07	0.053
069336	Soil	0.84	56.52	36.89	109.6	54	45.8	23.2	832	5.20	26.3	2.0	2.3	7.4	5.6	0.06	0.54	0.57	18	0.04	0.066
069337	Soil	0.62	45.27	33.96	101.7	46	44.4	21.0	638	4.64	22.0	1.5	4.1	7.2	3.5	0.08	0.47	0.48	17	0.02	0.040
069338	Soil	0.60	25.80	16.99	93.1	28	41.4	13.6	450	4.86	19.6	0.8	5.7	6.3	4.3	0.03	0.34	0.39	17	0.02	0.045
069339	Soil	0.66	22.83	17.48	58.3	41	25.4	10.9	463	4.02	34.0	0.9	12.6	2.2	4.5	0.07	0.48	0.51	20	0.02	0.062
069340	Soil	0.60	47.00	20.45	99.7	96	43.8	18.5	471	4.21	47.3	1.8	7.4	9.5	4.8	0.04	0.46	0.45	13	0.11	0.047
069171	Soil	1.69	77.57	53.93	89.9	74	49.0	50.1	3118	5.51	43.5	2.6	5.7	6.6	3.1	0.05	2.71	0.70	17	0.02	0.086
069172	Soil	1.01	67.65	45.74	91.9	83	48.9	41.6	2363	5.40	51.5	1.3	5.6	5.4	3.8	0.06	1.56	1.15	17	0.05	0.076
069173	Soil	0.57	25.09	27.15	42.0	46	20.9	14.9	1153	2.34	9.0	0.5	0.3	0.6	3.6	0.04	0.19	0.33	16	0.04	0.060
069174	Soil	0.64	67.69	51.62	111.3	69	61.9	30.4	1285	5.31	24.6	1.5	2.9	7.8	5.8	0.04	0.31	0.57	28	0.11	0.040
069175	Soil	0.63	17.55	16.88	35.4	40	15.6	9.3	1142	2.54	9.2	0.6	0.6	1.1	3.6	0.04	0.18	0.26	15	0.04	0.077
069176	Soil	0.60	56.18	29.01	118.4	44	55.8	36.3	1148	5.16	14.0	2.3	1.2	7.7	4.3	0.05	0.36	0.41	22	0.05	0.043
069177	Soil	1.23	50.99	59.68	65.8	139	26.9	23.7	1809	3.09	11.5	0.8	0.5	0.9	7.1	0.11	0.13	0.62	14	0.17	0.191
069178	Soil	1.06	58.87	51.64	85.5	59	44.7	27.2	2447	4.38	11.9	0.9	<0.2	4.5	4.2	0.06	0.18	0.62	19	0.07	0.076
069179	Soil	0.65	57.45	33.03	109.9	33	52.6	38.8	1377	4.92	14.5	1.0	0.8	7.2	4.1	0.04	0.28	0.38	20	0.09	0.052
069180	Soil	0.45	29.49	24.75	33.8	56	13.7	17.2	816	1.67	7.2	0.6	0.4	0.5	3.5	0.03	0.11	0.19	12	0.05	0.052



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**Project:** NA-16176  
**Report Date:** September 17, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000235.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
069321	Soil	14.5	26.3	0.75	21.7	<0.001	<1	1.95	0.002	0.02	<0.1	1.6	0.02	<0.02	20	<0.1	0.04	4.7	0.96	<0.1	0.03
069322	Soil	18.9	32.6	0.86	73.5	0.003	<1	2.44	0.003	0.04	<0.1	2.4	0.11	0.03	59	0.3	0.06	6.5	2.19	<0.1	0.13
069323	Soil	22.5	35.8	1.00	27.0	<0.001	<1	2.52	0.005	0.05	<0.1	4.0	0.04	<0.02	9	<0.1	0.10	7.2	2.96	<0.1	0.14
069324	Soil	3.8	3.8	0.04	15.2	0.010	<1	0.53	0.026	0.02	<0.1	0.2	0.04	0.04	26	0.2	<0.02	2.0	0.46	<0.1	<0.02
069325	Soil	3.2	2.8	0.02	15.4	0.008	<1	0.39	0.027	0.02	<0.1	0.1	0.03	0.03	23	<0.1	<0.02	1.9	0.31	<0.1	<0.02
069326	Soil	14.7	15.8	0.20	34.0	0.017	<1	1.16	0.012	0.04	0.1	0.9	0.12	0.05	51	0.5	0.04	5.0	1.59	<0.1	<0.02
069327	Soil	14.6	12.3	0.08	20.4	0.015	<1	0.78	0.013	0.03	0.2	0.6	0.10	0.05	57	0.6	0.03	3.9	0.99	<0.1	<0.02
069328	Soil	18.7	23.3	0.50	21.4	0.007	<1	1.48	0.005	0.03	0.1	1.1	0.07	0.04	39	0.3	0.06	6.6	0.97	<0.1	<0.02
069329	Soil	33.4	28.3	0.63	23.0	0.004	<1	1.75	0.004	0.03	<0.1	1.6	0.08	<0.02	22	0.2	0.08	5.7	2.56	<0.1	0.05
069330	Soil	37.6	37.9	1.06	16.0	<0.001	1	2.69	0.005	0.05	<0.1	2.5	0.09	<0.02	11	0.1	0.17	7.0	9.21	<0.1	0.05
069331	Soil	34.1	30.7	0.77	21.8	0.002	<1	2.04	0.003	0.03	<0.1	1.8	0.08	<0.02	23	0.2	0.09	5.6	6.05	<0.1	0.09
069332	Soil	22.9	23.1	0.52	20.5	0.004	<1	1.64	0.014	0.04	<0.1	1.3	0.07	0.02	14	0.2	0.10	4.8	5.89	<0.1	0.06
069333	Soil	17.0	41.4	1.12	7.9	<0.001	<1	2.60	0.003	0.02	<0.1	2.0	0.02	<0.02	10	<0.1	0.10	8.2	1.64	<0.1	0.07
069334	Soil	26.8	31.7	0.67	12.4	0.003	<1	1.94	0.003	0.03	<0.1	1.7	0.04	0.02	31	0.3	0.11	7.8	2.10	<0.1	0.06
069335	Soil	35.3	40.0	1.18	24.2	0.001	<1	2.88	0.004	0.04	<0.1	2.6	0.04	<0.02	18	<0.1	0.13	7.5	2.80	<0.1	0.06
069336	Soil	22.6	35.0	0.96	20.9	0.003	<1	2.38	0.004	0.03	<0.1	2.0	0.04	0.02	15	0.1	0.11	6.9	2.72	<0.1	0.11
069337	Soil	22.4	34.8	0.87	27.8	0.002	<1	2.27	0.004	0.04	<0.1	1.7	0.05	<0.02	23	<0.1	0.06	6.2	2.07	<0.1	0.08
069338	Soil	21.8	35.1	0.93	22.8	0.002	<1	2.35	0.003	0.03	<0.1	1.6	0.03	<0.02	13	0.1	0.07	6.5	1.11	<0.1	0.09
069339	Soil	16.6	29.4	0.56	31.3	0.005	<1	1.73	0.005	0.03	<0.1	1.0	0.07	0.03	32	0.2	0.08	6.4	1.42	<0.1	0.02
069340	Soil	34.1	28.8	0.81	15.8	<0.001	<1	2.01	0.004	0.03	<0.1	2.2	0.03	<0.02	43	<0.1	0.06	5.4	1.10	<0.1	0.04
069171	Soil	18.5	28.5	1.20	24.9	0.002	<1	2.25	0.004	0.03	<0.1	3.1	0.07	<0.02	26	0.2	0.18	5.7	1.54	<0.1	0.04
069172	Soil	15.7	31.4	1.34	17.3	0.001	<1	2.46	0.003	0.02	<0.1	3.0	0.03	<0.02	19	<0.1	0.31	6.0	1.46	<0.1	0.10
069173	Soil	6.9	19.4	0.54	15.0	0.006	<1	1.35	0.014	0.02	<0.1	0.7	0.03	0.04	36	0.2	0.07	4.2	1.28	<0.1	0.04
069174	Soil	14.3	56.7	1.55	16.7	0.002	<1	3.09	0.003	0.02	<0.1	4.0	<0.02	<0.02	8	<0.1	0.14	8.2	1.32	<0.1	0.11
069175	Soil	7.7	19.9	0.39	17.3	0.005	<1	1.22	0.013	0.02	<0.1	0.8	0.03	0.05	26	0.3	0.07	4.7	1.60	<0.1	0.06
069176	Soil	7.7	47.0	1.22	21.9	<0.001	<1	2.85	0.005	0.02	<0.1	3.0	0.03	<0.02	9	<0.1	0.07	8.5	3.93	<0.1	0.13
069177	Soil	5.3	24.5	0.64	19.9	0.003	1	1.54	0.007	0.03	<0.1	1.5	0.03	0.13	48	0.3	0.11	4.6	1.22	<0.1	0.07
069178	Soil	17.4	35.3	1.15	24.0	0.002	<1	2.48	0.004	0.03	<0.1	2.1	0.04	0.03	68	0.1	0.14	6.7	2.97	<0.1	0.15
069179	Soil	21.0	39.2	1.33	16.1	0.003	<1	2.76	0.003	0.02	<0.1	2.3	0.02	<0.02	8	<0.1	0.10	7.3	1.98	<0.1	0.11
069180	Soil	7.1	11.7	0.36	16.9	0.008	<1	1.03	0.022	0.02	<0.1	0.7	0.03	0.03	26	0.2	0.06	3.2	1.35	<0.1	0.05



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
069321	Soil	<0.02	1.9	0.6	<0.05	1.5	3.34	31.4	<0.02	<1	0.5	53.3	<10	<2
069322	Soil	0.14	4.0	0.7	<0.05	5.3	5.59	43.4	0.04	<1	0.8	76.8	<10	<2
069323	Soil	<0.02	3.7	0.5	<0.05	8.9	6.54	46.6	0.03	<1	0.5	93.6	<10	<2
069324	Soil	0.16	2.2	0.2	<0.05	0.2	0.76	8.0	<0.02	<1	<0.1	1.4	<10	<2
069325	Soil	0.09	1.6	0.2	<0.05	<0.1	0.58	6.6	<0.02	<1	<0.1	0.9	<10	<2
069326	Soil	0.57	6.3	0.5	<0.05	0.3	2.43	31.3	<0.02	<1	0.3	11.7	<10	<2
069327	Soil	0.48	5.2	1.5	<0.05	0.3	2.18	31.1	<0.02	<1	0.2	4.4	<10	<2
069328	Soil	0.36	5.0	0.4	<0.05	0.8	1.97	38.7	<0.02	<1	0.1	38.5	<10	<2
069329	Soil	0.15	5.0	0.9	<0.05	1.9	2.47	76.5	<0.02	<1	0.3	53.2	<10	<2
069330	Soil	<0.02	4.3	0.7	<0.05	4.6	3.28	87.4	0.03	<1	1.2	100.9	<10	<2
069331	Soil	0.09	4.3	0.4	<0.05	3.3	3.31	79.8	0.03	<1	0.6	62.2	<10	<2
069332	Soil	0.10	4.2	0.7	<0.05	2.4	2.52	47.8	<0.02	<1	0.6	46.3	<10	<2
069333	Soil	0.03	2.1	0.6	<0.05	2.8	1.64	33.9	0.03	<1	0.2	90.3	<10	<2
069334	Soil	0.25	3.5	0.7	<0.05	2.4	1.87	54.9	0.02	<1	0.2	57.6	<10	<2
069335	Soil	0.02	3.2	0.7	<0.05	2.4	3.24	80.5	0.03	<1	0.5	105.5	<10	<2
069336	Soil	0.13	3.5	1.1	<0.05	3.5	2.89	47.5	0.02	<1	0.5	79.1	<10	<2
069337	Soil	0.09	3.9	0.4	<0.05	3.1	2.66	46.5	0.03	<1	0.3	73.2	<10	<2
069338	Soil	0.15	3.4	0.3	<0.05	3.5	1.68	44.8	0.02	<1	0.1	78.4	<10	<2
069339	Soil	0.32	4.5	0.6	<0.05	0.8	2.81	34.4	<0.02	<1	<0.1	41.7	<10	<2
069340	Soil	<0.02	2.3	0.2	<0.05	1.5	3.98	77.0	<0.02	<1	0.3	70.0	<10	<2
069171	Soil	0.05	2.5	0.2	<0.05	1.9	4.65	39.0	0.03	<1	0.5	85.1	<10	<2
069172	Soil	0.05	1.9	0.3	<0.05	3.6	3.95	32.1	0.03	<1	0.7	94.4	<10	<2
069173	Soil	0.11	2.8	0.2	<0.05	1.4	1.68	14.9	<0.02	<1	0.1	37.6	<10	<2
069174	Soil	0.02	1.6	0.3	<0.05	7.5	4.28	29.2	0.02	<1	0.6	107.5	<10	<2
069175	Soil	0.14	2.7	0.1	<0.05	2.3	1.34	15.9	<0.02	<1	0.3	28.3	<10	<2
069176	Soil	0.04	2.5	0.3	<0.05	3.8	2.65	18.0	0.02	<1	0.4	96.1	<10	<2
069177	Soil	0.15	2.0	0.1	<0.05	2.4	3.05	11.5	0.03	<1	0.4	44.7	<10	<2
069178	Soil	0.09	3.3	0.6	<0.05	5.1	3.50	36.3	<0.02	<1	0.4	83.2	<10	<2
069179	Soil	0.06	2.2	0.2	<0.05	4.2	2.97	42.4	0.02	<1	0.5	99.7	<10	<2
069180	Soil	0.10	1.9	0.2	<0.05	1.8	2.16	14.5	<0.02	<1	0.4	26.5	<10	<2



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
069181	Soil	0.54	31.96	51.34	90.1	51	42.1	22.1	1324	4.47	622.7	3.0	87.6	11.9	5.7	0.03	0.90	0.36	19	0.08	0.038
069182	Soil	0.22	25.34	65.63	38.9	24	17.9	18.0	1067	2.17	77.2	0.4	1.6	6.8	8.5	0.07	0.28	0.24	8	0.19	0.037
069183	Soil	0.49	23.40	26.50	76.3	16	33.5	18.8	817	3.71	32.4	0.6	6.2	4.6	4.1	0.06	0.33	0.26	18	0.04	0.061
069184	Soil	1.19	13.97	18.14	38.5	39	11.8	4.8	124	2.16	15.3	0.9	5.4	1.4	5.5	0.05	0.59	0.31	35	0.02	0.043
069185	Soil	1.23	16.17	20.72	40.3	30	11.9	5.2	184	2.46	15.6	0.8	4.9	0.8	7.0	0.06	0.59	0.41	41	0.03	0.052
069186	Soil	0.34	7.76	5.20	17.0	24	5.3	2.2	61	1.07	8.7	0.3	0.4	0.2	5.3	0.03	0.14	0.10	13	0.08	0.052
069187	Soil	1.29	15.22	23.79	46.6	52	13.6	5.6	278	3.93	18.9	0.9	1.2	1.1	5.8	0.06	0.61	0.49	49	0.03	0.089
069188	Soil	0.83	26.84	32.14	69.6	52	29.1	11.9	504	4.51	30.8	1.4	3.0	4.6	4.6	0.09	0.58	0.39	20	0.03	0.068
069189	Soil	1.09	27.04	26.96	72.6	37	27.5	12.2	476	3.86	18.0	1.1	1.1	1.3	6.8	0.05	0.52	0.50	30	0.04	0.081
069190	Soil	0.63	19.48	19.02	58.5	72	21.9	7.2	376	4.07	13.5	1.0	1.4	3.8	3.4	0.06	0.36	0.38	22	0.01	0.096
069191	Soil	0.64	44.03	28.48	99.9	92	39.2	17.6	662	3.65	37.3	1.9	6.9	8.9	5.7	0.07	0.37	0.41	15	<0.01	0.048
069192	Soil	0.65	54.00	36.46	91.7	70	35.8	17.1	587	4.41	12.7	2.1	1.1	8.0	4.9	0.04	0.44	0.39	19	0.05	0.072
069193	Soil	0.32	17.63	15.33	25.3	47	9.8	4.5	174	1.36	5.0	0.7	1.0	0.4	4.5	0.02	0.12	0.12	11	0.07	0.047
069194	Soil	0.84	82.42	47.04	115.5	173	44.2	30.0	843	4.78	19.8	3.5	3.7	10.5	4.9	0.06	0.57	0.46	20	0.05	0.054
069195	Soil	2.41	85.39	55.73	158.9	74	62.6	109.1	4010	4.47	18.4	3.7	1.9	7.5	4.3	0.23	0.73	0.35	17	0.04	0.069
069196	Soil	0.59	27.63	18.83	53.0	54	19.6	9.0	298	3.13	17.1	1.0	0.7	1.4	3.5	0.03	0.39	0.36	17	0.02	0.057
069197	Soil	0.77	51.39	39.72	98.2	117	39.9	15.9	565	4.39	27.9	2.2	3.0	7.0	7.0	0.10	0.67	0.57	16	0.05	0.077
069198	Soil	0.81	27.02	24.16	58.0	277	22.0	8.5	301	4.22	26.6	1.3	1307.6	1.4	5.2	0.06	0.48	0.48	21	0.03	0.109
069199	Soil	0.26	2.88	2.39	6.3	75	1.5	0.8	16	0.42	2.0	0.2	2.7	<0.1	3.6	0.03	0.10	0.13	12	0.02	0.018
069200	Soil	0.30	6.38	17.40	7.6	160	2.8	0.8	24	0.47	4.3	0.5	2.1	0.2	3.6	0.03	0.08	0.08	5	0.03	0.033
069111	Soil	0.50	50.22	51.25	88.1	93	44.7	18.7	620	4.56	101.9	1.5	37.5	7.2	6.1	0.04	0.59	0.75	16	0.11	0.041
069112	Soil	0.42	47.21	15.74	82.4	98	41.1	11.7	302	3.27	37.0	8.7	11.8	5.3	15.9	0.06	0.42	0.34	16	0.27	0.074
069113	Soil	0.41	42.85	15.23	77.6	137	39.4	11.5	414	3.20	31.7	5.5	11.0	4.1	14.3	0.05	0.42	0.29	16	0.25	0.078
069114	Soil	0.67	50.13	29.99	88.6	69	50.7	21.0	684	4.36	65.5	0.8	11.1	6.8	6.3	0.05	1.38	0.42	16	0.10	0.058
069115	Soil	0.37	33.95	16.93	101.2	43	48.4	12.3	568	4.75	14.0	1.3	2.2	7.4	5.4	<0.01	0.19	0.40	17	0.09	0.039
069116	Soil	0.38	38.92	23.97	109.6	57	50.2	18.4	804	4.91	13.0	1.5	3.3	8.0	5.6	0.02	0.22	0.41	17	0.09	0.039
069117	Soil	0.76	31.77	28.74	100.7	41	45.5	18.1	851	5.43	24.2	1.0	2.4	5.1	3.6	0.03	0.64	0.46	17	0.07	0.037
069118	Soil	0.76	33.68	26.53	101.7	40	45.7	16.5	811	5.46	22.5	1.0	2.1	5.1	3.6	0.02	0.66	0.45	17	0.07	0.039
069119	Soil	0.52	29.74	23.59	79.0	56	36.5	16.3	791	4.00	20.5	0.7	0.7	6.1	4.1	0.03	0.37	0.38	16	0.05	0.049
069120	Soil	2.50	91.60	98.91	169.2	264	63.6	123.0	5009	6.22	66.1	2.8	15.3	7.3	7.6	0.25	0.97	0.48	21	0.04	0.067



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**Client:** Golden Predator Mining Corp.  
510 - 580 Hornby Street  
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**Project:** NA-16176  
**Report Date:** September 17, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000235.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
069181	Soil	29.7	39.3	1.01	138.5	<0.001	<1	2.61	0.003	0.03	<0.1	2.5	0.05	<0.02	12	<0.1	0.05	7.7	3.28	<0.1	0.09
069182	Soil	14.8	17.6	0.39	35.2	<0.001	<1	1.55	0.002	0.01	<0.1	0.8	<0.02	0.02	9	<0.1	0.03	3.3	1.21	<0.1	0.07
069183	Soil	16.8	29.8	0.81	18.5	0.005	<1	1.95	0.002	0.03	<0.1	1.4	0.03	0.02	16	0.1	0.05	5.6	0.75	<0.1	0.06
069184	Soil	16.9	13.1	0.12	21.3	0.020	<1	0.57	0.006	0.03	0.2	1.0	0.08	0.03	44	0.4	0.04	4.7	1.04	<0.1	<0.02
069185	Soil	18.1	14.8	0.12	42.0	0.016	<1	0.96	0.007	0.03	0.2	0.8	0.09	0.04	26	0.3	0.05	6.5	1.20	<0.1	<0.02
069186	Soil	5.8	6.8	0.09	14.5	0.009	<1	0.63	0.018	0.02	<0.1	0.3	0.03	0.03	20	0.1	<0.02	2.4	0.34	<0.1	<0.02
069187	Soil	18.8	21.6	0.18	29.6	0.022	2	0.97	0.003	0.04	0.2	1.0	0.12	0.06	53	0.5	0.08	9.4	1.28	<0.1	<0.02
069188	Soil	18.6	25.7	0.51	17.6	0.006	<1	1.45	0.002	0.03	0.1	1.3	0.10	0.04	81	0.4	0.06	5.5	1.20	<0.1	0.04
069189	Soil	20.8	29.4	0.66	28.0	0.018	<1	1.74	0.003	0.05	0.1	1.2	0.08	0.03	17	0.4	0.06	6.9	2.65	<0.1	<0.02
069190	Soil	18.8	25.6	0.46	23.7	0.005	1	1.53	0.004	0.04	<0.1	1.3	0.08	0.07	73	0.5	0.07	7.1	1.76	<0.1	0.05
069191	Soil	66.9	15.5	0.10	24.9	0.002	<1	0.48	0.003	0.03	0.2	1.9	0.06	<0.02	28	<0.1	0.07	2.7	1.72	<0.1	<0.02
069192	Soil	35.0	28.4	0.74	15.4	0.003	<1	1.92	0.006	0.03	<0.1	2.0	0.05	<0.02	9	0.2	0.06	5.7	4.36	<0.1	0.04
069193	Soil	6.3	9.3	0.21	11.5	0.008	<1	0.81	0.024	0.02	<0.1	0.5	0.02	0.02	22	0.2	0.02	2.4	1.06	<0.1	<0.02
069194	Soil	33.9	33.6	0.87	22.0	0.003	<1	2.25	0.003	0.03	<0.1	2.1	0.06	<0.02	16	0.2	0.08	6.8	3.84	<0.1	0.03
069195	Soil	16.1	34.0	0.68	47.5	0.005	<1	2.03	0.008	0.03	<0.1	2.6	0.06	0.04	48	0.3	0.05	5.5	3.24	<0.1	0.13
069196	Soil	16.0	17.3	0.36	17.1	0.004	<1	1.14	0.008	0.02	<0.1	0.6	0.04	0.03	16	0.2	0.07	4.8	1.53	<0.1	0.03
069197	Soil	23.1	28.3	0.72	33.1	0.003	<1	1.81	0.005	0.05	<0.1	1.9	0.06	0.04	26	0.1	0.11	5.7	3.53	<0.1	0.11
069198	Soil	15.3	26.0	0.33	33.0	0.005	<1	1.29	0.004	0.04	0.2	0.8	0.09	0.07	60	0.5	0.07	6.1	1.73	<0.1	0.03
069199	Soil	6.4	2.9	0.02	13.9	0.006	1	0.36	0.016	0.02	<0.1	0.1	0.04	0.02	17	<0.1	<0.02	3.0	0.31	<0.1	<0.02
069200	Soil	3.4	3.4	0.03	21.8	0.005	<1	0.65	0.021	0.02	<0.1	0.3	0.11	0.03	38	0.1	<0.02	2.1	0.47	<0.1	<0.02
069111	Soil	16.9	40.0	1.00	33.5	0.001	<1	2.14	0.002	0.04	<0.1	2.4	0.02	<0.02	7	<0.1	0.14	5.4	0.87	<0.1	0.07
069112	Soil	16.3	39.9	0.88	47.2	0.003	<1	1.72	0.004	0.05	<0.1	4.3	0.02	0.03	7	0.4	0.05	4.3	0.82	<0.1	0.08
069113	Soil	13.8	37.1	0.89	45.7	0.004	<1	2.01	0.009	0.05	<0.1	2.6	0.03	0.03	8	0.4	0.05	5.0	0.79	<0.1	0.13
069114	Soil	18.3	37.5	1.09	27.2	0.001	<1	2.17	0.003	0.04	<0.1	2.3	<0.02	<0.02	8	<0.1	0.09	5.1	0.54	<0.1	0.07
069115	Soil	16.7	39.2	1.24	30.5	<0.001	<1	2.78	0.003	0.04	<0.1	2.1	0.03	<0.02	<5	0.1	0.06	7.6	1.21	<0.1	0.11
069116	Soil	17.1	38.6	1.26	28.8	<0.001	<1	2.88	0.005	0.05	<0.1	2.3	0.02	<0.02	7	<0.1	0.07	7.6	0.95	<0.1	0.10
069117	Soil	13.5	37.2	1.24	15.9	0.002	<1	2.66	0.002	0.02	<0.1	1.8	0.02	<0.02	7	0.2	0.09	7.0	0.97	<0.1	0.05
069118	Soil	14.2	36.6	1.22	16.4	0.001	<1	2.60	0.002	0.03	<0.1	1.9	0.02	<0.02	8	0.1	0.08	7.1	1.05	<0.1	0.05
069119	Soil	17.1	31.1	0.92	30.1	0.001	<1	2.23	0.004	0.03	<0.1	1.6	0.04	<0.02	14	<0.1	0.07	6.4	1.03	<0.1	0.06
069120	Soil	17.2	45.1	0.95	61.0	0.002	<1	2.64	0.003	0.03	<0.1	2.9	0.10	0.03	31	0.3	0.09	7.0	3.31	<0.1	0.15

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:** NA-16176  
**Report Date:** September 17, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
069181	Soil	<0.02	4.2	0.3	<0.05	3.7	3.58	71.8	0.03	<1	0.7	89.7	<10	<2
069182	Soil	0.02	1.9	0.2	<0.05	2.8	2.62	33.9	<0.02	<1	0.4	30.3	<10	<2
069183	Soil	0.20	2.9	0.2	<0.05	2.6	2.34	36.0	<0.02	<1	0.3	60.9	<10	<2
069184	Soil	0.58	3.9	0.8	<0.05	0.4	2.04	34.7	<0.02	<1	<0.1	5.4	<10	<2
069185	Soil	0.70	4.5	0.8	<0.05	0.3	2.22	37.0	<0.02	<1	0.2	6.6	<10	<2
069186	Soil	0.14	2.1	0.2	<0.05	0.3	0.98	12.2	<0.02	<1	<0.1	7.0	<10	<2
069187	Soil	0.78	4.8	0.7	<0.05	0.2	2.03	38.3	<0.02	<1	0.2	10.8	<10	<2
069188	Soil	0.26	3.8	0.2	<0.05	1.2	2.43	38.5	<0.02	<1	0.3	39.2	<10	<2
069189	Soil	0.46	6.8	0.5	<0.05	0.3	3.05	44.0	0.02	<1	0.3	42.0	<10	<2
069190	Soil	0.32	5.7	0.3	<0.05	1.7	1.72	38.6	0.02	<1	0.2	36.1	<10	<2
069191	Soil	0.05	3.1	0.3	<0.05	0.2	4.60	135.2	0.03	<1	0.3	8.5	<10	<2
069192	Soil	0.09	4.3	0.2	<0.05	1.8	2.93	81.1	<0.02	<1	0.3	56.8	<10	<2
069193	Soil	0.11	1.5	0.2	<0.05	1.5	0.99	13.2	<0.02	<1	0.1	16.8	<10	<2
069194	Soil	0.17	4.0	0.2	<0.05	1.5	3.52	77.8	0.02	<1	0.6	73.9	<10	<2
069195	Soil	0.12	3.4	0.3	<0.05	4.1	5.48	36.0	<0.02	<1	0.7	68.6	<10	<2
069196	Soil	0.12	3.1	0.2	<0.05	0.8	1.41	32.3	<0.02	<1	0.2	29.9	<10	<2
069197	Soil	0.09	4.2	2.9	<0.05	3.7	3.23	46.5	0.02	<1	0.5	58.7	<10	<2
069198	Soil	0.18	6.9	0.3	<0.05	0.7	2.28	31.1	<0.02	<1	0.3	24.9	<10	<2
069199	Soil	0.13	1.3	0.5	<0.05	0.3	0.64	14.0	0.04	<1	<0.1	0.9	<10	<2
069200	Soil	0.22	1.8	0.3	<0.05	0.7	1.68	7.5	<0.02	<1	0.2	2.4	<10	<2
069111	Soil	0.05	2.9	0.3	<0.05	2.1	3.59	36.6	<0.02	<1	0.5	62.4	<10	<2
069112	Soil	0.12	4.2	0.2	<0.05	2.6	7.06	34.9	<0.02	<1	0.5	50.0	<10	<2
069113	Soil	0.18	3.6	0.3	<0.05	4.4	6.72	27.3	<0.02	<1	0.6	52.1	<10	<2
069114	Soil	0.03	2.2	0.2	<0.05	2.4	3.04	43.1	<0.02	<1	0.4	64.8	<10	<2
069115	Soil	0.05	3.4	0.2	<0.05	3.4	2.48	35.7	<0.02	<1	0.4	85.7	<10	<2
069116	Soil	<0.02	2.6	0.3	<0.05	3.5	2.88	36.9	<0.02	<1	0.4	86.7	<10	<2
069117	Soil	0.08	2.5	0.2	<0.05	1.8	2.29	28.9	<0.02	<1	0.3	82.2	<10	<2
069118	Soil	0.06	2.5	0.2	<0.05	2.0	2.24	30.1	<0.02	<1	0.3	80.9	<10	<2
069119	Soil	0.10	3.5	0.2	<0.05	1.9	1.88	38.1	<0.02	<1	0.3	58.9	<10	<2
069120	Soil	0.11	3.7	0.3	<0.05	5.7	5.26	39.6	0.04	<1	0.8	86.7	<10	<2



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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
069401	Soil	1.01	57.79	32.50	86.5	42	49.5	23.6	2332	5.40	21.0	1.2	1.7	4.7	2.9	0.03	0.66	0.68	22	0.04	0.103
069402	Soil	0.62	38.46	26.58	76.6	48	39.2	16.9	1063	4.09	31.4	1.1	4.7	4.1	3.7	<0.01	0.47	0.39	18	0.04	0.058
069403	Soil	0.46	18.42	15.71	55.4	33	22.4	6.7	444	2.75	12.7	0.7	1.0	2.6	4.4	0.01	0.78	0.24	14	0.06	0.053
069404	Soil	0.52	24.57	31.61	64.2	65	24.1	14.9	773	3.46	25.2	0.8	1.5	6.6	4.9	0.08	0.39	0.34	14	0.07	0.051
069405	Soil	0.91	24.49	23.96	79.2	43	33.9	12.0	601	4.44	29.1	1.0	3.5	3.8	5.0	0.03	0.45	0.36	23	0.03	0.074
069406	Soil	1.00	18.71	19.23	53.8	43	19.5	6.7	283	3.08	35.5	0.9	4.2	0.6	6.5	0.05	0.51	0.30	27	0.03	0.053
069407	Soil	0.83	25.93	24.67	99.0	31	42.9	14.3	660	4.73	39.2	1.0	29.0	5.1	5.5	0.07	0.49	0.35	21	0.06	0.069
069408	Soil	0.52	25.15	19.48	73.4	37	32.4	11.3	418	3.13	26.5	1.4	7.8	5.7	4.3	0.10	0.37	0.23	15	0.05	0.042
069409	Soil	0.59	25.64	17.36	78.5	40	38.7	13.1	506	4.06	34.3	1.7	14.6	7.9	6.2	0.04	0.39	0.30	18	0.06	0.059
069410	Soil	1.01	18.75	19.15	44.4	21	42.4	17.5	783	5.34	27.3	1.3	5.4	8.3	4.0	0.03	0.75	0.74	18	0.02	0.058
069411	Soil	0.87	65.09	45.78	126.9	119	51.8	35.2	3801	5.10	27.7	2.1	3.7	11.6	6.4	0.08	0.88	0.66	13	0.08	0.070
069412	Soil	0.73	60.55	36.08	104.9	87	42.8	24.7	1760	4.71	20.4	1.9	2.0	8.2	4.3	0.06	0.46	0.54	17	0.05	0.057
069413	Soil	0.47	65.53	39.68	114.4	92	50.6	23.8	729	4.99	12.3	2.0	1.7	14.4	5.6	0.05	0.35	0.42	16	0.11	0.057
069414	Soil	0.70	67.68	42.68	126.4	117	52.2	27.6	2036	5.40	25.5	2.1	2.5	11.1	4.5	0.08	0.65	0.76	14	0.04	0.045
069415	Soil	0.63	52.15	31.50	111.5	29	50.6	21.1	732	5.23	21.5	1.5	1.8	9.6	3.2	0.05	0.43	0.47	16	0.04	0.036
069416	Soil	0.60	56.48	36.07	110.2	59	49.8	24.4	894	4.97	35.9	1.4	6.5	9.9	4.8	0.08	0.53	0.46	16	0.08	0.057
069417	Soil	0.62	46.23	29.73	105.0	35	45.1	21.2	796	4.91	24.1	1.1	3.7	7.9	3.4	0.06	0.43	0.48	17	0.06	0.057
069418	Soil	0.51	32.80	16.37	48.0	124	17.2	9.8	811	2.24	16.1	1.4	16.0	1.0	9.0	0.06	0.38	0.25	12	0.17	0.097
069419	Soil	0.49	27.40	15.72	83.1	57	35.9	11.2	534	4.52	23.3	0.9	2.1	3.5	10.0	0.04	0.42	0.38	17	0.33	0.074
069420	Soil	0.47	47.44	25.88	106.1	85	51.8	24.7	863	4.78	51.9	1.6	3.9	9.7	10.1	0.03	1.00	0.51	13	0.60	0.042
069121	Soil	0.68	18.81	17.90	47.7	41	20.1	7.1	401	2.98	22.8	0.9	25.3	0.8	4.3	0.04	0.34	0.27	20	0.03	0.084
069122	Soil	0.85	77.65	83.15	134.1	85	57.9	57.4	1622	5.29	19.0	2.4	3.3	13.3	3.6	0.08	0.45	0.34	17	0.08	0.052
069123	Soil	0.68	78.34	49.63	114.9	132	54.3	26.0	673	5.64	38.1	2.3	16.5	12.5	7.7	0.04	0.54	0.48	18	0.16	0.093
069124	Soil	0.95	55.21	38.18	120.2	51	49.2	20.3	637	5.16	27.1	1.6	13.2	9.3	4.7	0.07	0.66	0.41	17	0.09	0.060
069125	Soil	0.64	38.50	28.76	110.8	47	45.9	15.9	576	4.87	62.1	1.8	25.0	8.8	5.0	0.08	0.58	0.39	18	0.08	0.086
069126	Soil	0.41	32.94	19.67	62.1	56	26.8	9.5	321	2.89	30.0	1.2	9.3	4.3	5.9	0.03	0.25	0.26	15	0.10	0.078
069127	Soil	0.51	42.59	26.62	103.6	40	44.4	17.0	598	4.72	18.3	1.8	6.0	9.0	4.1	0.01	0.46	0.39	19	0.07	0.075
069128	Soil	1.08	54.80	44.56	110.3	27	47.9	27.0	736	5.02	22.9	1.9	3.5	9.2	4.8	0.06	0.80	0.37	18	0.08	0.082
069129	Soil	0.41	45.98	24.08	116.8	22	53.6	21.5	647	5.02	10.5	0.9	4.5	9.9	2.8	0.07	0.19	0.39	17	0.05	0.050
069130	Soil	1.76	109.56	138.66	157.2	67	77.6	90.5	3457	5.63	19.3	2.6	1.8	21.3	4.0	0.33	0.61	0.64	19	0.07	0.050



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**Project:** NA-16176  
**Report Date:** September 17, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000235.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
069401	Soil	15.2	43.5	1.25	17.8	0.001	<1	2.82	0.002	0.02	<0.1	3.0	0.03	<0.02	15	0.2	0.17	7.5	1.93	<0.1	0.20
069402	Soil	11.7	31.5	1.02	11.8	0.003	<1	2.28	0.007	0.02	<0.1	2.0	0.02	<0.02	8	0.1	0.09	6.4	1.23	<0.1	0.10
069403	Soil	12.6	19.4	0.65	17.0	0.006	<1	1.51	0.012	0.03	<0.1	1.0	0.03	<0.02	<5	<0.1	0.04	4.2	0.76	<0.1	0.05
069404	Soil	12.9	23.2	0.53	30.5	0.001	<1	1.60	0.004	0.04	<0.1	1.3	0.04	0.02	22	<0.1	0.05	5.0	1.27	<0.1	0.03
069405	Soil	19.5	30.8	0.68	21.0	0.010	<1	1.84	0.005	0.04	0.2	1.6	0.07	0.03	49	0.3	0.06	6.5	0.97	<0.1	0.05
069406	Soil	14.2	19.5	0.35	32.5	0.008	<1	1.31	0.007	0.03	0.2	0.7	0.08	0.04	50	0.3	0.06	5.7	1.01	<0.1	<0.02
069407	Soil	21.1	33.9	0.88	20.4	0.010	<1	2.15	0.003	0.04	0.1	1.8	0.06	<0.02	33	0.1	0.06	6.1	0.87	<0.1	0.04
069408	Soil	31.6	20.6	0.43	21.7	0.007	<1	1.20	0.006	0.03	0.1	1.5	0.05	<0.02	30	0.1	0.04	3.9	0.68	<0.1	<0.02
069409	Soil	34.1	26.6	0.66	22.9	0.005	<1	1.71	0.004	0.04	0.1	2.1	0.07	<0.02	35	0.2	0.05	5.0	0.97	<0.1	0.03
069410	Soil	18.6	35.7	0.93	18.9	0.006	<1	2.34	0.003	0.03	<0.1	2.0	0.10	0.02	11	0.2	0.14	6.8	2.70	<0.1	0.08
069411	Soil	14.9	32.1	0.86	34.8	0.001	1	2.37	0.007	0.05	<0.1	3.6	0.05	<0.02	26	0.2	0.19	6.0	5.40	<0.1	0.09
069412	Soil	14.1	35.4	0.92	27.6	0.002	<1	2.52	0.005	0.04	<0.1	2.7	0.05	<0.02	16	0.3	0.12	6.7	5.03	<0.1	0.14
069413	Soil	47.2	36.2	1.04	17.1	<0.001	<1	2.64	0.004	0.07	<0.1	2.8	0.05	<0.02	6	<0.1	0.09	6.8	9.58	<0.1	0.07
069414	Soil	24.9	33.9	0.96	27.1	0.001	<1	2.30	0.004	0.04	<0.1	2.8	0.05	<0.02	6	<0.1	0.18	6.6	3.31	<0.1	0.04
069415	Soil	18.5	38.9	1.11	16.1	<0.001	<1	2.66	0.003	0.03	<0.1	2.1	0.03	<0.02	6	0.2	0.09	7.4	1.72	<0.1	0.07
069416	Soil	20.5	35.9	1.05	20.8	0.001	<1	2.60	0.003	0.03	<0.1	2.4	0.03	<0.02	11	0.2	0.10	6.4	1.42	<0.1	0.09
069417	Soil	20.1	37.3	1.01	16.7	0.002	<1	2.48	0.003	0.03	<0.1	2.2	0.03	<0.02	9	<0.1	0.09	7.2	1.85	<0.1	0.09
069418	Soil	9.0	15.2	0.34	39.9	0.003	<1	1.38	0.017	0.03	<0.1	0.8	0.05	0.05	13	0.2	0.05	4.2	1.79	<0.1	0.05
069419	Soil	12.8	33.6	0.79	46.4	0.003	<1	2.17	0.007	0.03	<0.1	1.6	0.03	0.02	11	0.2	0.08	6.7	1.32	<0.1	0.08
069420	Soil	15.2	30.0	0.96	18.0	<0.001	<1	2.24	0.004	0.03	<0.1	3.6	0.03	<0.02	7	<0.1	0.11	6.0	1.22	<0.1	0.10
069121	Soil	12.8	23.0	0.46	23.5	0.004	<1	1.63	0.007	0.03	<0.1	0.6	0.06	0.04	21	0.4	0.04	5.8	1.14	<0.1	0.03
069122	Soil	30.0	36.7	1.12	29.3	0.001	<1	2.72	0.004	0.03	<0.1	2.7	0.05	<0.02	11	0.1	0.06	7.0	2.70	<0.1	0.07
069123	Soil	34.7	35.3	1.11	18.6	0.003	<1	2.74	0.002	0.03	<0.1	2.2	0.03	<0.02	17	0.1	0.10	7.4	3.15	<0.1	0.11
069124	Soil	30.0	33.2	1.00	15.8	0.003	<1	2.52	0.002	0.03	<0.1	2.1	0.04	<0.02	20	0.1	0.08	6.6	3.00	<0.1	0.09
069125	Soil	24.9	34.2	0.92	19.3	0.005	<1	2.28	0.002	0.02	<0.1	1.6	0.03	<0.02	51	<0.1	0.02	6.3	0.83	<0.1	0.10
069126	Soil	22.3	19.5	0.55	16.9	0.009	<1	1.53	0.009	0.02	<0.1	1.1	0.03	<0.02	34	<0.1	0.03	4.0	1.23	<0.1	0.11
069127	Soil	32.4	38.3	0.99	18.0	0.005	<1	2.46	0.003	0.02	<0.1	1.9	0.03	<0.02	35	<0.1	0.10	6.7	1.28	<0.1	0.13
069128	Soil	30.8	36.0	0.96	24.9	0.005	<1	2.40	0.003	0.02	<0.1	1.7	0.03	<0.02	12	<0.1	0.06	7.3	2.30	<0.1	0.12
069129	Soil	23.2	40.1	1.17	18.0	0.002	<1	2.71	0.002	0.02	<0.1	2.0	<0.02	<0.02	12	<0.1	0.07	7.0	0.96	0.2	0.16
069130	Soil	27.1	42.0	1.21	68.0	<0.001	<1	2.98	0.004	0.03	<0.1	3.1	0.06	<0.02	30	<0.1	0.07	7.6	3.35	0.2	0.12



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**Project:** NA-16176  
**Report Date:** September 17, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
069401	Soil	0.07	3.1	0.3	<0.05	6.8	3.65	33.5	<0.02	<1	0.7	86.4	<10	<2
069402	Soil	0.07	2.0	0.2	<0.05	3.6	2.66	25.9	<0.02	<1	0.4	69.6	<10	<2
069403	Soil	0.10	2.5	0.2	<0.05	1.7	1.60	26.8	<0.02	<1	0.2	41.8	<10	<2
069404	Soil	0.15	4.9	0.3	<0.05	1.2	2.08	30.1	<0.02	<1	0.4	38.0	<10	<2
069405	Soil	0.34	4.9	0.6	<0.05	1.0	2.43	43.1	0.02	<1	0.1	46.3	<10	<2
069406	Soil	0.28	4.5	0.6	<0.05	0.1	2.19	31.6	<0.02	<1	0.3	20.3	<10	<2
069407	Soil	0.28	4.1	0.5	<0.05	1.1	2.77	47.3	0.02	<1	0.2	59.7	<10	<2
069408	Soil	0.16	3.0	1.0	<0.05	0.5	3.01	84.1	<0.02	<1	0.2	27.1	<10	<2
069409	Soil	0.13	3.4	0.3	<0.05	0.8	3.54	92.1	<0.02	<1	0.3	47.9	<10	<2
069410	Soil	0.24	3.5	0.4	<0.05	2.7	2.24	40.1	<0.02	<1	0.4	66.7	<10	<2
069411	Soil	0.04	4.6	0.4	<0.05	3.3	5.69	34.0	0.03	<1	0.7	68.4	<10	<2
069412	Soil	0.09	5.0	0.5	<0.05	5.3	4.37	29.9	0.03	<1	0.6	71.0	<10	<2
069413	Soil	0.03	5.1	0.2	<0.05	6.4	4.00	106.1	0.02	<1	0.6	88.9	<10	<2
069414	Soil	0.34	2.9	0.4	<0.05	1.5	3.75	53.4	<0.02	<1	0.5	71.0	<10	<2
069415	Soil	0.03	2.3	0.3	<0.05	2.5	2.23	39.6	0.02	<1	0.3	85.4	<10	<2
069416	Soil	0.06	2.8	0.2	<0.05	3.7	3.22	53.5	0.03	<1	0.6	76.3	<10	<2
069417	Soil	0.07	2.7	0.3	<0.05	3.4	2.44	43.7	<0.02	<1	0.3	74.1	<10	<2
069418	Soil	0.13	4.4	0.3	<0.05	1.7	3.34	19.9	<0.02	<1	0.4	23.8	<10	<2
069419	Soil	0.15	3.3	0.2	<0.05	2.8	1.91	27.3	<0.02	<1	0.2	57.3	<10	<2
069420	Soil	<0.02	1.7	0.1	<0.05	7.1	5.22	33.3	<0.02	<1	0.4	69.5	<10	<2
069121	Soil	0.25	4.1	0.5	<0.05	0.9	1.90	28.3	<0.02	<1	0.2	29.4	<10	<2
069122	Soil	0.03	2.4	0.3	<0.05	3.9	3.84	79.0	0.02	<1	0.5	87.8	<10	<2
069123	Soil	0.09	2.5	0.1	<0.05	5.3	3.95	92.7	0.03	<1	0.8	89.6	<10	<2
069124	Soil	0.11	2.6	0.2	<0.05	5.2	3.20	78.5	<0.02	<1	0.4	80.0	<10	<2
069125	Soil	0.09	2.9	0.1	<0.05	4.8	2.83	47.1	<0.02	<1	0.1	78.7	<10	<2
069126	Soil	0.17	3.5	0.3	<0.05	2.1	1.91	40.9	<0.02	<1	0.3	44.1	<10	<2
069127	Soil	0.11	3.5	0.2	<0.05	3.9	2.94	59.8	0.06	<1	0.3	81.9	<10	<2
069128	Soil	0.12	3.0	0.2	<0.05	4.0	2.67	56.7	0.03	<1	0.6	82.7	<10	<2
069129	Soil	<0.02	2.4	<0.1	<0.05	5.2	2.12	43.9	<0.02	<1	0.2	92.3	<10	<2
069130	Soil	<0.02	3.7	0.2	<0.05	7.2	5.83	51.0	0.03	1	0.4	110.9	<10	<2



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**Project:** NA-16176  
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# CERTIFICATE OF ANALYSIS

# WHI16000235.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
069131	Soil	0.37	45.11	23.26	110.6	26	51.3	20.2	715	4.55	8.5	2.0	0.8	15.0	4.6	0.03	0.24	0.23	15	0.09	0.032
069132	Soil	0.38	49.87	24.34	111.6	57	54.1	21.3	749	4.88	69.6	1.5	12.8	12.7	8.4	0.04	0.59	0.48	15	0.23	0.040
069133	Soil	0.54	60.56	36.94	100.7	59	48.7	24.6	987	4.55	34.9	1.5	3.9	11.2	11.0	0.04	2.24	0.63	12	0.25	0.047
069134	Soil	0.21	32.97	33.56	40.1	23	16.8	20.9	859	1.82	46.8	1.1	52.3	3.5	6.9	0.03	0.39	0.18	11	0.10	0.059
069135	Soil	0.80	70.47	56.76	86.8	83	41.5	36.4	1489	3.70	17.1	1.0	1.2	6.5	5.7	0.04	0.18	0.45	17	0.10	0.056
069136	Soil	0.72	27.45	38.13	84.2	55	46.6	23.9	2178	4.56	9.5	0.5	<0.2	4.7	2.7	<0.01	0.10	0.44	18	0.03	0.075
069137	Soil	0.81	64.74	51.75	69.4	52	48.1	26.4	3078	3.51	8.5	1.1	<0.2	3.7	5.5	0.06	0.14	0.75	16	0.06	0.081
069138	Soil	0.63	23.03	13.18	37.3	73	19.2	8.6	791	2.35	4.5	0.5	0.4	1.2	4.6	<0.01	0.16	0.38	13	0.03	0.108
069139	Soil	0.51	50.81	26.06	99.3	59	46.9	17.5	909	4.42	11.8	2.3	2.4	6.9	4.9	0.05	0.25	0.45	18	0.04	0.047
069140	Soil	0.52	24.90	15.33	51.2	47	19.2	5.8	236	2.26	9.3	1.0	2.0	2.4	7.9	0.04	0.30	0.32	14	0.05	0.081
072771	Soil	0.65	82.23	56.28	125.9	140	51.2	30.7	1049	4.70	20.1	2.5	3.1	9.3	4.8	0.09	0.76	0.52	14	0.09	0.052
072772	Soil	0.77	75.27	49.03	128.8	154	56.7	32.7	945	5.29	117.9	2.4	25.9	9.1	5.6	0.13	1.67	0.72	12	0.12	0.040
072773	Soil	0.74	57.25	55.65	111.5	285	46.2	24.5	832	4.63	109.8	2.2	9.1	7.1	8.5	0.10	1.25	0.59	11	0.20	0.067
072774	Soil	0.68	39.54	38.93	74.6	230	39.9	32.4	1965	2.67	48.9	1.1	8.0	0.5	25.6	1.41	1.18	0.78	8	1.03	0.091
072775	Soil	0.71	44.76	120.17	116.0	825	41.0	27.0	1454	3.81	77.4	1.5	7.8	4.7	19.6	0.35	0.98	0.45	9	0.85	0.116
072776	Soil	0.67	25.94	29.00	92.9	265	21.5	12.9	1964	2.06	61.7	0.8	3.6	0.7	13.4	1.12	0.63	0.34	9	0.25	0.062
072777	Soil	0.58	48.31	51.95	91.4	258	36.0	19.9	1000	4.21	107.2	1.0	9.4	4.0	4.8	0.09	0.92	0.51	12	0.09	0.052
072778	Soil	0.68	14.56	12.89	41.3	95	11.7	4.0	144	2.08	24.0	0.7	1.7	3.3	6.7	0.12	0.35	0.35	31	0.07	0.030
072779	Soil	1.08	16.84	37.91	119.1	184	18.8	9.0	250	4.05	129.6	0.6	1.2	6.4	6.4	0.55	0.54	0.49	27	0.09	0.031
072780	Soil	0.59	22.16	17.22	103.6	111	33.1	11.5	332	3.37	101.7	1.5	9.5	6.5	16.5	0.11	0.56	0.29	12	0.42	0.028
072781	Soil	0.83	27.77	20.09	79.7	104	27.8	11.3	340	5.09	33.1	0.7	0.2	8.2	8.6	0.17	0.56	0.51	21	0.10	0.038
072782	Soil	1.13	52.71	79.27	144.7	102	32.7	18.6	305	4.47	26.1	2.9	3.5	9.1	10.8	0.28	0.90	0.69	18	0.04	0.042
072783	Soil	0.49	15.62	19.26	83.0	105	15.0	7.2	482	3.76	7.5	0.7	<0.2	2.1	4.8	0.24	0.31	0.44	23	0.03	0.117
072784	Soil	0.35	25.53	23.85	90.9	47	37.8	14.8	367	3.59	6.7	0.8	0.4	8.0	5.3	0.10	0.26	0.36	14	0.09	0.049
072785	Soil	0.70	35.15	57.50	81.9	121	36.6	23.4	834	3.72	43.3	1.3	7.1	9.0	6.1	0.11	0.81	0.41	12	0.12	0.033
072786	Soil	0.59	43.10	37.86	93.6	94	35.3	19.5	1066	4.09	15.5	1.2	3.3	4.9	10.2	0.10	0.67	0.44	13	0.33	0.069
072787	Soil	0.77	67.33	55.00	115.8	251	51.0	27.3	976	4.68	31.0	2.6	6.0	14.1	8.4	0.11	0.90	0.55	14	0.18	0.060
072788	Soil	0.29	13.09	15.31	25.2	136	9.2	4.9	288	1.11	13.7	0.7	3.4	0.4	6.4	0.10	0.22	0.15	8	0.20	0.057
072789	Soil	0.65	59.30	62.96	100.6	227	41.3	26.9	1041	3.97	165.4	2.4	21.1	9.3	13.1	0.19	1.05	0.52	11	0.34	0.058
072790	Soil	0.66	58.32	58.24	100.3	176	41.4	25.4	1018	3.91	162.5	2.3	9.4	9.5	12.0	0.12	0.98	0.53	11	0.32	0.060



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**Project:** NA-16176  
**Report Date:** September 17, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000235.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
069131	Soil	26.6	40.0	1.14	9.6	<0.001	<1	2.59	0.004	0.05	<0.1	2.3	0.02	<0.02	10	<0.1	<0.02	6.9	1.99	<0.1	0.09
069132	Soil	27.9	37.2	1.08	31.0	<0.001	<1	2.60	0.004	0.04	<0.1	2.9	0.04	<0.02	17	0.2	<0.02	7.2	2.43	<0.1	0.14
069133	Soil	22.3	24.0	0.73	43.8	0.001	<1	1.86	0.007	0.03	<0.1	4.2	0.04	0.02	25	<0.1	0.12	4.9	1.40	<0.1	0.05
069134	Soil	10.1	13.7	0.38	27.5	0.004	<1	1.17	0.015	0.02	<0.1	1.0	0.03	0.02	5	0.2	0.04	3.2	0.85	<0.1	0.10
069135	Soil	22.7	30.1	1.01	18.2	0.004	<1	2.09	0.009	0.02	<0.1	2.3	0.03	<0.02	18	<0.1	0.13	5.6	1.59	0.1	0.02
069136	Soil	18.7	34.9	1.13	13.7	0.005	<1	2.23	0.003	0.02	<0.1	1.7	<0.02	0.03	31	<0.1	0.14	7.1	1.25	0.4	0.12
069137	Soil	17.0	29.2	0.89	25.6	0.005	<1	2.03	0.012	0.03	<0.1	2.0	<0.02	0.02	28	<0.1	0.18	5.4	2.03	<0.1	0.12
069138	Soil	12.0	19.6	0.46	21.0	0.004	<1	1.21	0.009	0.02	<0.1	0.7	0.04	0.04	29	0.1	0.08	4.3	1.73	<0.1	0.03
069139	Soil	4.5	40.0	1.03	22.2	0.001	<1	2.57	0.007	0.02	<0.1	2.1	0.04	<0.02	23	<0.1	0.05	7.4	3.90	0.1	0.13
069140	Soil	12.6	20.1	0.47	44.0	0.003	<1	1.37	0.006	0.03	<0.1	0.9	0.06	0.04	19	<0.1	0.07	4.6	1.21	<0.1	0.03
072771	Soil	15.0	32.4	0.89	20.5	0.001	<1	2.16	0.007	0.04	<0.1	2.2	0.04	<0.02	22	<0.1	0.12	5.9	3.64	<0.1	0.08
072772	Soil	10.6	28.4	0.79	17.4	0.001	<1	1.93	0.004	0.04	<0.1	2.5	0.04	0.02	5	<0.1	0.08	4.8	2.61	<0.1	0.06
072773	Soil	8.3	26.1	0.66	28.7	0.001	<1	1.77	0.005	0.05	<0.1	2.3	0.04	0.04	24	<0.1	0.17	5.2	3.49	<0.1	0.17
072774	Soil	4.5	11.9	0.32	30.8	0.005	<1	0.91	0.014	0.03	<0.1	1.2	0.03	0.11	35	<0.1	0.20	2.7	0.92	<0.1	0.04
072775	Soil	5.0	20.7	0.57	30.4	0.002	<1	1.36	0.005	0.05	<0.1	1.9	0.04	0.08	49	<0.1	0.14	3.5	1.37	<0.1	0.17
072776	Soil	5.2	10.6	0.18	65.1	0.004	<1	0.73	0.014	0.05	<0.1	0.6	0.03	0.05	57	0.3	0.08	2.4	1.53	<0.1	<0.02
072777	Soil	11.8	20.3	0.52	20.8	0.002	<1	1.45	0.009	0.03	<0.1	1.4	0.03	<0.02	30	<0.1	0.19	4.0	1.60	<0.1	0.02
072778	Soil	25.6	11.6	0.11	38.4	0.010	<1	0.64	0.007	0.04	<0.1	0.7	0.04	<0.02	9	<0.1	0.08	7.1	1.46	<0.1	<0.02
072779	Soil	27.6	20.8	0.27	24.2	0.007	<1	1.09	0.003	0.05	0.2	1.2	0.05	<0.02	<5	<0.1	0.07	6.5	1.90	<0.1	<0.02
072780	Soil	18.6	21.5	0.54	29.3	0.002	<1	1.44	0.004	0.04	<0.1	1.4	0.03	0.02	20	<0.1	0.03	4.3	1.68	<0.1	0.06
072781	Soil	28.5	26.2	0.52	36.4	0.007	<1	1.53	0.004	0.05	0.1	1.3	0.03	<0.02	13	<0.1	0.15	6.3	1.61	<0.1	0.02
072782	Soil	16.0	24.0	0.43	32.2	0.004	<1	1.57	0.005	0.04	<0.1	1.3	0.03	0.02	17	0.2	0.23	5.7	4.48	0.1	<0.02
072783	Soil	24.0	15.7	0.29	28.3	0.005	<1	1.05	0.005	0.04	<0.1	0.7	0.04	<0.02	25	<0.1	0.06	6.7	1.16	<0.1	<0.02
072784	Soil	19.7	29.6	0.77	25.0	0.003	<1	1.84	0.005	0.05	<0.1	1.1	0.03	<0.02	27	<0.1	0.09	5.5	1.06	<0.1	0.03
072785	Soil	18.9	20.7	0.51	34.3	0.002	<1	1.65	0.004	0.03	<0.1	1.4	0.04	<0.02	16	<0.1	0.07	3.9	1.26	<0.1	0.03
072786	Soil	10.1	25.8	0.65	27.5	0.002	<1	1.80	0.005	0.04	<0.1	1.7	0.03	0.04	17	<0.1	0.18	5.6	1.84	<0.1	0.19
072787	Soil	21.0	29.1	0.74	22.7	0.001	<1	1.91	0.002	0.06	<0.1	2.9	0.04	<0.02	14	<0.1	0.13	5.2	1.96	<0.1	0.06
072788	Soil	4.5	6.4	0.10	16.4	0.007	<1	0.64	0.019	0.02	<0.1	0.3	0.02	0.06	40	<0.1	<0.02	2.1	0.51	<0.1	<0.02
072789	Soil	15.8	20.6	0.60	27.7	0.001	<1	1.51	0.003	0.04	<0.1	2.1	0.04	0.03	18	<0.1	0.08	3.4	1.45	<0.1	0.10
072790	Soil	15.4	21.2	0.59	27.7	0.001	<1	1.52	0.003	0.04	<0.1	2.0	0.03	0.03	29	<0.1	0.14	3.7	1.40	<0.1	0.08



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
069131	Soil	<0.02	3.7	0.1	<0.05	5.4	3.25	48.2	<0.02	<1	0.3	95.5	<10	<2
069132	Soil	<0.02	4.5	0.1	<0.05	5.8	4.69	50.6	0.03	<1	0.5	85.2	<10	<2
069133	Soil	0.05	3.0	0.2	<0.05	3.8	10.06	41.1	0.03	<1	0.3	50.8	<10	3
069134	Soil	0.10	2.5	0.3	<0.05	2.1	2.39	20.9	<0.02	1	0.6	23.2	<10	<2
069135	Soil	0.02	2.1	0.2	<0.05	2.0	3.98	40.3	<0.02	<1	0.3	72.1	<10	<2
069136	Soil	0.10	2.8	0.3	<0.05	3.5	1.73	34.8	<0.02	3	<0.1	74.9	<10	<2
069137	Soil	0.08	3.1	0.7	<0.05	4.4	3.74	32.2	<0.02	<1	0.2	62.9	<10	4
069138	Soil	0.13	3.7	0.3	<0.05	2.1	1.61	21.6	<0.02	<1	0.3	28.9	<10	4
069139	Soil	0.03	3.2	0.2	<0.05	3.3	2.15	11.0	0.05	<1	0.9	79.1	11	3
069140	Soil	0.24	5.8	0.3	<0.05	1.2	1.92	23.5	<0.02	<1	0.2	31.8	<10	3
072771	Soil	<0.02	2.8	3.6	<0.05	3.0	4.24	25.6	0.03	1	0.9	62.1	<10	<2
072772	Soil	0.04	2.5	1.2	<0.05	2.7	4.14	19.4	0.03	<1	0.6	55.7	<10	3
072773	Soil	0.04	4.0	17.0	<0.05	4.5	4.82	15.5	0.05	<1	1.2	47.6	<10	<2
072774	Soil	0.28	1.9	1.1	<0.05	0.9	5.07	11.3	<0.02	<1	0.3	19.6	<10	<2
072775	Soil	0.08	4.6	>100	<0.05	5.7	3.66	10.2	<0.02	<1	0.3	37.9	<10	5
072776	Soil	0.22	4.2	1.5	<0.05	0.7	1.68	10.0	0.03	1	0.5	13.5	<10	3
072777	Soil	0.07	3.0	15.8	<0.05	1.5	2.52	21.6	0.05	<1	0.6	40.9	10	4
072778	Soil	0.42	6.9	1.1	<0.05	0.3	1.98	48.0	<0.02	<1	<0.1	9.3	<10	<2
072779	Soil	0.72	8.8	24.9	<0.05	0.5	1.62	51.6	<0.02	<1	0.2	28.6	<10	<2
072780	Soil	0.25	6.2	0.8	<0.05	2.0	1.82	35.4	<0.02	<1	0.4	43.9	<10	<2
072781	Soil	0.48	6.0	3.9	<0.05	2.0	1.95	52.5	<0.02	<1	<0.1	39.0	<10	<2
072782	Soil	0.37	5.3	0.8	<0.05	1.6	2.07	29.7	0.04	<1	0.4	44.1	10	<2
072783	Soil	0.18	6.6	8.5	<0.05	0.4	1.28	45.6	<0.02	<1	<0.1	19.3	<10	<2
072784	Soil	0.16	4.0	1.0	<0.05	2.6	2.25	38.2	<0.02	1	0.5	61.0	<10	5
072785	Soil	0.13	4.0	13.4	<0.05	2.7	4.29	39.2	0.06	<1	0.3	43.7	<10	2
072786	Soil	0.09	4.1	0.6	<0.05	4.9	3.12	19.8	<0.02	<1	0.3	53.5	<10	5
072787	Soil	0.04	3.0	7.6	<0.05	5.0	7.68	39.4	<0.02	1	0.3	59.0	<10	3
072788	Soil	0.20	1.3	0.7	<0.05	0.7	1.83	8.9	<0.02	<1	0.3	6.2	<10	3
072789	Soil	0.06	2.7	6.4	<0.05	4.4	6.97	31.2	0.03	<1	0.8	45.6	<10	<2
072790	Soil	0.06	2.5	1.3	<0.05	4.0	6.73	29.9	0.02	2	<0.1	42.4	<10	<2



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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
069251	Soil	1.07	45.93	57.39	120.0	241	44.0	19.5	629	4.28	13.4	4.0	<0.2	16.0	80.1	0.25	1.29	0.44	10	2.01	0.100	
069252	Soil	0.83	69.82	65.02	110.7	224	53.2	33.5	948	4.76	15.5	3.6	0.7	16.1	41.2	0.13	1.10	0.66	11	0.93	0.092	
069253	Soil	0.63	48.17	44.56	75.2	230	36.1	22.5	579	3.73	21.9	2.9	4.2	16.5	17.3	0.15	1.18	0.53	5	0.22	0.050	
069254	Soil	1.22	22.80	26.52	59.3	52	27.1	11.3	554	2.68	3.6	1.4	1.4	11.4	78.5	0.16	0.26	0.23	5	2.11	0.048	
069255	Soil	2.11	61.47	44.32	109.3	174	55.7	23.9	281	4.73	6.8	2.6	1.0	13.1	39.1	0.29	0.45	0.30	6	0.67	0.046	
069256	Soil	1.52	147.84	67.95	167.2	342	123.1	87.6	2915	5.34	19.7	8.3	1.6	12.5	90.9	0.49	0.85	0.51	15	0.46	0.188	
069257	Soil	0.76	98.25	76.00	112.6	138	59.3	53.1	1398	4.26	15.6	4.1	1.6	19.0	33.0	0.13	0.53	0.48	14	0.21	0.052	
069258	Soil	1.22	123.22	86.51	130.7	176	89.0	88.4	2096	5.11	23.2	7.1	3.8	21.4	32.6	0.26	1.41	0.58	14	0.24	0.050	
069259	Soil	0.83	96.93	73.37	115.8	194	69.2	82.3	1269	4.73	21.4	4.8	9.2	18.1	16.7	0.15	1.37	0.49	17	0.08	0.054	
069260	Soil	0.91	101.63	70.26	122.3	382	68.6	60.4	1542	5.33	43.1	4.4	13.6	25.7	32.6	0.08	2.80	0.79	14	0.28	0.067	
070151	Soil	0.54	39.39	38.02	78.2	233	42.9	17.8	267	3.79	33.1	3.6	4.6	12.8	168.9	0.04	2.09	0.30	4	5.19	0.054	
070152	Soil	0.43	28.22	22.86	57.1	132	32.9	15.8	450	2.88	20.2	1.9	5.7	10.7	26.9	0.01	1.67	0.27	6	0.40	0.056	
070153	Soil	0.40	38.83	28.67	83.5	158	40.5	16.1	236	3.93	20.4	3.4	2.9	10.6	255.0	0.10	1.28	0.33	7	6.03	0.085	
070154	Soil	0.47	41.65	31.01	91.9	108	45.5	19.6	588	4.02	16.7	2.1	4.8	11.9	50.3	0.10	1.08	0.38	11	0.84	0.059	
070155	Soil	0.55	47.06	41.29	88.6	149	45.7	22.6	373	3.97	18.0	2.2	2.5	12.8	174.3	0.06	0.96	0.41	9	4.05	0.063	
070156	Soil	0.53	45.87	48.19	111.9	211	42.2	22.8	542	4.07	367.9	1.6	29.6	20.6	52.8	0.14	1.06	0.41	9	1.03	0.051	
070157	Soil	0.59	45.58	148.30	179.3	661	43.2	22.2	660	4.00	1279.2	1.5	159.9	15.2	69.2	0.86	2.99	0.46	9	1.44	0.045	
070158	Soil	0.62	113.35	70.70	149.2	296	58.9	51.2	893	5.19	249.1	2.7	25.1	14.1	17.5	0.16	1.33	0.51	15	0.19	0.044	
070159	Soil	0.66	56.50	67.47	120.6	383	46.8	25.9	728	4.26	501.2	1.8	83.0	15.6	35.7	0.19	2.18	0.48	11	0.40	0.056	
070160	Soil	0.51	62.20	64.61	112.1	335	38.3	24.4	583	3.85	381.1	2.1	59.1	11.3	39.4	0.23	1.63	0.51	11	0.50	0.064	
070201	Soil	0.46	43.43	27.41	90.0	78	41.1	12.6	491	4.40	26.3	1.1	5.0	10.6	3.0	0.05	0.66	0.47	15	0.01	0.035	
070202	Soil	0.34	24.64	23.12	76.8	40	34.9	10.7	443	4.09	21.2	0.9	2.0	7.5	2.9	0.02	0.39	0.46	15	0.02	0.071	
070203	Soil	0.33	46.52	29.48	92.2	29	45.2	17.2	559	4.12	27.4	1.1	6.4	10.3	3.4	0.04	0.52	0.58	14	0.02	0.034	
070204	Soil	0.82	71.88	35.12	129.7	62	54.7	24.3	763	4.45	19.3	5.9	4.5	11.4	8.1	0.05	0.34	0.59	17	0.11	0.047	
070205	Soil	0.48	54.28	28.53	96.0	116	43.0	11.9	381	3.73	29.2	2.1	5.5	6.6	41.3	0.07	0.35	0.46	15	0.82	0.057	
070206	Soil	0.43	36.46	35.91	91.8	94	40.4	19.2	506	3.91	11.8	1.4	4.3	12.2	24.6	0.06	0.49	0.44	13	0.33	0.060	
070207	Soil	0.34	36.66	33.89	96.8	92	41.3	17.8	429	3.85	11.7	1.5	1.5	13.4	22.9	0.07	0.61	0.43	13	0.32	0.053	
070208	Soil	0.35	36.88	33.04	103.2	92	40.6	14.2	324	3.79	10.7	1.5	4.8	12.6	29.4	0.08	0.52	0.43	12	0.44	0.053	
070209	Soil	0.32	45.41	51.32	105.1	118	40.4	27.2	510	4.02	10.2	1.8	0.6	19.4	61.7	0.06	2.13	0.46	8	2.15	0.050	
070210	Soil	0.40	43.09	61.35	89.8	107	39.2	24.5	704	3.91	5.3	1.6	1.6	11.3	55.5	0.09	0.64	0.35	7	0.96	0.054	



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9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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**Client:** Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

**Project:** NA-16176  
**Report Date:** September 17, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000235.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
069251	Soil	23.6	20.5	0.56	27.2	0.002	3	1.39	0.008	0.05	<0.1	4.8	0.05	0.04	47	<0.1	0.07	3.2	1.00	<0.1	0.13
069252	Soil	20.5	26.2	0.68	31.1	0.002	4	1.63	0.008	0.05	<0.1	4.5	0.04	0.05	44	<0.1	0.08	4.7	0.74	<0.1	0.18
069253	Soil	15.1	8.8	0.29	19.8	0.001	2	0.66	0.002	0.02	<0.1	3.3	<0.02	0.04	30	<0.1	0.06	1.6	0.53	<0.1	0.11
069254	Soil	19.0	9.3	0.37	25.0	0.001	2	0.70	0.003	0.04	<0.1	3.6	0.03	0.05	49	<0.1	0.03	1.4	0.27	<0.1	0.16
069255	Soil	15.2	14.6	0.56	31.2	0.001	2	1.03	0.002	0.03	<0.1	3.5	0.05	0.36	85	0.5	0.04	2.1	1.00	<0.1	0.15
069256	Soil	15.4	31.3	0.76	67.1	0.002	4	3.34	0.012	0.05	<0.1	3.7	0.10	0.12	87	0.2	0.06	5.1	1.75	0.1	0.22
069257	Soil	17.5	34.3	1.01	35.4	<0.001	<1	2.34	0.006	0.03	<0.1	1.5	0.07	<0.02	26	<0.1	0.09	5.9	1.23	<0.1	0.11
069258	Soil	12.2	31.8	0.93	45.1	<0.001	2	2.23	0.008	0.04	<0.1	2.9	0.11	0.07	35	0.2	0.04	5.2	1.43	<0.1	0.14
069259	Soil	22.1	35.7	1.03	44.9	0.001	3	2.58	0.006	0.04	<0.1	2.3	0.09	0.03	25	0.3	0.06	6.1	1.40	<0.1	0.08
069260	Soil	19.6	34.3	0.98	34.2	<0.001	2	2.46	0.007	0.06	<0.1	3.2	0.08	<0.02	28	0.4	0.10	5.5	1.84	<0.1	0.12
070151	Soil	15.7	9.4	0.32	21.7	0.002	2	0.80	0.004	0.04	<0.1	2.7	0.04	0.06	38	0.3	0.06	1.6	0.88	<0.1	0.18
070152	Soil	14.7	10.1	0.31	37.3	<0.001	2	1.13	0.002	0.04	<0.1	2.6	0.05	<0.02	61	<0.1	0.03	1.9	1.05	<0.1	0.06
070153	Soil	21.8	10.9	0.35	29.8	0.002	6	0.97	0.007	0.04	<0.1	2.9	0.04	0.04	70	<0.1	0.06	1.8	0.62	<0.1	0.07
070154	Soil	16.2	23.9	0.70	39.6	0.002	2	1.88	0.005	0.04	<0.1	2.8	0.04	<0.02	39	0.3	<0.02	4.6	0.49	<0.1	0.13
070155	Soil	19.6	20.2	0.70	21.1	0.001	<1	1.46	0.003	0.03	<0.1	2.3	0.03	<0.02	33	<0.1	0.06	3.5	0.59	<0.1	0.16
070156	Soil	18.9	21.6	0.64	32.5	<0.001	1	1.71	0.003	0.04	<0.1	2.2	0.02	<0.02	35	0.6	0.05	3.5	1.08	<0.1	0.12
070157	Soil	18.6	18.6	0.54	42.3	0.001	2	1.49	0.003	0.06	0.3	2.7	0.04	0.04	27	<0.1	0.11	3.5	0.94	<0.1	0.09
070158	Soil	14.0	38.7	1.10	26.0	<0.001	1	2.73	0.005	0.05	<0.1	3.4	0.05	<0.02	29	<0.1	0.08	7.3	2.50	<0.1	0.20
070159	Soil	23.5	22.5	0.64	38.3	0.001	2	1.71	0.004	0.05	<0.1	3.2	0.05	0.02	8	0.2	0.07	4.4	0.94	<0.1	0.15
070160	Soil	21.3	21.6	0.59	59.9	0.003	<1	1.94	0.011	0.06	<0.1	2.8	0.05	<0.02	24	<0.1	0.04	4.4	1.27	<0.1	0.14
070201	Soil	37.7	34.4	0.94	39.3	0.001	<1	2.50	0.005	0.05	<0.1	1.7	0.08	<0.02	42	0.2	0.07	5.6	1.12	<0.1	0.11
070202	Soil	31.6	31.6	0.84	33.7	0.001	2	2.31	0.004	0.04	<0.1	1.3	0.05	<0.02	24	<0.1	0.09	6.1	1.13	<0.1	0.08
070203	Soil	36.1	32.9	0.93	32.4	0.001	2	2.28	0.004	0.06	<0.1	1.7	0.04	<0.02	24	<0.1	0.18	5.4	0.88	<0.1	0.09
070204	Soil	28.4	38.4	1.09	52.8	0.002	<1	2.54	0.005	0.04	<0.1	3.2	0.04	<0.02	20	<0.1	0.11	6.2	1.48	<0.1	0.06
070205	Soil	10.9	35.7	0.97	33.8	0.002	2	2.11	0.006	0.04	<0.1	2.2	0.03	0.07	23	0.3	0.03	5.3	0.64	<0.1	0.22
070206	Soil	21.0	30.0	0.78	32.5	0.002	<1	1.88	0.003	0.04	<0.1	2.1	0.04	0.02	22	0.1	0.04	5.0	0.67	<0.1	0.13
070207	Soil	23.9	32.1	0.81	25.5	0.003	2	1.85	0.003	0.03	<0.1	2.4	0.02	<0.02	8	0.3	0.03	5.0	0.57	<0.1	0.11
070208	Soil	19.8	29.8	0.78	29.5	0.002	3	1.83	0.003	0.04	<0.1	3.0	0.02	0.03	27	<0.1	<0.02	4.4	0.56	<0.1	0.11
070209	Soil	15.0	20.3	0.71	32.5	<0.001	3	1.78	0.002	0.05	<0.1	3.4	0.04	0.04	18	<0.1	<0.02	4.2	0.93	0.1	0.23
070210	Soil	16.1	15.8	0.50	30.7	0.001	2	1.35	0.004	0.04	<0.1	4.0	0.04	0.07	31	<0.1	0.05	3.2	0.73	<0.1	0.16



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
069251	Soil	0.05	3.4	10.2	<0.05	15.9	17.53	43.8	0.10	<1	0.8	34.9	<10	<2
069252	Soil	<0.02	2.7	3.5	<0.05	17.5	15.01	37.4	0.03	<1	0.2	57.3	<10	3
069253	Soil	0.02	1.4	18.3	<0.05	12.0	12.29	29.3	<0.02	<1	0.5	16.3	<10	<2
069254	Soil	0.02	2.0	1.7	<0.05	8.8	14.53	40.7	0.04	1	0.5	19.9	<10	<2
069255	Soil	0.05	2.1	7.5	<0.05	14.0	13.70	30.3	<0.02	2	0.6	32.8	<10	5
069256	Soil	0.08	4.8	0.7	<0.05	7.7	26.78	29.1	0.07	<1	1.7	82.2	<10	4
069257	Soil	<0.02	2.0	9.1	<0.05	9.1	7.24	30.4	<0.02	<1	0.6	93.1	<10	<2
069258	Soil	0.02	2.5	0.7	<0.05	14.6	12.06	23.2	<0.02	<1	1.0	85.8	<10	7
069259	Soil	0.04	3.7	6.2	<0.05	4.8	8.64	38.6	<0.02	<1	0.4	95.1	<10	2
069260	Soil	<0.02	4.0	1.3	<0.05	11.1	12.30	34.1	0.05	<1	0.4	86.5	20	<2
070151	Soil	0.03	2.1	8.2	<0.05	11.3	6.95	28.8	<0.02	1	0.7	16.5	13	3
070152	Soil	0.02	3.0	0.5	<0.05	2.8	7.56	29.3	<0.02	<1	0.3	16.8	<10	<2
070153	Soil	0.06	2.5	6.2	<0.05	7.0	7.99	38.8	<0.02	<1	0.2	21.1	<10	<2
070154	Soil	0.08	2.9	1.5	<0.05	6.3	7.64	31.1	0.02	<1	0.2	53.4	11	4
070155	Soil	0.04	1.8	11.3	<0.05	10.5	7.76	36.3	<0.02	<1	0.8	47.4	<10	4
070156	Soil	0.03	2.5	2.1	<0.05	8.9	8.20	35.0	<0.02	<1	0.4	41.5	<10	3
070157	Soil	<0.02	3.4	18.9	<0.05	7.3	6.10	37.4	0.04	<1	0.3	31.6	<10	<2
070158	Soil	<0.02	2.9	1.9	<0.05	9.5	6.74	29.5	<0.02	5	1.0	86.1	<10	<2
070159	Soil	<0.02	3.2	6.6	<0.05	7.8	8.60	44.0	0.06	<1	0.7	45.7	<10	<2
070160	Soil	0.11	4.0	1.8	<0.05	5.7	7.79	39.9	0.05	1	0.9	44.7	<10	4
070201	Soil	0.08	4.9	1.3	<0.05	3.7	2.46	72.9	0.03	<1	0.8	68.9	12	<2
070202	Soil	0.09	4.7	0.2	<0.05	2.9	1.69	59.7	<0.02	<1	0.3	62.3	<10	2
070203	Soil	0.05	4.1	1.3	<0.05	2.4	3.10	68.1	<0.02	1	0.6	72.7	<10	<2
070204	Soil	0.04	3.6	0.2	<0.05	3.0	6.36	53.1	0.03	<1	0.8	83.1	<10	5
070205	Soil	0.07	3.2	3.8	<0.05	6.3	5.30	20.4	0.03	2	0.4	61.2	<10	<2
070206	Soil	0.07	3.5	0.8	<0.05	4.7	7.59	40.4	0.02	<1	0.4	54.1	<10	<2
070207	Soil	0.04	3.1	1.3	<0.05	5.4	8.27	46.3	<0.02	<1	0.5	58.3	<10	4
070208	Soil	0.10	3.8	0.4	<0.05	6.0	9.38	38.5	0.02	<1	1.1	56.2	<10	<2
070209	Soil	<0.02	3.2	2.7	<0.05	9.5	10.34	30.1	<0.02	<1	0.7	52.1	<10	<2
070210	Soil	0.07	3.1	0.6	<0.05	6.4	18.88	32.3	0.06	<1	0.7	40.4	<10	<2



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# CERTIFICATE OF ANALYSIS

# WHI16000235.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
069431	Soil	0.52	85.77	65.84	96.7	200	44.7	42.8	1017	3.86	16.5	2.0	1.1	21.6	18.4	0.03	0.75	0.59	12	0.28	0.036
069432	Soil	0.48	33.36	47.62	67.8	129	31.9	19.8	1397	3.05	29.7	1.9	6.2	12.3	49.9	0.11	1.36	0.33	6	0.78	0.075
069433	Soil	0.52	39.84	47.35	67.9	108	33.8	17.4	865	2.96	40.6	1.3	5.9	15.5	25.2	0.12	0.61	0.30	7	0.43	0.046
069434	Soil	0.51	69.94	57.15	100.5	117	47.8	32.9	945	4.06	13.0	1.9	1.2	19.0	21.8	0.06	0.57	0.58	12	0.27	0.047
069435	Soil	0.58	66.32	47.72	99.0	62	45.3	20.5	528	4.16	14.0	2.7	5.1	18.0	16.9	0.06	0.64	0.71	12	0.20	0.039
069436	Soil	0.45	53.76	38.55	93.6	131	42.3	21.0	502	4.09	14.2	1.5	3.0	16.4	23.6	0.06	0.67	0.56	12	0.33	0.044
069437	Soil	0.36	57.14	44.26	90.6	142	40.8	19.1	441	3.98	15.1	1.6	3.5	14.4	24.5	0.05	0.65	0.63	12	0.37	0.042
069438	Soil	0.44	42.17	34.44	94.3	70	37.6	16.5	447	3.98	13.5	1.4	3.6	12.6	19.4	0.06	0.52	0.55	15	0.27	0.041
069439	Soil	0.35	42.38	39.27	91.7	94	39.2	19.7	527	3.75	29.4	1.7	8.1	10.8	36.1	0.06	0.51	0.44	16	0.48	0.058
069440	Soil	0.31	51.98	39.36	93.6	102	42.7	18.1	443	4.02	108.2	1.3	26.7	14.0	23.7	0.07	0.72	0.50	15	0.38	0.048
069441	Soil	0.36	45.13	38.17	89.1	83	45.7	22.1	689	3.78	39.4	2.3	6.0	12.7	63.2	0.09	0.73	0.46	17	1.12	0.053
069442	Soil	0.48	44.57	33.63	88.7	71	47.7	20.6	613	3.73	16.2	1.2	4.5	12.8	32.3	0.09	0.65	0.41	18	0.57	0.042
069443	Soil	0.56	49.66	45.01	88.1	144	47.7	23.3	670	3.85	18.3	1.4	3.7	14.4	43.8	0.07	0.72	0.46	18	0.93	0.047
069444	Soil	0.51	52.15	37.41	94.9	98	50.8	24.0	606	4.00	24.4	1.9	58.1	15.1	43.1	0.08	0.73	0.48	19	0.72	0.053
069445	Soil	0.38	44.24	36.85	93.7	76	44.3	20.9	574	3.96	41.1	1.3	6.5	12.0	35.4	0.10	0.74	0.43	17	0.45	0.080
069446	Soil	0.90	59.34	52.03	103.8	212	50.5	28.5	843	4.67	21.7	3.6	3.2	15.7	64.2	0.16	1.39	0.60	8	1.50	0.076
069447	Soil	1.14	59.82	75.95	75.7	134	42.6	26.6	649	3.99	11.2	2.5	2.6	18.1	26.7	0.10	0.71	0.66	8	0.43	0.048
069448	Soil	1.70	35.29	34.56	74.0	124	41.3	18.3	286	3.14	5.9	1.6	1.5	13.4	110.7	0.10	0.70	0.28	6	3.33	0.045
069449	Soil	0.87	60.20	42.62	94.5	201	42.2	23.1	520	3.87	17.6	2.2	4.3	15.7	48.9	0.08	0.89	0.43	10	1.09	0.066
069450	Soil	0.51	67.68	41.45	102.2	125	50.5	35.9	686	4.22	18.1	2.9	3.9	18.1	29.9	0.08	1.16	0.45	11	0.28	0.051
069361	Soil	0.42	46.11	54.06	104.5	144	37.6	19.6	768	4.26	112.6	2.1	9.6	15.0	23.9	0.06	0.70	0.54	11	0.24	0.060
069362	Soil	0.36	40.72	41.20	99.1	118	39.8	16.1	671	4.29	31.0	7.9	7.3	13.3	51.4	0.11	0.94	0.58	14	0.34	0.061
069363	Soil	0.32	41.78	43.11	106.4	114	39.2	20.4	703	4.21	9.7	1.5	3.3	18.6	34.8	0.10	0.84	0.43	10	0.34	0.062
069364	Soil	0.22	29.91	23.68	97.6	67	35.4	7.9	196	3.86	66.9	1.6	7.2	13.3	24.0	0.02	2.08	0.46	10	0.23	0.044
069365	Soil	0.38	29.92	28.77	83.2	43	36.4	14.0	400	3.95	9.6	1.4	1.1	12.7	13.3	0.01	0.55	0.50	13	0.10	0.045
069366	Soil	0.30	45.27	45.07	101.9	70	41.9	27.5	1526	4.83	5.7	1.4	0.3	21.9	17.5	0.10	0.70	0.47	11	0.19	0.052
069367	Soil	0.39	38.99	40.81	102.1	101	39.2	18.0	566	4.06	19.5	2.6	3.2	15.1	32.2	0.04	3.16	0.46	10	0.25	0.061
069368	Soil	0.36	20.60	20.30	64.3	48	18.4	7.5	352	2.79	9.5	0.9	<0.2	5.8	4.0	0.02	0.49	0.39	10	0.02	0.057
069369	Soil	0.17	32.80	34.52	74.5	77	29.2	16.5	579	2.68	5.3	1.0	0.9	7.8	10.8	0.04	0.35	0.28	11	0.11	0.055
069370	Soil	0.21	18.05	13.27	46.9	29	15.6	6.3	334	2.09	2.2	0.8	0.8	2.8	7.8	0.03	0.13	0.20	12	0.08	0.054



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Vancouver British Columbia V6C 3B6 Canada

**Project:** NA-16176  
**Report Date:** September 17, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000235.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
069431	Soil	14.2	27.3	0.85	27.5	<0.001	2	1.98	0.002	0.04	<0.1	1.8	0.03	<0.02	14	0.2	0.06	4.9	0.99	<0.1	0.11
069432	Soil	15.4	12.8	0.56	44.9	<0.001	3	1.58	0.003	0.06	<0.1	2.0	0.03	0.04	33	0.3	0.05	2.5	0.66	<0.1	0.14
069433	Soil	22.9	18.0	0.58	31.2	<0.001	2	1.71	0.002	0.05	<0.1	1.6	0.03	<0.02	33	<0.1	0.04	3.4	0.79	<0.1	0.08
069434	Soil	16.6	30.1	0.85	31.5	0.001	2	2.06	0.003	0.04	<0.1	2.3	0.03	<0.02	23	<0.1	0.07	5.1	0.68	<0.1	0.09
069435	Soil	17.5	29.5	0.84	30.0	<0.001	2	2.07	0.002	0.03	<0.1	2.1	0.04	<0.02	21	0.1	0.09	5.5	0.90	<0.1	0.15
069436	Soil	22.2	27.9	0.81	24.3	<0.001	<1	1.88	0.002	0.03	<0.1	2.0	0.02	<0.02	32	<0.1	0.08	5.0	0.57	<0.1	0.09
069437	Soil	17.0	25.4	0.75	26.9	<0.001	<1	1.81	0.002	0.03	<0.1	2.0	0.03	<0.02	34	0.4	0.08	4.6	0.56	<0.1	0.17
069438	Soil	14.9	29.7	0.82	22.4	0.001	1	1.91	0.002	0.03	<0.1	2.2	<0.02	<0.02	41	<0.1	0.09	4.6	0.45	<0.1	0.15
069439	Soil	14.1	34.3	0.82	30.8	0.002	<1	1.78	0.003	0.04	<0.1	2.2	0.03	0.03	36	0.2	0.11	4.5	0.50	<0.1	0.16
069440	Soil	18.8	33.5	0.83	43.7	0.001	<1	1.88	0.002	0.03	<0.1	2.8	0.02	<0.02	32	0.2	0.09	4.8	0.55	<0.1	0.12
069441	Soil	16.1	39.4	0.92	29.6	0.003	<1	1.73	0.003	0.04	<0.1	3.0	0.03	0.04	40	0.1	0.04	4.5	0.46	<0.1	0.13
069442	Soil	16.8	44.6	0.98	26.1	0.003	<1	1.78	0.003	0.04	<0.1	2.7	<0.02	0.03	28	0.7	0.05	4.8	0.45	<0.1	0.13
069443	Soil	16.9	45.1	0.99	26.7	0.002	<1	1.86	0.003	0.04	<0.1	3.1	0.02	0.02	25	<0.1	0.06	4.8	0.53	<0.1	0.18
069444	Soil	17.5	45.5	1.05	27.9	0.003	<1	1.92	0.003	0.04	<0.1	2.7	0.03	0.03	28	0.1	0.08	5.1	0.64	<0.1	0.16
069445	Soil	16.9	39.4	0.92	34.7	0.002	<1	1.84	0.003	0.03	<0.1	3.0	<0.02	0.02	27	0.1	0.14	4.7	0.45	<0.1	0.18
069446	Soil	15.3	16.8	0.49	25.3	0.001	<1	1.10	0.004	0.04	<0.1	4.6	0.03	0.08	110	0.3	0.13	2.6	0.54	<0.1	0.11
069447	Soil	13.0	19.6	0.59	21.5	0.001	2	1.26	0.002	0.04	<0.1	3.5	0.02	0.05	53	0.2	0.08	3.0	0.37	<0.1	0.09
069448	Soil	17.9	13.7	0.51	49.1	0.002	<1	1.21	0.006	0.04	<0.1	2.8	0.07	0.03	71	0.1	0.05	2.1	0.87	<0.1	0.23
069449	Soil	18.3	21.0	0.70	37.7	<0.001	<1	1.77	0.003	0.05	<0.1	3.0	0.05	0.03	33	<0.1	0.06	4.1	1.07	<0.1	0.08
069450	Soil	8.8	27.3	0.82	27.8	<0.001	<1	1.93	0.004	0.04	<0.1	2.3	0.04	0.04	5	0.5	0.04	4.2	0.70	<0.1	0.14
069361	Soil	19.0	22.8	0.63	44.2	0.002	<1	1.93	0.004	0.04	<0.1	3.6	0.03	<0.02	14	<0.1	0.04	4.7	0.89	<0.1	0.15
069362	Soil	13.6	25.9	0.69	47.2	0.003	<1	2.07	0.004	0.04	<0.1	3.4	0.04	0.03	10	<0.1	0.05	5.5	0.98	<0.1	0.05
069363	Soil	21.2	21.7	0.71	27.2	0.002	<1	1.81	0.002	0.03	<0.1	3.6	0.04	<0.02	20	0.1	0.02	4.1	0.58	<0.1	0.15
069364	Soil	43.6	21.1	0.59	40.9	0.001	<1	1.73	0.003	0.03	<0.1	3.8	0.04	<0.02	32	<0.1	<0.02	4.2	0.86	<0.1	0.10
069365	Soil	22.3	24.3	0.73	36.6	0.002	<1	1.96	0.002	0.03	<0.1	2.8	0.05	<0.02	19	0.2	0.08	5.1	0.78	<0.1	0.12
069366	Soil	13.9	24.1	0.64	21.3	0.001	<1	1.86	0.002	0.03	<0.1	3.5	0.03	<0.02	27	<0.1	0.05	4.2	0.49	<0.1	<0.02
069367	Soil	26.3	19.9	0.67	26.4	0.002	<1	1.64	0.003	0.03	<0.1	2.9	0.03	<0.02	14	<0.1	<0.02	4.2	0.59	<0.1	0.03
069368	Soil	12.3	16.0	0.61	15.3	0.004	<1	1.44	0.009	0.02	<0.1	1.3	0.04	0.02	12	<0.1	0.02	4.5	0.78	<0.1	0.03
069369	Soil	29.8	17.5	0.45	30.9	0.005	<1	1.50	0.015	0.04	<0.1	2.1	0.02	<0.02	16	<0.1	<0.02	4.2	0.80	<0.1	0.03
069370	Soil	15.1	14.1	0.35	31.4	0.006	<1	1.23	0.016	0.03	<0.1	0.9	0.04	0.03	17	0.4	0.06	3.5	0.89	<0.1	0.05



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
069431	Soil	<0.02	2.4	5.5	<0.05	6.8	7.10	27.6	<0.02	<1	0.4	67.8	<10	5
069432	Soil	0.04	4.1	1.6	<0.05	4.8	8.67	31.9	0.03	1	0.3	25.4	10	<2
069433	Soil	<0.02	3.5	7.8	<0.05	3.4	7.08	47.1	<0.02	<1	0.3	30.9	<10	6
069434	Soil	<0.02	2.7	1.6	<0.05	5.7	7.58	30.5	<0.02	1	0.6	72.3	<10	4
069435	Soil	<0.02	3.4	3.1	<0.05	5.3	7.73	31.0	<0.02	1	0.2	74.2	15	6
069436	Soil	0.02	2.6	0.9	<0.05	5.8	7.20	41.4	0.02	<1	0.3	64.7	<10	6
069437	Soil	0.03	2.4	3.2	<0.05	5.3	8.14	30.9	0.06	1	0.4	61.9	10	<2
069438	Soil	0.06	2.3	0.6	<0.05	4.6	6.00	28.2	0.03	<1	0.4	65.5	<10	4
069439	Soil	0.06	3.1	4.5	<0.05	4.9	6.29	27.6	<0.02	2	0.4	49.4	<10	<2
069440	Soil	0.04	2.7	0.7	<0.05	5.5	7.91	34.9	0.03	<1	0.3	57.4	<10	2
069441	Soil	0.07	2.0	2.9	<0.05	6.4	9.90	31.5	<0.02	<1	0.4	48.9	<10	<2
069442	Soil	0.08	2.4	1.0	<0.05	6.2	7.59	31.9	<0.02	3	0.4	52.9	<10	<2
069443	Soil	0.09	2.5	10.5	<0.05	6.8	8.25	32.3	<0.02	<1	0.4	56.0	<10	2
069444	Soil	0.04	2.6	1.4	<0.05	8.3	7.08	33.1	<0.02	<1	0.4	54.9	11	3
069445	Soil	0.08	2.8	1.2	<0.05	5.1	8.40	33.4	0.06	<1	0.2	51.2	<10	3
069446	Soil	<0.02	2.3	2.4	<0.05	13.4	14.81	30.8	0.04	<1	0.4	32.7	<10	3
069447	Soil	<0.02	2.0	9.1	<0.05	6.9	10.69	28.1	0.02	<1	0.6	39.9	<10	3
069448	Soil	0.04	2.6	3.7	<0.05	16.6	9.50	37.9	0.04	<1	0.7	30.5	<10	5
069449	Soil	<0.02	3.0	3.7	<0.05	6.8	7.74	36.5	<0.02	<1	0.9	49.5	<10	<2
069450	Soil	<0.02	2.1	1.7	<0.05	10.0	7.37	16.7	<0.02	<1	0.5	65.0	<10	<2
069361	Soil	0.05	4.2	2.7	<0.05	4.9	12.73	39.0	0.05	<1	0.8	50.5	15	<2
069362	Soil	0.09	4.9	0.8	<0.05	3.6	10.08	27.3	0.03	<1	0.8	65.6	<10	<2
069363	Soil	0.03	2.5	5.0	<0.05	6.7	12.01	41.0	0.02	<1	0.8	53.9	<10	<2
069364	Soil	0.04	4.3	0.8	<0.05	3.3	12.25	78.6	0.05	<1	0.4	46.8	<10	<2
069365	Soil	0.11	5.1	3.9	<0.05	2.9	7.06	43.1	<0.02	<1	0.3	58.2	<10	<2
069366	Soil	0.04	2.6	0.5	<0.05	4.0	10.54	30.7	<0.02	<1	0.3	46.8	<10	2
069367	Soil	0.02	2.5	4.4	<0.05	3.8	10.15	49.5	<0.02	<1	0.6	54.4	<10	<2
069368	Soil	0.07	3.9	0.1	<0.05	1.8	3.00	22.8	0.03	<1	0.2	40.4	<10	<2
069369	Soil	0.15	3.7	1.7	<0.05	2.6	10.42	57.2	0.02	<1	0.5	30.5	<10	4
069370	Soil	0.12	5.0	0.3	<0.05	1.2	3.44	26.7	<0.02	<1	<0.1	23.9	<10	<2



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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
069381	Soil	0.33	51.08	41.90	105.0	79	40.7	25.8	881	4.48	6.4	1.3	1.2	18.9	24.9	0.09	0.43	0.50	12	0.30	0.079	
069382	Soil	0.26	48.48	37.75	111.2	95	42.9	21.2	856	4.62	6.5	1.7	1.9	17.5	20.9	0.11	0.34	0.50	12	0.25	0.083	
069383	Soil	0.43	55.08	47.18	116.1	132	43.8	26.0	1077	4.87	6.7	2.0	2.4	19.0	22.1	0.12	0.41	0.61	13	0.27	0.080	
069384	Soil	0.42	46.63	38.31	114.9	94	41.9	22.3	847	4.45	9.4	1.4	1.4	19.2	25.1	0.11	0.61	0.50	11	0.30	0.083	
069385	Soil	0.57	42.98	40.24	110.3	114	43.2	18.6	506	4.16	7.6	1.4	2.6	17.5	57.9	0.13	0.67	0.45	9	0.89	0.060	
069386	Soil	0.18	24.58	26.53	68.6	74	24.7	11.0	349	2.76	3.8	1.4	1.5	5.9	45.7	0.12	0.29	0.31	10	0.68	0.085	
069387	Soil	0.16	36.15	37.05	98.2	63	36.3	17.3	410	3.79	10.8	1.5	0.9	15.1	30.9	0.11	1.45	0.41	10	0.34	0.060	
069388	Soil	0.50	39.31	47.96	96.2	122	41.7	20.9	769	4.23	8.0	2.2	1.0	13.7	22.6	0.09	0.68	0.45	10	0.25	0.044	
069389	Soil	0.36	27.94	24.73	83.7	75	31.7	12.3	330	3.19	5.0	1.6	1.1	7.4	34.2	0.09	1.10	0.34	11	0.38	0.067	
069390	Soil	0.26	25.57	22.67	81.3	44	28.3	10.4	230	3.10	5.2	1.5	0.9	6.9	28.3	0.10	1.06	0.32	11	0.30	0.060	
070211	Soil	1.42	48.41	78.61	182.0	90	39.6	25.5	998	3.99	28.2	1.4	2.2	26.2	85.2	0.13	1.37	0.49	11	0.98	0.142	
070212	Soil	0.43	61.21	83.64	116.3	113	42.4	45.4	1180	4.23	17.7	1.4	3.4	28.2	25.5	0.08	1.13	0.69	11	0.28	0.035	
070213	Soil	1.14	94.41	129.52	145.8	146	62.0	89.9	2094	4.54	28.5	3.0	4.7	43.4	25.4	0.20	1.67	1.30	11	0.23	0.020	
070214	Soil	0.55	43.19	65.56	95.4	89	36.7	31.9	989	3.86	12.4	1.3	2.2	24.1	20.8	0.14	0.93	0.60	9	0.23	0.041	
070215	Soil	0.47	46.84	58.09	102.3	122	39.7	27.3	687	3.73	12.8	1.5	2.6	21.7	32.0	0.04	1.10	0.67	8	0.54	0.047	
070216	Soil	0.55	44.37	54.33	99.2	124	35.9	21.7	509	3.64	10.6	1.3	2.1	13.8	34.2	0.09	0.83	0.60	9	0.58	0.046	
070217	Soil	0.54	53.99	69.32	105.4	106	40.2	36.3	1011	3.81	16.2	1.3	2.6	22.0	30.6	0.10	0.97	0.72	11	0.43	0.033	
070218	Soil	0.42	37.89	45.74	95.3	98	30.2	13.2	371	3.10	8.1	1.1	3.5	8.7	50.7	0.06	0.54	0.55	8	1.02	0.060	
070219	Soil	0.39	75.91	68.20	117.6	115	47.3	37.3	812	4.20	15.3	1.9	0.7	26.6	26.0	0.02	0.70	0.84	11	0.30	0.038	
070220	Soil	0.58	77.05	54.12	100.9	117	47.3	37.1	966	4.12	18.2	1.7	3.4	20.0	22.9	0.12	0.98	0.74	13	0.27	0.044	
070221	Soil	0.39	52.26	52.17	99.7	97	39.3	22.3	637	3.66	15.1	1.6	0.8	14.9	28.5	0.10	0.66	0.63	10	0.53	0.048	
070222	Soil	0.48	54.96	45.74	90.0	109	35.8	18.4	486	3.71	12.6	1.3	2.2	13.1	29.9	0.04	0.62	0.59	10	0.48	0.044	
070223	Soil	0.41	48.37	43.76	92.4	104	42.5	19.3	545	3.81	14.6	1.4	3.8	11.4	45.1	0.10	0.75	0.56	11	1.16	0.052	
070224	Soil	0.35	57.66	43.67	98.4	114	45.4	23.6	716	3.89	16.6	1.3	4.6	14.6	30.5	0.17	0.62	0.56	21	0.61	0.051	
070225	Soil	0.35	40.69	35.34	89.1	108	37.2	13.6	278	3.52	11.0	1.2	1.9	11.9	34.3	0.06	0.55	0.47	11	0.74	0.050	
070226	Soil	0.38	51.25	45.36	99.8	105	42.6	21.0	442	3.92	18.8	1.4	1.1	14.8	36.0	0.11	0.70	0.49	11	0.46	0.046	
070227	Soil	0.30	29.88	29.49	88.1	57	35.5	12.5	303	3.58	10.8	1.2	1.8	10.3	17.9	0.07	0.37	0.40	11	0.28	0.048	
070228	Soil	0.29	29.03	26.34	92.9	61	28.7	12.2	324	2.97	10.5	1.2	1.7	7.9	19.8	0.05	0.48	0.38	10	0.24	0.049	
070229	Soil	0.50	33.90	31.87	93.6	83	34.3	14.6	430	3.25	9.3	1.3	2.0	10.6	32.0	0.15	0.42	0.45	10	0.51	0.057	
070230	Soil	0.50	23.22	23.93	72.5	68	23.8	13.2	378	2.71	9.4	1.0	1.3	3.8	13.5	0.07	0.38	0.30	11	0.20	0.065	



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
069381	Soil	23.8	24.7	0.80	28.4	0.003	<1	2.03	0.002	0.04	<0.1	3.2	0.03	<0.02	<5	<0.1	<0.02	5.6	0.81	<0.1	0.14
069382	Soil	20.1	27.1	0.82	22.1	0.003	<1	2.08	0.003	0.03	<0.1	3.2	0.03	<0.02	23	<0.1	0.03	5.2	0.61	<0.1	0.19
069383	Soil	23.2	27.1	0.82	29.8	0.003	<1	2.18	0.003	0.03	<0.1	4.1	0.03	<0.02	13	<0.1	0.05	5.5	0.76	<0.1	0.10
069384	Soil	18.6	25.7	0.80	27.5	0.002	<1	2.03	0.002	0.03	<0.1	3.1	0.03	<0.02	18	<0.1	0.05	5.3	0.55	<0.1	0.17
069385	Soil	38.1	20.5	0.68	24.3	0.002	<1	1.56	0.002	0.03	<0.1	3.8	0.03	<0.02	37	<0.1	0.04	3.9	0.40	0.1	0.17
069386	Soil	31.1	14.2	0.42	38.4	0.006	<1	1.36	0.020	0.03	<0.1	3.5	0.03	0.04	26	0.5	<0.02	3.7	0.51	<0.1	0.11
069387	Soil	27.6	22.0	0.67	41.9	0.002	<1	1.85	0.004	0.03	<0.1	3.3	0.02	<0.02	17	<0.1	0.06	5.0	0.90	<0.1	0.22
069388	Soil	43.6	23.8	0.68	32.2	0.002	<1	1.85	0.002	0.02	<0.1	5.3	0.04	<0.02	32	<0.1	0.09	4.6	0.77	<0.1	0.08
069389	Soil	34.0	21.3	0.60	38.3	0.002	1	1.75	0.005	0.02	<0.1	2.9	0.05	0.03	29	0.2	0.05	4.5	1.04	<0.1	0.12
069390	Soil	33.9	20.1	0.58	37.3	0.002	<1	1.69	0.006	0.02	<0.1	2.6	0.04	0.03	15	<0.1	0.04	4.1	1.11	<0.1	0.13
070211	Soil	15.8	22.7	0.70	20.8	0.001	<1	1.95	0.002	0.04	<0.1	2.7	0.03	<0.02	16	<0.1	0.07	4.7	1.65	<0.1	0.09
070212	Soil	12.9	23.4	0.74	37.7	0.001	<1	1.68	0.002	0.03	<0.1	2.4	0.04	0.04	35	<0.1	0.04	4.9	0.97	<0.1	0.18
070213	Soil	10.1	24.3	0.77	67.7	<0.001	3	1.87	0.002	0.04	<0.1	2.4	0.11	<0.02	9	0.3	0.16	4.5	2.00	<0.1	0.40
070214	Soil	16.1	20.5	0.66	33.7	0.002	2	1.55	0.002	0.04	<0.1	2.3	0.04	<0.02	39	<0.1	0.10	4.4	0.67	<0.1	0.16
070215	Soil	18.8	18.3	0.63	24.0	0.001	2	1.40	0.003	0.03	<0.1	1.9	0.06	<0.02	26	<0.1	0.07	3.8	0.62	<0.1	0.21
070216	Soil	23.1	18.7	0.59	29.9	<0.001	<1	1.44	0.002	0.03	<0.1	2.7	0.05	0.03	25	<0.1	0.10	3.7	0.52	<0.1	0.20
070217	Soil	16.3	23.9	0.73	38.5	<0.001	<1	1.78	0.002	0.03	<0.1	2.2	0.04	<0.02	17	<0.1	0.08	5.1	0.89	<0.1	0.27
070218	Soil	22.2	17.1	0.54	26.7	0.002	5	1.32	0.002	0.04	<0.1	2.2	0.04	0.06	33	<0.1	0.08	3.3	0.75	<0.1	0.17
070219	Soil	16.0	26.7	0.84	31.3	<0.001	1	1.99	0.002	0.03	<0.1	2.0	0.03	<0.02	22	0.3	0.09	5.3	1.04	<0.1	0.18
070220	Soil	13.9	29.6	0.89	27.6	0.002	1	2.00	0.002	0.03	<0.1	1.8	0.03	<0.02	21	<0.1	0.07	4.8	0.89	<0.1	0.17
070221	Soil	16.0	23.2	0.70	23.6	0.001	<1	1.68	0.002	0.03	<0.1	1.7	0.03	0.03	34	<0.1	0.07	4.3	0.42	<0.1	0.20
070222	Soil	15.6	21.4	0.68	29.0	0.001	2	1.74	0.003	0.03	<0.1	2.2	0.03	0.02	20	0.4	0.06	4.8	0.49	<0.1	0.13
070223	Soil	16.3	23.4	0.67	22.1	0.002	2	1.56	0.002	0.03	<0.1	2.2	0.02	<0.02	11	0.3	0.08	3.9	0.47	<0.1	0.11
070224	Soil	15.4	42.8	1.04	27.3	0.002	2	1.95	0.002	0.03	<0.1	3.5	0.03	<0.02	11	<0.1	0.07	5.2	1.05	<0.1	0.15
070225	Soil	13.9	23.9	0.66	20.4	<0.001	3	1.59	0.002	0.03	<0.1	2.4	0.03	0.03	15	0.4	0.10	4.3	0.41	<0.1	0.16
070226	Soil	17.7	24.9	0.72	26.8	0.002	3	1.82	0.002	0.04	<0.1	2.4	<0.02	0.03	43	0.4	0.04	4.3	0.53	<0.1	0.17
070227	Soil	15.9	24.0	0.68	24.7	0.001	2	1.69	0.002	0.03	<0.1	2.1	0.02	0.02	17	0.2	0.05	4.3	0.36	<0.1	0.13
070228	Soil	13.3	18.9	0.54	48.2	0.002	1	1.66	0.007	0.02	<0.1	1.5	0.03	0.02	<5	<0.1	<0.02	4.3	0.52	0.1	0.14
070229	Soil	14.3	23.7	0.62	24.5	0.001	<1	1.53	0.002	0.05	<0.1	2.0	0.02	0.05	30	0.4	0.03	3.7	0.36	<0.1	0.18
070230	Soil	10.4	21.5	0.51	26.9	0.004	2	1.39	0.007	0.03	<0.1	1.3	0.02	0.05	9	<0.1	0.05	3.8	0.43	<0.1	0.12



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Method Analyte Unit MDL	AQ251 Nb	AQ251 Rb	AQ251 Sn	AQ251 Ta	AQ251 Zr	AQ251 Y	AQ251 Ce	AQ251 In	AQ251 Re	AQ251 Be	AQ251 Li	AQ251 Pd	AQ251 Pt													
														ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
														0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
069381	Soil	<0.02	2.7	0.2	<0.05	11.9	11.15	50.0	0.02	<1	1.1	65.7	<10	3												
069382	Soil	0.03	2.4	0.6	<0.05	8.4	10.04	41.5	0.03	<1	0.3	70.2	<10	<2												
069383	Soil	0.05	3.2	0.6	<0.05	6.1	13.23	49.3	0.03	<1	1.3	69.1	<10	<2												
069384	Soil	<0.02	2.4	0.8	<0.05	9.3	9.71	38.3	0.02	<1	0.7	64.4	<10	<2												
069385	Soil	0.02	2.0	0.2	<0.05	10.3	14.61	72.5	0.03	<1	1.0	52.8	<10	<2												
069386	Soil	0.20	3.2	0.3	<0.05	3.9	15.75	58.0	<0.02	<1	0.8	31.1	<10	<2												
069387	Soil	0.05	3.2	0.5	<0.05	7.1	11.98	51.8	<0.02	<1	0.7	50.6	<10	<2												
069388	Soil	0.08	2.9	0.3	<0.05	4.1	18.51	88.8	<0.02	<1	1.0	53.7	<10	<2												
069389	Soil	0.09	4.1	0.2	<0.05	4.6	11.61	64.7	0.02	<1	0.8	54.2	<10	<2												
069390	Soil	0.12	4.4	0.4	<0.05	3.9	10.47	63.8	<0.02	<1	0.5	51.4	<10	3												
070211	Soil	<0.02	3.1	0.4	<0.05	8.8	10.23	30.3	<0.02	<1	1.1	51.1	<10	4												
070212	Soil	<0.02	2.3	0.9	<0.05	12.9	9.03	24.7	<0.02	<1	0.7	55.7	<10	3												
070213	Soil	<0.02	3.0	0.7	<0.05	23.8	10.32	19.8	0.05	<1	0.9	63.7	<10	<2												
070214	Soil	0.02	2.1	0.7	<0.05	14.1	9.39	31.1	<0.02	<1	0.4	50.4	<10	<2												
070215	Soil	<0.02	1.8	0.3	<0.05	11.9	9.34	36.6	0.02	<1	0.3	50.6	<10	<2												
070216	Soil	0.02	2.5	0.4	<0.05	7.7	13.05	42.5	0.03	<1	1.3	46.6	11	<2												
070217	Soil	0.03	2.6	0.6	<0.05	9.7	10.09	29.5	<0.02	<1	0.6	59.9	<10	<2												
070218	Soil	0.06	3.1	0.3	<0.05	5.7	10.70	39.6	<0.02	<1	1.4	41.0	<10	<2												
070219	Soil	<0.02	2.6	1.0	<0.05	6.8	8.14	30.2	<0.02	<1	1.0	79.0	<10	<2												
070220	Soil	0.02	2.1	0.5	<0.05	8.5	6.60	26.5	<0.02	<1	0.6	71.6	16	<2												
070221	Soil	0.04	2.3	0.2	<0.05	6.5	7.80	31.3	<0.02	<1	0.4	56.3	20	<2												
070222	Soil	0.06	2.6	0.4	<0.05	5.6	9.59	27.8	0.03	<1	0.3	53.7	<10	<2												
070223	Soil	0.03	2.0	0.4	<0.05	4.3	8.21	31.1	<0.02	<1	0.4	47.4	13	<2												
070224	Soil	0.06	2.5	1.2	<0.05	5.0	8.06	29.5	<0.02	<1	0.7	54.4	<10	<2												
070225	Soil	0.04	1.9	0.4	<0.05	6.9	8.95	25.8	0.03	<1	0.5	46.2	<10	<2												
070226	Soil	0.11	3.1	0.5	<0.05	5.4	7.19	33.8	0.02	<1	0.4	53.0	<10	3												
070227	Soil	0.06	2.6	0.2	<0.05	4.3	7.28	29.4	<0.02	<1	0.7	50.0	<10	<2												
070228	Soil	0.15	2.9	0.4	<0.05	4.2	5.70	26.0	<0.02	<1	0.5	39.8	<10	<2												
070229	Soil	0.09	4.0	0.4	<0.05	6.7	7.57	28.2	<0.02	<1	0.6	45.6	<10	2												
070230	Soil	0.18	2.9	1.1	<0.05	2.4	4.86	21.0	<0.02	<1	0.6	36.1	<10	<2												



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**Project:** NA-16176  
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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
072801	Soil	0.74	93.85	50.41	116.7	142	55.3	29.4	1291	5.09	27.2	2.9	3.8	9.8	9.3	0.10	1.22	0.59	15	0.36	0.056
072802	Soil	0.91	83.80	54.26	111.8	99	56.9	36.1	1650	5.33	26.5	3.8	1.5	10.6	6.8	0.09	0.74	0.56	19	0.12	0.069
072803	Soil	1.12	94.49	71.81	111.7	116	62.5	45.1	3106	5.23	42.7	3.6	5.4	7.5	11.4	0.11	1.25	0.61	18	0.12	0.080
072804	Soil	1.14	86.48	50.77	106.3	88	54.2	57.8	3468	5.15	52.4	4.7	3.3	8.7	9.5	0.05	1.76	0.70	16	0.08	0.092
072805	Soil	0.39	70.87	53.82	120.5	72	51.9	26.0	846	4.96	19.2	1.2	1.1	10.1	5.7	0.10	0.60	0.84	16	0.22	0.050
072806	Soil	0.64	60.30	39.19	105.4	101	48.5	21.7	990	4.72	29.3	1.6	5.7	8.1	11.3	0.05	1.04	0.72	14	0.30	0.046
072807	Soil	0.49	65.82	41.93	112.5	86	52.9	27.8	1155	4.86	32.6	1.3	1.7	9.2	9.1	0.08	1.56	0.75	12	0.35	0.049
072808	Soil	0.67	58.95	34.41	103.8	90	46.7	20.3	933	4.43	24.1	1.9	2.4	6.1	12.6	0.12	0.96	0.61	14	0.59	0.059
072809	Soil	0.71	22.20	21.33	74.8	47	27.8	11.9	529	3.71	43.4	0.7	1.2	2.9	3.5	0.24	0.45	0.44	20	0.02	0.054
072810	Soil	0.42	19.19	13.49	32.8	138	14.2	9.1	969	1.39	7.0	0.7	1.8	0.4	10.2	0.10	0.25	0.22	7	0.25	0.063
072901	Soil	0.55	38.95	56.42	92.1	69	32.5	30.0	1142	3.82	13.7	1.2	1.3	8.5	4.7	0.09	0.38	0.53	13	0.03	0.064
072902	Soil	0.43	23.10	29.70	89.3	67	28.7	13.1	747	4.02	3.2	0.9	1.9	3.8	3.7	0.19	0.41	0.47	16	0.03	0.082
072903	Soil	0.48	39.64	25.29	103.4	24	31.6	17.5	795	3.95	1.7	1.1	0.2	9.0	5.3	0.02	0.25	0.95	10	0.04	0.058
072904	Soil	0.60	28.77	35.31	78.4	44	25.5	11.6	546	4.30	4.8	1.4	2.3	4.4	3.5	0.10	0.46	0.46	15	0.02	0.107
072905	Soil	0.36	19.06	19.37	39.6	49	12.0	8.5	344	1.84	2.1	0.9	0.9	1.0	3.9	0.04	0.26	0.24	10	0.02	0.066
072906	Soil	0.42	52.07	25.43	99.8	53	37.5	25.7	1229	4.51	2.8	1.7	0.8	15.7	4.8	0.01	0.27	0.63	10	0.03	0.043
072907	Soil	1.09	24.86	38.80	65.3	97	18.1	8.9	543	3.52	6.4	1.8	1.9	1.6	4.8	0.12	0.57	0.48	18	0.03	0.136
072908	Soil	0.29	45.67	44.84	80.0	84	29.8	24.2	513	3.45	5.7	2.5	2.0	16.7	15.9	0.05	0.43	0.41	11	0.17	0.067
072909	Soil	0.57	32.95	31.26	79.4	75	27.6	12.3	283	4.27	8.7	3.3	0.8	9.6	25.4	0.02	0.98	0.56	12	0.07	0.074
072910	Soil	0.60	12.67	8.48	24.5	31	7.4	3.8	188	1.40	3.7	0.6	<0.2	0.7	6.1	0.07	0.27	0.22	15	0.06	0.062
071041	Soil	0.52	32.64	66.36	105.4	51	24.8	14.3	747	3.87	17.1	3.0	2.3	5.9	3.2	<0.01	0.38	0.56	11	0.01	0.132
071042	Soil	0.70	23.47	27.00	74.2	71	19.1	13.4	1143	4.45	4.6	1.3	1.5	3.2	4.6	0.19	0.45	0.57	24	0.03	0.169
071043	Soil	0.49	35.60	94.28	68.6	68	22.3	11.7	411	2.79	2.7	0.9	1.3	9.8	8.5	0.03	0.15	0.43	17	0.10	0.063
071044	Soil	0.63	59.45	36.32	156.2	177	35.3	22.0	1108	3.30	5.6	2.7	1.0	6.9	19.8	0.42	0.48	0.60	20	0.40	0.104
071045	Soil	0.44	28.93	16.24	93.1	72	34.5	18.5	1276	3.96	3.8	1.7	<0.2	6.9	6.6	0.08	0.33	0.50	15	0.06	0.121
071046	Soil	0.79	67.57	59.71	103.3	55	36.7	20.9	1415	4.24	4.1	2.1	1.7	14.0	9.9	0.06	0.38	0.70	15	0.08	0.050
071047	Soil	0.11	14.50	6.18	78.5	16	37.7	20.4	1261	5.39	12.7	4.8	2.6	16.3	8.5	0.01	0.40	0.28	7	0.09	0.036
071048	Soil	0.11	12.97	6.19	78.2	16	36.9	21.4	1244	5.32	10.9	4.7	1.8	16.8	8.6	0.03	0.39	0.23	7	0.09	0.033
071049	Soil	0.68	29.17	34.50	89.4	28	31.8	19.1	1020	4.56	25.8	2.0	0.7	8.2	7.3	0.06	0.51	0.63	16	0.02	0.070
071050	Soil	0.28	40.99	28.83	100.1	103	33.0	15.3	520	3.94	255.7	1.4	31.8	6.2	9.8	0.04	0.69	0.42	7	0.09	0.039



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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
072801	Soil	17.1	33.6	1.04	16.0	<0.001	<1	2.34	0.004	0.03	<0.1	4.0	0.03	0.04	<5	0.4	0.06	6.5	2.46	<0.1	0.13
072802	Soil	23.8	42.0	1.30	14.0	0.002	1	2.89	0.006	0.03	<0.1	3.1	0.02	<0.02	29	<0.1	0.09	7.5	2.74	<0.1	0.13
072803	Soil	22.7	37.7	1.36	18.7	0.002	2	2.75	0.004	0.03	<0.1	3.1	0.05	<0.02	72	<0.1	0.13	6.9	1.95	<0.1	0.10
072804	Soil	17.6	32.2	1.20	17.2	0.002	<1	2.45	0.004	0.03	<0.1	3.0	0.05	0.03	23	<0.1	0.14	6.3	2.24	<0.1	0.08
072805	Soil	17.5	37.8	1.12	14.1	0.001	2	2.59	0.003	0.03	<0.1	3.2	0.02	<0.02	15	0.2	0.17	7.1	2.22	<0.1	0.17
072806	Soil	13.8	30.1	0.94	18.1	<0.001	<1	2.22	0.003	0.03	<0.1	3.1	<0.02	0.02	30	<0.1	0.19	5.8	1.51	<0.1	0.09
072807	Soil	16.2	27.2	0.90	18.2	0.001	<1	2.04	0.004	0.03	<0.1	3.8	0.03	<0.02	11	0.2	0.08	5.7	1.21	<0.1	0.11
072808	Soil	12.6	29.7	0.89	20.0	0.001	<1	2.14	0.005	0.03	<0.1	3.1	0.02	0.04	13	0.4	0.14	5.6	1.24	<0.1	0.22
072809	Soil	22.3	22.6	0.56	21.9	0.006	<1	1.51	0.003	0.04	0.1	1.0	0.03	<0.02	23	<0.1	0.07	5.8	1.06	<0.1	0.03
072810	Soil	4.3	8.9	0.25	29.4	0.005	<1	0.81	0.021	0.02	<0.1	0.5	0.03	0.05	17	0.2	<0.02	2.6	0.75	<0.1	<0.02
072901	Soil	32.8	26.3	0.72	46.6	0.002	1	2.07	0.005	0.03	<0.1	1.3	0.03	0.03	<5	0.3	0.03	5.8	2.99	<0.1	0.23
072902	Soil	24.4	26.7	0.65	25.4	0.006	1	1.87	0.003	0.03	<0.1	0.9	0.04	0.06	33	<0.1	0.07	6.5	1.25	<0.1	0.08
072903	Soil	23.1	23.8	0.80	30.5	0.001	<1	2.03	0.003	0.03	<0.1	1.5	0.02	0.03	<5	<0.1	<0.02	5.9	1.26	0.1	0.16
072904	Soil	17.1	25.0	0.58	22.6	0.005	1	2.05	0.002	0.03	<0.1	1.1	0.05	0.05	47	<0.1	0.05	6.2	0.96	<0.1	0.15
072905	Soil	10.7	9.3	0.24	21.2	0.005	<1	0.94	0.014	0.02	<0.1	0.4	0.04	0.05	34	<0.1	0.02	2.8	0.65	<0.1	0.08
072906	Soil	22.3	21.2	0.76	35.4	0.003	<1	2.08	0.002	0.04	<0.1	2.1	0.03	<0.02	<5	<0.1	0.02	5.1	0.79	<0.1	0.04
072907	Soil	7.8	19.3	0.35	33.1	0.006	3	1.63	0.004	0.04	0.1	0.6	0.07	0.13	96	0.4	0.03	4.9	0.95	0.1	0.02
072908	Soil	9.5	17.6	0.62	24.6	0.003	<1	1.69	0.007	0.04	<0.1	1.4	0.04	<0.02	11	<0.1	<0.02	4.1	1.32	<0.1	0.04
072909	Soil	10.0	20.4	0.58	22.6	0.002	<1	1.74	0.005	0.04	<0.1	1.2	0.05	0.04	7	<0.1	0.05	4.4	1.36	<0.1	0.06
072910	Soil	7.8	7.9	0.13	19.9	0.010	2	0.87	0.015	0.03	<0.1	0.4	0.05	0.04	10	0.5	<0.02	2.7	0.65	<0.1	<0.02
071041	Soil	12.4	16.3	0.45	24.6	0.003	2	1.45	0.002	0.04	<0.1	1.0	0.06	0.06	13	0.6	<0.02	4.3	1.52	<0.1	0.15
071042	Soil	17.3	26.0	0.51	34.4	0.007	1	2.08	0.003	0.04	<0.1	0.9	0.08	0.07	30	0.5	0.05	7.4	1.35	<0.1	0.12
071043	Soil	33.9	17.5	0.62	16.5	0.012	<1	1.50	0.014	0.04	<0.1	1.4	0.03	<0.02	11	<0.1	0.07	4.5	1.00	<0.1	0.09
071044	Soil	21.9	27.2	0.79	63.1	0.009	1	1.92	0.009	0.08	0.1	2.8	0.07	0.07	20	0.5	0.04	5.7	2.21	<0.1	<0.02
071045	Soil	30.6	25.4	0.72	54.7	0.008	2	1.85	0.004	0.05	<0.1	1.6	0.04	0.06	85	0.3	<0.02	4.6	3.87	0.1	0.13
071046	Soil	27.5	28.0	0.89	68.9	0.002	1	2.20	0.008	0.04	<0.1	2.2	0.04	0.02	72	<0.1	0.09	6.3	2.30	0.1	0.08
071047	Soil	40.7	10.3	0.34	42.2	0.002	3	1.06	0.004	0.04	<0.1	3.4	0.03	<0.02	<5	<0.1	0.04	2.5	1.80	<0.1	0.07
071048	Soil	37.1	10.6	0.34	42.3	<0.001	<1	1.08	0.004	0.04	<0.1	3.1	0.03	<0.02	13	<0.1	0.04	2.6	1.68	<0.1	0.05
071049	Soil	28.3	24.3	0.69	34.6	0.004	1	2.00	0.003	0.03	<0.1	2.3	0.04	0.05	24	0.3	<0.02	6.4	2.12	<0.1	0.15
071050	Soil	21.6	16.7	0.50	21.7	<0.001	<1	1.38	0.005	0.04	<0.1	2.4	0.02	<0.02	7	<0.1	0.02	3.4	2.27	<0.1	0.07



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**Project:** NA-16176  
**Report Date:** September 17, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000235.1

Method Analyte Unit MDL	AQ251 Nb	AQ251 Rb	AQ251 Sn	AQ251 Ta	AQ251 Zr	AQ251 Y	AQ251 Ce	AQ251 In	AQ251 Re	AQ251 Be	AQ251 Li	AQ251 Pd	AQ251 Pt													
														ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	
														0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
072801	Soil	<0.02	2.2	0.2	<0.05	7.4	8.53	30.0	0.03	<1	0.2	75.3	<10	<2												
072802	Soil	0.04	2.0	0.6	<0.05	4.8	5.88	42.1	0.04	<1	0.8	91.4	<10	<2												
072803	Soil	0.02	2.4	0.5	<0.05	3.3	11.85	41.0	<0.02	<1	0.3	92.0	<10	<2												
072804	Soil	0.03	2.3	0.3	<0.05	2.7	8.41	31.8	<0.02	<1	0.3	84.2	<10	<2												
072805	Soil	<0.02	1.9	0.2	<0.05	8.3	4.30	28.4	<0.02	<1	0.5	76.7	<10	<2												
072806	Soil	0.03	1.7	0.3	<0.05	4.5	4.96	22.9	0.05	<1	0.3	69.9	<10	<2												
072807	Soil	<0.02	1.5	0.2	<0.05	5.4	6.62	28.9	0.03	<1	0.5	62.5	<10	<2												
072808	Soil	0.07	2.2	0.2	<0.05	8.1	6.69	22.1	0.05	<1	0.1	66.1	<10	<2												
072809	Soil	0.36	6.1	0.3	<0.05	0.7	1.66	41.4	0.02	<1	0.4	42.1	<10	<2												
072810	Soil	0.20	2.4	0.2	<0.05	1.1	1.89	8.2	<0.02	1	0.3	16.3	<10	<2												
072901	Soil	0.14	3.8	0.4	<0.05	6.7	4.95	60.7	0.02	<1	0.5	57.4	<10	9												
072902	Soil	0.33	4.9	0.3	<0.05	2.4	3.46	45.6	<0.02	<1	0.1	48.4	<10	<2												
072903	Soil	0.06	3.6	0.3	<0.05	6.0	4.30	43.2	<0.02	<1	0.7	58.3	<10	<2												
072904	Soil	0.28	4.9	0.4	<0.05	6.0	2.69	29.3	<0.02	<1	0.3	41.1	13	<2												
072905	Soil	0.13	3.1	0.3	<0.05	1.3	1.83	18.9	<0.02	<1	<0.1	15.7	<10	<2												
072906	Soil	0.05	3.4	0.6	<0.05	4.1	7.40	40.2	<0.02	<1	0.8	49.9	<10	<2												
072907	Soil	0.61	5.4	0.5	<0.05	1.3	3.11	15.2	<0.02	<1	0.2	21.3	<10	<2												
072908	Soil	0.04	3.1	0.7	<0.05	4.6	6.12	18.8	<0.02	<1	0.7	40.3	<10	<2												
072909	Soil	0.09	3.8	0.4	<0.05	3.2	4.43	19.7	0.03	6	0.4	35.4	<10	5												
072910	Soil	0.17	3.8	0.8	<0.05	0.6	1.81	15.7	<0.02	3	0.3	5.6	<10	3												
071041	Soil	0.13	7.2	0.2	<0.05	5.8	3.87	22.7	0.04	3	0.4	30.6	<10	<2												
071042	Soil	0.32	7.1	0.5	<0.05	3.9	4.12	31.0	0.02	4	0.3	35.1	<10	<2												
071043	Soil	0.15	3.4	0.3	<0.05	3.7	5.29	64.2	<0.02	<1	<0.1	42.0	<10	<2												
071044	Soil	0.48	7.8	0.4	<0.05	1.4	11.89	42.5	0.05	1	1.4	45.7	<10	<2												
071045	Soil	0.24	6.4	1.2	<0.05	5.2	6.31	62.2	<0.02	9	0.9	49.9	<10	9												
071046	Soil	0.08	4.0	0.3	<0.05	3.4	8.98	54.2	0.03	1	1.1	69.3	<10	<2												
071047	Soil	0.04	2.8	0.3	<0.05	4.1	9.01	78.8	<0.02	1	0.8	20.3	<10	<2												
071048	Soil	0.08	2.8	0.2	<0.05	4.6	8.66	71.9	<0.02	1	0.6	20.5	16	<2												
071049	Soil	0.19	4.8	0.3	<0.05	5.5	7.00	53.5	0.04	1	0.5	50.6	<10	2												
071050	Soil	<0.02	3.7	0.2	<0.05	1.6	6.03	40.1	<0.02	2	0.4	33.3	<10	4												



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Project: NA-16176  
Report Date: September 17, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000235.1

Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
072641	Soil	0.35	62.90	31.16	97.8	159	34.4	18.9	1055	3.50	8.1	1.3	1.8	3.2	18.2	0.28	0.26	0.56	12	0.33	0.074
072642	Soil	0.47	19.77	14.20	102.6	86	22.4	10.4	640	2.30	13.2	0.5	3.0	1.0	16.6	0.55	0.35	0.30	11	0.33	0.080
072643	Soil	0.41	42.05	28.39	88.0	40	30.2	16.1	375	3.11	49.5	1.6	4.2	3.5	6.8	0.07	0.68	0.60	8	0.10	0.046
072644	Soil	1.15	29.16	67.32	116.4	567	37.9	29.3	1866	4.42	704.4	2.7	23.5	4.3	3.9	0.24	0.80	0.33	11	0.01	0.057
072645	Soil	0.60	58.26	33.54	105.0	83	44.5	22.1	1070	4.49	34.3	1.4	3.4	6.2	9.4	0.12	0.74	0.64	15	0.22	0.064
072646	Soil	0.50	58.67	42.80	102.8	101	43.7	23.3	1364	4.76	49.7	1.8	5.3	7.1	8.4	0.14	0.76	0.63	16	0.15	0.055
072647	Soil	0.61	48.80	68.13	101.6	184	38.0	33.7	1670	4.10	367.2	1.4	41.8	5.7	7.2	0.30	0.83	0.65	16	0.15	0.088
072648	Soil	0.61	78.69	43.47	109.2	81	51.2	27.8	1556	5.16	30.5	1.1	1.7	8.2	8.3	0.07	0.84	0.83	16	0.22	0.048
072649	Soil	0.68	70.33	39.99	100.2	106	47.5	26.5	1229	4.64	31.9	2.3	2.5	6.0	10.2	0.11	0.85	0.64	15	0.40	0.064
072650	Soil	0.72	65.14	35.25	92.1	100	45.6	23.3	896	4.22	31.9	1.5	3.0	4.5	25.1	0.11	1.80	0.68	10	1.59	0.062
073651	Soil	0.28	23.10	14.86	57.2	27	22.2	9.6	274	2.64	38.9	0.4	1.4	5.4	14.8	0.09	0.49	0.26	14	0.13	0.031
073652	Soil	0.58	28.56	20.21	71.2	29	26.5	11.3	344	3.52	7.6	1.1	<0.2	3.4	5.9	0.06	0.49	0.45	18	0.05	0.068
073653	Soil	0.41	21.06	32.26	78.7	31	28.3	13.4	423	4.37	12.7	0.8	0.8	11.3	3.2	0.09	0.67	0.57	15	0.03	0.045
073654	Soil	0.35	36.80	37.88	83.1	120	47.1	24.7	791	3.90	37.0	1.8	3.3	14.0	13.3	0.09	2.57	0.36	8	0.32	0.057
073655	Soil	0.48	49.84	53.54	106.9	131	45.4	26.6	773	3.72	10.0	2.8	0.6	7.4	19.4	0.06	0.83	0.37	9	0.29	0.081
073656	Soil	0.40	58.25	85.67	141.5	131	60.0	46.9	1279	3.83	15.8	1.8	2.3	18.5	16.1	0.08	1.55	0.42	9	0.26	0.044
073657	Soil	0.61	64.97	63.08	128.4	121	62.9	41.9	811	3.97	10.8	2.5	1.3	19.5	14.8	0.08	0.93	0.44	9	0.25	0.056
073658	Soil	0.44	38.50	38.56	61.2	89	50.9	31.1	746	3.55	12.3	1.2	0.7	16.5	17.9	0.18	0.74	0.25	14	0.40	0.048
073659	Soil	0.68	57.62	31.21	62.9	125	55.6	32.5	813	4.12	18.2	1.7	4.8	17.0	16.9	0.11	0.96	0.32	20	0.21	0.060
073660	Soil	0.35	48.81	59.05	123.8	77	51.2	30.9	1044	3.83	22.6	1.9	<0.2	19.3	57.0	0.06	0.87	0.38	9	2.20	0.039



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**Project:** NA-16176  
**Report Date:** September 17, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000235.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
072641	Soil	16.0	20.4	0.63	32.1	0.006	1	1.72	0.010	0.03	<0.1	1.9	0.04	0.03	34	<0.1	0.11	5.0	1.21	<0.1	0.12
072642	Soil	6.9	15.5	0.48	30.5	0.004	<1	1.07	0.012	0.04	<0.1	0.7	0.03	0.05	20	0.3	0.09	3.8	0.70	0.1	0.03
072643	Soil	25.8	10.6	0.11	10.4	<0.001	<1	0.38	0.002	0.03	<0.1	1.5	0.04	<0.02	<5	<0.1	0.12	1.6	0.58	<0.1	<0.02
072644	Soil	21.8	14.7	0.21	31.7	0.001	2	0.88	0.003	0.04	0.3	2.0	0.07	0.03	50	0.5	0.12	3.1	1.40	<0.1	0.04
072645	Soil	14.8	28.2	0.94	21.3	0.001	<1	2.21	0.005	0.03	<0.1	3.2	0.03	0.03	40	<0.1	0.14	6.7	1.66	<0.1	0.21
072646	Soil	16.9	28.1	0.94	25.3	0.002	<1	2.31	0.004	0.04	<0.1	3.4	0.03	<0.02	21	<0.1	0.09	6.2	1.95	<0.1	0.08
072647	Soil	16.4	25.7	0.71	36.3	0.004	1	1.88	0.004	0.05	<0.1	2.2	0.05	0.04	38	0.6	0.12	5.8	2.27	<0.1	0.08
072648	Soil	19.2	30.5	1.07	16.1	<0.001	<1	2.45	0.004	0.06	<0.1	3.9	<0.02	<0.02	12	<0.1	0.12	6.7	1.47	<0.1	0.24
072649	Soil	15.2	31.0	0.99	19.6	0.001	<1	2.28	0.005	0.03	<0.1	3.1	0.03	0.03	32	<0.1	0.17	6.2	1.78	<0.1	0.15
072650	Soil	9.4	19.3	0.70	17.8	<0.001	<1	1.50	0.004	0.03	<0.1	3.7	0.03	0.08	28	0.3	0.21	3.9	1.32	0.1	0.10
073651	Soil	21.9	16.6	0.39	37.7	0.003	<1	1.28	0.011	0.05	0.1	1.5	0.05	<0.02	<5	<0.1	0.08	4.2	1.00	<0.1	<0.02
073652	Soil	31.1	21.4	0.58	29.6	0.009	2	1.75	0.005	0.04	<0.1	1.1	0.06	0.03	<5	0.2	0.08	5.0	1.15	<0.1	0.04
073653	Soil	45.3	21.7	0.64	23.0	0.003	<1	1.89	0.002	0.04	<0.1	1.5	0.05	<0.02	14	<0.1	0.05	5.8	1.09	<0.1	0.03
073654	Soil	45.3	15.0	0.44	32.9	<0.001	<1	1.49	0.005	0.06	<0.1	3.0	0.07	0.02	23	<0.1	0.08	3.5	1.90	<0.1	0.08
073655	Soil	25.2	16.3	0.47	51.7	0.002	1	1.41	0.004	0.07	<0.1	2.3	0.07	0.06	38	0.3	0.06	3.4	1.67	<0.1	0.10
073656	Soil	40.1	17.1	0.54	45.2	0.002	<1	1.49	0.003	0.06	<0.1	2.4	0.06	<0.02	74	0.5	0.07	3.8	2.49	<0.1	0.10
073657	Soil	37.7	18.4	0.61	35.3	0.002	<1	1.44	0.003	0.06	<0.1	2.1	0.06	0.03	32	0.1	0.08	3.9	1.87	<0.1	0.07
073658	Soil	25.2	37.8	0.78	28.5	<0.001	<1	1.66	0.003	0.06	<0.1	2.9	0.04	<0.02	45	<0.1	0.04	4.0	2.93	<0.1	0.12
073659	Soil	28.3	47.2	0.98	29.2	0.002	<1	1.81	0.004	0.05	<0.1	3.3	0.05	<0.02	21	0.4	0.09	4.4	1.68	0.1	0.10
073660	Soil	27.9	20.0	0.58	34.9	0.001	<1	1.50	0.003	0.08	<0.1	2.2	0.05	<0.02	10	<0.1	0.03	4.1	2.29	<0.1	0.34



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**Project:** NA-16176  
**Report Date:** September 17, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000235.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
072641	Soil	0.16	3.4	0.3	<0.05	2.0	5.18	29.9	0.03	1	0.9	48.9	<10	<2
072642	Soil	0.16	4.0	0.1	<0.05	1.5	0.98	12.6	<0.02	4	0.3	32.5	<10	<2
072643	Soil	<0.02	2.2	0.5	<0.05	0.4	2.35	50.7	<0.02	2	0.4	7.4	<10	3
072644	Soil	0.08	3.5	0.5	<0.05	1.9	4.07	44.9	<0.02	6	0.3	18.6	<10	6
072645	Soil	0.09	2.8	0.1	<0.05	6.7	5.95	25.4	0.04	<1	0.3	67.9	<10	6
072646	Soil	0.08	3.6	0.2	<0.05	4.4	7.01	29.5	<0.02	1	0.6	70.3	<10	4
072647	Soil	0.21	6.2	0.2	<0.05	2.2	4.53	32.1	0.02	4	0.4	56.7	<10	5
072648	Soil	0.03	2.6	0.2	<0.05	7.8	7.64	34.5	0.03	5	0.2	76.0	<10	7
072649	Soil	0.06	2.3	0.3	<0.05	6.1	5.93	28.7	<0.02	3	0.6	77.1	<10	<2
072650	Soil	0.02	1.7	0.2	<0.05	5.3	9.67	17.3	0.03	3	0.7	45.4	14	3
073651	Soil	0.32	5.8	0.2	<0.05	1.1	1.65	41.0	<0.02	3	0.2	32.3	<10	<2
073652	Soil	0.23	5.5	0.3	<0.05	1.0	4.47	61.5	<0.02	1	0.4	34.6	10	<2
073653	Soil	0.26	5.2	0.4	<0.05	1.9	4.14	89.7	0.04	3	0.6	39.3	<10	5
073654	Soil	0.05	5.1	0.4	<0.05	3.2	15.73	91.2	<0.02	<1	0.4	21.5	<10	<2
073655	Soil	0.26	8.0	0.3	<0.05	4.6	20.00	54.3	<0.02	1	1.1	26.2	<10	<2
073656	Soil	0.08	5.0	0.4	<0.05	7.4	20.70	80.6	<0.02	<1	0.7	25.9	<10	<2
073657	Soil	0.14	4.1	0.3	<0.05	8.4	15.49	77.4	<0.02	5	0.4	32.0	14	4
073658	Soil	0.02	4.0	0.5	<0.05	10.3	10.32	52.7	<0.02	<1	0.8	41.2	14	6
073659	Soil	0.03	3.6	0.3	<0.05	7.1	12.63	58.1	<0.02	3	0.4	52.1	<10	2
073660	Soil	0.07	4.4	0.3	<0.05	21.1	12.63	55.2	<0.02	4	0.4	31.0	15	3



# QUALITY CONTROL REPORT

WHI16000235.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
Pulp Duplicates																					
069471	Soil	0.56	25.05	26.79	54.1	51	21.5	12.5	529	2.22	26.9	1.1	7.5	3.1	6.8	0.06	0.34	0.24	16	0.08	0.075
REP 069471	QC	0.58	24.11	27.02	51.5	48	20.9	12.5	525	2.24	26.7	1.1	4.1	3.3	6.8	0.06	0.33	0.24	16	0.08	0.072
069048	Soil	0.53	30.17	51.25	84.9	69	35.9	34.5	1478	3.79	6.9	1.5	0.4	8.2	12.4	0.18	0.47	0.38	13	0.09	0.086
REP 069048	QC	0.52	29.94	51.23	85.9	69	36.2	35.9	1479	3.76	6.6	1.5	0.6	7.8	12.6	0.18	0.47	0.38	13	0.09	0.083
069186	Soil	0.34	7.76	5.20	17.0	24	5.3	2.2	61	1.07	8.7	0.3	0.4	0.2	5.3	0.03	0.14	0.10	13	0.08	0.052
REP 069186	QC	0.32	7.71	5.11	16.7	21	5.2	2.2	61	1.06	8.7	0.3	1.9	0.2	5.3	0.03	0.13	0.10	14	0.08	0.052
069409	Soil	0.59	25.64	17.36	78.5	40	38.7	13.1	506	4.06	34.3	1.7	14.6	7.9	6.2	0.04	0.39	0.30	18	0.06	0.059
REP 069409	QC	0.58	25.25	17.00	75.0	38	37.4	12.8	518	4.03	33.8	1.7	15.0	8.0	6.3	0.04	0.38	0.30	18	0.06	0.058
072776	Soil	0.67	25.94	29.00	92.9	265	21.5	12.9	1964	2.06	61.7	0.8	3.6	0.7	13.4	1.12	0.63	0.34	9	0.25	0.062
REP 072776	QC	0.75	27.67	29.30	92.8	278	23.7	13.3	1942	2.07	62.4	0.8	3.4	0.7	13.5	1.14	0.69	0.28	9	0.25	0.060
070202	Soil	0.34	24.64	23.12	76.8	40	34.9	10.7	443	4.09	21.2	0.9	2.0	7.5	2.9	0.02	0.39	0.46	15	0.02	0.071
REP 070202	QC	0.45	23.86	22.42	74.9	53	35.7	10.4	455	4.12	20.3	0.8	2.6	7.7	3.2	0.04	0.43	0.43	15	0.02	0.070
069368	Soil	0.36	20.60	20.30	64.3	48	18.4	7.5	352	2.79	9.5	0.9	<0.2	5.8	4.0	0.02	0.49	0.39	10	0.02	0.057
REP 069368	QC	0.32	19.38	20.28	59.9	31	18.1	7.1	362	2.75	8.9	0.9	1.9	5.5	3.8	0.04	0.49	0.39	11	0.02	0.056
072804	Soil	1.14	86.48	50.77	106.3	88	54.2	57.8	3468	5.15	52.4	4.7	3.3	8.7	9.5	0.05	1.76	0.70	16	0.08	0.092
REP 072804	QC	1.01	90.42	51.35	100.5	46	57.4	57.0	3458	5.38	52.6	4.7	1.9	10.1	9.6	0.04	1.92	0.67	16	0.08	0.094
072650	Soil	0.72	65.14	35.25	92.1	100	45.6	23.3	896	4.22	31.9	1.5	3.0	4.5	25.1	0.11	1.80	0.68	10	1.59	0.062
REP 072650	QC	0.77	68.08	36.64	91.5	109	45.8	24.2	937	4.47	33.1	1.5	0.7	5.2	25.6	0.13	1.89	0.72	10	1.63	0.061
Reference Materials																					
STD DS10	Standard	14.95	156.58	150.93	371.3	1870	78.1	13.3	838	2.81	46.8	2.7	89.8	7.6	67.6	2.41	9.67	12.15	42	1.08	0.077
STD DS10	Standard	15.05	155.40	146.34	367.6	1753	76.4	13.5	838	2.80	45.4	2.6	71.5	7.4	68.6	2.72	10.03	12.25	44	1.10	0.077
STD DS10	Standard	14.94	158.44	147.61	361.8	1573	78.8	12.3	862	2.73	42.0	2.5	86.0	7.2	64.2	2.29	9.23	11.16	43	1.07	0.069
STD DS10	Standard	15.64	138.42	158.09	354.7	1837	78.2	13.7	931	2.86	42.9	2.5	77.9	6.9	67.6	2.31	8.74	11.22	45	1.10	0.073
STD DS10	Standard	15.66	164.29	153.73	362.2	1615	79.8	13.2	887	2.76	45.1	2.7	66.5	7.7	70.2	2.67	8.98	12.12	42	1.10	0.070
STD DS10	Standard	15.77	148.70	138.66	347.4	1901	75.7	11.6	888	2.71	41.0	2.3	108.9	6.4	65.6	2.18	8.31	10.08	42	1.08	0.069
STD DS10	Standard	15.53	154.63	151.02	360.7	1652	75.0	12.9	852	2.72	42.6	2.6	67.2	7.7	66.9	2.26	9.04	11.59	43	1.07	0.069
STD DS10	Standard	15.51	162.33	160.28	363.3	1691	80.1	13.1	889	2.75	44.1	2.8	75.1	8.0	67.3	2.30	9.38	12.56	43	1.07	0.067
STD DS10	Standard	15.72	133.99	155.38	356.4	1892	76.4	13.4	917	2.77	41.8	2.5	83.3	6.8	71.6	2.32	8.57	10.98	43	1.08	0.067



# QUALITY CONTROL REPORT

WHI16000235.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
Pulp Duplicates																					
069471	Soil	14.1	12.4	0.26	20.0	0.015	1	1.00	0.015	0.03	0.2	1.3	0.05	0.03	41	0.5	0.03	3.1	0.72	<0.1	0.06
REP 069471	QC	14.5	12.6	0.27	21.3	0.015	<1	1.01	0.014	0.03	0.2	1.4	0.05	0.03	49	0.2	0.05	3.1	0.75	<0.1	0.02
069048	Soil	17.8	22.9	0.56	42.2	0.003	<1	1.82	0.004	0.04	<0.1	1.9	0.06	0.04	34	0.3	0.04	5.1	1.30	<0.1	0.10
REP 069048	QC	17.4	23.1	0.56	41.9	0.003	<1	1.82	0.003	0.04	<0.1	1.9	0.06	0.04	35	0.2	0.04	5.1	1.27	<0.1	0.10
069186	Soil	5.8	6.8	0.09	14.5	0.009	<1	0.63	0.018	0.02	<0.1	0.3	0.03	0.03	20	0.1	<0.02	2.4	0.34	<0.1	<0.02
REP 069186	QC	5.6	6.6	0.09	14.5	0.009	<1	0.61	0.016	0.02	<0.1	0.3	0.03	0.03	19	0.3	<0.02	2.4	0.32	<0.1	<0.02
069409	Soil	34.1	26.6	0.66	22.9	0.005	<1	1.71	0.004	0.04	0.1	2.1	0.07	<0.02	35	0.2	0.05	5.0	0.97	<0.1	0.03
REP 069409	QC	34.2	26.6	0.67	22.4	0.005	<1	1.73	0.004	0.04	0.1	2.1	0.07	<0.02	41	0.1	0.04	5.1	0.96	<0.1	0.02
072776	Soil	5.2	10.6	0.18	65.1	0.004	<1	0.73	0.014	0.05	<0.1	0.6	0.03	0.05	57	0.3	0.08	2.4	1.53	<0.1	<0.02
REP 072776	QC	5.0	11.3	0.18	64.5	0.004	<1	0.74	0.015	0.05	<0.1	0.6	0.05	0.05	51	0.3	0.07	3.1	1.52	<0.1	<0.02
070202	Soil	31.6	31.6	0.84	33.7	0.001	2	2.31	0.004	0.04	<0.1	1.3	0.05	<0.02	24	<0.1	0.09	6.1	1.13	<0.1	0.08
REP 070202	QC	31.5	31.6	0.84	34.1	0.001	<1	2.24	0.005	0.04	<0.1	1.2	0.04	<0.02	14	0.1	0.04	6.4	1.11	<0.1	0.07
069368	Soil	12.3	16.0	0.61	15.3	0.004	<1	1.44	0.009	0.02	<0.1	1.3	0.04	0.02	12	<0.1	0.02	4.5	0.78	<0.1	0.03
REP 069368	QC	12.8	16.7	0.59	15.6	0.005	<1	1.40	0.008	0.02	<0.1	1.2	0.04	<0.02	18	0.2	<0.02	3.9	0.77	<0.1	0.05
072804	Soil	17.6	32.2	1.20	17.2	0.002	<1	2.45	0.004	0.03	<0.1	3.0	0.05	0.03	23	<0.1	0.14	6.3	2.24	<0.1	0.08
REP 072804	QC	13.5	32.4	1.24	17.4	0.003	2	2.53	0.004	0.03	<0.1	3.5	0.04	0.03	11	<0.1	0.16	6.1	2.37	0.3	0.04
072650	Soil	9.4	19.3	0.70	17.8	<0.001	<1	1.50	0.004	0.03	<0.1	3.7	0.03	0.08	28	0.3	0.21	3.9	1.32	0.1	0.10
REP 072650	QC	12.2	20.5	0.70	17.2	<0.001	3	1.53	0.005	0.03	<0.1	4.2	0.03	0.09	51	0.1	0.28	4.2	1.41	<0.1	0.09
Reference Materials																					
STD DS10	Standard	18.0	57.1	0.79	353.9	0.081	7	1.06	0.073	0.35	3.7	3.3	5.40	0.28	270	2.1	5.53	4.8	2.69	0.1	0.04
STD DS10	Standard	17.9	56.3	0.82	358.5	0.084	7	1.10	0.072	0.35	3.2	2.9	5.13	0.28	260	2.0	4.91	4.4	2.65	<0.1	0.04
STD DS10	Standard	17.4	58.5	0.77	338.1	0.081	4	1.05	0.070	0.33	3.1	2.8	4.90	0.28	342	2.5	5.12	4.3	2.63	0.2	0.05
STD DS10	Standard	17.1	58.9	0.79	378.3	0.074	7	1.10	0.074	0.35	3.5	3.1	5.34	0.29	262	2.4	5.00	4.5	2.88	<0.1	0.05
STD DS10	Standard	19.1	58.8	0.78	360.3	0.086	8	1.12	0.074	0.36	3.0	3.0	5.04	0.27	279	2.1	4.83	4.4	2.72	<0.1	0.08
STD DS10	Standard	15.5	58.7	0.78	366.9	0.068	8	1.07	0.072	0.35	3.3	3.1	5.26	0.28	287	2.3	5.14	4.4	2.49	<0.1	0.04
STD DS10	Standard	17.9	56.8	0.75	348.0	0.082	6	1.04	0.074	0.34	3.3	3.1	4.96	0.28	337	2.4	4.96	4.2	2.67	<0.1	0.05
STD DS10	Standard	18.5	57.9	0.78	329.3	0.080	10	1.09	0.074	0.34	3.4	3.2	5.35	0.27	270	2.3	5.40	3.6	2.57	<0.1	0.04
STD DS10	Standard	17.7	56.6	0.79	375.1	0.074	7	1.08	0.072	0.35	3.6	3.1	5.43	0.28	287	2.4	5.24	4.6	2.94	<0.1	0.06



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Project: NA-16176  
Report Date: September 17, 2016

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# QUALITY CONTROL REPORT

WHI16000235.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates														
069471	Soil	0.23	3.6	0.3	<0.05	1.0	2.68	29.6	<0.02	<1	0.5	18.8	<10	<2
REP 069471	QC	0.23	3.6	0.4	<0.05	0.9	2.68	29.2	<0.02	1	0.3	18.5	<10	3
069048	Soil	0.14	4.5	0.4	<0.05	3.7	9.70	41.6	0.03	<1	0.6	47.4	<10	<2
REP 069048	QC	0.12	4.5	0.5	<0.05	3.8	9.79	40.6	0.03	<1	0.8	45.4	<10	<2
069186	Soil	0.14	2.1	0.2	<0.05	0.3	0.98	12.2	<0.02	<1	<0.1	7.0	<10	<2
REP 069186	QC	0.13	2.0	0.2	<0.05	0.3	1.00	11.6	<0.02	<1	<0.1	6.8	<10	<2
069409	Soil	0.13	3.4	0.3	<0.05	0.8	3.54	92.1	<0.02	<1	0.3	47.9	<10	<2
REP 069409	QC	0.13	3.4	0.3	<0.05	0.8	3.53	92.6	0.02	<1	0.3	45.8	<10	<2
072776	Soil	0.22	4.2	1.5	<0.05	0.7	1.68	10.0	0.03	1	0.5	13.5	<10	3
REP 072776	QC	0.21	4.2	1.9	<0.05	0.9	1.74	10.2	<0.02	<1	0.4	13.3	<10	<2
070202	Soil	0.09	4.7	0.2	<0.05	2.9	1.69	59.7	<0.02	<1	0.3	62.3	<10	2
REP 070202	QC	0.07	4.7	0.4	<0.05	2.8	1.71	59.4	0.02	<1	0.4	59.2	13	3
069368	Soil	0.07	3.9	0.1	<0.05	1.8	3.00	22.8	0.03	<1	0.2	40.4	<10	<2
REP 069368	QC	0.10	3.9	0.4	<0.05	1.7	3.07	23.1	<0.02	<1	<0.1	41.3	<10	<2
072804	Soil	0.03	2.3	0.3	<0.05	2.7	8.41	31.8	<0.02	<1	0.3	84.2	<10	<2
REP 072804	QC	0.02	2.7	0.3	<0.05	1.4	8.82	23.9	<0.02	<1	0.2	84.1	<10	<2
072650	Soil	0.02	1.7	0.2	<0.05	5.3	9.67	17.3	0.03	3	0.7	45.4	14	3
REP 072650	QC	0.03	1.9	0.6	<0.05	5.5	9.90	21.6	0.04	<1	0.7	46.7	25	3
Reference Materials														
STD DS10	Standard	1.64	28.7	1.8	<0.05	2.4	8.10	36.7	0.26	39	0.5	19.8	131	164
STD DS10	Standard	1.65	28.9	1.4	<0.05	2.6	8.17	37.2	0.17	35	0.7	20.7	116	163
STD DS10	Standard	1.47	27.2	1.2	<0.05	2.5	7.08	34.9	0.19	42	0.6	19.9	108	201
STD DS10	Standard	1.65	26.3	1.4	<0.05	2.4	8.00	37.5	0.21	51	0.6	21.0	118	193
STD DS10	Standard	1.60	28.0	1.7	<0.05	2.7	8.61	39.2	0.26	52	0.4	19.2	122	203
STD DS10	Standard	1.69	24.6	1.4	<0.05	2.3	7.70	35.6	0.19	48	0.6	18.5	128	192
STD DS10	Standard	1.46	28.2	1.4	<0.05	2.5	7.86	36.3	0.24	27	0.9	18.4	98	153
STD DS10	Standard	1.76	28.6	1.3	<0.05	2.4	8.12	36.7	0.23	44	0.5	18.8	121	178
STD DS10	Standard	1.68	27.4	1.5	<0.05	2.4	8.38	38.1	0.23	56	0.8	21.1	126	189



Bureau Veritas Commodities Canada Ltd.  
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**Client:** Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

Project: NA-16176  
Report Date: September 17, 2016

Page: 2 of 2

Part: 1 of 3

# QUALITY CONTROL REPORT

WHI16000235.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
STD OXC129	Standard	1.28	27.50	6.26	39.8	22	80.8	21.9	417	3.09	1.0	0.7	194.8	1.7	189.5	0.06	0.04	0.03	50	0.68	0.100
STD OXC129	Standard	1.23	27.53	6.01	41.8	11	81.8	21.5	405	3.02	0.4	0.7	201.1	1.8	195.9	0.05	0.03	<0.02	51	0.69	0.098
STD OXC129	Standard	1.55	26.98	6.37	41.2	16	86.3	19.4	424	2.98	0.4	0.7	175.1	1.8	184.1	<0.01	0.02	<0.02	50	0.67	0.104
STD OXC129	Standard	1.35	23.80	6.01	40.1	11	79.1	20.9	415	3.01	0.6	0.6	201.2	1.7	193.7	0.02	0.04	<0.02	52	0.70	0.094
STD OXC129	Standard	1.25	28.75	6.40	42.0	37	82.3	20.4	419	3.02	<0.1	0.7	192.8	1.9	191.7	0.05	0.05	<0.02	50	0.72	0.093
STD OXC129	Standard	1.28	22.41	5.14	39.7	11	78.0	17.8	422	3.06	0.8	0.6	199.1	1.5	192.5	<0.01	0.03	<0.02	51	0.71	0.088
STD OXC129	Standard	1.27	28.12	6.35	40.9	15	83.2	20.8	422	3.01	0.5	0.7	184.8	1.8	185.8	0.03	0.03	<0.02	52	0.69	0.088
STD OXC129	Standard	1.41	29.58	6.70	43.2	16	85.7	21.5	443	3.03	0.7	0.8	194.9	1.9	192.1	0.06	0.02	<0.02	50	0.68	0.093
STD OXC129	Standard	1.27	24.04	5.94	40.9	13	75.4	19.8	416	3.04	0.7	0.6	201.7	1.7	192.1	0.04	0.07	0.04	50	0.69	0.092
STD DS10 Expected		15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	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	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665	0.102
BLK	Blank	<0.01	0.03	0.01	<0.1	2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	0.02	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.02	0.01	<0.1	<2	0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	0.01	<0.1	6	0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	0.03	0.1	2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	5	<0.1	<0.1	<1	0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



# QUALITY CONTROL REPORT

WHI16000235.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
STD OXC129	Standard	12.2	53.0	1.52	49.3	0.415	2	1.59	0.599	0.37	<0.1	1.2	0.05	<0.02	<5	<0.1	0.04	5.6	0.17	0.1	0.17
STD OXC129	Standard	12.3	54.0	1.56	47.7	0.400	<1	1.58	0.605	0.36	0.1	1.2	0.03	<0.02	<5	<0.1	<0.02	5.1	0.14	<0.1	0.24
STD OXC129	Standard	12.4	53.8	1.49	46.5	0.414	<1	1.52	0.572	0.35	<0.1	0.8	0.03	<0.02	<5	<0.1	<0.02	5.1	0.15	0.1	0.25
STD OXC129	Standard	11.4	53.6	1.54	51.6	0.392	1	1.58	0.589	0.36	<0.1	1.2	0.03	<0.02	<5	<0.1	<0.02	5.7	0.17	<0.1	0.29
STD OXC129	Standard	12.5	55.6	1.51	48.7	0.405	4	1.61	0.594	0.38	<0.1	1.1	0.03	<0.02	<5	<0.1	<0.02	5.5	0.14	<0.1	0.34
STD OXC129	Standard	11.7	52.6	1.54	42.9	0.398	1	1.60	0.594	0.37	<0.1	1.2	0.03	<0.02	<5	<0.1	<0.02	5.5	0.14	<0.1	0.22
STD OXC129	Standard	12.3	54.6	1.53	47.5	0.406	<1	1.57	0.593	0.37	<0.1	0.8	0.04	<0.02	<5	<0.1	<0.02	5.9	0.17	<0.1	0.30
STD OXC129	Standard	12.5	54.6	1.54	51.9	0.414	2	1.61	0.597	0.38	<0.1	0.9	0.04	<0.02	<5	<0.1	<0.02	5.7	0.14	<0.1	0.33
STD OXC129	Standard	11.2	50.3	1.53	51.2	0.380	<1	1.58	0.582	0.36	<0.1	1.2	0.04	<0.02	<5	<0.1	<0.02	5.7	0.17	<0.1	0.26
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0259	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	2.63	0.08	0.06
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6	0.16		0.24
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	0.2	<0.02	<0.02	7	<0.1	0.08	0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	0.2	<0.02	<0.02	8	<0.1	0.05	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	11	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	8	<0.1	0.03	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	0.04	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



# QUALITY CONTROL REPORT

WHI16000235.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
STD OXC129	Standard	1.33	15.5	0.7	<0.05	19.3	4.85	23.3	<0.02	<1	1.2	2.3	<10	<2
STD OXC129	Standard	2.20	15.4	0.8	<0.05	21.9	4.63	23.1	<0.02	<1	0.6	2.2	<10	<2
STD OXC129	Standard	1.51	14.6	0.5	<0.05	22.4	4.53	22.3	<0.02	<1	0.8	1.9	<10	<2
STD OXC129	Standard	1.89	14.3	0.6	<0.05	22.3	4.63	22.5	<0.02	<1	0.8	2.2	<10	<2
STD OXC129	Standard	1.47	15.3	0.8	<0.05	23.2	4.58	22.8	<0.02	<1	0.9	2.2	<10	<2
STD OXC129	Standard	1.71	13.0	0.6	<0.05	18.9	4.46	21.1	<0.02	<1	0.9	2.0	<10	<2
STD OXC129	Standard	1.44	15.0	0.8	<0.05	19.8	4.60	22.6	<0.02	<1	1.1	1.9	<10	<2
STD OXC129	Standard	1.74	15.7	0.9	<0.05	23.5	4.79	23.0	<0.02	<1	1.0	1.9	<10	<2
STD OXC129	Standard	1.60	14.5	0.7	<0.05	21.8	4.67	22.7	0.03	<1	0.9	2.2	<10	<2
STD DS10 Expected		1.62	27.7	1.6		2.7	7.77	37	0.23	50	0.63	19.4	110	191
STD OXC129 Expected		1.4		0.7		21	4.7	23.7			0.8	2.22		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	3
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	4	<0.1	<0.1	<10	4
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	0.04	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

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**Client:** **Golden Predator Mining Corp.**  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

Submitted By: M. Burke  
Receiving Lab: Canada-Whitehorse  
Received: August 31, 2016  
Report Date: September 21, 2016  
Page: 1 of 12

# CERTIFICATE OF ANALYSIS

WHI16000236.1

## CLIENT JOB INFORMATION

Project: NA-16176  
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: Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6  
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
AQ251_EXT	315	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
SHP01	320	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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**Client:** Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

**Project:** NA-16176  
**Report Date:** September 21, 2016

**Page:** 2 of 12

**Part:** 1 of 3

# CERTIFICATE OF ANALYSIS

# WHI16000236.1

Method Analyte	Unit	MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
073661	Soil		0.33	33.73	31.24	65.4	123	26.7	13.9	479	2.45	13.3	1.7	4.2	6.0	13.5	0.07	0.80	0.28	9	0.22	0.057
073662	Soil		0.37	48.06	37.41	81.4	80	36.3	22.7	798	3.77	21.6	2.2	2.8	12.2	11.5	0.09	1.10	0.49	11	0.15	0.061
073663	Soil		0.39	58.16	38.05	82.4	148	38.8	24.6	963	3.84	28.7	1.8	4.7	17.1	15.6	0.08	1.23	0.49	11	0.22	0.064
073664	Soil		0.38	51.71	37.81	99.9	98	35.6	17.6	614	4.01	996.0	1.8	166.7	10.5	7.2	0.04	2.67	0.59	7	0.07	0.025
073665	Soil		0.35	41.16	37.04	92.2	52	28.5	16.1	567	3.70	6.7	1.6	<0.2	9.4	8.4	0.04	0.67	0.47	16	0.10	0.049
073666	Soil		0.30	41.70	36.80	96.8	33	31.2	15.7	575	3.88	7.0	1.6	<0.2	10.5	8.4	0.02	0.69	0.51	12	0.10	0.041
073667	Soil		0.32	55.15	13.96	103.9	41	31.6	16.0	975	3.78	1.7	1.1	1.2	12.3	4.2	0.09	0.50	0.75	13	0.02	0.062
073668	Soil		0.39	27.90	22.29	76.3	34	27.4	18.6	623	3.60	5.7	0.9	1.6	7.9	4.6	0.05	0.40	0.46	11	0.03	0.053
073669	Soil		0.27	37.51	90.16	101.9	80	35.8	28.0	1127	3.97	7.1	1.4	1.7	21.2	7.7	0.06	0.31	0.49	13	0.19	0.023
073670	Soil		0.33	36.47	39.70	81.1	54	31.1	29.4	1347	3.63	7.9	1.3	0.5	14.9	8.7	0.03	0.50	0.45	9	0.09	0.030
072561	Soil		0.63	30.62	25.46	97.5	48	37.8	16.7	731	4.57	18.9	1.1	<0.2	4.2	7.6	0.12	0.74	0.60	16	0.21	0.095
072562	Soil		0.80	70.02	42.23	107.2	86	53.1	30.6	1342	4.81	32.2	1.8	3.3	8.0	10.5	0.11	1.39	0.64	15	0.39	0.061
072563	Soil		0.67	33.19	41.52	62.4	149	20.8	11.0	440	3.85	18.7	1.1	0.6	2.7	3.5	0.17	0.49	0.57	21	0.03	0.113
072564	Soil		0.40	33.88	18.84	68.5	134	28.7	15.3	500	3.22	14.9	0.9	1.1	3.2	3.3	0.03	0.55	0.37	13	0.03	0.048
072565	Soil		0.21	6.61	4.57	20.2	62	6.0	3.3	204	0.74	3.6	0.3	<0.2	0.3	5.2	0.07	0.14	0.10	6	0.09	0.036
072566	Soil		0.33	18.35	13.04	52.4	69	18.4	7.6	591	2.01	10.4	0.6	0.2	1.8	7.2	0.10	0.48	0.25	8	0.18	0.056
072567	Soil		0.55	43.21	25.76	108.5	40	48.9	19.2	633	4.67	19.7	1.2	0.7	7.8	4.8	0.04	0.58	0.52	17	0.15	0.044
072568	Soil		0.53	46.22	26.74	109.1	41	45.7	19.2	758	4.80	24.3	1.2	0.7	7.7	5.5	0.06	0.83	0.55	16	0.16	0.044
072569	Soil		0.59	40.38	32.04	100.3	34	44.9	22.8	1072	4.48	25.8	1.1	1.5	6.8	5.3	0.06	0.83	0.59	15	0.18	0.051
072570	Soil		0.59	32.72	24.56	96.9	34	40.6	13.9	475	4.41	18.1	1.1	0.8	7.1	3.5	0.04	0.67	0.47	16	0.05	0.044
072571	Soil		0.16	7.00	4.48	9.2	66	4.0	2.6	138	0.46	1.4	0.3	<0.2	0.2	13.1	0.03	0.07	0.08	4	0.37	0.034
072572	Soil		0.60	60.84	34.27	111.0	77	50.2	24.4	865	4.84	25.7	1.5	0.6	8.7	7.5	0.08	1.06	0.58	16	0.29	0.053
072573	Soil		0.65	62.39	34.91	109.7	75	53.1	25.4	971	4.81	25.5	1.5	0.9	9.3	7.8	0.09	1.13	0.60	16	0.23	0.052
072574	Soil		0.47	36.43	31.06	89.4	149	35.2	18.1	905	3.82	12.7	1.2	0.8	4.6	3.8	0.07	0.30	0.42	15	0.05	0.060
072575	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.
072576	Soil		0.57	69.09	41.68	119.3	96	51.6	27.6	870	4.95	21.7	1.9	2.3	9.4	4.0	0.07	0.54	0.57	17	0.09	0.039
072577	Soil		0.41	41.99	32.68	80.0	230	31.4	15.2	480	3.63	16.0	1.1	1.0	3.9	3.2	0.14	0.39	0.40	15	0.05	0.059
072578	Soil		0.45	52.39	34.21	107.3	62	49.5	24.0	980	4.77	18.4	1.4	1.1	9.0	3.8	0.05	0.44	0.48	17	0.08	0.036
072579	Soil		0.89	53.95	73.71	99.1	45	40.3	37.7	2189	5.12	19.6	2.5	0.6	5.0	6.0	0.17	0.65	0.67	24	0.08	0.069
072580	Soil		0.55	83.30	68.77	119.3	130	50.8	34.3	966	4.82	18.3	1.9	0.9	11.9	4.5	0.09	0.34	0.58	19	0.10	0.050



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**Project:** NA-16176  
**Report Date:** September 21, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000236.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sc ppm	Tl ppm	S %	Hg ppb	Se ppm	Te ppm	Ga ppm	Cs ppm	Ge ppm	Hf ppm	
073661	Soil	25.8	9.8	0.29	35.3	0.005	2	1.10	0.018	0.04	<0.1	1.5	0.05	0.03	24	0.1	<0.02	2.6	1.24	<0.1	0.05
073662	Soil	33.8	17.0	0.54	29.1	0.003	2	1.46	0.006	0.04	<0.1	2.1	0.05	0.03	37	0.2	0.04	3.6	0.89	<0.1	0.09
073663	Soil	46.5	19.4	0.59	33.8	0.002	1	1.53	0.005	0.04	<0.1	3.1	0.04	<0.02	20	<0.1	0.03	3.8	1.26	<0.1	0.10
073664	Soil	24.7	10.3	0.30	39.0	<0.001	<1	1.04	0.003	0.03	<0.1	2.7	0.03	<0.02	15	<0.1	0.02	2.2	2.18	<0.1	0.03
073665	Soil	25.5	18.1	0.59	40.2	0.003	<1	1.75	0.008	0.03	<0.1	2.1	0.03	<0.02	16	<0.1	0.03	5.0	1.63	<0.1	0.06
073666	Soil	27.2	19.1	0.65	40.8	0.002	<1	1.82	0.006	0.03	<0.1	2.2	0.03	<0.02	21	<0.1	<0.02	4.7	1.64	<0.1	0.10
073667	Soil	42.4	24.1	0.82	29.0	0.001	<1	2.11	0.003	0.03	<0.1	1.1	0.03	0.02	14	0.1	0.05	5.7	2.29	<0.1	0.19
073668	Soil	18.6	17.3	0.59	20.1	0.002	<1	1.78	0.004	0.03	<0.1	1.1	0.03	0.02	25	0.2	0.02	4.5	0.85	<0.1	0.11
073669	Soil	31.0	27.7	0.93	31.4	<0.001	<1	2.20	0.003	0.03	<0.1	2.3	<0.02	<0.02	22	<0.1	0.03	6.2	1.42	<0.1	0.10
073670	Soil	21.6	16.9	0.66	36.0	<0.001	<1	1.75	0.003	0.03	<0.1	1.6	0.04	<0.02	18	0.1	0.02	4.3	1.26	<0.1	0.05
072561	Soil	12.1	28.9	0.81	17.4	0.001	<1	2.07	0.005	0.02	<0.1	2.2	0.03	0.04	27	0.2	0.08	6.5	1.77	<0.1	0.10
072562	Soil	16.6	28.1	0.97	17.6	<0.001	1	2.10	0.006	0.03	<0.1	3.6	0.03	0.04	18	0.2	0.09	5.7	1.40	<0.1	0.15
072563	Soil	16.2	23.5	0.44	16.0	0.007	1	1.24	0.005	0.04	<0.1	1.1	0.03	0.06	77	0.5	0.08	6.1	1.99	<0.1	0.07
072564	Soil	11.5	20.5	0.62	23.9	0.002	<1	1.64	0.010	0.02	<0.1	2.0	0.02	0.02	20	0.2	0.07	4.8	0.94	<0.1	0.11
072565	Soil	2.7	4.8	0.13	13.7	0.006	<1	0.45	0.021	0.02	<0.1	0.5	<0.02	0.04	16	0.1	<0.02	1.4	0.28	<0.1	0.02
072566	Soil	7.5	11.3	0.34	20.8	0.004	<1	0.93	0.018	0.02	<0.1	1.5	<0.02	0.03	11	0.2	0.04	2.9	0.53	<0.1	0.05
072567	Soil	18.8	34.5	1.08	13.5	<0.001	<1	2.47	0.004	0.02	<0.1	2.8	<0.02	<0.02	16	0.2	0.08	6.8	1.16	<0.1	0.14
072568	Soil	20.5	29.3	0.96	17.0	0.002	<1	2.21	0.007	0.03	<0.1	3.5	<0.02	0.02	9	0.1	0.08	6.0	1.12	<0.1	0.15
072569	Soil	15.1	29.2	0.93	17.9	<0.001	1	2.13	0.005	0.02	<0.1	3.1	0.02	0.02	17	0.2	0.10	5.9	1.12	<0.1	0.15
072570	Soil	20.8	29.5	0.91	16.1	<0.001	<1	2.16	0.005	0.02	<0.1	2.2	0.02	<0.02	9	<0.1	0.06	6.5	1.01	<0.1	0.13
072571	Soil	1.5	3.2	0.07	22.5	0.006	<1	0.33	0.027	0.02	<0.1	0.3	<0.02	0.05	15	0.2	<0.02	1.1	0.24	<0.1	<0.02
072572	Soil	16.8	30.1	1.03	13.2	<0.001	<1	2.29	0.004	0.03	<0.1	3.4	<0.02	0.03	18	0.2	0.09	6.3	1.27	<0.1	0.13
072573	Soil	17.9	31.5	1.03	15.0	<0.001	<1	2.27	0.004	0.03	<0.1	3.3	0.02	0.02	9	0.2	0.10	6.3	1.21	<0.1	0.15
072574	Soil	11.7	27.7	0.81	22.3	0.002	<1	2.02	0.009	0.03	<0.1	1.7	0.03	0.03	13	<0.1	0.05	5.9	2.47	<0.1	0.14
072575	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.
072576	Soil	19.9	37.4	1.15	17.0	<0.001	<1	2.66	0.004	0.03	<0.1	2.8	0.03	<0.02	10	<0.1	0.09	7.7	2.46	<0.1	0.10
072577	Soil	11.5	25.0	0.70	12.2	0.002	<1	1.78	0.007	0.02	<0.1	1.5	<0.02	0.03	26	0.2	0.08	5.4	2.11	<0.1	0.11
072578	Soil	18.9	34.7	1.08	15.1	0.001	<1	2.50	0.004	0.03	<0.1	2.7	<0.02	<0.02	<5	0.2	0.08	7.0	1.69	<0.1	0.09
072579	Soil	21.3	35.1	0.84	34.5	0.018	1	2.38	0.004	0.04	<0.1	2.6	0.03	0.02	27	0.2	0.09	6.9	3.64	<0.1	0.05
072580	Soil	23.7	36.2	1.15	24.0	0.002	<1	2.72	0.007	0.04	<0.1	3.1	0.04	<0.02	7	<0.1	0.09	7.5	3.56	<0.1	0.10



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**Project:** NA-16176  
**Report Date:** September 21, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
073661	Soil	0.26	4.0	0.4	<0.05	2.2	10.89	52.2	0.03	<1	0.5	18.3	<10	<2
073662	Soil	0.13	3.2	0.2	<0.05	3.8	12.44	68.4	0.03	<1	0.6	34.1	<10	<2
073663	Soil	0.06	3.0	0.1	<0.05	7.1	15.33	93.2	0.03	<1	0.7	38.0	<10	<2
073664	Soil	0.03	3.6	0.2	<0.05	1.7	7.09	47.8	0.03	<1	0.6	22.4	<10	<2
073665	Soil	0.07	4.5	0.3	<0.05	3.0	6.23	48.7	<0.02	<1	0.7	43.4	<10	<2
073666	Soil	0.06	4.5	0.2	<0.05	3.6	6.21	51.8	<0.02	<1	0.6	49.3	<10	<2
073667	Soil	0.09	4.2	0.2	<0.05	6.3	4.37	83.0	<0.02	<1	0.3	56.9	<10	<2
073668	Soil	0.11	3.8	0.2	<0.05	3.8	3.61	34.4	<0.02	<1	0.2	40.9	<10	<2
073669	Soil	0.03	2.0	0.1	<0.05	5.8	7.92	59.1	<0.02	<1	0.7	69.4	<10	<2
073670	Soil	<0.02	3.0	0.2	<0.05	2.9	6.45	41.1	<0.02	<1	0.6	46.0	<10	<2
072561	Soil	0.09	4.1	0.2	<0.05	3.3	3.33	22.5	0.03	<1	0.4	59.5	<10	<2
072562	Soil	0.02	1.9	0.2	<0.05	5.8	7.15	29.5	0.03	<1	0.4	69.1	<10	<2
072563	Soil	0.28	3.8	0.3	<0.05	2.0	2.10	30.3	<0.02	<1	0.2	30.2	<10	<2
072564	Soil	0.13	1.8	0.2	<0.05	3.2	4.38	20.2	0.02	<1	0.3	46.3	<10	<2
072565	Soil	0.15	0.9	0.1	<0.05	0.7	1.09	4.7	<0.02	<1	0.1	8.5	<10	<2
072566	Soil	0.17	1.4	0.3	<0.05	1.9	4.25	15.3	0.03	<1	0.2	25.1	<10	<2
072567	Soil	0.02	2.1	0.2	<0.05	5.9	4.17	33.6	0.03	<1	0.3	76.8	<10	<2
072568	Soil	0.04	2.5	0.2	<0.05	5.4	5.77	36.5	0.03	<1	0.4	70.8	<10	<2
072569	Soil	0.05	2.6	0.2	<0.05	5.6	4.37	27.7	0.03	<1	0.4	69.5	<10	<2
072570	Soil	0.06	2.3	0.1	<0.05	4.0	3.37	36.5	<0.02	<1	0.4	67.3	<10	<2
072571	Soil	0.23	0.9	0.1	<0.05	0.8	0.88	2.7	<0.02	<1	<0.1	4.1	<10	<2
072572	Soil	<0.02	1.6	0.2	<0.05	6.2	6.17	30.2	0.02	<1	0.4	74.6	<10	<2
072573	Soil	<0.02	1.6	0.1	<0.05	5.5	5.88	31.6	0.03	<1	0.3	73.1	<10	<2
072574	Soil	0.09	2.9	0.3	<0.05	4.8	2.43	20.2	0.02	<1	0.5	63.6	<10	<2
072575	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.
072576	Soil	0.04	2.1	0.2	<0.05	3.6	4.01	34.6	0.03	<1	0.6	85.5	<10	<2
072577	Soil	0.09	2.3	0.3	<0.05	3.8	2.15	20.0	<0.02	<1	0.3	53.7	<10	<2
072578	Soil	0.04	1.8	0.2	<0.05	3.9	3.97	32.6	0.02	<1	0.5	82.3	<10	<2
072579	Soil	0.55	5.5	0.4	<0.05	1.5	7.92	39.8	0.06	<1	0.8	71.5	<10	<2
072580	Soil	0.02	2.5	0.3	<0.05	9.0	3.93	40.4	0.02	<1	0.6	85.2	<10	<2



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# CERTIFICATE OF ANALYSIS

# WHI16000236.1

Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
MDL		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
071021	Soil	0.42	27.88	16.12	111.9	27	45.8	13.6	391	5.16	14.8	1.0	0.6	9.1	2.6	0.05	0.26	0.40	20	0.02	0.028
071022	Soil	0.46	24.21	24.43	108.4	50	45.4	18.2	622	4.67	20.3	2.8	0.9	6.5	7.7	0.03	0.21	0.54	18	0.18	0.057
071023	Soil	0.44	23.51	13.02	57.5	143	22.6	8.1	320	2.66	8.1	1.9	4.8	5.1	10.2	0.06	0.12	0.40	19	0.07	0.037
071024	Soil	0.42	12.95	14.45	70.7	47	28.4	8.8	286	3.82	9.3	0.8	0.4	7.5	3.5	0.04	0.16	0.36	23	0.01	0.016
071025	Soil	0.65	67.35	27.57	101.5	299	32.5	15.2	988	3.32	15.4	14.5	2.4	2.4	28.0	0.16	0.44	0.56	13	1.15	0.132
071026	Soil	0.39	24.61	10.81	105.3	74	46.4	16.6	440	4.36	6.4	1.0	0.3	6.5	6.2	0.06	0.14	0.34	18	0.17	0.038
071027	Soil	0.65	57.18	24.28	102.9	230	36.7	14.2	608	3.93	23.3	22.9	5.6	3.7	22.4	0.16	0.42	0.67	14	0.62	0.078
071028	Soil	0.71	48.28	30.58	107.0	51	41.2	19.5	1136	4.65	27.0	4.0	3.2	5.9	11.3	0.10	0.36	0.77	17	0.21	0.079
071029	Soil	0.52	35.04	19.93	88.6	115	30.5	10.9	378	3.71	20.1	2.3	3.7	5.0	8.9	0.09	0.43	0.64	13	0.11	0.066
071030	Soil	0.43	46.33	31.00	106.6	82	43.5	20.1	697	4.78	54.2	1.0	4.6	7.1	5.1	0.07	0.47	0.71	17	0.10	0.056
072591	Soil	0.24	3.87	5.55	11.0	62	3.2	1.7	65	0.73	4.0	0.2	1.7	1.6	4.3	0.04	0.10	0.14	10	0.03	0.015
072592	Soil	0.29	12.40	9.65	31.9	142	8.9	4.4	197	1.39	8.5	0.4	1.0	0.4	6.3	0.14	0.17	0.21	10	0.06	0.064
072593	Soil	0.03	0.88	0.54	3.0	58	0.4	0.3	16	0.14	<0.1	<0.1	0.4	<0.1	4.7	0.03	<0.02	<0.02	4	0.03	0.028
072594	Soil	0.66	18.54	19.98	55.9	75	14.4	7.4	377	3.84	20.6	0.7	2.8	3.7	3.5	0.06	0.50	0.45	22	<0.01	0.080
072595	Soil	0.26	6.55	7.56	14.1	123	3.0	1.5	77	0.94	4.2	0.3	0.5	0.1	4.2	0.06	0.15	0.13	10	0.02	0.040
072596	Soil	0.52	19.05	25.27	62.7	112	18.7	11.1	627	3.47	20.0	0.8	3.0	5.4	3.9	0.10	0.31	0.39	18	0.02	0.046
072597	Soil	0.45	24.90	23.48	76.8	238	23.0	11.2	585	4.01	28.6	0.7	1.4	5.3	2.6	0.15	0.42	0.54	18	<0.01	0.087
072598	Soil	0.14	3.53	2.34	5.0	49	1.2	0.9	53	0.40	0.8	0.2	0.4	<0.1	5.3	0.03	0.03	0.06	9	0.04	0.023
072599	Soil	0.74	59.50	65.91	102.8	287	34.4	24.4	1207	4.19	35.4	2.2	4.0	8.8	16.3	0.34	0.63	0.56	14	0.41	0.081
072600	Soil	0.35	15.00	15.04	31.9	108	7.7	5.1	321	2.14	75.6	0.4	0.9	1.7	2.0	0.09	0.18	0.19	10	0.01	0.066
069261	Soil	0.49	51.79	97.37	171.6	731	43.2	19.3	672	3.89	2866.4	1.5	163.6	13.2	44.8	0.55	4.89	0.45	7	1.19	0.051
069262	Soil	0.60	60.27	49.63	104.9	456	45.9	29.7	703	4.16	86.8	2.7	24.1	17.7	33.5	0.14	2.93	0.40	10	0.44	0.074
069263	Soil	0.66	57.93	190.15	216.9	788	47.0	27.0	772	4.35	897.0	2.3	81.0	17.3	33.1	0.94	3.80	0.46	10	0.29	0.069
069264	Soil	0.83	44.65	57.53	114.3	418	41.7	22.2	675	3.75	196.1	1.6	30.5	14.5	32.4	0.25	3.06	0.43	8	0.60	0.061
069265	Soil	0.87	44.79	56.10	106.0	399	40.3	23.8	750	3.69	182.0	1.5	42.8	12.7	27.1	0.22	2.90	0.46	10	0.37	0.061
069266	Soil	1.08	40.52	64.46	115.6	344	39.1	20.5	583	3.72	327.8	1.3	47.0	10.9	20.2	0.21	2.02	0.45	10	0.21	0.042
069267	Soil	0.72	31.04	26.57	78.6	143	34.4	13.6	370	3.46	88.0	1.0	16.9	6.7	9.4	0.07	1.11	0.34	12	0.09	0.043
069268	Soil	5.72	37.32	26.34	87.1	355	36.7	13.4	454	3.50	86.3	1.5	13.8	8.4	12.6	0.19	1.52	0.39	13	0.18	0.050
069269	Soil	0.76	28.47	26.90	86.3	60	34.2	13.6	407	3.52	53.3	0.8	25.9	9.2	13.1	0.09	0.78	0.42	12	0.14	0.048
069270	Soil	0.80	75.34	61.69	107.1	91	44.1	37.1	972	4.91	198.4	3.5	32.5	8.0	5.1	0.06	1.08	0.50	17	0.05	0.071



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**Project:** NA-16176  
**Report Date:** September 21, 2016

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# CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sc ppm	Tl ppm	S %	Hg ppb	Se ppm	Te ppm	Ga ppm	Cs ppm	Ge ppm	Hf ppm	
071021 Soil	30.1	37.9	1.10	22.3	0.002	<1	2.67	0.005	0.03	<0.1	2.4	0.02	<0.02	<5	<0.1	0.07	7.6	1.71	<0.1	0.08	
071022 Soil	17.2	35.0	1.06	33.4	<0.001	<1	2.58	0.004	0.03	<0.1	2.4	<0.02	0.02	15	0.2	0.08	7.2	1.61	<0.1	0.12	
071023 Soil	24.7	23.3	0.51	67.7	0.003	<1	1.58	0.004	0.03	<0.1	1.7	0.06	<0.02	7	0.1	0.06	6.6	1.99	<0.1	0.03	
071024 Soil	33.7	27.7	0.72	27.2	0.003	<1	1.96	0.004	0.03	<0.1	1.7	0.05	<0.02	<5	<0.1	0.04	7.6	1.56	<0.1	<0.02	
071025 Soil	11.6	25.2	0.53	64.2	0.003	1	1.91	0.013	0.04	<0.1	3.2	0.06	0.10	46	0.6	0.11	4.9	7.42	<0.1	0.11	
071026 Soil	22.6	38.9	1.11	32.8	0.001	<1	2.63	0.007	0.04	<0.1	2.0	0.02	<0.02	8	<0.1	0.08	7.5	1.57	<0.1	0.09	
071027 Soil	12.0	29.2	0.71	57.0	0.002	<1	2.06	0.008	0.03	<0.1	3.6	0.04	0.05	28	0.7	0.11	6.0	3.57	<0.1	0.12	
071028 Soil	18.7	29.9	0.90	42.4	0.002	1	2.30	0.006	0.04	<0.1	2.9	0.04	0.02	13	0.2	0.13	6.6	2.55	<0.1	0.11	
071029 Soil	11.8	24.1	0.60	31.5	0.001	<1	1.74	0.009	0.03	<0.1	2.1	0.04	0.03	27	0.3	0.09	5.6	3.35	<0.1	0.11	
071030 Soil	19.1	33.5	0.97	20.7	0.002	<1	2.36	0.004	0.03	<0.1	2.2	0.02	<0.02	9	0.1	0.11	6.8	1.19	<0.1	0.05	
072591 Soil	6.7	3.9	0.07	16.4	0.010	<1	0.31	0.017	0.02	<0.1	0.4	0.03	<0.02	14	0.1	0.02	2.5	0.53	<0.1	<0.02	
072592 Soil	16.5	5.8	0.07	30.0	0.003	<1	0.42	0.010	0.04	<0.1	0.2	0.03	0.03	24	0.2	0.04	2.5	0.91	<0.1	<0.02	
072593 Soil	<0.5	1.0	0.01	10.3	0.004	<1	0.07	0.022	0.02	<0.1	0.1	<0.02	<0.02	8	<0.1	<0.02	0.3	0.16	<0.1	<0.02	
072594 Soil	24.7	16.8	0.28	35.9	0.005	<1	1.20	0.005	0.03	<0.1	0.9	0.04	<0.02	20	0.2	0.10	6.8	1.62	<0.1	<0.02	
072595 Soil	6.5	4.5	0.05	19.7	0.006	<1	0.36	0.017	0.02	<0.1	0.2	0.02	<0.02	14	0.1	0.02	2.7	1.26	<0.1	<0.02	
072596 Soil	18.3	20.2	0.37	36.9	0.006	<1	1.50	0.007	0.04	<0.1	1.2	0.05	<0.02	25	0.1	0.06	5.8	1.41	<0.1	0.03	
072597 Soil	17.6	22.2	0.46	19.8	0.003	<1	1.42	0.003	0.03	<0.1	1.3	0.04	<0.02	29	0.2	0.10	5.7	1.23	<0.1	0.05	
072598 Soil	1.8	2.2	0.03	12.9	0.013	<1	0.36	0.028	0.02	<0.1	0.2	<0.02	0.02	9	0.2	<0.02	1.9	0.21	<0.1	<0.02	
072599 Soil	13.2	27.4	0.65	37.4	0.003	<1	2.01	0.006	0.06	<0.1	3.8	0.05	0.06	39	0.4	0.08	5.0	4.87	<0.1	0.20	
072600 Soil	17.1	10.1	0.11	11.8	0.002	<1	0.57	0.003	0.02	<0.1	0.6	0.04	0.03	26	0.3	0.03	3.8	1.48	<0.1	<0.02	
069261 Soil	10.7	11.1	0.27	61.9	<0.001	<1	1.04	0.004	0.10	<0.1	3.8	0.08	0.15	10	0.1	0.04	2.3	1.60	<0.1	0.13	
069262 Soil	16.9	19.8	0.64	38.2	0.001	<1	1.68	0.005	0.05	<0.1	3.0	0.05	0.02	22	0.3	0.05	3.8	0.93	<0.1	0.12	
069263 Soil	16.3	18.7	0.57	36.7	<0.001	<1	1.53	0.005	0.06	<0.1	3.2	0.05	0.03	14	0.3	0.07	3.8	1.05	<0.1	0.15	
069264 Soil	20.3	14.1	0.45	40.0	<0.001	<1	1.22	0.004	0.07	<0.1	3.3	0.05	0.02	12	0.2	0.06	2.7	1.49	<0.1	0.16	
069265 Soil	21.5	14.4	0.52	38.9	<0.001	<1	1.32	0.003	0.06	<0.1	3.4	0.05	<0.02	10	0.3	0.08	3.0	1.31	<0.1	0.15	
069266 Soil	20.3	17.5	0.63	30.3	<0.001	<1	1.40	0.002	0.04	<0.1	2.5	0.03	<0.02	11	0.2	0.07	3.5	0.96	<0.1	0.11	
069267 Soil	20.0	21.1	0.62	29.3	0.001	<1	1.46	0.002	0.04	<0.1	1.7	0.03	<0.02	7	<0.1	0.04	3.8	0.85	<0.1	0.07	
069268 Soil	25.7	19.0	0.64	40.3	0.002	<1	1.47	0.005	0.05	<0.1	3.0	0.09	<0.02	24	0.3	0.04	3.7	1.16	<0.1	0.09	
069269 Soil	29.9	21.4	0.76	35.7	0.002	<1	1.69	0.002	0.04	<0.1	1.6	0.03	<0.02	7	<0.1	0.06	4.4	0.98	<0.1	0.08	
069270 Soil	10.2	33.4	0.91	23.9	0.001	<1	2.36	0.006	0.03	<0.1	2.3	0.05	<0.02	9	0.2	0.07	6.8	3.61	<0.1	0.12	



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**Project:** NA-16176  
**Report Date:** September 21, 2016

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	2
071021	Soil	0.10	4.3	0.3	<0.05	5.0	2.15	57.5	0.03	<1	0.3	88.5	<10	<2
071022	Soil	0.06	4.2	0.4	<0.05	4.3	3.46	33.3	0.04	<1	0.2	77.4	<10	<2
071023	Soil	0.36	6.5	0.4	<0.05	1.0	3.56	45.1	<0.02	<1	0.3	41.9	<10	<2
071024	Soil	0.32	5.4	0.4	<0.05	0.9	1.96	60.5	<0.02	<1	0.2	60.6	<10	<2
071025	Soil	0.22	6.2	0.3	<0.05	4.1	10.73	19.1	0.03	<1	0.6	49.7	<10	<2
071026	Soil	0.05	3.8	0.2	<0.05	2.9	1.86	41.2	<0.02	<1	0.2	83.3	<10	<2
071027	Soil	0.18	5.8	0.4	<0.05	4.1	9.09	21.3	0.04	<1	0.4	60.2	<10	<2
071028	Soil	0.10	4.2	0.2	<0.05	3.6	4.83	35.6	0.03	<1	0.4	68.5	<10	<2
071029	Soil	0.18	5.2	0.3	<0.05	4.4	3.38	22.1	0.02	<1	0.3	50.4	<10	<2
071030	Soil	0.09	3.0	0.2	<0.05	2.4	3.12	36.9	0.03	<1	0.5	78.7	<10	<2
072591	Soil	0.28	2.2	0.2	<0.05	0.4	0.73	13.0	<0.02	<1	<0.1	3.4	<10	<2
072592	Soil	0.11	6.6	0.4	<0.05	0.2	0.93	31.3	<0.02	<1	0.2	4.7	<10	<2
072593	Soil	<0.02	0.6	0.1	<0.05	<0.1	0.10	0.8	<0.02	<1	<0.1	0.2	<10	<2
072594	Soil	0.45	4.7	0.4	<0.05	0.6	1.57	46.9	<0.02	<1	0.2	21.7	<10	<2
072595	Soil	0.11	3.9	0.2	<0.05	0.2	0.56	12.1	<0.02	<1	0.1	2.9	<10	<2
072596	Soil	0.51	7.2	0.3	<0.05	1.5	1.72	35.7	<0.02	<1	0.3	34.0	<10	<2
072597	Soil	0.23	5.3	0.2	<0.05	1.2	1.64	33.6	0.02	<1	0.2	36.7	<10	<2
072598	Soil	0.13	0.9	0.2	<0.05	0.4	0.52	3.6	<0.02	<1	<0.1	1.2	<10	<2
072599	Soil	0.20	6.0	0.4	<0.05	6.8	9.58	24.5	0.03	<1	0.6	59.5	<10	<2
072600	Soil	0.09	3.6	0.2	<0.05	0.8	1.33	35.6	<0.02	<1	0.1	7.0	<10	<2
069261	Soil	<0.02	5.2	0.5	<0.05	7.4	7.73	22.0	0.05	<1	0.8	11.5	<10	<2
069262	Soil	0.04	2.8	0.4	<0.05	8.6	10.97	33.9	0.02	<1	0.5	49.3	<10	<2
069263	Soil	<0.02	3.0	0.3	<0.05	10.2	9.84	32.7	0.04	<1	0.6	45.4	<10	<2
069264	Soil	<0.02	3.7	0.5	<0.05	12.1	8.66	40.3	0.03	<1	0.6	26.1	<10	<2
069265	Soil	<0.02	3.4	0.4	<0.05	11.2	8.74	40.9	0.03	<1	0.7	31.1	<10	<2
069266	Soil	0.02	2.6	0.3	<0.05	7.3	6.09	37.2	0.02	<1	0.5	37.1	<10	<2
069267	Soil	0.05	3.3	0.3	<0.05	2.3	4.31	39.4	<0.02	<1	0.4	38.7	<10	<2
069268	Soil	0.09	4.5	0.7	<0.05	4.0	8.13	47.6	0.03	<1	0.4	39.9	<10	<2
069269	Soil	0.06	3.6	0.3	<0.05	2.6	3.26	53.8	<0.02	<1	0.5	47.4	<10	<2
069270	Soil	0.06	3.5	0.2	<0.05	4.7	2.62	21.7	0.04	<1	0.4	75.0	<10	<2



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# CERTIFICATE OF ANALYSIS

# WHI16000236.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
069491	Soil	0.31	33.18	35.24	85.0	127	32.9	14.1	369	3.50	11.1	1.2	2.3	15.4	23.2	0.07	1.06	0.40	7	0.25	0.052
069492	Soil	0.40	44.16	46.38	106.4	142	39.2	24.8	962	4.34	8.8	1.6	2.1	20.5	28.0	0.11	0.99	0.49	12	0.30	0.068
069493	Soil	0.32	23.75	29.77	67.8	71	22.5	12.0	668	3.15	4.4	1.3	2.1	7.2	19.3	0.11	0.66	0.29	9	0.23	0.061
069494	Soil	0.27	13.62	14.87	39.4	47	12.3	6.0	407	2.01	2.8	0.7	0.9	0.9	11.8	0.06	0.49	0.22	10	0.13	0.067
069495	Soil	0.40	46.87	42.66	106.2	152	38.5	20.2	1320	4.73	7.0	1.7	1.7	16.5	20.0	0.16	0.44	0.59	12	0.24	0.092
069496	Soil	0.51	43.96	45.07	102.2	163	38.1	23.2	1526	4.59	9.1	2.4	2.0	17.9	16.2	0.14	0.81	0.62	12	0.22	0.081
069497	Soil	0.43	18.88	23.34	65.2	36	23.1	11.6	554	3.37	5.9	0.8	0.9	6.6	4.5	0.08	0.35	0.34	12	0.04	0.074
069498	Soil	0.41	14.98	27.03	61.1	30	21.6	12.0	863	3.65	5.0	0.7	0.6	4.4	13.0	0.08	0.26	0.32	10	0.16	0.140
069499	Soil	0.41	52.88	87.86	156.7	210	40.8	25.8	1374	4.78	319.7	2.2	13.9	16.9	24.5	0.18	0.81	0.60	12	0.25	0.068
069500	Soil	0.40	38.55	41.18	102.8	69	34.4	17.2	746	4.44	36.5	1.7	4.9	9.9	11.8	0.08	0.52	0.54	13	0.10	0.068
070001	Soil	0.39	49.18	47.94	103.7	95	40.7	24.7	675	4.09	18.8	1.4	3.6	17.1	25.3	0.08	1.14	0.55	11	0.37	0.057
070002	Soil	0.43	47.09	42.73	96.1	87	44.6	23.6	650	3.98	17.9	1.3	2.3	16.3	25.2	0.05	0.69	0.53	14	0.37	0.049
070003	Soil	0.46	44.48	42.56	94.7	112	38.1	18.5	515	3.97	14.3	1.4	3.4	14.8	28.7	0.07	0.83	0.55	11	0.46	0.051
070004	Soil	0.40	48.47	40.04	91.5	121	39.7	16.3	347	3.96	13.2	1.6	2.4	14.1	26.9	0.06	0.73	0.52	12	0.41	0.049
070005	Soil	0.37	46.32	37.87	99.3	116	38.8	17.4	401	3.94	11.6	1.4	2.2	14.9	26.6	0.07	0.64	0.50	12	0.39	0.062
070006	Soil	0.40	48.21	38.99	100.3	111	40.1	18.1	486	4.04	11.6	1.5	1.5	15.4	28.6	0.08	0.62	0.50	12	0.47	0.062
070007	Soil	0.34	41.69	36.34	96.6	82	39.2	18.6	462	3.96	9.1	1.3	1.2	16.1	23.9	0.05	0.48	0.47	12	0.30	0.064
070008	Soil	0.38	37.41	33.58	90.1	107	45.7	20.4	905	4.03	87.9	1.0	13.7	12.5	16.0	0.14	0.80	0.43	15	0.40	0.070
070009	Soil	0.38	31.03	26.79	81.5	30	42.0	15.6	423	4.06	11.9	1.1	1.5	12.0	11.4	0.08	0.52	0.38	14	0.10	0.061
070010	Soil	0.37	28.35	27.22	91.7	77	33.3	13.5	411	3.93	9.7	1.4	2.7	10.3	15.4	0.07	0.63	0.42	13	0.16	0.060
070011	Soil	0.31	38.45	24.43	84.4	129	38.6	13.0	315	3.70	58.2	1.9	7.9	9.7	38.5	0.07	0.61	0.36	13	0.44	0.063
070012	Soil	0.33	23.77	27.37	90.0	52	33.7	14.3	334	3.60	15.4	1.5	1.3	10.6	34.7	0.06	0.58	0.38	13	0.40	0.049
070013	Soil	0.30	34.30	26.91	88.9	83	36.7	13.4	298	3.78	16.2	1.4	3.0	10.5	21.3	0.06	0.69	0.40	13	0.31	0.059
070014	Soil	0.63	56.92	70.96	93.8	90	37.1	32.5	1179	4.06	27.2	1.6	2.1	14.5	11.5	0.05	0.93	0.67	13	0.11	0.050
070015	Soil	0.48	58.94	56.48	98.8	95	36.6	28.7	1202	3.88	20.3	1.6	1.5	15.9	12.0	0.07	0.82	0.63	13	0.11	0.048
070016	Soil	0.44	50.85	43.69	97.8	103	43.4	24.7	658	4.46	13.3	1.4	0.8	16.2	17.5	0.05	0.67	0.57	12	0.26	0.056
070017	Soil	0.45	53.79	46.42	94.5	98	40.0	28.8	771	4.14	15.4	1.3	1.9	17.4	22.6	0.07	1.34	0.56	11	0.32	0.055
070018	Soil	0.41	39.59	38.13	84.6	81	37.7	23.3	685	3.94	12.2	1.1	0.7	19.7	22.9	0.06	0.98	0.48	10	0.39	0.047
070019	Soil	0.43	53.24	52.49	93.5	91	40.4	32.0	965	4.06	15.8	1.3	1.3	19.0	20.2	0.06	1.00	0.51	11	0.22	0.044
070020	Soil	0.37	40.59	40.81	83.0	106	37.2	21.4	567	3.87	14.5	1.2	1.3	18.0	50.2	0.06	0.80	0.53	9	1.03	0.057



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**Project:** NA-16176  
**Report Date:** September 21, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
069491	Soil	20.3	14.4	0.52	26.3	0.001	<1	1.25	0.004	0.03	<0.1	3.1	0.03	0.04	26	0.2	0.02	3.1	0.28	<0.1	0.11
069492	Soil	16.1	23.3	0.74	33.4	0.002	<1	1.85	0.005	0.05	<0.1	4.0	0.03	<0.02	15	0.2	0.02	5.0	0.67	<0.1	0.13
069493	Soil	14.3	15.2	0.40	37.3	0.004	<1	1.27	0.009	0.02	<0.1	4.4	0.03	0.04	22	0.3	<0.02	3.3	0.39	<0.1	0.08
069494	Soil	6.7	11.2	0.24	32.9	0.005	<1	0.94	0.011	0.02	<0.1	0.6	0.03	0.05	14	0.1	<0.02	3.2	0.44	<0.1	0.04
069495	Soil	19.5	25.4	0.77	25.4	0.003	<1	2.02	0.005	0.03	<0.1	4.7	0.02	<0.02	19	0.2	0.03	5.1	0.44	<0.1	0.13
069496	Soil	15.8	22.3	0.71	31.8	0.004	<1	1.74	0.005	0.03	<0.1	5.1	0.03	<0.02	24	0.2	0.04	4.7	0.47	<0.1	0.13
069497	Soil	10.1	16.5	0.41	24.4	0.006	<1	1.33	0.006	0.03	<0.1	1.5	0.04	0.03	18	0.3	<0.02	3.8	0.73	<0.1	0.05
069498	Soil	9.0	14.9	0.35	28.5	0.004	<1	1.26	0.005	0.02	<0.1	1.7	0.03	0.04	17	0.3	<0.02	3.7	0.49	<0.1	0.02
069499	Soil	16.7	23.5	0.72	38.7	0.003	<1	1.98	0.004	0.04	<0.1	4.0	0.04	<0.02	24	0.2	0.04	5.1	0.83	<0.1	0.10
069500	Soil	13.7	22.3	0.63	41.1	0.004	<1	1.92	0.004	0.04	<0.1	2.7	0.04	0.03	20	0.3	0.03	5.0	1.02	<0.1	0.09
070001	Soil	15.4	24.0	0.78	21.8	0.001	<1	1.75	0.003	0.04	<0.1	2.3	0.03	<0.02	14	<0.1	0.05	4.7	0.54	<0.1	0.18
070002	Soil	16.5	30.8	0.85	26.9	0.001	<1	1.79	0.003	0.03	<0.1	2.7	0.02	<0.02	16	0.1	0.05	5.0	0.57	<0.1	0.15
070003	Soil	18.5	25.2	0.72	26.2	<0.001	<1	1.72	0.002	0.03	<0.1	3.0	0.03	0.03	26	0.3	0.06	4.4	0.59	<0.1	0.15
070004	Soil	18.7	26.9	0.75	30.7	0.001	<1	1.80	0.003	0.04	<0.1	2.8	0.03	0.03	22	0.3	0.04	4.7	0.77	<0.1	0.16
070005	Soil	21.3	26.7	0.75	29.2	0.002	<1	1.79	0.003	0.04	<0.1	2.7	0.03	<0.02	24	0.2	0.06	4.7	0.63	<0.1	0.18
070006	Soil	22.5	26.6	0.75	30.7	0.001	<1	1.80	0.003	0.04	<0.1	2.9	0.03	<0.02	22	0.2	0.05	4.7	0.63	<0.1	0.16
070007	Soil	22.5	27.0	0.77	28.3	0.002	<1	1.82	0.003	0.04	<0.1	2.6	0.03	<0.02	22	0.1	0.04	4.7	0.63	<0.1	0.13
070008	Soil	21.4	32.4	0.94	55.1	0.002	<1	1.79	0.002	0.03	<0.1	4.6	0.02	<0.02	18	0.2	0.04	4.6	0.47	<0.1	0.09
070009	Soil	25.1	34.3	0.77	25.4	0.004	<1	2.05	0.003	0.03	<0.1	2.2	0.03	<0.02	12	0.2	0.04	4.9	0.44	<0.1	0.11
070010	Soil	23.2	26.9	0.70	39.7	0.002	<1	1.91	0.003	0.03	<0.1	2.4	0.03	<0.02	10	0.2	0.03	5.1	0.55	<0.1	0.14
070011	Soil	22.2	32.3	0.80	30.6	0.003	1	1.75	0.003	0.03	<0.1	2.8	<0.02	0.03	21	0.5	0.03	4.7	0.60	<0.1	0.13
070012	Soil	19.4	29.8	0.73	30.5	0.003	1	1.65	0.003	0.03	<0.1	2.6	0.03	0.02	11	0.2	0.03	4.7	0.54	<0.1	0.12
070013	Soil	21.6	29.7	0.77	30.2	0.003	<1	1.76	0.003	0.03	<0.1	2.9	0.03	<0.02	18	0.2	0.03	4.6	0.63	<0.1	0.11
070014	Soil	21.2	26.9	0.79	41.4	<0.001	<1	2.11	0.005	0.03	<0.1	2.2	0.04	<0.02	13	0.2	0.08	5.3	1.03	<0.1	0.05
070015	Soil	19.5	25.9	0.77	33.5	0.002	<1	1.98	0.007	0.03	<0.1	2.2	0.04	<0.02	11	<0.1	0.10	5.4	0.77	<0.1	0.04
070016	Soil	21.1	27.2	0.86	22.7	0.001	<1	1.96	0.003	0.03	<0.1	2.4	0.02	<0.02	20	0.2	0.07	5.3	0.62	<0.1	0.14
070017	Soil	19.4	24.0	0.74	34.8	0.001	1	1.86	0.003	0.03	<0.1	2.7	0.03	<0.02	22	0.2	0.06	4.8	0.75	<0.1	0.16
070018	Soil	17.8	22.1	0.74	28.8	0.001	<1	1.74	0.002	0.03	<0.1	2.3	0.03	<0.02	14	0.1	0.05	4.4	0.63	<0.1	0.21
070019	Soil	17.7	25.1	0.79	35.9	0.001	<1	1.87	0.003	0.03	<0.1	2.2	0.03	<0.02	17	0.1	0.06	5.0	0.76	<0.1	0.17
070020	Soil	17.5	19.8	0.69	30.3	<0.001	<1	1.60	0.002	0.03	<0.1	2.6	0.03	0.03	20	0.2	0.06	4.2	0.55	<0.1	0.14



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	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
069491	Soil	0.03	2.1	0.2	<0.05	5.3	12.42	41.2	<0.02	<1	0.6	40.3	<10	<2
069492	Soil	0.02	2.8	0.3	<0.05	8.3	13.53	33.0	0.03	<1	0.7	61.2	<10	<2
069493	Soil	0.14	2.9	0.3	<0.05	3.0	16.75	28.9	0.04	<1	0.5	33.7	<10	<2
069494	Soil	0.13	3.0	0.2	<0.05	0.8	2.60	13.4	<0.02	<1	0.2	20.8	<10	<2
069495	Soil	0.07	2.4	0.2	<0.05	5.7	14.18	41.3	0.03	<1	0.6	71.7	<10	<2
069496	Soil	0.05	2.4	0.6	<0.05	8.1	15.91	33.2	0.05	<1	0.6	59.3	<10	<2
069497	Soil	0.24	4.5	0.2	<0.05	1.4	3.31	21.4	0.03	<1	0.4	34.3	<10	<2
069498	Soil	0.17	3.2	0.2	<0.05	0.8	6.15	22.2	0.03	<1	0.4	31.4	<10	<2
069499	Soil	0.06	3.1	0.1	<0.05	4.8	12.59	35.3	0.03	<1	0.6	62.5	<10	<2
069500	Soil	0.15	5.0	0.3	<0.05	3.2	9.71	28.6	0.04	<1	0.7	55.9	<10	<2
070001	Soil	<0.02	1.7	0.2	<0.05	11.0	7.82	30.8	0.02	<1	0.5	65.0	<10	<2
070002	Soil	0.02	2.0	0.2	<0.05	8.5	8.56	32.8	0.02	<1	0.6	62.0	<10	<2
070003	Soil	0.03	2.5	0.3	<0.05	7.4	11.28	35.8	0.03	<1	0.8	56.2	<10	<2
070004	Soil	0.05	3.1	0.4	<0.05	7.3	10.71	34.6	0.03	<1	0.6	55.2	<10	<2
070005	Soil	0.04	2.6	0.3	<0.05	6.8	10.09	40.2	0.03	<1	0.6	56.7	<10	<2
070006	Soil	0.04	2.8	0.5	<0.05	6.6	10.70	43.2	0.02	<1	0.5	57.6	<10	<2
070007	Soil	0.04	2.6	0.2	<0.05	6.5	9.06	44.0	0.02	<1	0.5	60.2	<10	<2
070008	Soil	0.07	2.3	0.3	<0.05	4.0	10.71	42.1	0.03	<1	0.5	60.2	<10	<2
070009	Soil	0.13	3.4	0.2	<0.05	4.5	6.10	54.9	0.02	<1	0.5	64.2	<10	<2
070010	Soil	0.12	4.0	0.3	<0.05	4.8	7.00	44.6	0.03	<1	0.5	57.0	<10	<2
070011	Soil	0.13	3.0	0.1	<0.05	3.9	8.46	40.5	<0.02	<1	0.3	59.6	<10	<2
070012	Soil	0.14	3.3	0.1	<0.05	4.8	7.47	38.6	0.02	<1	0.5	51.8	<10	<2
070013	Soil	0.11	3.4	0.2	<0.05	4.3	8.69	41.2	<0.02	<1	0.4	56.7	<10	<2
070014	Soil	0.02	3.7	0.3	<0.05	2.9	6.17	39.4	0.02	<1	0.5	62.0	<10	<2
070015	Soil	0.03	3.3	0.3	<0.05	4.3	6.33	37.2	0.02	<1	0.4	64.5	<10	<2
070016	Soil	<0.02	1.7	0.2	<0.05	9.2	8.01	39.3	<0.02	<1	0.4	71.0	<10	<2
070017	Soil	<0.02	2.3	0.2	<0.05	8.9	9.58	37.1	0.04	<1	0.5	63.8	<10	<2
070018	Soil	<0.02	2.1	0.2	<0.05	12.4	8.41	34.8	0.02	<1	0.5	59.3	<10	<2
070019	Soil	0.03	2.3	0.2	<0.05	11.0	8.27	33.5	<0.02	<1	0.5	70.9	<10	<2
070020	Soil	0.04	2.3	0.2	<0.05	8.4	9.18	34.8	0.03	<1	0.5	56.4	<10	<2



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# CERTIFICATE OF ANALYSIS

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Method Analyte	Unit	MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
069341	Soil		0.55	31.61	22.27	60.6	133	24.7	10.8	666	3.73	32.2	0.9	1.7	3.3	3.9	0.04	0.48	0.45	17	0.01	0.096
069342	Soil		1.26	21.15	19.25	40.8	66	13.6	6.9	562	2.78	22.8	1.1	1.0	1.0	6.9	0.08	0.54	0.44	24	0.04	0.093
069343	Soil		0.60	54.23	31.28	112.7	59	50.1	19.1	467	4.14	24.4	3.1	8.6	7.3	7.8	0.10	0.76	0.53	17	0.13	0.043
069344	Soil		0.61	35.59	16.24	96.1	26	43.0	13.9	650	4.55	22.0	0.9	1.4	7.5	3.9	0.03	0.44	0.58	17	0.04	0.052
069345	Soil		0.42	36.96	19.35	115.8	59	46.3	14.6	600	4.56	13.7	1.9	1.2	8.0	8.1	0.05	0.27	0.53	17	0.12	0.050
069346	Soil		0.29	25.42	18.23	105.8	23	43.2	13.6	601	4.62	11.0	1.3	0.7	8.1	5.7	0.02	0.17	0.42	17	0.03	0.043
069347	Soil		0.28	22.75	15.85	107.1	49	44.4	12.9	520	4.52	9.2	1.3	0.4	8.5	7.4	0.02	0.13	0.43	16	0.06	0.047
069348	Soil		0.55	51.68	52.89	103.4	170	39.7	24.2	1133	4.51	6.7	1.7	1.8	19.2	23.6	0.07	0.81	0.50	9	0.32	0.050
069349	Soil		0.42	49.86	41.43	106.5	112	39.7	24.2	672	4.52	8.3	2.2	1.1	15.8	15.9	0.07	0.79	0.66	12	0.17	0.053
069350	Soil		0.44	52.31	40.39	118.4	101	45.5	27.1	721	4.79	7.3	1.6	2.0	23.8	24.7	0.05	1.28	0.60	10	0.34	0.051
069351	Soil		0.51	54.81	51.06	114.7	150	42.6	27.8	1029	4.66	11.0	2.5	4.6	20.5	24.9	0.10	1.50	0.68	11	0.30	0.068
069352	Soil		0.39	46.13	42.20	113.9	94	42.5	24.9	835	4.39	8.1	1.8	3.0	19.4	21.9	0.09	1.26	0.53	10	0.28	0.061
069353	Soil		0.48	60.41	92.84	164.0	221	45.9	28.1	1176	5.12	187.8	2.6	15.0	21.6	21.0	0.15	1.31	0.72	11	0.27	0.102
069354	Soil		0.36	52.96	65.11	136.1	190	43.5	24.8	815	4.71	190.4	1.8	14.7	19.8	19.4	0.11	0.96	0.57	11	0.25	0.089
069355	Soil		0.42	53.47	52.08	126.2	146	42.6	24.9	943	4.71	56.0	1.8	7.8	19.9	26.2	0.13	0.89	0.60	11	0.27	0.090
069356	Soil		0.43	55.91	41.65	108.9	103	42.2	24.3	896	4.66	21.9	1.7	2.8	19.7	28.7	0.10	0.54	0.61	11	0.29	0.086
069357	Soil		0.32	41.06	33.84	105.7	74	39.4	18.9	750	4.36	5.7	1.3	0.8	17.0	23.8	0.09	0.31	0.50	11	0.27	0.090
069358	Soil		0.34	41.86	33.51	106.1	70	40.1	19.2	785	4.43	5.9	1.3	1.3	16.7	23.9	0.08	0.30	0.50	11	0.27	0.089
069359	Soil		0.34	42.81	37.00	102.9	72	39.5	19.7	790	4.35	6.0	1.2	2.4	16.0	22.2	0.10	0.39	0.51	10	0.27	0.079
069360	Soil		0.37	43.35	36.99	107.8	92	38.6	20.1	799	4.38	6.2	1.3	2.0	17.2	19.9	0.09	0.34	0.53	11	0.26	0.088
072731	Soil		0.63	29.99	29.04	60.0	154	18.8	8.7	413	2.51	121.6	1.3	6.1	1.1	5.4	0.19	0.47	0.37	15	0.06	0.071
072732	Soil		0.88	47.23	47.31	126.2	314	38.2	35.0	1577	4.18	24.9	2.3	5.0	5.6	14.5	0.57	0.40	0.43	17	0.34	0.068
072733	Soil		0.62	21.10	16.71	50.6	83	12.9	6.2	214	2.82	26.8	0.7	10.2	1.7	6.4	0.11	1.22	0.33	14	0.06	0.043
072734	Soil		0.82	32.31	72.18	107.2	224	26.1	18.0	534	4.65	84.1	0.9	2.9	7.5	5.6	0.16	0.95	0.60	19	0.03	0.035
072735	Soil		0.38	30.27	19.60	82.9	20	34.7	11.8	422	3.93	20.9	0.9	4.5	9.6	3.4	0.01	0.38	0.35	13	0.02	0.024
072736	Soil		0.36	12.66	14.09	63.4	65	23.8	9.0	438	2.79	14.2	0.5	2.6	6.8	9.5	0.10	0.17	0.24	11	0.12	0.040
072737	Soil		0.38	16.89	18.10	68.6	83	28.4	8.9	367	3.65	18.8	0.6	1.5	7.8	6.1	0.04	0.28	0.33	12	0.06	0.032
072738	Soil		0.50	36.69	28.72	93.5	121	34.2	16.3	770	3.79	42.8	1.1	4.6	3.6	6.7	0.28	0.85	0.43	12	0.08	0.107
072739	Soil		0.56	42.79	40.92	118.8	114	43.1	19.7	631	4.35	76.6	1.5	6.7	6.5	10.1	0.25	0.84	0.48	12	0.19	0.050
072740	Soil		0.69	45.47	56.26	108.0	104	41.7	36.6	2482	4.45	52.7	1.6	6.0	5.9	8.5	0.22	1.01	0.54	12	0.13	0.083



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**Project:** NA-16176  
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# CERTIFICATE OF ANALYSIS

# WHI16000236.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
069341	Soil	21.9	25.7	0.56	33.2	0.002	<1	1.75	0.008	0.04	<0.1	0.9	0.05	0.03	28	0.4	0.06	5.7	1.22	<0.1	0.05
069342	Soil	20.8	21.8	0.26	52.6	0.005	<1	1.44	0.009	0.05	<0.1	0.7	0.11	0.04	27	0.4	0.07	6.4	1.91	<0.1	0.05
069343	Soil	13.5	35.9	1.17	23.3	0.001	<1	2.58	0.005	0.02	<0.1	2.5	0.03	0.10	6	0.3	0.05	7.1	1.66	<0.1	0.10
069344	Soil	25.8	34.9	1.21	30.8	0.002	<1	2.68	0.005	0.04	<0.1	1.8	0.03	<0.02	9	0.2	0.08	6.9	1.13	<0.1	0.09
069345	Soil	18.5	37.2	1.18	52.7	0.001	<1	2.80	0.008	0.05	<0.1	2.4	0.04	<0.02	7	0.2	0.06	7.4	1.58	<0.1	0.14
069346	Soil	23.0	38.0	1.10	47.0	0.001	<1	2.73	0.010	0.07	<0.1	2.1	0.03	<0.02	8	0.2	0.05	7.9	1.19	<0.1	0.14
069347	Soil	20.6	38.0	1.16	50.6	0.001	<1	2.82	0.010	0.06	<0.1	2.1	0.04	<0.02	7	<0.1	0.04	7.7	1.32	<0.1	0.15
069348	Soil	13.2	19.7	0.66	26.7	0.001	<1	1.71	0.004	0.04	<0.1	4.0	0.03	0.04	60	0.4	<0.02	4.2	0.94	<0.1	0.14
069349	Soil	16.9	23.4	0.74	27.4	0.003	<1	1.90	0.006	0.03	<0.1	3.5	0.04	<0.02	33	0.3	0.04	5.0	0.72	<0.1	0.12
069350	Soil	11.3	25.8	0.90	26.1	0.001	<1	2.20	0.003	0.04	<0.1	3.0	0.04	<0.02	21	0.1	<0.02	5.5	1.46	<0.1	0.17
069351	Soil	17.4	25.4	0.77	41.1	0.002	<1	2.11	0.005	0.05	<0.1	4.8	0.06	<0.02	26	0.3	0.04	5.3	1.59	<0.1	0.19
069352	Soil	13.7	23.8	0.79	29.3	0.002	<1	1.95	0.003	0.03	<0.1	3.2	0.04	<0.02	15	<0.1	<0.02	5.1	0.92	<0.1	0.14
069353	Soil	23.2	24.2	0.77	27.0	0.003	<1	1.96	0.003	0.03	<0.1	4.3	0.04	<0.02	28	0.2	0.04	5.0	1.08	<0.1	0.13
069354	Soil	26.3	25.6	0.80	25.4	0.003	<1	2.00	0.004	0.03	<0.1	3.2	0.03	<0.02	7	0.2	0.04	5.2	0.82	<0.1	0.17
069355	Soil	24.9	25.8	0.80	24.9	0.003	<1	2.06	0.003	0.03	<0.1	3.3	0.03	<0.02	18	0.1	0.04	5.3	0.75	<0.1	0.16
069356	Soil	25.0	25.3	0.83	27.9	0.003	<1	2.10	0.003	0.04	<0.1	3.2	0.03	<0.02	9	0.2	0.04	5.4	0.81	<0.1	0.18
069357	Soil	25.1	24.8	0.79	23.6	0.003	<1	1.98	0.003	0.03	<0.1	2.9	0.02	<0.02	5	<0.1	0.03	5.2	0.52	<0.1	0.15
069358	Soil	25.6	25.4	0.80	23.4	0.003	<1	2.02	0.003	0.03	<0.1	2.9	0.02	<0.02	7	<0.1	0.03	5.3	0.53	<0.1	0.16
069359	Soil	17.0	23.6	0.76	24.0	0.002	<1	1.92	0.002	0.02	<0.1	2.9	0.03	<0.02	12	0.1	0.03	5.0	0.52	<0.1	0.14
069360	Soil	18.3	24.1	0.76	25.9	0.002	<1	2.00	0.002	0.03	<0.1	3.1	0.03	<0.02	12	<0.1	0.03	5.3	0.64	<0.1	0.16
072731	Soil	14.1	12.0	0.24	31.8	0.005	<1	1.00	0.010	0.03	<0.1	0.6	0.05	0.03	20	0.3	0.11	4.1	1.86	<0.1	0.02
072732	Soil	11.2	24.7	0.46	47.5	0.005	1	1.53	0.004	0.04	<0.1	1.5	0.04	0.04	32	0.3	0.09	4.9	6.13	<0.1	0.03
072733	Soil	10.0	13.2	0.25	30.9	0.011	<1	0.90	0.011	0.03	<0.1	0.6	0.03	0.02	20	0.3	0.09	4.7	1.89	<0.1	<0.02
072734	Soil	25.7	23.8	0.48	31.4	0.011	<1	1.69	0.003	0.03	<0.1	1.5	0.03	<0.02	17	0.2	0.12	6.2	3.15	<0.1	0.03
072735	Soil	32.7	26.4	0.78	22.7	0.002	<1	1.84	0.003	0.03	<0.1	1.7	0.03	<0.02	11	<0.1	0.07	5.1	0.65	<0.1	0.02
072736	Soil	26.3	20.0	0.55	31.2	0.002	1	1.40	0.005	0.05	<0.1	1.1	0.03	<0.02	24	0.1	0.04	4.5	0.68	<0.1	0.03
072737	Soil	29.2	23.3	0.64	28.1	0.002	<1	1.64	0.004	0.04	<0.1	1.3	0.03	<0.02	11	<0.1	0.05	5.2	1.18	<0.1	0.04
072738	Soil	6.9	23.8	0.57	35.8	0.002	<1	1.45	0.003	0.03	<0.1	1.4	0.03	0.05	32	0.2	0.11	4.9	2.21	<0.1	0.09
072739	Soil	8.2	26.9	0.77	25.9	0.002	<1	1.89	0.004	0.03	<0.1	1.8	0.03	0.03	15	0.2	0.10	5.3	1.99	<0.1	0.08
072740	Soil	7.6	26.5	0.70	47.4	0.002	<1	1.75	0.005	0.03	<0.1	1.8	0.05	0.04	15	0.4	0.12	5.1	2.83	<0.1	0.15



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**Project:** NA-16176  
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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
069341	Soil	0.19	4.6	0.2	<0.05	2.1	1.87	42.4	<0.02	<1	0.2	42.1	<10	<2
069342	Soil	0.36	7.3	0.7	<0.05	0.7	2.43	40.3	0.03	<1	0.3	21.2	<10	<2
069343	Soil	0.04	2.2	0.1	<0.05	3.4	4.13	26.9	0.03	<1	0.4	90.0	<10	<2
069344	Soil	0.09	4.9	0.2	<0.05	3.1	2.44	48.7	0.02	<1	0.3	94.4	<10	<2
069345	Soil	0.07	6.3	0.2	<0.05	4.2	3.38	35.1	0.02	<1	0.4	98.1	<10	<2
069346	Soil	0.07	6.2	0.2	<0.05	4.4	2.61	44.1	<0.02	<1	0.3	94.9	<10	<2
069347	Soil	0.03	5.8	0.2	<0.05	4.1	2.17	39.1	<0.02	<1	0.2	94.5	<10	<2
069348	Soil	0.03	3.2	0.3	<0.05	5.6	11.66	26.3	0.04	<1	0.8	54.9	<10	<2
069349	Soil	0.06	3.6	0.2	<0.05	5.3	11.14	33.0	0.03	<1	0.7	65.6	<10	<2
069350	Soil	0.08	3.0	0.2	<0.05	9.9	8.33	22.6	0.03	<1	0.9	79.1	<10	<2
069351	Soil	0.14	4.2	0.3	<0.05	7.8	15.15	33.5	0.04	<1	0.9	70.3	<10	<2
069352	Soil	<0.02	2.7	0.2	<0.05	9.2	9.48	28.1	0.03	<1	0.7	70.4	<10	<2
069353	Soil	0.02	2.9	0.2	<0.05	11.9	14.79	48.5	0.04	<1	0.8	69.0	<10	<2
069354	Soil	0.06	2.5	0.1	<0.05	14.4	11.94	55.2	0.03	<1	0.7	71.4	<10	<2
069355	Soil	0.10	2.6	0.2	<0.05	12.2	12.23	52.8	0.04	<1	0.8	72.1	<10	<2
069356	Soil	0.03	2.8	0.2	<0.05	13.6	11.92	53.3	0.03	<1	0.7	79.1	<10	<2
069357	Soil	0.02	2.3	0.2	<0.05	11.5	10.05	52.3	0.02	<1	0.4	75.8	<10	<2
069358	Soil	0.08	2.4	0.3	<0.05	11.7	10.20	53.7	0.02	<1	0.6	73.6	<10	<2
069359	Soil	0.02	1.9	0.1	<0.05	9.4	10.63	36.2	0.03	<1	0.6	70.6	<10	<2
069360	Soil	<0.02	2.4	0.2	<0.05	9.6	11.77	38.6	0.03	<1	0.8	72.5	<10	<2
072731	Soil	0.26	5.0	0.3	<0.05	0.7	3.22	28.6	<0.02	<1	0.2	17.1	<10	<2
072732	Soil	0.48	7.1	1.1	<0.05	1.2	4.19	23.1	<0.02	<1	0.7	46.6	<10	<2
072733	Soil	0.32	4.0	0.2	<0.05	0.4	1.22	19.5	<0.02	<1	0.2	16.1	<10	<2
072734	Soil	0.82	6.2	0.4	<0.05	1.8	2.28	50.3	0.03	<1	0.3	38.6	<10	<2
072735	Soil	0.06	3.3	0.1	<0.05	1.6	2.37	61.8	<0.02	<1	0.3	62.3	<10	<2
072736	Soil	0.13	5.8	0.2	<0.05	1.3	1.45	48.8	<0.02	<1	0.2	44.8	<10	<2
072737	Soil	0.10	5.2	0.2	<0.05	1.4	1.70	55.7	<0.02	<1	0.2	51.7	<10	<2
072738	Soil	0.08	5.0	0.4	<0.05	2.7	1.70	12.7	0.02	<1	0.2	39.7	<10	<2
072739	Soil	0.08	4.1	0.1	<0.05	3.1	2.58	15.6	<0.02	<1	0.4	58.8	<10	<2
072740	Soil	0.07	4.8	0.3	<0.05	3.8	2.36	14.8	0.03	<1	0.3	51.7	<10	<2



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
072741	Soil	0.28	11.88	12.85	39.7	151	16.7	5.7	203	1.79	12.4	0.5	3.2	1.8	4.2	0.04	0.27	0.22	8	0.07	0.034
072742	Soil	0.31	35.06	4.75	23.4	184	4.8	6.5	696	0.54	1.8	1.8	1.0	<0.1	14.4	0.26	0.08	0.07	7	0.26	0.042
072743	Soil	0.79	17.05	20.47	37.6	44	7.6	3.9	393	2.47	26.9	0.5	2.4	2.7	5.2	0.05	1.24	0.42	18	0.03	0.048
072744	Soil	0.69	57.88	43.87	117.3	161	47.1	25.1	1022	4.84	29.1	1.9	6.8	8.4	7.2	0.11	1.21	0.55	12	0.12	0.055
072745	Soil	0.54	25.99	29.05	67.0	161	15.8	13.8	1123	2.05	12.0	0.8	1.2	0.6	14.5	0.50	0.42	0.30	9	0.44	0.135
072746	Soil	0.66	56.31	53.04	102.7	139	41.3	24.8	958	4.35	52.5	2.3	11.4	13.3	6.7	0.08	1.09	0.49	11	0.13	0.035
072747	Soil	0.42	46.73	48.20	89.7	169	35.3	22.9	893	3.68	43.3	2.2	8.7	14.1	7.5	0.11	0.53	0.35	9	0.19	0.047
072748	Soil	0.64	56.07	58.64	100.7	139	40.5	30.3	1089	3.93	59.5	2.1	16.3	14.5	7.2	0.14	0.95	0.46	10	0.13	0.050
072749	Soil	0.58	46.74	50.26	96.0	128	38.3	28.7	969	3.40	85.1	1.9	20.5	16.0	7.0	0.16	1.03	0.37	9	0.13	0.046
072750	Soil	0.53	29.39	37.21	95.4	701	34.3	13.8	295	4.10	144.2	0.9	9.0	10.0	4.8	0.28	0.77	0.62	13	<0.01	0.023
071001	Soil	0.58	27.13	19.00	101.4	553	27.8	11.3	288	3.26	50.8	0.8	1.2	5.7	9.8	0.59	0.57	0.40	16	0.02	0.045
071002	Soil	0.42	35.61	30.40	98.6	89	40.5	14.9	335	4.26	98.5	0.9	6.2	10.3	4.7	0.17	0.58	0.68	13	<0.01	0.019
071003	Soil	0.50	13.77	16.25	63.9	156	12.3	7.7	403	3.19	67.5	0.6	4.5	3.3	6.1	0.33	0.49	0.36	21	0.02	0.045
071004	Soil	0.74	39.55	46.35	106.0	317	34.8	16.7	266	4.05	77.8	1.1	11.1	8.2	11.4	0.08	1.32	0.48	11	<0.01	0.035
071005	Soil	0.50	30.17	20.19	84.2	157	33.4	12.5	279	4.55	35.6	0.9	4.6	8.3	5.1	0.07	0.52	0.40	14	<0.01	0.025
071006	Soil	0.45	27.70	20.60	81.9	62	34.7	13.4	344	4.10	45.0	1.1	3.1	8.7	8.7	0.04	0.72	0.39	13	0.11	0.020
071007	Soil	0.51	26.73	23.12	95.8	77	37.0	12.8	339	5.01	39.9	0.7	2.6	9.8	5.2	0.04	0.51	0.52	16	0.02	0.031
071008	Soil	0.53	10.57	16.02	38.9	285	10.9	5.7	291	2.72	27.1	0.5	1.0	0.8	4.7	0.11	0.39	0.37	23	0.02	0.047
071009	Soil	0.58	57.52	31.06	116.9	160	40.8	18.3	478	4.57	21.0	6.3	5.7	5.6	15.0	0.07	0.77	0.58	12	0.59	0.045
071010	Soil	0.47	20.61	8.01	118.3	39	50.0	16.1	317	4.69	11.4	1.8	0.7	12.8	5.4	0.10	0.12	0.36	19	0.08	0.030
071011	Soil	0.66	89.07	38.71	110.9	297	40.3	23.8	745	4.08	42.6	9.2	3.8	3.2	23.8	0.27	0.57	0.67	13	0.92	0.071
071012	Soil	0.56	47.75	29.69	140.1	78	39.9	18.8	473	4.36	16.2	7.3	1.5	3.9	15.5	0.17	0.35	0.44	18	0.40	0.076
071013	Soil	0.51	38.86	25.49	120.2	16	43.4	18.9	770	5.04	27.4	2.0	1.9	7.5	3.8	0.11	0.47	0.61	16	0.06	0.042
071014	Soil	0.33	38.99	18.52	110.6	5	48.2	16.7	474	4.92	13.4	0.7	0.9	8.7	3.2	0.10	0.19	0.41	16	0.05	0.030
071015	Soil	0.54	17.01	23.26	72.0	145	20.7	8.8	283	3.29	38.0	0.7	4.1	7.8	4.4	0.11	0.34	0.37	20	0.01	0.021
071016	Soil	0.63	11.88	11.99	43.0	35	11.3	5.1	162	1.94	16.1	0.4	2.4	1.8	3.9	0.04	0.26	0.33	22	0.01	0.023
071017	Soil	0.17	12.11	6.14	16.8	138	5.7	3.2	107	0.86	3.1	0.9	1.7	0.4	9.6	0.03	0.10	0.10	6	0.30	0.032
071018	Soil	0.76	40.44	27.78	117.9	57	45.9	18.1	975	4.92	19.6	3.8	0.6	6.9	8.7	0.13	0.56	0.70	15	0.18	0.046
071019	Soil	0.57	20.83	18.91	87.6	36	35.4	11.8	389	4.41	30.4	0.8	2.6	6.9	3.0	0.08	0.31	0.49	19	0.02	0.028
071020	Soil	0.79	81.82	27.13	125.6	182	49.0	22.4	823	4.64	33.5	19.8	4.7	6.2	16.3	0.11	0.59	0.63	15	0.54	0.064



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**Project:** NA-16176  
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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
072741	Soil	5.0	12.1	0.34	17.4	0.005	<1	0.82	0.015	0.03	<0.1	0.8	<0.02	<0.02	9	0.1	0.04	3.1	1.21	<0.1	<0.02
072742	Soil	2.8	3.0	0.06	36.1	0.011	<1	0.63	0.029	0.02	<0.1	0.3	0.03	0.04	19	0.3	<0.02	2.6	1.43	<0.1	<0.02
072743	Soil	12.1	11.0	0.15	24.7	0.012	1	0.54	0.009	0.03	<0.1	0.6	0.03	<0.02	7	0.2	0.13	5.1	1.60	<0.1	<0.02
072744	Soil	20.4	28.3	0.73	21.6	0.002	<1	1.79	0.004	0.03	<0.1	2.8	0.03	<0.02	12	0.3	0.11	5.1	1.89	<0.1	0.07
072745	Soil	5.5	12.0	0.27	43.2	0.003	1	0.75	0.009	0.06	<0.1	0.5	0.03	0.09	29	0.3	0.06	2.6	1.25	<0.1	0.02
072746	Soil	19.4	23.8	0.64	28.6	0.001	<1	1.63	0.004	0.03	<0.1	2.9	0.03	<0.02	22	<0.1	0.13	4.5	2.43	<0.1	0.09
072747	Soil	18.5	18.6	0.43	24.5	0.001	<1	1.12	0.003	0.02	<0.1	2.6	<0.02	<0.02	18	0.2	0.07	2.9	1.52	<0.1	0.12
072748	Soil	17.6	18.8	0.54	34.0	0.002	<1	1.40	0.004	0.03	<0.1	2.4	0.03	<0.02	15	0.3	0.08	3.8	1.97	<0.1	0.07
072749	Soil	23.8	17.1	0.42	24.7	0.001	<1	1.08	0.003	0.02	0.2	2.1	0.02	<0.02	11	0.2	0.11	3.0	1.52	<0.1	0.10
072750	Soil	27.8	22.2	0.46	31.4	0.003	<1	1.57	0.003	0.03	0.5	1.8	0.03	<0.02	29	0.3	0.07	4.0	1.03	<0.1	0.06
071001	Soil	24.2	13.8	0.16	46.6	0.009	<1	0.93	0.009	0.04	0.2	1.2	0.04	<0.02	21	0.1	0.03	4.4	2.15	<0.1	0.02
071002	Soil	29.4	27.1	0.63	43.7	<0.001	1	1.94	0.006	0.05	0.1	1.9	0.04	<0.02	26	0.2	0.07	5.1	1.27	<0.1	0.03
071003	Soil	20.3	15.1	0.14	43.3	0.005	<1	1.02	0.009	0.04	0.1	0.9	0.05	<0.02	15	0.2	0.06	5.7	2.37	<0.1	<0.02
071004	Soil	20.9	14.8	0.16	23.6	<0.001	<1	0.71	0.004	0.02	0.1	1.9	0.04	<0.02	18	0.3	0.10	2.3	2.94	<0.1	0.02
071005	Soil	23.9	26.2	0.56	21.5	0.002	<1	1.69	0.003	0.03	<0.1	1.5	0.02	<0.02	18	0.2	0.07	4.9	1.55	<0.1	0.04
071006	Soil	27.7	24.4	0.60	40.3	0.001	<1	1.68	0.005	0.04	<0.1	1.8	0.03	<0.02	7	<0.1	0.09	4.9	1.97	<0.1	0.05
071007	Soil	33.9	31.3	0.75	23.1	0.002	<1	2.15	0.006	0.04	<0.1	1.9	0.03	<0.02	14	<0.1	0.10	6.5	2.35	<0.1	0.03
071008	Soil	21.6	11.6	0.20	42.5	0.007	<1	0.94	0.007	0.03	0.1	0.5	0.03	<0.02	22	0.1	0.08	5.6	0.87	<0.1	<0.02
071009	Soil	15.0	30.3	0.77	33.0	0.002	1	2.07	0.008	0.03	<0.1	3.2	0.03	0.03	19	0.7	0.11	5.3	10.69	<0.1	0.15
071010	Soil	18.6	37.9	0.93	24.6	0.003	<1	2.45	0.009	0.03	<0.1	2.1	<0.02	<0.02	7	0.1	0.10	7.6	4.42	<0.1	0.06
071011	Soil	10.8	31.3	0.75	36.0	0.002	1	2.05	0.009	0.03	<0.1	2.6	0.04	0.05	29	0.7	0.10	5.9	10.67	<0.1	0.13
071012	Soil	16.4	33.6	0.85	40.2	0.006	<1	2.29	0.005	0.03	<0.1	2.4	0.03	0.03	19	0.3	0.08	6.8	6.93	<0.1	0.06
071013	Soil	26.5	35.2	0.93	33.7	<0.001	<1	2.45	0.007	0.03	<0.1	2.5	<0.02	<0.02	5	<0.1	0.11	7.3	2.84	<0.1	0.12
071014	Soil	22.6	36.8	1.15	16.4	0.001	1	2.73	0.005	0.03	<0.1	2.6	0.04	<0.02	<5	<0.1	0.06	7.4	2.47	<0.1	0.05
071015	Soil	29.9	19.7	0.40	46.0	0.006	1	1.45	0.004	0.03	0.1	1.3	0.05	<0.02	20	<0.1	0.07	5.6	2.31	<0.1	<0.02
071016	Soil	17.7	12.1	0.25	19.1	0.011	1	0.83	0.010	0.03	0.1	0.7	0.04	<0.02	10	0.1	0.05	5.0	2.81	<0.1	<0.02
071017	Soil	4.6	5.8	0.13	14.7	0.009	1	0.80	0.033	0.02	<0.1	0.6	<0.02	0.02	17	<0.1	<0.02	2.4	0.75	<0.1	0.02
071018	Soil	21.2	35.5	0.96	35.4	0.002	<1	2.46	0.006	0.03	<0.1	3.2	0.04	<0.02	16	0.2	0.12	6.8	4.29	<0.1	0.09
071019	Soil	25.1	30.3	0.80	20.1	0.002	1	2.09	0.004	0.03	<0.1	1.7	0.05	<0.02	17	<0.1	0.09	7.6	2.40	<0.1	0.05
071020	Soil	19.5	34.6	0.92	48.3	0.002	<1	2.47	0.006	0.04	<0.1	3.5	0.04	0.03	39	0.6	0.10	6.7	5.46	<0.1	0.17



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**Project:** NA-16176  
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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
072741	Soil	0.12	2.3	0.2	<0.05	0.5	0.84	9.0	<0.02	<1	0.2	24.2	<10	<2
072742	Soil	0.27	1.8	0.2	<0.05	0.3	2.46	5.2	<0.02	<1	0.2	3.9	<10	<2
072743	Soil	0.35	6.7	0.4	<0.05	0.2	1.09	22.7	<0.02	<1	0.1	8.1	<10	<2
072744	Soil	0.06	3.2	1.1	<0.05	3.2	5.45	38.7	0.02	<1	0.8	54.5	<10	<2
072745	Soil	0.17	4.4	0.3	<0.05	0.8	1.64	10.7	<0.02	<1	0.1	16.6	<10	<2
072746	Soil	0.04	2.7	0.4	<0.05	5.2	7.65	38.6	0.02	<1	0.6	49.2	<10	<2
072747	Soil	0.03	1.8	0.5	<0.05	6.4	8.94	38.0	<0.02	<1	0.4	31.5	<10	<2
072748	Soil	0.03	2.1	0.3	<0.05	5.4	7.64	35.6	0.03	<1	0.5	40.3	<10	<2
072749	Soil	<0.02	1.9	0.1	<0.05	10.0	7.54	49.3	<0.02	<1	0.5	32.3	<10	<2
072750	Soil	0.17	5.2	0.3	<0.05	3.7	2.19	51.9	0.03	<1	0.4	38.1	<10	<2
071001	Soil	0.47	7.9	0.3	<0.05	0.9	1.91	43.9	<0.02	<1	0.3	13.8	<10	<2
071002	Soil	0.04	4.8	0.3	<0.05	2.2	2.03	54.6	0.03	<1	0.3	51.0	<10	<2
071003	Soil	0.45	9.2	0.5	<0.05	0.4	1.48	37.7	0.02	<1	0.3	15.3	<10	<2
071004	Soil	0.06	4.8	0.3	<0.05	0.4	2.15	38.9	0.03	<1	0.2	14.2	<10	<2
071005	Soil	0.12	4.0	0.1	<0.05	2.3	1.74	43.8	<0.02	<1	0.2	43.4	<10	<2
071006	Soil	0.08	6.0	0.2	<0.05	2.3	2.13	49.8	<0.02	<1	0.3	51.6	<10	<2
071007	Soil	0.09	6.3	1.1	<0.05	3.2	2.09	60.8	<0.02	<1	0.6	61.4	<10	<2
071008	Soil	0.32	4.4	0.6	<0.05	<0.1	1.48	40.3	<0.02	<1	0.1	12.8	<10	<2
071009	Soil	0.12	4.2	0.2	<0.05	5.2	6.10	25.7	0.03	<1	0.4	58.7	<10	<2
071010	Soil	0.13	3.8	0.2	<0.05	2.9	2.42	33.3	0.03	<1	0.4	76.0	<10	<2
071011	Soil	0.18	5.2	0.4	<0.05	4.6	7.34	19.1	0.03	<1	0.5	60.2	<10	<2
071012	Soil	0.38	4.4	0.3	<0.05	2.7	6.36	31.8	0.02	<1	0.3	65.8	<10	<2
071013	Soil	0.05	3.1	0.2	<0.05	3.9	3.32	47.7	0.04	<1	0.4	71.2	<10	<2
071014	Soil	0.02	3.0	0.2	<0.05	3.0	2.24	44.9	0.02	<1	0.3	79.1	<10	<2
071015	Soil	0.61	7.8	0.5	<0.05	1.0	2.81	57.9	0.03	<1	0.3	35.6	<10	<2
071016	Soil	0.40	4.4	0.6	<0.05	0.2	1.31	33.3	<0.02	<1	0.1	17.0	<10	<2
071017	Soil	0.26	1.7	0.2	<0.05	0.6	1.66	8.5	<0.02	<1	0.1	10.8	<10	<2
071018	Soil	0.11	3.5	0.2	<0.05	3.0	4.33	40.1	0.03	<1	0.4	80.2	<10	<2
071019	Soil	0.24	4.6	0.3	<0.05	1.7	1.71	47.6	0.02	<1	0.2	63.8	<10	<2
071020	Soil	0.14	4.1	0.2	<0.05	5.9	9.03	34.7	0.03	<1	0.5	75.1	<10	<2



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# CERTIFICATE OF ANALYSIS

# WHI16000236.1

Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
MDL		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
072671	Soil	1.32	74.56	62.33	108.8	215	59.6	32.2	1908	5.29	44.9	1.6	7.0	12.0	11.2	0.12	2.70	0.79	9	0.37	0.051
072672	Soil	0.88	98.26	56.61	112.2	260	52.6	28.2	1507	4.88	35.9	2.1	5.8	9.1	9.6	0.15	1.77	0.75	12	0.29	0.063
072673	Soil	0.86	53.33	52.95	108.0	225	40.7	16.1	958	5.30	107.5	2.4	13.4	11.8	8.5	0.08	1.27	0.75	13	0.08	0.040
072674	Soil	0.79	15.21	17.95	63.2	66	20.4	7.5	310	4.21	18.2	0.6	1.9	8.4	4.4	0.10	0.32	0.44	26	0.03	0.033
072675	Soil	1.07	34.12	18.88	66.8	138	20.6	8.3	372	8.07	19.9	0.8	1.6	7.1	3.1	0.05	0.59	0.63	31	0.01	0.087
072676	Soil	0.97	71.70	43.58	124.1	125	57.2	20.8	711	5.44	29.8	2.7	11.2	10.4	6.4	0.07	0.96	0.68	16	0.17	0.058
072677	Soil	0.90	78.55	46.74	129.6	134	56.8	25.0	869	5.79	29.2	3.7	4.2	8.8	6.4	0.09	0.86	0.61	19	0.13	0.078
072678	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.
072679	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.
072680	Soil	0.79	45.20	35.91	93.2	37	45.4	22.2	1189	4.60	21.2	2.0	1.8	4.3	5.0	0.05	0.52	0.56	17	0.09	0.083
072681	Soil	1.05	51.82	35.04	90.3	71	44.0	22.8	1368	4.56	32.4	1.6	1.6	3.3	6.2	0.07	0.83	0.60	16	0.08	0.103
072682	Soil	0.70	68.01	39.24	120.4	107	42.9	19.2	741	4.20	24.7	3.1	3.4	5.4	13.0	0.18	0.69	0.55	13	0.50	0.083
072683	Soil	0.74	41.59	24.49	93.5	89	40.5	16.1	623	4.70	24.4	1.3	1.0	6.5	3.6	0.10	0.55	0.48	18	0.02	0.030
072684	Soil	1.94	183.45	166.62	187.1	421	69.2	34.7	487	8.63	148.8	8.3	16.1	31.5	19.8	0.06	2.72	3.20	15	0.02	0.102
072685	Soil	1.03	85.34	83.77	120.7	610	51.0	52.7	1656	4.17	102.7	2.3	25.2	18.0	8.7	0.26	1.08	0.45	13	0.18	0.063
072686	Soil	0.60	48.54	54.35	85.4	344	35.6	21.2	673	3.38	128.9	1.6	9.7	9.8	12.7	0.15	0.56	0.31	10	0.40	0.049
072687	Soil	1.22	62.36	62.72	113.3	214	43.2	25.5	871	3.71	190.4	2.1	31.4	10.8	9.1	0.23	1.18	0.46	9	0.29	0.051
072688	Soil	1.26	93.35	117.40	125.8	290	49.2	58.4	3417	6.71	81.7	3.6	11.2	8.3	3.4	0.20	1.74	1.39	15	0.03	0.095
072689	Soil	0.47	20.42	7.90	469.1	175	10.8	8.6	891	0.68	12.3	0.3	2.3	0.5	65.6	2.84	0.26	0.11	<2	2.97	0.113
072690	Soil	0.72	51.89	48.72	106.5	98	40.6	23.4	624	4.32	60.8	1.9	8.0	8.7	3.4	0.09	0.87	0.49	12	0.06	0.036
072691	Soil	1.15	27.23	32.70	89.1	155	22.2	7.6	388	7.21	10.7	0.9	<0.2	8.7	5.7	0.13	0.42	0.59	29	0.06	0.091
072692	Soil	0.62	30.33	27.84	84.7	113	21.3	8.7	293	4.65	13.9	0.9	1.9	8.7	4.8	0.06	0.38	0.49	20	0.05	0.056
072693	Soil	0.78	44.45	75.01	129.9	310	34.3	19.2	611	3.89	737.8	2.1	18.0	6.6	14.5	0.19	1.02	0.48	13	0.02	0.046
072694	Soil	0.78	14.52	20.17	42.0	130	11.0	6.2	213	2.24	38.5	0.7	1.9	3.2	5.9	0.10	0.36	0.40	23	0.05	0.030
072695	Soil	0.59	15.74	11.42	70.5	56	22.9	8.1	242	3.47	25.1	0.5	2.0	7.2	4.0	0.06	0.32	0.27	14	0.03	0.030
072696	Soil	0.50	53.41	26.98	96.4	195	48.6	19.8	501	3.46	54.4	4.7	2.8	6.8	12.3	0.07	0.28	0.40	14	0.10	0.055
072697	Soil	0.43	43.66	24.78	64.9	211	29.2	8.3	249	2.73	30.6	3.1	5.2	4.1	14.8	0.06	0.24	0.35	14	0.15	0.055
072698	Soil	0.44	62.24	27.03	28.1	654	39.1	6.8	271	1.45	19.6	9.7	3.5	0.9	23.7	0.09	0.36	0.18	9	0.50	0.129
072699	Soil	1.00	37.87	21.94	115.1	178	15.9	10.8	254	8.24	89.8	0.7	4.9	9.6	3.1	0.18	0.57	0.80	37	<0.01	0.094
072700	Soil	0.48	41.22	17.50	84.1	233	25.9	8.6	208	2.65	21.4	1.3	1.0	4.6	15.2	0.49	0.24	0.30	17	0.27	0.042



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**Project:** NA-16176  
**Report Date:** September 21, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000236.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
072671	Soil	23.2	22.4	0.65	29.5	<0.001	<1	1.59	0.005	0.03	<0.1	5.8	0.05	<0.02	43	0.3	0.11	4.2	2.09	<0.1	0.14
072672	Soil	21.2	24.9	0.73	26.6	0.001	1	1.85	0.009	0.03	<0.1	4.9	0.04	<0.02	26	0.3	0.11	5.1	2.70	<0.1	0.06
072673	Soil	23.5	28.6	0.80	14.7	<0.001	<1	1.98	0.003	0.04	<0.1	2.3	0.04	<0.02	28	<0.1	0.20	5.2	2.79	<0.1	0.05
072674	Soil	29.5	22.0	0.43	25.8	0.007	<1	1.51	0.002	0.03	0.1	1.4	0.07	<0.02	26	0.2	0.08	7.1	1.41	<0.1	0.02
072675	Soil	22.3	30.0	0.40	11.7	0.019	<1	1.44	0.003	0.03	0.2	1.3	0.07	0.02	26	0.3	0.12	12.2	2.34	<0.1	<0.02
072676	Soil	22.0	37.4	1.03	18.6	0.001	<1	2.60	0.005	0.04	<0.1	3.7	0.03	<0.02	18	0.1	0.10	7.1	3.42	<0.1	0.14
072677	Soil	28.5	43.7	1.27	16.3	0.001	2	2.96	0.005	0.03	<0.1	2.9	0.02	<0.02	20	<0.1	0.07	8.1	2.88	<0.1	0.10
072678	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.
072679	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.
072680	Soil	15.0	33.2	1.15	19.3	0.001	<1	2.52	0.006	0.03	<0.1	2.3	0.03	0.03	15	0.2	0.07	7.0	1.41	<0.1	0.22
072681	Soil	14.2	32.1	1.08	20.4	0.001	<1	2.31	0.006	0.04	<0.1	1.8	0.03	0.03	14	0.1	0.13	6.3	2.11	<0.1	0.20
072682	Soil	10.7	30.4	0.87	26.5	<0.001	<1	2.18	0.006	0.04	<0.1	2.9	0.03	0.06	35	0.2	0.07	6.1	1.90	<0.1	0.31
072683	Soil	25.2	34.8	1.00	20.8	0.002	<1	2.45	0.007	0.02	<0.1	2.0	0.03	<0.02	11	0.2	0.07	7.0	1.18	<0.1	0.11
072684	Soil	19.4	29.8	0.93	23.5	0.001	1	2.62	0.010	0.12	<0.1	4.1	0.08	0.08	13	0.2	0.75	7.3	8.03	0.1	0.13
072685	Soil	18.3	29.1	0.68	51.3	0.003	<1	1.81	0.008	0.03	<0.1	3.0	0.06	<0.02	52	0.2	0.08	5.0	3.07	<0.1	0.08
072686	Soil	15.1	24.3	0.64	22.6	<0.001	1	1.57	0.005	0.04	<0.1	2.0	0.02	0.03	18	0.2	0.07	4.3	1.21	<0.1	0.14
072687	Soil	19.2	25.7	0.58	27.6	0.001	<1	1.51	0.005	0.04	<0.1	2.3	0.03	0.03	19	0.2	0.10	3.8	1.44	<0.1	0.15
072688	Soil	19.4	30.4	0.73	26.5	0.002	<1	2.06	0.004	0.04	<0.1	3.0	0.07	<0.02	34	0.5	0.39	5.7	3.88	<0.1	0.08
072689	Soil	0.9	4.8	0.14	45.8	0.002	6	0.22	0.003	0.05	<0.1	0.6	<0.02	0.23	69	0.3	0.03	0.5	0.38	<0.1	0.05
072690	Soil	24.8	26.2	0.70	21.6	0.001	<1	1.75	0.004	0.03	<0.1	1.9	0.04	<0.02	18	0.2	0.10	4.6	1.65	<0.1	0.04
072691	Soil	22.9	33.8	0.46	18.5	0.009	1	1.82	0.004	0.03	<0.1	1.4	0.04	0.02	26	0.2	0.08	9.9	4.06	<0.1	0.03
072692	Soil	23.8	21.6	0.40	16.0	0.004	<1	1.20	0.005	0.04	<0.1	1.2	0.03	<0.02	16	<0.1	0.08	7.3	2.44	<0.1	<0.02
072693	Soil	28.4	16.5	0.24	32.4	0.003	<1	1.01	0.004	0.03	<0.1	1.4	0.04	0.02	19	<0.1	0.07	3.2	2.41	<0.1	<0.02
072694	Soil	37.0	12.4	0.15	37.3	0.010	<1	0.75	0.004	0.05	<0.1	0.8	0.04	<0.02	7	<0.1	0.07	6.0	2.16	<0.1	<0.02
072695	Soil	30.9	19.2	0.49	21.4	0.002	<1	1.39	0.003	0.04	<0.1	1.1	0.02	<0.02	<5	<0.1	0.04	5.6	1.44	<0.1	<0.02
072696	Soil	18.9	22.2	0.53	106.0	0.003	<1	2.05	0.009	0.06	<0.1	2.0	0.05	0.03	26	0.5	0.05	5.2	3.48	<0.1	0.10
072697	Soil	23.3	18.2	0.35	73.2	0.002	<1	1.44	0.009	0.05	<0.1	1.3	0.04	<0.02	19	0.2	0.06	4.9	2.46	<0.1	0.04
072698	Soil	20.2	12.7	0.18	46.8	0.010	1	1.54	0.017	0.04	<0.1	1.7	0.08	0.16	110	1.4	0.03	2.8	5.08	<0.1	0.04
072699	Soil	34.1	33.7	0.30	33.6	0.010	<1	1.64	0.005	0.04	0.2	1.3	0.04	<0.02	13	0.2	0.19	12.5	3.98	<0.1	0.03
072700	Soil	17.0	19.0	0.38	32.6	0.007	<1	1.28	0.007	0.03	<0.1	1.4	0.02	0.04	23	0.3	0.06	5.5	6.13	<0.1	0.04



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**Project:** NA-16176  
**Report Date:** September 21, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
072671	Soil	<0.02	2.0	0.4	<0.05	7.8	13.68	44.5	0.05	<1	0.5	45.2	<10	<2
072672	Soil	0.02	2.1	0.3	<0.05	3.5	14.79	38.9	0.04	<1	0.8	54.8	<10	<2
072673	Soil	<0.02	3.3	0.2	<0.05	2.5	2.72	44.5	0.03	<1	0.4	57.8	<10	<2
072674	Soil	0.67	4.6	0.5	<0.05	1.5	2.08	56.6	<0.02	<1	0.2	37.1	<10	<2
072675	Soil	1.08	5.6	0.5	<0.05	1.8	1.96	42.7	0.03	<1	0.2	26.6	<10	<2
072676	Soil	0.06	2.6	1.0	<0.05	5.9	6.11	37.5	<0.02	<1	0.5	84.9	<10	<2
072677	Soil	0.02	2.3	0.5	<0.05	4.0	4.32	49.3	0.02	<1	0.3	100.1	<10	<2
072678	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.
072679	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.
072680	Soil	0.07	2.2	0.2	<0.05	6.0	4.22	27.6	0.03	<1	0.4	87.9	<10	<2
072681	Soil	0.08	3.7	0.9	<0.05	5.7	3.11	26.4	0.02	<1	0.5	82.1	<10	<2
072682	Soil	0.08	3.4	4.1	<0.05	10.8	8.69	17.9	0.03	<1	0.5	65.5	<10	<2
072683	Soil	0.12	2.8	0.6	<0.05	3.5	2.43	44.1	0.03	<1	0.4	78.5	<10	<2
072684	Soil	<0.02	4.5	5.2	<0.05	12.3	4.06	36.8	0.08	<1	2.0	78.0	<10	<2
072685	Soil	0.07	2.3	2.4	<0.05	5.8	9.15	38.9	0.04	<1	0.7	54.3	<10	<2
072686	Soil	0.04	2.6	22.5	<0.05	6.2	6.75	31.0	0.05	<1	0.5	45.6	<10	<2
072687	Soil	0.07	2.9	5.6	<0.05	5.9	7.20	39.0	0.03	<1	0.5	41.1	<10	<2
072688	Soil	0.08	4.1	4.1	<0.05	3.6	6.61	36.8	0.03	<1	0.7	57.2	<10	2
072689	Soil	0.09	1.6	0.4	<0.05	2.0	1.06	2.0	<0.02	<1	<0.1	3.3	<10	<2
072690	Soil	0.04	3.0	10.3	<0.05	2.2	4.03	48.2	0.03	<1	0.6	50.4	<10	<2
072691	Soil	0.68	6.5	1.0	<0.05	1.5	1.46	43.7	0.03	<1	0.2	38.1	<10	<2
072692	Soil	0.22	5.6	9.7	<0.05	0.9	1.64	45.1	0.02	<1	0.2	27.2	<10	<2
072693	Soil	0.15	4.5	1.6	<0.05	0.8	3.09	56.5	0.02	<1	0.4	17.5	<10	<2
072694	Soil	0.51	11.1	6.7	<0.05	0.2	2.09	70.0	0.02	<1	<0.1	9.9	<10	<2
072695	Soil	0.18	5.0	0.6	<0.05	0.8	1.55	57.8	<0.02	<1	0.1	36.7	<10	<2
072696	Soil	0.37	6.5	1.1	<0.05	3.7	5.65	35.8	0.03	<1	0.8	54.4	<10	<2
072697	Soil	0.26	7.1	0.7	<0.05	1.3	4.36	42.7	0.02	<1	0.5	32.9	<10	<2
072698	Soil	0.52	3.9	4.7	<0.05	1.6	17.92	18.7	0.02	<1	0.9	18.4	<10	<2
072699	Soil	0.94	5.8	1.9	<0.05	2.2	1.76	64.5	0.03	<1	0.3	22.9	<10	<2
072700	Soil	0.42	4.6	3.9	<0.05	2.1	3.90	29.0	<0.02	<1	0.3	31.3	<10	<2



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# CERTIFICATE OF ANALYSIS

# WHI16000236.1

Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
069141	Soil	0.51	53.17	56.19	101.2	192	42.6	24.7	715	4.31	8.7	1.7	2.3	17.2	36.1	0.09	1.01	0.54	7	0.45	0.054
069142	Soil	0.58	45.67	54.02	98.9	139	44.1	24.7	1149	4.14	6.3	1.9	1.8	14.3	29.2	0.12	0.53	0.46	8	0.37	0.052
069143	Soil	0.45	46.52	50.41	107.5	122	42.0	24.0	599	4.18	12.2	1.6	2.6	19.4	75.9	0.08	1.13	0.47	8	1.37	0.061
069144	Soil	0.63	47.68	51.57	96.7	147	40.8	25.9	742	4.02	9.0	1.8	2.0	20.2	38.6	0.07	0.65	0.45	8	0.57	0.055
069145	Soil	0.57	47.62	48.59	96.9	138	43.6	25.5	512	4.11	11.5	1.9	2.5	20.4	53.1	0.06	1.51	0.48	6	0.95	0.054
069146	Soil	0.50	36.21	43.37	83.7	164	37.1	19.4	341	3.57	5.8	1.8	1.4	20.1	159.0	0.07	0.60	0.40	6	3.49	0.042
069147	Soil	0.39	36.40	39.34	89.6	152	36.9	16.1	281	3.72	6.1	1.6	1.0	15.7	36.2	0.06	0.56	0.43	7	0.56	0.041
069148	Soil	0.60	40.34	49.78	95.3	141	38.5	18.8	440	3.78	9.4	1.6	1.4	17.5	27.3	0.09	0.83	0.46	7	0.46	0.052
069149	Soil	0.58	45.87	58.84	104.9	103	40.1	27.5	802	4.15	11.6	1.6	0.9	21.2	26.2	0.08	0.68	0.58	10	0.31	0.059
069150	Soil	0.49	62.28	53.70	108.6	90	40.4	31.2	861	4.15	12.0	1.4	0.9	26.6	20.0	0.06	0.56	0.68	11	0.22	0.042
070031	Soil	0.61	18.58	16.24	65.8	17	26.4	9.7	210	3.98	84.9	0.8	2.7	8.0	4.3	0.09	0.61	0.44	20	0.02	0.045
070032	Soil	0.39	43.65	44.47	63.1	124	44.6	35.4	540	3.37	66.4	2.9	8.2	17.6	13.2	0.07	0.49	0.49	11	0.16	0.057
070033	Soil	1.48	24.72	22.29	42.0	98	27.1	14.3	669	3.21	55.3	1.4	3.5	14.1	31.7	0.07	0.84	0.28	5	0.70	0.051
070034	Soil	0.97	46.37	34.66	88.2	142	46.6	26.0	632	4.61	106.7	1.4	17.6	12.9	20.4	0.10	0.55	0.35	31	0.31	0.061
070035	Soil	1.23	43.12	33.14	81.5	135	41.4	23.4	497	4.26	110.2	1.9	5.0	14.8	159.3	0.08	0.90	0.36	12	5.14	0.059
070036	Soil	1.17	65.50	37.97	95.8	134	59.0	41.6	884	5.91	69.2	2.1	2.6	10.3	104.4	0.08	0.56	0.36	38	3.00	0.079
070037	Soil	0.53	36.98	29.94	79.1	102	40.4	19.5	423	3.68	75.9	1.9	2.7	13.8	98.3	0.06	0.70	0.36	7	2.43	0.040
070038	Soil	0.63	50.61	36.32	78.1	190	51.0	28.4	1106	4.24	75.1	1.9	8.4	15.2	28.8	0.08	0.71	0.37	33	0.45	0.048
070039	Soil	0.71	15.75	20.08	37.9	33	25.0	13.0	440	2.25	18.7	0.7	0.4	4.4	17.3	0.06	0.24	0.22	27	0.24	0.062
070040	Soil	1.16	36.96	84.63	91.7	151	40.5	22.2	831	3.40	35.2	1.3	4.3	12.9	7.3	0.06	0.34	0.29	6	0.05	0.045
070041	Soil	0.74	56.17	38.15	113.5	129	46.7	22.5	501	4.50	17.5	1.6	1.9	17.9	27.7	0.06	0.70	0.48	9	0.44	0.050
070042	Soil	0.69	41.13	35.26	80.4	145	33.6	15.9	488	3.46	17.0	1.7	2.1	8.2	40.8	0.10	0.49	0.36	9	0.75	0.063
070043	Soil	0.46	30.96	28.79	89.3	66	29.8	15.6	479	3.30	16.7	1.2	1.9	7.9	21.9	0.15	0.45	0.34	10	0.29	0.061
070044	Soil	2.41	21.87	11.70	60.8	87	40.0	14.6	336	3.41	2.2	0.5	<0.2	2.6	4.7	0.10	0.19	0.32	32	0.02	0.088
070045	Soil	2.53	36.69	8.75	67.7	63	46.3	16.4	359	3.87	2.0	0.5	<0.2	3.4	4.7	0.09	0.20	0.43	36	0.02	0.095
070046	Soil	2.70	136.43	75.61	89.2	324	119.2	33.1	2067	6.79	5.8	0.7	39.9	3.2	11.3	0.23	0.43	0.28	71	0.26	0.212
070047	Soil	0.57	21.43	26.68	76.2	44	54.3	20.8	992	3.68	14.0	0.7	31.6	3.7	10.5	0.17	0.33	0.25	25	0.19	0.107
070048	Soil	0.39	43.58	29.10	91.5	68	86.3	27.5	1273	4.22	3.5	0.4	4.8	8.9	15.6	0.22	0.25	0.19	34	0.58	0.118
070049	Soil	0.32	13.75	13.13	69.6	23	34.8	12.9	594	2.33	2.5	0.4	0.4	4.7	14.8	0.18	0.12	0.15	14	0.39	0.118
070050	Soil	0.28	36.01	18.98	81.0	61	53.0	16.3	368	3.47	6.3	0.5	5.5	8.6	11.6	0.11	0.21	0.23	22	0.33	0.099



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**Project:** NA-16176  
**Report Date:** September 21, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000236.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
069141	Soil	18.0	18.5	0.62	26.1	<0.001	<1	1.42	0.003	0.03	<0.1	3.8	0.05	0.05	44	0.2	0.05	3.6	0.59	<0.1	0.13
069142	Soil	17.1	20.1	0.65	30.1	<0.001	2	1.43	0.003	0.04	<0.1	3.0	0.04	0.04	34	0.2	0.02	3.7	0.49	<0.1	0.18
069143	Soil	15.9	19.1	0.64	26.8	<0.001	<1	1.51	0.002	0.04	<0.1	2.7	0.03	0.04	16	0.2	0.02	3.8	0.77	<0.1	0.18
069144	Soil	21.4	20.3	0.68	32.5	<0.001	1	1.62	0.003	0.04	<0.1	2.8	0.04	<0.02	28	<0.1	0.03	3.8	0.83	<0.1	0.14
069145	Soil	31.4	18.7	0.63	27.4	0.002	1	1.42	0.003	0.04	<0.1	2.6	0.04	<0.02	31	0.2	0.02	3.6	0.98	<0.1	0.17
069146	Soil	23.7	14.0	0.53	27.3	<0.001	2	1.16	0.003	0.04	<0.1	2.4	0.04	0.02	39	0.2	<0.02	2.8	1.14	<0.1	0.15
069147	Soil	30.1	16.3	0.58	31.4	<0.001	1	1.34	0.003	0.03	<0.1	3.0	0.03	0.04	44	0.2	0.02	3.2	0.65	<0.1	0.14
069148	Soil	29.1	18.4	0.58	25.3	0.001	1	1.32	0.003	0.03	<0.1	2.6	0.03	0.02	36	0.1	0.02	3.4	0.64	<0.1	0.13
069149	Soil	25.2	22.7	0.72	29.8	0.001	<1	1.70	0.003	0.04	<0.1	2.6	0.03	<0.02	24	<0.1	0.05	4.3	0.78	<0.1	0.15
069150	Soil	18.8	25.9	0.81	28.3	0.001	<1	1.90	0.003	0.04	<0.1	2.0	0.03	<0.02	11	<0.1	0.07	5.0	0.89	<0.1	0.20
070031	Soil	30.9	22.7	0.52	23.2	0.005	<1	1.69	0.002	0.04	0.1	1.2	0.06	<0.02	18	0.2	0.04	5.8	1.11	<0.1	0.02
070032	Soil	21.7	18.4	0.69	33.3	0.002	<1	1.82	0.004	0.04	<0.1	1.9	0.05	<0.02	19	0.1	0.05	4.0	1.05	<0.1	0.03
070033	Soil	18.4	11.2	0.47	42.7	0.001	1	1.32	0.006	0.04	<0.1	1.6	0.06	<0.02	13	<0.1	0.03	2.7	0.64	<0.1	<0.02
070034	Soil	18.9	51.2	1.34	29.6	0.002	<1	2.25	0.003	0.04	<0.1	4.7	0.04	<0.02	23	<0.1	0.07	5.4	0.63	<0.1	0.08
070035	Soil	8.8	24.1	0.71	31.8	0.001	<1	1.43	0.004	0.04	<0.1	2.9	0.05	0.09	36	0.4	0.07	3.5	0.65	<0.1	0.14
070036	Soil	8.7	65.5	1.32	38.8	0.002	<1	2.29	0.005	0.05	<0.1	6.6	0.04	0.09	25	0.3	0.08	5.3	0.69	<0.1	0.17
070037	Soil	9.6	16.7	0.61	20.9	<0.001	<1	1.18	0.003	0.03	<0.1	1.9	<0.02	0.05	18	<0.1	0.11	3.0	0.42	<0.1	0.23
070038	Soil	16.8	60.6	1.30	53.7	0.002	<1	2.43	0.005	0.05	<0.1	7.3	0.03	<0.02	13	0.1	0.04	5.3	1.76	<0.1	0.06
070039	Soil	14.9	41.9	0.70	32.2	0.006	1	1.59	0.009	0.04	<0.1	1.7	0.04	0.04	37	<0.1	0.03	4.3	0.75	<0.1	<0.02
070040	Soil	25.0	21.0	0.47	29.3	<0.001	<1	1.72	0.003	0.04	<0.1	1.1	0.03	<0.02	20	<0.1	0.03	3.3	0.94	<0.1	0.05
070041	Soil	20.1	22.8	0.73	30.3	0.001	<1	1.78	0.004	0.04	<0.1	2.6	0.03	<0.02	20	<0.1	0.06	4.1	0.56	<0.1	0.14
070042	Soil	15.4	18.2	0.50	42.4	0.002	1	1.57	0.011	0.03	<0.1	2.3	0.04	0.03	37	0.3	0.06	3.5	0.51	<0.1	0.14
070043	Soil	14.9	21.0	0.57	31.3	0.002	<1	1.63	0.008	0.03	<0.1	1.9	0.03	0.03	23	0.2	0.04	4.1	0.42	<0.1	0.10
070044	Soil	20.3	50.3	1.33	27.3	0.009	<1	2.59	0.010	0.03	<0.1	1.6	0.04	0.05	32	0.3	0.02	8.5	0.94	<0.1	0.04
070045	Soil	23.9	57.0	1.56	26.4	0.009	<1	2.77	0.007	0.03	<0.1	1.9	0.05	0.05	29	0.1	0.03	9.1	1.11	<0.1	0.04
070046	Soil	31.7	223.6	1.94	62.9	0.010	3	3.48	0.005	0.02	<0.1	7.0	0.02	0.06	37	0.2	0.05	11.2	0.88	0.1	0.02
070047	Soil	17.9	53.6	0.64	106.8	0.007	<1	1.64	0.008	0.03	<0.1	5.1	0.05	0.06	18	0.1	0.04	4.4	0.80	<0.1	0.05
070048	Soil	26.9	91.2	1.49	88.6	0.005	<1	1.99	0.004	0.04	<0.1	10.7	<0.02	<0.02	18	<0.1	0.03	5.0	1.08	<0.1	0.03
070049	Soil	19.7	20.3	0.57	54.9	0.006	<1	1.21	0.009	0.03	<0.1	5.2	0.03	0.05	24	<0.1	0.05	3.0	0.73	<0.1	<0.02
070050	Soil	30.1	47.9	1.11	52.3	0.006	<1	1.72	0.004	0.03	<0.1	5.5	<0.02	<0.02	11	<0.1	0.04	4.5	0.58	<0.1	0.04



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**Project:** NA-16176  
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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
069141	Soil	0.03	2.9	1.1	<0.05	5.6	15.68	37.0	0.05	<1	0.6	48.6	<10	<2
069142	Soil	<0.02	3.0	3.6	<0.05	6.9	12.27	35.8	0.04	<1	0.6	50.3	<10	<2
069143	Soil	0.02	2.5	1.1	<0.05	10.5	10.54	32.1	0.03	<1	0.5	49.5	<10	<2
069144	Soil	0.05	3.2	7.7	<0.05	9.8	12.43	43.5	0.03	<1	0.8	53.1	<10	<2
069145	Soil	<0.02	2.8	2.1	<0.05	13.3	11.33	60.0	0.02	<1	0.6	46.1	<10	<2
069146	Soil	<0.02	3.0	4.9	<0.05	12.7	10.21	46.2	0.02	<1	0.4	41.1	<10	<2
069147	Soil	0.04	2.9	1.0	<0.05	6.7	13.89	57.1	0.03	<1	0.7	44.6	<10	<2
069148	Soil	0.03	2.5	8.5	<0.05	8.1	11.75	57.5	0.02	<1	0.4	45.8	<10	<2
069149	Soil	<0.02	2.6	1.1	<0.05	9.0	10.32	50.0	0.02	<1	0.6	59.8	<10	<2
069150	Soil	<0.02	2.4	3.0	<0.05	13.6	6.95	36.5	<0.02	<1	0.6	69.9	15	<2
070031	Soil	0.52	7.8	0.7	<0.05	0.9	2.85	61.1	<0.02	<1	0.3	35.9	<10	<2
070032	Soil	0.09	4.8	5.5	<0.05	1.8	5.48	45.3	0.03	<1	0.7	34.3	<10	<2
070033	Soil	0.04	3.6	2.2	<0.05	2.5	7.25	37.4	<0.02	<1	0.6	20.5	<10	<2
070034	Soil	0.03	2.8	5.6	<0.05	6.1	9.09	36.7	0.02	<1	0.3	69.9	<10	<2
070035	Soil	<0.02	2.4	1.5	<0.05	11.4	7.73	17.7	0.02	<1	0.3	51.5	<10	<2
070036	Soil	<0.02	2.6	4.3	<0.05	12.8	10.09	18.1	0.03	<1	0.5	84.0	<10	<2
070037	Soil	<0.02	1.8	0.7	<0.05	14.4	6.43	18.2	0.02	<1	0.4	45.7	<10	<2
070038	Soil	0.02	3.8	9.0	<0.05	5.3	9.60	32.9	0.03	<1	0.7	51.0	<10	<2
070039	Soil	0.26	4.5	3.5	<0.05	1.0	3.19	32.5	<0.02	<1	0.3	25.8	<10	<2
070040	Soil	0.03	4.9	35.7	<0.05	3.0	3.43	49.6	0.04	<1	0.5	25.9	<10	<2
070041	Soil	<0.02	2.4	1.9	<0.05	10.6	8.54	38.5	0.02	<1	0.5	54.7	<10	<2
070042	Soil	0.16	3.5	5.6	<0.05	4.3	10.02	29.1	0.03	<1	0.5	35.5	<10	<2
070043	Soil	0.13	3.7	0.9	<0.05	4.0	7.25	29.8	0.03	<1	0.5	39.4	<10	<2
070044	Soil	0.46	5.0	6.8	<0.05	2.2	2.04	39.8	0.02	<1	0.4	67.0	<10	<2
070045	Soil	0.45	5.2	0.5	<0.05	1.6	2.27	46.6	<0.02	<1	0.3	80.7	<10	<2
070046	Soil	0.33	4.2	55.5	<0.05	0.8	6.37	64.5	0.07	<1	0.8	97.0	<10	<2
070047	Soil	0.27	4.8	1.3	<0.05	1.9	9.73	38.6	0.03	<1	0.7	40.1	<10	<2
070048	Soil	0.15	3.6	3.0	<0.05	1.0	12.57	54.0	0.03	<1	0.8	64.1	<10	<2
070049	Soil	0.23	4.8	1.2	<0.05	0.8	11.66	39.4	0.03	<1	0.6	29.1	<10	<2
070050	Soil	0.15	3.0	4.2	<0.05	1.4	8.86	58.1	0.03	<1	0.5	55.1	<10	<2



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# CERTIFICATE OF ANALYSIS

# WHI16000236.1

Method Analyte	Unit	MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
069281	Soil		0.77	47.16	31.29	97.8	119	44.9	21.6	331	4.39	62.4	2.1	0.9	15.1	159.7	0.07	0.84	0.46	8	4.77	0.056
069282	Soil		0.63	44.04	35.62	92.4	115	44.2	20.5	424	4.14	40.2	1.9	2.0	15.1	102.4	0.06	0.70	0.45	8	2.75	0.045
069283	Soil		0.59	51.78	34.14	93.8	110	52.0	28.8	905	4.50	81.6	2.2	8.9	13.3	21.6	0.09	0.96	0.40	28	0.20	0.047
069284	Soil		0.55	22.70	23.23	59.2	65	28.5	12.4	562	2.66	14.2	1.3	1.5	4.2	41.3	0.12	0.25	0.23	40	0.30	0.079
069285	Soil		0.38	28.55	42.11	108.2	26	45.0	27.2	450	3.34	121.3	1.1	1.8	10.8	7.7	0.23	0.39	0.31	9	0.05	0.052
069286	Soil		0.57	32.99	55.40	96.4	89	24.6	12.6	502	3.24	890.2	1.1	40.5	7.1	6.6	0.34	1.04	0.58	15	0.02	0.061
069287	Soil		1.19	46.08	44.97	96.0	209	42.4	24.6	882	4.09	48.9	1.9	4.7	15.6	32.7	0.13	0.62	0.43	11	0.66	0.052
069288	Soil		0.44	14.98	36.48	40.2	109	14.8	9.7	309	2.43	11.1	0.9	2.7	4.0	5.5	0.05	0.61	0.23	8	0.03	0.077
069289	Soil		0.38	17.58	9.16	49.1	74	34.2	11.2	283	2.40	0.6	0.3	1.5	2.4	3.3	0.10	0.05	0.21	18	0.05	0.077
069290	Soil		0.53	171.25	22.54	73.9	121	76.8	22.4	1095	3.56	1.2	0.4	5.3	5.7	13.0	0.10	0.12	0.29	32	0.35	0.128
069291	Soil		0.27	21.34	5.95	26.4	40	13.7	5.1	199	1.15	0.5	0.3	3.2	0.6	10.5	0.03	0.04	0.11	17	0.31	0.064
069292	Soil		1.26	15.37	32.94	38.7	69	25.4	8.2	230	2.28	1.5	0.4	0.9	0.7	5.7	0.06	0.15	0.38	24	0.05	0.068
069293	Soil		0.46	22.60	13.77	68.8	43	72.3	20.6	1151	3.54	3.1	0.6	8.4	2.3	14.0	0.12	0.22	0.17	35	0.31	0.125
069294	Soil		0.46	12.33	16.02	75.3	34	51.9	14.5	327	3.79	7.8	0.5	16.1	2.7	7.0	0.13	0.27	0.26	31	0.13	0.063
069295	Soil		0.20	22.17	3.58	11.9	55	11.6	3.3	88	0.81	0.6	0.2	0.2	0.1	3.7	0.02	0.04	0.08	11	0.03	0.038
069296	Soil		0.13	7.53	2.97	9.5	21	4.3	2.0	63	0.61	0.6	0.2	0.5	0.1	5.9	0.02	0.03	0.05	12	0.07	0.039
069297	Soil		0.49	42.88	20.07	83.8	17	49.8	19.3	1419	3.80	3.6	0.6	1.2	11.6	7.7	0.08	0.20	0.29	22	0.13	0.065
069298	Soil		0.31	99.73	80.13	96.3	192	37.4	17.0	653	3.23	241.8	2.9	30.2	7.6	8.1	0.06	0.52	0.73	13	0.07	0.047
069299	Soil		0.55	41.95	30.36	99.8	27	42.5	21.2	871	4.76	21.0	1.4	1.8	7.2	4.3	0.06	0.29	0.35	21	0.04	0.065
069300	Soil		0.70	14.69	17.01	36.9	72	12.4	6.0	239	1.85	21.2	0.9	1.3	0.6	8.3	0.10	0.33	0.25	17	0.08	0.073
070171	Soil		1.38	40.86	38.02	87.5	124	45.6	22.0	784	4.20	48.7	2.0	3.9	13.4	41.3	0.09	0.58	0.42	11	0.73	0.049
070172	Soil		1.12	42.27	46.87	88.6	227	55.5	27.8	924	4.39	72.0	1.6	9.3	11.0	21.0	0.07	0.78	0.36	32	0.28	0.049
070173	Soil		0.66	41.75	28.30	91.0	101	53.2	24.6	812	4.43	65.9	1.5	7.7	10.7	18.3	0.10	0.73	0.36	31	0.25	0.049
070174	Soil		0.97	35.91	28.77	55.4	93	48.7	22.2	971	3.34	49.3	0.7	2.5	4.1	40.4	0.05	0.22	0.13	51	0.37	0.055
070175	Soil		0.67	50.73	41.75	101.9	161	46.1	28.5	1068	4.44	36.5	1.6	3.9	17.4	26.5	0.09	0.39	0.44	15	0.44	0.051
070176	Soil		0.78	45.28	44.63	87.1	167	43.8	24.4	939	4.24	40.2	2.6	4.9	13.4	23.7	0.09	0.55	0.41	11	0.28	0.035
070177	Soil		0.40	37.00	29.40	81.1	148	33.4	17.0	509	3.58	46.6	4.4	4.0	6.6	41.7	0.05	0.43	0.34	12	0.58	0.066
070178	Soil		0.41	36.91	32.02	94.4	150	36.5	14.9	324	3.71	17.6	2.0	2.2	9.3	41.2	0.10	0.45	0.35	12	0.66	0.059
070179	Soil		0.46	54.50	23.85	82.7	73	46.2	19.3	569	3.65	16.4	0.8	4.4	9.6	16.4	0.16	0.78	0.33	20	0.54	0.059
070180	Soil		0.37	20.14	17.26	71.2	41	69.4	21.4	1047	3.50	7.9	0.4	15.4	6.7	11.6	0.18	0.23	0.17	30	0.40	0.135



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**Project:** NA-16176  
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# CERTIFICATE OF ANALYSIS

# WHI16000236.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
069281	Soil	10.7	18.5	0.66	25.9	<0.001	<1	1.36	0.004	0.04	<0.1	2.5	0.03	0.05	35	0.4	0.09	3.4	0.55	<0.1	0.25
069282	Soil	11.9	18.2	0.64	27.4	<0.001	<1	1.30	0.003	0.04	<0.1	2.4	0.04	0.02	29	0.2	0.14	3.3	0.51	<0.1	0.30
069283	Soil	17.1	53.4	1.12	42.3	0.003	<1	2.22	0.003	0.03	<0.1	4.9	0.03	<0.02	15	<0.1	0.04	5.4	1.01	<0.1	0.07
069284	Soil	12.7	58.8	0.99	86.6	0.006	<1	2.41	0.009	0.05	<0.1	2.7	0.06	0.04	19	0.1	<0.02	6.2	1.29	<0.1	0.06
069285	Soil	21.8	18.9	0.48	41.6	<0.001	<1	2.23	0.002	0.04	<0.1	1.0	0.05	<0.02	24	0.2	<0.02	3.3	1.02	<0.1	0.08
069286	Soil	23.0	19.5	0.40	40.3	0.003	<1	1.66	0.007	0.04	<0.1	1.0	0.06	0.03	33	0.2	0.04	4.2	1.28	<0.1	0.04
069287	Soil	13.0	20.2	0.65	42.1	0.002	1	1.65	0.005	0.04	<0.1	3.0	0.05	0.03	38	0.4	0.07	3.7	0.57	<0.1	0.12
069288	Soil	7.6	10.2	0.31	19.3	0.002	3	1.17	0.006	0.02	<0.1	0.7	0.03	0.04	29	0.2	0.02	2.8	0.48	<0.1	0.09
069289	Soil	17.2	40.8	1.00	23.7	0.005	2	1.54	0.012	0.03	<0.1	1.1	0.02	0.04	31	0.1	0.02	5.6	0.89	<0.1	0.03
069290	Soil	21.9	93.3	1.46	53.1	0.009	<1	2.28	0.011	0.03	<0.1	5.4	0.02	0.03	31	0.2	0.04	6.5	0.78	<0.1	0.06
069291	Soil	6.3	15.1	0.30	33.1	0.017	1	0.77	0.026	0.02	<0.1	1.3	0.02	0.04	16	0.1	<0.02	3.3	0.45	<0.1	<0.02
069292	Soil	11.2	39.9	0.54	32.8	0.006	2	1.29	0.012	0.03	<0.1	0.9	0.03	0.06	35	0.2	0.05	5.8	0.72	<0.1	<0.02
069293	Soil	15.3	92.8	1.07	84.1	0.011	2	2.02	0.012	0.04	<0.1	7.2	0.05	0.05	23	0.3	0.03	5.3	1.04	<0.1	0.06
069294	Soil	15.3	64.3	0.78	34.6	0.008	1	1.80	0.003	0.03	0.1	2.5	0.03	0.03	13	0.2	0.04	5.9	0.85	<0.1	<0.02
069295	Soil	4.5	17.2	0.18	19.0	0.010	1	0.62	0.027	0.02	<0.1	0.6	<0.02	0.03	20	0.2	<0.02	2.2	0.40	<0.1	<0.02
069296	Soil	3.9	5.3	0.10	17.9	0.015	1	0.57	0.030	0.02	<0.1	0.5	0.02	0.02	14	<0.1	<0.02	2.0	0.29	<0.1	<0.02
069297	Soil	25.0	40.1	1.33	82.0	0.009	1	2.15	0.003	0.04	<0.1	2.3	0.03	<0.02	11	<0.1	0.07	5.1	1.75	<0.1	0.05
069298	Soil	17.5	24.7	0.82	64.4	0.007	1	1.60	0.010	0.04	<0.1	1.6	0.03	<0.02	12	0.1	0.17	4.6	3.26	<0.1	0.05
069299	Soil	25.1	39.1	1.14	20.5	0.005	<1	2.75	0.005	0.03	<0.1	1.7	0.03	0.02	19	0.2	0.07	7.7	2.32	<0.1	0.09
069300	Soil	10.0	14.3	0.24	43.4	0.007	1	1.12	0.015	0.03	0.2	0.4	0.05	0.06	35	0.2	0.04	4.3	1.21	<0.1	<0.02
070171	Soil	10.7	27.6	0.73	39.5	0.002	2	1.71	0.004	0.06	<0.1	2.8	0.03	0.05	35	0.3	0.06	4.2	0.39	<0.1	0.14
070172	Soil	13.2	61.8	1.18	42.1	0.003	<1	2.20	0.006	0.04	<0.1	5.4	0.03	<0.02	16	0.1	0.04	5.4	0.93	<0.1	0.09
070173	Soil	12.7	60.1	1.19	36.8	0.003	<1	2.20	0.005	0.04	<0.1	5.3	0.03	<0.02	12	0.2	0.04	5.5	0.84	<0.1	0.07
070174	Soil	13.9	93.4	1.66	102.5	0.004	<1	3.06	0.005	0.04	<0.1	4.0	0.03	0.03	19	<0.1	<0.02	7.1	1.45	<0.1	0.07
070175	Soil	17.8	27.9	0.92	32.7	0.001	1	2.16	0.003	0.05	<0.1	3.8	0.04	<0.02	24	<0.1	0.05	4.8	0.76	<0.1	0.11
070176	Soil	18.0	21.8	0.62	37.2	0.001	<1	1.77	0.004	0.04	<0.1	3.0	0.04	<0.02	19	0.2	0.10	3.9	0.78	<0.1	0.12
070177	Soil	10.2	19.8	0.56	67.2	0.002	1	1.79	0.010	0.04	<0.1	2.4	0.04	0.04	33	0.3	0.06	4.4	0.56	<0.1	0.19
070178	Soil	15.1	22.3	0.69	41.0	0.001	<1	1.90	0.004	0.04	<0.1	2.4	0.03	0.04	32	0.4	0.05	4.4	0.34	<0.1	0.22
070179	Soil	17.2	39.0	1.33	60.1	0.001	<1	2.16	0.004	0.05	<0.1	4.4	0.02	0.02	17	<0.1	0.06	5.4	0.62	<0.1	0.12
070180	Soil	23.5	69.5	1.04	96.4	0.008	<1	1.34	0.004	0.03	<0.1	6.4	<0.02	<0.02	16	<0.1	0.03	3.6	0.54	<0.1	0.03



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
069281	Soil	<0.02	2.0	0.6	<0.05	16.6	6.84	19.8	0.02	1	0.3	47.9	<10	<2
069282	Soil	<0.02	2.3	2.2	<0.05	19.6	7.36	22.0	<0.02	<1	0.2	48.9	<10	<2
069283	Soil	0.05	2.8	0.8	<0.05	4.2	7.84	33.6	<0.02	<1	0.6	57.3	<10	<2
069284	Soil	0.44	7.8	4.5	<0.05	2.2	4.56	25.9	0.03	<1	0.5	27.0	<10	<2
069285	Soil	0.10	4.7	1.1	<0.05	3.7	3.58	44.3	0.02	<1	0.4	31.8	<10	<2
069286	Soil	0.21	7.1	6.3	<0.05	1.8	3.93	47.3	0.04	<1	0.3	17.5	<10	<2
069287	Soil	0.04	2.8	1.1	<0.05	10.3	10.80	27.3	0.02	<1	0.5	46.6	<10	<2
069288	Soil	0.14	3.1	5.6	<0.05	2.9	2.38	16.9	<0.02	<1	0.2	17.2	<10	<2
069289	Soil	0.21	2.7	0.7	<0.05	1.1	1.28	34.6	<0.02	<1	0.1	54.7	<10	<2
069290	Soil	0.27	2.4	9.7	<0.05	2.0	7.55	45.2	0.03	<1	0.6	75.4	<10	<2
069291	Soil	0.29	1.7	0.6	<0.05	0.9	2.82	13.0	<0.02	<1	0.3	13.8	<10	<2
069292	Soil	0.30	3.4	3.9	<0.05	0.9	1.66	23.2	<0.02	<1	0.3	30.9	<10	<2
069293	Soil	0.39	5.1	0.7	<0.05	2.3	12.33	30.3	0.04	<1	0.9	53.5	<10	<2
069294	Soil	0.42	3.3	2.7	<0.05	0.6	2.52	32.7	0.02	<1	0.4	53.8	<10	<2
069295	Soil	0.14	1.4	0.6	<0.05	0.4	0.94	9.3	<0.02	<1	<0.1	9.4	<10	<2
069296	Soil	0.13	1.7	0.9	<0.05	0.5	1.07	8.2	<0.02	<1	0.1	5.0	<10	<2
069297	Soil	0.12	3.3	0.8	<0.05	2.3	4.34	52.3	<0.02	<1	1.0	76.3	<10	<2
069298	Soil	0.08	3.0	8.2	<0.05	1.8	3.12	34.7	<0.02	<1	0.9	58.4	<10	<2
069299	Soil	0.20	3.4	0.5	<0.05	3.4	2.39	50.8	<0.02	<1	0.3	83.6	<10	<2
069300	Soil	0.44	5.1	4.1	<0.05	0.7	2.05	20.9	0.02	<1	0.3	15.5	<10	<2
070171	Soil	0.05	2.8	2.1	<0.05	8.2	8.64	22.1	0.02	<1	0.4	58.0	<10	<2
070172	Soil	0.07	2.4	22.3	<0.05	5.7	7.07	27.4	0.04	<1	0.5	59.4	<10	<2
070173	Soil	0.06	2.5	1.4	<0.05	5.0	6.53	26.8	0.03	<1	0.6	62.9	<10	<2
070174	Soil	0.22	3.9	9.9	<0.05	2.4	4.50	34.1	0.03	<1	0.9	44.1	<10	<2
070175	Soil	0.03	3.2	1.0	<0.05	8.2	10.83	38.1	0.02	<1	0.7	61.9	<10	<2
070176	Soil	0.05	3.2	4.5	<0.05	6.0	10.34	40.9	0.03	<1	0.7	42.6	<10	<2
070177	Soil	0.19	3.7	0.5	<0.05	7.4	9.43	21.3	0.03	<1	0.5	40.0	<10	<2
070178	Soil	0.12	2.9	2.8	<0.05	9.0	8.56	29.8	0.02	<1	0.5	48.1	<10	<2
070179	Soil	0.09	2.9	0.6	<0.05	4.1	7.50	33.7	<0.02	<1	0.7	66.6	<10	<2
070180	Soil	0.31	2.1	2.4	<0.05	1.2	8.88	50.1	<0.02	<1	0.5	53.2	<10	<2



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
070181	Soil	0.66	96.75	19.40	75.1	45	79.2	24.6	1386	3.67	2.2	0.3	2.0	8.5	18.5	0.18	0.16	0.24	32	0.92	0.126
070182	Soil	0.38	18.87	15.16	61.9	36	52.5	15.8	724	2.71	9.2	0.4	17.0	1.3	9.0	0.11	0.19	0.13	23	0.26	0.093
070183	Soil	0.18	17.04	7.25	43.1	17	23.2	8.1	270	1.76	3.0	0.3	1.1	2.8	7.0	0.10	0.12	0.13	13	0.15	0.065
070184	Soil	0.29	17.35	11.70	76.8	20	43.7	13.8	402	2.84	5.1	0.5	0.7	7.0	8.8	0.10	0.20	0.18	17	0.23	0.072
070185	Soil	0.41	65.43	16.64	90.0	48	82.2	25.0	1236	3.82	3.5	0.4	4.7	5.0	16.0	0.23	0.21	0.16	28	0.68	0.120
070186	Soil	0.16	56.04	40.62	102.9	16	72.5	22.9	560	5.11	0.9	0.3	0.6	15.9	5.2	0.02	0.06	0.36	25	0.13	0.061
070187	Soil	0.53	15.04	13.31	54.4	34	34.9	11.3	359	2.96	4.8	0.6	2.3	1.9	8.8	0.04	0.18	0.29	22	0.08	0.086
070188	Soil	0.53	75.06	55.34	116.9	29	52.7	34.1	1212	5.56	32.7	1.0	<0.2	10.0	4.1	0.08	0.44	1.20	20	0.08	0.070
070189	Soil	0.61	33.73	28.90	67.3	38	28.8	19.1	810	3.31	19.7	1.1	1.7	4.5	5.0	0.04	0.49	0.27	18	0.05	0.064
070190	Soil	0.74	22.25	31.74	46.9	68	22.1	23.8	1095	2.62	31.8	1.5	1.8	1.8	5.9	0.08	0.37	0.26	15	0.07	0.079
070191	Soil	1.70	101.78	92.40	125.0	59	66.6	41.2	887	4.64	51.6	2.1	2.1	13.6	7.5	0.06	0.48	0.81	15	0.09	0.053
070192	Soil	1.34	58.76	54.97	79.1	185	34.6	13.3	526	5.53	30.1	1.9	4.8	7.8	5.4	0.04	1.89	1.03	22	0.02	0.088
070193	Soil	0.71	45.09	52.84	100.6	45	36.8	33.8	846	4.33	9.8	1.4	1.7	9.0	8.8	0.11	0.42	0.55	17	0.02	0.073
070194	Soil	0.51	39.67	31.61	110.8	35	42.9	22.6	800	4.87	13.2	1.2	4.8	11.1	10.6	0.11	0.54	0.54	17	0.07	0.085
070195	Soil	0.66	44.93	32.60	106.4	39	45.3	22.3	775	4.80	9.3	1.7	1.6	12.4	15.2	0.12	0.42	0.46	17	0.09	0.089
070196	Soil	0.93	43.69	50.67	82.6	98	42.4	31.6	1557	4.31	17.3	1.7	1.8	7.9	19.1	0.11	0.87	0.46	14	0.22	0.171
070197	Soil	0.62	20.62	14.99	70.8	17	32.6	11.3	344	3.54	13.7	1.0	8.6	8.4	10.6	0.14	0.73	0.32	20	0.10	0.065
070198	Soil	1.07	23.85	27.06	49.7	97	16.2	15.8	523	1.58	92.2	0.7	7.6	18.0	17.1	0.20	0.40	0.19	19	0.34	0.035
070199	Soil	0.40	45.66	31.98	90.2	100	38.7	21.2	420	3.91	89.4	1.1	7.1	16.2	35.7	0.07	0.45	0.37	11	0.68	0.043
070200	Soil	0.39	30.63	12.49	50.1	48	22.2	10.4	300	2.59	18.2	0.8	1.5	6.8	22.1	0.05	0.35	0.20	24	0.28	0.076
070141	Soil	0.70	45.15	38.19	90.6	141	42.3	23.3	553	4.32	34.6	1.8	2.7	11.9	137.4	0.15	0.64	0.45	9	5.05	0.071
070142	Soil	0.32	32.18	27.87	74.5	81	33.4	14.7	553	3.53	13.8	1.6	2.0	11.9	17.4	0.07	0.63	0.39	9	0.26	0.062
070143	Soil	0.37	16.17	18.88	37.4	71	15.5	7.0	166	1.55	90.2	0.7	5.0	2.6	11.7	0.04	0.30	0.20	7	0.16	0.038
070144	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.
070145	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.
070146	Soil	0.89	70.54	43.44	103.0	185	86.7	71.8	1487	4.31	334.3	2.6	39.5	12.2	21.7	0.16	0.92	0.37	36	0.23	0.064
070147	Soil	0.72	31.73	33.43	58.7	61	46.4	24.2	747	3.45	119.8	0.8	34.0	6.8	12.4	0.13	0.59	0.28	40	0.08	0.063
070148	Soil	0.08	5.66	1.68	9.4	10	1.3	1.3	47	0.31	1.0	0.3	0.5	0.2	19.6	0.04	0.03	0.04	5	0.42	0.033
070149	Soil	2.19	24.82	66.47	92.1	148	29.2	11.5	3211	5.47	16.3	2.4	4.9	2.4	52.4	0.69	1.63	0.25	9	1.01	0.121
070150	Soil	0.54	31.92	29.55	64.1	84	25.1	13.7	577	2.74	43.7	2.2	4.1	6.8	22.0	0.13	0.47	0.28	9	0.39	0.054



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**Project:** NA-16176  
**Report Date:** September 21, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000236.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
070181	Soil	21.3	97.3	1.79	84.8	0.005	1	2.02	0.005	0.03	<0.1	9.8	<0.02	<0.02	14	<0.1	0.04	5.2	0.99	<0.1	0.03
070182	Soil	13.4	52.9	0.62	48.3	0.009	2	1.14	0.018	0.03	<0.1	4.4	0.03	0.03	42	0.2	0.03	3.4	0.64	<0.1	<0.02
070183	Soil	14.8	15.6	0.43	37.8	0.010	1	0.97	0.017	0.03	<0.1	2.3	<0.02	0.03	18	0.2	0.02	2.7	0.35	<0.1	0.03
070184	Soil	20.7	28.2	0.74	43.4	0.006	1	1.32	0.005	0.03	<0.1	5.5	0.02	<0.02	14	0.1	0.03	3.3	0.73	<0.1	0.03
070185	Soil	18.6	81.0	1.14	59.5	0.007	3	1.71	0.006	0.04	<0.1	8.8	0.02	0.05	43	0.1	0.04	4.2	0.74	<0.1	0.07
070186	Soil	34.6	70.9	2.06	21.5	0.001	1	3.48	0.002	0.03	<0.1	2.9	<0.02	<0.02	10	<0.1	0.07	9.3	0.98	<0.1	0.06
070187	Soil	18.4	44.1	0.88	45.1	0.005	1	1.86	0.007	0.03	<0.1	1.1	0.05	0.04	15	0.2	0.03	5.8	1.17	<0.1	0.04
070188	Soil	38.6	46.6	1.31	27.6	0.002	2	2.96	0.006	0.03	<0.1	2.4	<0.02	<0.02	7	0.2	0.17	7.9	2.87	<0.1	0.15
070189	Soil	21.7	25.2	0.72	23.8	0.009	1	1.85	0.014	0.04	<0.1	1.5	0.03	<0.02	12	0.1	0.05	5.3	1.40	<0.1	0.06
070190	Soil	11.0	18.8	0.46	36.2	0.005	1	1.62	0.014	0.03	<0.1	0.9	0.05	0.04	28	0.4	0.04	4.9	1.54	<0.1	0.04
070191	Soil	37.4	29.7	1.05	27.2	0.003	10	2.58	0.003	0.06	<0.1	2.2	0.04	<0.02	5	<0.1	0.28	6.1	1.87	<0.1	0.14
070192	Soil	20.9	34.7	0.77	24.0	0.005	2	2.14	0.004	0.03	<0.1	1.6	0.21	0.04	44	0.3	0.24	6.9	2.52	<0.1	0.06
070193	Soil	19.7	31.0	0.80	23.2	0.004	<1	2.12	0.004	0.03	<0.1	1.2	0.05	0.05	35	0.2	0.05	6.2	0.87	<0.1	0.20
070194	Soil	24.1	35.4	0.91	19.9	0.004	<1	2.30	0.003	0.03	<0.1	1.8	0.03	0.03	20	<0.1	0.04	6.2	0.71	<0.1	0.11
070195	Soil	17.0	36.3	0.91	25.5	0.006	<1	2.30	0.005	0.04	<0.1	1.6	0.03	0.04	21	<0.1	0.05	5.9	0.71	0.1	0.12
070196	Soil	13.3	29.9	0.69	25.8	0.003	<1	1.82	0.003	0.03	<0.1	1.5	0.05	0.04	35	0.3	0.05	4.9	0.76	<0.1	0.15
070197	Soil	28.2	27.3	0.69	31.0	0.012	<1	1.77	0.003	0.03	0.1	1.5	0.07	<0.02	13	0.1	0.04	4.8	0.67	<0.1	0.07
070198	Soil	37.5	23.3	0.73	20.4	0.001	<1	1.17	0.002	0.04	<0.1	2.6	0.04	<0.02	12	<0.1	0.02	2.7	0.95	<0.1	0.10
070199	Soil	18.7	26.7	0.88	22.6	<0.001	<1	2.04	0.002	0.04	<0.1	2.2	0.03	<0.02	13	<0.1	0.03	4.7	0.74	<0.1	0.10
070200	Soil	12.0	20.0	0.48	29.4	0.014	<1	1.28	0.014	0.03	<0.1	1.6	0.03	0.03	13	0.1	0.02	3.5	0.37	<0.1	0.06
070141	Soil	9.6	20.8	0.68	28.0	0.001	<1	1.54	0.004	0.04	<0.1	2.5	0.05	0.04	56	0.5	0.07	3.8	0.46	<0.1	0.11
070142	Soil	28.0	20.4	0.62	23.6	0.002	<1	1.52	0.003	0.03	<0.1	2.3	0.03	<0.02	17	<0.1	0.04	3.9	0.50	<0.1	0.12
070143	Soil	9.3	8.8	0.25	25.0	0.003	<1	0.83	0.016	0.05	<0.1	0.4	0.03	0.03	21	<0.1	0.02	2.3	0.44	<0.1	0.02
070144	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.
070145	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.
070146	Soil	24.2	83.5	1.37	46.6	0.005	<1	2.38	0.004	0.05	<0.1	6.0	0.06	<0.02	50	<0.1	0.05	5.7	1.45	<0.1	0.06
070147	Soil	15.7	69.2	1.17	46.8	0.007	<1	2.39	0.004	0.04	<0.1	4.1	0.04	0.05	62	0.2	<0.02	5.3	1.08	<0.1	0.09
070148	Soil	3.1	1.8	0.03	20.5	0.016	<1	0.74	0.029	0.02	<0.1	0.5	<0.02	0.03	14	0.1	<0.02	1.5	0.14	<0.1	0.02
070149	Soil	17.4	6.3	0.22	81.3	0.007	1	0.87	0.017	0.04	<0.1	1.9	0.09	0.08	55	0.7	0.04	1.6	0.45	<0.1	0.04
070150	Soil	11.6	14.2	0.47	94.4	0.003	<1	1.74	0.016	0.03	<0.1	1.7	0.05	0.03	16	0.1	0.05	4.0	0.68	<0.1	0.13



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**Report Date:** September 21, 2016

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
070181	Soil	0.19	2.2	0.2	<0.05	1.5	11.18	45.7	0.03	<1	0.8	73.2	<10	<2
070182	Soil	0.16	3.6	0.3	<0.05	0.6	9.80	27.7	0.03	<1	0.5	31.8	<10	<2
070183	Soil	0.24	2.3	0.2	<0.05	0.9	5.18	31.7	<0.02	<1	0.3	24.7	<10	<2
070184	Soil	0.22	3.1	0.4	<0.05	1.2	10.73	42.4	<0.02	<1	0.5	41.9	<10	<2
070185	Soil	0.29	3.8	0.6	<0.05	1.7	10.41	38.0	0.04	<1	0.8	52.4	<10	<2
070186	Soil	0.05	1.9	0.3	<0.05	2.8	3.66	81.0	<0.02	<1	0.5	120.1	<10	<2
070187	Soil	0.24	3.6	0.3	<0.05	1.3	2.21	38.9	<0.02	<1	0.4	51.9	<10	<2
070188	Soil	0.03	2.5	0.3	<0.05	6.2	3.70	79.7	0.02	<1	0.4	96.4	<10	<2
070189	Soil	0.18	3.4	0.2	<0.05	2.3	2.76	43.2	<0.02	<1	0.4	50.5	<10	<2
070190	Soil	0.22	3.5	0.3	<0.05	1.5	3.37	22.5	0.02	<1	0.5	32.1	<10	<2
070191	Soil	0.07	3.3	0.2	<0.05	3.6	5.04	84.4	0.02	<1	0.9	77.4	<10	<2
070192	Soil	0.22	3.5	0.3	<0.05	3.1	2.21	41.1	<0.02	<1	0.6	61.8	<10	<2
070193	Soil	0.15	3.9	0.4	<0.05	6.3	3.73	36.2	<0.02	<1	0.4	78.7	<10	<2
070194	Soil	0.12	3.2	0.4	<0.05	4.5	3.63	44.7	<0.02	<1	0.4	83.7	<10	<2
070195	Soil	0.16	3.9	0.5	<0.05	4.1	3.61	32.3	<0.02	<1	0.6	81.1	<10	<2
070196	Soil	0.10	2.9	0.5	<0.05	6.1	6.50	27.9	<0.02	<1	0.5	58.9	<10	<2
070197	Soil	0.32	4.5	0.2	<0.05	1.7	4.05	54.1	<0.02	<1	0.3	52.2	<10	<2
070198	Soil	<0.02	2.6	0.6	<0.05	6.1	7.13	74.1	<0.02	<1	0.6	21.8	<10	<2
070199	Soil	<0.02	2.2	1.0	<0.05	5.9	6.66	37.6	0.02	<1	0.5	55.2	<10	<2
070200	Soil	0.15	2.5	0.4	<0.05	3.1	5.17	25.6	<0.02	<1	0.3	27.4	<10	<2
070141	Soil	0.04	2.6	0.4	<0.05	4.5	7.08	17.9	0.02	<1	0.4	48.7	<10	<2
070142	Soil	0.05	2.6	0.2	<0.05	4.1	10.62	53.8	0.02	<1	0.3	46.3	<10	<2
070143	Soil	0.14	3.3	0.7	<0.05	1.0	1.95	18.5	<0.02	<1	0.2	10.3	<10	<2
070144	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.
070145	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.
070146	Soil	0.11	5.2	1.4	<0.05	3.4	12.76	51.9	0.03	<1	1.0	49.0	<10	<2
070147	Soil	0.33	4.9	0.6	<0.05	2.9	4.90	40.3	0.03	<1	0.8	42.6	<10	<2
070148	Soil	0.24	1.0	0.1	<0.05	0.7	1.12	6.6	<0.02	<1	0.2	0.6	<10	<2
070149	Soil	0.13	3.8	0.4	<0.05	1.2	17.30	33.9	0.03	<1	0.8	4.9	<10	<2
070150	Soil	0.26	4.2	0.3	<0.05	4.4	7.21	22.7	<0.02	<1	0.5	29.8	<10	<2



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
072861	Soil	0.48	13.23	17.48	46.3	71	16.1	6.5	181	2.52	20.2	0.6	1.3	7.4	8.2	0.02	0.30	0.26	16	0.04	0.016
072862	Soil	0.30	6.06	10.55	27.2	68	6.7	6.7	745	1.00	2.3	0.2	0.6	1.1	14.3	0.14	0.20	0.13	10	0.12	0.025
072863	Soil	0.27	18.01	21.78	27.9	212	17.2	7.5	361	2.49	11.8	1.8	2.3	2.7	94.5	0.13	2.50	0.25	11	1.44	0.040
072864	Soil	0.40	7.10	9.74	32.1	20	7.8	4.0	117	1.71	7.5	0.6	0.4	4.4	25.4	0.06	0.19	0.21	24	0.28	0.010
072865	Soil	0.78	23.97	35.43	34.7	105	30.9	15.6	477	4.82	14.5	1.5	0.2	9.9	85.7	0.18	0.94	0.42	12	1.16	0.027
072866	Soil	0.35	20.73	13.72	52.4	41	25.5	11.7	237	2.92	29.2	0.5	1.5	7.0	14.6	0.04	0.50	0.24	14	0.13	0.016
072867	Soil	0.32	20.72	15.34	58.3	27	28.1	10.2	280	3.02	35.9	0.5	7.2	8.1	9.8	0.02	0.41	0.25	13	0.09	0.026
072868	Soil	0.57	13.16	14.81	39.2	141	10.6	6.0	213	2.78	57.3	0.4	40.4	2.4	17.8	0.27	0.49	0.30	19	0.21	0.039
072869	Soil	0.43	38.69	25.73	69.4	171	33.0	14.8	540	3.56	54.8	2.9	8.0	7.0	47.6	0.13	0.85	0.34	13	0.76	0.048
072870	Soil	0.33	38.51	22.05	75.3	110	32.2	14.3	493	3.36	58.5	1.7	11.3	8.1	39.6	0.07	0.68	0.31	10	0.64	0.052
072951	Soil	0.44	17.90	16.46	83.7	67	27.0	9.5	292	3.46	27.2	0.8	1.9	7.9	6.2	0.15	0.27	0.31	17	0.03	0.021
072952	Soil	1.23	66.71	47.43	77.5	282	22.1	7.0	196	3.86	27.7	3.8	2.0	4.6	24.2	0.16	2.59	0.62	13	0.44	0.064
072953	Soil	0.71	21.77	17.60	53.5	220	13.4	7.8	169	3.89	62.5	0.7	2.5	2.0	9.3	0.19	0.58	0.52	29	0.08	0.083
072954	Soil	0.43	42.07	23.30	68.4	169	29.9	10.9	392	2.80	92.7	1.4	3.7	5.5	33.3	0.07	0.43	0.31	11	0.65	0.059
072955	Soil	0.30	17.14	27.89	70.9	157	26.5	7.9	268	3.03	142.8	0.7	3.6	6.6	7.6	0.10	0.30	0.24	11	0.06	0.035
072956	Soil	0.32	21.33	19.04	57.3	131	22.4	7.8	242	2.82	46.3	0.8	2.9	6.0	8.4	0.05	0.27	0.26	11	0.05	0.033
072957	Soil	0.37	27.40	27.05	83.0	61	37.7	15.0	335	3.81	58.3	0.7	5.7	9.9	3.7	0.12	0.43	0.32	13	<0.01	0.021
072958	Soil	0.49	25.59	21.95	80.9	249	32.5	13.7	782	3.04	43.4	1.5	3.9	4.3	21.7	0.15	0.41	0.38	12	0.53	0.065
072959	Soil	0.42	26.61	18.85	89.8	405	27.6	13.9	965	2.83	31.4	1.5	2.2	4.0	30.1	0.23	0.33	0.42	16	0.60	0.079
072960	Soil	0.28	20.56	14.86	72.0	303	24.6	11.3	652	2.45	25.3	1.1	1.1	3.4	24.0	0.12	0.26	0.33	14	0.44	0.059
072961	Soil	0.20	12.04	11.04	60.9	56	19.3	6.2	265	3.11	37.2	0.4	2.6	6.4	5.8	0.03	0.24	0.26	13	0.06	0.019
072962	Soil	0.27	20.64	18.00	63.4	80	22.4	7.9	286	3.20	62.6	0.5	3.2	8.6	5.6	0.06	0.36	0.32	12	0.02	0.023
072963	Soil	0.22	22.53	17.51	64.9	70	24.5	9.1	324	3.53	80.4	0.5	2.9	8.6	7.2	0.02	0.75	0.36	14	0.02	0.030
072964	Soil	0.37	19.53	20.89	59.7	333	25.3	9.8	288	3.45	80.8	0.6	8.4	8.4	6.6	0.04	0.50	0.32	14	0.03	0.019
072965	Soil	0.73	10.50	9.57	66.1	33	15.8	6.9	286	3.07	14.9	0.5	0.6	3.8	7.3	0.03	0.82	0.21	29	<0.01	0.040
072966	Soil	0.27	18.05	18.04	59.8	39	21.0	11.1	91	2.86	23.6	0.7	3.1	7.4	2.8	0.02	1.87	0.43	7	0.01	0.013
072967	Soil	0.28	2.80	8.29	25.2	144	6.5	2.6	133	1.50	20.2	0.3	0.7	5.6	4.7	0.03	0.32	0.22	15	0.02	0.014
072968	Soil	0.37	33.25	90.70	116.4	75	28.9	15.3	495	4.10	295.4	1.1	53.2	11.3	8.8	0.15	1.82	0.50	11	<0.01	0.024
072969	Soil	0.48	10.87	94.85	105.5	107	29.0	15.3	503	5.64	443.8	1.2	149.3	29.2	13.7	0.15	3.24	0.60	5	0.02	0.055
072970	Soil	0.38	9.47	10.15	56.6	71	11.0	4.5	187	2.18	18.5	0.3	1.9	4.5	6.6	0.19	0.35	0.30	14	0.04	0.030



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**Project:** NA-16176  
**Report Date:** September 21, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000236.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
072861	Soil	32.2	17.3	0.38	36.5	0.003	<1	1.32	0.005	0.03	0.2	1.2	0.06	<0.02	9	<0.1	0.04	5.1	1.69	<0.1	<0.02
072862	Soil	9.8	5.7	0.04	55.4	0.006	<1	0.35	0.020	0.06	<0.1	0.5	0.04	<0.02	13	<0.1	<0.02	2.3	0.83	<0.1	<0.02
072863	Soil	17.2	8.4	0.09	71.6	0.004	<1	0.84	0.014	0.04	<0.1	3.4	0.05	0.03	26	0.2	0.05	2.0	1.49	<0.1	0.02
072864	Soil	21.0	11.5	0.19	57.5	0.005	<1	1.32	0.009	0.03	0.1	1.2	0.07	<0.02	7	<0.1	0.02	5.1	0.49	<0.1	0.02
072865	Soil	42.5	7.2	0.10	72.2	0.003	1	0.96	0.017	0.07	<0.1	5.2	0.07	0.03	24	0.4	0.13	2.2	1.30	<0.1	0.07
072866	Soil	25.8	21.7	0.43	49.5	0.002	<1	1.52	0.006	0.07	0.1	1.6	0.06	<0.02	10	<0.1	0.03	4.2	0.87	<0.1	<0.02
072867	Soil	31.5	26.0	0.55	39.7	0.002	<1	1.54	0.006	0.06	0.4	1.6	0.04	<0.02	8	<0.1	0.04	4.5	0.84	<0.1	0.02
072868	Soil	18.8	11.1	0.13	19.4	0.010	<1	0.56	0.013	0.04	0.6	0.9	0.03	<0.02	11	<0.1	0.06	4.7	0.56	<0.1	<0.02
072869	Soil	22.1	21.7	0.46	67.0	0.003	<1	1.66	0.010	0.08	0.2	2.8	0.06	0.03	35	0.5	0.06	4.0	1.94	<0.1	0.08
072870	Soil	20.8	20.4	0.54	28.9	0.003	1	1.34	0.007	0.06	0.5	2.2	0.03	0.04	31	0.5	0.05	3.4	2.23	<0.1	0.06
072951	Soil	32.5	23.8	0.59	36.3	0.004	<1	1.86	0.005	0.06	0.1	1.5	0.06	<0.02	12	<0.1	0.05	5.7	1.19	<0.1	0.02
072952	Soil	17.5	21.4	0.44	41.9	0.002	<1	1.42	0.007	0.04	<0.1	1.8	0.05	0.03	22	0.6	0.21	5.1	12.35	<0.1	0.06
072953	Soil	27.3	15.0	0.19	31.3	0.014	<1	0.86	0.007	0.05	0.2	0.8	0.03	<0.02	16	<0.1	0.06	7.3	0.88	<0.1	<0.02
072954	Soil	13.8	17.0	0.38	86.5	0.003	<1	1.60	0.014	0.09	<0.1	1.6	0.05	0.04	30	0.4	0.05	4.4	2.09	<0.1	0.14
072955	Soil	31.6	20.9	0.55	27.1	0.002	<1	1.46	0.005	0.04	<0.1	1.2	0.03	<0.02	13	0.1	0.05	4.2	1.15	<0.1	0.06
072956	Soil	28.3	17.7	0.40	43.0	0.002	<1	1.40	0.008	0.07	<0.1	1.2	0.04	<0.02	16	<0.1	0.05	4.2	0.92	<0.1	0.03
072957	Soil	33.2	27.3	0.65	37.4	0.002	<1	2.13	0.005	0.07	<0.1	1.8	0.03	<0.02	11	<0.1	0.06	4.8	0.85	<0.1	0.03
072958	Soil	18.1	21.6	0.50	74.9	0.004	<1	1.71	0.012	0.06	0.1	1.5	0.04	0.04	24	0.2	0.07	4.9	2.06	<0.1	0.08
072959	Soil	17.2	17.8	0.44	108.5	0.004	<1	1.77	0.010	0.07	0.2	1.7	0.07	0.05	25	0.4	0.04	4.9	2.59	<0.1	0.10
072960	Soil	15.9	15.1	0.39	81.4	0.004	2	1.48	0.011	0.05	0.1	1.5	0.06	0.03	19	0.3	0.06	4.6	2.01	<0.1	0.05
072961	Soil	25.2	20.1	0.57	53.9	0.002	<1	1.53	0.005	0.05	<0.1	1.4	0.04	<0.02	<5	0.2	0.02	4.7	1.07	<0.1	<0.02
072962	Soil	33.9	19.5	0.54	38.8	0.003	2	1.54	0.005	0.06	0.1	1.6	0.05	<0.02	15	<0.1	0.07	4.8	0.85	<0.1	0.02
072963	Soil	31.0	19.0	0.50	45.0	0.002	1	1.64	0.006	0.07	0.2	1.6	0.05	<0.02	<5	0.2	0.04	5.1	1.11	<0.1	0.03
072964	Soil	30.2	19.1	0.49	38.3	0.003	<1	1.70	0.004	0.05	0.1	1.7	0.05	<0.02	8	0.3	0.03	4.7	0.86	<0.1	0.03
072965	Soil	59.6	7.1	0.02	23.3	0.006	1	0.27	0.004	0.02	0.2	0.9	0.03	<0.02	12	0.4	0.03	3.1	0.57	<0.1	<0.02
072966	Soil	7.8	6.8	0.13	16.5	<0.001	3	0.51	0.002	0.03	<0.1	0.7	0.04	<0.02	<5	0.2	0.04	2.0	2.27	<0.1	<0.02
072967	Soil	30.2	8.1	0.19	24.2	0.005	<1	0.81	0.002	0.03	0.1	0.7	0.05	<0.02	<5	0.2	<0.02	3.9	0.88	<0.1	<0.02
072968	Soil	33.6	17.1	0.47	28.2	0.001	6	1.41	0.004	0.04	<0.1	2.4	0.05	<0.02	6	0.8	0.07	4.2	1.39	<0.1	0.08
072969	Soil	70.7	6.7	0.02	13.1	<0.001	3	0.29	0.002	0.04	0.3	3.2	0.07	0.02	30	0.1	0.03	0.8	1.91	0.2	<0.02
072970	Soil	38.7	9.7	0.19	29.0	0.002	<1	0.71	0.004	0.05	<0.1	0.6	0.03	<0.02	6	<0.1	0.05	4.2	1.13	<0.1	<0.02



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	10	2
072861	Soil	0.36	6.2	0.4	<0.05	1.0	2.32	59.6	<0.02	<1	0.4	32.8	<10	<2
072862	Soil	0.24	10.1	0.5	<0.05	0.1	0.78	19.9	<0.02	<1	0.1	3.7	<10	<2
072863	Soil	0.46	4.5	0.3	<0.05	0.9	8.93	33.0	0.04	<1	0.6	7.5	<10	<2
072864	Soil	0.74	3.9	0.6	<0.05	1.7	1.58	39.3	<0.02	<1	0.2	18.5	<10	<2
072865	Soil	0.42	11.5	0.4	<0.05	3.6	12.18	87.4	0.05	<1	0.7	5.5	<10	<2
072866	Soil	0.24	8.8	0.3	<0.05	1.3	2.20	48.5	<0.02	<1	0.4	36.1	<10	<2
072867	Soil	0.26	5.8	0.3	<0.05	1.6	2.65	59.2	<0.02	<1	0.3	41.2	<10	<2
072868	Soil	0.46	5.1	0.5	<0.05	0.2	1.28	34.7	0.02	<1	0.1	8.5	<10	<2
072869	Soil	0.49	9.3	0.4	<0.05	2.8	9.24	39.9	0.03	<1	0.6	44.5	<10	<2
072870	Soil	0.24	4.8	0.3	<0.05	3.1	6.48	38.7	<0.02	<1	0.3	38.4	<10	<2
072951	Soil	0.36	8.2	0.3	<0.05	1.1	2.12	61.3	<0.02	<1	0.3	54.3	<10	<2
072952	Soil	0.18	6.0	0.3	<0.05	2.4	5.60	29.4	0.03	<1	0.5	41.6	<10	<2
072953	Soil	0.40	6.0	0.6	<0.05	0.1	1.65	50.8	<0.02	<1	0.2	10.7	<10	<2
072954	Soil	0.32	7.2	0.2	<0.05	5.3	4.61	25.9	<0.02	<1	0.5	32.8	<10	<2
072955	Soil	0.14	4.4	0.2	<0.05	1.2	2.11	59.6	<0.02	<1	0.2	40.6	<10	<2
072956	Soil	0.13	6.1	0.2	<0.05	1.6	1.69	53.9	<0.02	<1	0.2	32.7	<10	<2
072957	Soil	0.10	5.6	0.2	<0.05	1.9	2.52	63.4	<0.02	<1	0.4	52.6	<10	<2
072958	Soil	0.28	8.6	0.4	<0.05	2.9	4.08	34.9	<0.02	<1	0.4	48.2	<10	<2
072959	Soil	0.48	12.2	0.4	<0.05	2.3	4.46	32.3	0.03	<1	0.5	59.0	<10	<2
072960	Soil	0.40	9.9	0.3	<0.05	1.9	3.65	30.9	<0.02	<1	0.6	48.6	<10	<2
072961	Soil	0.21	6.3	0.2	<0.05	0.9	1.69	48.4	0.02	<1	<0.1	43.2	<10	<2
072962	Soil	0.19	6.5	0.3	<0.05	1.1	2.24	63.0	<0.02	<1	<0.1	42.2	<10	<2
072963	Soil	0.28	7.3	0.4	<0.05	1.6	2.49	58.0	<0.02	<1	0.7	38.5	<10	<2
072964	Soil	0.24	6.5	0.3	<0.05	2.3	2.22	56.8	<0.02	<1	0.3	42.2	<10	<2
072965	Soil	0.14	2.6	1.7	<0.05	<0.1	2.71	111.9	<0.02	<1	0.1	0.7	<10	<2
072966	Soil	0.10	7.2	0.2	<0.05	0.6	1.22	13.7	<0.02	<1	0.5	8.9	<10	<2
072967	Soil	0.44	4.9	0.4	<0.05	0.3	1.53	56.8	<0.02	<1	0.3	12.2	<10	<2
072968	Soil	0.05	6.0	1.1	<0.05	4.3	2.87	65.5	<0.02	<1	0.7	37.6	<10	<2
072969	Soil	0.03	5.2	1.4	<0.05	1.5	7.26	139.0	0.03	1	0.9	0.5	<10	<2
072970	Soil	0.16	7.3	0.2	<0.05	0.5	1.35	75.1	<0.02	<1	0.2	14.1	<10	<2



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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
072971	Soil	0.61	27.32	22.91	82.5	138	33.3	17.6	502	3.84	30.3	1.2	4.1	8.1	6.0	0.05	0.77	0.39	11	0.05	0.041
072972	Soil	0.43	20.50	19.84	73.4	107	24.2	8.6	377	3.34	31.6	0.6	3.7	5.9	5.8	0.15	0.43	0.34	13	0.03	0.036
072973	Soil	0.69	29.12	25.59	90.4	121	31.0	11.7	334	5.25	124.4	0.7	2.9	7.9	5.7	0.08	0.79	0.55	18	0.01	0.052
072974	Soil	0.84	31.58	30.27	71.5	155	26.0	8.7	317	3.88	46.9	0.9	4.8	6.7	10.0	0.08	1.76	0.55	13	0.07	0.044
072881	Soil	0.24	7.44	7.87	23.0	214	5.9	2.5	87	1.13	90.1	0.3	8.8	1.2	4.6	0.13	0.19	0.18	8	0.01	0.023
072882	Soil	0.57	35.80	44.54	98.5	430	32.4	11.3	413	4.76	359.9	0.9	13.9	7.3	9.5	0.75	0.91	1.10	13	0.02	0.046
072883	Soil	0.59	36.10	31.61	118.8	43	33.1	15.4	193	3.91	10.2	0.9	1.2	12.8	22.0	0.10	0.52	0.55	13	0.14	0.038
072884	Soil	0.44	6.28	10.93	32.8	75	7.2	4.3	147	2.05	6.6	0.4	0.3	5.4	13.5	0.07	0.24	0.27	21	0.08	0.017
072885	Soil	0.47	10.48	15.74	49.8	20	11.0	6.4	149	2.45	4.8	0.4	0.5	6.1	11.1	0.14	0.45	0.34	18	0.06	0.028
072886	Soil	0.39	21.18	32.06	65.1	57	26.4	13.6	525	3.75	14.4	0.8	1.0	6.6	19.7	0.03	0.53	0.45	12	0.13	0.057
072887	Soil	0.39	14.80	20.13	54.4	34	19.3	7.8	220	2.97	10.8	0.8	0.5	6.9	21.2	0.05	0.55	0.34	9	0.08	0.032
072888	Soil	0.47	35.13	35.51	106.2	37	44.0	16.5	382	4.39	6.7	1.3	1.1	15.6	8.4	0.01	0.31	0.52	7	0.03	0.014
072889	Soil	0.28	5.60	12.90	18.7	31	6.0	3.2	113	1.18	6.2	0.4	<0.2	2.9	7.1	0.05	0.81	0.17	16	0.03	0.021
072890	Soil	0.20	7.75	5.49	19.5	175	3.7	2.3	320	0.72	1.9	2.1	1.0	0.3	60.5	0.06	0.09	0.13	12	0.55	0.035
072891	Soil	0.47	8.01	11.13	48.5	16	11.5	5.6	161	2.38	22.7	0.4	<0.2	3.7	12.5	0.11	0.49	0.28	18	0.06	0.028
072892	Soil	0.20	7.43	8.22	36.1	18	8.8	3.7	98	1.77	16.9	0.3	3.2	4.3	8.9	0.06	0.48	0.18	12	0.05	0.018
072893	Soil	0.45	20.93	14.91	72.8	22	28.3	9.8	298	4.04	27.8	0.5	1.3	7.7	8.0	0.05	0.51	0.35	15	0.02	0.018
072894	Soil	0.37	15.48	21.97	62.3	50	14.8	7.6	259	2.53	18.9	0.9	0.4	4.2	16.0	0.15	0.46	0.35	17	0.08	0.026
072895	Soil	0.55	10.45	15.06	48.1	18	15.4	6.1	277	2.79	23.9	0.6	2.4	4.4	10.9	0.06	0.37	0.33	20	0.05	0.021
072896	Soil	0.42	10.60	10.51	37.3	56	7.0	3.2	76	1.52	28.5	0.5	2.0	4.3	9.5	0.19	1.21	0.35	18	0.06	0.016



Bureau Veritas Commodities Canada Ltd.

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**Project:** NA-16176  
**Report Date:** September 21, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000236.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf		
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	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	MDL
072971	Soil	28.8	22.8	0.62	27.4	0.002	<1	1.57	0.004	0.03	<0.1	1.6	0.02	<0.02	7	0.4	0.08	4.8	1.09	<0.1	0.05		
072972	Soil	27.3	18.4	0.52	27.2	0.003	2	1.43	0.009	0.04	<0.1	1.2	0.03	<0.02	14	0.2	0.04	4.5	1.11	<0.1	0.03		
072973	Soil	28.8	24.9	0.57	20.9	0.004	2	1.72	0.003	0.03	<0.1	1.5	0.03	<0.02	12	0.3	0.08	5.8	1.24	<0.1	<0.02		
072974	Soil	26.6	20.8	0.49	38.7	0.001	<1	1.55	0.007	0.05	<0.1	1.5	0.04	0.02	26	<0.1	0.13	5.1	3.45	<0.1	0.07		
072881	Soil	7.9	5.5	0.12	16.4	0.004	<1	0.62	0.019	0.02	<0.1	0.5	0.03	<0.02	15	<0.1	<0.02	2.0	0.46	<0.1	<0.02		
072882	Soil	24.3	22.3	0.51	29.0	<0.001	<1	1.67	0.004	0.03	0.2	1.6	0.05	<0.02	25	<0.1	0.10	5.0	2.26	<0.1	0.08		
072883	Soil	27.5	20.3	0.49	29.4	<0.001	<1	1.64	0.003	0.04	<0.1	2.1	0.06	<0.02	32	0.3	0.03	5.4	2.80	<0.1	0.05		
072884	Soil	25.0	10.0	0.17	39.9	0.005	<1	1.11	0.009	0.02	0.1	1.0	0.05	<0.02	7	<0.1	0.06	5.1	0.67	<0.1	<0.02		
072885	Soil	30.2	9.6	0.18	33.4	0.002	<1	1.20	0.004	0.02	0.2	1.0	0.06	<0.02	11	0.3	0.02	5.2	0.67	<0.1	0.02		
072886	Soil	22.8	15.8	0.47	48.6	0.003	<1	1.48	0.008	0.02	<0.1	2.0	0.05	<0.02	39	0.3	0.07	3.8	0.79	<0.1	0.03		
072887	Soil	19.9	12.9	0.40	60.1	0.002	<1	1.24	0.010	0.02	0.5	2.5	0.05	<0.02	25	0.1	<0.02	3.4	0.86	<0.1	0.03		
072888	Soil	23.7	19.3	0.75	19.4	<0.001	1	1.60	0.002	0.02	<0.1	6.1	0.05	<0.02	58	<0.1	<0.02	3.8	0.60	0.1	0.09		
072889	Soil	23.5	4.9	0.05	38.7	0.005	2	0.68	0.009	0.04	0.3	0.6	0.06	<0.02	17	<0.1	<0.02	3.3	0.91	<0.1	<0.02		
072890	Soil	6.1	5.1	0.09	41.0	0.016	<1	0.82	0.028	0.02	<0.1	0.8	0.05	0.03	14	0.1	<0.02	3.1	0.81	<0.1	<0.02		
072891	Soil	30.3	11.8	0.21	28.1	0.006	1	0.85	0.005	0.05	0.1	0.9	0.05	<0.02	11	0.2	0.06	5.1	0.91	<0.1	<0.02		
072892	Soil	20.7	7.8	0.16	29.7	0.005	<1	0.62	0.009	0.04	<0.1	0.7	0.04	<0.02	11	<0.1	<0.02	3.0	0.75	<0.1	<0.02		
072893	Soil	26.4	24.2	0.64	33.9	0.002	2	1.87	0.003	0.04	0.3	1.6	0.04	<0.02	16	<0.1	0.06	5.4	1.04	0.1	0.02		
072894	Soil	16.0	13.3	0.26	39.1	0.008	2	1.08	0.012	0.04	0.1	1.6	0.05	<0.02	27	<0.1	<0.02	4.3	1.69	<0.1	0.02		
072895	Soil	24.1	16.6	0.41	49.9	0.009	1	1.29	0.006	0.03	0.1	1.1	0.06	<0.02	18	<0.1	<0.02	5.4	2.32	<0.1	<0.02		
072896	Soil	20.4	6.0	0.07	36.1	0.005	<1	0.67	0.007	0.05	0.3	0.8	0.07	<0.02	10	<0.1	0.02	2.9	0.83	<0.1	<0.02		



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**Project:** NA-16176  
**Report Date:** September 21, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000236.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		MDL	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
072971	Soil	0.13	3.5	0.2	<0.05	1.9	2.38	55.7	<0.02	<1	0.2	50.3	<10	<2
072972	Soil	0.15	5.0	0.2	<0.05	1.3	1.97	53.1	0.02	<1	0.1	40.8	<10	<2
072973	Soil	0.57	4.0	0.3	<0.05	1.6	1.82	54.0	0.02	<1	0.4	48.7	<10	<2
072974	Soil	0.23	6.5	0.3	<0.05	1.9	2.10	51.1	0.03	<1	0.4	48.2	<10	<2
072881	Soil	0.18	2.6	0.2	<0.05	0.5	0.61	15.0	<0.02	<1	<0.1	8.6	<10	<2
072882	Soil	0.13	5.9	0.4	<0.05	1.8	1.80	45.2	0.02	<1	0.1	48.8	<10	<2
072883	Soil	0.13	6.7	0.6	<0.05	2.0	4.43	50.6	0.03	<1	0.8	61.3	<10	<2
072884	Soil	0.60	4.3	0.5	<0.05	0.9	1.65	47.4	<0.02	<1	0.1	22.2	<10	<2
072885	Soil	0.34	4.3	0.4	<0.05	0.9	1.91	55.7	<0.02	<1	0.3	23.7	<10	<2
072886	Soil	0.30	4.0	0.2	<0.05	1.5	6.03	46.3	0.03	<1	0.4	51.6	<10	<2
072887	Soil	0.23	4.7	0.3	<0.05	1.6	5.22	38.1	0.03	<1	0.6	41.8	<10	<2
072888	Soil	<0.02	3.6	0.2	<0.05	4.5	11.46	41.3	0.04	<1	1.2	79.6	<10	<2
072889	Soil	0.35	5.5	0.5	<0.05	0.2	1.55	48.2	<0.02	<1	<0.1	3.3	<10	<2
072890	Soil	0.77	2.9	0.3	<0.05	0.6	3.90	10.6	<0.02	<1	0.3	7.0	<10	<2
072891	Soil	0.51	10.8	0.4	<0.05	0.3	1.59	59.0	<0.02	<1	0.2	19.8	<10	<2
072892	Soil	0.29	7.7	0.2	<0.05	0.3	1.34	41.7	<0.02	<1	<0.1	13.1	<10	<2
072893	Soil	0.21	6.1	0.2	<0.05	2.2	1.76	50.2	0.03	<1	<0.1	57.9	<10	<2
072894	Soil	0.62	5.1	0.3	<0.05	0.8	2.93	33.3	0.03	<1	0.6	34.4	<10	<2
072895	Soil	0.71	5.3	0.4	<0.05	0.3	1.76	47.4	0.02	<1	0.1	31.1	<10	<2
072896	Soil	0.50	5.7	0.6	<0.05	0.2	2.14	39.6	<0.02	<1	0.3	4.6	<10	<2



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**Project:** NA-16176  
**Report Date:** September 21, 2016

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# QUALITY CONTROL REPORT

# WHI16000236.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
Pulp Duplicates																					
073663	Soil	0.39	58.16	38.05	82.4	148	38.8	24.6	963	3.84	28.7	1.8	4.7	17.1	15.6	0.08	1.23	0.49	11	0.22	0.064
REP 073663	QC	0.38	56.21	36.75	83.2	140	39.0	23.9	925	3.85	28.6	1.8	5.0	16.9	15.0	0.06	1.15	0.47	11	0.22	0.065
072598	Soil	0.14	3.53	2.34	5.0	49	1.2	0.9	53	0.40	0.8	0.2	0.4	<0.1	5.3	0.03	0.03	0.06	9	0.04	0.023
REP 072598	QC	0.13	3.47	2.40	5.4	43	1.1	0.9	52	0.40	0.8	0.2	0.3	<0.1	5.4	0.03	0.03	0.06	9	0.04	0.022
070012	Soil	0.33	23.77	27.37	90.0	52	33.7	14.3	334	3.60	15.4	1.5	1.3	10.6	34.7	0.06	0.58	0.38	13	0.40	0.049
REP 070012	QC	0.31	23.35	26.64	86.1	51	33.6	14.4	311	3.69	14.7	1.5	1.7	10.3	33.5	0.05	0.58	0.37	13	0.39	0.049
071014	Soil	0.33	38.99	18.52	110.6	5	48.2	16.7	474	4.92	13.4	0.7	0.9	8.7	3.2	0.10	0.19	0.41	16	0.05	0.030
REP 071014	QC	0.33	39.57	18.70	111.4	4	49.4	16.9	466	5.02	13.4	0.8	1.3	9.0	3.2	0.10	0.17	0.39	17	0.05	0.032
071020	Soil	0.79	81.82	27.13	125.6	182	49.0	22.4	823	4.64	33.5	19.8	4.7	6.2	16.3	0.11	0.59	0.63	15	0.54	0.064
REP 071020	QC	0.80	80.44	26.62	124.0	172	48.8	22.3	810	4.60	32.6	19.4	5.0	6.3	16.2	0.14	0.61	0.60	15	0.52	0.065
070032	Soil	0.39	43.65	44.47	63.1	124	44.6	35.4	540	3.37	66.4	2.9	8.2	17.6	13.2	0.07	0.49	0.49	11	0.16	0.057
REP 070032	QC	0.38	40.51	43.05	62.0	117	43.4	34.1	506	3.36	64.8	2.8	32.2	16.9	13.0	0.08	0.52	0.46	11	0.16	0.054
069297	Soil	0.49	42.88	20.07	83.8	17	49.8	19.3	1419	3.80	3.6	0.6	1.2	11.6	7.7	0.08	0.20	0.29	22	0.13	0.065
REP 069297	QC	0.44	41.00	19.83	81.7	13	49.4	18.4	1380	3.77	3.9	0.6	5.2	11.1	7.3	0.08	0.19	0.30	21	0.13	0.065
072864	Soil	0.40	7.10	9.74	32.1	20	7.8	4.0	117	1.71	7.5	0.6	0.4	4.4	25.4	0.06	0.19	0.21	24	0.28	0.010
REP 072864	QC	0.39	7.32	9.89	32.1	22	7.9	4.0	115	1.75	7.7	0.6	0.6	4.5	26.8	0.07	0.18	0.22	24	0.28	0.011
072888	Soil	0.47	35.13	35.51	106.2	37	44.0	16.5	382	4.39	6.7	1.3	1.1	15.6	8.4	0.01	0.31	0.52	7	0.03	0.014
REP 072888	QC	0.47	34.67	35.93	108.9	35	45.3	16.8	388	4.35	6.9	1.2	0.7	15.4	8.3	0.05	0.34	0.53	7	0.03	0.013
Reference Materials																					
STD DS10	Standard	15.36	137.48	158.13	355.4	1816	79.3	13.7	919	2.79	42.2	2.5	72.1	6.9	68.4	2.38	8.36	11.24	43	1.11	0.072
STD DS10	Standard	15.27	154.48	151.73	364.8	1814	74.9	13.4	899	2.83	46.5	2.7	87.8	7.5	67.8	2.52	9.79	12.49	42	1.06	0.077
STD DS10	Standard	15.63	155.42	155.51	377.3	1936	76.5	12.9	902	2.84	47.2	2.8	182.7	8.0	69.0	2.62	8.91	12.34	46	1.10	0.084
STD DS10	Standard	16.40	157.50	154.49	375.4	1843	78.3	13.6	928	2.88	48.0	2.9	149.4	8.1	71.5	2.71	9.82	12.41	43	1.10	0.081
STD DS10	Standard	15.46	155.00	150.04	375.4	1818	76.8	13.5	858	2.78	46.7	2.7	78.7	7.8	66.3	2.52	9.35	12.29	45	1.11	0.072
STD DS10	Standard	15.84	162.11	158.35	376.1	1870	79.3	13.7	909	2.85	47.9	2.9	81.4	8.4	68.0	2.71	9.05	12.56	43	1.10	0.076
STD DS10	Standard	16.16	158.40	153.86	372.8	1777	75.4	13.2	918	2.86	45.9	2.8	73.3	7.9	69.7	2.56	9.67	12.16	43	1.09	0.076
STD DS10	Standard	15.37	153.29	154.80	359.6	1885	73.8	13.3	894	2.78	46.3	2.7	89.8	7.8	68.9	2.50	9.74	12.17	42	1.08	0.077
STD DS10	Standard	15.64	151.43	148.64	368.2	1930	72.6	12.9	889	2.85	45.1	2.8	104.1	7.9	71.6	2.53	10.20	13.50	42	1.09	0.076



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# QUALITY CONTROL REPORT

# WHI16000236.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
Pulp Duplicates																					
073663	Soil	46.5	19.4	0.59	33.8	0.002	1	1.53	0.005	0.04	<0.1	3.1	0.04	<0.02	20	<0.1	0.03	3.8	1.26	<0.1	0.10
REP 073663	QC	48.6	18.9	0.59	33.3	0.002	<1	1.49	0.005	0.04	<0.1	3.0	0.03	<0.02	14	<0.1	0.02	3.8	1.27	<0.1	0.09
072598	Soil	1.8	2.2	0.03	12.9	0.013	<1	0.36	0.028	0.02	<0.1	0.2	<0.02	0.02	9	0.2	<0.02	1.9	0.21	<0.1	<0.02
REP 072598	QC	1.9	2.2	0.03	12.9	0.013	<1	0.37	0.029	0.02	<0.1	0.2	<0.02	0.02	6	<0.1	<0.02	1.8	0.20	<0.1	<0.02
070012	Soil	19.4	29.8	0.73	30.5	0.003	1	1.65	0.003	0.03	<0.1	2.6	0.03	0.02	11	0.2	0.03	4.7	0.54	<0.1	0.12
REP 070012	QC	19.5	29.2	0.75	27.4	0.003	<1	1.68	0.003	0.03	<0.1	2.6	0.02	0.02	10	0.2	0.03	4.5	0.52	<0.1	0.13
071014	Soil	22.6	36.8	1.15	16.4	0.001	1	2.73	0.005	0.03	<0.1	2.6	0.04	<0.02	<5	<0.1	0.06	7.4	2.47	<0.1	0.05
REP 071014	QC	23.8	38.7	1.16	17.0	<0.001	<1	2.81	0.006	0.03	<0.1	2.5	0.03	<0.02	<5	<0.1	0.06	7.7	2.52	<0.1	0.05
071020	Soil	19.5	34.6	0.92	48.3	0.002	<1	2.47	0.006	0.04	<0.1	3.5	0.04	0.03	39	0.6	0.10	6.7	5.46	<0.1	0.17
REP 071020	QC	19.4	34.8	0.91	47.0	0.002	<1	2.44	0.006	0.05	<0.1	3.4	0.03	0.03	39	0.5	0.08	6.6	5.48	<0.1	0.20
070032	Soil	21.7	18.4	0.69	33.3	0.002	<1	1.82	0.004	0.04	<0.1	1.9	0.05	<0.02	19	0.1	0.05	4.0	1.05	<0.1	0.03
REP 070032	QC	22.1	18.1	0.70	32.7	0.002	<1	1.80	0.004	0.04	<0.1	1.9	0.04	<0.02	19	<0.1	0.05	3.6	1.04	<0.1	0.03
069297	Soil	25.0	40.1	1.33	82.0	0.009	1	2.15	0.003	0.04	<0.1	2.3	0.03	<0.02	11	<0.1	0.07	5.1	1.75	<0.1	0.05
REP 069297	QC	24.5	40.1	1.33	82.8	0.009	<1	2.11	0.003	0.04	<0.1	2.2	0.03	<0.02	13	<0.1	0.07	5.2	1.73	<0.1	0.05
072864	Soil	21.0	11.5	0.19	57.5	0.005	<1	1.32	0.009	0.03	0.1	1.2	0.07	<0.02	7	<0.1	0.02	5.1	0.49	<0.1	0.02
REP 072864	QC	21.6	12.0	0.19	58.7	0.005	<1	1.30	0.009	0.03	0.1	1.2	0.08	<0.02	<5	<0.1	0.04	5.3	0.49	<0.1	0.03
072888	Soil	23.7	19.3	0.75	19.4	<0.001	1	1.60	0.002	0.02	<0.1	6.1	0.05	<0.02	58	<0.1	<0.02	3.8	0.60	0.1	0.09
REP 072888	QC	24.2	19.6	0.75	18.9	<0.001	<1	1.63	0.002	0.02	<0.1	6.0	0.06	<0.02	64	<0.1	<0.02	3.9	0.59	0.2	0.09
Reference Materials																					
STD DS10	Standard	16.5	58.8	0.78	360.0	0.072	7	1.09	0.076	0.35	3.5	3.2	5.25	0.27	299	2.4	5.02	4.7	2.81	0.1	0.06
STD DS10	Standard	18.3	56.0	0.77	350.9	0.081	6	1.03	0.071	0.34	3.4	2.9	5.10	0.27	290	2.5	5.07	4.3	2.83	<0.1	0.06
STD DS10	Standard	19.4	58.4	0.80	378.1	0.086	7	1.12	0.079	0.35	3.4	3.3	5.38	0.30	271	2.7	5.21	4.5	2.82	<0.1	0.11
STD DS10	Standard	20.0	58.7	0.79	367.6	0.089	7	1.13	0.077	0.35	3.6	3.3	5.32	0.27	292	2.5	5.15	4.8	2.79	<0.1	0.07
STD DS10	Standard	18.3	56.1	0.78	354.6	0.080	6	1.08	0.073	0.34	3.2	3.1	5.12	0.28	262	2.2	4.97	4.6	2.70	<0.1	0.06
STD DS10	Standard	19.2	58.9	0.81	373.4	0.083	8	1.10	0.075	0.35	3.5	3.2	5.25	0.27	304	2.6	5.15	4.6	2.77	<0.1	0.07
STD DS10	Standard	19.9	59.9	0.79	379.3	0.088	7	1.13	0.074	0.35	3.4	3.0	5.33	0.28	272	2.1	5.04	4.4	2.88	<0.1	0.05
STD DS10	Standard	19.2	58.3	0.78	355.6	0.085	7	1.09	0.074	0.35	3.5	3.0	5.33	0.27	298	2.0	5.03	4.4	2.78	<0.1	0.06
STD DS10	Standard	18.4	57.2	0.78	354.2	0.081	7	1.08	0.071	0.34	3.4	3.3	5.15	0.28	292	2.1	5.21	4.8	2.74	<0.1	0.04



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates														
073663	Soil	0.06	3.0	0.1	<0.05	7.1	15.33	93.2	0.03	<1	0.7	38.0	<10	<2
REP 073663	QC	0.05	3.1	0.1	<0.05	6.7	15.08	96.9	0.03	<1	0.8	36.8	<10	<2
072598	Soil	0.13	0.9	0.2	<0.05	0.4	0.52	3.6	<0.02	<1	<0.1	1.2	<10	<2
REP 072598	QC	0.12	0.9	0.1	<0.05	0.4	0.50	3.5	<0.02	<1	<0.1	1.0	<10	<2
070012	Soil	0.14	3.3	0.1	<0.05	4.8	7.47	38.6	0.02	<1	0.5	51.8	<10	<2
REP 070012	QC	0.16	3.2	0.1	<0.05	4.9	7.26	38.6	<0.02	<1	0.4	53.6	<10	<2
071014	Soil	0.02	3.0	0.2	<0.05	3.0	2.24	44.9	0.02	<1	0.3	79.1	<10	<2
REP 071014	QC	0.04	3.0	0.2	<0.05	2.8	2.35	47.0	0.03	<1	0.3	85.4	<10	<2
071020	Soil	0.14	4.1	0.2	<0.05	5.9	9.03	34.7	0.03	<1	0.5	75.1	<10	<2
REP 071020	QC	0.13	4.2	0.2	<0.05	5.5	9.02	36.0	0.03	<1	0.7	75.2	<10	<2
070032	Soil	0.09	4.8	5.5	<0.05	1.8	5.48	45.3	0.03	<1	0.7	34.3	<10	<2
REP 070032	QC	0.09	4.5	5.6	<0.05	1.6	5.30	45.0	0.02	<1	0.7	34.0	<10	<2
069297	Soil	0.12	3.3	0.8	<0.05	2.3	4.34	52.3	<0.02	<1	1.0	76.3	<10	<2
REP 069297	QC	0.13	3.2	0.7	<0.05	2.4	4.34	53.7	<0.02	<1	0.9	77.6	<10	<2
072864	Soil	0.74	3.9	0.6	<0.05	1.7	1.58	39.3	<0.02	<1	0.2	18.5	<10	<2
REP 072864	QC	0.76	3.9	0.6	<0.05	1.7	1.61	40.0	<0.02	<1	0.1	18.7	<10	<2
072888	Soil	<0.02	3.6	0.2	<0.05	4.5	11.46	41.3	0.04	<1	1.2	79.6	<10	<2
REP 072888	QC	0.03	3.5	0.2	<0.05	4.7	10.98	41.5	0.04	<1	1.0	79.8	10	<2
Reference Materials														
STD DS10	Standard	1.81	26.2	1.5	<0.05	2.7	8.11	35.5	0.24	52	0.5	20.8	125	182
STD DS10	Standard	1.57	29.3	1.5	<0.05	2.3	8.39	37.2	0.25	47	0.8	20.1	125	180
STD DS10	Standard	1.68	30.1	1.6	<0.05	2.7	8.60	39.3	0.23	46	0.7	21.0	124	183
STD DS10	Standard	1.95	30.8	1.8	<0.05	3.0	9.47	40.6	0.25	50	0.7	21.1	108	179
STD DS10	Standard	1.47	29.1	1.5	<0.05	2.6	8.28	36.8	0.22	53	0.6	20.3	110	179
STD DS10	Standard	1.73	29.6	1.6	<0.05	2.7	8.54	39.2	0.23	52	0.5	20.9	110	193
STD DS10	Standard	1.75	30.1	1.7	<0.05	2.4	8.84	40.7	0.25	46	0.7	19.7	106	188
STD DS10	Standard	1.76	29.6	1.7	<0.05	2.5	8.73	38.8	0.23	52	0.7	19.6	119	190
STD DS10	Standard	1.62	29.3	5.2	<0.05	2.7	8.08	37.7	0.24	48	0.4	19.7	113	184



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		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
STD OXC129	Standard	1.29	23.60	5.81	38.5	10	77.6	20.8	415	2.98	0.4	0.6	199.2	1.6	185.7	0.02	0.03	<0.02	51	0.71	0.095
STD OXC129	Standard	1.34	27.76	6.34	43.2	13	81.7	20.7	407	3.15	0.7	0.7	194.2	1.9	180.2	0.01	0.04	<0.02	50	0.64	0.104
STD OXC129	Standard	1.21	26.44	6.15	42.1	16	77.1	19.1	411	2.97	0.7	0.7	190.8	1.8	179.0	0.02	0.03	0.03	52	0.66	0.101
STD OXC129	Standard	1.27	26.85	6.16	41.8	12	80.0	20.6	420	3.12	0.9	0.7	182.5	1.8	189.0	0.02	0.03	<0.02	50	0.72	0.109
STD OXC129	Standard	1.23	27.55	6.20	41.3	6	77.5	20.1	423	2.98	0.6	0.7	191.3	1.8	195.2	0.02	0.04	<0.02	53	0.68	0.103
STD OXC129	Standard	1.32	27.55	6.43	42.1	16	80.9	21.3	427	3.06	0.9	0.7	192.8	1.9	183.1	0.01	0.03	<0.02	51	0.71	0.107
STD OXC129	Standard	1.33	27.67	6.40	41.4	14	79.7	21.3	434	3.12	0.8	0.7	181.3	1.9	188.4	0.02	0.03	<0.02	51	0.72	0.108
STD OXC129	Standard	1.39	27.23	6.32	42.8	17	80.8	20.7	436	3.03	0.9	0.7	188.5	1.9	191.0	0.02	0.04	<0.02	51	0.72	0.107
STD OXC129	Standard	1.24	27.13	6.05	44.8	21	75.3	19.7	456	3.12	0.2	0.7	194.9	1.8	196.0	0.03	0.03	<0.02	50	0.70	0.106
STD DS10 Expected		15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	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	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665	0.102
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.3	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	3	<0.1	<0.1	<1	<0.01	0.3	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	3	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	3	<0.1	<0.1	<1	<0.01	0.3	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



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		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
STD OXC129	Standard	11.0	53.6	1.53	49.3	0.394	2	1.65	0.616	0.38	0.1	1.2	0.03	<0.02	<5	<0.1	<0.02	5.6	0.16	<0.1	0.24
STD OXC129	Standard	13.1	52.4	1.53	50.4	0.399	<1	1.52	0.581	0.36	<0.1	1.1	0.04	<0.02	<5	<0.1	<0.02	5.6	0.16	<0.1	0.29
STD OXC129	Standard	12.4	51.3	1.46	48.4	0.383	1	1.56	0.594	0.39	<0.1	1.1	0.03	<0.02	<5	<0.1	<0.02	5.6	0.16	<0.1	0.27
STD OXC129	Standard	12.8	53.9	1.55	50.9	0.403	<1	1.63	0.605	0.37	<0.1	1.3	0.03	<0.02	<5	<0.1	<0.02	5.6	0.17	<0.1	0.27
STD OXC129	Standard	12.6	51.1	1.53	51.2	0.390	1	1.56	0.587	0.36	<0.1	1.2	0.03	<0.02	<5	<0.1	<0.02	5.5	0.16	<0.1	0.29
STD OXC129	Standard	12.8	54.0	1.53	50.4	0.414	1	1.64	0.608	0.37	<0.1	1.1	0.03	<0.02	<5	<0.1	<0.02	5.6	0.17	<0.1	0.28
STD OXC129	Standard	12.9	54.9	1.52	50.2	0.412	<1	1.63	0.607	0.36	<0.1	1.1	0.03	<0.02	<5	<0.1	<0.02	5.6	0.16	<0.1	0.28
STD OXC129	Standard	13.0	55.0	1.53	50.0	0.401	<1	1.67	0.622	0.38	<0.1	1.1	0.03	<0.02	<5	<0.1	<0.02	5.8	0.16	<0.1	0.27
STD OXC129	Standard	12.4	48.8	1.55	48.9	0.389	2	1.57	0.588	0.36	<0.1	0.9	0.03	<0.02	<5	<0.1	0.03	5.6	0.15	<0.1	0.27
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0259	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	2.63	0.08	0.06
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6	0.16		0.24
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



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		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
STD OXC129	Standard	1.33	14.8	0.6	<0.05	20.3	4.45	21.8	<0.02	<1	0.8	2.0	<10	<2
STD OXC129	Standard	1.59	16.6	0.7	<0.05	20.9	4.96	24.4	<0.02	<1	1.0	2.3	<10	<2
STD OXC129	Standard	1.41	16.0	0.7	<0.05	20.4	4.77	23.1	<0.02	<1	0.7	2.1	<10	<2
STD OXC129	Standard	1.35	16.3	0.8	<0.05	21.7	4.92	24.0	<0.02	<1	0.8	2.4	<10	<2
STD OXC129	Standard	1.76	15.8	0.7	<0.05	22.6	4.89	23.3	<0.02	<1	0.8	2.3	<10	<2
STD OXC129	Standard	1.23	15.7	0.7	<0.05	23.5	4.94	23.4	<0.02	<1	1.0	2.2	<10	<2
STD OXC129	Standard	2.10	15.7	0.7	<0.05	21.9	4.86	24.1	<0.02	<1	0.9	2.3	<10	<2
STD OXC129	Standard	1.42	15.4	0.7	<0.05	21.7	5.05	24.1	<0.02	<1	0.8	2.1	<10	<2
STD OXC129	Standard	1.32	15.5	0.7	<0.05	22.5	4.72	23.1	<0.02	<1	0.8	2.3	<10	<2
STD DS10 Expected		1.62	27.7	1.6		2.7	7.77	37	0.23	50	0.63	19.4	110	191
STD OXC129 Expected		1.4		0.7		21	4.7	23.7			0.8	2.22		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

**Client:** **Golden Predator Mining Corp.**  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

Submitted By: M. Burke  
Receiving Lab: Canada-Whitehorse  
Received: August 31, 2016  
Report Date: September 19, 2016  
Page: 1 of 12

## CERTIFICATE OF ANALYSIS

WHI16000237.1

### CLIENT JOB INFORMATION

Project: NA-16176  
Shipment ID:  
P.O. Number  
Number of Samples: 321

### 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: Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6  
Canada

CC: M. Burke

### 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
AQ251_EXT	319	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
SHP01	320	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:** NA-16176  
**Report Date:** September 19, 2016

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**Part:** 1 of 3

# CERTIFICATE OF ANALYSIS

# WHI16000237.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
072897	Soil	0.65	22.84	14.21	52.6	90	12.9	5.8	157	2.61	32.4	0.6	3.8	3.7	3.5	0.14	0.45	0.30	17	0.02	0.025
072898	Soil	0.36	31.61	21.80	83.7	42	40.1	15.7	461	4.20	39.6	0.8	5.1	7.3	4.5	0.02	0.39	0.36	14	0.03	0.026
072899	Soil	0.54	17.07	18.83	85.7	77	30.5	11.9	361	4.66	45.1	0.6	14.4	7.2	4.4	0.05	0.50	0.39	19	0.02	0.019
072900	Soil	0.41	22.85	16.46	70.7	81	28.8	9.6	249	3.89	44.1	0.6	5.2	7.8	4.9	0.01	0.45	0.31	13	0.01	0.024
072791	Soil	0.30	20.02	15.06	63.2	91	26.4	10.7	383	2.83	20.7	0.8	3.7	7.0	20.8	0.07	0.25	0.24	12	0.44	0.042
072792	Soil	0.83	40.79	18.23	85.4	62	32.6	8.8	234	4.61	14.2	0.7	4.2	7.5	9.0	0.04	0.40	0.54	21	0.04	0.019
072793	Soil	0.44	125.07	63.78	39.4	1206	29.3	29.7	1095	2.06	14.4	8.6	2.9	2.9	86.5	0.20	0.34	0.36	10	1.83	0.126
072794	Soil	0.62	38.72	25.51	79.1	272	28.8	13.2	340	3.90	10.6	1.7	1.0	7.9	10.8	0.15	0.35	0.41	21	0.10	0.030
072795	Soil	0.36	27.79	20.10	66.2	99	25.0	13.0	489	3.05	25.8	1.9	2.5	6.2	21.5	0.05	0.37	0.33	13	0.49	0.039
072796	Soil	0.57	28.22	26.39	76.9	150	24.7	12.9	306	3.64	75.2	0.8	2.4	6.8	6.2	0.26	0.76	0.38	18	0.08	0.028
072797	Soil	0.17	10.86	9.63	73.1	137	17.7	7.1	341	2.30	283.3	0.5	28.6	4.1	14.5	0.03	0.26	0.20	12	0.26	0.027
072798	Soil	0.27	36.78	22.62	78.6	248	37.1	14.4	482	3.67	92.1	1.0	6.7	6.2	24.6	0.09	0.71	0.40	16	0.40	0.042
072799	Soil	0.37	25.91	14.91	65.7	194	56.1	9.7	447	2.85	38.7	1.1	5.9	4.6	20.7	0.05	0.32	0.31	18	0.27	0.032
072800	Soil	0.58	14.83	16.44	91.9	58	19.5	7.6	278	4.07	50.4	0.5	0.4	8.1	7.6	0.07	0.50	0.35	25	0.07	0.035
072851	Soil	0.50	17.16	11.21	56.8	87	16.1	7.4	250	3.47	138.3	0.5	2.2	5.1	6.2	0.07	0.50	0.35	24	0.05	0.041
072852	Soil	0.50	82.46	41.35	66.5	113	29.3	10.9	326	3.01	23.7	1.5	8.1	6.3	19.9	0.02	0.16	0.34	14	0.15	0.035
072853	Soil	0.22	42.66	28.32	25.1	155	10.8	3.9	84	1.17	10.5	0.8	1.2	3.1	19.4	0.06	0.09	0.28	13	0.23	0.024
072854	Soil	0.32	45.13	23.74	51.2	174	24.9	17.2	726	2.82	44.9	1.1	2.3	4.5	39.2	0.10	0.20	0.31	16	0.67	0.039
072855	Soil	0.26	18.72	12.19	69.2	61	24.8	8.9	493	2.95	37.7	0.4	9.3	5.7	6.2	0.05	0.38	0.24	12	0.06	0.036
072856	Soil	0.25	28.68	18.11	76.7	13	33.6	12.0	469	3.72	31.6	0.7	7.7	9.9	4.4	0.01	0.37	0.30	14	0.02	0.026
072857	Soil	0.66	46.48	57.67	98.1	135	37.3	46.4	1469	4.03	67.2	4.7	9.2	5.3	32.0	0.11	0.41	0.37	14	0.65	0.094
072858	Soil	0.45	105.42	99.68	38.8	1065	29.1	12.7	126	2.86	17.9	2.4	2.0	2.1	31.4	0.27	0.16	0.45	17	0.35	0.051
072859	Soil	0.23	9.40	15.75	26.8	63	9.8	4.2	69	1.18	2.7	0.4	0.8	3.6	6.1	0.04	0.11	0.34	13	0.04	0.015
072860	Soil	0.24	12.23	12.61	60.8	38	21.4	8.2	202	2.58	17.0	0.6	2.3	5.9	12.8	0.03	0.20	0.26	17	0.09	0.013
070341	Soil	0.62	50.28	32.26	106.0	35	47.4	23.4	698	4.99	23.8	1.5	2.9	9.3	6.1	0.05	0.72	0.52	15	0.07	0.059
070342	Soil	0.50	21.73	17.99	69.8	73	26.4	9.0	398	3.77	21.6	0.8	1.1	4.6	4.5	0.05	0.43	0.38	18	0.03	0.092
070343	Soil	0.68	24.20	23.75	76.7	59	32.1	15.0	592	4.30	44.0	0.8	1.4	6.6	4.9	0.09	0.50	0.47	19	0.04	0.075
070344	Soil	0.85	48.47	25.52	98.5	52	45.3	18.6	639	4.62	36.8	4.7	4.2	8.8	4.9	0.04	0.82	0.48	15	0.05	0.050
070345	Soil	0.49	25.37	15.44	60.6	34	28.6	9.3	302	3.27	19.9	0.6	1.5	3.4	7.6	0.06	0.44	0.34	16	0.11	0.047
070346	Soil	0.48	26.50	18.67	80.4	91	37.9	13.4	361	4.06	21.0	0.7	1.4	5.7	5.5	0.01	0.45	0.33	15	0.05	0.033



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**Project:** NA-16176  
**Report Date:** September 19, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
072897	Soil	17.5	13.1	0.24	19.8	0.005	<1	0.80	0.008	0.03	0.1	0.8	0.03	<0.02	10	0.1	0.08	4.4	1.24	<0.1	<0.02
072898	Soil	23.0	29.9	0.86	27.4	0.002	<1	2.13	0.004	0.03	<0.1	1.8	0.02	<0.02	6	0.1	0.05	5.6	0.77	<0.1	0.06
072899	Soil	21.2	27.9	0.64	32.5	0.004	<1	1.83	0.003	0.03	0.1	1.7	0.04	<0.02	11	<0.1	0.07	5.9	1.11	<0.1	0.04
072900	Soil	26.5	23.5	0.56	34.6	0.001	<1	1.62	0.005	0.04	<0.1	1.4	0.04	<0.02	10	0.1	0.06	5.0	1.08	<0.1	0.03
072791	Soil	19.5	19.7	0.56	38.1	0.006	<1	1.41	0.005	0.06	0.1	1.7	0.05	0.02	17	0.2	0.04	4.2	1.55	<0.1	0.04
072792	Soil	19.1	31.6	0.73	29.2	0.008	<1	1.97	0.004	0.03	0.1	1.9	0.05	<0.02	8	0.2	0.12	7.0	3.44	<0.1	0.07
072793	Soil	20.7	17.2	0.31	59.4	0.006	2	1.71	0.010	0.05	<0.1	3.5	0.07	0.12	106	1.5	0.04	3.7	9.68	<0.1	0.10
072794	Soil	29.8	26.7	0.51	44.8	0.002	<1	1.79	0.006	0.05	<0.1	1.9	0.05	<0.02	16	0.2	0.07	7.8	5.42	<0.1	0.04
072795	Soil	19.5	20.7	0.53	52.3	0.005	1	1.57	0.006	0.05	0.1	2.2	0.05	0.03	16	0.2	0.05	4.8	2.50	<0.1	0.04
072796	Soil	24.3	20.6	0.43	23.3	0.004	1	1.43	0.005	0.04	0.1	1.3	0.04	<0.02	12	0.2	0.05	5.4	2.61	<0.1	0.04
072797	Soil	17.4	17.5	0.43	46.9	0.004	<1	1.27	0.007	0.05	0.2	1.3	0.05	<0.02	10	0.1	0.03	4.8	1.83	<0.1	0.02
072798	Soil	21.2	28.2	0.66	42.2	0.003	<1	1.98	0.006	0.04	0.2	2.0	0.05	0.03	18	0.2	0.06	6.2	3.83	<0.1	0.06
072799	Soil	21.1	21.4	0.53	52.8	0.011	<1	1.55	0.005	0.03	0.2	1.9	0.05	0.02	23	0.3	0.05	5.0	5.18	<0.1	0.02
072800	Soil	33.2	24.0	0.46	31.1	0.004	<1	1.45	0.007	0.03	<0.1	1.3	0.04	<0.02	10	0.1	0.07	8.4	6.10	<0.1	0.02
072851	Soil	27.6	18.3	0.30	26.1	0.006	<1	0.99	0.006	0.05	0.2	1.1	0.04	<0.02	16	<0.1	0.09	7.1	3.11	<0.1	<0.02
072852	Soil	25.7	25.6	0.72	42.8	0.005	<1	1.71	0.005	0.04	0.1	1.7	0.04	<0.02	8	0.2	0.04	5.3	5.81	<0.1	<0.02
072853	Soil	12.4	14.5	0.30	55.2	0.005	<1	1.09	0.014	0.04	0.1	1.4	0.10	0.02	16	<0.1	0.03	4.6	2.42	<0.1	<0.02
072854	Soil	17.6	24.5	0.49	83.1	0.005	<1	1.60	0.009	0.09	0.2	2.6	0.06	0.03	16	0.2	0.04	5.0	2.77	<0.1	0.04
072855	Soil	27.3	20.0	0.55	25.9	0.004	<1	1.38	0.004	0.06	0.3	1.3	0.04	<0.02	10	<0.1	0.04	4.4	1.08	<0.1	0.03
072856	Soil	38.1	28.3	0.77	31.5	0.003	<1	1.99	0.005	0.09	0.1	2.0	0.04	<0.02	6	0.4	0.04	5.3	1.05	<0.1	0.03
072857	Soil	17.1	28.6	0.51	104.8	0.004	1	2.93	0.008	0.09	0.3	3.0	0.07	0.05	39	0.8	0.05	4.9	5.63	<0.1	0.11
072858	Soil	10.2	18.0	0.21	81.8	0.009	<1	1.45	0.014	0.04	0.2	1.4	0.07	0.04	30	0.4	0.03	5.3	2.94	<0.1	<0.02
072859	Soil	24.8	11.4	0.23	24.3	0.008	<1	0.79	0.004	0.03	0.1	0.8	0.05	<0.02	13	<0.1	0.03	3.8	1.74	<0.1	<0.02
072860	Soil	22.9	20.4	0.50	40.0	0.006	<1	1.50	0.005	0.04	0.2	1.5	0.06	<0.02	<5	0.2	0.03	4.6	2.31	<0.1	0.02
070341	Soil	20.6	34.7	0.93	28.5	0.002	<1	2.35	0.003	0.03	<0.1	2.1	0.04	<0.02	15	0.2	0.08	6.2	2.84	<0.1	0.07
070342	Soil	20.4	23.6	0.54	36.0	0.004	<1	1.55	0.007	0.03	<0.1	1.2	0.04	<0.02	13	0.2	0.05	6.1	0.91	<0.1	0.03
070343	Soil	19.4	30.1	0.72	24.5	0.004	<1	1.74	0.006	0.03	<0.1	1.4	0.02	<0.02	24	0.3	0.08	6.5	1.64	<0.1	0.05
070344	Soil	19.4	34.3	0.95	28.8	0.001	<1	2.09	0.003	0.03	<0.1	2.7	0.02	<0.02	12	0.4	0.07	5.6	1.40	<0.1	0.09
070345	Soil	15.7	24.9	0.64	20.5	0.004	<1	1.43	0.008	0.03	<0.1	1.1	0.02	<0.02	10	0.2	0.05	4.9	0.93	<0.1	0.03
070346	Soil	19.2	30.6	0.79	16.4	0.003	<1	1.86	0.003	0.04	<0.1	1.5	0.02	<0.02	9	0.2	0.05	5.3	0.73	<0.1	0.03



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**Project:** NA-16176  
**Report Date:** September 19, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000237.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	2
072897	Soil	0.37	4.5	0.8	<0.05	0.4	1.36	32.7	0.02	<1	0.1	18.2	<10	<2
072898	Soil	0.11	3.8	0.4	<0.05	2.6	2.68	46.1	<0.02	<1	0.4	67.8	<10	<2
072899	Soil	0.39	6.6	0.5	<0.05	2.8	1.88	42.0	0.02	<1	0.3	56.7	<10	<2
072900	Soil	0.15	4.8	0.3	<0.05	2.1	1.68	54.3	<0.02	<1	0.3	40.0	<10	<2
072791	Soil	0.63	7.5	0.2	<0.05	1.9	3.35	39.4	<0.02	<1	0.3	41.2	<10	<2
072792	Soil	0.54	4.6	0.5	<0.05	3.9	2.00	34.4	0.02	<1	0.4	61.5	<10	<2
072793	Soil	0.61	5.8	0.2	<0.05	3.9	37.49	21.5	0.04	<1	1.2	27.7	<10	<2
072794	Soil	0.39	8.5	0.6	<0.05	2.3	4.69	52.2	<0.02	<1	0.4	60.3	<10	<2
072795	Soil	0.74	6.3	0.2	<0.05	2.0	4.80	38.1	<0.02	<1	0.4	50.6	<10	<2
072796	Soil	0.52	6.8	0.5	<0.05	3.4	1.92	47.5	<0.02	<1	0.4	42.4	<10	<2
072797	Soil	0.52	7.5	0.3	<0.05	0.8	1.79	32.5	<0.02	<1	0.2	34.3	<10	<2
072798	Soil	0.44	8.6	0.3	<0.05	2.1	3.49	41.7	0.02	<1	0.6	73.8	<10	<2
072799	Soil	0.81	7.5	0.4	<0.05	0.9	5.12	40.9	<0.02	<1	0.5	51.8	<10	<2
072800	Soil	0.46	6.6	0.6	<0.05	1.4	1.53	66.8	<0.02	<1	0.2	44.4	<10	<2
072851	Soil	0.63	9.1	0.5	<0.05	0.3	1.47	53.7	<0.02	<1	0.1	22.3	<10	<2
072852	Soil	0.37	5.4	0.4	<0.05	0.7	3.53	51.2	<0.02	<1	1.0	59.3	<10	<2
072853	Soil	0.80	6.4	0.5	<0.05	0.8	1.95	23.6	<0.02	<1	0.5	26.7	<10	<2
072854	Soil	0.79	11.4	0.3	<0.05	1.6	4.56	33.0	<0.02	<1	0.6	39.4	<10	<2
072855	Soil	0.29	7.4	0.3	<0.05	0.8	2.13	54.6	<0.02	<1	0.2	39.7	<10	<2
072856	Soil	0.15	5.7	0.4	<0.05	1.8	3.19	73.8	<0.02	<1	0.4	57.8	<10	<2
072857	Soil	0.60	10.4	0.3	<0.05	3.7	8.69	36.9	0.03	<1	1.5	52.5	<10	<2
072858	Soil	1.13	5.2	0.5	<0.05	0.9	3.74	19.6	0.03	<1	1.2	26.6	<10	<2
072859	Soil	0.66	4.0	0.4	<0.05	0.2	1.53	44.7	<0.02	<1	0.2	19.5	<10	<2
072860	Soil	0.60	7.4	0.4	<0.05	1.5	2.72	46.0	<0.02	<1	0.3	41.7	<10	<2
070341	Soil	0.05	3.6	0.5	<0.05	2.4	2.94	41.2	<0.02	<1	0.4	75.7	<10	<2
070342	Soil	0.24	6.3	0.6	<0.05	1.3	1.74	41.2	<0.02	<1	0.2	36.0	<10	<2
070343	Soil	0.21	4.8	0.5	<0.05	1.7	1.75	37.0	<0.02	<1	0.3	49.7	<10	<2
070344	Soil	0.06	3.2	0.3	<0.05	3.0	5.11	38.8	0.02	<1	0.5	70.1	<10	<2
070345	Soil	0.14	4.0	0.5	<0.05	1.1	1.70	29.5	<0.02	<1	0.2	41.8	<10	<2
070346	Soil	0.12	3.9	0.5	<0.05	1.3	1.93	38.5	<0.02	<1	0.3	62.7	<10	<2



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**Project:** NA-16176  
**Report Date:** September 19, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000237.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
070347	Soil	0.70	38.09	31.26	81.1	184	32.3	20.6	1420	3.71	16.6	1.1	2.9	2.6	10.6	0.12	0.41	0.45	15	0.11	0.102	
070348	Soil	0.67	21.89	21.63	81.4	75	32.6	11.8	369	4.45	21.6	0.8	1.3	6.4	6.0	0.08	0.42	0.41	19	0.04	0.058	
070349	Soil	0.61	18.90	24.63	53.9	188	18.6	14.0	888	2.43	19.8	0.7	1.1	1.0	13.5	0.23	0.33	0.37	11	0.15	0.086	
070350	Soil	0.68	22.90	28.47	68.0	176	24.0	17.4	956	3.10	24.7	0.8	2.5	1.9	13.3	0.16	0.37	0.46	14	0.13	0.077	
070351	Soil	0.71	39.21	28.28	100.9	113	39.5	15.3	274	3.67	21.7	1.4	2.9	10.4	25.4	0.10	0.55	0.40	17	0.31	0.070	
070352	Soil	0.23	22.03	9.96	48.3	61	20.3	9.1	1058	2.38	2.9	0.6	1.4	10.5	11.3	0.03	0.22	0.13	6	0.19	0.015	
070353	Soil	0.36	46.97	26.90	118.6	118	39.7	26.3	632	4.03	9.3	1.5	4.4	15.1	12.5	0.02	0.96	0.37	13	0.19	0.039	
070354	Soil	0.53	43.56	51.14	89.0	95	34.0	20.8	640	3.65	18.9	0.8	3.4	19.2	11.0	0.03	0.63	0.42	11	0.18	0.030	
070355	Soil	0.38	42.38	26.88	79.3	55	43.3	22.9	623	4.03	28.4	0.4	2.8	9.9	13.4	0.06	0.56	0.41	21	0.67	0.056	
070356	Soil	0.63	93.85	36.00	77.7	135	26.0	12.6	577	2.90	19.1	0.5	9.7	3.1	20.3	0.62	22.42	0.29	12	1.16	0.092	
070357	Soil	0.33	23.67	11.60	37.9	42	17.8	6.8	340	2.04	9.2	0.5	20.2	2.2	16.6	0.14	0.98	0.18	11	0.57	0.077	
070358	Soil	0.35	32.93	13.12	50.3	42	33.7	12.1	640	2.39	3.8	0.3	9.5	5.0	17.1	0.36	4.90	0.15	11	1.07	0.095	
070359	Soil	2.31	68.22	77.89	92.5	108	52.9	24.4	940	4.74	12.4	1.1	15.9	15.4	5.4	0.03	0.60	0.92	19	0.07	0.062	
070360	Soil	0.99	117.71	159.52	104.0	126	47.5	34.5	1387	4.52	13.1	3.0	<0.2	10.6	5.3	0.03	0.43	1.32	15	0.05	0.057	
070361	Soil	0.44	30.01	29.44	63.4	61	24.2	11.2	566	3.13	23.0	1.2	4.0	5.1	5.1	0.08	0.63	0.55	15	0.05	0.090	
070362	Soil	0.61	17.99	34.58	43.9	53	15.8	13.0	706	1.78	13.5	1.0	5.9	3.1	7.5	0.06	0.33	0.19	11	0.09	0.073	
070363	Soil	1.76	107.05	162.43	134.8	165	45.9	53.3	1784	4.19	60.8	3.6	8.0	10.5	9.8	0.17	1.33	0.92	15	0.06	0.070	
070364	Soil	1.06	52.41	35.82	87.8	92	41.6	18.5	744	4.29	28.0	3.6	4.6	7.2	27.6	0.04	0.70	0.46	16	0.33	0.086	
070365	Soil	0.80	45.08	38.78	68.9	126	28.2	17.7	802	3.76	24.7	1.5	2.6	2.8	11.1	0.12	0.61	0.48	17	0.15	0.144	
070366	Soil	0.73	72.79	42.38	104.2	77	51.3	29.0	1480	4.76	26.2	2.0	2.0	8.5	13.9	0.05	0.55	0.68	16	0.12	0.066	
070367	Soil	1.61	67.38	39.83	102.2	166	45.5	25.6	839	4.72	341.4	5.8	3.4	9.7	17.0	0.02	1.41	0.71	12	0.15	0.055	
070368	Soil	0.45	16.65	24.15	36.1	165	16.5	14.2	1442	2.33	9.4	0.5	1.2	1.0	5.0	0.04	0.21	0.26	11	0.03	0.091	
070369	Soil	0.39	31.44	21.35	67.0	78	34.6	13.7	368	3.00	12.6	0.8	9.7	5.0	7.2	0.05	0.31	0.28	13	0.10	0.045	
070370	Soil	0.73	31.16	17.08	39.0	239	13.2	18.6	2412	1.26	6.6	0.7	0.9	0.2	7.2	0.19	0.22	0.21	8	0.06	0.064	
070371	Soil	1.73	25.31	27.17	61.5	76	19.0	7.5	130	3.07	40.3	1.0	13.9	5.3	14.9	0.04	1.72	0.44	9	0.11	0.041	
070372	Soil	1.03	24.05	33.90	68.6	158	20.0	8.5	276	4.54	44.2	1.8	8.8	6.9	4.8	0.08	0.88	0.41	21	<0.01	0.084	
070373	Soil	0.43	24.18	23.38	85.0	24	42.4	16.1	572	3.91	20.8	0.7	5.4	5.0	4.3	0.07	0.33	0.45	19	0.04	0.088	
070374	Soil	0.50	20.34	18.90	47.0	63	19.3	10.9	557	2.33	17.9	0.8	2.4	1.1	7.6	0.07	0.46	0.24	13	0.06	0.074	
070375	Soil	0.36	12.54	14.10	39.1	55	15.9	10.5	568	1.92	10.9	0.6	1.8	1.0	5.4	0.02	0.30	0.20	11	0.04	0.057	
070376	Soil	0.63	38.21	36.01	86.2	77	36.5	15.4	564	4.27	38.4	1.7	3.1	3.4	6.3	0.10	0.80	0.46	18	0.05	0.087	



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**Project:** NA-16176  
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# CERTIFICATE OF ANALYSIS

# WHI16000237.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
070347	Soil	23.0	23.5	0.47	60.0	0.006	<1	1.40	0.005	0.05	<0.1	1.0	0.04	0.02	19	0.3	0.07	5.0	1.30	<0.1	<0.02
070348	Soil	22.4	27.2	0.65	20.8	0.004	<1	1.74	0.003	0.04	<0.1	1.2	0.04	<0.02	16	0.3	0.07	6.0	0.89	<0.1	0.02
070349	Soil	10.4	15.1	0.35	72.8	0.005	<1	1.16	0.008	0.04	<0.1	0.5	0.04	0.05	24	0.1	0.06	4.2	1.21	<0.1	0.03
070350	Soil	14.4	20.1	0.49	76.4	0.006	<1	1.48	0.008	0.04	<0.1	0.8	0.04	0.04	23	0.2	0.07	5.0	1.50	<0.1	0.03
070351	Soil	16.6	32.1	0.82	34.1	0.003	<1	1.80	0.007	0.04	<0.1	2.7	0.03	0.03	25	0.5	0.04	4.6	0.61	<0.1	0.08
070352	Soil	12.3	14.6	0.48	17.0	<0.001	<1	1.32	0.002	0.03	<0.1	1.6	0.02	<0.02	20	0.2	<0.02	2.7	0.57	<0.1	0.04
070353	Soil	14.7	29.6	0.88	14.7	<0.001	<1	2.14	0.002	0.04	<0.1	1.6	0.02	<0.02	15	0.2	0.03	5.3	0.73	<0.1	0.06
070354	Soil	12.7	27.3	0.78	29.8	<0.001	<1	1.82	0.002	0.03	<0.1	1.6	<0.02	<0.02	11	0.2	0.05	4.8	0.53	<0.1	0.06
070355	Soil	11.5	38.4	1.63	32.9	<0.001	<1	2.53	0.002	0.05	<0.1	2.8	<0.02	0.03	6	0.1	0.06	6.4	0.89	<0.1	0.10
070356	Soil	11.5	15.3	0.68	71.4	0.003	1	0.89	0.007	0.02	<0.1	4.0	<0.02	0.05	19	0.3	0.04	2.3	0.33	<0.1	0.04
070357	Soil	10.3	10.6	0.51	64.0	0.006	1	1.02	0.019	0.03	<0.1	3.2	0.02	0.06	27	0.4	0.03	2.4	0.46	<0.1	0.05
070358	Soil	13.4	17.2	0.88	58.3	0.003	<1	0.88	0.003	0.03	<0.1	6.5	<0.02	0.03	20	0.2	0.03	1.8	0.41	<0.1	<0.02
070359	Soil	26.7	41.7	1.56	32.0	0.002	<1	2.71	0.004	0.03	<0.1	2.8	0.02	<0.02	26	0.2	0.12	7.0	1.47	<0.1	0.05
070360	Soil	19.0	34.4	1.13	33.9	0.002	<1	2.26	0.007	0.03	<0.1	2.6	0.02	<0.02	20	0.2	0.16	6.2	3.37	<0.1	0.05
070361	Soil	9.9	22.7	0.59	29.9	0.005	1	1.55	0.009	0.03	<0.1	1.6	0.03	0.03	17	0.2	0.06	4.7	1.88	<0.1	0.06
070362	Soil	7.6	15.0	0.31	52.5	0.005	<1	1.14	0.013	0.03	<0.1	0.9	0.03	0.03	33	<0.1	0.02	3.2	0.88	<0.1	0.02
070363	Soil	16.2	28.6	0.81	48.6	0.003	<1	2.07	0.004	0.03	<0.1	2.3	0.07	<0.02	28	0.2	0.15	5.5	1.96	<0.1	0.07
070364	Soil	12.0	34.4	1.02	40.3	0.003	2	2.33	0.007	0.04	<0.1	2.2	0.04	0.06	26	0.3	0.08	5.9	2.11	<0.1	0.15
070365	Soil	11.2	26.4	0.63	35.2	0.005	<1	1.74	0.006	0.04	<0.1	1.3	<0.02	0.07	51	0.2	0.06	5.8	2.13	<0.1	0.05
070366	Soil	18.4	35.7	1.16	24.8	0.002	<1	2.60	0.005	0.03	<0.1	2.3	0.04	<0.02	13	0.2	0.13	6.5	1.27	<0.1	0.04
070367	Soil	18.5	27.6	0.83	36.0	<0.001	<1	1.95	0.004	0.02	<0.1	2.5	0.04	0.02	15	0.4	0.10	5.6	2.36	<0.1	0.11
070368	Soil	8.4	15.8	0.36	17.1	0.005	<1	0.91	0.011	0.02	<0.1	0.6	<0.02	0.02	25	0.2	0.05	3.3	0.79	<0.1	0.03
070369	Soil	15.3	27.4	0.84	22.9	0.005	<1	1.61	0.013	0.03	<0.1	1.3	<0.02	<0.02	17	<0.1	0.05	5.0	0.94	<0.1	<0.02
070370	Soil	4.7	6.7	0.18	31.1	0.005	<1	0.74	0.021	0.02	<0.1	0.2	0.03	0.03	20	0.2	0.04	3.6	0.82	<0.1	<0.02
070371	Soil	39.0	10.8	0.07	26.9	<0.001	<1	0.56	0.004	0.04	0.1	1.1	0.08	0.02	18	0.4	0.13	2.4	2.73	<0.1	<0.02
070372	Soil	21.8	17.9	0.16	21.8	0.005	<1	1.05	0.002	0.03	0.2	1.1	0.07	0.02	40	0.4	0.09	5.5	1.30	<0.1	<0.02
070373	Soil	18.5	45.6	1.00	26.7	0.003	<1	2.18	0.003	0.02	<0.1	1.3	0.03	0.03	14	0.1	0.07	6.2	1.42	<0.1	0.06
070374	Soil	9.1	19.5	0.44	29.3	0.007	<1	1.24	0.017	0.03	<0.1	0.7	0.03	0.03	29	0.2	0.06	4.2	1.66	<0.1	0.02
070375	Soil	9.2	15.5	0.38	19.6	0.008	<1	0.95	0.018	0.03	<0.1	0.7	<0.02	0.03	24	<0.1	0.02	3.7	1.45	<0.1	0.04
070376	Soil	10.0	34.5	0.85	27.7	0.004	<1	2.07	0.006	0.03	<0.1	1.4	0.03	0.03	19	0.3	0.08	6.4	3.24	<0.1	0.11



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
070347	Soil	0.20	8.3	0.5	<0.05	0.7	2.03	46.6	<0.02	<1	0.4	35.9	<10	<2
070348	Soil	0.22	7.3	0.5	<0.05	1.1	1.75	44.0	<0.02	<1	0.3	54.4	<10	<2
070349	Soil	0.20	5.9	0.8	<0.05	0.6	1.33	20.0	<0.02	<1	0.2	26.0	<10	<2
070350	Soil	0.24	7.0	0.5	<0.05	0.6	1.76	27.9	<0.02	<1	0.3	37.4	<10	<2
070351	Soil	0.15	3.8	1.2	<0.05	4.3	8.14	32.9	0.02	<1	0.5	48.2	<10	<2
070352	Soil	<0.02	2.0	1.4	<0.05	2.4	4.79	25.5	<0.02	<1	0.3	27.7	<10	<2
070353	Soil	<0.02	2.0	0.8	<0.05	4.0	4.15	29.6	0.03	<1	0.5	58.6	<10	<2
070354	Soil	0.02	2.0	1.3	<0.05	4.1	3.37	25.0	0.02	<1	0.3	53.5	<10	<2
070355	Soil	<0.02	2.9	0.6	<0.05	5.6	4.43	20.7	<0.02	<1	0.6	82.3	<10	<2
070356	Soil	0.17	2.0	0.7	<0.05	1.6	13.28	22.7	0.03	<1	0.7	21.8	<10	<2
070357	Soil	0.25	2.7	0.7	<0.05	1.5	7.25	20.5	0.02	<1	0.3	16.5	<10	<2
070358	Soil	0.10	3.3	1.5	<0.05	0.6	12.09	27.0	0.03	<1	0.5	24.6	<10	<2
070359	Soil	0.03	2.6	1.1	<0.05	2.3	3.85	54.7	0.02	<1	0.7	93.5	<10	<2
070360	Soil	0.03	2.9	1.9	<0.05	2.6	4.44	37.6	<0.02	<1	0.7	78.8	<10	<2
070361	Soil	0.14	4.1	0.7	<0.05	1.5	2.46	19.4	<0.02	<1	0.3	44.9	<10	<2
070362	Soil	0.19	4.0	1.7	<0.05	1.3	2.79	15.5	<0.02	<1	0.3	24.4	<10	<2
070363	Soil	0.10	3.9	0.5	<0.05	2.0	4.66	32.3	0.03	<1	0.9	60.8	<10	<2
070364	Soil	0.14	4.5	1.6	<0.05	5.0	4.54	22.8	<0.02	<1	0.5	67.4	<10	<2
070365	Soil	0.21	6.3	0.8	<0.05	1.7	3.15	21.7	<0.02	<1	0.6	44.4	<10	<2
070366	Soil	0.04	2.2	2.1	<0.05	2.2	4.63	35.6	0.02	<1	0.7	83.5	<10	<2
070367	Soil	0.04	3.7	0.5	<0.05	4.3	4.96	34.1	0.03	<1	0.4	61.0	<10	<2
070368	Soil	0.07	2.1	1.0	<0.05	1.0	0.99	15.5	<0.02	<1	0.1	23.9	<10	<2
070369	Soil	0.12	1.8	0.5	<0.05	0.6	2.24	29.3	<0.02	<1	0.4	52.4	<10	<2
070370	Soil	0.14	2.3	0.3	<0.05	0.3	0.77	9.3	<0.02	<1	0.2	11.4	<10	<2
070371	Soil	0.06	6.7	0.4	<0.05	0.2	1.79	70.6	0.02	<1	0.3	7.3	<10	<2
070372	Soil	0.57	6.3	0.8	<0.05	0.6	1.96	45.0	0.02	<1	0.3	15.3	<10	<2
070373	Soil	0.18	4.5	0.6	<0.05	2.1	2.08	36.8	<0.02	<1	0.4	60.7	<10	<2
070374	Soil	0.17	3.0	1.0	<0.05	1.0	1.39	17.3	<0.02	<1	0.3	27.7	<10	<2
070375	Soil	0.13	2.8	0.8	<0.05	1.0	0.92	16.9	<0.02	<1	0.1	24.4	<10	<2
070376	Soil	0.17	3.7	0.5	<0.05	3.4	1.75	21.4	0.02	<1	0.4	60.1	<10	<2



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**Project:** NA-16176  
**Report Date:** September 19, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000237.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
070377	Soil	0.43	45.15	34.28	97.8	111	41.6	15.3	377	4.12	16.5	1.9	4.5	10.9	23.3	0.05	0.58	0.46	12	0.31	0.052
070378	Soil	0.61	112.14	953.97	374.8	2100	53.5	22.8	658	5.31	1302.2	5.7	1124.3	7.6	26.3	1.89	2.31	0.58	17	0.19	0.053
070379	Soil	1.41	89.77	231.75	105.7	532	28.5	11.9	363	5.05	131.2	2.7	13.4	5.7	84.3	0.38	1.68	0.89	20	0.02	0.096
070380	Soil	1.11	361.50	86.52	156.2	502	80.8	40.0	645	4.85	628.3	15.6	15.2	8.5	18.3	0.16	1.51	0.70	17	0.07	0.108
070381	Soil	0.63	38.68	29.87	94.7	137	41.1	15.9	649	4.95	61.6	0.8	3.9	6.7	4.8	0.08	0.58	0.44	20	0.03	0.074
070382	Soil	0.72	62.78	49.16	90.6	83	33.2	21.7	745	4.02	55.3	1.1	5.6	3.9	5.3	0.11	0.66	0.42	19	0.05	0.099
070383	Soil	0.64	18.67	15.61	48.7	131	14.9	8.9	294	2.18	48.4	0.6	6.9	0.7	5.2	0.22	0.29	0.25	13	0.03	0.078
070384	Soil	0.73	30.90	31.34	67.1	125	26.1	17.3	623	3.36	28.5	1.2	2.1	3.6	4.9	0.07	0.47	0.41	17	0.03	0.051
070385	Soil	1.01	57.69	43.76	89.8	92	38.4	24.1	864	4.54	34.6	1.6	5.3	5.7	5.2	0.10	0.69	0.52	21	0.04	0.105
070386	Soil	0.92	120.35	103.51	94.6	464	43.0	22.5	598	4.46	153.9	14.6	6.8	10.3	33.3	0.06	1.25	0.78	15	0.21	0.064
070387	Soil	0.56	32.09	27.87	59.5	92	24.9	18.8	583	2.73	33.4	1.2	2.6	1.2	9.3	0.10	0.37	0.28	13	0.11	0.077
070388	Soil	0.81	34.48	28.33	91.4	144	38.3	22.3	833	4.47	45.9	1.2	3.6	3.7	10.9	0.17	0.56	0.49	17	0.07	0.103
070389	Soil	0.49	65.73	31.11	90.4	68	49.9	23.3	869	3.80	27.7	1.8	15.9	8.1	13.3	0.18	0.76	0.37	15	0.51	0.076
070390	Soil	0.65	38.97	30.02	85.9	248	42.9	20.4	586	4.39	25.4	1.4	2.9	6.4	6.2	0.10	0.63	0.50	16	0.07	0.061
070391	Soil	0.54	47.92	31.17	90.8	128	46.7	21.5	932	4.48	25.4	1.1	3.4	8.5	5.5	0.06	0.63	0.49	16	0.07	0.041
070392	Soil	0.70	36.14	28.04	88.6	83	39.6	19.7	557	4.44	22.9	0.9	2.0	7.1	6.7	0.09	0.80	0.52	15	0.07	0.059
070393	Soil	0.61	19.54	22.48	70.9	108	17.4	6.9	502	2.34	15.0	0.6	0.6	0.6	14.5	0.35	0.28	0.28	13	0.29	0.170
070394	Soil	0.36	18.02	13.12	40.9	140	13.1	12.1	1265	1.63	7.8	0.5	0.5	0.5	9.2	0.12	0.21	0.20	9	0.10	0.058
070395	Soil	0.53	20.67	29.13	56.8	103	19.4	10.2	481	2.51	11.1	0.9	0.4	0.9	12.4	0.18	0.20	0.28	14	0.16	0.070
070396	Soil	2.46	99.58	97.30	125.4	220	39.6	14.5	547	6.61	39.3	2.5	3.7	16.2	16.3	0.07	1.96	1.10	15	0.01	0.085
070397	Soil	0.67	43.90	23.09	71.3	119	30.7	10.8	323	4.17	15.5	1.2	2.8	8.6	6.5	0.04	0.53	0.48	10	<0.01	0.041
070398	Soil	0.50	27.67	34.11	91.3	1468	36.4	15.4	591	4.88	21.5	1.1	2.5	6.9	7.7	0.14	0.36	0.44	15	0.04	0.063
070399	Soil	0.49	44.11	24.64	88.9	139	31.7	11.3	267	4.60	5.6	1.0	2.0	11.5	2.8	0.02	0.44	0.40	13	<0.01	0.026
070400	Soil	0.98	32.01	36.88	53.9	315	13.1	4.7	237	4.37	12.0	0.8	1.9	6.8	7.3	0.04	0.71	0.48	19	0.02	0.066
070401	Soil	0.42	45.48	19.49	73.1	69	39.7	16.6	524	3.41	17.4	0.6	4.7	7.9	14.5	0.13	0.69	0.32	17	0.63	0.063
070402	Soil	0.48	40.15	19.61	80.3	71	43.2	15.3	442	3.56	15.1	0.8	2.1	8.0	14.9	0.13	0.53	0.33	18	0.48	0.073
070403	Soil	0.15	18.46	2.28	18.9	102	11.9	3.8	83	0.89	0.6	0.2	0.2	0.3	3.3	0.02	0.04	0.10	9	0.02	0.044
070404	Soil	0.21	6.85	8.78	60.7	23	61.6	17.4	1364	3.28	2.1	0.4	1.5	8.9	3.5	0.09	0.10	0.18	18	0.04	0.065
070405	Soil	0.31	23.65	9.36	35.0	34	18.9	8.5	1000	1.70	3.2	0.4	0.5	1.7	4.6	0.04	0.13	0.21	14	0.04	0.062
070406	Soil	0.29	141.32	23.51	111.5	67	52.8	25.0	838	4.15	2.1	3.0	45.4	11.0	12.8	0.01	0.12	0.59	15	0.13	0.051



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**Project:** NA-16176  
**Report Date:** September 19, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000237.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
070377	Soil	13.5	28.0	0.83	25.9	0.001	<1	1.98	0.003	0.03	<0.1	1.8	0.02	0.02	14	0.2	0.04	5.2	0.46	<0.1	0.15
070378	Soil	10.5	40.7	1.16	58.3	0.001	<1	2.81	0.004	0.03	<0.1	2.3	0.03	0.03	20	0.5	0.16	7.5	3.45	<0.1	0.08
070379	Soil	12.0	28.2	0.60	33.6	0.004	<1	1.84	0.011	0.04	<0.1	1.1	0.06	0.06	38	0.4	0.08	6.5	2.18	<0.1	0.06
070380	Soil	13.4	37.7	0.93	49.4	0.003	<1	2.78	0.005	0.04	<0.1	2.9	0.13	0.05	37	0.7	0.12	6.4	5.05	<0.1	0.18
070381	Soil	17.4	37.6	0.91	26.7	0.004	<1	2.25	0.003	0.03	<0.1	1.7	0.04	<0.02	30	0.4	0.06	6.8	1.08	<0.1	0.05
070382	Soil	16.7	29.3	0.71	29.3	0.006	<1	2.00	0.008	0.03	<0.1	1.3	0.04	<0.02	21	0.3	0.05	6.1	1.53	<0.1	0.05
070383	Soil	5.5	15.3	0.30	19.8	0.003	<1	0.95	0.009	0.02	<0.1	0.3	<0.02	0.04	23	0.1	0.03	3.6	0.92	<0.1	<0.02
070384	Soil	9.8	24.4	0.60	26.1	0.007	<1	1.65	0.009	0.03	<0.1	1.1	0.04	<0.02	32	0.2	0.05	5.7	1.53	<0.1	0.04
070385	Soil	12.5	35.3	0.81	32.2	0.004	<1	2.16	0.004	0.03	<0.1	1.6	0.05	0.02	28	0.2	0.07	6.8	2.19	<0.1	0.08
070386	Soil	17.0	39.0	0.95	43.5	<0.001	<1	2.41	0.005	0.03	<0.1	2.7	0.05	0.03	27	0.5	0.12	6.3	4.81	<0.1	0.14
070387	Soil	6.3	22.2	0.56	19.7	0.005	<1	1.52	0.014	0.03	<0.1	0.7	0.02	0.05	27	0.3	0.03	4.9	1.49	<0.1	0.03
070388	Soil	11.5	33.6	0.88	30.9	0.004	<1	2.13	0.003	0.03	<0.1	1.3	0.03	0.04	15	0.2	0.06	6.6	1.63	<0.1	0.08
070389	Soil	13.6	36.2	1.16	70.1	0.002	2	2.03	0.004	0.04	<0.1	2.6	0.03	0.05	42	0.3	0.08	5.2	1.16	<0.1	0.10
070390	Soil	15.6	32.6	0.85	19.1	0.003	<1	2.08	0.003	0.03	<0.1	1.8	0.03	<0.02	18	0.1	0.07	5.3	1.39	<0.1	0.06
070391	Soil	16.4	32.6	0.87	26.8	0.002	<1	2.16	0.003	0.04	<0.1	2.5	0.03	<0.02	20	0.2	0.08	5.4	1.03	<0.1	0.06
070392	Soil	16.7	28.6	0.78	35.7	0.002	<1	1.99	0.005	0.03	<0.1	1.8	0.03	<0.02	11	0.2	0.09	5.7	1.59	<0.1	0.05
070393	Soil	8.4	13.0	0.16	61.3	0.002	1	0.61	0.005	0.05	<0.1	0.3	0.03	0.05	76	0.1	0.04	3.6	0.67	<0.1	<0.02
070394	Soil	7.2	11.7	0.23	48.2	0.006	<1	1.12	0.016	0.03	<0.1	0.4	0.03	0.02	26	0.4	0.02	3.4	0.56	<0.1	0.03
070395	Soil	12.0	14.6	0.22	64.5	0.004	1	0.90	0.009	0.04	<0.1	0.5	0.04	0.03	48	0.2	0.06	4.1	1.10	<0.1	<0.02
070396	Soil	21.3	32.4	0.61	33.1	0.002	<1	1.96	0.006	0.05	<0.1	1.7	0.06	0.04	41	0.8	0.33	6.0	4.74	<0.1	0.08
070397	Soil	28.3	23.7	0.55	16.0	0.001	<1	1.62	0.002	0.03	<0.1	1.1	0.03	<0.02	18	0.3	0.11	4.1	1.28	<0.1	0.05
070398	Soil	20.9	28.3	0.61	26.5	0.003	<1	2.03	0.002	0.03	<0.1	1.4	0.03	<0.02	63	0.3	0.10	5.4	1.00	<0.1	0.06
070399	Soil	27.3	28.9	0.67	9.7	<0.001	<1	1.79	0.002	0.02	0.1	1.5	0.03	<0.02	21	0.3	0.04	4.9	2.00	<0.1	0.06
070400	Soil	21.7	22.4	0.31	31.1	0.009	1	1.34	0.008	0.03	0.3	1.0	0.07	0.02	34	0.6	0.06	5.7	3.03	<0.1	0.02
070401	Soil	13.9	34.4	1.36	27.3	0.001	1	1.85	0.002	0.03	<0.1	2.8	<0.02	0.02	8	0.3	0.06	4.8	0.35	<0.1	0.06
070402	Soil	14.1	40.3	1.20	26.5	0.002	1	1.94	0.003	0.03	<0.1	3.5	<0.02	0.03	23	0.3	0.05	5.1	0.36	<0.1	0.10
070403	Soil	8.1	14.3	0.34	13.9	0.004	<1	0.54	0.020	0.02	<0.1	0.3	<0.02	<0.02	19	<0.1	<0.02	2.4	0.54	<0.1	<0.02
070404	Soil	28.9	39.6	1.10	42.4	0.006	<1	1.74	0.003	0.03	<0.1	1.4	0.03	<0.02	39	0.1	0.03	5.3	1.68	<0.1	0.02
070405	Soil	12.1	17.1	0.54	33.1	0.010	<1	1.16	0.015	0.03	<0.1	0.9	0.04	0.03	43	0.3	0.04	3.5	1.25	<0.1	0.02
070406	Soil	12.5	30.8	1.22	59.5	0.003	<1	2.18	0.003	0.03	<0.1	2.5	0.03	<0.02	14	0.3	0.13	5.5	4.10	<0.1	0.05

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: NA-16176

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# CERTIFICATE OF ANALYSIS

WHI16000237.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
070377	Soil	0.04	2.3	0.5	<0.05	4.7	5.48	25.1	<0.02	<1	0.4	67.3	<10	<2
070378	Soil	0.05	3.3	0.8	<0.05	3.0	4.33	20.9	0.13	<1	0.6	86.2	<10	<2
070379	Soil	0.25	4.1	0.9	<0.05	2.5	2.21	22.8	0.04	<1	0.5	44.1	<10	<2
070380	Soil	0.19	4.9	0.4	<0.05	6.1	11.77	37.4	0.03	<1	1.6	72.0	<10	<2
070381	Soil	0.26	3.6	0.6	<0.05	2.3	2.10	33.6	<0.02	<1	0.3	61.7	<10	<2
070382	Soil	0.27	4.8	0.5	<0.05	2.1	2.03	33.7	0.02	<1	0.4	52.5	<10	<2
070383	Soil	0.15	2.8	0.7	<0.05	1.1	0.97	10.5	<0.02	<1	0.2	19.1	<10	<2
070384	Soil	0.30	4.8	0.5	<0.05	0.9	1.67	18.6	<0.02	<1	0.4	41.1	<10	<2
070385	Soil	0.21	4.8	0.8	<0.05	2.9	2.40	24.1	0.02	<1	0.4	57.8	<10	<2
070386	Soil	0.05	3.4	0.6	<0.05	6.1	11.91	31.6	0.03	<1	0.9	67.3	<10	<2
070387	Soil	0.23	3.1	1.0	<0.05	1.4	1.50	11.8	<0.02	<1	0.4	37.9	<10	<2
070388	Soil	0.21	4.3	0.4	<0.05	2.3	2.28	22.1	<0.02	<1	0.4	60.4	<10	<2
070389	Soil	0.07	2.1	0.6	<0.05	4.2	4.15	26.7	0.03	<1	0.5	76.5	<10	<2
070390	Soil	0.15	3.6	0.5	<0.05	1.8	3.06	31.4	0.02	<1	0.5	65.6	<10	<2
070391	Soil	0.09	2.9	0.5	<0.05	2.4	4.73	34.5	0.02	<1	0.4	69.2	<10	<2
070392	Soil	0.13	5.2	0.5	<0.05	1.9	2.76	32.0	0.03	<1	0.4	63.1	<10	<2
070393	Soil	0.21	5.6	0.7	<0.05	0.3	0.99	16.6	<0.02	<1	0.3	9.8	<10	<2
070394	Soil	0.25	3.4	0.4	<0.05	0.5	1.29	14.5	<0.02	<1	0.3	17.2	<10	<2
070395	Soil	0.27	4.8	0.6	<0.05	0.4	1.15	22.4	<0.02	<1	0.2	19.9	<10	<2
070396	Soil	0.08	5.8	0.6	<0.05	5.1	2.75	38.3	0.04	<1	0.8	47.1	<10	<2
070397	Soil	0.06	3.3	<0.1	<0.05	2.2	1.63	54.0	0.02	<1	0.4	47.6	<10	<2
070398	Soil	0.20	4.3	0.2	<0.05	2.0	1.83	37.5	<0.02	<1	0.4	52.4	<10	<2
070399	Soil	<0.02	2.5	<0.1	<0.05	3.4	1.51	56.0	<0.02	<1	0.2	50.2	<10	<2
070400	Soil	0.54	4.7	0.2	<0.05	1.5	1.54	42.8	0.02	<1	0.2	22.0	<10	<2
070401	Soil	<0.02	1.6	0.2	<0.05	2.8	5.32	26.0	<0.02	<1	0.3	58.4	<10	<2
070402	Soil	0.05	2.0	0.4	<0.05	3.8	6.46	26.3	<0.02	<1	0.4	63.0	<10	<2
070403	Soil	0.04	2.2	0.2	<0.05	0.2	0.50	14.9	<0.02	<1	<0.1	17.0	<10	<2
070404	Soil	0.14	4.0	0.3	<0.05	0.6	2.02	58.6	<0.02	<1	0.4	58.8	<10	<2
070405	Soil	0.16	3.7	0.2	<0.05	0.7	2.78	24.4	<0.02	<1	0.3	27.8	<10	<2
070406	Soil	<0.02	2.3	0.2	<0.05	3.4	4.06	25.7	<0.02	<1	1.5	70.1	<10	<2



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**Project:** NA-16176  
**Report Date:** September 19, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000237.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
070407	Soil	0.24	127.94	17.62	74.9	88	38.7	15.8	1881	2.92	1.2	0.7	1.8	10.7	5.4	0.07	0.12	0.32	16	0.07	0.070
070408	Soil	0.19	138.30	18.72	84.4	68	42.4	17.9	849	2.98	2.3	0.7	1.7	10.8	4.1	0.02	0.18	0.46	15	0.08	0.063
070409	Soil	1.60	134.60	166.49	116.6	154	55.3	51.0	1533	5.05	21.8	4.2	2.9	16.1	8.5	0.05	0.21	1.40	18	0.08	0.044
070410	Soil	0.79	81.74	97.65	103.0	67	46.3	25.2	957	4.38	19.7	2.5	1.3	10.1	6.6	0.03	0.21	0.72	16	0.05	0.044
070411	Soil	0.11	0.80	1.18	5.1	20	1.2	0.7	19	0.21	0.4	0.1	<0.2	<0.1	4.5	0.03	0.02	0.02	6	0.02	0.028
070412	Soil	0.76	27.65	24.51	69.8	38	26.2	13.9	495	3.75	38.7	1.0	2.7	5.0	6.3	0.11	0.61	0.35	21	0.04	0.066
070413	Soil	0.59	36.37	44.61	107.9	87	32.8	43.4	1304	2.70	48.6	2.0	4.2	12.1	8.6	0.13	0.67	0.29	12	0.09	0.059
070414	Soil	0.39	44.49	32.09	127.1	60	44.7	28.2	840	4.23	55.5	1.6	3.8	7.0	11.8	0.13	0.50	0.33	15	0.10	0.065
070415	Soil	1.01	37.20	44.27	87.4	68	31.7	18.2	831	3.66	44.6	1.2	4.3	4.7	7.7	0.11	0.68	0.41	24	0.07	0.109
070416	Soil	0.98	30.22	29.28	40.7	61	20.6	7.4	220	2.32	13.2	0.7	0.4	2.3	4.0	0.02	0.41	0.40	10	0.01	0.040
070417	Soil	0.47	31.17	25.41	64.5	73	23.4	11.1	510	2.72	8.9	0.9	1.5	4.9	5.3	0.04	0.34	0.29	12	0.04	0.077
070418	Soil	0.60	60.38	47.39	96.9	43	39.1	31.9	726	3.92	10.3	1.3	1.0	7.6	10.2	0.06	0.47	0.39	16	0.07	0.068
070419	Soil	0.84	29.95	24.23	65.9	64	25.4	11.8	434	3.60	25.7	1.1	2.1	2.2	7.6	0.09	0.76	0.36	21	0.03	0.080
070420	Soil	0.85	44.60	37.65	75.0	127	31.5	14.1	427	3.97	31.0	1.6	3.5	12.5	25.5	0.07	0.65	0.33	20	0.20	0.055
070421	Soil	0.46	60.73	59.60	197.9	175	59.9	29.9	692	3.90	787.9	1.6	52.9	14.9	22.0	0.78	1.20	0.32	28	0.40	0.044
070422	Soil	0.44	38.75	23.87	64.3	80	43.7	24.1	770	2.90	28.8	1.3	5.0	6.4	21.5	0.06	0.45	0.25	27	0.35	0.052
070423	Soil	0.71	41.74	32.26	69.5	127	34.0	18.0	548	3.78	30.7	1.4	7.7	13.6	19.3	0.08	1.17	0.34	16	0.24	0.050
070424	Soil	0.53	51.34	26.57	86.1	124	54.2	28.0	896	4.13	70.8	1.8	10.5	11.6	21.8	0.07	0.78	0.36	29	0.25	0.047
070425	Soil	0.66	48.18	39.45	87.6	143	45.8	26.6	1119	4.03	107.6	2.0	14.2	9.7	51.3	0.09	0.92	0.44	35	0.38	0.067
070426	Soil	0.41	31.83	34.31	60.6	122	26.2	14.2	599	2.71	171.7	1.8	9.0	6.6	27.7	0.06	0.76	0.36	13	0.42	0.059
070427	Soil	0.51	38.37	23.20	66.4	114	33.1	16.3	494	3.33	136.8	2.1	12.1	6.7	28.2	0.05	0.72	0.42	15	0.36	0.085
070428	Soil	0.45	43.11	31.72	89.8	135	31.5	13.0	338	3.40	44.6	1.7	5.3	9.5	30.6	0.05	0.67	0.42	12	0.37	0.068
070429	Soil	0.58	50.86	38.00	69.2	132	23.0	16.2	471	2.89	17.3	2.1	5.7	6.3	10.7	0.04	0.49	0.42	12	0.12	0.072
070430	Soil	0.48	82.29	18.24	66.2	52	43.6	15.4	575	2.80	8.4	0.3	0.7	12.3	33.8	0.52	2.29	0.29	16	2.24	0.110
070431	Soil	0.47	124.44	16.06	68.8	40	31.5	12.8	538	3.08	9.3	0.4	1.1	7.5	12.6	0.53	3.62	0.24	13	0.34	0.097
070432	Soil	0.43	80.13	15.21	63.5	37	34.5	12.2	485	3.13	13.6	0.6	2.1	7.7	10.2	0.36	3.02	0.32	14	0.31	0.101
070433	Soil	0.39	45.76	17.27	69.1	47	36.2	12.9	511	2.95	8.0	0.5	5.6	9.8	10.3	0.37	0.88	0.33	15	0.29	0.096
070434	Soil	0.26	38.99	20.08	70.1	79	35.4	13.4	537	2.92	6.1	0.4	3.6	6.0	14.7	0.23	0.51	0.27	19	0.44	0.105
070435	Soil	0.33	12.32	13.18	71.8	34	32.0	10.5	373	2.37	4.1	0.7	0.4	3.1	12.6	0.11	0.23	0.27	18	0.25	0.114
070436	Soil	0.24	16.02	13.86	27.2	30	10.7	5.7	172	1.29	3.5	0.6	0.3	0.6	8.6	0.03	0.14	0.16	13	0.11	0.066



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**Project:** NA-16176  
**Report Date:** September 19, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000237.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
070407	Soil	21.4	32.0	1.23	53.0	0.006	<1	1.84	0.006	0.03	<0.1	2.4	0.04	<0.02	18	0.2	0.12	4.8	3.26	<0.1	<0.02
070408	Soil	17.4	29.9	0.97	38.4	0.008	<1	1.51	0.006	0.03	<0.1	1.6	0.03	<0.02	9	0.2	0.20	4.0	4.84	<0.1	<0.02
070409	Soil	25.6	43.1	1.34	35.2	0.001	<1	2.90	0.005	0.04	<0.1	3.1	0.02	<0.02	14	0.3	0.18	7.9	5.39	<0.1	0.05
070410	Soil	17.4	36.0	1.17	27.2	0.003	5	2.46	0.006	0.02	<0.1	2.3	<0.02	<0.02	9	<0.1	0.12	7.0	2.62	<0.1	0.05
070411	Soil	1.2	2.2	0.02	7.4	0.008	<1	0.09	0.026	0.02	<0.1	0.2	<0.02	<0.02	16	0.3	<0.02	0.6	0.16	<0.1	<0.02
070412	Soil	18.0	24.1	0.55	22.6	0.008	<1	1.63	0.004	0.03	0.1	1.2	0.05	0.02	37	0.3	0.05	5.7	0.98	<0.1	<0.02
070413	Soil	14.8	20.0	0.56	33.0	0.006	<1	1.47	0.007	0.03	<0.1	1.6	0.04	<0.02	43	0.2	0.04	3.9	1.30	<0.1	0.03
070414	Soil	17.6	31.1	0.89	26.0	0.004	<1	2.28	0.005	0.03	<0.1	1.5	0.03	<0.02	28	0.2	0.06	6.1	0.89	<0.1	0.05
070415	Soil	18.8	28.1	0.60	31.4	0.010	1	1.83	0.005	0.05	0.2	1.5	0.08	0.04	49	0.7	0.06	5.5	1.24	<0.1	<0.02
070416	Soil	11.3	12.3	0.38	14.6	0.009	<1	1.17	0.016	0.03	<0.1	0.8	0.03	<0.02	25	0.3	0.10	3.7	0.84	<0.1	<0.02
070417	Soil	11.1	20.9	0.53	17.2	0.005	<1	1.55	0.010	0.03	<0.1	1.1	0.04	0.03	26	0.5	0.03	4.5	0.74	<0.1	0.16
070418	Soil	16.6	31.1	0.85	31.2	0.002	<1	2.32	0.007	0.03	<0.1	1.5	0.04	<0.02	14	0.3	0.05	6.3	1.01	<0.1	0.12
070419	Soil	13.6	26.4	0.52	33.6	0.006	<1	1.60	0.005	0.04	0.1	1.1	0.05	0.04	27	0.4	0.05	5.0	1.11	<0.1	0.03
070420	Soil	11.3	35.6	0.80	29.6	0.003	<1	1.64	0.005	0.04	<0.1	2.6	0.04	0.03	23	0.3	0.05	4.5	0.83	<0.1	0.07
070421	Soil	12.8	77.7	1.29	35.2	0.001	<1	2.12	0.003	0.04	<0.1	4.8	0.02	<0.02	14	0.3	0.04	5.0	1.28	<0.1	0.08
070422	Soil	10.3	55.5	1.02	39.0	0.003	<1	2.04	0.009	0.03	<0.1	3.5	0.03	0.02	17	0.3	0.03	4.9	1.02	<0.1	0.05
070423	Soil	9.7	29.6	0.78	26.5	0.001	<1	1.68	0.003	0.03	<0.1	2.5	0.03	<0.02	19	0.2	0.03	4.1	0.82	<0.1	0.06
070424	Soil	11.5	61.2	1.18	49.6	0.002	<1	2.33	0.007	0.03	<0.1	5.7	0.03	<0.02	15	0.2	0.04	5.9	1.30	<0.1	0.09
070425	Soil	13.2	56.4	1.16	94.7	0.003	<1	2.35	0.008	0.04	<0.1	7.3	0.04	0.03	24	0.5	0.05	6.0	1.55	<0.1	0.16
070426	Soil	12.0	20.3	0.50	51.5	0.002	<1	1.60	0.010	0.03	<0.1	2.5	0.04	0.03	17	0.4	0.04	3.6	1.02	0.1	0.10
070427	Soil	11.4	25.4	0.59	47.7	0.002	<1	1.75	0.010	0.03	<0.1	2.6	0.04	0.04	19	0.3	0.03	4.6	1.09	<0.1	0.15
070428	Soil	13.4	21.6	0.64	55.1	0.003	<1	1.93	0.007	0.04	<0.1	2.2	0.05	0.03	33	0.4	0.04	5.0	0.75	<0.1	0.09
070429	Soil	9.6	18.5	0.50	42.3	0.003	<1	1.60	0.008	0.03	<0.1	1.0	0.04	0.03	23	0.3	0.03	4.3	0.95	<0.1	0.05
070430	Soil	21.3	25.6	2.32	54.8	0.002	<1	1.65	0.002	0.02	<0.1	5.2	<0.02	<0.02	25	0.1	0.04	4.3	0.50	<0.1	0.04
070431	Soil	16.3	19.2	0.89	45.8	0.004	<1	1.25	0.003	0.02	<0.1	7.2	<0.02	0.03	31	0.2	0.05	2.5	0.31	<0.1	0.08
070432	Soil	19.1	22.3	0.87	55.9	0.004	<1	1.32	0.003	0.03	<0.1	6.3	0.02	0.03	25	0.1	0.07	2.9	0.54	<0.1	0.04
070433	Soil	23.0	21.9	0.92	66.1	0.007	<1	1.31	0.005	0.02	<0.1	5.2	<0.02	<0.02	19	0.2	<0.02	3.4	0.40	<0.1	0.04
070434	Soil	20.4	24.4	0.99	103.3	0.005	<1	1.56	0.005	0.03	<0.1	6.0	0.03	0.03	20	0.2	0.08	4.1	0.85	<0.1	0.02
070435	Soil	18.0	20.2	0.60	88.4	0.008	<1	1.24	0.004	0.03	<0.1	3.7	0.05	0.05	19	0.1	<0.02	3.4	1.34	<0.1	0.05
070436	Soil	6.2	9.2	0.25	32.9	0.014	<1	0.92	0.023	0.02	<0.1	0.8	0.03	0.03	23	<0.1	<0.02	2.5	0.68	<0.1	<0.02



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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
070407	Soil	0.08	3.6	0.4	<0.05	1.1	4.27	44.9	<0.02	<1	0.9	63.4	<10	<2
070408	Soil	0.07	3.3	0.2	<0.05	0.9	2.45	34.7	<0.02	<1	0.7	51.4	<10	<2
070409	Soil	<0.02	2.3	0.2	<0.05	3.3	5.30	53.6	0.02	<1	0.7	85.3	<10	<2
070410	Soil	0.03	1.9	0.2	<0.05	2.0	2.62	34.1	<0.02	<1	0.5	73.3	<10	<2
070411	Soil	0.07	1.1	0.2	<0.05	0.2	0.15	2.4	<0.02	<1	<0.1	0.3	<10	<2
070412	Soil	0.33	5.7	0.4	<0.05	0.9	2.43	35.8	<0.02	<1	0.3	37.6	<10	<2
070413	Soil	0.15	4.1	0.3	<0.05	1.1	4.73	30.7	<0.02	<1	0.6	36.2	<10	<2
070414	Soil	0.10	3.4	0.2	<0.05	1.9	3.14	35.1	<0.02	<1	0.5	69.1	<10	<2
070415	Soil	0.43	7.3	0.4	<0.05	0.5	3.44	38.0	0.02	<1	0.3	39.8	<10	<2
070416	Soil	0.17	2.6	0.2	<0.05	0.5	1.15	20.9	<0.02	<1	0.2	25.4	<10	<2
070417	Soil	0.17	4.2	0.4	<0.05	5.1	2.70	20.8	<0.02	<1	0.2	46.7	<10	<2
070418	Soil	0.07	3.6	0.2	<0.05	4.6	4.15	30.3	<0.02	<1	0.4	76.6	<10	<2
070419	Soil	0.37	5.5	0.4	<0.05	0.9	2.94	27.5	<0.02	<1	0.4	30.5	<10	<2
070420	Soil	0.06	2.7	0.3	<0.05	5.5	5.00	22.8	<0.02	<1	0.5	39.8	<10	<2
070421	Soil	0.02	2.3	0.3	<0.05	4.4	5.82	27.5	0.03	<1	0.9	34.2	<10	<2
070422	Soil	0.12	2.7	0.4	<0.05	2.2	5.44	21.5	0.02	<1	0.5	38.9	<10	<2
070423	Soil	0.02	1.7	0.3	<0.05	5.4	4.84	20.3	<0.02	<1	0.4	37.0	<10	<2
070424	Soil	0.04	2.7	0.3	<0.05	4.9	7.27	22.8	0.03	<1	0.5	60.8	<10	<2
070425	Soil	0.14	4.0	0.4	<0.05	6.4	10.27	24.2	0.02	1	0.7	48.7	12	<2
070426	Soil	0.13	4.1	0.3	<0.05	4.5	6.06	21.7	0.02	<1	0.5	26.0	<10	<2
070427	Soil	0.18	3.5	0.5	<0.05	6.7	5.22	20.4	<0.02	<1	0.6	44.4	<10	<2
070428	Soil	0.19	4.8	0.5	<0.05	5.0	7.46	24.8	<0.02	<1	0.4	45.8	<10	<2
070429	Soil	0.13	3.9	0.2	<0.05	2.3	4.65	17.1	<0.02	<1	0.6	36.6	<10	<2
070430	Soil	0.05	1.7	0.2	<0.05	1.6	12.44	41.9	0.02	<1	0.5	60.7	<10	<2
070431	Soil	0.16	2.7	0.5	<0.05	3.4	16.85	31.9	0.04	<1	0.3	37.6	<10	2
070432	Soil	0.11	3.3	0.3	<0.05	1.9	18.06	36.8	0.02	<1	1.0	41.1	<10	<2
070433	Soil	0.13	2.2	0.5	<0.05	1.6	12.67	45.1	<0.02	<1	0.3	48.1	<10	<2
070434	Soil	0.22	4.0	0.3	<0.05	1.4	10.57	39.5	0.03	<1	0.6	45.8	<10	<2
070435	Soil	0.31	6.0	0.5	<0.05	0.8	13.57	33.8	<0.02	<1	0.5	29.4	<10	<2
070436	Soil	0.17	2.1	0.1	<0.05	0.3	1.93	12.3	<0.02	<1	0.3	14.1	<10	<2



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**Project:** NA-16176  
**Report Date:** September 19, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000237.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	0.001	0.001
070437	Soil	0.71	36.30	32.50	70.0	52	28.7	13.2	614	3.84	11.0	1.4	0.5	4.8	4.3	0.13	0.47	0.48	17	0.01	0.072	
070438	Soil	0.88	143.74	97.19	113.4	119	50.5	33.8	1043	5.05	16.8	4.2	4.1	13.8	10.1	0.05	0.85	1.32	15	0.07	0.063	
070439	Soil	0.73	105.06	62.09	127.6	106	56.4	41.9	1045	5.16	17.0	2.8	2.5	13.7	7.5	0.07	0.58	0.70	16	0.07	0.042	
070440	Soil	0.71	97.99	50.90	130.1	97	60.4	56.6	1128	5.50	44.8	4.0	5.6	12.9	20.1	0.08	0.80	0.52	18	0.09	0.047	
070441	Soil	0.67	99.10	49.32	130.6	110	59.4	55.7	1064	5.33	46.1	4.1	6.9	12.6	21.1	0.07	0.76	0.51	17	0.08	0.049	
070442	Soil	0.60	101.16	42.90	125.2	126	58.3	63.4	1157	5.10	36.8	3.6	5.7	10.9	19.1	0.07	0.74	0.54	17	0.07	0.047	
070443	Soil	0.40	84.52	35.90	118.7	126	53.2	44.6	1044	4.97	27.6	3.0	3.6	11.0	11.9	0.07	0.70	0.47	16	0.09	0.054	
070444	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.	I.S.
070445	Soil	0.47	59.75	39.45	109.7	81	50.9	29.6	832	4.87	27.8	1.9	2.6	8.6	12.3	0.04	0.52	0.53	15	0.07	0.047	
070446	Soil	0.43	54.67	40.23	121.9	56	50.8	31.1	902	5.08	26.0	1.8	3.0	8.3	9.7	0.06	0.57	0.50	16	0.05	0.060	
070447	Soil	0.76	86.81	64.96	153.5	187	58.1	54.7	1672	4.83	39.1	3.8	6.9	11.4	19.8	0.24	0.84	0.56	15	0.15	0.050	
070448	Soil	0.97	43.73	36.59	99.3	40	38.7	19.7	1012	4.67	39.0	1.4	4.3	7.9	10.0	0.12	1.61	0.59	12	0.19	0.058	
070449	Soil	0.52	28.01	33.06	64.4	121	22.7	10.8	784	3.65	28.6	1.0	2.3	2.0	5.0	0.15	0.50	0.41	16	0.02	0.101	
070450	Soil	1.63	35.32	39.77	75.3	78	25.9	6.7	545	4.42	39.4	1.1	5.6	5.2	15.1	0.06	3.61	0.54	13	0.02	0.080	
070451	Soil	0.31	38.96	20.59	80.5	73	30.0	11.1	356	3.38	21.4	0.5	1.7	6.9	10.1	0.30	1.07	0.37	14	0.34	0.075	
070452	Soil	0.30	31.80	16.18	58.5	32	18.8	6.6	320	2.49	10.7	0.5	1.8	2.8	12.5	0.23	2.47	0.27	11	0.38	0.125	
070453	Soil	0.39	37.94	18.80	48.4	56	18.4	13.0	626	2.12	23.0	0.5	1.0	2.0	18.1	0.75	1.85	0.26	13	0.87	0.101	
070454	Soil	0.47	81.62	27.79	57.0	72	17.1	8.5	715	2.62	14.3	0.6	0.3	1.8	18.5	1.10	1.51	0.33	11	0.62	0.089	
070455	Soil	0.28	36.88	17.44	60.7	56	27.7	10.6	529	2.75	12.7	0.4	2.1	4.0	15.4	0.44	1.01	0.28	14	0.47	0.098	
070456	Soil	10.95	96.66	470.77	85.4	138	41.6	19.4	1521	3.57	1.7	0.8	5.5	17.0	7.8	0.08	0.20	0.66	17	0.14	0.055	
070457	Soil	0.49	69.68	80.34	102.3	43	50.4	25.3	984	4.44	7.9	0.9	3.0	11.3	6.7	0.04	0.42	0.55	18	0.11	0.061	
070458	Soil	0.54	70.55	52.71	92.1	62	47.8	21.9	898	4.08	14.5	1.3	4.1	8.9	9.1	0.07	0.46	0.49	17	0.15	0.069	
070459	Soil	0.49	71.79	42.86	115.5	72	50.1	27.4	849	5.00	27.2	3.1	2.4	9.1	19.8	0.05	0.64	0.42	17	0.09	0.045	
070460	Soil	0.73	85.43	67.72	122.3	129	46.7	70.2	2514	3.80	61.3	3.3	11.1	14.7	16.2	0.18	0.77	0.40	12	0.13	0.058	
070461	Soil	0.87	95.01	54.28	137.7	143	45.6	62.7	1879	3.85	123.3	3.9	9.5	14.4	36.4	0.19	0.90	0.42	11	0.14	0.059	
070462	Soil	0.49	94.86	47.45	113.7	164	44.2	35.2	998	4.91	36.0	3.6	1.8	8.6	9.6	0.05	0.88	0.54	16	0.06	0.054	
070463	Soil	0.43	20.39	36.74	51.7	55	14.7	11.1	456	2.23	15.8	1.0	0.9	1.8	5.4	0.05	0.42	0.30	11	0.04	0.059	
070464	Soil	3.38	184.56	195.80	186.5	144	78.9	101.8	4159	5.52	65.0	3.1	2.8	14.8	22.5	0.20	1.24	1.25	17	0.22	0.074	
070465	Soil	1.56	130.00	209.44	120.3	115	61.7	48.0	2494	5.55	70.2	1.9	2.4	10.8	14.3	0.09	0.83	2.12	17	0.19	0.073	
070466	Soil	1.19	70.73	64.62	100.8	67	52.4	37.6	1667	4.91	52.5	1.5	3.6	8.4	10.6	0.06	1.21	1.11	15	0.24	0.071	



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**Project:** NA-16176  
**Report Date:** September 19, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000237.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
070437	Soil	16.4	26.3	0.77	28.4	0.003	<1	1.69	0.004	0.02	<0.1	1.4	0.04	0.04	34	0.1	0.06	6.2	1.54	<0.1	0.09
070438	Soil	21.5	33.7	1.09	40.0	0.002	<1	2.38	0.005	0.03	<0.1	2.8	0.02	<0.02	28	0.1	0.24	6.6	3.23	0.1	0.04
070439	Soil	27.4	36.4	1.23	31.6	0.003	<1	2.56	0.004	0.03	<0.1	3.0	0.02	<0.02	25	0.2	0.07	7.1	2.12	0.2	0.09
070440	Soil	17.5	41.4	1.27	23.9	0.002	<1	3.02	0.005	0.04	<0.1	2.8	0.03	<0.02	8	<0.1	0.09	8.0	2.30	<0.1	0.14
070441	Soil	16.3	40.5	1.24	22.9	0.001	<1	2.88	0.004	0.04	<0.1	2.8	0.03	<0.02	11	0.1	0.06	7.8	2.48	<0.1	0.11
070442	Soil	14.7	39.1	1.21	23.0	0.002	<1	2.76	0.006	0.04	<0.1	2.8	0.03	<0.02	16	<0.1	0.09	7.7	2.24	0.1	0.04
070443	Soil	17.8	38.5	1.21	22.4	0.002	<1	2.72	0.003	0.03	<0.1	2.7	0.02	<0.02	19	<0.1	0.10	7.8	1.75	<0.1	0.04
070444	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.
070445	Soil	17.3	35.2	1.16	20.5	0.001	<1	2.61	0.005	0.03	<0.1	2.5	<0.02	<0.02	12	0.5	0.07	6.7	1.73	<0.1	0.07
070446	Soil	18.1	38.4	1.19	15.8	0.001	<1	2.68	0.003	0.02	<0.1	2.3	<0.02	<0.02	13	<0.1	0.05	7.1	1.56	0.2	0.11
070447	Soil	18.9	34.9	1.08	38.2	0.002	<1	2.51	0.005	0.04	<0.1	2.8	0.03	<0.02	48	<0.1	0.07	7.2	2.48	<0.1	0.07
070448	Soil	15.3	24.1	0.70	28.5	0.001	<1	1.89	0.003	0.03	<0.1	3.3	0.04	0.02	45	0.1	0.06	5.2	1.45	<0.1	0.06
070449	Soil	12.3	20.8	0.53	22.6	0.006	<1	1.40	0.007	0.03	<0.1	0.8	0.03	0.04	37	<0.1	0.06	5.8	1.69	0.2	<0.02
070450	Soil	11.4	26.1	0.81	25.8	0.003	<1	2.08	0.007	0.02	<0.1	1.1	0.06	0.04	17	0.5	0.06	5.7	1.21	<0.1	0.14
070451	Soil	15.2	22.5	0.84	42.8	0.001	<1	1.60	0.003	0.02	<0.1	3.7	<0.02	<0.02	<5	0.4	0.05	3.9	0.36	<0.1	0.09
070452	Soil	10.8	13.4	0.49	65.7	0.004	<1	1.07	0.005	0.02	<0.1	3.8	0.03	0.06	11	0.7	0.05	2.8	0.45	<0.1	0.08
070453	Soil	13.2	14.4	0.73	52.4	0.005	<1	1.06	0.009	0.02	<0.1	3.8	0.02	0.05	7	0.3	0.04	2.6	0.20	<0.1	0.06
070454	Soil	17.0	11.0	0.38	66.0	0.006	<1	0.79	0.007	0.02	<0.1	4.1	0.02	0.05	28	<0.1	0.06	2.1	0.33	<0.1	0.04
070455	Soil	19.0	18.0	0.75	123.8	0.005	1	1.20	0.002	0.02	<0.1	5.2	0.03	0.05	20	0.4	0.07	3.2	0.46	<0.1	<0.02
070456	Soil	24.9	31.8	1.53	80.4	0.003	1	2.13	0.004	0.03	<0.1	2.8	0.02	<0.02	11	<0.1	0.07	5.5	2.81	<0.1	0.06
070457	Soil	25.1	40.7	1.20	37.9	0.003	<1	2.36	0.003	0.03	<0.1	3.5	<0.02	<0.02	33	<0.1	<0.02	6.1	2.41	0.2	0.10
070458	Soil	20.2	34.6	1.11	48.0	0.002	<1	2.23	0.003	0.03	<0.1	3.9	0.02	<0.02	8	0.2	0.07	6.0	1.69	0.2	0.08
070459	Soil	13.7	37.7	1.17	32.9	0.002	<1	2.69	0.005	0.02	<0.1	2.7	<0.02	<0.02	12	<0.1	0.04	7.7	2.18	<0.1	0.11
070460	Soil	12.3	26.6	0.89	64.8	<0.001	<1	2.20	0.003	0.03	<0.1	2.1	0.04	<0.02	38	<0.1	0.06	5.5	1.83	<0.1	0.05
070461	Soil	10.7	25.5	0.85	58.3	0.001	2	2.08	0.004	0.02	<0.1	1.8	0.04	<0.02	23	0.1	0.06	5.6	1.59	0.1	0.03
070462	Soil	16.5	35.6	1.08	22.9	0.003	4	2.53	0.005	0.03	<0.1	3.1	0.03	0.03	33	<0.1	<0.02	7.6	2.49	0.1	0.18
070463	Soil	7.2	13.3	0.35	25.8	0.005	3	1.27	0.011	0.02	<0.1	0.8	0.03	0.03	33	<0.1	0.03	3.7	0.68	<0.1	0.05
070464	Soil	21.9	39.6	1.23	67.1	0.002	2	2.52	0.003	0.03	<0.1	3.2	0.10	<0.02	43	<0.1	0.29	6.1	2.75	0.2	0.07
070465	Soil	28.8	33.6	1.37	38.6	0.002	3	2.75	0.002	0.03	<0.1	2.5	0.03	<0.02	8	<0.1	0.45	7.0	1.47	0.2	0.08
070466	Soil	13.8	29.6	1.12	19.9	0.002	2	2.29	0.003	0.03	<0.1	3.4	0.03	0.05	39	0.3	0.20	5.6	1.11	0.2	0.11



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# CERTIFICATE OF ANALYSIS

WHI16000237.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
070437	Soil	0.14	4.7	0.2	<0.05	2.5	1.84	30.4	<0.02	<1	0.4	49.8	<10	<2
070438	Soil	0.02	2.7	0.1	<0.05	3.7	3.81	39.1	0.02	<1	1.0	76.0	<10	<2
070439	Soil	0.03	2.2	0.6	<0.05	8.5	3.96	50.0	<0.02	<1	0.5	86.8	<10	<2
070440	Soil	0.03	1.9	<0.1	<0.05	8.2	3.80	34.3	0.03	<1	0.5	99.9	<10	<2
070441	Soil	<0.02	1.9	0.1	<0.05	7.6	3.70	33.0	<0.02	<1	0.7	95.5	<10	<2
070442	Soil	0.03	2.1	0.1	<0.05	3.4	3.56	28.8	<0.02	<1	0.6	99.1	<10	<2
070443	Soil	<0.02	1.8	0.2	<0.05	3.9	3.67	35.5	<0.02	<1	0.4	93.1	<10	<2
070444	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.
070445	Soil	0.03	1.9	0.2	<0.05	2.8	2.71	31.8	0.02	<1	0.2	83.3	<10	<2
070446	Soil	0.02	1.8	0.3	<0.05	4.2	2.44	34.0	<0.02	<1	0.3	84.2	<10	<2
070447	Soil	0.05	2.7	0.2	<0.05	5.3	5.90	35.2	0.06	<1	0.3	83.6	<10	<2
070448	Soil	0.08	5.5	0.2	<0.05	2.5	6.97	32.7	0.05	<1	0.4	62.3	<10	<2
070449	Soil	0.18	4.3	0.2	<0.05	1.0	1.30	22.9	<0.02	<1	0.4	39.5	<10	<2
070450	Soil	0.14	3.3	<0.1	<0.05	4.7	1.22	21.5	<0.02	<1	0.5	60.3	<10	<2
070451	Soil	0.09	2.4	0.2	<0.05	3.9	11.25	28.1	<0.02	<1	0.1	47.6	<10	<2
070452	Soil	0.21	4.0	0.2	<0.05	2.4	9.69	20.4	<0.02	<1	0.4	24.5	<10	<2
070453	Soil	0.18	2.0	0.2	<0.05	2.4	17.65	26.3	0.03	1	0.9	28.6	<10	<2
070454	Soil	0.21	2.4	0.1	<0.05	0.8	24.09	29.3	0.03	<1	0.3	15.3	<10	<2
070455	Soil	0.26	3.4	0.2	<0.05	0.9	13.33	36.1	0.03	<1	0.3	36.4	<10	<2
070456	Soil	0.02	3.2	0.2	<0.05	2.7	5.35	48.0	<0.02	<1	0.5	86.1	<10	<2
070457	Soil	0.06	3.0	<0.1	<0.05	3.0	6.05	48.4	0.03	<1	0.5	75.8	<10	<2
070458	Soil	0.07	3.0	0.2	<0.05	2.6	6.43	39.1	0.03	<1	0.5	72.4	<10	<2
070459	Soil	0.05	2.2	0.2	<0.05	3.2	4.41	28.1	<0.02	<1	0.5	86.2	<10	<2
070460	Soil	0.02	2.8	0.2	<0.05	2.8	6.50	25.8	0.02	<1	0.8	65.6	<10	<2
070461	Soil	<0.02	2.0	0.2	<0.05	1.6	5.22	22.3	0.02	1	0.3	65.1	<10	<2
070462	Soil	0.06	2.7	0.3	<0.05	3.7	5.05	32.5	0.04	1	<0.1	86.0	<10	<2
070463	Soil	0.20	2.8	0.2	<0.05	1.7	2.01	14.2	<0.02	<1	<0.1	26.3	<10	2
070464	Soil	0.06	2.0	0.3	<0.05	7.4	7.48	41.4	0.06	<1	1.9	91.4	<10	<2
070465	Soil	<0.02	1.5	0.2	<0.05	5.6	5.36	54.0	0.02	<1	1.0	94.8	<10	5
070466	Soil	0.03	2.0	0.3	<0.05	4.7	3.77	27.8	<0.02	<1	<0.1	79.1	17	<2



# CERTIFICATE OF ANALYSIS

WHI16000237.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
070467	Soil	0.85	72.14	41.90	107.0	82	53.6	29.6	1193	5.16	47.0	1.7	3.8	11.3	13.7	0.08	2.05	0.86	12	0.29	0.055
070468	Soil	0.22	18.41	11.54	29.3	32	10.4	6.4	171	1.51	21.4	0.6	1.9	2.3	6.0	0.04	0.24	0.22	7	0.09	0.029
070469	Soil	1.04	87.93	37.62	99.4	210	32.6	19.2	1054	3.20	92.9	25.1	6.8	6.3	101.7	0.16	1.30	0.59	8	1.99	0.095
070470	Soil	0.74	74.10	40.78	107.1	101	55.6	28.1	1360	5.78	41.1	1.9	2.2	14.1	12.3	0.08	1.16	0.99	13	0.17	0.022
070471	Soil	1.03	53.10	54.34	99.6	151	33.0	19.8	826	4.52	43.9	1.8	2.5	9.5	32.0	0.19	0.94	0.58	17	0.02	0.114
070472	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
070473	Soil	0.45	41.74	21.94	69.7	47	31.5	9.6	473	3.92	91.1	1.0	8.3	4.6	14.8	0.02	0.53	0.69	14	0.01	0.060
070474	Soil	0.43	50.12	35.74	98.2	118	42.7	23.3	636	4.25	19.6	2.0	3.4	14.0	58.2	0.05	0.63	0.52	10	0.52	0.050
070475	Soil	0.35	42.56	30.74	97.6	112	39.1	19.9	586	4.13	12.4	1.7	25.9	12.2	18.1	0.06	0.62	0.48	12	0.19	0.049
070476	Soil	0.55	30.12	22.52	72.4	66	22.5	10.8	563	2.81	42.6	2.7	5.7	3.0	102.4	0.19	0.69	0.39	8	1.66	0.134
070477	Soil	0.43	42.90	29.16	91.6	131	37.0	11.7	278	4.01	27.2	1.6	2.5	9.2	36.5	0.06	0.72	0.47	10	0.57	0.065
070478	Soil	0.46	45.41	30.57	92.6	150	37.9	12.0	299	4.00	28.1	1.9	3.1	8.9	38.0	0.08	0.75	0.48	10	0.62	0.071
070479	Soil	0.37	39.28	27.38	94.5	91	38.9	18.3	544	4.05	16.7	1.4	3.4	12.6	17.4	0.07	0.54	0.46	16	0.21	0.049
070480	Soil	0.40	19.94	15.53	63.8	47	37.8	11.9	719	2.28	6.3	0.5	3.6	2.0	18.7	0.21	1.16	0.18	18	0.56	0.140
070481	Soil	0.43	313.65	13.28	65.4	126	42.1	15.1	742	3.25	5.4	0.8	1.5	8.7	9.0	0.07	0.66	0.31	20	0.16	0.105
070482	Soil	0.32	36.33	20.46	71.3	44	54.3	20.2	768	3.29	27.2	0.6	17.9	7.5	14.6	0.12	1.86	0.33	21	0.38	0.107
070483	Soil	0.29	45.47	32.33	95.3	123	35.0	13.9	394	3.98	16.1	1.1	3.9	10.6	21.6	0.06	0.98	0.50	12	0.38	0.050
070484	Soil	0.46	43.77	21.45	91.3	123	26.9	11.5	450	2.52	10.0	0.9	2.3	3.9	101.8	0.46	0.72	0.31	9	2.16	0.097
070485	Soil	0.69	63.92	40.37	121.6	108	52.4	37.9	1044	5.42	31.3	2.8	2.2	13.3	6.3	0.05	0.76	0.42	18	0.07	0.056
070486	Soil	1.00	68.30	63.14	127.1	146	32.4	39.8	1307	3.18	193.2	3.6	23.6	4.2	23.9	0.31	0.75	0.58	14	0.40	0.145
070487	Soil	0.78	121.19	72.46	144.0	140	44.5	99.6	1873	4.55	92.9	3.8	17.1	9.2	8.5	0.09	1.27	0.64	17	0.04	0.066
070488	Soil	0.74	71.38	65.94	123.3	85	44.7	42.9	1117	4.68	77.4	2.0	23.8	8.0	6.7	0.11	0.96	0.79	17	0.07	0.078
070489	Soil	0.63	73.62	56.06	113.4	200	46.3	37.9	1047	5.44	35.0	4.0	7.9	10.2	6.1	0.07	1.08	0.62	18	0.07	0.085
070490	Soil	0.69	104.54	41.83	138.3	96	70.3	85.7	2070	4.45	59.8	2.1	13.5	10.7	25.6	0.23	0.89	0.47	17	0.25	0.097
070491	Soil	0.77	29.03	25.18	49.8	981	20.2	8.2	554	3.66	254.6	1.7	22.6	2.2	10.0	0.16	0.62	0.65	18	0.04	0.206
070492	Soil	0.75	117.73	45.46	59.2	770	22.6	12.0	461	4.45	44.1	4.8	1.5	5.9	11.5	0.07	0.86	0.58	19	0.01	0.201
070493	Soil	0.63	35.60	32.72	97.1	74	37.1	23.4	1414	4.14	75.7	0.9	16.9	5.1	9.2	0.20	0.66	0.54	15	0.11	0.088
070494	Soil	0.34	10.76	7.79	15.4	206	6.1	5.9	840	0.89	6.9	0.5	0.5	<0.1	5.6	0.22	0.11	0.11	7	0.04	0.072
070495	Soil	0.67	34.07	37.51	98.0	118	28.7	17.7	1536	4.86	19.8	1.0	0.9	2.1	6.9	0.17	0.55	0.59	22	0.04	0.121
070496	Soil	0.75	46.81	38.62	87.8	84	35.8	16.2	807	4.63	24.3	1.2	0.5	5.7	19.7	0.18	1.13	0.58	15	0.94	0.092



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**Project:** NA-16176  
**Report Date:** September 19, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000237.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
070467	Soil	13.5	25.6	1.00	18.8	<0.001	1	2.13	0.003	0.02	<0.1	3.8	0.03	0.04	15	0.1	0.14	5.6	0.77	<0.1	0.14
070468	Soil	3.4	8.5	0.18	8.3	0.004	<1	0.61	0.016	0.02	<0.1	0.6	<0.02	0.03	17	<0.1	<0.02	2.4	1.03	<0.1	0.03
070469	Soil	7.7	15.9	0.57	39.0	0.002	7	1.31	0.008	0.03	<0.1	4.2	0.03	0.12	61	0.7	<0.02	3.9	2.61	0.2	0.16
070470	Soil	22.5	23.9	0.83	31.5	<0.001	<1	1.99	0.004	0.02	<0.1	6.3	0.04	<0.02	29	0.5	0.10	5.8	3.65	0.2	0.10
070471	Soil	15.4	26.5	0.73	35.1	0.004	<1	2.05	0.004	0.03	<0.1	1.6	0.05	0.03	38	0.6	<0.02	6.4	3.02	<0.1	0.10
070472	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
070473	Soil	16.8	20.1	0.70	23.3	0.004	2	1.93	0.008	0.02	<0.1	1.1	0.03	0.03	19	<0.1	0.13	5.7	1.39	<0.1	0.06
070474	Soil	15.6	22.3	0.78	19.3	0.001	1	1.82	0.002	0.03	<0.1	2.2	0.02	0.02	30	0.3	0.02	4.5	0.48	<0.1	0.10
070475	Soil	14.1	25.4	0.84	24.6	0.001	1	2.00	0.002	0.03	<0.1	2.0	<0.02	<0.02	9	0.1	0.03	4.7	0.46	<0.1	0.10
070476	Soil	6.9	14.4	0.49	68.7	0.002	3	1.10	0.003	0.04	<0.1	1.3	0.03	0.13	42	0.2	0.13	3.4	0.45	0.1	0.11
070477	Soil	12.3	20.0	0.65	29.8	0.001	<1	1.69	0.002	0.03	<0.1	1.8	0.03	0.03	18	0.2	0.06	4.4	0.36	<0.1	0.14
070478	Soil	11.9	20.4	0.64	33.1	0.001	<1	1.72	0.003	0.03	<0.1	1.9	0.02	0.04	35	<0.1	0.03	4.4	0.37	<0.1	0.13
070479	Soil	13.4	31.2	1.01	27.4	0.002	<1	2.04	0.002	0.02	<0.1	1.9	<0.02	<0.02	14	<0.1	<0.02	5.2	0.42	<0.1	0.07
070480	Soil	13.3	31.5	0.65	111.8	0.008	3	1.36	0.009	0.04	<0.1	5.3	0.03	0.06	35	0.3	<0.02	3.2	0.82	<0.1	0.06
070481	Soil	17.5	37.3	1.32	50.7	0.006	<1	2.39	0.010	0.03	<0.1	2.8	0.03	0.05	84	0.3	0.04	6.1	1.55	<0.1	0.05
070482	Soil	21.2	45.4	1.17	71.0	0.005	2	1.84	0.006	0.03	<0.1	5.2	0.02	0.03	50	<0.1	0.10	4.9	0.85	0.1	0.05
070483	Soil	14.3	23.9	0.78	33.9	0.001	<1	1.89	0.002	0.03	<0.1	2.3	0.02	0.03	38	0.4	<0.02	5.0	0.41	0.1	0.11
070484	Soil	8.8	17.2	0.56	31.0	0.002	4	1.22	0.004	0.03	<0.1	1.5	0.03	0.14	24	0.3	0.06	3.5	0.30	<0.1	0.08
070485	Soil	20.3	42.0	1.26	32.2	0.003	2	2.84	0.005	0.03	<0.1	2.6	0.03	<0.02	6	0.4	0.07	8.0	2.46	<0.1	0.06
070486	Soil	7.9	21.4	0.60	69.3	0.005	2	1.71	0.009	0.05	<0.1	1.3	0.07	0.09	51	<0.1	0.08	4.9	3.36	<0.1	0.07
070487	Soil	16.8	30.7	0.90	58.9	0.004	2	2.31	0.005	0.04	<0.1	2.2	0.08	0.04	26	<0.1	0.11	6.5	2.76	<0.1	0.08
070488	Soil	12.2	31.3	0.87	26.1	0.004	1	2.32	0.003	0.03	<0.1	1.8	0.04	0.02	35	0.2	0.19	6.2	2.99	<0.1	0.11
070489	Soil	20.2	36.9	1.13	18.2	0.003	<1	2.73	0.004	0.03	<0.1	3.1	0.02	<0.02	27	0.9	<0.02	7.9	4.77	0.2	0.18
070490	Soil	15.6	36.8	1.17	38.0	0.002	1	2.50	0.003	0.02	<0.1	2.7	0.05	<0.02	10	0.1	0.10	6.4	1.07	<0.1	0.05
070491	Soil	6.4	22.2	0.31	58.0	0.005	4	1.20	0.004	0.04	0.1	0.7	0.05	0.12	130	1.0	<0.02	4.8	1.20	<0.1	0.08
070492	Soil	8.2	27.3	0.55	21.7	0.005	2	1.84	0.004	0.03	<0.1	1.3	0.07	0.07	54	0.3	0.09	5.5	4.54	<0.1	0.23
070493	Soil	17.1	28.2	0.96	30.2	0.003	2	2.06	0.004	0.04	0.1	1.6	0.02	0.05	25	0.2	0.03	5.9	1.78	0.1	0.07
070494	Soil	2.7	5.7	0.07	41.5	0.003	<1	0.69	0.020	0.02	<0.1	<0.1	0.03	0.05	46	0.3	<0.02	2.8	0.46	<0.1	<0.02
070495	Soil	17.7	29.4	0.66	57.0	0.009	<1	2.12	0.004	0.03	<0.1	1.5	0.06	0.04	29	0.7	0.02	7.4	2.04	0.2	0.04
070496	Soil	13.9	23.3	0.59	29.9	0.002	<1	1.70	0.003	0.03	<0.1	2.5	0.05	0.03	32	0.2	0.05	5.1	1.71	<0.1	0.11



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**Project:** NA-16176  
**Report Date:** September 19, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000237.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
070467	Soil	<0.02	1.1	0.2	<0.05	6.4	6.84	25.6	<0.02	<1	0.4	76.9	<10	<2
070468	Soil	0.17	1.7	0.4	<0.05	1.1	1.22	6.5	0.03	<1	<0.1	17.8	<10	<2
070469	Soil	0.10	3.3	0.2	<0.05	6.7	15.13	13.2	0.03	<1	0.2	40.7	<10	<2
070470	Soil	<0.02	3.3	0.3	<0.05	4.8	14.02	42.7	0.02	<1	0.7	64.5	<10	<2
070471	Soil	0.20	5.3	0.2	<0.05	3.4	2.23	29.4	0.02	<1	0.6	61.6	<10	2
070472	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
070473	Soil	0.17	3.8	0.2	<0.05	2.6	1.59	31.4	0.02	<1	0.2	52.1	<10	2
070474	Soil	0.02	1.6	0.2	<0.05	4.2	6.65	30.1	<0.02	<1	<0.1	66.7	<10	<2
070475	Soil	0.02	1.9	0.1	<0.05	3.7	4.68	27.3	0.02	<1	<0.1	70.5	<10	<2
070476	Soil	0.09	4.0	0.3	<0.05	1.9	3.90	14.5	<0.02	<1	0.2	25.4	<10	<2
070477	Soil	0.07	2.0	0.1	<0.05	5.0	6.42	23.3	<0.02	<1	0.6	51.4	<10	<2
070478	Soil	0.07	2.2	0.2	<0.05	4.8	7.09	22.3	0.02	<1	0.2	45.8	<10	<2
070479	Soil	0.04	2.0	0.2	<0.05	3.0	4.85	25.2	<0.02	<1	0.4	65.5	<10	<2
070480	Soil	0.28	4.5	0.3	<0.05	1.5	8.89	24.7	<0.02	<1	0.5	31.8	<10	<2
070481	Soil	0.20	4.0	0.3	<0.05	2.2	4.48	34.0	0.02	<1	1.7	77.7	<10	<2
070482	Soil	0.19	3.3	0.2	<0.05	1.9	8.09	39.8	0.02	<1	0.4	61.6	<10	<2
070483	Soil	0.02	2.3	0.3	<0.05	3.2	5.83	25.6	<0.02	<1	0.2	53.1	<10	<2
070484	Soil	0.09	2.9	0.2	<0.05	2.9	6.08	15.8	<0.02	<1	0.2	32.9	<10	<2
070485	Soil	0.05	2.4	0.6	<0.05	3.3	3.30	35.9	0.03	<1	<0.1	94.5	11	<2
070486	Soil	0.26	5.5	0.7	<0.05	2.5	5.88	15.4	<0.02	<1	0.5	44.1	<10	<2
070487	Soil	0.12	3.6	0.2	<0.05	3.0	5.39	33.3	0.04	<1	0.7	69.5	<10	<2
070488	Soil	0.16	4.4	0.5	<0.05	3.7	2.37	23.8	0.04	<1	0.8	68.6	<10	<2
070489	Soil	0.06	3.3	0.4	<0.05	4.9	3.64	38.9	0.03	<1	0.2	82.4	<10	<2
070490	Soil	<0.02	1.6	0.3	<0.05	2.8	6.44	30.7	<0.02	<1	0.8	80.1	<10	<2
070491	Soil	0.26	3.5	0.2	<0.05	3.3	1.30	11.7	<0.02	<1	0.2	19.2	<10	<2
070492	Soil	0.24	3.1	0.3	<0.05	7.3	2.67	16.1	0.02	<1	0.6	38.8	10	<2
070493	Soil	0.08	3.5	0.1	<0.05	3.0	1.61	32.1	<0.02	<1	0.4	66.2	<10	<2
070494	Soil	0.16	2.2	0.3	<0.05	0.4	0.84	5.5	<0.02	<1	0.3	4.1	<10	<2
070495	Soil	0.29	7.4	0.4	<0.05	2.0	2.51	32.9	0.03	<1	<0.1	51.3	<10	3
070496	Soil	0.12	5.1	0.2	<0.05	2.5	7.26	28.2	0.03	<1	0.5	45.4	<10	<2



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**Project:** NA-16176  
**Report Date:** September 19, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000237.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
070497	Soil	0.72	113.90	227.14	105.2	369	56.5	95.2	7224	8.06	247.0	2.3	45.2	20.2	6.3	0.18	4.84	4.92	13	0.08	0.059
070498	Soil	0.81	53.09	41.24	94.7	93	38.6	13.9	629	4.84	31.8	1.5	1.9	11.3	4.5	0.08	0.56	0.51	16	0.01	0.047
070499	Soil	0.55	31.92	37.40	73.6	139	29.6	19.8	1203	2.96	16.1	2.6	4.0	3.9	5.8	0.11	0.26	0.27	13	0.07	0.076
070500	Soil	0.50	30.22	39.52	90.0	106	35.5	24.7	1296	3.04	22.8	3.1	1.0	2.7	2.8	0.10	0.27	0.26	12	0.01	0.055
070301	Soil	0.27	33.14	28.40	108.3	98	20.9	9.5	556	2.86	51.7	0.9	3.3	9.4	29.6	0.19	0.48	0.30	9	0.52	0.076
070302	Soil	0.51	29.94	21.07	68.6	111	32.9	13.9	264	3.26	14.8	1.4	1.5	3.7	201.8	0.13	0.48	0.34	13	4.98	0.070
070303	Soil	0.53	42.54	31.07	82.5	158	40.1	20.3	410	4.02	36.3	1.7	2.9	14.1	182.7	0.10	0.60	0.39	7	4.54	0.055
070304	Soil	0.42	32.74	21.69	74.0	104	35.9	15.8	303	3.42	41.0	1.4	4.0	13.5	102.9	0.08	0.55	0.33	8	2.60	0.056
070305	Soil	0.40	38.36	25.55	70.2	86	38.9	17.2	383	3.34	12.2	1.1	2.0	6.3	248.6	0.07	0.46	0.30	17	5.76	0.056
070306	Soil	0.49	68.86	64.80	117.2	115	51.3	60.9	947	4.16	22.6	1.6	1.2	14.5	10.2	0.06	0.69	0.53	13	0.15	0.041
070307	Soil	0.38	46.56	36.25	92.1	116	40.2	25.8	781	3.92	14.2	1.3	1.3	13.9	7.7	0.07	0.54	0.52	14	0.09	0.061
070308	Soil	0.58	65.51	18.67	63.8	59	30.2	15.9	618	2.81	32.2	0.4	9.4	6.0	68.4	0.78	2.86	0.24	14	4.83	0.106
070309	Soil	0.15	102.95	9.94	51.7	39	30.3	12.6	599	2.06	2.1	0.3	1.3	13.8	19.4	0.28	0.47	0.15	14	1.05	0.088
070310	Soil	0.66	113.04	32.57	76.1	71	28.0	13.6	836	2.65	7.7	0.4	4.8	3.5	27.5	1.58	2.45	0.31	10	1.74	0.113
070311	Soil	0.63	108.21	31.48	73.0	72	28.4	13.5	850	2.58	7.6	0.4	4.7	4.0	27.4	1.47	2.46	0.30	11	1.84	0.113
070312	Soil	0.24	35.32	27.14	80.8	56	37.8	16.7	733	3.51	18.1	0.5	71.9	8.7	17.7	0.32	0.71	0.28	14	0.73	0.080
070313	Soil	0.92	117.59	81.68	108.4	60	51.1	38.8	977	4.68	22.4	3.5	2.7	12.9	6.6	0.06	0.74	0.98	14	0.10	0.051
070314	Soil	0.74	99.88	75.98	92.2	64	52.1	28.7	950	4.48	14.4	1.7	43.4	14.1	5.6	0.06	0.77	0.75	17	0.09	0.056
070315	Soil	1.00	121.83	71.88	143.6	114	59.5	119.3	2911	4.84	48.8	6.5	5.3	11.2	9.2	0.34	1.02	0.47	16	0.11	0.100
070316	Soil	0.78	47.47	49.98	90.8	86	40.3	9.7	717	5.23	50.9	1.8	4.7	8.2	14.1	0.05	1.60	0.54	18	0.01	0.082
070317	Soil	0.57	31.19	34.47	67.4	59	25.0	19.0	814	2.96	40.8	1.1	4.2	3.0	7.1	0.11	0.48	0.31	14	0.05	0.075
070318	Soil	0.68	49.43	42.25	96.7	56	40.5	30.0	1195	4.33	45.1	1.6	1.7	6.5	7.2	0.09	0.55	0.76	16	0.03	0.083
070319	Soil	0.82	66.88	45.14	108.4	76	49.0	28.7	970	4.69	155.1	2.3	9.4	9.8	9.8	0.08	0.92	0.50	16	0.08	0.053
070320	Soil	0.66	51.86	37.94	103.9	86	46.8	29.9	1098	4.84	46.6	1.3	2.8	9.0	7.7	0.10	0.70	0.49	17	0.04	0.056
070321	Soil	0.68	47.79	34.18	100.3	52	46.5	25.1	872	4.66	55.8	1.3	5.0	9.0	6.5	0.08	0.72	0.46	16	0.04	0.049
070322	Soil	0.61	28.40	22.30	81.1	145	31.6	12.8	535	4.25	38.4	0.8	0.4	3.0	5.0	0.14	0.53	0.44	18	0.02	0.071
070323	Soil	0.83	33.14	29.00	85.6	354	30.7	12.8	384	5.00	21.6	1.3	1.4	9.0	3.9	0.13	0.42	0.43	20	0.03	0.098
070324	Soil	0.82	26.69	36.61	77.8	196	25.0	17.0	1314	2.67	18.9	1.5	1.9	2.2	9.7	0.19	0.28	0.28	10	0.13	0.114
070325	Soil	1.00	38.40	33.41	77.4	133	27.7	12.1	310	3.39	46.2	7.4	25.2	11.6	12.8	0.07	2.29	0.49	8	0.13	0.039
070326	Soil	0.59	45.83	25.09	102.2	71	41.9	15.8	711	4.10	30.1	3.3	2.3	8.1	27.7	0.10	0.53	0.41	14	0.47	0.067



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**Project:** NA-16176  
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# CERTIFICATE OF ANALYSIS

# WHI16000237.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
070497	Soil	14.7	29.8	0.82	20.1	0.001	<1	2.24	0.004	0.04	<0.1	8.6	0.08	<0.02	60	0.9	0.57	6.7	5.98	<0.1	0.12
070498	Soil	13.4	33.3	0.88	25.4	0.002	1	2.27	0.004	0.02	<0.1	1.7	0.06	0.02	18	0.2	0.09	6.9	2.78	<0.1	0.10
070499	Soil	15.4	16.8	0.40	23.4	0.006	1	1.20	0.009	0.03	0.1	1.1	0.03	<0.02	50	0.1	0.04	3.6	1.58	<0.1	0.04
070500	Soil	21.4	13.8	0.20	18.9	0.003	1	0.73	0.005	0.02	0.2	1.0	0.04	0.03	60	<0.1	0.05	2.6	1.71	<0.1	0.03
070301	Soil	13.6	17.7	0.54	39.8	<0.001	1	1.70	0.002	0.04	<0.1	1.6	0.03	0.04	27	0.2	0.02	3.8	0.66	<0.1	0.09
070302	Soil	19.5	22.1	0.73	36.8	0.001	2	1.30	0.002	0.03	<0.1	2.2	0.03	0.07	22	0.6	0.08	3.0	0.25	<0.1	0.12
070303	Soil	13.1	15.5	0.63	26.6	<0.001	1	1.32	0.003	0.03	<0.1	2.5	0.03	0.09	48	0.5	0.06	2.8	0.42	<0.1	0.19
070304	Soil	15.4	15.9	0.60	20.9	<0.001	<1	1.31	0.002	0.04	<0.1	2.2	0.04	0.05	35	0.3	0.04	3.0	0.38	<0.1	0.15
070305	Soil	10.8	32.1	0.93	27.5	<0.001	1	1.61	0.002	0.03	<0.1	2.8	0.03	0.05	45	0.5	0.05	3.5	0.36	<0.1	0.13
070306	Soil	17.5	29.5	0.87	33.9	<0.001	<1	2.02	0.001	0.02	<0.1	1.7	0.04	<0.02	17	0.1	0.05	5.3	0.55	<0.1	0.06
070307	Soil	14.7	30.1	0.89	24.7	0.001	<1	2.05	0.002	0.03	<0.1	1.6	0.02	0.02	56	0.2	0.07	5.2	0.50	<0.1	0.04
070308	Soil	16.0	19.6	2.01	54.2	0.002	<1	0.88	0.004	0.03	<0.1	4.4	0.02	<0.02	10	0.2	0.04	2.0	0.39	<0.1	0.07
070309	Soil	27.2	19.0	1.27	61.1	0.003	2	1.11	0.002	0.06	<0.1	5.3	0.02	0.04	43	0.2	0.03	2.5	0.56	<0.1	0.03
070310	Soil	15.4	14.1	1.20	66.2	0.001	2	0.96	0.003	0.04	<0.1	3.7	<0.02	0.06	43	0.3	0.05	2.2	0.35	<0.1	0.04
070311	Soil	16.1	14.7	1.20	65.7	0.001	1	0.98	0.003	0.04	<0.1	3.9	<0.02	0.06	43	0.3	0.06	2.1	0.35	<0.1	0.05
070312	Soil	18.8	13.9	0.83	96.7	0.001	2	1.14	0.004	0.04	<0.1	7.0	0.02	0.05	35	0.7	0.04	2.2	0.71	<0.1	0.04
070313	Soil	19.8	34.1	1.11	38.1	0.002	<1	2.34	0.003	0.03	<0.1	2.7	<0.02	<0.02	29	<0.1	0.13	6.1	3.21	<0.1	0.07
070314	Soil	25.1	38.5	1.35	35.3	0.002	<1	2.42	0.003	0.03	<0.1	2.9	<0.02	<0.02	12	<0.1	0.14	5.8	2.52	<0.1	0.05
070315	Soil	10.6	33.7	0.93	53.2	0.002	<1	2.36	0.005	0.04	<0.1	2.7	0.07	0.05	79	0.4	0.07	6.3	4.57	<0.1	0.09
070316	Soil	17.0	39.8	0.99	27.6	0.001	<1	2.50	0.004	0.03	<0.1	1.8	0.04	0.04	16	0.2	0.11	7.3	3.73	<0.1	0.13
070317	Soil	11.7	21.5	0.52	35.2	0.004	<1	1.50	0.009	0.03	<0.1	0.9	0.03	0.02	29	<0.1	0.05	4.7	1.50	<0.1	0.05
070318	Soil	18.7	31.5	0.86	35.7	0.003	<1	2.22	0.007	0.03	<0.1	1.8	0.03	<0.02	16	<0.1	0.14	6.2	2.35	<0.1	0.07
070319	Soil	18.6	35.2	1.13	31.6	0.002	<1	2.42	0.004	0.03	<0.1	2.3	0.03	<0.02	17	0.1	0.07	6.5	2.31	<0.1	0.06
070320	Soil	24.8	34.7	1.06	26.2	0.004	1	2.40	0.005	0.03	<0.1	2.3	0.02	<0.02	21	<0.1	0.11	6.5	2.20	<0.1	0.11
070321	Soil	21.3	34.6	1.13	16.4	0.002	<1	2.43	0.004	0.02	<0.1	1.9	0.02	<0.02	11	<0.1	0.09	6.5	1.46	<0.1	0.07
070322	Soil	18.1	28.7	0.68	31.2	0.008	2	1.88	0.006	0.03	<0.1	1.3	0.03	0.03	21	0.1	0.07	5.7	1.31	<0.1	<0.02
070323	Soil	26.7	26.9	0.59	27.6	0.006	<1	1.73	0.002	0.03	<0.1	1.4	0.03	<0.02	36	0.2	0.06	6.6	1.10	<0.1	0.07
070324	Soil	11.5	18.6	0.35	42.5	0.005	1	1.01	0.008	0.04	<0.1	0.9	0.03	0.05	57	0.2	0.06	3.2	1.37	<0.1	0.09
070325	Soil	37.8	9.9	0.03	7.7	<0.001	<1	0.22	0.001	0.02	0.2	1.8	0.03	<0.02	20	0.1	0.15	1.0	0.93	<0.1	0.03
070326	Soil	13.6	30.5	0.94	29.0	0.002	<1	2.20	0.004	0.02	<0.1	2.1	0.02	0.03	14	0.2	0.06	5.6	1.38	<0.1	0.09



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		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
070497	Soil	0.02	4.2	0.5	<0.05	2.1	18.36	22.8	0.04	<1	0.8	63.6	13	6
070498	Soil	0.11	3.8	0.2	<0.05	4.8	2.30	23.9	0.03	<1	0.5	70.7	<10	<2
070499	Soil	0.07	2.8	0.3	<0.05	1.2	3.09	30.7	<0.02	<1	0.2	32.9	<10	<2
070500	Soil	0.06	3.5	0.3	<0.05	1.0	3.48	43.1	<0.02	<1	0.2	16.1	<10	<2
070301	Soil	0.04	5.1	0.4	<0.05	3.0	5.06	27.7	0.03	<1	0.5	34.8	<10	<2
070302	Soil	0.10	2.3	0.2	<0.05	4.1	9.82	35.1	0.02	<1	0.5	33.7	<10	<2
070303	Soil	<0.02	1.8	0.1	<0.05	10.1	8.79	23.7	0.03	<1	0.4	33.1	<10	<2
070304	Soil	<0.02	2.0	<0.1	<0.05	7.1	6.36	27.6	<0.02	<1	0.4	34.3	<10	<2
070305	Soil	0.02	2.0	0.3	<0.05	5.1	7.16	19.8	<0.02	<1	0.4	42.7	<10	<2
070306	Soil	0.04	2.0	0.1	<0.05	3.1	4.83	32.6	<0.02	<1	0.4	63.9	<10	<2
070307	Soil	0.04	3.0	0.2	<0.05	1.6	4.14	27.4	<0.02	<1	0.4	60.7	<10	<2
070308	Soil	0.09	2.4	0.3	<0.05	2.4	14.90	31.1	0.02	<1	0.4	19.8	<10	<2
070309	Soil	0.07	4.0	0.5	<0.05	0.8	8.78	53.8	<0.02	<1	0.5	43.1	<10	<2
070310	Soil	0.06	2.3	0.2	<0.05	1.4	17.22	31.4	0.02	<1	0.6	28.8	<10	<2
070311	Soil	0.07	2.3	0.2	<0.05	1.4	16.57	32.6	0.03	<1	0.8	31.4	<10	<2
070312	Soil	0.07	2.9	0.3	<0.05	1.6	11.13	37.7	0.04	<1	0.7	20.0	<10	<2
070313	Soil	0.03	2.7	0.2	<0.05	4.1	4.91	37.0	<0.02	<1	0.7	77.0	<10	<2
070314	Soil	0.02	2.6	0.2	<0.05	2.3	4.74	48.6	<0.02	<1	1.1	82.8	<10	<2
070315	Soil	0.08	4.1	0.6	<0.05	4.1	7.60	21.8	0.04	<1	0.6	75.6	<10	<2
070316	Soil	0.06	4.0	0.2	<0.05	4.4	1.33	31.7	0.03	<1	0.2	79.5	<10	<2
070317	Soil	0.13	3.3	0.3	<0.05	1.9	1.72	22.1	<0.02	<1	0.3	41.2	<10	<2
070318	Soil	0.10	4.1	0.2	<0.05	2.9	2.64	35.2	0.02	<1	0.4	67.3	<10	<2
070319	Soil	0.03	2.7	0.2	<0.05	2.5	3.44	34.6	0.02	<1	0.5	89.8	<10	<2
070320	Soil	0.11	3.9	0.1	<0.05	2.6	2.77	46.7	0.03	<1	0.4	84.3	<10	<2
070321	Soil	0.04	2.4	0.6	<0.05	2.4	2.71	40.8	0.03	<1	0.6	88.3	<10	<2
070322	Soil	0.27	6.5	0.3	<0.05	1.1	2.13	34.2	<0.02	<1	0.3	54.7	<10	<2
070323	Soil	0.37	3.8	0.3	<0.05	2.9	2.22	49.2	0.02	<1	0.3	47.5	<10	<2
070324	Soil	0.12	3.9	0.7	<0.05	1.8	2.11	21.9	<0.02	<1	0.3	25.9	<10	<2
070325	Soil	<0.02	2.0	0.2	<0.05	2.4	3.12	67.7	<0.02	<1	0.2	2.4	<10	<2
070326	Soil	0.08	3.3	0.2	<0.05	4.1	3.44	25.0	0.02	<1	0.5	70.3	<10	<2



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# WHI16000237.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
070327	Soil	0.58	33.80	19.72	57.4	75	29.0	16.3	1255	2.39	11.3	0.7	2.7	2.5	7.6	0.16	0.28	0.26	10	0.12	0.071
070328	Soil	0.65	37.56	32.50	64.8	66	25.7	12.0	446	3.16	25.2	1.4	1.3	3.0	5.8	0.05	0.57	0.34	15	0.04	0.072
070329	Soil	0.59	47.29	33.95	88.7	89	38.8	16.1	764	5.13	32.0	1.9	0.8	7.1	7.2	0.07	0.72	0.49	19	0.03	0.073
070330	Soil	0.72	50.71	43.32	119.2	43	52.2	39.1	975	4.94	85.6	1.2	9.3	7.4	5.5	0.12	0.68	0.47	19	0.03	0.050
070331	Soil	0.73	50.53	73.87	86.3	382	29.5	8.8	371	4.72	325.3	1.4	142.1	8.0	12.0	0.19	0.85	0.60	22	0.01	0.057
070332	Soil	0.73	35.75	160.53	99.4	280	33.2	10.5	531	5.22	548.6	1.0	80.4	2.8	10.9	0.31	1.01	0.67	23	0.03	0.083
070333	Soil	0.89	112.52	93.00	90.8	204	44.9	57.8	1905	3.58	179.7	2.2	50.7	20.1	24.3	0.23	0.98	0.43	15	0.35	0.050
070334	Soil	0.68	23.12	26.96	70.9	174	29.8	12.8	511	4.19	75.4	0.7	4.7	4.5	4.4	0.15	0.58	0.43	21	0.03	0.065
070335	Soil	0.81	39.16	56.07	46.7	153	14.2	10.7	532	2.40	16.7	1.3	1.3	1.6	10.6	0.06	0.42	0.47	16	0.02	0.092
070336	Soil	0.72	41.55	41.53	64.4	198	21.7	13.9	693	3.49	31.1	1.1	1.9	3.3	4.5	0.09	0.48	0.50	18	0.01	0.079
070337	Soil	1.00	77.72	44.69	106.8	96	63.4	31.4	1117	5.30	29.4	3.8	1.9	11.4	6.3	0.10	1.25	0.71	11	0.07	0.035
070338	Soil	0.34	33.15	24.34	76.8	71	36.5	15.1	465	3.40	19.2	1.4	3.2	7.5	31.2	0.05	0.61	0.37	13	0.88	0.052
070339	Soil	0.51	32.58	20.43	62.4	30	27.0	11.9	405	3.13	19.4	0.8	2.1	3.9	8.8	0.05	0.77	0.35	12	0.17	0.043
070340	Soil	0.71	59.46	35.26	97.1	55	54.3	22.0	651	4.87	36.9	1.5	6.9	10.3	4.2	0.07	1.73	0.56	13	0.07	0.043
070071	Soil	0.41	30.06	22.02	63.7	58	35.6	17.2	553	3.17	107.9	1.3	7.1	9.4	14.9	0.10	0.43	0.25	33	0.23	0.043
070072	Soil	0.42	29.33	21.91	63.2	58	34.8	16.7	543	3.15	108.0	1.2	7.4	9.0	14.5	0.08	0.43	0.24	32	0.23	0.041
070073	Soil	0.84	32.68	22.28	65.0	56	28.4	10.8	311	3.56	79.7	1.2	4.6	4.2	7.6	0.06	0.87	0.53	24	0.02	0.062
070074	Soil	0.84	15.75	15.61	42.4	56	17.3	6.1	234	2.88	43.2	0.7	2.8	2.0	4.8	0.06	0.45	0.29	24	0.03	0.085
070075	Soil	0.29	41.96	77.13	58.2	203	35.2	35.6	947	2.92	741.5	2.7	85.5	16.5	21.5	0.12	1.44	0.51	7	0.13	0.041
070076	Soil	0.30	35.77	34.90	53.8	117	29.9	23.6	680	2.18	254.5	1.6	16.8	11.5	12.6	0.10	0.54	0.43	8	0.12	0.045
070077	Soil	0.42	35.83	29.67	66.8	85	38.3	23.8	660	3.23	43.7	1.2	3.9	11.9	74.8	0.07	0.42	0.27	31	0.33	0.042
070078	Soil	0.47	44.10	46.29	69.7	193	44.6	28.9	888	3.06	119.4	1.1	44.1	12.4	18.1	0.08	0.54	0.49	23	0.30	0.049
070079	Soil	0.84	46.97	45.98	97.9	264	46.9	21.9	978	4.25	25.5	2.6	4.3	11.2	50.5	0.12	1.05	0.38	13	0.98	0.073
070080	Soil	0.30	33.15	19.44	65.5	118	25.0	9.7	212	2.50	9.3	1.4	1.6	4.3	27.8	0.04	0.29	0.26	8	0.51	0.055
070081	Soil	0.40	45.04	33.67	89.2	163	38.0	20.9	607	3.86	55.9	3.1	7.0	10.5	34.0	0.08	0.71	0.38	10	0.42	0.063
070082	Soil	0.36	52.17	35.70	98.8	131	40.9	20.6	473	4.11	24.3	2.1	3.8	15.0	24.6	0.03	0.58	0.44	12	0.27	0.048
070083	Soil	0.52	39.78	38.88	70.4	88	29.2	19.8	718	3.37	42.9	1.4	5.6	8.6	19.7	0.03	0.68	0.46	13	0.11	0.050
070084	Soil	0.22	54.32	11.96	50.6	35	26.5	8.8	235	2.22	3.1	0.3	3.5	7.0	8.5	0.16	0.64	0.20	14	0.29	0.081
070085	Soil	1.71	38.58	151.01	96.0	247	106.7	37.0	2517	5.94	27.4	1.2	128.2	4.1	16.0	0.20	0.54	0.53	50	0.60	0.106
070086	Soil	0.21	29.02	8.59	54.0	22	30.1	9.2	187	2.53	4.1	0.3	1.0	7.1	8.2	0.08	0.26	0.24	17	0.21	0.079



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**Project:** NA-16176  
**Report Date:** September 19, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000237.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
070327	Soil	11.5	22.9	0.67	51.0	0.005	<1	1.26	0.010	0.03	<0.1	1.1	0.02	0.03	27	<0.1	0.06	3.6	0.67	<0.1	0.02
070328	Soil	10.4	24.0	0.58	20.6	0.005	<1	1.76	0.011	0.02	<0.1	1.1	0.03	0.02	20	0.3	0.06	5.7	2.93	<0.1	0.08
070329	Soil	13.5	37.5	0.93	22.4	0.003	<1	2.35	0.004	0.02	<0.1	1.8	0.02	<0.02	22	0.1	0.07	7.7	3.06	<0.1	0.09
070330	Soil	16.9	40.0	1.10	32.5	0.003	<1	2.66	0.003	0.02	<0.1	1.9	0.02	<0.02	8	0.2	0.08	7.2	1.38	<0.1	0.09
070331	Soil	19.9	27.9	0.69	31.5	0.008	<1	1.89	0.005	0.02	0.1	1.4	0.03	<0.02	38	0.2	0.07	7.9	1.88	<0.1	0.03
070332	Soil	14.8	35.6	0.77	55.6	0.007	<1	2.02	0.003	0.02	<0.1	1.2	0.04	0.03	41	0.3	0.07	7.4	0.99	<0.1	0.03
070333	Soil	19.6	33.3	0.85	99.5	<0.001	<1	2.14	0.002	0.03	<0.1	2.5	0.06	<0.02	24	0.1	0.08	5.3	2.27	<0.1	0.04
070334	Soil	14.4	30.9	0.73	29.3	0.006	1	1.76	0.003	0.03	<0.1	1.2	0.03	0.03	26	0.2	0.07	6.3	0.98	<0.1	0.03
070335	Soil	8.2	15.6	0.31	39.8	0.007	1	1.07	0.010	0.04	<0.1	0.7	0.05	0.05	43	0.2	0.06	4.3	2.92	<0.1	<0.02
070336	Soil	12.9	22.6	0.47	31.2	0.004	<1	1.58	0.005	0.03	<0.1	0.9	0.05	0.03	33	<0.1	0.05	5.7	2.11	<0.1	0.04
070337	Soil	20.6	22.6	0.69	22.0	<0.001	<1	1.75	0.004	0.02	<0.1	3.4	0.04	<0.02	39	0.4	0.10	4.2	1.70	<0.1	0.06
070338	Soil	9.9	25.4	0.81	25.8	0.001	1	1.61	0.002	0.02	<0.1	2.3	<0.02	0.07	15	0.3	0.05	4.3	0.41	<0.1	0.09
070339	Soil	11.2	19.4	0.48	25.7	0.002	<1	1.30	0.008	0.02	<0.1	1.4	0.03	<0.02	13	0.1	0.05	4.0	0.96	<0.1	0.03
070340	Soil	17.0	28.0	0.81	20.7	0.001	<1	2.02	0.002	0.02	<0.1	3.3	0.03	<0.02	16	0.3	0.07	5.0	1.07	<0.1	0.11
070071	Soil	16.5	52.2	1.08	50.7	0.005	<1	1.91	0.004	0.03	<0.1	3.5	0.04	<0.02	14	<0.1	0.02	5.2	0.84	<0.1	0.05
070072	Soil	15.9	49.2	1.05	49.9	0.004	<1	1.87	0.004	0.03	<0.1	3.6	0.03	<0.02	11	<0.1	<0.02	5.1	0.84	<0.1	0.05
070073	Soil	12.2	25.6	0.57	26.0	0.007	<1	1.62	0.003	0.05	0.1	1.1	0.07	0.06	49	0.3	0.05	5.0	0.79	<0.1	0.02
070074	Soil	12.0	27.6	0.36	17.0	0.011	1	1.18	0.002	0.03	0.1	1.0	0.05	0.08	54	0.3	0.04	4.6	0.92	<0.1	<0.02
070075	Soil	16.2	11.5	0.44	33.6	0.002	<1	1.20	0.005	0.03	<0.1	1.4	0.05	<0.02	20	0.3	0.04	2.7	0.72	<0.1	0.03
070076	Soil	13.4	11.9	0.39	26.4	0.003	<1	1.11	0.007	0.03	<0.1	1.2	0.03	<0.02	16	0.2	0.02	2.7	0.63	<0.1	0.04
070077	Soil	10.3	41.3	1.10	80.6	0.006	<1	1.82	0.005	0.04	<0.1	3.5	0.03	<0.02	15	0.2	0.03	4.6	0.75	<0.1	0.08
070078	Soil	15.5	39.7	0.92	32.2	<0.001	<1	1.76	0.004	0.03	<0.1	3.9	0.03	<0.02	19	0.2	0.04	4.1	1.11	<0.1	0.06
070079	Soil	20.8	24.0	0.63	39.2	0.001	<1	1.50	0.005	0.03	<0.1	4.7	0.05	0.02	49	0.5	0.07	3.3	0.57	<0.1	0.12
070080	Soil	8.8	12.9	0.36	40.7	0.003	<1	1.20	0.018	0.02	<0.1	1.6	0.02	0.04	25	0.2	0.03	2.9	0.37	<0.1	0.11
070081	Soil	12.4	19.5	0.63	42.8	0.001	<1	1.67	0.005	0.03	<0.1	2.9	0.03	0.03	29	0.4	0.05	3.9	0.51	<0.1	0.17
070082	Soil	15.2	26.6	0.82	33.1	<0.001	<1	2.00	0.003	0.03	<0.1	2.0	0.02	<0.02	15	0.3	0.05	5.1	0.55	<0.1	0.11
070083	Soil	11.0	21.0	0.68	27.9	0.001	<1	1.79	0.006	0.03	<0.1	1.2	0.03	0.04	17	0.1	0.03	4.5	0.68	<0.1	0.07
070084	Soil	19.5	17.9	0.80	43.1	0.003	<1	1.08	0.005	0.02	<0.1	4.9	<0.02	0.03	19	0.2	0.04	2.8	0.45	<0.1	0.02
070085	Soil	14.7	181.3	1.54	120.7	0.002	<1	2.33	0.003	0.02	<0.1	16.6	<0.02	0.04	44	0.4	0.05	6.2	0.72	<0.1	0.04
070086	Soil	24.7	22.1	0.83	58.4	0.004	<1	1.23	0.003	0.02	<0.1	4.5	<0.02	0.02	10	0.2	0.03	3.3	0.41	<0.1	0.03



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# CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2	
070327	Soil	0.12	1.9	0.2	<0.05	1.1	2.05	22.4	<0.02	<1	0.3	42.3	<10	<2
070328	Soil	0.17	3.5	0.3	<0.05	2.6	1.94	20.9	<0.02	<1	0.4	46.2	<10	<2
070329	Soil	0.12	3.5	0.1	<0.05	3.2	1.83	26.9	0.02	<1	0.3	71.8	<10	<2
070330	Soil	0.10	2.8	0.2	<0.05	3.4	2.61	32.5	0.02	<1	0.4	89.7	<10	<2
070331	Soil	0.41	3.8	0.3	<0.05	2.4	1.94	36.7	0.03	<1	0.2	50.7	<10	<2
070332	Soil	0.29	2.8	0.3	<0.05	1.1	1.78	27.7	0.04	<1	0.3	57.3	<10	<2
070333	Soil	<0.02	2.6	0.2	<0.05	2.7	6.76	39.8	0.03	<1	0.9	62.1	<10	<2
070334	Soil	0.35	4.7	0.4	<0.05	1.1	1.76	27.5	0.03	<1	0.2	47.3	<10	<2
070335	Soil	0.25	4.8	0.4	<0.05	1.2	1.23	15.9	0.03	<1	0.2	22.8	<10	<2
070336	Soil	0.26	5.0	0.2	<0.05	1.6	1.65	24.8	<0.02	<1	0.4	37.0	<10	<2
070337	Soil	<0.02	1.5	0.2	<0.05	5.6	8.30	42.0	0.04	<1	0.4	49.4	<10	<2
070338	Soil	0.05	1.7	0.1	<0.05	3.3	5.11	19.0	<0.02	<1	0.3	50.7	<10	<2
070339	Soil	0.10	2.5	0.2	<0.05	1.7	2.04	21.9	<0.02	<1	0.3	35.7	<10	<2
070340	Soil	0.08	2.2	0.2	<0.05	4.8	6.77	36.7	0.04	<1	0.6	59.1	<10	<2
070071	Soil	0.10	3.7	0.3	<0.05	2.5	5.84	33.1	0.02	<1	0.6	40.6	<10	<2
070072	Soil	0.09	3.5	0.4	<0.05	2.3	5.64	32.2	<0.02	<1	0.4	36.8	<10	<2
070073	Soil	0.38	6.1	0.5	<0.05	1.0	2.26	24.9	0.02	<1	0.3	33.9	<10	<2
070074	Soil	0.40	5.1	1.3	<0.05	0.4	1.91	24.0	<0.02	<1	0.1	17.5	<10	<2
070075	Soil	0.04	2.9	0.2	<0.05	2.0	5.85	35.1	<0.02	<1	0.5	18.8	<10	<2
070076	Soil	0.08	2.6	0.4	<0.05	2.4	4.56	27.5	<0.02	<1	0.4	18.9	<10	<2
070077	Soil	0.05	2.6	0.3	<0.05	5.8	5.88	21.2	<0.02	<1	0.5	36.6	<10	<2
070078	Soil	0.03	2.6	0.3	<0.05	3.4	7.21	32.2	<0.02	<1	0.7	36.8	<10	<2
070079	Soil	0.05	2.5	0.2	<0.05	5.6	15.81	41.7	0.02	<1	0.6	37.6	<10	<2
070080	Soil	0.16	2.1	0.9	<0.05	4.3	6.40	16.4	<0.02	<1	0.4	24.5	<10	<2
070081	Soil	0.09	2.6	0.2	<0.05	6.3	10.96	24.7	0.02	<1	0.6	40.2	<10	<2
070082	Soil	0.03	2.1	0.3	<0.05	5.7	6.84	29.4	<0.02	<1	0.5	60.8	<10	<2
070083	Soil	0.06	2.8	0.3	<0.05	2.9	2.64	22.0	0.02	<1	0.5	48.4	<10	<2
070084	Soil	0.11	2.3	0.4	<0.05	1.1	10.42	41.5	0.02	<1	0.4	35.6	<10	<2
070085	Soil	0.06	1.9	0.3	<0.05	1.2	14.75	30.9	0.05	<1	2.0	63.6	<10	2
070086	Soil	0.15	3.2	0.3	<0.05	1.2	8.56	51.5	<0.02	<1	0.4	42.2	<10	<2



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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
070087	Soil	0.33	26.33	13.18	58.7	49	36.8	12.2	376	2.90	13.1	0.4	6.4	8.2	9.1	0.16	1.89	0.27	16	0.33	0.086
070088	Soil	0.34	40.09	15.65	66.6	36	36.7	14.8	439	2.92	6.0	0.4	3.1	10.0	9.6	0.13	0.29	0.22	17	0.26	0.085
070089	Soil	0.51	30.34	19.71	71.6	39	40.3	14.2	525	3.44	11.4	0.7	7.6	4.5	10.9	0.10	0.42	0.33	25	0.21	0.076
070090	Soil	0.37	69.40	22.46	65.6	91	82.1	23.6	1297	3.46	3.5	0.6	3.3	5.4	13.7	0.08	0.21	0.17	31	0.34	0.106
070091	Soil	0.45	36.48	15.20	79.0	25	36.6	15.2	1010	3.84	4.4	0.4	0.3	9.9	3.3	0.04	0.22	0.20	17	0.04	0.054
070092	Soil	0.45	69.47	85.59	107.4	91	44.7	25.6	704	4.78	96.1	1.9	11.7	13.4	11.5	0.02	0.29	0.68	17	0.12	0.042
070093	Soil	0.55	41.92	33.98	79.8	65	36.4	29.2	837	3.53	33.7	0.9	4.4	4.0	5.1	0.09	0.43	0.34	16	0.05	0.060
070094	Soil	0.54	43.46	53.03	89.2	130	39.6	27.6	1080	4.02	40.9	1.3	7.3	4.3	7.5	0.09	0.45	0.45	18	0.07	0.076
070095	Soil	0.56	23.34	25.28	73.8	134	28.6	13.4	948	4.59	22.1	0.9	3.1	3.6	3.5	0.10	0.35	0.37	18	0.01	0.100
070096	Soil	0.47	31.44	22.24	68.5	44	29.6	9.2	282	3.70	26.9	0.8	1.1	6.0	3.2	0.04	0.49	0.32	17	0.02	0.042
070097	Soil	0.55	67.98	70.28	105.4	96	46.2	40.6	1168	4.58	13.5	2.0	1.3	13.0	19.7	0.05	0.57	0.46	16	0.22	0.091
070098	Soil	0.79	158.06	65.35	143.1	265	67.1	66.8	835	4.85	22.7	6.1	3.9	28.6	24.5	0.08	1.22	0.63	11	0.19	0.065
070099	Soil	0.51	45.19	36.19	86.5	94	35.7	26.4	709	4.02	10.1	1.9	1.4	8.6	6.8	0.06	0.63	0.40	13	0.03	0.087
070100	Soil	0.42	57.56	33.36	88.0	110	43.7	28.8	718	4.25	14.1	2.8	3.5	10.5	17.7	0.07	0.63	0.41	12	0.13	0.065
072821	Soil	0.84	31.23	41.70	118.3	335	21.1	13.9	798	4.93	96.6	0.9	13.2	10.2	11.4	0.38	0.75	0.57	21	0.05	0.089
072822	Soil	0.45	12.22	12.79	39.1	99	6.0	3.8	172	1.60	13.1	0.3	1.5	2.1	7.1	0.17	0.24	0.24	14	0.05	0.030
072823	Soil	0.56	11.00	13.13	40.5	429	8.0	4.2	242	2.46	38.9	0.5	1.1	1.0	5.8	0.11	0.31	0.32	18	0.03	0.060
072824	Soil	0.40	19.89	19.98	45.8	71	21.3	8.2	175	2.62	19.2	0.5	2.5	6.2	5.4	0.03	0.30	0.25	12	0.02	0.018
072825	Soil	0.74	18.29	12.95	67.8	114	17.3	8.6	227	4.72	25.9	0.7	1.2	4.9	3.7	0.11	0.38	0.45	23	0.01	0.054
072826	Soil	1.08	32.76	28.25	87.9	590	31.0	13.8	242	6.09	58.8	0.8	1.4	8.9	4.9	0.09	0.64	0.70	23	0.02	0.072
072827	Soil	0.44	14.02	13.75	39.6	258	12.2	5.3	157	1.91	20.9	0.5	0.9	1.2	5.9	0.48	0.33	0.32	16	0.04	0.059
072828	Soil	0.58	32.62	17.58	87.0	297	25.8	12.7	507	3.76	49.7	0.6	1.0	3.6	11.1	0.64	0.50	0.45	14	0.11	0.045
072829	Soil	0.44	20.01	17.40	91.4	245	14.8	17.3	1416	2.22	70.0	0.6	0.8	1.7	20.7	0.64	0.42	0.32	13	0.31	0.053
072830	Soil	0.69	34.59	43.78	131.2	130	45.2	24.2	529	4.32	560.3	4.1	11.5	9.1	10.1	0.27	1.11	0.42	10	0.13	0.033
072831	Soil	0.62	24.88	18.28	41.7	409	10.4	5.8	243	2.91	22.8	0.7	1.5	0.8	5.8	0.23	0.42	0.29	19	0.02	0.057
072832	Soil	0.57	17.84	16.01	51.9	466	8.7	5.2	264	2.41	10.1	0.5	0.5	1.8	6.2	0.11	0.32	0.30	16	0.03	0.048
072833	Soil	0.38	23.54	23.19	84.3	663	16.2	15.3	771	2.28	19.2	0.8	1.4	0.8	10.6	0.79	0.30	0.27	11	0.10	0.087
072834	Soil	0.48	14.73	19.86	76.7	310	14.4	14.7	679	2.43	17.9	0.5	0.5	2.8	11.0	0.15	0.19	0.24	14	0.11	0.044
072835	Soil	0.59	30.34	20.12	70.3	131	32.2	10.6	550	3.81	38.0	0.7	4.5	5.4	20.6	0.35	0.62	0.38	13	0.20	0.068
072836	Soil	0.36	28.55	19.07	69.6	198	31.1	10.7	358	3.53	26.2	0.7	3.4	5.2	3.0	0.06	0.41	0.29	12	0.03	0.044



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**Project:** NA-16176  
**Report Date:** September 19, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
070087	Soil	21.5	23.7	0.96	44.0	0.004	<1	1.28	0.002	0.02	<0.1	5.6	<0.02	<0.02	13	0.3	0.04	3.3	0.46	<0.1	0.03
070088	Soil	21.1	25.0	0.89	50.6	0.007	<1	1.32	0.003	0.03	<0.1	4.7	0.03	<0.02	8	0.1	0.04	3.6	0.41	<0.1	0.04
070089	Soil	17.2	35.4	0.69	129.9	0.007	<1	1.71	0.006	0.03	<0.1	3.9	0.07	0.04	19	0.3	0.04	5.0	1.22	<0.1	0.04
070090	Soil	13.6	99.2	1.32	100.1	0.005	<1	2.12	0.008	0.03	<0.1	7.5	0.03	0.03	19	0.2	0.03	5.4	1.20	<0.1	0.08
070091	Soil	25.2	33.3	1.47	25.2	0.001	<1	2.49	0.003	0.02	<0.1	1.6	<0.02	<0.02	13	<0.1	0.03	6.6	1.49	<0.1	0.06
070092	Soil	22.4	39.4	1.25	32.5	<0.001	<1	2.76	0.004	0.03	<0.1	2.4	<0.02	<0.02	<5	<0.1	0.09	7.4	1.33	<0.1	0.04
070093	Soil	14.4	30.6	0.82	23.0	0.004	<1	1.92	0.009	0.03	<0.1	1.4	<0.02	0.03	16	0.2	0.05	5.7	1.40	<0.1	0.08
070094	Soil	13.7	36.6	0.90	37.7	0.003	<1	2.05	0.006	0.03	<0.1	1.7	0.03	0.04	23	0.1	0.06	6.3	1.85	<0.1	0.09
070095	Soil	12.8	31.0	0.66	30.3	0.004	<1	1.84	0.004	0.02	<0.1	1.1	0.03	0.03	25	0.2	0.06	7.1	1.45	<0.1	0.06
070096	Soil	15.1	26.6	0.67	17.0	0.003	<1	1.71	0.003	0.02	<0.1	1.2	0.03	<0.02	16	0.1	0.04	5.8	1.10	<0.1	0.04
070097	Soil	17.7	33.2	0.96	24.0	<0.001	<1	2.14	0.002	0.02	<0.1	2.2	0.04	<0.02	20	0.1	0.06	6.1	0.86	<0.1	0.04
070098	Soil	11.6	27.2	0.81	21.7	<0.001	<1	2.12	0.003	0.05	<0.1	2.2	0.06	0.03	18	0.4	0.09	4.8	1.92	<0.1	0.10
070099	Soil	9.1	25.7	0.71	21.9	0.002	<1	1.90	0.003	0.04	<0.1	1.4	0.04	0.06	53	0.3	0.04	4.8	0.64	<0.1	0.16
070100	Soil	10.7	26.9	0.84	23.8	<0.001	2	2.09	0.003	0.03	<0.1	1.5	0.03	0.03	26	0.2	0.06	5.3	0.65	<0.1	0.13
072821	Soil	21.5	21.2	0.36	53.7	0.004	2	1.49	0.004	0.06	0.1	1.5	0.08	0.03	61	0.2	0.04	6.1	4.06	<0.1	0.04
072822	Soil	16.0	5.6	0.05	33.1	0.005	1	0.39	0.011	0.05	<0.1	0.5	0.04	<0.02	13	<0.1	0.03	3.4	2.80	<0.1	<0.02
072823	Soil	12.0	9.1	0.10	38.3	0.004	1	0.81	0.011	0.03	0.1	0.5	0.05	<0.02	32	0.1	0.05	5.6	1.74	<0.1	<0.02
072824	Soil	18.2	15.9	0.34	49.4	0.004	1	1.46	0.011	0.06	0.1	1.3	0.05	<0.02	20	0.1	0.04	3.8	1.66	<0.1	0.07
072825	Soil	20.5	21.2	0.29	36.1	0.007	1	1.34	0.007	0.03	<0.1	1.4	0.04	<0.02	18	0.1	0.08	8.1	2.22	<0.1	<0.02
072826	Soil	29.3	17.6	0.12	28.6	0.003	1	1.10	0.005	0.04	0.3	1.3	0.06	<0.02	31	0.4	0.06	6.1	3.79	<0.1	0.03
072827	Soil	15.2	9.7	0.20	34.6	0.003	<1	0.89	0.011	0.04	<0.1	0.6	0.04	<0.02	26	<0.1	0.06	4.5	0.91	<0.1	<0.02
072828	Soil	23.2	13.8	0.22	42.8	0.004	<1	0.90	0.008	0.04	<0.1	1.0	0.04	0.02	18	0.1	0.04	4.0	2.77	<0.1	<0.02
072829	Soil	13.9	10.6	0.17	78.8	0.008	1	0.88	0.008	0.04	<0.1	1.0	0.04	0.04	23	0.2	0.04	3.5	1.85	<0.1	0.03
072830	Soil	19.1	19.3	0.43	19.5	0.001	1	1.23	0.003	0.06	<0.1	2.1	0.03	<0.02	9	0.2	0.05	3.5	2.66	<0.1	0.06
072831	Soil	9.5	14.7	0.14	30.6	0.009	1	1.06	0.013	0.03	<0.1	0.6	0.03	0.03	40	0.2	0.04	5.8	1.88	<0.1	<0.02
072832	Soil	9.8	12.0	0.15	36.3	0.010	2	1.00	0.015	0.04	<0.1	0.8	0.03	0.02	42	0.3	0.06	5.5	3.81	<0.1	<0.02
072833	Soil	8.4	12.6	0.21	40.6	0.004	<1	0.98	0.011	0.05	<0.1	0.4	0.03	0.04	26	0.1	0.06	4.2	1.49	<0.1	0.04
072834	Soil	14.9	12.9	0.26	72.9	0.004	<1	1.08	0.014	0.05	<0.1	0.8	0.03	<0.02	24	<0.1	0.06	5.3	1.90	<0.1	<0.02
072835	Soil	16.4	20.5	0.48	35.6	0.002	<1	1.31	0.004	0.05	<0.1	1.2	0.02	<0.02	21	0.2	0.08	4.8	0.73	<0.1	0.03
072836	Soil	17.5	22.2	0.61	23.4	0.002	<1	1.74	0.007	0.03	<0.1	1.5	0.02	<0.02	24	0.1	0.06	5.2	0.64	<0.1	0.06



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**Project:** NA-16176  
**Report Date:** September 19, 2016

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
070087	Soil	0.12	2.2	0.2	<0.05	1.0	10.63	45.7	0.02	<1	0.6	46.0	<10	<2
070088	Soil	0.12	1.9	0.8	<0.05	1.7	7.96	44.9	<0.02	<1	0.4	48.4	<10	<2
070089	Soil	0.33	6.2	0.9	<0.05	1.5	7.60	36.8	0.02	<1	0.6	39.8	<10	<2
070090	Soil	0.21	3.7	2.3	<0.05	2.7	9.49	26.4	0.03	<1	1.0	64.5	<10	<2
070091	Soil	0.06	2.9	1.0	<0.05	2.2	2.12	51.4	<0.02	<1	0.6	87.7	<10	<2
070092	Soil	<0.02	2.0	2.3	<0.05	2.4	3.18	44.8	<0.02	<1	0.8	92.2	<10	<2
070093	Soil	0.15	2.9	0.6	<0.05	2.7	2.11	27.2	<0.02	<1	0.5	55.1	<10	<2
070094	Soil	0.13	3.6	7.1	<0.05	2.6	2.96	26.8	0.03	<1	0.5	61.9	<10	<2
070095	Soil	0.24	5.0	0.5	<0.05	2.4	1.41	24.5	<0.02	<1	0.2	43.3	<10	<2
070096	Soil	0.23	4.8	1.0	<0.05	1.8	1.63	28.9	<0.02	<1	0.2	49.4	<10	<2
070097	Soil	<0.02	2.1	0.6	<0.05	3.0	6.63	30.8	<0.02	<1	0.5	88.1	<10	<2
070098	Soil	0.02	2.4	3.5	<0.05	7.0	8.39	24.9	0.04	<1	1.2	60.5	<10	<2
070099	Soil	0.08	3.7	0.7	<0.05	5.2	3.10	18.2	<0.02	<1	0.5	59.1	<10	<2
070100	Soil	0.09	2.2	2.8	<0.05	4.3	5.46	21.2	0.03	<1	0.6	71.1	<10	<2
072821	Soil	0.52	11.2	1.3	<0.05	1.8	1.59	44.0	0.03	<1	0.5	28.5	<10	<2
072822	Soil	0.29	8.0	5.4	<0.05	0.2	0.90	31.0	<0.02	<1	0.1	3.9	<10	<2
072823	Soil	0.34	6.6	1.2	<0.05	0.3	0.95	23.3	<0.02	<1	0.2	8.5	<10	<2
072824	Soil	0.29	6.3	3.9	<0.05	2.8	1.48	36.4	<0.02	<1	0.3	27.0	<10	<2
072825	Soil	0.61	5.5	1.0	<0.05	1.3	1.97	42.5	0.02	<1	0.2	24.8	<10	<2
072826	Soil	0.60	5.9	5.7	<0.05	1.5	1.76	61.7	0.04	<1	0.4	9.3	<10	<2
072827	Soil	0.24	4.8	0.6	<0.05	0.2	1.11	29.1	<0.02	<1	0.2	13.8	<10	<2
072828	Soil	0.33	6.6	3.8	<0.05	0.6	1.46	47.4	0.03	<1	0.4	15.0	<10	<2
072829	Soil	0.46	9.1	0.5	<0.05	0.9	1.74	28.3	0.02	<1	0.3	11.1	<10	<2
072830	Soil	0.06	5.6	3.4	<0.05	2.3	2.64	39.5	0.03	<1	0.5	32.7	<10	<2
072831	Soil	0.45	4.6	0.7	<0.05	0.5	1.45	18.5	<0.02	<1	0.2	10.6	<10	<2
072832	Soil	0.51	6.1	4.6	<0.05	0.8	1.04	19.4	<0.02	<1	0.2	10.5	<10	<2
072833	Soil	0.26	7.5	0.4	<0.05	1.3	1.41	16.8	<0.02	<1	0.4	15.6	<10	<2
072834	Soil	0.35	7.3	3.0	<0.05	0.7	1.28	29.1	<0.02	<1	0.2	21.2	<10	<2
072835	Soil	0.13	5.3	0.6	<0.05	1.4	1.66	31.3	<0.02	<1	0.2	32.7	<10	<2
072836	Soil	0.13	2.8	2.7	<0.05	2.8	1.98	33.1	<0.02	<1	0.3	44.9	<10	<2



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# CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P		
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001		
072837	Soil	0.68	24.12	23.20	68.4	66	25.8	10.2	584	3.08	25.1	1.0	2.9	3.5	12.7	0.09	0.40	0.34	12	0.24	0.077	
072838	Soil	0.62	26.29	26.29	69.0	341	20.9	8.5	365	3.17	48.3	0.9	3.5	1.3	6.0	0.15	0.45	0.36	16	0.03	0.077	
072839	Soil	0.45	28.56	17.71	66.3	132	26.9	9.9	305	3.84	27.7	0.7	1.8	6.4	3.4	0.10	0.44	0.37	16	0.01	0.036	
072840	Soil	0.99	25.38	22.92	70.8	408	21.3	10.3	402	5.17	58.6	0.9	2.9	5.0	4.1	0.08	0.65	0.50	28	0.01	0.079	
072841	Soil	0.98	52.99	170.13	72.0	346	25.4	9.1	209	4.76	516.4	1.3	5.0	7.1	11.2	0.12	1.02	0.51	23	0.10	0.037	
072842	Soil	3.45	70.32	88.59	68.6	397	9.0	3.4	346	7.82	91.8	1.0	2.4	9.2	4.5	0.06	6.28	0.80	20	0.02	0.100	
072843	Soil	0.71	26.72	18.11	70.4	91	22.0	8.9	285	4.10	26.7	0.7	1.2	5.4	3.1	0.07	0.49	0.37	19	<0.01	0.044	
072844	Soil	0.74	19.07	34.17	57.3	156	20.2	10.1	366	2.88	11.9	1.2	1.2	1.0	6.0	0.09	0.41	0.24	22	0.03	0.070	
072845	Soil	0.42	19.07	39.95	63.7	222	14.3	61.8	1333	1.83	14.6	0.7	2.0	2.2	6.8	0.24	0.19	0.20	15	0.05	0.025	
072846	Soil	0.79	26.60	43.58	58.6	280	16.2	5.8	168	3.31	331.0	0.8	46.6	2.8	5.8	0.08	0.73	0.34	18	0.02	0.063	
072847	Soil	0.78	27.01	41.33	55.1	325	14.8	5.7	141	3.30	369.2	0.8	26.3	3.0	4.1	0.10	0.72	0.33	19	0.01	0.055	
072848	Soil	0.75	41.86	39.54	117.3	564	35.8	18.9	591	4.63	38.9	1.2	1.7	5.2	14.0	0.15	0.56	0.46	17	0.02	0.061	
072849	Soil	0.24	4.33	4.64	14.5	244	2.7	1.1	36	0.59	52.1	0.2	5.4	0.1	4.9	0.15	0.10	0.07	7	0.02	0.019	
072850	Soil	0.84	29.00	49.82	76.3	401	26.3	12.8	601	3.27	328.6	1.3	18.3	1.9	11.2	0.19	0.92	0.33	12	0.06	0.165	
070111	Soil	0.33	28.87	21.27	89.5	62	35.1	10.1	228	3.71	5.8	1.1	1.2	9.3	18.5	0.04	0.36	0.37	10	0.21	0.052	
070112	Soil	0.34	36.31	28.94	97.2	62	38.4	17.6	344	3.74	7.4	0.9	1.1	12.3	116.9	0.03	0.26	0.40	11	2.14	0.038	
070113	Soil	0.33	33.10	26.21	92.3	47	34.4	13.2	446	3.77	7.3	1.0	1.0	8.9	9.8	0.08	0.32	0.41	10	0.10	0.062	
070114	Soil	0.38	32.64	41.79	102.7	111	41.0	23.4	889	4.07	22.6	1.8	2.1	13.9	14.9	0.06	1.52	0.40	9	0.18	0.048	
070115	Soil	0.53	28.95	33.05	63.6	132	41.2	26.2	1296	4.04	20.8	2.2	2.5	12.0	17.6	0.08	1.28	0.36	9	0.19	0.049	
070116	Soil	0.52	47.92	35.10	87.7	164	42.6	24.2	295	4.04	9.0	3.1	1.1	11.2	150.2	0.08	0.54	0.43	7	3.97	0.063	
070117	Soil	0.89	51.30	31.13	109.1	107	52.2	25.8	315	4.14	5.0	1.4	1.5	16.0	60.6	0.03	0.25	0.41	11	1.92	0.029	
070118	Soil	0.68	71.93	49.53	126.7	182	56.5	40.4	404	4.76	17.2	2.5	2.0	18.2	37.7	0.06	0.50	0.53	12	0.61	0.067	
070119	Soil	0.67	76.61	55.87	126.3	220	64.1	43.9	546	6.41	14.2	3.1	2.2	17.0	28.7	0.09	0.81	0.86	8	0.28	0.049	
070120	Soil	0.57	32.99	30.35	88.4	169	33.3	19.0	321	3.50	10.5	4.5	0.6	7.8	541.5	0.08	0.80	0.25	5	18.29	0.088	
070051	Soil	0.87	39.00	35.00	79.0	163	33.0	15.8	506	3.50	11.1	1.8	2.4	10.4	34.4	0.16	0.70	0.34	7	0.73	0.071	
070052	Soil	0.63	53.55	38.27	94.2	200	47.2	27.4	540	4.29	38.5	2.0	14.8	14.9	26.2	0.08	1.06	0.47	11	0.29	0.059	
070053	Soil	0.44	43.08	30.58	90.4	204	43.4	21.0	453	4.07	20.7	1.9	9.2	13.4	33.2	0.07	1.44	0.37	9	0.57	0.061	
070054	Soil	0.47	53.01	40.97	104.1	161	45.7	24.2	513	4.40	18.8	2.2	2.9	15.8	31.3	0.11	0.92	0.43	10	0.66	0.079	
070055	Soil	0.53	57.13	40.10	112.5	168	48.2	29.0	541	4.59	19.5	2.2	3.1	14.2	34.5	0.14	0.78	0.54	11	0.85	0.080	
070056	Soil	0.45	35.78	24.59	94.5	195	32.3	12.8	279	3.35	13.3	2.3	1.4	2.1	85.4	0.21	0.59	0.35	10	1.49	0.115	



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**Project:** NA-16176  
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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
072837	Soil	11.3	22.2	0.48	33.1	0.001	2	1.23	0.006	0.07	<0.1	1.2	0.03	0.04	49	0.1	0.07	4.8	1.22	<0.1	0.06
072838	Soil	13.0	18.6	0.35	32.3	0.004	1	1.20	0.008	0.04	<0.1	0.7	0.03	0.04	46	0.2	0.07	5.7	1.22	<0.1	0.03
072839	Soil	22.1	23.3	0.50	28.1	0.002	<1	1.57	0.005	0.04	<0.1	1.3	0.03	<0.02	16	0.1	0.07	6.1	0.99	<0.1	0.03
072840	Soil	17.5	30.9	0.36	24.0	0.009	<1	1.73	0.004	0.03	0.2	1.5	0.06	<0.02	32	0.4	0.08	7.7	2.81	<0.1	<0.02
072841	Soil	17.0	26.2	0.53	45.0	0.010	1	1.72	0.006	0.03	0.1	2.0	0.08	0.03	23	0.4	0.08	6.5	3.20	<0.1	<0.02
072842	Soil	13.9	36.9	0.19	39.8	0.005	1	1.28	0.009	0.03	<0.1	1.2	0.07	0.03	36	1.4	0.44	6.5	5.17	<0.1	0.05
072843	Soil	21.0	22.9	0.36	30.8	0.003	1	1.43	0.005	0.03	<0.1	1.3	0.04	<0.02	19	0.4	0.07	6.6	2.43	<0.1	0.03
072844	Soil	13.0	10.5	0.06	36.7	0.013	<1	0.60	0.010	0.04	0.2	0.7	0.06	0.05	101	0.4	0.02	3.9	3.08	<0.1	<0.02
072845	Soil	9.4	9.1	0.14	42.8	0.010	1	1.18	0.016	0.03	0.1	1.0	0.07	<0.02	42	0.3	0.03	4.5	3.17	<0.1	<0.02
072846	Soil	14.1	13.9	0.14	37.4	0.006	1	0.86	0.006	0.04	0.2	1.0	0.06	0.04	47	0.4	0.05	4.4	1.85	<0.1	<0.02
072847	Soil	14.0	12.8	0.13	34.1	0.006	1	0.92	0.008	0.04	0.2	0.9	0.07	0.03	46	0.3	0.05	4.5	1.97	<0.1	<0.02
072848	Soil	18.1	21.6	0.33	39.7	0.003	1	1.33	0.005	0.04	<0.1	1.5	0.05	<0.02	32	0.5	0.06	5.1	3.91	<0.1	0.03
072849	Soil	4.4	3.1	0.02	20.7	0.006	<1	0.35	0.022	0.03	1.7	0.3	0.02	<0.02	14	0.2	<0.02	1.8	0.63	<0.1	<0.02
072850	Soil	10.5	14.6	0.18	37.4	0.003	1	0.89	0.006	0.05	0.2	0.6	0.06	0.07	36	0.5	0.05	3.4	3.93	<0.1	0.05
070111	Soil	21.7	22.8	0.67	47.9	0.001	<1	1.94	0.004	0.03	<0.1	3.0	0.04	<0.02	21	0.3	<0.02	5.1	0.54	<0.1	0.14
070112	Soil	21.6	24.7	0.79	39.5	0.004	2	1.91	0.006	0.11	<0.1	3.1	0.05	<0.02	22	0.3	0.03	5.2	0.51	<0.1	0.09
070113	Soil	20.5	22.2	0.68	35.1	0.002	1	1.77	0.003	0.04	<0.1	3.1	0.04	<0.02	26	0.3	<0.02	4.6	0.45	<0.1	0.12
070114	Soil	39.7	19.4	0.57	35.8	0.001	<1	1.74	0.004	0.05	<0.1	2.6	0.05	<0.02	19	0.1	0.04	4.4	1.18	<0.1	0.11
070115	Soil	28.6	18.0	0.56	49.0	0.001	<1	1.89	0.005	0.05	<0.1	2.9	0.06	<0.02	24	0.3	<0.02	4.4	1.60	<0.1	0.08
070116	Soil	5.6	18.5	0.60	17.3	<0.001	1	1.22	0.003	0.03	<0.1	2.3	0.03	0.25	26	0.8	0.09	3.2	0.64	<0.1	0.23
070117	Soil	4.0	30.4	0.86	19.4	0.002	<1	2.04	0.002	0.05	<0.1	2.7	0.03	0.04	15	0.2	0.04	5.4	0.65	<0.1	0.20
070118	Soil	6.4	26.8	0.82	32.9	0.002	1	1.96	0.004	0.05	<0.1	3.2	0.04	0.09	28	0.4	0.11	5.0	1.16	<0.1	0.21
070119	Soil	4.2	21.0	0.65	16.3	0.002	2	1.47	0.002	0.04	<0.1	4.0	0.03	0.15	46	0.6	0.18	3.8	0.44	<0.1	0.25
070120	Soil	6.2	9.1	0.41	25.5	0.001	2	0.74	0.004	0.04	<0.1	2.3	0.04	0.05	44	1.0	0.07	1.5	0.71	<0.1	0.14
070051	Soil	15.8	11.8	0.44	33.5	0.002	2	1.19	0.004	0.04	<0.1	4.3	0.03	0.05	61	0.5	0.04	2.3	0.39	<0.1	0.16
070052	Soil	12.0	24.2	0.74	25.7	0.002	1	1.74	0.003	0.04	<0.1	2.5	0.03	<0.02	16	0.3	0.06	4.4	0.58	<0.1	0.17
070053	Soil	10.6	22.3	0.69	25.5	<0.001	1	1.72	0.003	0.04	<0.1	2.4	0.03	0.03	22	0.4	0.05	4.0	0.52	<0.1	0.15
070054	Soil	22.6	18.2	0.62	27.7	0.001	1	1.44	0.004	0.04	<0.1	3.4	0.03	<0.02	39	0.5	0.05	3.5	0.53	<0.1	0.11
070055	Soil	21.3	21.7	0.70	29.6	0.002	<1	1.63	0.004	0.03	<0.1	3.4	0.03	<0.02	40	0.5	0.08	4.2	0.62	<0.1	0.13
070056	Soil	43.9	11.1	0.41	56.5	0.003	2	1.10	0.011	0.03	<0.1	3.3	0.04	0.06	72	0.7	0.06	2.1	0.37	<0.1	0.11



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
072837	Soil	0.16	4.6	1.1	<0.05	1.9	1.57	21.7	<0.02	<1	0.1	37.1	<10	<2
072838	Soil	0.28	5.2	8.0	<0.05	1.2	1.18	23.6	<0.02	<1	0.2	26.0	<10	<2
072839	Soil	0.18	4.5	0.6	<0.05	1.7	1.93	44.7	<0.02	<1	0.3	37.4	<10	<2
072840	Soil	0.87	7.4	3.9	<0.05	0.8	1.82	34.7	0.03	<1	0.2	36.8	<10	<2
072841	Soil	1.01	5.4	1.0	<0.05	1.0	2.36	34.0	0.05	<1	0.4	56.8	<10	<2
072842	Soil	0.37	5.9	2.4	<0.05	2.4	1.00	26.3	0.06	<1	0.3	16.1	<10	<2
072843	Soil	0.39	5.4	0.9	<0.05	1.1	1.77	43.3	<0.02	<1	0.3	28.9	<10	<2
072844	Soil	0.55	8.7	9.5	<0.05	0.4	2.22	26.7	0.02	<1	0.3	3.3	<10	<2
072845	Soil	0.67	7.2	0.5	<0.05	1.0	1.83	19.6	<0.02	<1	0.4	20.7	<10	<2
072846	Soil	0.60	8.9	8.1	<0.05	0.4	1.39	27.8	0.03	<1	0.2	12.2	<10	<2
072847	Soil	0.59	7.1	1.0	<0.05	0.4	1.41	27.3	0.02	<1	0.2	11.5	<10	<2
072848	Soil	0.29	8.7	7.8	<0.05	1.2	1.77	35.1	0.03	<1	0.5	28.3	<10	<2
072849	Soil	0.19	2.4	0.5	<0.05	0.2	0.48	8.5	<0.02	<1	<0.1	1.8	<10	<2
072850	Soil	0.20	8.1	5.9	<0.05	2.2	1.81	20.8	0.02	<1	0.3	11.9	<10	<2
070111	Soil	0.09	4.7	0.7	<0.05	5.5	11.22	42.1	0.02	<1	0.5	54.4	<10	<2
070112	Soil	0.24	5.1	3.5	<0.05	3.8	7.77	43.5	0.02	<1	0.4	64.0	<10	<2
070113	Soil	0.13	3.9	0.4	<0.05	3.9	9.08	44.3	0.03	<1	0.5	55.3	<10	<2
070114	Soil	0.07	4.5	4.9	<0.05	4.9	12.31	81.9	0.03	<1	0.6	33.2	<10	<2
070115	Soil	0.09	5.2	1.1	<0.05	3.8	16.50	62.8	0.05	<1	1.0	31.3	<10	<2
070116	Soil	0.02	1.8	7.5	<0.05	14.0	6.31	11.4	0.03	<1	0.4	46.3	<10	<2
070117	Soil	0.05	2.4	0.7	<0.05	11.9	5.57	7.9	0.02	<1	0.4	70.7	<10	<2
070118	Soil	0.11	2.8	7.2	<0.05	14.3	7.36	13.3	0.03	<1	0.6	66.8	<10	<2
070119	Soil	0.02	1.7	0.6	<0.05	15.3	8.05	8.5	0.03	<1	0.5	49.2	<10	<2
070120	Soil	0.09	2.0	7.0	<0.05	11.9	6.44	12.8	0.03	<1	0.3	19.1	<10	<2
070051	Soil	0.12	2.3	1.1	<0.05	6.9	15.22	33.0	0.03	<1	0.5	26.3	<10	<2
070052	Soil	0.03	2.0	6.3	<0.05	10.8	7.32	24.0	0.02	<1	0.5	61.8	<10	<2
070053	Soil	0.03	2.0	0.9	<0.05	7.2	7.80	20.4	0.02	<1	0.4	52.0	<10	<2
070054	Soil	0.04	1.9	2.8	<0.05	7.6	10.52	45.4	0.02	<1	0.5	43.2	<10	<2
070055	Soil	0.03	2.0	0.7	<0.05	8.3	10.19	39.6	0.03	<1	0.5	52.7	<10	<2
070056	Soil	0.20	3.0	2.2	<0.05	4.1	21.36	74.3	0.05	<1	0.6	21.8	<10	<2



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
070057	Soil	0.50	42.53	22.27	71.1	109	39.2	23.7	335	4.05	15.3	3.7	0.9	9.8	309.4	0.06	0.56	0.32	6	10.46	0.133
070058	Soil	0.61	47.26	35.61	98.5	144	49.3	32.8	524	4.20	18.2	2.7	1.0	12.9	103.3	0.05	0.78	0.48	8	3.58	0.083
070059	Soil	0.52	45.49	32.89	101.8	105	43.1	23.9	603	4.24	17.6	2.0	1.3	13.6	30.5	0.08	0.60	0.49	9	0.70	0.070
070060	Soil	0.45	42.58	40.27	94.5	124	38.4	22.8	474	4.11	263.5	1.5	31.3	11.5	9.9	0.04	0.86	0.45	9	0.14	0.041
070061	Soil	0.17	16.57	13.64	58.2	89	25.7	16.5	492	3.47	332.4	1.5	23.5	23.0	13.2	0.04	0.53	0.21	4	0.26	0.018
070062	Soil	0.22	18.65	48.29	117.1	229	26.2	16.0	565	3.37	763.3	1.6	74.0	19.3	14.6	0.37	0.80	0.25	5	0.23	0.026
070063	Soil	0.29	31.97	39.57	76.7	201	30.4	20.4	522	3.27	281.6	1.5	52.3	18.1	14.5	0.09	0.87	0.36	5	0.20	0.036
070064	Soil	0.57	66.19	49.92	121.2	82	56.2	32.2	1257	5.74	84.3	2.3	22.6	6.6	3.5	0.07	0.81	0.48	20	0.03	0.072
070065	Soil	0.67	45.36	22.97	97.3	77	48.0	25.3	945	4.69	53.4	1.4	11.8	6.7	4.5	0.04	0.54	0.44	17	0.02	0.066
070066	Soil	1.16	34.91	28.36	81.1	116	34.3	11.6	408	3.62	56.2	0.9	12.2	4.9	11.0	0.06	0.78	0.44	12	0.14	0.049
070067	Soil	1.78	28.43	16.14	81.3	133	37.1	11.0	287	3.51	55.0	0.9	11.4	7.9	8.6	0.05	0.86	0.37	12	0.09	0.037
070068	Soil	2.95	35.37	25.26	79.9	89	35.7	14.3	480	3.85	70.3	1.8	13.4	5.8	6.4	0.05	0.96	0.37	13	0.06	0.045
070069	Soil	0.68	57.34	52.81	89.2	84	35.8	24.2	772	3.83	21.0	2.0	2.1	7.3	9.2	0.08	0.71	0.46	16	0.06	0.072
070070	Soil	0.50	39.42	24.26	69.0	77	44.5	18.2	683	3.78	45.0	1.2	2.5	5.6	15.9	0.06	0.40	0.25	47	0.24	0.060
070021	Soil	0.41	44.58	41.28	75.8	152	40.2	21.7	649	3.94	12.2	1.0	1.0	15.9	21.8	0.05	0.73	0.52	8	0.38	0.048
070022	Soil	0.56	19.26	36.43	49.6	184	31.1	25.2	830	3.83	19.2	1.4	3.8	18.6	57.4	0.02	2.05	0.48	4	1.10	0.047
070023	Soil	0.42	72.37	80.45	91.9	119	39.7	23.5	867	3.83	11.3	0.7	0.7	23.0	18.1	0.07	0.89	0.57	9	0.30	0.022
070024	Soil	0.44	44.51	40.40	82.4	142	39.6	24.3	729	3.95	15.7	1.0	2.3	19.2	21.0	0.05	1.62	0.48	8	0.31	0.058
070025	Soil	0.46	42.37	36.27	82.7	104	39.2	22.3	655	3.85	13.7	1.0	1.9	17.9	18.7	0.05	1.34	0.48	8	0.26	0.056
070026	Soil	0.55	62.86	57.54	93.0	146	46.6	42.5	1285	4.19	12.1	1.5	1.5	17.2	17.6	0.09	0.75	0.54	12	0.24	0.055
070027	Soil	0.88	101.63	83.11	123.1	249	61.3	62.0	1678	5.69	14.8	2.3	2.2	16.0	24.7	0.11	0.63	0.96	16	0.25	0.063



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**Project:** NA-16176  
**Report Date:** September 19, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000237.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
		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
070057	Soil	20.6	8.6	0.46	22.4	0.001	1	0.73	0.003	0.03	<0.1	3.4	0.04	<0.02	68	0.7	0.06	1.5	0.69	<0.1	0.11	
070058	Soil	15.0	12.7	0.57	37.8	0.002	1	1.17	0.005	0.03	<0.1	3.7	0.04	0.06	48	0.6	0.08	2.7	0.61	<0.1	0.16	
070059	Soil	15.1	18.1	0.67	20.7	0.002	<1	1.39	0.002	0.02	<0.1	3.1	0.02	<0.02	27	0.4	0.07	3.4	0.46	<0.1	0.13	
070060	Soil	12.1	19.7	0.57	28.5	<0.001	<1	1.61	0.002	0.02	<0.1	2.1	0.03	0.02	20	0.3	0.04	3.7	0.91	<0.1	0.12	
070061	Soil	13.2	5.7	0.19	35.0	<0.001	<1	1.01	0.004	0.04	<0.1	2.8	<0.02	<0.02	14	<0.1	<0.02	1.5	2.01	<0.1	0.17	
070062	Soil	13.8	6.4	0.23	40.0	<0.001	<1	1.10	0.006	0.03	<0.1	2.5	0.04	<0.02	20	0.2	0.02	1.8	1.72	<0.1	0.08	
070063	Soil	14.6	10.1	0.30	28.6	<0.001	<1	1.04	0.004	0.03	<0.1	2.2	0.04	<0.02	15	0.2	0.03	2.1	1.07	<0.1	0.11	
070064	Soil	15.0	43.7	1.20	19.0	0.001	<1	2.84	0.005	0.03	<0.1	3.1	0.05	<0.02	17	0.3	0.06	8.6	3.39	<0.1	0.22	
070065	Soil	16.1	34.5	1.01	25.1	0.002	<1	2.38	0.004	0.03	<0.1	2.3	0.04	<0.02	15	0.4	0.09	7.1	1.31	<0.1	0.13	
070066	Soil	14.8	21.0	0.75	39.9	<0.001	<1	1.76	0.003	0.04	<0.1	1.9	0.04	<0.02	11	0.3	0.08	4.3	1.16	<0.1	0.09	
070067	Soil	21.6	22.8	0.82	30.0	<0.001	<1	1.73	0.002	0.03	<0.1	2.0	0.04	<0.02	11	0.2	0.07	4.4	0.92	<0.1	0.10	
070068	Soil	17.7	25.1	0.81	25.2	0.001	<1	1.86	0.003	0.03	<0.1	2.4	0.06	<0.02	10	0.3	0.06	4.8	1.32	<0.1	0.12	
070069	Soil	12.9	27.6	0.71	40.4	0.002	<1	2.22	0.006	0.04	<0.1	1.6	0.06	0.03	25	0.3	0.06	5.4	1.32	<0.1	0.16	
070070	Soil	11.8	73.0	1.39	54.0	0.003	<1	2.56	0.009	0.03	<0.1	5.9	0.04	0.03	21	0.4	0.03	6.3	1.64	<0.1	0.07	
070021	Soil	13.7	20.9	0.70	24.4	<0.001	<1	1.56	0.002	0.03	<0.1	3.2	0.03	0.02	30	0.4	0.05	4.0	0.34	<0.1	0.13	
070022	Soil	11.5	8.3	0.47	32.4	<0.001	<1	1.29	0.003	0.03	<0.1	3.2	0.04	0.03	33	0.3	0.03	2.5	0.66	<0.1	0.12	
070023	Soil	14.2	24.2	0.71	29.0	0.001	<1	1.79	0.002	0.04	<0.1	2.0	0.04	<0.02	18	0.1	0.06	4.7	0.68	<0.1	0.19	
070024	Soil	13.9	19.6	0.64	28.3	<0.001	<1	1.57	0.003	0.03	<0.1	2.7	0.03	<0.02	22	0.3	0.05	4.0	0.61	<0.1	0.14	
070025	Soil	15.3	20.9	0.66	25.8	0.001	<1	1.56	0.002	0.03	<0.1	2.6	0.03	<0.02	20	0.2	0.04	4.1	0.55	<0.1	0.18	
070026	Soil	13.9	26.9	0.80	40.0	0.001	<1	2.02	0.004	0.03	<0.1	2.5	0.04	<0.02	8	0.2	0.05	5.6	1.36	<0.1	0.20	
070027	Soil	15.1	34.1	1.02	23.4	0.002	<1	2.46	0.005	0.04	<0.1	3.7	0.05	<0.02	21	0.2	0.10	6.8	1.84	<0.1	0.21	



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**Project:** NA-16176  
**Report Date:** September 19, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000237.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
070057	Soil	0.04	2.0	0.3	<0.05	12.1	10.85	40.3	0.02	<1	0.5	26.0	<10	<2
070058	Soil	0.04	2.1	1.6	<0.05	16.4	11.94	31.0	0.04	<1	0.4	38.7	<10	<2
070059	Soil	<0.02	1.6	0.8	<0.05	9.7	9.01	30.7	0.03	<1	0.5	47.1	<10	<2
070060	Soil	<0.02	2.2	4.3	<0.05	4.5	5.12	25.4	0.03	<1	0.5	44.4	<10	<2
070061	Soil	<0.02	2.4	0.4	<0.05	9.2	5.90	28.7	<0.02	<1	0.3	7.7	<10	<2
070062	Soil	<0.02	2.8	2.5	<0.05	6.4	5.76	30.1	<0.02	<1	0.3	9.5	<10	<2
070063	Soil	0.02	2.0	0.5	<0.05	8.6	6.14	31.6	<0.02	<1	0.4	15.6	<10	<2
070064	Soil	0.07	3.2	1.3	<0.05	6.7	2.62	28.3	0.03	<1	0.5	88.6	<10	<2
070065	Soil	0.11	3.4	0.4	<0.05	4.4	2.56	31.4	0.02	<1	0.4	74.2	<10	<2
070066	Soil	0.11	4.7	4.9	<0.05	3.4	3.26	27.5	<0.02	<1	0.5	48.0	<10	<2
070067	Soil	0.05	3.8	0.6	<0.05	3.5	3.45	39.6	<0.02	<1	0.3	52.7	<10	<2
070068	Soil	0.05	3.6	4.5	<0.05	4.7	5.63	34.2	0.02	<1	0.5	55.4	<10	<2
070069	Soil	0.20	5.0	0.5	<0.05	5.7	5.90	24.3	<0.02	<1	0.7	63.2	<10	<2
070070	Soil	0.28	4.2	3.8	<0.05	3.1	6.93	26.4	0.03	<1	0.8	49.8	<10	<2
070021	Soil	0.06	1.8	1.0	<0.05	6.2	10.16	28.3	0.02	<1	0.5	50.0	<10	<2
070022	Soil	0.03	2.2	5.0	<0.05	6.7	15.19	26.3	0.05	<1	1.0	23.2	<10	<2
070023	Soil	<0.02	2.5	0.9	<0.05	11.9	6.23	29.1	<0.02	<1	0.6	55.3	<10	<2
070024	Soil	0.04	2.2	5.6	<0.05	11.1	9.43	29.1	0.02	<1	0.7	47.8	<10	<2
070025	Soil	<0.02	2.2	1.5	<0.05	10.9	9.57	31.4	0.02	<1	0.5	50.5	<10	<2
070026	Soil	<0.02	2.5	4.9	<0.05	13.0	7.49	26.8	0.02	<1	0.6	69.2	<10	<2
070027	Soil	0.04	3.2	0.4	<0.05	13.5	8.54	27.8	0.03	<1	0.5	79.6	<10	<2



# QUALITY CONTROL REPORT

WHI16000237.1

Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
072859	Soil	0.23	9.40	15.75	26.8	63	9.8	4.2	69	1.18	2.7	0.4	0.8	3.6	6.1	0.04	0.11	0.34	13	0.04	0.015
REP 072859	QC	0.25	9.93	16.70	29.2	65	10.3	4.3	71	1.19	3.1	0.5	0.3	4.0	6.6	0.05	0.11	0.35	14	0.05	0.017
070373	Soil	0.43	24.18	23.38	85.0	24	42.4	16.1	572	3.91	20.8	0.7	5.4	5.0	4.3	0.07	0.33	0.45	19	0.04	0.088
REP 070373	QC	0.42	24.83	23.07	84.5	20	42.6	16.9	570	3.93	20.9	0.7	8.5	4.7	4.4	0.06	0.33	0.46	19	0.04	0.085
070411	Soil	0.11	0.80	1.18	5.1	20	1.2	0.7	19	0.21	0.4	0.1	<0.2	<0.1	4.5	0.03	0.02	0.02	6	0.02	0.028
REP 070411	QC	0.14	0.78	1.33	5.6	26	1.0	0.7	19	0.24	0.7	0.1	<0.2	<0.1	5.0	0.05	0.02	<0.02	5	0.02	0.032
070448	Soil	0.97	43.73	36.59	99.3	40	38.7	19.7	1012	4.67	39.0	1.4	4.3	7.9	10.0	0.12	1.61	0.59	12	0.19	0.058
REP 070448	QC	0.89	46.32	40.94	109.2	50	43.8	21.4	1096	5.12	43.5	1.5	3.2	9.1	10.9	0.20	1.81	0.68	13	0.20	0.065
070484	Soil	0.46	43.77	21.45	91.3	123	26.9	11.5	450	2.52	10.0	0.9	2.3	3.9	101.8	0.46	0.72	0.31	9	2.16	0.097
REP 070484	QC	0.46	43.18	21.23	93.5	119	26.8	11.7	449	2.57	10.3	0.9	0.5	3.7	98.1	0.41	0.74	0.31	10	2.11	0.092
070320	Soil	0.66	51.86	37.94	103.9	86	46.8	29.9	1098	4.84	46.6	1.3	2.8	9.0	7.7	0.10	0.70	0.49	17	0.04	0.056
REP 070320	QC	0.71	50.09	35.89	101.4	87	43.8	29.3	1075	4.78	42.9	1.3	2.5	8.5	7.4	0.11	0.66	0.49	17	0.04	0.056
070086	Soil	0.21	29.02	8.59	54.0	22	30.1	9.2	187	2.53	4.1	0.3	1.0	7.1	8.2	0.08	0.26	0.24	17	0.21	0.079
REP 070086	QC	0.20	28.99	8.53	50.5	21	30.1	9.0	183	2.46	4.0	0.3	4.8	6.8	8.0	0.07	0.26	0.23	16	0.21	0.078
072842	Soil	3.45	70.32	88.59	68.6	397	9.0	3.4	346	7.82	91.8	1.0	2.4	9.2	4.5	0.06	6.28	0.80	20	0.02	0.100
REP 072842	QC	3.63	73.43	91.33	72.9	410	9.7	3.5	346	7.80	94.7	1.0	2.6	9.9	4.8	0.07	6.56	0.85	20	0.02	0.099
070118	Soil	0.68	71.93	49.53	126.7	182	56.5	40.4	404	4.76	17.2	2.5	2.0	18.2	37.7	0.06	0.50	0.53	12	0.61	0.067
REP 070118	QC	0.67	70.21	49.02	120.7	178	55.4	38.2	411	4.81	16.9	2.5	2.2	17.9	36.8	0.08	0.51	0.50	12	0.59	0.067
Reference Materials																					
STD DS10	Standard	15.02	141.87	150.25	363.8	1906	74.4	12.7	892	2.74	43.9	2.6	90.7	7.2	66.4	2.45	9.11	11.65	42	1.07	0.077
STD DS10	Standard	14.86	148.34	149.78	360.3	1961	76.8	13.0	875	2.73	43.0	2.6	83.0	7.2	62.9	2.37	9.38	11.51	43	1.06	0.071
STD DS10	Standard	15.04	156.52	154.54	372.4	1836	78.7	12.9	902	2.77	46.4	3.0	76.6	7.7	69.4	2.63	9.60	13.27	42	1.09	0.076
STD DS10	Standard	14.77	147.00	146.18	360.3	1946	71.1	12.3	912	2.79	45.5	2.7	76.9	7.6	69.4	2.57	9.90	13.17	42	1.09	0.076
STD DS10	Standard	14.64	145.62	145.42	357.4	1815	76.6	13.2	890	2.74	41.7	2.4	87.9	6.8	65.1	2.35	8.99	11.30	42	1.07	0.075
STD DS10	Standard	15.28	157.05	157.15	373.6	1803	79.7	13.8	924	2.84	46.3	2.7	74.7	7.6	64.8	2.68	9.46	12.29	42	1.09	0.082
STD DS10	Standard	15.19	151.69	151.27	370.8	1974	76.5	13.0	899	2.80	43.6	2.5	73.6	7.1	66.2	2.54	8.91	11.66	41	1.09	0.076
STD DS10	Standard	15.01	146.16	150.79	351.0	1958	78.2	13.3	903	2.78	44.1	2.5	79.4	7.3	64.0	2.36	8.60	11.42	42	1.06	0.074
STD DS10	Standard	15.50	151.11	153.98	390.2	1939	77.5	13.1	909	2.86	46.8	2.6	77.4	7.3	69.8	2.58	9.06	12.12	43	1.08	0.080



# QUALITY CONTROL REPORT

WHI16000237.1

Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
072859	Soil	24.8	11.4	0.23	24.3	0.008	<1	0.79	0.004	0.03	0.1	0.8	0.05	<0.02	13	<0.1	0.03	3.8	1.74	<0.1	<0.02
REP 072859	QC	27.1	12.4	0.25	27.1	0.008	<1	0.80	0.004	0.03	0.1	0.9	0.06	<0.02	11	<0.1	0.03	4.3	1.95	<0.1	<0.02
070373	Soil	18.5	45.6	1.00	26.7	0.003	<1	2.18	0.003	0.02	<0.1	1.3	0.03	0.03	14	0.1	0.07	6.2	1.42	<0.1	0.06
REP 070373	QC	19.3	44.0	1.02	27.6	0.003	<1	2.19	0.003	0.03	<0.1	1.3	0.02	0.03	14	0.2	0.08	6.1	1.42	<0.1	0.06
070411	Soil	1.2	2.2	0.02	7.4	0.008	<1	0.09	0.026	0.02	<0.1	0.2	<0.02	<0.02	16	0.3	<0.02	0.6	0.16	<0.1	<0.02
REP 070411	QC	1.4	2.7	0.02	8.4	0.009	<1	0.10	0.029	0.02	<0.1	0.2	<0.02	<0.02	18	0.2	<0.02	0.7	0.17	<0.1	<0.02
070448	Soil	15.3	24.1	0.70	28.5	0.001	<1	1.89	0.003	0.03	<0.1	3.3	0.04	0.02	45	0.1	0.06	5.2	1.45	<0.1	0.06
REP 070448	QC	18.6	26.8	0.74	31.8	0.002	<1	1.97	0.004	0.03	<0.1	3.9	0.04	0.02	68	<0.1	0.10	5.9	1.73	0.2	0.07
070484	Soil	8.8	17.2	0.56	31.0	0.002	4	1.22	0.004	0.03	<0.1	1.5	0.03	0.14	24	0.3	0.06	3.5	0.30	<0.1	0.08
REP 070484	QC	9.5	17.6	0.57	34.1	0.002	5	1.23	0.004	0.03	<0.1	2.0	0.02	0.14	28	0.3	0.05	2.9	0.29	<0.1	0.14
070320	Soil	24.8	34.7	1.06	26.2	0.004	1	2.40	0.005	0.03	<0.1	2.3	0.02	<0.02	21	<0.1	0.11	6.5	2.20	<0.1	0.11
REP 070320	QC	24.8	33.4	1.05	25.7	0.004	<1	2.38	0.005	0.03	<0.1	2.0	<0.02	<0.02	17	0.2	0.10	6.1	2.15	<0.1	0.08
070086	Soil	24.7	22.1	0.83	58.4	0.004	<1	1.23	0.003	0.02	<0.1	4.5	<0.02	0.02	10	0.2	0.03	3.3	0.41	<0.1	0.03
REP 070086	QC	23.1	21.4	0.80	56.7	0.004	<1	1.20	0.003	0.02	<0.1	4.3	<0.02	0.02	12	0.2	0.04	3.2	0.40	<0.1	0.04
072842	Soil	13.9	36.9	0.19	39.8	0.005	1	1.28	0.009	0.03	<0.1	1.2	0.07	0.03	36	1.4	0.44	6.5	5.17	<0.1	0.05
REP 072842	QC	15.4	38.6	0.20	41.0	0.005	1	1.27	0.010	0.04	<0.1	1.3	0.07	0.03	36	1.6	0.44	6.7	5.51	<0.1	0.06
070118	Soil	6.4	26.8	0.82	32.9	0.002	1	1.96	0.004	0.05	<0.1	3.2	0.04	0.09	28	0.4	0.11	5.0	1.16	<0.1	0.21
REP 070118	QC	6.9	27.0	0.83	30.1	0.001	1	1.96	0.004	0.05	<0.1	3.0	0.04	0.09	24	0.3	0.10	4.8	1.16	<0.1	0.20
Reference Materials																					
STD DS10	Standard	16.6	56.4	0.77	363.2	0.072	7	1.06	0.072	0.34	3.2	2.9	5.32	0.27	275	2.4	5.08	4.5	2.60	<0.1	0.05
STD DS10	Standard	16.3	56.1	0.76	368.5	0.074	7	1.03	0.068	0.32	3.3	2.9	5.18	0.30	304	2.3	4.97	4.3	2.66	<0.1	0.05
STD DS10	Standard	18.0	56.4	0.77	365.6	0.080	8	1.07	0.070	0.34	3.5	2.9	5.14	0.27	273	2.3	5.01	4.6	2.60	<0.1	0.06
STD DS10	Standard	17.1	53.2	0.79	356.5	0.076	8	1.08	0.072	0.34	3.2	3.0	5.23	0.28	292	2.4	4.95	4.7	2.59	0.2	0.06
STD DS10	Standard	16.6	58.5	0.77	348.2	0.075	7	1.08	0.072	0.34	3.4	3.0	5.05	0.27	287	2.6	4.96	4.3	2.61	<0.1	0.06
STD DS10	Standard	17.7	57.2	0.81	347.6	0.076	8	1.07	0.073	0.35	3.5	3.1	5.45	0.28	296	2.5	5.02	4.1	2.68	<0.1	0.05
STD DS10	Standard	16.4	58.8	0.79	346.1	0.075	7	1.06	0.073	0.34	3.4	3.0	5.27	0.28	289	2.6	5.17	4.5	2.63	<0.1	0.06
STD DS10	Standard	16.5	58.6	0.78	346.7	0.072	7	1.08	0.072	0.34	3.2	3.1	5.26	0.27	276	2.4	4.94	4.4	2.50	<0.1	0.06
STD DS10	Standard	16.4	57.3	0.79	358.8	0.074	10	1.07	0.077	0.35	3.5	3.4	5.45	0.28	312	2.5	5.23	4.7	2.68	0.1	0.06



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Project: NA-16176  
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# QUALITY CONTROL REPORT

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates														
072859	Soil	0.66	4.0	0.4	<0.05	0.2	1.53	44.7	<0.02	<1	0.2	19.5	<10	<2
REP 072859	QC	0.70	4.5	0.5	<0.05	0.2	1.72	49.1	<0.02	<1	0.1	21.7	<10	<2
070373	Soil	0.18	4.5	0.6	<0.05	2.1	2.08	36.8	<0.02	<1	0.4	60.7	<10	<2
REP 070373	QC	0.18	4.5	0.6	<0.05	1.7	2.09	38.2	<0.02	<1	0.4	62.6	<10	<2
070411	Soil	0.07	1.1	0.2	<0.05	0.2	0.15	2.4	<0.02	<1	<0.1	0.3	<10	<2
REP 070411	QC	0.09	1.2	0.2	<0.05	0.1	0.17	2.7	<0.02	<1	<0.1	0.6	<10	<2
070448	Soil	0.08	5.5	0.2	<0.05	2.5	6.97	32.7	0.05	<1	0.4	62.3	<10	<2
REP 070448	QC	0.08	6.6	0.2	<0.05	3.4	7.60	39.5	0.03	2	0.8	68.8	<10	<2
070484	Soil	0.09	2.9	0.2	<0.05	2.9	6.08	15.8	<0.02	<1	0.2	32.9	<10	<2
REP 070484	QC	0.10	2.8	0.2	<0.05	3.3	6.16	16.2	<0.02	<1	0.4	35.0	<10	<2
070320	Soil	0.11	3.9	0.1	<0.05	2.6	2.77	46.7	0.03	<1	0.4	84.3	<10	<2
REP 070320	QC	0.12	3.8	0.2	<0.05	3.4	2.65	46.6	0.03	<1	0.6	78.2	<10	<2
070086	Soil	0.15	3.2	0.3	<0.05	1.2	8.56	51.5	<0.02	<1	0.4	42.2	<10	<2
REP 070086	QC	0.14	3.0	0.3	<0.05	1.3	8.31	48.1	<0.02	<1	0.5	41.8	<10	<2
072842	Soil	0.37	5.9	2.4	<0.05	2.4	1.00	26.3	0.06	<1	0.3	16.1	<10	<2
REP 072842	QC	0.38	6.2	2.7	<0.05	2.2	1.08	29.4	0.08	<1	0.4	15.9	<10	<2
070118	Soil	0.11	2.8	7.2	<0.05	14.3	7.36	13.3	0.03	<1	0.6	66.8	<10	<2
REP 070118	QC	0.05	2.8	7.9	<0.05	14.2	7.33	13.8	0.03	<1	0.7	64.2	<10	<2
Reference Materials														
STD DS10	Standard	1.47	27.4	1.4	<0.05	2.3	7.64	35.1	0.19	45	0.7	18.9	118	185
STD DS10	Standard	1.49	26.5	1.6	<0.05	2.7	7.51	33.4	0.23	45	0.6	19.0	112	195
STD DS10	Standard	1.55	28.0	1.6	<0.05	2.8	7.86	36.1	0.21	55	0.3	20.1	116	196
STD DS10	Standard	1.50	28.5	1.5	<0.05	2.5	8.00	35.7	0.22	45	0.7	19.0	118	180
STD DS10	Standard	1.67	26.8	1.5	<0.05	2.1	7.68	33.6	0.23	45	0.7	20.1	109	187
STD DS10	Standard	1.45	29.2	1.5	<0.05	2.4	8.02	35.5	0.22	51	0.5	20.7	117	188
STD DS10	Standard	1.58	27.0	1.5	<0.05	2.3	7.72	33.5	0.24	49	0.7	19.6	114	190
STD DS10	Standard	1.56	27.2	1.5	<0.05	2.5	7.62	34.2	0.20	48	0.7	19.9	113	193
STD DS10	Standard	1.75	29.3	1.6	<0.05	2.6	8.13	34.8	0.23	56	0.7	21.0	121	202



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		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
STD OXC129	Standard	1.26	24.84	5.87	40.1	11	74.7	19.6	399	2.93	0.2	0.6	222.1	1.7	177.0	<0.01	0.04	<0.02	48	0.62	0.103
STD OXC129	Standard	1.26	25.26	5.75	41.2	13	78.0	20.2	385	2.93	0.6	0.6	186.9	1.7	173.7	0.02	0.03	<0.02	51	0.66	0.095
STD OXC129	Standard	1.31	27.92	6.55	42.8	17	83.2	20.4	475	3.04	1.2	0.7	206.4	2.0	193.4	0.02	0.04	<0.02	49	0.66	0.105
STD OXC129	Standard	1.18	25.90	6.22	42.8	18	75.5	20.1	464	3.03	<0.1	0.7	202.0	1.8	194.9	0.03	0.04	<0.02	50	0.66	0.103
STD OXC129	Standard	1.30	26.48	5.97	43.2	13	80.9	20.4	424	3.00	0.7	0.6	199.4	1.7	183.4	0.02	0.03	<0.02	50	0.68	0.106
STD OXC129	Standard	1.33	27.06	6.40	40.6	13	80.9	21.1	425	3.01	0.9	0.7	190.4	1.8	180.4	0.03	0.03	<0.02	49	0.64	0.106
STD OXC129	Standard	1.38	28.28	6.19	44.6	12	86.6	21.6	445	3.14	0.5	0.6	211.5	1.8	186.5	0.01	0.03	<0.02	52	0.68	0.106
STD OXC129	Standard	1.35	26.76	6.22	42.3	12	84.1	21.8	426	3.16	0.5	0.7	208.9	1.8	191.3	0.02	0.03	<0.02	51	0.67	0.105
STD OXC129	Standard	1.33	26.81	6.10	42.2	12	85.5	21.9	436	3.19	0.8	0.6	207.4	1.7	191.5	<0.01	0.03	<0.02	52	0.67	0.104
STD DS10 Expected		15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	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	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665	0.102
BLK	Blank	<0.01	0.03	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.03	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.05	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.02	<0.01	<0.1	<2	0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



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Project: NA-16176

Report Date: September 19, 2016

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# QUALITY CONTROL REPORT

# WHI16000237.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
STD OXC129	Standard	11.6	49.2	1.46	46.8	0.370	1	1.52	0.582	0.38	<0.1	1.0	0.03	<0.02	<5	<0.1	<0.02	5.4	0.16	<0.1	0.29
STD OXC129	Standard	11.3	51.3	1.43	45.0	0.391	1	1.52	0.579	0.37	<0.1	1.1	0.03	<0.02	<5	<0.1	<0.02	5.4	0.15	<0.1	0.27
STD OXC129	Standard	13.1	53.4	1.53	50.0	0.406	<1	1.58	0.600	0.39	0.1	1.5	0.04	<0.02	9	0.1	<0.02	6.1	0.17	0.1	0.30
STD OXC129	Standard	12.3	49.3	1.56	49.1	0.383	<1	1.58	0.616	0.38	<0.1	1.0	0.04	<0.02	<5	<0.1	<0.02	5.5	0.16	<0.1	0.27
STD OXC129	Standard	11.5	53.1	1.52	46.5	0.400	<1	1.60	0.605	0.37	<0.1	1.0	0.03	<0.02	<5	<0.1	<0.02	5.6	0.16	<0.1	0.24
STD OXC129	Standard	12.6	52.9	1.51	48.9	0.407	1	1.60	0.614	0.39	<0.1	1.1	0.04	<0.02	<5	<0.1	<0.02	5.3	0.16	<0.1	0.29
STD OXC129	Standard	12.2	57.0	1.60	48.8	0.423	<1	1.69	0.632	0.40	<0.1	1.1	0.03	<0.02	<5	0.2	<0.02	6.0	0.16	<0.1	0.29
STD OXC129	Standard	12.0	55.4	1.55	48.4	0.416	1	1.58	0.602	0.37	<0.1	1.1	0.04	<0.02	<5	0.2	<0.02	5.7	0.16	<0.1	0.27
STD OXC129	Standard	12.0	54.6	1.55	48.0	0.424	1	1.60	0.607	0.38	<0.1	1.2	0.04	<0.02	<5	0.2	<0.02	5.7	0.16	<0.1	0.27
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0259	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	2.63	0.08	0.06
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6	0.16		0.24
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



# QUALITY CONTROL REPORT

WHI16000237.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
STD OXC129	Standard	1.59	15.1	0.7	<0.05	20.6	4.34	21.1	<0.02	<1	0.8	2.2	<10	<2
STD OXC129	Standard	1.24	14.6	0.7	<0.05	19.1	4.22	20.7	<0.02	<1	0.9	2.1	<10	<2
STD OXC129	Standard	1.58	16.7	0.7	<0.05	23.3	4.47	23.8	<0.02	<1	0.7	2.4	<10	<2
STD OXC129	Standard	1.23	15.6	0.8	<0.05	22.8	4.75	23.0	<0.02	<1	0.8	1.8	<10	<2
STD OXC129	Standard	1.50	15.0	0.7	<0.05	18.8	4.54	21.3	<0.02	<1	0.9	2.0	<10	<2
STD OXC129	Standard	1.35	16.3	0.7	<0.05	21.2	4.67	23.1	<0.02	<1	0.7	2.1	<10	<2
STD OXC129	Standard	1.44	15.7	0.7	<0.05	21.7	4.60	22.6	<0.02	<1	1.0	2.2	11	<2
STD OXC129	Standard	1.38	16.4	0.8	<0.05	21.8	4.85	23.0	<0.02	<1	1.0	2.3	<10	<2
STD OXC129	Standard	1.33	16.5	0.7	<0.05	21.5	4.67	22.8	<0.02	<1	0.8	2.3	<10	<2
STD DS10 Expected		1.62	27.7	1.6		2.7	7.77	37	0.23	50	0.63	19.4	110	191
STD OXC129 Expected		1.4		0.7		21	4.7	23.7			0.8	2.22		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

**Client:** **Golden Predator Mining Corp.**  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

Submitted By: M. Burke  
Receiving Lab: Canada-Whitehorse  
Received: August 31, 2016  
Report Date: September 20, 2016  
Page: 1 of 9

# CERTIFICATE OF ANALYSIS

WHI16000238.1

## CLIENT JOB INFORMATION

Project: NA-16176  
Shipment ID:  
P.O. Number  
Number of Samples: 239

## 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: Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6  
Canada

CC: M. Burke

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	237	Dry at 60C			WHI
SS80	237	Dry at 60C sieve 100g to -80 mesh			WHI
AQ251_EXT	237	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
SHP01	237	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.



Bureau Veritas Commodities Canada Ltd.

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**Client:** Golden Predator Mining Corp.  
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Vancouver British Columbia V6C 3B6 Canada

**Project:** NA-16176  
**Report Date:** September 20, 2016

**Page:** 2 of 9

**Part:** 1 of 3

# CERTIFICATE OF ANALYSIS

# WHI16000238.1

Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
070028	Soil	0.60	79.65	62.23	107.8	165	47.7	37.2	1001	5.03	12.2	2.0	6.2	15.3	23.1	0.13	0.68	0.86	18	0.27	0.057
070029	Soil	0.54	70.92	59.09	106.5	161	47.5	36.3	763	4.78	11.5	1.9	3.6	14.1	36.9	0.06	0.62	0.73	16	0.79	0.064
070030	Soil	0.52	45.90	53.85	90.0	73	32.9	25.0	782	3.77	19.5	2.3	3.0	12.8	12.2	0.07	0.61	0.55	16	0.07	0.043
069421	Soil	0.78	54.75	42.98	86.6	125	37.7	21.7	666	3.97	25.3	6.5	4.4	8.9	14.8	0.06	0.56	0.50	14	0.33	0.076
069422	Soil	1.22	40.57	28.11	143.4	126	42.4	15.4	988	4.08	45.4	4.0	5.0	7.9	17.3	0.16	0.63	0.58	15	0.47	0.074
069423	Soil	0.85	57.93	47.26	110.4	137	46.5	23.5	1017	4.28	53.3	4.3	7.9	7.2	10.4	0.04	0.56	0.54	17	0.15	0.061
069424	Soil	0.68	28.46	26.96	74.3	56	29.9	13.0	671	4.10	29.7	1.0	7.1	5.6	4.1	0.09	0.56	0.52	17	0.03	0.095
069425	Soil	0.81	55.25	34.56	90.5	50	42.3	20.7	855	4.62	40.2	1.4	3.9	9.8	5.8	0.04	0.81	0.70	17	0.08	0.065
069426	Soil	0.54	48.53	48.32	101.5	134	39.6	21.9	650	3.91	19.5	1.5	4.2	20.2	38.5	0.05	2.24	0.52	9	0.67	0.058
069427	Soil	0.33	47.40	47.52	106.3	114	42.0	23.4	601	4.17	13.1	1.9	5.5	18.8	42.1	0.08	2.02	0.54	10	0.65	0.058
069428	Soil	0.28	47.13	42.83	110.5	96	42.0	23.5	606	4.13	13.2	1.9	8.7	19.0	40.1	0.06	1.82	0.49	10	0.59	0.058
069429	Soil	0.58	34.73	87.54	91.9	562	33.9	18.6	778	3.49	10.6	1.6	2.4	14.9	45.0	0.15	0.85	0.48	10	0.84	0.062
069430	Soil	0.59	73.35	57.85	103.1	93	44.1	33.3	957	4.02	16.4	1.2	3.1	20.7	18.4	0.06	0.72	0.73	15	0.20	0.035
070231	Soil	0.38	41.71	41.27	102.0	124	43.3	17.4	458	3.95	12.6	1.6	1.7	13.4	26.9	0.07	0.63	0.50	14	0.41	0.056
070232	Soil	0.33	46.94	21.53	59.9	59	33.6	14.7	724	3.34	9.0	0.5	1.7	3.5	6.1	0.01	0.29	0.41	16	0.09	0.046
070233	Soil	0.40	27.00	28.12	57.5	75	22.2	15.8	882	2.41	10.5	1.3	2.1	5.5	5.8	0.05	0.40	0.22	17	0.05	0.069
070234	Soil	0.27	14.61	12.43	24.3	31	8.2	2.8	156	1.35	15.7	0.5	3.1	0.7	11.5	0.07	0.24	0.15	9	0.04	0.040
070235	Soil	0.58	15.15	19.82	45.1	65	10.9	5.2	184	3.41	34.5	0.6	3.4	1.3	3.9	0.04	0.52	0.36	27	<0.01	0.078
070236	Soil	0.89	14.61	16.29	44.5	30	13.7	4.8	215	3.79	22.5	0.7	3.2	3.4	4.6	0.10	0.73	0.40	40	0.01	0.046
070237	Soil	0.49	55.16	44.11	87.7	82	35.6	28.3	851	3.48	22.6	1.5	3.8	10.6	8.2	0.06	0.43	0.44	15	0.05	0.049
070238	Soil	0.55	54.88	61.45	101.9	50	39.6	31.2	998	4.05	11.2	1.8	2.8	12.4	11.3	0.11	0.53	0.48	19	0.08	0.057
070239	Soil	0.59	55.42	33.39	78.3	101	34.8	22.0	651	3.35	9.1	2.4	3.6	9.8	10.9	0.04	0.43	0.37	17	0.06	0.078
070240	Soil	0.30	32.37	22.36	54.3	60	31.9	20.0	599	2.84	70.7	1.8	5.8	15.6	18.4	0.10	0.75	0.30	11	0.17	0.055
070241	Soil	0.12	46.33	25.34	75.4	50	42.2	25.2	386	3.51	10.0	1.0	4.5	16.1	11.6	<0.01	0.68	0.29	12	0.14	0.029
070242	Soil	0.50	58.95	45.97	102.2	137	45.7	28.9	1037	4.34	16.8	2.3	3.4	16.2	12.4	0.16	1.01	0.50	13	0.11	0.067
070243	Soil	0.62	61.50	40.76	98.6	90	50.7	41.4	1056	4.21	36.5	1.9	5.7	16.6	19.2	0.07	0.79	0.47	20	0.22	0.050
070244	Soil	0.68	55.51	40.57	97.6	168	60.5	35.0	1232	4.46	189.4	1.8	26.1	12.2	21.5	0.13	1.39	0.45	33	0.25	0.056
070245	Soil	0.62	66.25	44.38	110.2	203	53.7	32.8	1081	4.41	164.6	2.7	29.4	15.3	24.2	0.13	1.17	0.53	22	0.29	0.054
070246	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
070247	Soil	0.42	72.89	22.40	56.9	109	27.5	13.9	569	2.76	24.2	0.5	15.1	4.8	9.8	1.22	2.00	0.30	14	0.39	0.081



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**Project:** NA-16176  
**Report Date:** September 20, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000238.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
070028	Soil	25.7	33.7	0.92	30.5	0.003	3	2.26	0.005	0.04	<0.1	3.3	0.04	<0.02	31	0.3	0.08	6.5	1.54	<0.1	0.13
070029	Soil	15.2	29.6	0.88	22.6	0.004	<1	2.05	0.004	0.04	<0.1	2.7	0.03	0.05	19	0.2	0.09	6.3	1.25	<0.1	0.13
070030	Soil	24.5	25.3	0.74	32.4	0.002	<1	1.94	0.005	0.04	<0.1	1.6	0.04	<0.02	14	0.3	0.09	5.1	0.96	<0.1	0.07
069421	Soil	8.3	33.2	0.82	22.5	0.001	<1	2.03	0.006	0.05	<0.1	2.0	0.04	0.04	37	0.4	0.07	5.5	3.24	<0.1	0.16
069422	Soil	16.6	32.8	0.86	36.2	0.001	<1	2.10	0.007	0.06	<0.1	3.0	0.04	0.05	32	0.6	0.09	5.8	2.26	<0.1	0.15
069423	Soil	13.9	36.7	1.04	29.7	0.002	<1	2.42	0.006	0.03	<0.1	2.6	0.04	0.02	12	0.4	0.10	6.9	2.43	<0.1	0.10
069424	Soil	18.0	29.7	0.77	36.0	0.003	2	2.08	0.004	0.04	<0.1	1.3	0.04	0.05	30	0.4	0.08	6.5	0.92	<0.1	0.12
069425	Soil	25.4	32.5	1.11	38.3	0.002	<1	2.36	0.003	0.04	<0.1	1.9	0.03	<0.02	9	0.2	0.11	6.5	1.08	<0.1	0.08
069426	Soil	22.8	19.7	0.68	28.6	<0.001	<1	1.66	0.002	0.06	<0.1	2.6	0.03	0.05	15	<0.1	<0.02	3.6	0.70	<0.1	0.13
069427	Soil	12.9	22.6	0.73	25.2	0.002	<1	1.65	0.002	0.04	<0.1	2.6	0.03	0.06	25	<0.1	<0.02	4.3	0.66	<0.1	0.11
069428	Soil	13.0	22.9	0.73	25.8	0.001	2	1.66	0.002	0.04	<0.1	2.3	0.04	0.06	28	<0.1	<0.02	4.4	0.65	0.1	0.09
069429	Soil	19.0	21.5	0.62	23.4	0.002	1	1.37	0.002	0.06	<0.1	2.4	0.02	0.03	32	0.3	0.02	4.1	0.34	<0.1	0.11
069430	Soil	15.0	30.0	0.87	24.7	0.001	<1	1.93	0.004	0.03	<0.1	1.9	0.03	<0.02	9	<0.1	0.06	5.6	0.73	<0.1	0.13
070231	Soil	17.9	29.6	0.81	29.4	0.002	<1	1.86	0.002	0.04	<0.1	2.4	0.03	0.03	17	0.2	0.07	4.4	0.57	<0.1	0.14
070232	Soil	14.7	24.0	0.84	30.0	0.004	<1	1.90	0.016	0.03	<0.1	1.4	0.02	0.02	20	0.3	0.10	5.7	1.69	<0.1	0.06
070233	Soil	18.7	18.2	0.47	26.1	0.009	<1	1.38	0.007	0.04	<0.1	1.3	0.04	0.04	61	0.3	0.05	4.0	0.99	0.1	<0.02
070234	Soil	6.4	8.4	0.18	21.2	0.007	1	0.94	0.019	0.02	<0.1	0.4	0.02	0.03	14	0.6	<0.02	3.1	0.64	<0.1	0.03
070235	Soil	23.8	16.1	0.19	35.1	0.006	1	0.92	0.003	0.03	0.1	0.6	0.06	0.04	37	0.4	<0.02	6.7	0.86	<0.1	<0.02
070236	Soil	26.5	19.3	0.24	23.3	0.017	<1	1.13	0.002	0.04	0.1	1.1	0.07	0.02	22	0.2	<0.02	8.9	1.24	<0.1	<0.02
070237	Soil	23.9	25.3	0.72	26.6	0.003	<1	2.00	0.009	0.03	<0.1	1.4	0.04	<0.02	27	0.2	0.09	5.2	1.16	<0.1	0.09
070238	Soil	27.6	30.3	0.85	36.5	0.004	<1	2.10	0.005	0.04	<0.1	1.7	0.05	<0.02	<5	<0.1	<0.02	5.7	1.07	<0.1	<0.02
070239	Soil	14.7	23.6	0.65	33.1	0.006	<1	1.89	0.013	0.04	<0.1	1.6	0.05	0.03	32	0.2	0.04	5.3	1.27	<0.1	0.07
070240	Soil	18.8	17.6	0.55	28.9	0.003	<1	1.43	0.003	0.03	<0.1	1.6	0.02	<0.02	<5	<0.1	<0.02	3.2	0.84	<0.1	<0.02
070241	Soil	15.6	28.0	0.83	31.7	<0.001	1	2.05	0.001	0.03	<0.1	1.3	<0.02	<0.02	14	0.1	<0.02	5.0	1.36	<0.1	0.04
070242	Soil	14.7	26.6	0.71	26.6	0.003	<1	1.80	0.004	0.04	<0.1	2.3	0.04	<0.02	19	0.3	0.04	4.3	0.58	<0.1	0.03
070243	Soil	10.6	37.7	0.96	34.2	0.002	<1	2.04	0.004	0.03	<0.1	3.1	0.03	<0.02	<5	<0.1	<0.02	5.9	0.91	<0.1	0.12
070244	Soil	16.8	54.9	1.03	49.9	0.002	<1	2.12	0.005	0.04	<0.1	7.3	0.03	<0.02	8	<0.1	<0.02	5.4	1.47	<0.1	0.07
070245	Soil	17.2	35.8	0.87	44.5	0.001	<1	2.10	0.006	0.05	<0.1	5.4	0.04	0.03	18	<0.1	0.02	4.5	1.55	<0.1	0.14
070246	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
070247	Soil	21.3	17.6	0.61	31.5	0.005	<1	0.96	0.002	0.02	<0.1	4.7	0.02	0.03	24	0.1	0.03	2.5	0.30	<0.1	0.05



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**Project:** NA-16176  
**Report Date:** September 20, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000238.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
070028	Soil	0.19	3.1	0.4	<0.05	5.2	8.68	44.4	0.05	<1	0.5	69.9	14	<2
070029	Soil	0.07	2.3	4.0	<0.05	8.5	7.12	27.6	0.03	<1	0.2	65.6	<10	<2
070030	Soil	0.04	3.7	1.0	<0.05	2.1	5.26	45.5	0.03	<1	0.4	65.8	<10	<2
069421	Soil	0.03	4.1	7.3	<0.05	5.7	4.20	15.5	0.05	<1	<0.1	61.3	<10	<2
069422	Soil	0.12	8.7	1.5	<0.05	5.3	4.58	32.5	0.02	<1	0.4	63.1	<10	<2
069423	Soil	0.03	3.6	14.8	<0.05	4.0	4.74	27.1	0.03	<1	0.3	74.2	<10	<2
069424	Soil	0.24	4.3	0.7	<0.05	2.8	2.18	34.5	<0.02	<1	0.3	56.4	<10	<2
069425	Soil	0.06	3.7	3.0	<0.05	2.6	3.45	48.6	<0.02	<1	0.4	78.3	<10	<2
069426	Soil	0.04	3.4	1.0	<0.05	7.1	9.55	43.7	<0.02	<1	0.3	50.3	<10	<2
069427	Soil	0.08	2.8	5.2	<0.05	6.1	8.03	25.3	0.03	<1	0.5	57.5	14	<2
069428	Soil	0.04	2.6	0.7	<0.05	7.2	7.73	25.7	<0.02	<1	0.3	59.8	<10	<2
069429	Soil	<0.02	3.0	80.7	<0.05	5.3	8.77	37.9	0.08	<1	0.3	51.9	<10	<2
069430	Soil	0.05	2.0	1.7	<0.05	8.5	5.41	28.1	<0.02	<1	<0.1	79.3	12	<2
070231	Soil	0.08	3.4	9.0	<0.05	6.4	8.81	34.6	0.05	<1	0.9	58.0	<10	<2
070232	Soil	0.09	3.4	0.3	<0.05	1.6	2.25	27.0	<0.02	<1	<0.1	60.5	<10	<2
070233	Soil	0.22	4.8	7.0	<0.05	0.9	3.53	39.0	<0.02	1	<0.1	29.4	<10	<2
070234	Soil	0.19	2.0	0.4	<0.05	1.4	0.91	12.9	<0.02	<1	0.2	13.1	<10	<2
070235	Soil	0.33	5.0	5.4	<0.05	0.2	1.61	44.9	<0.02	<1	0.2	13.4	<10	<2
070236	Soil	0.81	7.9	0.8	<0.05	0.2	2.12	50.5	<0.02	<1	<0.1	16.5	<10	<2
070237	Soil	0.08	3.5	2.8	<0.05	4.0	4.13	42.2	<0.02	<1	0.2	70.2	<10	<2
070238	Soil	0.07	3.8	0.3	<0.05	1.7	5.51	50.0	<0.02	<1	0.6	79.0	<10	<2
070239	Soil	0.17	4.8	0.4	<0.05	3.7	4.25	26.9	<0.02	<1	0.3	54.2	<10	<2
070240	Soil	0.07	2.8	2.6	<0.05	3.5	5.86	37.5	0.03	<1	0.2	37.4	<10	<2
070241	Soil	0.02	2.8	0.6	<0.05	4.2	4.09	31.6	<0.02	<1	0.5	60.6	<10	<2
070242	Soil	0.05	2.8	4.4	<0.05	4.7	7.27	29.0	<0.02	1	0.4	57.7	<10	<2
070243	Soil	<0.02	2.1	0.7	<0.05	7.4	7.34	20.9	0.02	<1	0.8	67.7	<10	2
070244	Soil	0.15	3.4	0.8	<0.05	5.1	9.84	31.5	0.06	<1	0.5	53.8	<10	<2
070245	Soil	0.03	3.4	0.8	<0.05	6.7	10.20	32.2	0.02	<1	0.6	55.3	<10	<2
070246	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
070247	Soil	0.13	2.5	1.0	<0.05	1.5	19.63	36.7	<0.02	<1	0.2	28.6	<10	<2



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**Project:** NA-16176  
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# CERTIFICATE OF ANALYSIS

# WHI16000238.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
070248	Soil	0.38	42.43	26.40	79.5	144	39.3	12.9	252	3.46	170.7	2.5	21.4	10.7	40.5	0.07	0.60	0.40	19	0.68	0.055
070249	Soil	0.44	54.32	39.37	108.4	164	44.5	23.1	540	4.49	51.9	1.6	6.5	15.5	28.1	0.07	0.65	0.53	13	0.32	0.056
070250	Soil	0.55	37.79	21.31	63.6	49	27.2	10.4	313	3.34	20.4	0.9	3.9	9.5	5.0	<0.01	0.56	0.46	15	0.04	0.066
072511	Soil	0.83	34.20	25.12	93.3	35	39.1	18.6	504	3.78	22.2	1.5	6.9	9.1	10.6	0.14	0.91	0.39	25	0.08	0.068
072512	Soil	0.82	41.43	24.67	64.5	66	37.9	22.3	799	3.42	21.4	2.2	6.7	11.9	10.1	0.08	0.90	0.39	14	0.08	0.061
072513	Soil	0.51	61.26	61.88	107.8	270	50.4	32.5	1471	4.57	28.5	2.5	26.8	17.1	23.6	0.10	3.53	0.47	11	0.27	0.062
072514	Soil	1.21	46.97	28.65	83.2	190	117.4	45.0	1615	5.69	210.3	1.2	14.2	7.7	17.6	0.14	1.13	0.32	48	0.33	0.049
072515	Soil	0.60	48.87	46.08	85.3	166	51.1	24.6	677	4.08	251.4	2.7	50.8	15.5	44.8	0.09	0.71	0.47	23	0.22	0.045
072516	Soil	0.91	61.61	48.56	103.9	178	56.7	28.5	973	5.04	35.8	2.5	9.3	16.5	30.7	0.21	1.57	0.63	12	0.52	0.051
072517	Soil	0.39	58.56	39.51	110.1	125	44.6	24.8	605	4.37	47.3	1.2	7.7	16.2	85.8	0.11	0.70	0.44	14	0.61	0.056
072518	Soil	0.26	47.43	36.98	102.0	80	40.4	24.4	448	3.82	13.8	1.2	2.0	13.7	13.7	0.08	0.66	0.49	13	0.17	0.042
072519	Soil	0.59	49.44	40.47	97.1	104	34.4	20.0	684	3.61	17.3	1.4	2.8	10.6	10.5	0.02	0.90	0.51	15	0.13	0.052
072520	Soil	0.25	43.42	24.91	82.2	58	36.9	17.2	536	3.54	20.3	0.5	3.0	9.7	10.9	0.21	0.81	0.33	21	0.40	0.058
070251	Soil	0.65	134.04	156.51	139.6	156	61.6	56.1	1519	4.70	11.9	2.6	1.8	17.1	6.9	0.16	0.57	0.50	19	0.09	0.060
070252	Soil	0.33	63.84	34.84	107.4	74	54.2	31.2	892	4.59	27.9	1.1	2.2	13.9	6.6	0.07	0.59	0.64	15	0.15	0.039
070253	Soil	0.49	59.42	38.46	107.5	59	46.5	23.8	1068	4.58	56.9	2.5	7.2	6.1	6.5	0.04	0.76	0.57	18	0.07	0.050
070254	Soil	0.66	21.79	32.62	65.1	67	24.2	14.0	592	2.93	19.0	2.1	2.3	3.3	7.8	0.11	0.38	0.36	13	0.09	0.143
070255	Soil	0.33	39.30	28.25	103.6	138	48.0	15.9	663	3.83	23.5	7.4	4.7	7.5	9.9	0.06	0.34	0.43	15	0.20	0.058
070256	Soil	0.39	50.84	42.40	75.4	48	36.4	16.9	722	3.67	27.4	0.9	2.1	10.7	7.7	0.03	0.49	0.45	14	0.11	0.048
070257	Soil	0.80	45.33	26.15	101.2	46	45.3	17.0	963	4.78	35.8	1.1	2.6	6.4	3.4	0.06	0.71	0.75	19	0.02	0.068
070258	Soil	1.26	61.82	22.89	104.5	29	48.6	14.9	872	4.88	35.8	4.6	1.6	6.7	4.6	0.05	1.23	0.73	17	0.08	0.062
070259	Soil	0.71	87.74	68.92	126.5	135	47.4	38.1	1327	4.71	9.7	1.9	1.2	22.7	37.5	0.15	0.58	0.79	12	0.62	0.079
070260	Soil	0.48	72.28	62.33	131.6	204	49.2	31.3	1187	4.82	10.2	1.8	1.2	25.9	27.3	0.09	1.11	0.78	13	0.35	0.066
069271	Soil	0.70	52.01	41.13	105.4	130	44.0	24.2	864	4.21	99.1	2.7	25.8	6.0	6.4	0.02	0.85	0.48	17	0.05	0.072
069272	Soil	0.96	25.62	17.77	84.9	36	35.6	13.1	636	3.94	42.5	0.8	10.6	4.3	4.0	0.11	0.44	0.31	17	0.03	0.079
069273	Soil	1.04	28.17	17.94	76.4	93	36.1	13.4	533	3.48	34.5	0.8	13.8	3.5	4.1	0.07	0.45	0.27	16	0.04	0.072
069274	Soil	0.41	23.35	15.34	33.7	57	13.9	13.2	1242	1.65	19.7	0.6	2.0	1.1	4.8	0.07	0.37	0.21	13	0.06	0.066
069275	Soil	0.13	16.41	59.94	52.8	108	17.6	9.4	304	1.65	311.6	0.8	25.9	10.0	18.8	0.22	0.39	0.28	5	0.28	0.032
069276	Soil	0.31	24.74	47.73	67.4	107	34.1	23.4	895	3.40	257.7	1.7	5.1	13.8	14.0	0.10	0.61	0.31	10	0.20	0.059
069277	Soil	0.86	40.48	56.83	41.5	170	39.5	21.0	746	3.78	156.1	2.1	11.1	12.1	54.0	0.09	1.04	0.58	7	1.05	0.061



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
070248	Soil	17.8	32.0	0.82	71.3	0.002	<1	2.19	0.009	0.04	<0.1	3.7	0.03	0.02	<5	0.6	<0.02	5.4	1.20	<0.1	0.15
070249	Soil	23.0	25.1	0.80	35.4	0.002	<1	1.94	0.003	0.04	<0.1	3.0	0.02	<0.02	11	0.4	0.06	4.5	0.58	<0.1	0.16
070250	Soil	17.3	22.0	0.63	24.1	0.004	<1	1.73	0.008	0.03	<0.1	1.2	0.04	0.03	10	<0.1	0.11	4.5	1.04	<0.1	0.08
072511	Soil	25.8	29.1	0.69	33.0	0.015	<1	1.86	0.002	0.04	0.1	1.5	0.07	<0.02	<5	0.3	0.04	5.4	1.00	<0.1	0.03
072512	Soil	20.1	24.1	0.61	28.6	0.005	<1	1.61	0.006	0.03	<0.1	1.7	0.04	<0.02	27	<0.1	<0.02	4.3	0.62	<0.1	0.03
072513	Soil	15.7	23.3	0.66	27.5	<0.001	<1	1.64	0.003	0.04	<0.1	3.5	0.06	<0.02	32	0.2	<0.02	4.1	1.19	<0.1	0.07
072514	Soil	21.8	140.1	1.30	42.7	0.001	<1	2.06	0.007	0.05	<0.1	15.6	0.04	0.03	29	0.1	<0.02	5.2	1.70	<0.1	0.07
072515	Soil	17.0	44.1	1.05	34.8	0.002	1	2.09	0.003	0.04	<0.1	2.7	0.03	<0.02	14	<0.1	<0.02	5.4	0.80	<0.1	0.14
072516	Soil	20.0	22.7	0.74	27.0	0.002	<1	1.59	0.003	0.05	<0.1	4.3	0.05	<0.02	16	0.1	0.12	3.8	0.41	<0.1	0.14
072517	Soil	17.1	27.6	0.86	25.5	0.002	2	1.95	0.002	0.04	<0.1	2.7	0.02	<0.02	6	<0.1	<0.02	5.0	0.46	<0.1	0.20
072518	Soil	14.3	24.1	0.78	20.9	0.001	1	1.84	0.001	0.03	<0.1	1.6	0.03	<0.02	18	0.5	0.05	4.6	0.45	<0.1	0.10
072519	Soil	13.5	26.4	0.75	41.5	0.001	<1	1.92	0.005	0.03	<0.1	1.6	0.05	0.02	13	<0.1	0.03	4.9	1.01	<0.1	0.05
072520	Soil	18.6	36.2	1.03	43.5	0.002	2	1.77	0.003	0.03	<0.1	3.7	0.02	<0.02	6	0.1	0.08	4.4	0.40	<0.1	0.09
070251	Soil	25.8	38.9	1.10	43.7	0.001	<1	2.79	0.005	0.05	<0.1	2.2	0.06	<0.02	<5	0.5	<0.02	7.1	5.97	<0.1	0.11
070252	Soil	28.6	30.6	0.96	23.3	0.002	4	2.33	0.007	0.06	<0.1	3.2	0.02	<0.02	<5	<0.1	0.05	6.0	1.92	<0.1	0.29
070253	Soil	10.7	36.9	1.10	26.5	0.001	<1	2.54	0.006	0.03	<0.1	2.3	0.04	0.02	<5	<0.1	0.03	7.3	2.22	<0.1	0.13
070254	Soil	10.2	21.9	0.55	37.7	0.003	<1	1.57	0.008	0.03	<0.1	0.9	0.04	0.05	13	0.1	<0.02	4.6	1.30	<0.1	0.03
070255	Soil	15.0	35.7	1.03	22.0	0.002	<1	2.19	0.005	0.04	<0.1	2.3	<0.02	0.02	8	0.2	<0.02	5.7	1.68	<0.1	0.12
070256	Soil	21.6	29.6	0.82	34.7	0.001	<1	2.03	0.004	0.05	<0.1	1.5	0.04	<0.02	18	<0.1	0.02	5.2	1.09	<0.1	0.07
070257	Soil	18.2	36.5	1.22	27.4	0.002	<1	2.55	0.005	0.03	<0.1	2.1	0.03	0.02	15	<0.1	0.14	6.6	1.03	<0.1	0.06
070258	Soil	19.6	33.5	1.32	20.2	0.002	<1	2.47	0.003	0.03	<0.1	2.7	<0.02	<0.02	17	<0.1	0.11	6.6	1.49	<0.1	0.11
070259	Soil	13.4	26.9	0.88	29.4	0.002	1	2.16	0.002	0.06	<0.1	3.1	0.05	0.03	35	<0.1	<0.02	5.3	0.88	<0.1	0.17
070260	Soil	13.9	29.1	0.86	26.6	<0.001	<1	2.25	0.002	0.03	<0.1	4.1	0.04	<0.02	42	<0.1	<0.02	5.7	0.80	<0.1	0.19
069271	Soil	21.0	31.9	0.85	24.0	0.003	<1	2.13	0.006	0.04	<0.1	1.9	0.05	0.02	13	<0.1	0.02	6.0	3.01	0.1	0.13
069272	Soil	22.3	31.5	0.90	25.1	0.003	<1	2.07	0.004	0.03	<0.1	1.3	0.04	0.03	<5	<0.1	<0.02	6.0	0.87	<0.1	0.18
069273	Soil	17.3	28.3	0.81	21.4	0.004	<1	1.88	0.007	0.03	<0.1	1.2	0.03	0.03	<5	<0.1	<0.02	5.6	0.98	<0.1	0.15
069274	Soil	6.8	11.1	0.35	12.3	0.010	<1	0.99	0.019	0.02	<0.1	0.7	0.03	0.03	19	<0.1	<0.02	3.1	0.94	0.1	0.07
069275	Soil	20.0	9.3	0.40	30.8	<0.001	<1	1.07	0.002	0.03	<0.1	1.0	0.03	<0.02	9	<0.1	<0.02	2.1	1.22	<0.1	<0.02
069276	Soil	18.0	17.3	0.63	36.2	0.001	<1	1.75	0.003	0.07	<0.1	1.8	0.05	<0.02	40	<0.1	0.03	3.4	0.84	<0.1	0.06
069277	Soil	11.0	9.5	0.49	46.3	0.003	2	0.77	0.006	0.08	<0.1	2.0	0.04	0.19	9	<0.1	0.08	1.7	0.58	<0.1	<0.02



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**Project:** NA-16176  
**Report Date:** September 20, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000238.1

	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
070248	Soil	0.11	4.6	0.8	<0.05	6.2	7.89	32.3	0.05	<1	0.5	42.9	<10	<2
070249	Soil	0.04	2.9	1.9	<0.05	7.5	10.00	45.4	<0.02	<1	0.7	54.2	<10	<2
070250	Soil	0.16	4.1	0.5	<0.05	2.6	1.89	32.1	0.03	<1	0.9	43.8	<10	<2
072511	Soil	0.29	5.6	1.4	<0.05	1.7	4.20	52.1	<0.02	<1	<0.1	50.0	<10	<2
072512	Soil	0.07	3.3	3.5	<0.05	2.8	6.60	39.5	<0.02	<1	0.8	45.7	<10	<2
072513	Soil	<0.02	2.4	2.5	<0.05	7.7	8.56	30.6	<0.02	<1	0.8	52.1	<10	<2
072514	Soil	0.05	4.1	1.5	<0.05	5.6	13.78	42.9	0.06	<1	0.8	58.3	<10	<2
072515	Soil	0.04	2.4	11.9	<0.05	5.6	6.17	34.8	0.04	<1	0.6	56.2	<10	<2
072516	Soil	<0.02	2.5	1.2	<0.05	14.2	13.70	39.8	<0.02	<1	0.3	48.0	<10	<2
072517	Soil	<0.02	2.1	4.3	<0.05	9.7	8.50	34.7	0.03	<1	0.4	57.9	<10	<2
072518	Soil	0.10	2.4	0.9	<0.05	3.9	4.82	27.1	<0.02	<1	0.3	53.7	<10	<2
072519	Soil	0.04	3.9	4.9	<0.05	2.2	4.46	24.2	<0.02	<1	0.1	50.6	<10	<2
072520	Soil	0.03	2.2	0.7	<0.05	3.5	7.64	34.8	<0.02	<1	0.6	52.1	12	<2
070251	Soil	0.03	3.8	1.8	<0.05	4.4	4.85	48.1	0.05	<1	0.8	100.5	<10	<2
070252	Soil	<0.02	2.8	0.5	<0.05	11.5	4.81	53.7	<0.02	<1	0.4	78.5	<10	<2
070253	Soil	0.03	3.3	1.1	<0.05	4.0	3.70	21.8	<0.02	<1	0.6	79.9	<10	<2
070254	Soil	0.17	4.4	0.8	<0.05	1.8	2.33	20.6	<0.02	<1	0.2	40.4	<10	5
070255	Soil	0.04	3.2	2.5	<0.05	3.9	5.21	27.6	<0.02	<1	0.8	77.7	<10	<2
070256	Soil	0.04	3.7	0.8	<0.05	1.9	2.34	43.4	0.02	<1	0.8	60.8	<10	<2
070257	Soil	0.07	4.1	2.1	<0.05	3.1	2.43	35.2	<0.02	<1	0.8	86.8	<10	<2
070258	Soil	0.04	3.5	0.4	<0.05	4.5	4.89	35.4	0.04	<1	0.5	92.6	12	<2
070259	Soil	<0.02	2.7	1.2	<0.05	8.0	11.42	27.9	0.04	<1	1.3	71.1	<10	<2
070260	Soil	<0.02	2.6	1.3	<0.05	9.0	12.97	27.3	<0.02	<1	0.4	77.4	<10	<2
069271	Soil	0.10	4.5	4.6	<0.05	3.8	3.10	40.4	<0.02	<1	0.1	66.2	<10	<2
069272	Soil	0.10	3.5	0.4	<0.05	5.9	2.15	40.6	<0.02	<1	0.1	67.1	<10	<2
069273	Soil	0.12	3.2	2.2	<0.05	4.9	2.14	32.1	0.02	<1	0.2	57.2	<10	<2
069274	Soil	0.14	2.3	0.5	<0.05	1.8	1.39	13.9	<0.02	<1	0.3	23.1	<10	<2
069275	Soil	<0.02	2.8	4.7	<0.05	1.2	3.30	39.4	0.02	<1	0.2	14.5	<10	<2
069276	Soil	0.06	5.4	1.3	<0.05	2.4	7.81	36.4	0.04	<1	0.3	34.9	<10	<2
069277	Soil	0.05	4.4	7.7	<0.05	2.8	8.07	22.3	<0.02	<1	0.4	17.2	<10	<2



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# CERTIFICATE OF ANALYSIS

# WHI16000238.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
069278	Soil	0.60	43.52	31.39	80.3	94	40.3	20.2	708	3.96	40.3	1.5	4.3	12.9	33.3	0.09	0.70	0.35	13	0.72	0.057
069279	Soil	0.71	50.11	33.60	84.8	165	43.4	26.7	595	4.07	39.8	2.0	3.2	16.0	25.4	0.06	0.78	0.45	13	0.29	0.058
069280	Soil	0.52	33.03	35.74	89.5	121	29.3	12.3	691	4.02	128.8	1.6	11.9	5.6	54.4	0.17	0.71	0.35	12	1.04	0.067
070131	Soil	0.51	46.78	62.29	106.4	557	39.7	21.6	633	3.74	1041.4	1.5	221.0	13.0	28.4	0.25	3.36	0.38	8	0.34	0.047
070132	Soil	1.49	74.39	54.37	106.9	299	59.1	31.9	606	4.34	387.4	1.5	138.9	12.0	29.3	0.16	1.86	0.72	15	0.47	0.062
070133	Soil	1.10	59.64	52.76	113.1	280	58.6	27.9	641	4.39	195.3	1.8	74.7	13.2	29.1	0.21	1.98	0.57	14	0.34	0.075
070134	Soil	6.91	58.79	53.95	123.6	406	48.8	24.3	767	4.29	301.7	2.0	65.2	11.5	28.9	0.43	2.52	0.52	15	0.47	0.064
070135	Soil	4.21	56.10	56.29	100.7	439	45.7	24.2	785	4.01	138.2	1.5	54.5	10.6	24.1	0.31	2.22	0.51	14	0.37	0.071
070136	Soil	0.71	21.24	15.91	60.8	147	26.3	7.6	293	2.65	56.3	1.0	13.5	4.4	6.0	0.08	0.52	0.28	13	0.04	0.069
070137	Soil	0.50	31.78	47.96	87.1	140	42.0	21.6	775	3.56	113.6	1.8	22.8	10.6	18.2	0.17	0.49	0.37	36	0.24	0.056
070138	Soil	0.34	37.44	45.23	50.2	118	41.6	31.6	579	2.68	379.5	1.9	18.6	13.3	22.1	0.08	0.58	0.33	7	0.24	0.045
070139	Soil	0.40	35.88	37.24	83.8	94	41.1	17.7	511	3.94	13.4	1.8	1.8	15.6	25.2	0.07	0.76	0.44	10	0.25	0.052
070140	Soil	0.35	34.56	30.85	82.2	55	36.8	18.2	593	3.59	12.8	2.3	1.3	12.7	35.6	0.05	0.76	0.44	10	0.31	0.053
069371	Soil	0.24	35.89	33.61	91.8	74	38.8	13.9	407	3.49	6.2	1.9	<0.2	8.9	16.7	0.05	0.36	0.42	12	0.15	0.060
069372	Soil	0.22	12.55	17.34	44.9	69	10.2	5.1	367	1.69	4.3	1.2	1.2	2.2	23.5	0.16	0.24	0.16	7	0.41	0.052
069373	Soil	0.39	46.35	45.65	87.9	158	28.1	15.0	1000	3.40	11.6	3.1	0.9	7.2	35.3	0.44	0.71	0.38	10	0.61	0.109
069374	Soil	0.83	47.35	60.80	96.4	252	31.4	16.6	1037	4.27	13.2	3.7	2.2	4.0	43.5	0.21	1.40	0.41	8	0.96	0.091
069375	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
069376	Soil	0.43	60.76	80.27	139.8	213	41.9	24.1	1035	4.72	168.0	2.3	16.3	20.7	21.0	0.10	0.86	0.60	15	0.27	0.098
069377	Soil	0.34	43.11	33.47	98.8	89	39.7	18.0	757	4.24	8.9	1.6	4.3	18.2	25.5	0.10	0.49	0.53	12	0.26	0.079
069378	Soil	0.30	52.58	45.04	108.1	105	44.2	24.4	978	4.59	7.1	1.9	0.7	20.1	22.1	0.08	0.37	0.58	13	0.31	0.081
069379	Soil	0.38	44.44	39.95	106.1	117	40.7	20.9	838	4.35	8.7	1.7	0.4	17.3	22.3	0.09	0.42	0.49	12	0.30	0.074
069380	Soil	0.30	50.74	43.11	103.0	109	42.0	24.0	913	4.32	5.7	1.2	<0.2	18.8	23.4	0.12	0.30	0.52	12	0.32	0.070
069391	Soil	0.23	39.17	34.89	98.4	100	41.0	20.7	644	3.93	6.1	1.5	<0.2	18.1	24.5	0.08	0.98	0.37	12	0.23	0.039
069392	Soil	0.36	12.85	18.93	50.0	44	20.4	7.4	347	2.67	34.4	0.7	<0.2	2.1	36.4	0.10	0.48	0.35	21	0.34	0.056
069393	Soil	0.51	16.40	21.12	74.6	21	22.2	9.1	303	3.76	40.5	0.5	<0.2	4.2	19.7	0.09	1.01	0.47	17	0.23	0.052
069394	Soil	0.52	14.73	32.81	60.3	49	24.3	11.4	552	3.27	18.0	0.7	<0.2	6.9	16.5	0.08	0.92	0.30	12	0.15	0.028
069395	Soil	0.47	13.34	17.59	46.3	32	15.3	6.9	154	2.84	19.9	0.5	<0.2	2.7	7.8	0.11	0.89	0.26	12	0.05	0.029
069396	Soil	0.57	28.73	31.47	144.9	99	31.5	15.1	1457	4.39	382.2	0.7	<0.2	5.8	33.8	0.95	1.16	0.42	13	0.32	0.059
069397	Soil	0.35	29.73	29.84	116.3	94	34.7	15.1	818	3.80	401.1	0.7	0.6	8.0	21.7	0.19	0.60	0.56	9	0.28	0.062



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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
069278	Soil	14.7	23.2	0.74	40.0	0.002	<1	1.79	0.005	0.04	<0.1	2.3	0.05	0.03	13	0.3	0.04	3.7	0.62	<0.1	0.07
069279	Soil	17.1	23.1	0.76	33.2	0.003	<1	1.68	0.004	0.03	<0.1	2.4	0.04	0.03	29	0.2	0.04	4.4	0.53	<0.1	0.10
069280	Soil	20.0	13.7	0.41	48.7	0.004	1	1.13	0.010	0.03	<0.1	4.0	0.05	0.06	38	0.2	0.07	2.8	0.34	<0.1	0.11
070131	Soil	13.2	12.4	0.35	39.4	<0.001	<1	1.08	0.003	0.05	<0.1	3.2	0.06	0.07	14	<0.1	<0.02	2.3	1.08	<0.1	0.09
070132	Soil	18.9	29.4	0.77	28.3	0.003	5	1.79	0.003	0.04	<0.1	2.9	0.04	<0.02	11	<0.1	0.09	4.5	1.00	<0.1	0.11
070133	Soil	23.9	25.4	0.72	30.1	0.003	<1	1.68	0.004	0.04	<0.1	3.7	0.03	0.02	15	<0.1	0.06	4.2	0.75	<0.1	0.12
070134	Soil	19.7	21.7	0.69	31.1	0.002	<1	1.45	0.003	0.05	<0.1	4.3	0.09	0.04	42	0.6	0.04	3.5	0.58	<0.1	0.17
070135	Soil	20.3	22.3	0.73	29.6	0.001	<1	1.50	0.003	0.04	<0.1	3.6	0.06	0.03	18	0.1	0.04	4.2	0.61	<0.1	0.12
070136	Soil	16.4	20.8	0.61	39.5	0.002	<1	1.51	0.005	0.03	<0.1	1.6	0.05	0.03	<5	<0.1	<0.02	3.9	1.26	<0.1	0.10
070137	Soil	19.7	57.1	1.29	34.9	0.004	<1	2.21	0.005	0.04	<0.1	4.2	0.05	0.02	<5	<0.1	<0.02	5.9	0.83	<0.1	0.06
070138	Soil	17.7	12.0	0.50	51.3	0.001	<1	1.52	0.004	0.09	<0.1	1.3	0.06	<0.02	21	<0.1	0.07	2.4	0.99	<0.1	0.05
070139	Soil	20.7	20.7	0.69	23.4	0.002	<1	1.53	0.003	0.04	<0.1	2.3	0.02	0.03	8	<0.1	<0.02	3.8	0.51	0.1	0.28
070140	Soil	22.7	20.5	0.64	22.9	0.002	<1	1.51	0.003	0.03	<0.1	2.1	0.02	0.02	20	<0.1	0.03	3.7	0.50	<0.1	0.10
069371	Soil	20.5	20.8	0.65	46.0	0.002	3	1.97	0.007	0.03	<0.1	2.2	0.04	<0.02	27	0.3	0.02	5.2	1.15	<0.1	0.13
069372	Soil	17.8	4.5	0.11	48.4	0.007	3	0.70	0.020	0.03	<0.1	2.9	0.03	0.04	25	<0.1	0.03	1.1	0.31	<0.1	0.06
069373	Soil	27.6	7.7	0.25	54.3	0.009	3	0.89	0.020	0.03	<0.1	5.7	0.07	0.03	30	0.2	0.10	1.8	0.50	<0.1	0.05
069374	Soil	26.9	7.1	0.19	48.9	0.004	3	0.82	0.008	0.03	<0.1	5.0	0.04	0.07	45	0.4	0.05	1.4	0.54	<0.1	0.08
069375	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
069376	Soil	25.3	24.1	0.80	23.1	0.005	3	1.91	0.003	0.03	<0.1	4.1	0.03	<0.02	45	0.1	<0.02	4.8	0.73	<0.1	0.12
069377	Soil	22.5	22.6	0.78	24.9	0.003	3	1.87	0.003	0.03	<0.1	2.8	0.02	<0.02	<5	0.4	<0.02	4.8	0.49	<0.1	0.12
069378	Soil	24.9	24.5	0.82	25.6	0.003	2	2.07	0.003	0.04	<0.1	3.9	<0.02	<0.02	21	<0.1	<0.02	5.0	0.71	<0.1	0.15
069379	Soil	20.2	23.8	0.76	26.0	0.003	2	1.96	0.003	0.04	<0.1	3.5	0.02	<0.02	14	<0.1	<0.02	5.3	0.58	<0.1	0.08
069380	Soil	19.1	23.4	0.77	27.5	0.002	2	2.03	0.002	0.04	<0.1	3.3	0.03	<0.02	<5	<0.1	<0.02	4.5	0.80	<0.1	0.12
069391	Soil	49.6	23.9	0.82	26.6	0.003	<1	1.84	0.005	0.03	<0.1	5.1	0.04	<0.02	14	0.1	<0.02	4.9	0.66	<0.1	0.12
069392	Soil	17.0	17.4	0.33	66.9	0.005	2	1.30	0.004	0.04	0.2	1.2	0.09	0.02	16	0.5	<0.02	4.5	1.48	<0.1	<0.02
069393	Soil	19.1	16.5	0.36	33.6	0.003	2	1.34	0.004	0.05	<0.1	1.4	0.06	0.02	14	<0.1	0.08	5.1	1.30	<0.1	<0.02
069394	Soil	25.4	11.8	0.21	41.3	0.003	<1	0.92	0.003	0.06	<0.1	2.2	0.05	<0.02	9	0.5	<0.02	2.3	1.22	<0.1	0.03
069395	Soil	11.2	9.1	0.16	23.3	0.005	3	0.79	0.009	0.03	<0.1	1.1	0.03	<0.02	<5	<0.1	<0.02	3.1	1.07	<0.1	<0.02
069396	Soil	17.8	13.7	0.28	105.5	0.003	<1	1.16	0.005	0.06	0.2	2.3	0.05	0.03	10	0.3	<0.02	3.3	1.97	<0.1	0.03
069397	Soil	19.7	14.7	0.45	34.8	0.002	<1	1.04	0.003	0.04	<0.1	2.2	0.03	0.02	28	0.2	0.02	3.0	2.28	<0.1	0.02



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**Project:** NA-16176  
**Report Date:** September 20, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000238.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
069278	Soil	0.08	2.8	0.4	<0.05	4.8	8.08	29.0	<0.02	<1	0.9	49.8	<10	4
069279	Soil	0.03	2.4	4.0	<0.05	5.2	8.65	33.7	<0.02	<1	0.9	55.9	<10	<2
069280	Soil	0.20	3.0	0.8	<0.05	4.1	18.84	37.3	<0.02	<1	0.4	26.7	<10	<2
070131	Soil	0.02	3.3	4.6	<0.05	7.5	6.97	25.1	<0.02	<1	0.7	20.7	<10	<2
070132	Soil	0.02	2.7	1.6	<0.05	9.2	6.64	34.6	0.04	<1	0.8	55.8	<10	2
070133	Soil	<0.02	2.6	4.7	<0.05	9.1	9.21	43.0	<0.02	<1	0.5	53.1	11	<2
070134	Soil	0.08	2.7	2.0	<0.05	9.7	9.64	36.5	0.04	<1	0.2	45.0	<10	<2
070135	Soil	<0.02	2.1	5.0	<0.05	7.1	9.15	35.9	0.06	<1	0.5	49.4	<10	<2
070136	Soil	0.10	4.7	0.5	<0.05	3.9	3.50	28.5	<0.02	<1	0.1	39.0	<10	<2
070137	Soil	0.12	3.7	13.4	<0.05	2.2	6.20	39.2	<0.02	<1	0.6	50.4	<10	<2
070138	Soil	0.05	5.9	0.9	<0.05	1.9	4.94	35.8	0.03	<1	0.7	16.5	<10	<2
070139	Soil	0.05	2.5	6.2	<0.05	7.0	8.22	37.9	<0.02	<1	0.5	49.1	<10	<2
070140	Soil	0.05	2.5	0.4	<0.05	4.6	7.92	42.0	<0.02	<1	<0.1	43.9	<10	<2
069371	Soil	0.13	4.7	1.2	<0.05	4.4	11.04	34.4	0.02	<1	0.7	51.8	<10	3
069372	Soil	0.17	3.5	0.5	<0.05	1.4	11.49	32.3	0.03	<1	0.3	5.7	<10	<2
069373	Soil	0.19	3.3	2.0	<0.05	2.9	22.02	51.9	0.08	<1	0.4	13.6	<10	2
069374	Soil	0.16	3.1	0.7	<0.05	4.1	28.87	50.4	0.05	<1	0.9	10.7	16	6
069375	Soil	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.	L.N.R.
069376	Soil	<0.02	2.5	3.7	<0.05	10.4	14.70	51.5	0.04	<1	0.8	65.2	<10	9
069377	Soil	0.04	2.1	0.4	<0.05	11.0	11.11	45.7	0.06	<1	<0.1	69.2	<10	<2
069378	Soil	<0.02	2.7	1.9	<0.05	12.4	11.82	47.4	<0.02	<1	0.2	69.3	<10	9
069379	Soil	0.04	2.5	0.5	<0.05	7.0	11.71	40.1	0.03	<1	<0.1	64.7	<10	<2
069380	Soil	<0.02	2.8	0.5	<0.05	9.5	10.26	38.5	<0.02	<1	1.0	62.6	<10	<2
069391	Soil	0.03	2.4	0.7	<0.05	8.3	17.84	95.1	0.03	<1	0.4	68.7	<10	<2
069392	Soil	0.80	6.9	0.5	<0.05	0.4	3.49	34.3	0.03	2	0.4	26.0	<10	<2
069393	Soil	0.35	11.3	0.5	<0.05	0.6	3.47	36.5	0.04	<1	0.2	44.8	<10	<2
069394	Soil	0.21	10.1	0.7	<0.05	1.1	6.15	59.1	0.05	<1	0.9	22.8	<10	3
069395	Soil	0.40	6.0	0.5	<0.05	0.3	1.70	23.4	0.03	<1	0.1	25.0	12	<2
069396	Soil	0.35	10.4	0.9	<0.05	1.2	6.96	36.2	<0.02	2	1.3	41.8	<10	3
069397	Soil	0.26	5.5	0.2	<0.05	1.7	6.07	38.3	<0.02	2	<0.1	39.3	<10	<2



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**Project:** NA-16176  
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# CERTIFICATE OF ANALYSIS

# WHI16000238.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
069398	Soil	0.39	19.98	34.49	56.6	104	18.9	12.0	626	2.79	146.6	0.6	<0.2	2.7	26.9	0.26	1.56	0.54	11	0.26	0.047
069399	Soil	0.55	22.87	67.19	73.0	357	22.5	10.7	487	2.88	1243.1	1.8	31.2	5.5	24.8	0.29	1.02	2.10	9	0.22	0.038
069400	Soil	0.44	23.15	29.28	64.8	267	19.6	6.2	222	2.60	398.6	0.6	5.5	2.0	11.3	0.43	0.36	1.06	12	0.08	0.061
072521	Soil	0.41	51.72	24.91	64.7	107	33.1	11.6	558	3.29	19.2	0.5	4.8	6.0	10.2	0.30	4.71	0.29	18	0.36	0.075
072522	Soil	0.44	28.31	12.17	39.0	48	18.0	8.4	373	1.85	7.2	0.6	8.4	1.5	12.6	0.16	0.87	0.22	13	0.34	0.126
072523	Soil	0.55	189.87	38.77	67.3	25	35.8	12.7	355	3.03	7.0	0.4	36.2	9.3	12.4	0.39	4.85	0.24	20	0.31	0.056
072524	Soil	0.26	36.25	14.74	60.2	20	35.7	12.8	350	2.64	6.4	0.4	9.6	11.8	9.5	0.21	0.86	0.23	18	0.32	0.076
072525	Soil	0.38	72.60	29.65	87.1	67	81.3	26.5	1466	4.42	30.1	0.4	92.3	11.9	14.5	0.21	0.53	0.32	30	0.34	0.096
072526	Soil	0.39	90.88	33.44	90.8	85	76.8	25.0	1225	4.33	35.6	1.1	61.3	12.1	12.8	0.11	0.51	0.43	26	0.25	0.088
072527	Soil	0.78	120.78	76.13	96.1	92	63.3	36.3	1234	4.59	44.0	2.1	56.6	13.4	11.9	0.10	0.62	0.57	22	0.16	0.057
072528	Soil	0.75	92.47	54.58	114.2	72	59.4	36.5	941	4.60	23.9	2.4	8.5	13.0	13.8	0.08	0.71	0.48	19	0.11	0.047
072529	Soil	0.53	29.51	23.47	84.0	54	45.5	21.0	953	4.10	13.6	0.8	24.7	6.7	7.3	0.11	0.36	0.42	20	0.06	0.086
072530	Soil	0.89	58.44	41.92	98.8	33	58.0	25.6	891	4.22	11.1	1.1	1.6	12.0	7.4	0.05	0.36	0.36	20	0.13	0.049
072531	Soil	0.26	14.25	13.49	42.3	62	19.1	7.2	344	2.38	7.9	0.5	0.9	1.6	6.6	<0.01	0.23	0.19	14	0.03	0.045
072532	Soil	1.51	85.32	83.43	93.3	119	46.2	35.7	1782	5.09	52.6	3.9	2.8	11.3	18.1	0.09	2.23	0.70	17	0.06	0.088
072533	Soil	1.55	96.07	83.16	94.2	111	45.7	36.5	1831	5.45	54.5	5.1	4.5	12.9	26.7	0.13	2.49	0.70	17	0.06	0.101
072534	Soil	1.05	92.68	63.41	131.0	102	83.9	47.0	1381	5.47	54.3	3.5	12.0	17.7	10.2	0.05	3.00	0.77	15	0.18	0.030
072535	Soil	0.73	106.03	66.34	128.5	65	72.5	43.0	1424	5.72	30.7	1.3	1.0	15.5	9.6	<0.01	0.74	0.78	22	0.11	0.042
072536	Soil	1.09	91.13	117.65	113.5	138	55.9	40.9	2181	5.21	44.8	1.5	<0.2	7.4	12.7	0.09	0.64	1.11	19	0.21	0.095
072537	Soil	1.19	77.95	46.41	105.5	83	56.2	34.7	1206	5.00	48.7	1.9	3.4	13.0	12.7	0.11	2.37	0.77	14	0.34	0.044
072538	Soil	0.88	75.08	38.18	102.3	86	50.4	27.6	1206	4.83	42.3	2.1	6.6	7.7	23.1	0.12	2.21	0.76	12	1.01	0.072
072539	Soil	0.49	59.67	43.75	98.2	154	43.0	21.4	457	4.22	24.4	2.3	3.9	15.4	35.5	0.06	0.72	0.56	10	0.45	0.048
072540	Soil	0.46	75.77	69.73	88.5	284	52.7	19.4	458	4.30	27.9	2.1	10.8	12.8	16.1	0.07	0.60	0.54	15	0.17	0.048
072541	Soil	0.54	33.11	22.13	61.7	94	23.2	8.3	353	2.55	39.6	1.8	8.1	2.7	65.6	0.17	1.15	0.28	10	1.01	0.121
072542	Soil	0.87	79.54	53.68	109.2	53	58.1	39.4	747	4.36	105.0	2.6	7.8	11.0	20.5	0.16	1.07	0.53	19	0.18	0.043
072543	Soil	1.04	28.20	29.52	60.9	80	25.6	15.9	824	3.28	21.6	1.1	3.2	1.7	9.0	0.14	0.86	0.37	20	0.08	0.117
072544	Soil	0.60	29.56	26.74	85.6	48	34.3	24.3	1233	4.15	29.3	0.9	1.4	4.8	4.1	0.17	0.55	0.68	19	0.02	0.081
072545	Soil	0.98	75.71	124.68	143.7	95	60.8	60.0	1003	5.14	325.4	1.8	45.1	8.7	16.4	0.17	1.67	0.60	19	0.04	0.063
072546	Soil	0.51	27.02	29.59	46.1	49	17.8	14.6	482	2.38	20.1	0.9	3.1	1.2	6.4	0.04	0.49	0.32	13	0.06	0.060
072547	Soil	1.02	49.24	49.83	86.5	37	37.4	43.9	1713	4.31	118.1	1.3	12.1	4.9	6.0	0.09	1.05	0.59	19	0.03	0.081



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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
069398	Soil	14.7	8.0	0.11	64.5	0.003	2	0.75	0.007	0.06	0.1	1.6	0.04	<0.02	12	0.2	0.03	2.1	2.52	<0.1	<0.02
069399	Soil	19.2	8.9	0.17	39.7	0.001	3	0.70	0.008	0.04	0.5	1.4	0.06	0.04	18	0.3	<0.02	2.1	2.13	<0.1	<0.02
069400	Soil	14.5	13.5	0.30	21.3	0.002	<1	0.97	0.008	0.04	0.1	0.6	0.04	0.03	24	0.2	0.06	3.5	1.28	<0.1	0.02
072521	Soil	18.5	26.3	0.83	44.2	0.002	2	1.43	0.003	0.03	<0.1	4.6	<0.02	0.02	<5	0.4	0.04	4.0	0.36	<0.1	0.10
072522	Soil	11.7	14.2	0.42	55.9	0.006	<1	1.04	0.015	0.03	<0.1	2.1	0.03	0.07	15	<0.1	<0.02	3.1	0.76	<0.1	0.05
072523	Soil	21.3	23.7	1.24	35.5	0.003	<1	1.62	0.005	0.03	<0.1	6.2	<0.02	0.03	25	<0.1	0.07	4.3	0.61	<0.1	0.03
072524	Soil	28.4	19.3	0.92	47.5	0.005	2	1.19	0.002	0.03	<0.1	5.8	0.04	0.02	5	0.4	0.05	2.8	0.55	<0.1	<0.02
072525	Soil	29.7	70.0	1.50	122.4	0.004	1	2.13	0.005	0.04	<0.1	7.5	0.03	0.02	45	<0.1	0.05	5.6	1.50	<0.1	0.07
072526	Soil	27.9	62.0	1.40	98.4	0.005	1	2.08	0.005	0.04	<0.1	4.8	<0.02	0.02	25	0.4	0.14	5.4	1.80	<0.1	0.07
072527	Soil	22.4	50.4	1.40	67.0	0.002	<1	2.34	0.004	0.03	<0.1	2.9	0.03	<0.02	8	<0.1	0.10	6.1	1.70	0.1	0.09
072528	Soil	24.4	41.1	1.30	44.7	0.002	2	2.46	0.004	0.03	<0.1	2.7	0.02	<0.02	<5	<0.1	0.07	7.3	1.98	0.1	0.07
072529	Soil	25.7	34.8	1.09	38.0	0.004	<1	2.07	0.002	0.03	<0.1	1.6	<0.02	0.03	23	0.5	0.05	6.2	1.69	<0.1	0.08
072530	Soil	28.4	40.9	1.45	45.7	0.003	1	2.44	0.004	0.04	<0.1	2.5	<0.02	<0.02	<5	0.4	0.07	6.8	1.51	<0.1	0.05
072531	Soil	12.2	19.3	0.45	26.6	0.004	1	1.15	0.015	0.02	<0.1	0.8	0.02	<0.02	22	0.5	0.06	4.0	0.86	<0.1	0.03
072532	Soil	18.6	30.9	1.14	22.5	0.002	<1	2.24	0.007	0.03	<0.1	2.4	0.07	0.04	6	0.2	0.20	5.9	2.48	<0.1	0.08
072533	Soil	16.8	32.3	1.13	25.4	0.002	<1	2.30	0.009	0.04	<0.1	2.3	0.11	0.05	19	0.3	0.13	6.2	2.80	<0.1	0.03
072534	Soil	18.6	26.9	0.92	15.1	0.001	<1	1.97	0.005	0.05	<0.1	4.0	0.06	<0.02	15	0.3	0.18	5.7	4.47	0.1	0.17
072535	Soil	39.8	37.2	1.53	24.9	0.001	<1	3.16	0.003	0.05	<0.1	3.4	0.03	<0.02	7	0.2	0.11	7.8	3.07	<0.1	0.09
072536	Soil	21.4	34.3	1.30	21.9	0.004	4	2.70	0.002	0.04	<0.1	3.5	0.04	0.04	40	<0.1	0.20	7.6	1.42	<0.1	0.06
072537	Soil	16.7	26.4	1.00	20.5	<0.001	<1	2.08	0.003	0.03	<0.1	3.6	0.03	0.03	27	0.2	0.16	5.4	1.00	<0.1	0.06
072538	Soil	19.1	25.2	0.88	29.9	0.001	1	1.94	0.005	0.03	<0.1	3.7	0.04	0.06	15	0.5	0.13	5.2	1.18	<0.1	0.19
072539	Soil	19.8	23.2	0.73	29.4	<0.001	<1	1.85	0.003	0.04	<0.1	2.3	0.04	0.02	25	0.3	0.06	4.6	0.69	<0.1	0.14
072540	Soil	22.6	35.2	0.95	36.1	0.002	<1	2.28	0.002	0.04	<0.1	2.5	0.03	<0.02	23	0.2	0.06	5.7	1.34	<0.1	0.12
072541	Soil	10.6	17.3	0.51	83.5	0.003	<1	1.47	0.009	0.03	<0.1	1.8	0.03	0.10	34	0.4	0.04	3.8	0.53	<0.1	0.10
072542	Soil	26.3	36.4	1.22	70.9	0.004	<1	2.38	0.003	0.04	<0.1	2.5	0.03	0.02	15	0.2	0.08	6.5	2.34	<0.1	0.08
072543	Soil	22.9	27.3	0.61	39.5	0.004	<1	1.48	0.007	0.03	<0.1	0.7	0.04	0.05	25	0.3	0.07	6.0	3.05	<0.1	0.04
072544	Soil	19.3	30.9	0.85	41.3	0.006	<1	1.92	0.004	0.03	<0.1	1.2	0.03	0.03	27	0.2	0.14	6.3	2.46	<0.1	0.05
072545	Soil	22.0	40.9	1.24	44.4	0.003	<1	2.73	0.004	0.03	<0.1	2.0	0.02	0.02	8	<0.1	0.10	7.1	2.63	<0.1	0.10
072546	Soil	9.3	16.5	0.41	25.4	0.008	<1	1.33	0.021	0.02	<0.1	0.7	0.03	0.03	19	0.2	0.05	4.1	1.74	<0.1	0.02
072547	Soil	18.9	31.2	0.92	32.1	0.005	<1	2.39	0.007	0.03	<0.1	1.4	0.05	0.03	15	0.3	0.13	6.4	2.06	<0.1	0.08



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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**Client:** Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

**Project:** NA-16176  
**Report Date:** September 20, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000238.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
069398	Soil	0.41	6.7	0.9	<0.05	0.7	3.50	30.0	0.02	<1	0.8	12.8	11	<2
069399	Soil	0.13	7.6	1.2	<0.05	0.9	2.37	34.2	0.02	<1	0.6	17.9	10	<2
069400	Soil	0.16	5.5	0.7	<0.05	0.9	0.84	25.4	0.02	<1	0.3	21.0	<10	<2
072521	Soil	0.06	2.1	0.4	<0.05	2.9	13.00	31.9	0.02	2	0.5	42.8	<10	<2
072522	Soil	0.32	4.3	1.3	<0.05	1.7	4.32	21.4	<0.02	2	0.2	23.9	<10	<2
072523	Soil	0.11	3.0	0.4	<0.05	1.3	10.83	41.1	<0.02	<1	0.3	62.9	<10	<2
072524	Soil	0.16	2.9	0.8	<0.05	0.7	9.52	54.0	0.02	2	0.4	43.7	<10	<2
072525	Soil	0.08	2.8	0.9	<0.05	1.9	8.08	57.5	<0.02	<1	1.4	75.9	<10	4
072526	Soil	0.06	2.3	1.8	<0.05	3.5	6.44	52.1	0.04	<1	1.1	74.8	<10	<2
072527	Soil	<0.02	1.7	0.6	<0.05	5.6	5.66	42.6	0.05	<1	0.4	80.9	<10	<2
072528	Soil	0.02	1.8	1.1	<0.05	3.4	5.38	46.3	0.03	2	0.3	84.9	<10	<2
072529	Soil	0.10	4.1	0.5	<0.05	2.4	2.01	47.0	0.02	<1	<0.1	65.8	<10	4
072530	Soil	0.03	2.3	1.0	<0.05	3.2	4.53	53.1	<0.02	<1	0.4	86.9	<10	<2
072531	Soil	0.07	2.7	0.3	<0.05	1.1	0.93	21.5	<0.02	<1	0.1	32.4	<10	<2
072532	Soil	0.11	2.4	0.8	<0.05	2.0	4.72	33.6	<0.02	2	0.2	79.0	<10	6
072533	Soil	0.05	2.4	1.0	<0.05	2.0	4.42	31.9	<0.02	<1	0.7	78.9	<10	<2
072534	Soil	0.04	2.4	0.3	<0.05	11.3	7.49	33.9	0.07	<1	1.3	66.1	<10	<2
072535	Soil	0.07	2.2	1.4	<0.05	4.9	4.63	69.8	0.03	<1	1.0	104.5	<10	5
072536	Soil	0.05	3.1	3.2	<0.05	2.7	5.76	39.5	<0.02	4	0.7	85.4	<10	14
072537	Soil	<0.02	1.2	0.5	<0.05	7.5	6.51	30.3	0.04	<1	0.7	71.1	<10	6
072538	Soil	0.08	2.4	0.6	<0.05	5.8	10.39	36.8	0.04	<1	0.5	63.0	<10	<2
072539	Soil	0.03	2.6	0.6	<0.05	5.5	8.32	37.7	0.02	<1	0.5	58.8	<10	<2
072540	Soil	0.07	3.5	0.4	<0.05	4.2	9.06	44.4	0.02	<1	0.7	74.0	<10	2
072541	Soil	0.32	4.6	0.4	<0.05	2.6	6.40	19.5	0.02	<1	0.5	31.8	<10	<2
072542	Soil	0.17	5.3	0.6	<0.05	3.2	4.50	54.1	0.02	<1	0.7	81.4	<10	<2
072543	Soil	0.20	7.1	1.0	<0.05	1.3	2.07	43.6	<0.02	<1	0.2	36.6	<10	<2
072544	Soil	0.19	5.7	0.5	<0.05	1.6	1.88	36.6	<0.02	<1	0.4	57.9	<10	<2
072545	Soil	0.10	3.1	0.7	<0.05	3.8	3.01	41.8	0.03	<1	0.6	91.8	<10	<2
072546	Soil	0.19	2.5	0.5	<0.05	1.1	1.43	17.3	<0.02	<1	0.2	30.2	<10	<2
072547	Soil	0.19	4.6	0.4	<0.05	3.6	2.73	37.3	0.03	<1	0.4	67.5	<10	<2



Bureau Veritas Commodities Canada Ltd.

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**Project:** NA-16176  
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# CERTIFICATE OF ANALYSIS

WHI16000238.1

Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
072548	Soil	0.53	33.38	34.91	93.3	48	36.9	21.7	787	4.05	59.1	0.9	16.7	7.7	7.4	0.14	0.63	0.46	18	0.09	0.065
072549	Soil	0.73	98.05	78.04	105.2	112	53.4	46.9	872	4.12	148.1	2.1	7.1	10.0	11.2	0.10	0.80	0.40	19	0.15	0.063
072550	Soil	1.08	69.69	47.21	103.2	67	49.2	42.4	1512	4.71	73.6	1.9	15.5	6.3	9.6	0.12	0.84	0.52	20	0.06	0.085
072551	Soil	0.66	123.51	56.74	128.5	197	51.1	32.9	634	4.10	20.6	2.9	4.3	11.2	8.2	0.10	0.31	0.51	10	0.05	0.055
072552	Soil	0.90	44.37	33.51	87.0	271	30.2	11.9	358	5.09	14.5	1.2	2.4	10.4	7.2	0.15	0.73	0.62	19	0.01	0.069
072553	Soil	0.91	39.09	32.82	87.3	494	30.7	12.1	318	4.97	6.9	1.3	2.5	12.2	9.2	0.04	0.39	0.42	19	0.01	0.057
072554	Soil	0.16	5.35	3.65	13.7	87	3.2	1.4	34	0.85	2.6	0.2	<0.2	0.9	4.3	0.02	0.11	0.13	10	0.02	0.019
072555	Soil	0.51	56.02	34.48	106.0	233	43.9	18.4	584	4.81	15.8	2.3	2.1	10.8	6.0	0.09	0.27	0.54	13	0.05	0.064
072556	Soil	0.62	59.47	39.63	110.9	387	42.2	15.2	482	4.77	19.0	1.8	2.0	10.0	8.6	0.07	0.42	0.54	13	0.05	0.070
072557	Soil	0.64	76.25	36.21	121.2	111	54.8	28.7	774	5.07	23.4	1.9	0.2	11.4	7.1	0.06	0.80	0.72	15	0.24	0.051
072558	Soil	0.53	62.65	30.80	108.8	75	46.8	19.8	555	4.60	20.1	2.0	2.0	7.2	11.8	0.08	0.72	0.60	14	0.60	0.057
072559	Soil	0.73	60.43	53.04	104.7	134	42.7	28.9	1269	4.65	31.1	2.7	2.7	6.0	12.6	0.14	0.81	0.65	15	0.28	0.081
072560	Soil	0.71	62.53	38.18	110.7	73	54.1	28.8	950	5.11	25.2	1.7	0.9	9.9	8.3	0.07	1.13	0.62	14	0.28	0.057
072601	Soil	0.53	64.33	51.30	107.9	105	48.2	32.4	704	4.63	14.6	2.2	2.1	16.2	19.5	0.05	0.55	0.62	12	0.18	0.053
072602	Soil	0.46	48.25	30.96	93.0	103	43.2	16.5	368	3.95	14.9	2.3	3.5	12.7	19.4	0.06	0.75	0.41	10	0.25	0.054
072603	Soil	0.64	61.21	39.10	98.2	159	42.3	24.4	476	3.91	22.2	2.2	3.2	14.6	34.3	0.08	0.76	0.47	8	0.55	0.054
072604	Soil	0.47	51.35	36.30	95.7	153	43.6	19.2	345	4.06	27.0	1.5	2.8	10.9	37.0	0.08	0.68	0.51	9	0.64	0.061
072605	Soil	0.65	49.61	36.83	97.5	146	39.6	16.3	286	4.08	37.1	1.5	5.8	11.5	43.0	0.10	0.77	0.47	10	0.75	0.052
072606	Soil	0.53	41.91	47.32	96.3	135	39.1	25.3	708	4.31	19.0	1.2	2.9	13.9	28.3	0.08	0.69	0.47	28	0.26	0.031
072607	Soil	0.49	46.04	29.89	79.6	147	35.7	21.9	484	3.35	26.0	1.0	5.0	10.9	38.8	0.08	0.78	0.70	15	0.90	0.059
072608	Soil	0.45	54.23	38.33	103.1	112	44.5	25.8	630	4.13	16.7	1.3	2.0	14.6	30.6	0.08	0.64	0.43	16	0.55	0.053
072609	Soil	0.50	55.00	44.00	103.3	122	40.1	26.5	654	3.96	19.3	1.2	3.0	12.2	20.3	0.11	1.27	0.52	12	0.45	0.052
072610	Soil	0.60	55.59	26.80	82.7	124	38.7	16.5	631	3.69	18.4	1.1	5.0	10.1	11.8	0.18	0.85	0.39	16	0.34	0.072
072611	Soil	0.38	59.70	35.52	98.8	92	50.9	22.5	1183	4.14	25.9	0.9	23.8	10.4	5.2	0.12	0.40	0.54	21	0.09	0.079
072612	Soil	1.39	73.10	73.47	88.9	64	36.7	29.2	767	4.24	31.5	1.9	3.1	7.4	5.1	0.04	0.79	0.64	20	0.03	0.086
072613	Soil	1.14	112.78	77.94	107.7	86	59.9	46.7	1212	4.98	27.9	2.8	12.6	16.2	7.3	0.09	0.61	0.87	19	0.11	0.061
072614	Soil	1.16	123.38	70.21	144.9	183	59.3	67.9	1725	5.08	98.0	6.8	7.9	19.0	8.5	0.15	0.88	0.69	18	0.09	0.084
072615	Soil	0.58	62.29	38.47	108.4	78	46.7	34.6	824	4.79	26.3	2.6	3.0	7.4	7.2	0.15	0.79	0.44	19	0.05	0.072
072616	Soil	0.64	36.96	34.89	99.3	65	41.3	25.9	1108	4.24	71.1	2.1	21.8	8.1	8.6	0.12	0.68	0.37	21	0.07	0.071
072617	Soil	0.73	43.35	50.42	109.6	74	43.2	65.7	1679	3.25	249.1	2.5	162.6	13.3	10.1	0.26	1.23	0.44	15	0.12	0.075



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510 - 580 Hornby Street  
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Project: NA-16176  
Report Date: September 20, 2016

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# CERTIFICATE OF ANALYSIS WHI16000238.1

	Method	AQ251																				
		Analyte																				
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
	Unit	MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02		
072548	Soil		25.8	31.0	0.90	51.0	0.002	<1	2.14	0.004	0.04	<0.1	1.9	0.03	<0.02	8	<0.1	0.09	6.3	1.06	<0.1	0.07
072549	Soil		20.6	36.6	1.00	55.1	0.004	<1	2.42	0.003	0.03	<0.1	2.1	0.05	<0.02	15	<0.1	0.05	6.2	2.19	<0.1	0.07
072550	Soil		19.5	37.3	0.99	47.5	0.005	<1	2.45	0.004	0.03	<0.1	1.7	0.05	0.02	16	0.2	0.07	6.4	2.19	<0.1	0.10
072551	Soil		46.8	23.6	0.61	18.7	0.001	<1	1.72	0.003	0.04	0.1	1.7	0.05	<0.02	9	0.2	0.12	4.7	5.10	<0.1	<0.02
072552	Soil		28.0	33.4	0.63	21.8	0.005	1	2.21	0.003	0.03	<0.1	1.6	0.05	0.03	61	0.5	0.10	6.4	3.73	<0.1	0.10
072553	Soil		42.3	30.4	0.68	30.0	0.003	<1	2.10	0.004	0.03	<0.1	1.4	0.06	0.02	44	0.3	0.03	6.7	5.13	<0.1	0.05
072554	Soil		7.5	3.7	0.04	16.3	0.008	<1	0.23	0.024	0.02	<0.1	0.3	0.02	<0.02	13	<0.1	<0.02	2.3	0.67	<0.1	<0.02
072555	Soil		45.9	29.2	0.79	17.7	0.002	<1	2.23	0.002	0.04	<0.1	1.9	0.03	<0.02	9	0.2	0.11	5.6	2.94	<0.1	0.06
072556	Soil		43.1	24.8	0.70	11.4	0.001	<1	1.89	0.002	0.03	<0.1	1.5	0.02	<0.02	22	<0.1	0.12	5.2	1.98	<0.1	0.04
072557	Soil		23.2	36.6	1.08	14.5	<0.001	<1	2.50	0.005	0.03	<0.1	3.7	0.03	<0.02	16	0.2	0.11	7.1	2.56	<0.1	0.12
072558	Soil		16.0	32.9	0.96	15.3	<0.001	<1	2.30	0.005	0.03	<0.1	3.4	0.04	0.04	19	0.3	0.10	6.6	1.67	<0.1	0.21
072559	Soil		15.5	30.8	0.80	39.3	0.002	<1	2.27	0.009	0.03	<0.1	2.7	0.05	0.03	26	0.2	0.11	6.3	3.59	<0.1	0.12
072560	Soil		19.9	32.1	0.99	18.4	<0.001	<1	2.28	0.005	0.03	<0.1	3.5	0.03	0.02	16	0.2	0.09	6.2	1.61	<0.1	0.18
072601	Soil		23.2	28.4	0.90	17.9	<0.001	<1	2.07	0.002	0.03	<0.1	2.1	0.03	<0.02	10	<0.1	0.08	5.5	0.52	<0.1	0.10
072602	Soil		26.7	21.4	0.68	23.0	<0.001	<1	1.73	0.002	0.03	<0.1	1.8	0.03	<0.02	18	<0.1	0.05	4.1	0.65	<0.1	0.10
072603	Soil		22.5	19.4	0.59	31.7	<0.001	<1	1.66	0.004	0.04	<0.1	2.1	0.04	0.03	30	0.2	0.06	3.7	0.77	<0.1	0.09
072604	Soil		24.7	18.2	0.59	25.4	0.001	<1	1.53	0.003	0.04	<0.1	2.3	0.04	0.03	42	0.3	0.06	3.4	0.38	<0.1	0.11
072605	Soil		19.5	22.2	0.73	28.2	<0.001	<1	1.70	0.002	0.04	<0.1	2.2	0.03	0.03	21	0.2	0.05	4.2	0.42	<0.1	0.10
072606	Soil		17.1	41.2	1.24	54.6	0.001	<1	2.48	0.002	0.04	<0.1	3.6	0.03	<0.02	19	<0.1	0.04	5.7	0.81	<0.1	0.09
072607	Soil		15.1	30.9	0.83	38.4	<0.001	<1	1.78	0.003	0.04	<0.1	2.4	0.03	0.03	26	0.1	0.05	4.1	0.56	<0.1	0.09
072608	Soil		17.0	34.6	0.97	35.2	<0.001	<1	2.12	0.003	0.04	<0.1	2.4	0.03	0.03	22	0.1	0.04	5.0	0.57	<0.1	0.13
072609	Soil		15.3	27.2	0.82	36.9	<0.001	<1	1.92	0.002	0.04	<0.1	1.9	0.02	0.03	19	0.1	0.05	4.7	0.41	<0.1	0.08
072610	Soil		21.8	28.6	0.94	67.6	0.001	<1	1.90	0.003	0.04	<0.1	3.3	0.03	0.03	23	0.3	0.05	4.6	0.56	<0.1	0.09
072611	Soil		30.7	44.3	1.24	107.4	0.004	<1	2.17	0.003	0.05	<0.1	3.2	0.03	0.02	30	0.1	0.08	5.9	2.34	<0.1	0.04
072612	Soil		23.7	31.5	0.87	29.5	0.006	<1	2.10	0.009	0.04	<0.1	1.7	0.04	0.03	20	0.2	0.08	7.0	2.50	<0.1	0.06
072613	Soil		28.5	43.4	1.36	55.4	0.002	<1	2.59	0.005	0.04	<0.1	2.9	0.02	<0.02	15	0.1	0.11	6.8	2.29	<0.1	0.07
072614	Soil		25.3	36.3	1.05	40.4	0.002	<1	2.57	0.005	0.04	<0.1	3.4	0.03	0.03	43	0.1	0.09	6.8	4.06	<0.1	0.08
072615	Soil		15.1	37.8	1.04	26.2	0.002	<1	2.55	0.005	0.04	<0.1	2.2	0.04	0.03	34	0.2	0.08	7.3	4.74	<0.1	0.18
072616	Soil		21.7	33.2	0.87	46.1	0.005	<1	2.22	0.005	0.04	<0.1	1.9	0.04	0.02	18	0.2	0.06	6.3	2.27	<0.1	0.07
072617	Soil		17.4	23.6	0.61	57.2	0.003	<1	1.65	0.005	0.05	0.3	1.8	0.06	0.03	22	0.2	0.17	4.6	2.47	<0.1	0.05

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.



Bureau Veritas Commodities Canada Ltd.

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**Client:** Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

**Project:** NA-16176  
**Report Date:** September 20, 2016

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**Part:** 3 of 3

# CERTIFICATE OF ANALYSIS

WHI16000238.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
072548	Soil	0.11	5.4	0.4	<0.05	2.0	4.19	50.1	0.02	<1	0.4	62.8	<10	<2
072549	Soil	0.12	3.8	0.3	<0.05	2.7	5.31	41.2	0.02	<1	0.9	72.5	<10	<2
072550	Soil	0.20	4.9	1.0	<0.05	2.8	3.55	39.4	0.03	<1	0.5	78.6	<10	<2
072551	Soil	<0.02	4.2	1.1	<0.05	1.1	3.92	82.4	<0.02	<1	1.0	55.0	<10	<2
072552	Soil	0.42	5.6	0.6	<0.05	3.4	2.23	53.3	0.03	<1	0.5	59.2	<10	<2
072553	Soil	0.23	5.5	0.4	<0.05	2.6	2.28	81.1	<0.02	<1	0.4	56.3	<10	<2
072554	Soil	0.16	1.9	0.3	<0.05	<0.1	0.43	14.4	<0.02	<1	<0.1	2.3	<10	<2
072555	Soil	0.04	3.9	0.3	<0.05	2.0	2.80	81.2	0.02	<1	0.6	74.8	<10	<2
072556	Soil	0.03	3.3	0.9	<0.05	1.7	2.58	77.8	0.02	<1	0.4	62.3	<10	<2
072557	Soil	<0.02	2.1	0.6	<0.05	7.9	6.96	39.6	0.02	<1	0.5	78.9	<10	<2
072558	Soil	0.04	2.1	0.3	<0.05	6.8	6.50	27.3	0.03	<1	0.4	71.7	<10	<2
072559	Soil	0.12	4.3	0.4	<0.05	4.2	6.35	27.5	0.04	<1	0.6	67.7	<10	<2
072560	Soil	0.02	1.9	0.3	<0.05	6.3	6.26	34.1	<0.02	<1	0.3	75.0	<10	<2
072601	Soil	<0.02	1.8	0.4	<0.05	6.6	6.94	43.7	<0.02	<1	0.5	77.9	<10	<2
072602	Soil	0.04	2.4	0.4	<0.05	3.5	6.77	50.6	<0.02	<1	0.7	49.4	<10	<2
072603	Soil	0.05	2.8	0.9	<0.05	4.5	7.84	43.1	0.02	<1	0.6	42.3	<10	<2
072604	Soil	0.06	2.4	0.8	<0.05	4.5	9.27	45.1	<0.02	<1	0.6	38.0	<10	<2
072605	Soil	0.05	2.3	0.3	<0.05	4.2	7.15	36.0	0.02	<1	0.3	45.7	<10	<2
072606	Soil	0.05	4.0	0.5	<0.05	3.7	5.92	34.5	0.03	<1	0.6	60.0	<10	<2
072607	Soil	0.06	2.7	0.5	<0.05	3.7	6.73	29.7	0.03	<1	0.5	39.7	<10	<2
072608	Soil	0.02	2.7	0.8	<0.05	6.3	5.84	31.6	0.02	<1	0.5	63.0	<10	<2
072609	Soil	0.03	2.6	0.6	<0.05	2.9	6.70	28.7	0.02	<1	0.5	55.5	<10	<2
072610	Soil	0.12	4.0	0.8	<0.05	2.3	9.26	40.0	0.02	<1	0.6	56.8	<10	<2
072611	Soil	0.11	5.1	0.6	<0.05	1.6	4.13	59.0	<0.02	<1	0.8	81.8	<10	<2
072612	Soil	0.21	5.7	0.3	<0.05	2.5	2.56	43.7	0.02	<1	0.4	67.0	<10	<2
072613	Soil	0.05	2.6	0.3	<0.05	4.2	5.80	53.3	0.02	<1	0.8	93.7	<10	<2
072614	Soil	0.06	4.2	0.5	<0.05	3.3	7.72	48.0	0.05	<1	1.0	78.3	<10	<2
072615	Soil	0.07	4.2	0.5	<0.05	4.9	2.37	32.2	0.02	<1	0.4	86.2	<10	<2
072616	Soil	0.17	5.7	0.4	<0.05	2.3	3.32	42.3	<0.02	<1	0.4	72.8	<10	<2
072617	Soil	0.12	6.2	0.3	<0.05	2.1	5.85	35.9	0.03	<1	0.6	49.8	<10	<2



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Project: NA-16176

Report Date: September 20, 2016

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# CERTIFICATE OF ANALYSIS

## WHI16000238.1

Method	Analyte	Unit	MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251		
				Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
				ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
				0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
072618	Soil			0.55	56.27	36.65	87.6	95	40.9	27.3	1083	4.20	67.7	2.6	12.6	8.9	10.3	0.08	0.95	0.42	16	0.06	0.065
072619	Soil			0.98	49.46	38.34	87.8	104	36.7	21.2	1283	4.58	36.9	1.8	7.3	7.7	9.3	0.14	1.33	0.50	17	0.05	0.088
072620	Soil			0.89	52.72	32.08	73.1	129	27.1	15.7	597	3.59	64.5	1.4	4.4	2.2	5.2	0.16	0.74	0.54	24	0.02	0.147
072621	Soil			0.50	32.82	22.07	30.5	62	12.2	5.8	219	1.71	14.0	1.6	1.2	0.8	6.7	0.07	0.28	0.22	11	0.03	0.062
072622	Soil			0.82	56.74	47.59	82.4	70	40.0	29.7	663	3.98	22.7	1.2	5.4	7.6	9.6	0.14	0.57	0.36	22	0.14	0.070
072623	Soil			0.43	16.88	13.77	52.2	59	19.0	7.6	437	2.71	19.1	0.6	4.2	1.6	4.2	0.11	0.34	0.27	14	0.02	0.077
072624	Soil			0.56	40.05	27.03	86.0	66	38.5	13.0	394	4.38	22.0	0.9	1.6	6.8	5.7	0.09	0.62	0.53	14	0.08	0.053
072625	Soil			0.64	37.49	25.15	76.7	65	33.6	15.3	589	3.95	18.6	0.9	1.4	5.7	5.0	0.07	0.72	0.46	13	0.05	0.057
072626	Soil			0.69	35.09	30.33	76.7	101	26.7	14.5	954	3.67	34.5	1.4	1.2	5.3	5.0	0.14	0.56	0.49	18	0.02	0.083
072627	Soil			0.79	144.47	84.13	159.2	132	52.9	40.5	645	4.38	25.5	4.1	2.7	13.7	6.1	0.13	0.57	0.57	12	0.07	0.068
072628	Soil			0.24	5.36	5.38	14.8	23	5.3	1.9	70	0.67	3.1	0.3	0.3	<0.1	2.8	0.03	0.07	0.06	8	0.01	0.039
072629	Soil			0.09	2.86	3.14	7.7	21	2.2	1.1	31	0.34	1.3	0.2	<0.2	<0.1	4.1	0.03	0.03	0.03	6	0.02	0.029
072630	Soil			0.57	73.17	34.95	137.4	103	52.5	20.5	450	4.63	28.1	2.3	4.0	12.4	6.0	0.07	0.49	0.42	12	0.07	0.053
072651	Soil			0.74	42.50	39.32	70.4	61	30.2	24.1	849	3.70	165.8	1.3	8.3	3.8	5.8	0.15	0.66	0.41	21	0.02	0.059
072652	Soil			0.50	16.23	15.95	42.7	122	14.9	11.4	623	2.43	17.1	0.6	1.2	0.8	6.0	0.15	0.31	0.26	16	0.03	0.075
072653	Soil			0.48	61.09	28.80	93.9	54	51.9	24.6	803	4.25	36.1	1.8	26.1	10.6	8.2	0.08	0.81	0.37	19	0.16	0.065
072654	Soil			0.77	61.23	59.40	100.5	129	43.1	26.5	863	5.10	18.3	2.6	1.1	8.9	6.1	0.09	0.35	0.51	19	0.11	0.128
072655	Soil			0.82	79.66	45.93	96.2	255	51.6	33.2	1145	4.45	34.4	2.1	7.3	13.2	119.3	0.13	2.50	0.76	9	5.44	0.064
072656	Soil			1.03	46.03	46.44	87.4	88	32.0	24.5	1325	4.44	25.2	1.3	2.6	4.8	11.1	0.17	1.36	0.59	18	0.09	0.112
072657	Soil			0.87	82.29	39.80	101.1	210	50.0	29.5	889	4.62	36.2	3.5	3.3	9.1	8.1	0.11	1.07	0.63	17	0.09	0.076
072658	Soil			1.34	24.85	30.61	72.2	134	28.1	30.0	5798	3.59	10.6	0.9	1.2	2.0	17.8	0.34	0.37	0.43	21	0.17	0.155
072659	Soil			0.95	36.27	36.64	99.5	398	44.8	22.4	960	3.90	59.8	2.7	11.5	13.1	5.0	0.15	0.52	0.34	17	0.04	0.050
072660	Soil			0.59	34.18	30.35	94.1	191	34.0	13.5	563	4.22	58.3	1.7	25.0	7.7	8.7	0.12	0.58	0.45	17	0.02	0.064
072701	Soil			0.65	33.46	25.43	71.4	385	23.2	8.3	300	4.17	12.6	1.1	1.9	11.2	7.2	0.05	0.47	0.41	18	<0.01	0.048
072702	Soil			0.58	21.47	16.55	44.0	133	11.6	4.4	109	2.67	5.8	0.6	1.8	7.5	5.3	0.02	0.31	0.27	11	0.01	0.024
072703	Soil			0.23	5.17	5.54	15.9	39	3.0	1.7	102	0.92	1.9	0.2	0.4	0.7	5.4	0.03	0.09	0.10	10	0.03	0.023
072704	Soil			0.59	33.08	28.30	95.9	69	37.0	16.8	559	4.15	47.6	1.0	3.6	8.4	11.6	0.10	0.53	0.40	16	0.20	0.063
072705	Soil			0.54	42.46	26.68	73.8	81	31.3	9.7	389	4.39	49.8	0.7	0.9	5.8	6.4	0.05	0.61	0.47	24	0.02	0.095
072706	Soil			0.63	31.07	26.01	78.2	369	32.0	13.8	750	5.06	38.7	1.1	2.1	9.8	7.7	0.09	0.70	0.52	23	0.02	0.082
072707	Soil			0.90	58.63	47.42	80.9	166	34.3	23.1	1084	5.23	36.4	1.8	0.5	10.4	6.0	0.07	0.84	0.59	24	0.02	0.090



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Project: NA-16176  
Report Date: September 20, 2016

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**CERTIFICATE OF ANALYSIS**

**WHI16000238.1**

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
072618	Soil	25.1	29.6	0.90	31.1	0.003	2	2.16	0.007	0.03	<0.1	1.7	0.03	<0.02	12	0.2	0.06	5.6	3.05	<0.1	0.04
072619	Soil	20.5	32.6	0.95	37.6	0.003	<1	2.18	0.007	0.05	<0.1	1.6	0.05	0.04	42	0.2	0.08	6.1	2.14	<0.1	0.08
072620	Soil	21.8	29.2	0.49	32.1	0.005	<1	1.52	0.004	0.05	<0.1	1.1	0.07	0.07	48	0.4	0.08	5.8	2.73	<0.1	0.03
072621	Soil	7.7	13.1	0.28	23.7	0.007	<1	1.16	0.023	0.03	<0.1	0.5	0.04	0.05	36	0.3	0.02	3.4	1.04	<0.1	0.02
072622	Soil	20.3	32.7	0.86	40.8	0.005	<1	2.31	0.005	0.05	<0.1	1.9	0.05	0.03	31	0.2	0.04	6.0	1.84	<0.1	0.04
072623	Soil	19.6	19.1	0.43	25.0	0.004	<1	1.14	0.008	0.03	<0.1	0.6	0.03	0.04	22	0.2	0.04	4.3	1.07	<0.1	<0.02
072624	Soil	23.5	27.8	0.86	18.3	0.001	<1	2.06	0.004	0.03	<0.1	1.4	0.03	0.02	14	0.2	0.08	5.3	1.56	<0.1	0.10
072625	Soil	23.7	23.1	0.67	29.5	0.001	<1	1.65	0.008	0.03	<0.1	1.7	0.03	0.02	30	0.1	0.07	4.6	1.63	<0.1	0.07
072626	Soil	21.2	22.9	0.48	34.5	0.005	1	1.51	0.009	0.04	<0.1	1.3	0.05	0.02	24	0.2	0.09	5.3	2.33	<0.1	0.05
072627	Soil	60.3	24.3	0.65	18.5	0.001	<1	1.76	0.003	0.04	<0.1	1.9	0.04	<0.02	13	0.1	0.13	4.3	4.36	<0.1	0.06
072628	Soil	7.3	4.2	0.05	12.3	0.002	<1	0.20	0.020	0.02	<0.1	<0.1	<0.02	<0.02	15	<0.1	<0.02	1.0	0.41	<0.1	<0.02
072629	Soil	2.8	2.1	0.03	14.2	0.002	<1	0.11	0.024	0.02	<0.1	0.1	<0.02	<0.02	13	<0.1	<0.02	0.5	0.33	<0.1	<0.02
072630	Soil	50.4	26.2	0.73	13.2	0.001	<1	1.88	0.001	0.02	<0.1	1.6	0.02	<0.02	9	<0.1	0.10	4.9	1.32	<0.1	0.04
072651	Soil	21.2	29.4	0.60	37.3	0.007	<1	1.85	0.007	0.03	<0.1	1.1	0.05	0.03	20	0.2	0.06	5.5	1.92	<0.1	0.04
072652	Soil	14.8	14.9	0.31	40.7	0.005	1	1.27	0.014	0.03	<0.1	0.4	0.04	0.04	29	0.1	0.05	4.8	1.22	<0.1	<0.02
072653	Soil	25.9	38.3	1.23	52.6	0.002	<1	2.18	0.004	0.04	<0.1	2.7	<0.02	<0.02	9	<0.1	0.08	6.0	1.59	<0.1	0.05
072654	Soil	27.7	40.2	1.04	20.4	0.002	1	2.43	0.006	0.04	<0.1	2.1	0.03	0.03	16	<0.1	0.06	7.2	3.76	<0.1	0.28
072655	Soil	26.9	18.0	0.59	22.9	<0.001	<1	1.37	0.004	0.03	<0.1	5.9	0.04	<0.02	24	<0.1	0.13	3.5	1.60	<0.1	0.09
072656	Soil	19.9	23.0	0.54	79.6	0.002	<1	1.82	0.007	0.03	<0.1	1.8	0.07	0.04	21	0.3	0.09	5.6	2.40	<0.1	0.10
072657	Soil	27.6	31.4	0.89	27.2	0.004	<1	2.17	0.004	0.05	<0.1	2.7	0.04	<0.02	29	0.3	0.10	5.5	1.93	<0.1	0.10
072658	Soil	18.2	28.5	0.62	201.3	0.004	1	1.77	0.006	0.07	<0.1	0.9	0.09	0.06	22	0.3	0.05	5.4	1.66	<0.1	0.06
072659	Soil	33.6	22.7	0.44	24.8	0.004	<1	1.46	0.003	0.04	0.1	1.9	0.05	<0.02	47	0.2	0.05	3.8	1.52	<0.1	0.04
072660	Soil	34.2	23.2	0.56	33.3	0.005	<1	1.57	0.004	0.04	<0.1	1.4	0.04	<0.02	30	0.2	0.08	5.0	1.63	<0.1	0.02
072701	Soil	35.0	23.9	0.45	38.7	0.004	<1	1.58	0.009	0.05	0.2	1.4	0.07	<0.02	25	0.2	0.05	5.4	3.48	<0.1	0.04
072702	Soil	21.5	13.2	0.30	21.2	0.006	<1	0.96	0.015	0.03	<0.1	0.8	0.04	<0.02	21	<0.1	0.03	3.6	1.94	<0.1	0.03
072703	Soil	7.7	4.5	0.07	22.2	0.013	<1	0.35	0.023	0.03	<0.1	0.3	<0.02	<0.02	25	<0.1	<0.02	2.3	0.61	<0.1	<0.02
072704	Soil	26.8	29.6	0.91	31.4	0.003	<1	2.02	0.004	0.06	<0.1	1.6	0.03	0.02	18	<0.1	0.09	5.3	1.01	<0.1	0.06
072705	Soil	24.5	28.5	0.79	24.2	0.006	<1	1.79	0.007	0.03	<0.1	1.3	0.03	0.02	28	0.1	0.08	6.7	1.71	<0.1	0.03
072706	Soil	34.8	34.9	0.77	33.1	0.008	<1	2.24	0.004	0.03	<0.1	1.6	0.04	0.03	57	0.2	0.07	6.9	1.87	<0.1	0.05
072707	Soil	26.2	36.4	0.83	31.7	0.004	<1	2.37	0.006	0.04	<0.1	1.7	0.06	0.02	37	0.5	0.07	7.9	2.87	<0.1	0.10



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**Project:** NA-16176  
**Report Date:** September 20, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000238.1

	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
072618	Soil	0.07	3.1	0.3	<0.05	2.0	3.21	45.5	0.03	<1	0.5	68.1	<10	<2
072619	Soil	0.09	4.6	0.5	<0.05	3.4	2.41	38.2	0.03	<1	0.5	70.4	<10	<2
072620	Soil	0.35	7.8	0.4	<0.05	1.4	2.83	41.6	0.03	<1	0.5	33.5	<10	<2
072621	Soil	0.19	3.0	0.6	<0.05	1.2	1.51	14.3	<0.02	<1	0.4	19.0	<10	<2
072622	Soil	0.23	5.9	0.3	<0.05	1.9	3.52	40.9	0.03	<1	0.5	72.1	<10	<2
072623	Soil	0.15	5.9	0.7	<0.05	1.1	1.47	36.5	<0.02	<1	<0.1	30.7	<10	<2
072624	Soil	0.07	3.4	0.3	<0.05	3.9	2.48	44.1	<0.02	<1	0.5	62.0	<10	<2
072625	Soil	0.08	4.2	0.5	<0.05	2.6	3.18	44.4	0.03	<1	0.4	50.8	<10	<2
072626	Soil	0.20	6.3	0.4	<0.05	2.1	2.31	39.2	<0.02	<1	0.3	38.4	<10	<2
072627	Soil	0.02	3.8	0.4	<0.05	2.1	3.87	111.1	0.02	<1	1.3	58.8	<10	<2
072628	Soil	0.03	1.1	0.5	<0.05	0.1	0.39	13.1	<0.02	<1	<0.1	3.2	<10	<2
072629	Soil	<0.02	0.8	0.3	<0.05	<0.1	0.22	5.0	<0.02	<1	<0.1	1.2	<10	<2
072630	Soil	<0.02	2.3	0.1	<0.05	2.0	2.81	93.6	<0.02	<1	0.3	64.0	<10	<2
072651	Soil	0.25	4.2	0.3	<0.05	1.8	2.48	40.9	<0.02	<1	0.5	47.9	<10	<2
072652	Soil	0.17	5.4	0.2	<0.05	0.9	1.49	27.8	<0.02	<1	0.3	23.7	<10	<2
072653	Soil	0.02	2.1	0.2	<0.05	2.5	4.05	49.8	<0.02	<1	0.4	81.0	<10	<2
072654	Soil	0.06	3.9	0.2	<0.05	6.6	3.23	51.6	0.03	<1	0.6	81.6	<10	<2
072655	Soil	0.02	2.1	0.3	<0.05	4.9	17.56	49.5	0.03	1	0.4	41.2	<10	<2
072656	Soil	0.16	6.3	0.3	<0.05	4.8	3.93	38.5	0.04	<1	0.3	44.3	<10	<2
072657	Soil	0.09	4.1	0.3	<0.05	3.2	9.20	54.0	0.03	<1	0.7	66.2	<10	<2
072658	Soil	0.17	13.4	0.3	<0.05	2.0	2.61	35.8	0.02	<1	0.3	38.3	<10	<2
072659	Soil	0.15	4.5	0.3	<0.05	2.4	4.26	66.8	<0.02	<1	0.4	41.5	<10	<2
072660	Soil	0.21	5.8	0.3	<0.05	1.1	3.05	63.5	<0.02	<1	0.3	42.7	<10	<2
072701	Soil	0.23	6.6	0.3	<0.05	2.6	1.88	65.0	<0.02	<1	0.2	35.9	<10	<2
072702	Soil	0.18	3.7	0.1	<0.05	3.0	0.95	38.0	<0.02	<1	0.2	23.0	<10	<2
072703	Soil	0.20	2.4	0.2	<0.05	0.1	0.42	13.8	<0.02	<1	<0.1	4.5	<10	<2
072704	Soil	0.13	4.5	0.5	<0.05	1.8	3.38	50.3	<0.02	<1	0.4	67.3	<10	<2
072705	Soil	0.23	4.2	0.2	<0.05	1.3	1.75	45.9	<0.02	<1	0.2	53.9	<10	<2
072706	Soil	0.38	5.3	0.3	<0.05	2.6	2.48	65.3	0.02	<1	0.4	57.7	<10	<2
072707	Soil	0.26	5.2	0.3	<0.05	3.7	2.81	47.7	0.03	<1	0.4	59.4	<10	<2



CERTIFICATE OF ANALYSIS WHI16000238.1

Table with columns: Method Analyte, Unit MDL, and 20 elements (Mo, Cu, Pb, Zn, Ag, Ni, Co, Mn, Fe, As, U, Au, Th, Sr, Cd, Sb, Bi, V, Ca, P) with values for 34 soil samples (072708 to 072757).

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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# CERTIFICATE OF ANALYSIS

## WHI16000238.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
		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
072708	Soil	18.2	25.3	0.60	22.7	0.006	<1	1.58	0.008	0.03	<0.1	0.9	0.05	0.03	26	0.2	0.05	5.7	1.18	<0.1	0.03	
072709	Soil	24.7	35.6	1.11	29.7	0.003	<1	2.49	0.004	0.04	<0.1	1.9	0.03	<0.02	9	0.1	0.07	6.2	1.01	<0.1	0.06	
072710	Soil	17.0	26.3	0.70	83.5	0.006	<1	1.85	0.006	0.04	<0.1	1.8	0.07	0.09	30	0.5	0.10	4.9	1.12	0.1	0.14	
072711	Soil	20.8	30.6	0.78	32.8	0.004	<1	1.84	0.004	0.03	<0.1	2.2	0.03	0.02	6	0.5	0.07	5.4	1.46	<0.1	0.03	
072712	Soil	20.4	34.6	0.89	37.4	0.003	3	2.23	0.005	0.04	<0.1	3.7	0.05	<0.02	11	0.3	0.23	7.2	2.29	<0.1	0.09	
072713	Soil	23.9	33.8	0.93	30.2	0.002	<1	2.00	0.003	0.03	<0.1	2.5	0.03	<0.02	29	0.1	0.08	5.4	0.78	<0.1	0.06	
072714	Soil	24.8	31.0	0.92	33.9	0.002	2	2.02	0.003	0.03	<0.1	2.4	0.03	<0.02	22	0.5	0.14	5.6	0.87	0.2	0.06	
072715	Soil	24.7	28.9	0.71	62.5	0.002	<1	1.76	0.003	0.04	0.2	2.5	0.06	0.03	68	<0.1	0.07	4.8	1.51	<0.1	0.04	
072716	Soil	28.7	35.9	1.09	32.7	0.002	<1	2.34	0.003	0.03	<0.1	2.2	0.02	<0.02	7	0.1	<0.02	6.9	0.71	<0.1	0.09	
072717	Soil	33.7	29.2	0.89	28.1	0.002	1	1.99	0.004	0.04	<0.1	4.0	<0.02	<0.02	27	0.2	0.10	5.9	1.10	<0.1	0.04	
072718	Soil	21.2	12.0	0.30	23.2	0.005	2	0.78	0.010	0.05	<0.1	0.7	0.03	<0.02	33	<0.1	<0.02	3.8	0.92	<0.1	<0.02	
072719	Soil	24.2	30.2	0.83	40.2	0.003	1	2.09	0.008	0.04	<0.1	2.0	0.05	<0.02	39	<0.1	0.12	5.8	1.48	<0.1	0.02	
072720	Soil	30.4	35.8	1.03	33.6	0.003	<1	2.28	0.003	0.04	<0.1	2.2	0.03	<0.02	27	<0.1	0.11	6.5	0.95	0.2	0.10	
072661	Soil	34.5	29.7	0.72	28.5	0.004	3	2.03	0.003	0.04	0.1	1.6	0.05	<0.02	13	0.2	0.12	6.6	1.77	<0.1	0.09	
072662	Soil	35.7	29.6	0.90	22.3	0.002	<1	2.33	0.003	0.04	<0.1	2.4	0.05	<0.02	<5	<0.1	0.12	5.9	4.42	<0.1	0.04	
072663	Soil	32.0	25.7	0.70	18.7	0.004	<1	1.71	0.003	0.03	<0.1	1.3	0.03	<0.02	13	0.3	0.13	4.5	0.84	<0.1	0.09	
072664	Soil	32.2	32.1	0.94	24.4	0.003	<1	2.15	0.002	0.03	<0.1	1.7	0.04	<0.02	18	0.4	0.06	5.8	0.83	<0.1	0.05	
072665	Soil	25.6	31.3	1.02	29.6	0.001	2	2.36	0.003	0.03	<0.1	2.3	0.03	<0.02	<5	0.2	0.07	7.4	1.15	0.1	0.19	
072666	Soil	14.1	20.8	0.49	27.9	0.006	1	1.47	0.014	0.03	<0.1	1.5	0.03	0.03	20	<0.1	0.10	4.8	2.03	<0.1	0.10	
072667	Soil	17.0	23.9	0.71	25.4	0.003	<1	1.80	0.013	0.03	<0.1	1.8	0.04	<0.02	30	0.5	0.13	5.3	1.46	<0.1	0.18	
072668	Soil	30.3	31.4	0.83	15.4	0.002	<1	2.10	0.003	0.03	<0.1	2.0	0.06	<0.02	41	0.6	0.05	6.8	0.98	<0.1	0.08	
072669	Soil	33.1	19.6	0.49	30.0	0.002	2	1.33	0.003	0.04	<0.1	1.6	0.15	<0.02	21	<0.1	0.05	4.2	1.21	<0.1	0.02	
072670	Soil	25.8	20.8	0.66	29.8	0.001	<1	1.56	0.004	0.03	<0.1	5.1	0.05	<0.02	50	0.8	0.17	4.3	2.33	<0.1	0.12	
072751	Soil	31.1	22.3	0.41	71.8	0.004	<1	1.50	0.004	0.06	0.2	0.8	0.06	0.03	32	<0.1	0.19	6.8	1.85	<0.1	0.05	
072752	Soil	34.4	20.9	0.42	33.9	0.004	<1	1.32	0.003	0.04	0.1	1.2	0.04	0.02	32	0.2	0.09	5.8	1.38	<0.1	0.03	
072753	Soil	36.2	25.1	0.57	23.6	0.007	<1	1.82	0.004	0.05	<0.1	1.3	0.04	<0.02	41	0.2	0.11	6.0	1.39	<0.1	0.05	
072754	Soil	34.3	28.1	0.66	27.5	0.003	<1	2.01	0.003	0.05	0.2	1.6	0.07	<0.02	24	0.4	0.11	5.3	1.52	<0.1	0.16	
072755	Soil	39.5	26.5	0.36	36.2	0.011	<1	1.61	0.006	0.05	0.2	1.2	0.04	0.03	57	0.7	0.08	7.2	3.11	<0.1	<0.02	
072756	Soil	41.7	20.3	0.30	22.3	0.003	<1	1.15	0.003	0.03	0.3	1.5	0.07	<0.02	39	<0.1	0.15	2.9	2.03	<0.1	0.06	
072757	Soil	6.5	4.4	0.05	25.3	0.014	<1	0.74	0.023	0.03	<0.1	0.4	0.03	0.02	47	0.1	0.02	2.9	0.56	<0.1	0.02	



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# CERTIFICATE OF ANALYSIS

WHI16000238.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
072708	Soil	0.24	4.6	0.2	<0.05	0.8	1.62	34.1	<0.02	<1	0.1	38.7	<10	<2
072709	Soil	0.05	2.9	0.5	<0.05	2.9	3.17	46.6	<0.02	<1	0.4	82.4	<10	<2
072710	Soil	0.31	6.0	0.1	<0.05	4.9	8.34	31.8	0.03	<1	<0.1	53.8	<10	5
072711	Soil	0.18	4.8	0.5	<0.05	3.1	3.28	39.5	0.03	<1	0.4	59.1	<10	<2
072712	Soil	0.12	3.9	<0.1	<0.05	4.3	4.68	38.9	0.05	<1	0.7	71.9	<10	4
072713	Soil	0.05	2.7	0.3	<0.05	2.7	4.13	43.6	0.05	<1	0.5	69.4	<10	<2
072714	Soil	0.07	2.9	0.3	<0.05	2.9	4.74	45.9	<0.02	4	0.3	70.3	<10	<2
072715	Soil	0.06	4.2	0.3	<0.05	2.5	4.42	46.3	0.03	<1	0.2	58.1	<10	<2
072716	Soil	0.04	2.6	<0.1	<0.05	3.6	3.74	52.4	<0.02	<1	0.5	83.0	<10	<2
072717	Soil	0.03	2.8	0.6	<0.05	4.9	9.23	58.5	<0.02	3	0.5	64.6	<10	4
072718	Soil	0.15	4.4	0.1	<0.05	0.7	1.02	39.1	<0.02	<1	<0.1	22.2	<10	2
072719	Soil	0.09	4.5	0.3	<0.05	2.3	3.66	45.7	<0.02	<1	<0.1	64.7	<10	2
072720	Soil	0.06	3.9	0.2	<0.05	1.8	3.31	55.8	0.02	2	1.0	77.7	<10	<2
072661	Soil	0.18	6.7	0.4	<0.05	3.7	2.93	62.2	0.02	2	<0.1	65.4	<10	<2
072662	Soil	<0.02	3.7	0.3	<0.05	3.6	5.03	63.2	0.02	<1	0.6	76.5	<10	<2
072663	Soil	0.13	3.5	0.1	<0.05	2.6	2.29	57.5	<0.02	<1	0.2	51.6	<10	3
072664	Soil	0.09	3.3	0.2	<0.05	2.2	3.17	57.4	<0.02	<1	0.3	74.0	<10	3
072665	Soil	0.08	4.8	0.4	<0.05	4.6	2.64	46.9	<0.02	<1	0.3	73.4	<10	4
072666	Soil	0.11	3.3	0.3	<0.05	2.2	3.70	26.4	<0.02	<1	<0.1	38.5	<10	<2
072667	Soil	0.10	3.0	<0.1	<0.05	4.1	3.60	32.3	0.03	<1	<0.1	53.9	<10	5
072668	Soil	0.15	4.2	0.1	<0.05	2.9	2.13	57.7	0.03	<1	0.4	66.4	<10	<2
072669	Soil	0.03	3.5	0.2	<0.05	0.9	5.34	62.6	<0.02	<1	0.5	39.3	<10	<2
072670	Soil	<0.02	2.1	0.5	<0.05	7.2	12.26	47.2	0.03	<1	0.3	47.3	12	3
072751	Soil	0.31	11.7	0.5	<0.05	1.2	1.86	55.3	<0.02	<1	0.2	36.7	<10	3
072752	Soil	0.28	8.1	0.2	<0.05	0.9	1.77	60.7	0.03	<1	<0.1	31.1	<10	3
072753	Soil	0.32	6.5	<0.1	<0.05	1.7	1.98	63.2	0.03	<1	0.3	49.2	<10	3
072754	Soil	0.15	4.9	0.2	<0.05	4.0	2.10	62.4	<0.02	<1	0.3	59.8	<10	<2
072755	Soil	0.40	9.0	0.8	<0.05	0.8	2.38	70.9	0.02	6	0.1	35.0	<10	<2
072756	Soil	0.11	4.2	0.2	<0.05	4.5	2.23	78.2	<0.02	2	<0.1	24.4	<10	3
072757	Soil	0.30	3.1	0.2	<0.05	0.7	0.70	12.3	<0.02	<1	0.4	3.7	<10	<2



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# CERTIFICATE OF ANALYSIS

## WHI16000238.1

	Method	AQ251																			
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Analyte	Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
	MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
072758	Soil	0.36	6.40	8.22	21.5	175	5.1	3.3	97	1.24	4.1	0.4	<0.2	2.7	5.2	0.02	0.18	0.16	13	0.02	0.027
072759	Soil	0.47	29.48	23.08	86.8	109	39.9	13.8	313	4.07	32.1	1.0	19.6	10.4	6.0	0.05	0.40	0.31	14	0.02	0.028
072760	Soil	0.54	34.89	21.63	79.3	171	39.2	16.0	300	4.08	23.8	0.9	11.7	9.6	7.5	0.02	0.45	0.33	18	0.02	0.039
070121	Soil	0.68	66.97	39.65	83.6	188	50.6	32.9	404	3.99	16.3	5.9	3.3	15.8	270.8	0.13	0.73	0.43	8	7.97	0.095
070122	Soil	0.89	66.99	49.13	73.0	216	49.6	34.8	498	4.26	32.3	2.7	8.8	18.8	24.6	0.09	2.74	0.65	5	0.47	0.047
070123	Soil	1.32	23.05	25.85	62.8	80	26.4	11.9	254	3.03	5.8	1.5	1.1	9.3	99.0	0.06	0.58	0.17	4	3.19	0.040
070124	Soil	2.58	41.85	31.47	92.4	145	49.8	23.1	246	3.73	6.1	2.5	<0.2	14.0	78.8	0.05	0.87	0.32	8	2.45	0.038
070125	Soil	0.92	106.63	62.67	111.2	113	65.7	75.8	1295	4.57	16.9	5.1	0.3	21.0	28.3	0.15	1.06	0.42	16	0.13	0.047
070126	Soil	0.57	140.62	143.58	138.4	195	51.8	76.9	1161	4.28	9.1	2.0	2.2	18.3	10.0	0.07	0.21	0.72	17	0.09	0.031
070127	Soil	0.63	38.69	19.89	72.3	85	39.0	57.7	1365	3.35	96.7	4.2	29.2	20.1	12.0	0.11	0.63	0.30	12	0.12	0.066
070128	Soil	0.38	79.66	85.52	94.6	137	40.8	59.0	1093	3.73	17.9	1.8	4.9	14.5	16.5	0.08	0.33	0.44	14	0.23	0.043
070129	Soil	0.43	55.41	51.90	94.5	137	43.5	36.2	659	4.12	18.2	1.7	6.2	14.0	22.3	0.07	0.82	0.42	14	0.23	0.060
070130	Soil	0.46	59.74	49.14	95.6	198	44.6	34.2	636	4.13	27.8	1.6	9.7	14.5	24.8	0.08	1.02	0.50	12	0.26	0.057
072975	Soil	0.62	17.18	21.04	50.8	186	12.6	5.8	134	2.65	29.4	0.6	1.0	5.7	5.7	0.21	0.41	0.42	26	0.02	0.037
072976	Soil	0.58	28.64	14.90	99.0	240	27.2	11.5	290	4.08	31.2	0.6	2.0	7.2	5.4	0.09	0.44	0.37	19	0.02	0.036
072977	Soil	0.70	42.73	22.61	92.4	155	37.5	12.3	530	4.61	56.6	0.8	9.0	8.5	8.7	0.09	0.91	0.40	17	0.03	0.053
072978	Soil	0.50	33.62	28.55	109.4	71	47.6	15.6	553	4.14	58.5	1.1	11.4	9.4	12.0	0.12	0.61	0.43	16	0.15	0.050
072979	Soil	0.49	39.17	21.78	91.6	52	40.9	15.4	617	4.18	35.4	1.0	6.4	9.7	7.8	0.07	0.59	0.36	14	0.10	0.039
072980	Soil	0.31	40.53	28.34	97.9	137	44.0	14.8	487	4.15	36.9	3.3	7.6	8.4	20.7	0.08	0.40	0.52	15	0.34	0.045
072501	Soil	0.77	47.23	102.18	104.4	220	136.8	37.6	2279	6.39	5.8	0.4	19.2	5.0	27.9	0.25	0.40	0.26	79	1.12	0.134
072502	Soil	0.58	23.53	21.00	90.6	25	69.7	22.9	850	4.27	9.7	0.8	2.6	7.9	13.9	0.12	0.43	0.27	36	0.29	0.129
072503	Soil	0.54	75.85	20.37	88.7	13	66.6	26.6	920	4.33	5.0	0.6	1.4	13.4	9.5	0.07	0.23	0.40	29	0.20	0.101
072504	Soil	0.46	32.11	9.22	63.7	21	26.5	12.2	254	3.08	3.8	0.8	2.2	1.0	4.7	0.06	0.18	0.44	19	0.04	0.060
072505	Soil	2.51	119.81	45.75	92.4	112	53.3	62.8	3451	4.05	78.7	2.2	1.8	17.0	4.0	0.18	0.39	0.50	16	0.06	0.061
072506	Soil	0.69	28.98	27.59	94.8	45	39.3	14.1	514	4.13	31.4	0.8	3.8	8.5	6.6	0.13	0.51	0.32	22	0.06	0.042
072507	Soil	0.43	34.54	26.16	53.6	48	18.4	10.2	310	2.37	17.3	1.1	1.6	1.8	9.8	0.05	0.37	0.23	15	0.08	0.075
072508	Soil	0.54	54.04	66.61	92.8	63	38.4	45.0	960	3.72	8.7	2.1	0.8	14.8	11.6	0.05	0.34	0.42	15	0.07	0.052
072509	Soil	0.50	40.79	31.60	76.5	57	30.3	19.3	594	3.39	10.5	1.7	0.9	7.3	14.6	0.05	0.46	0.38	18	0.07	0.072
072510	Soil	0.47	33.03	25.57	50.5	49	19.5	16.2	496	2.18	7.7	1.1	0.6	3.7	7.3	0.04	0.30	0.25	14	0.07	0.070



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**Project:** NA-16176  
**Report Date:** September 20, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000238.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.1
072758	Soil	14.1	6.2	0.09	34.3	0.008	<1	0.71	0.018	0.03	0.2	0.6	0.03	<0.02	24	0.5	0.05	3.9	0.77	<0.1	<0.02
072759	Soil	31.8	24.9	0.65	28.2	0.003	<1	1.69	0.004	0.05	0.1	1.4	0.05	<0.02	36	<0.1	0.05	4.7	1.59	0.2	<0.02
072760	Soil	32.0	25.0	0.62	34.2	0.003	<1	1.92	0.004	0.05	0.2	1.5	0.05	<0.02	33	<0.1	0.06	5.3	1.23	<0.1	0.02
070121	Soil	13.0	11.9	0.48	31.9	<0.001	<1	1.17	0.004	0.06	<0.1	3.1	0.05	0.18	36	0.8	0.10	2.2	2.58	<0.1	0.18
070122	Soil	8.2	8.0	0.35	23.6	<0.001	<1	0.85	0.002	0.03	<0.1	2.2	0.03	0.14	14	<0.1	0.10	2.1	0.72	<0.1	0.20
070123	Soil	8.4	6.4	0.51	30.0	<0.001	<1	0.99	0.002	0.04	<0.1	1.7	<0.02	0.10	34	<0.1	0.07	1.3	0.65	<0.1	0.17
070124	Soil	16.7	16.1	0.73	31.0	<0.001	<1	1.43	0.003	0.06	<0.1	2.3	0.04	0.12	46	<0.1	0.07	2.8	2.02	<0.1	0.13
070125	Soil	12.2	33.9	1.02	32.2	<0.001	<1	2.38	0.007	0.04	<0.1	2.2	0.06	0.05	15	<0.1	0.08	5.7	1.48	<0.1	0.18
070126	Soil	23.3	29.7	1.00	45.8	<0.001	<1	2.45	0.003	0.03	<0.1	1.9	0.04	<0.02	12	0.2	0.08	6.0	1.69	<0.1	0.06
070127	Soil	30.7	16.6	0.49	41.2	0.002	1	1.80	0.006	0.05	<0.1	2.6	0.05	0.04	77	0.1	0.04	4.1	1.37	<0.1	0.05
070128	Soil	18.1	24.6	0.89	54.2	<0.001	<1	2.13	0.005	0.03	<0.1	1.8	0.03	<0.02	6	<0.1	0.05	5.0	0.95	<0.1	0.11
070129	Soil	12.7	25.9	0.89	33.9	<0.001	<1	2.10	0.003	0.03	<0.1	2.0	0.02	0.02	21	<0.1	0.05	5.0	0.59	<0.1	0.13
070130	Soil	14.7	24.0	0.85	32.8	<0.001	1	1.95	0.003	0.03	<0.1	2.0	0.03	<0.02	17	<0.1	0.07	5.1	0.63	<0.1	0.11
072975	Soil	31.3	12.7	0.18	34.7	0.005	1	1.18	0.009	0.03	<0.1	1.1	0.06	<0.02	19	<0.1	0.07	5.6	1.21	<0.1	0.03
072976	Soil	33.8	23.1	0.54	25.1	0.003	<1	1.66	0.006	0.03	<0.1	1.3	0.05	<0.02	17	0.1	0.07	5.8	2.11	<0.1	0.03
072977	Soil	38.3	28.5	0.74	35.3	0.003	<1	1.80	0.004	0.05	<0.1	1.7	0.03	<0.02	20	0.1	0.09	5.1	2.11	<0.1	0.05
072978	Soil	34.1	27.9	0.77	50.9	0.001	1	1.92	0.008	0.07	<0.1	2.3	0.04	<0.02	15	<0.1	0.07	5.2	1.26	<0.1	0.06
072979	Soil	39.1	28.9	0.83	17.6	0.003	<1	1.92	0.006	0.04	<0.1	2.2	<0.02	<0.02	20	<0.1	0.06	5.1	0.86	<0.1	0.03
072980	Soil	25.3	31.2	0.87	37.4	0.002	1	2.12	0.006	0.04	<0.1	2.6	0.04	0.03	20	0.4	0.04	5.9	1.36	<0.1	0.12
072501	Soil	23.2	211.9	3.30	178.4	0.006	1	4.18	0.006	0.05	<0.1	17.0	0.03	<0.02	39	<0.1	0.06	10.5	2.45	0.1	0.06
072502	Soil	25.9	78.6	1.17	49.4	0.013	1	2.04	0.004	0.04	<0.1	5.6	0.04	<0.02	14	<0.1	0.04	5.3	0.89	<0.1	0.05
072503	Soil	28.9	59.8	1.54	52.1	0.007	<1	2.62	0.003	0.02	<0.1	2.8	<0.02	<0.02	8	<0.1	0.06	6.9	1.27	<0.1	0.05
072504	Soil	18.1	19.1	0.62	31.3	0.009	<1	1.25	0.007	0.03	<0.1	0.5	0.04	0.03	15	0.2	0.11	4.3	1.71	<0.1	<0.02
072505	Soil	48.5	38.1	1.00	47.2	0.001	<1	2.38	0.007	0.03	<0.1	3.0	0.03	<0.02	18	<0.1	0.08	5.8	3.81	<0.1	0.06
072506	Soil	27.2	31.6	0.93	23.0	0.011	<1	2.19	0.003	0.03	0.1	1.6	0.04	<0.02	10	<0.1	0.05	5.7	0.88	<0.1	0.03
072507	Soil	14.8	16.0	0.39	22.0	0.009	<1	1.23	0.014	0.03	<0.1	0.8	0.04	0.03	22	0.2	0.03	3.7	1.56	<0.1	0.02
072508	Soil	23.3	25.2	0.79	26.8	0.003	<1	1.97	0.009	0.03	<0.1	1.6	0.04	<0.02	11	<0.1	0.06	5.3	0.85	<0.1	0.04
072509	Soil	19.0	23.0	0.67	29.1	0.004	<1	1.77	0.011	0.03	<0.1	1.4	0.04	0.02	15	0.1	0.04	5.0	0.80	<0.1	0.09
072510	Soil	13.2	15.3	0.42	21.1	0.010	<1	1.30	0.016	0.03	<0.1	1.1	0.04	0.02	16	0.1	0.03	3.5	0.64	<0.1	0.06



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**Project:** NA-16176  
**Report Date:** September 20, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000238.1

Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
072758	Soil	0.47	4.1	0.2	<0.05	0.7	0.95	27.1	<0.02	<1	0.5	7.7	<10	<2
072759	Soil	0.17	5.2	0.3	<0.05	1.1	2.12	58.8	<0.02	<1	0.2	48.7	<10	3
072760	Soil	0.24	7.7	0.3	<0.05	1.7	2.18	59.0	<0.02	<1	0.7	53.0	10	3
070121	Soil	0.03	3.0	0.3	<0.05	17.1	9.93	25.3	<0.02	<1	0.8	24.3	14	<2
070122	Soil	<0.02	1.7	0.2	<0.05	16.5	8.87	16.3	0.03	<1	0.6	19.8	<10	<2
070123	Soil	0.03	1.9	0.2	<0.05	12.2	6.54	17.6	<0.02	<1	0.2	15.3	<10	<2
070124	Soil	<0.02	3.4	0.4	<0.05	14.4	7.43	32.5	<0.02	3	0.7	43.5	<10	4
070125	Soil	<0.02	2.5	0.4	<0.05	12.9	6.31	21.2	<0.02	2	0.7	86.7	<10	2
070126	Soil	0.03	3.3	0.2	<0.05	5.5	8.43	40.5	0.03	<1	1.3	84.8	<10	<2
070127	Soil	0.08	5.4	0.7	<0.05	3.1	12.24	63.9	0.02	<1	0.6	40.2	<10	<2
070128	Soil	<0.02	2.2	0.6	<0.05	9.0	6.34	32.3	<0.02	<1	0.8	69.1	<10	<2
070129	Soil	<0.02	2.0	0.3	<0.05	8.4	6.33	23.5	<0.02	<1	0.6	71.9	<10	<2
070130	Soil	<0.02	1.9	0.2	<0.05	9.0	7.07	26.4	<0.02	<1	0.6	71.3	<10	<2
072975	Soil	0.69	5.7	0.5	<0.05	0.6	1.73	58.7	<0.02	<1	0.2	15.3	<10	<2
072976	Soil	0.39	5.3	0.2	<0.05	1.1	1.77	63.7	<0.02	<1	0.3	43.3	<10	<2
072977	Soil	0.32	4.6	0.4	<0.05	1.9	2.21	71.0	0.02	<1	0.4	49.5	<10	<2
072978	Soil	0.17	4.4	0.2	<0.05	2.9	4.04	62.1	<0.02	<1	0.4	54.1	<10	<2
072979	Soil	0.08	2.8	0.7	<0.05	1.6	5.52	72.0	<0.02	<1	0.4	61.2	<10	<2
072980	Soil	0.20	5.0	0.3	<0.05	3.6	5.62	44.2	0.02	<1	0.6	70.0	<10	<2
072501	Soil	0.09	4.6	0.6	<0.05	2.2	13.20	44.9	0.05	<1	2.8	120.6	<10	2
072502	Soil	0.30	4.8	0.3	<0.05	1.7	8.24	51.5	0.02	<1	0.6	66.8	<10	<2
072503	Soil	0.11	2.5	0.2	<0.05	2.5	5.29	56.6	<0.02	<1	0.6	84.5	<10	<2
072504	Soil	0.17	4.6	0.2	<0.05	0.4	2.08	33.5	<0.02	<1	0.3	35.9	<10	<2
072505	Soil	0.03	3.3	0.3	<0.05	3.3	5.51	91.7	0.03	<1	0.6	72.6	<10	4
072506	Soil	0.31	4.0	0.2	<0.05	1.5	2.84	52.3	<0.02	<1	0.2	64.7	<10	<2
072507	Soil	0.18	4.3	0.3	<0.05	1.0	2.00	28.6	<0.02	<1	0.3	27.3	<10	<2
072508	Soil	0.04	2.5	0.2	<0.05	4.2	5.01	41.8	<0.02	<1	0.3	77.5	<10	<2
072509	Soil	0.10	3.5	0.2	<0.05	3.2	3.79	34.9	<0.02	<1	0.3	61.8	<10	<2
072510	Soil	0.15	3.3	0.2	<0.05	2.0	3.51	24.6	<0.02	<1	0.3	36.1	<10	<2



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**Project:** NA-16176  
**Report Date:** September 20, 2016

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# QUALITY CONTROL REPORT

# WHI16000238.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																						
070028	Soil	0.60	79.65	62.23	107.8	165	47.7	37.2	1001	5.03	12.2	2.0	6.2	15.3	23.1	0.13	0.68	0.86	18	0.27	0.057	
REP 070028	QC	0.54	80.62	59.52	111.5	154	46.3	36.2	979	4.97	12.2	2.0	3.0	14.7	22.2	0.05	0.68	0.80	18	0.27	0.064	
072515	Soil	0.60	48.87	46.08	85.3	166	51.1	24.6	677	4.08	251.4	2.7	50.8	15.5	44.8	0.09	0.71	0.47	23	0.22	0.045	
REP 072515	QC	0.62	52.90	45.11	85.3	182	50.2	23.5	678	4.04	250.5	2.6	46.1	15.2	43.7	0.13	0.59	0.43	23	0.22	0.050	
069371	Soil	0.24	35.89	33.61	91.8	74	38.8	13.9	407	3.49	6.2	1.9	<0.2	8.9	16.7	0.05	0.36	0.42	12	0.15	0.060	
REP 069371	QC	0.28	34.50	32.14	88.7	99	36.1	13.8	397	3.46	5.7	1.8	1.5	9.0	16.0	0.05	0.31	0.39	12	0.15	0.062	
072538	Soil	0.88	75.08	38.18	102.3	86	50.4	27.6	1206	4.83	42.3	2.1	6.6	7.7	23.1	0.12	2.21	0.76	12	1.01	0.072	
REP 072538	QC	0.87	75.31	38.06	103.6	85	50.3	28.1	1191	4.83	42.3	2.2	4.7	8.2	23.1	0.09	2.27	0.75	12	0.99	0.071	
072614	Soil	1.16	123.38	70.21	144.9	183	59.3	67.9	1725	5.08	98.0	6.8	7.9	19.0	8.5	0.15	0.88	0.69	18	0.09	0.084	
REP 072614	QC	1.13	125.71	68.88	143.9	192	59.2	67.3	1721	5.07	96.2	6.7	8.2	19.2	8.4	0.14	0.85	0.69	18	0.10	0.081	
072710	Soil	0.50	56.80	42.12	85.4	143	39.8	26.8	1519	3.97	50.0	1.6	7.3	5.4	66.7	0.36	0.93	0.65	15	1.18	0.108	
REP 072710	QC	0.58	51.24	39.69	78.5	147	38.4	27.3	1468	3.80	45.6	1.5	7.6	5.8	63.7	0.36	0.86	0.53	16	1.12	0.102	
070126	Soil	0.57	140.62	143.58	138.4	195	51.8	76.9	1161	4.28	9.1	2.0	2.2	18.3	10.0	0.07	0.21	0.72	17	0.09	0.031	
REP 070126	QC	0.54	141.54	147.56	136.6	203	53.0	75.6	1178	4.37	9.1	2.0	2.1	20.2	10.4	0.08	0.22	0.75	17	0.09	0.032	
Reference Materials																						
STD DS10	Standard	15.35	157.97	148.12	357.3	1681	75.9	12.9	883	2.76	44.1	2.6	83.1	7.3	66.0	2.28	9.37	11.63	45	1.06	0.077	
STD DS10	Standard	15.38	159.40	148.08	364.6	1698	79.4	14.2	874	2.78	41.3	2.4	64.2	7.4	65.1	2.52	9.17	11.33	45	1.06	0.073	
STD DS10	Standard	16.21	156.59	155.37	359.8	1755	78.4	13.5	915	2.86	44.7	2.7	72.6	8.1	67.9	2.63	9.67	11.74	47	1.13	0.074	
STD DS10	Standard	16.04	156.52	153.76	347.3	1757	76.5	13.1	889	2.72	42.1	2.7	74.4	7.8	62.9	2.21	9.14	11.35	44	1.07	0.065	
STD DS10	Standard	16.13	152.03	150.23	364.9	1825	74.0	13.2	877	2.83	45.3	2.7	73.5	7.6	67.3	2.52	9.72	11.89	43	1.10	0.076	
STD DS10	Standard	15.29	146.54	146.51	355.2	1736	73.9	13.0	868	2.73	45.1	2.7	86.2	7.5	69.6	2.50	9.31	11.53	45	1.08	0.075	
STD DS10	Standard	15.89	154.04	152.69	370.1	1775	77.4	13.5	881	2.78	46.1	2.7	79.6	8.1	69.9	2.60	9.63	12.22	46	1.11	0.078	
STD OXC129	Standard	1.47	28.16	6.22	44.3	24	82.0	19.6	427	2.99	1.2	0.7	198.5	1.8	187.9	<0.01	0.03	<0.02	54	0.69	0.096	
STD OXC129	Standard	1.53	27.77	6.34	40.0	22	84.6	20.9	429	3.00	<0.1	0.7	193.5	2.0	189.0	0.06	0.05	<0.02	52	0.67	0.100	
STD OXC129	Standard	1.37	28.16	6.82	40.6	21	84.2	21.2	447	3.15	0.8	0.8	206.4	2.0	196.9	<0.01	0.04	<0.02	54	0.76	0.097	
STD OXC129	Standard	1.36	29.00	6.45	40.1	37	84.8	21.4	438	2.99	0.8	0.7	188.0	1.9	186.5	0.03	0.08	0.09	53	0.71	0.099	
STD OXC129	Standard	1.33	27.21	6.43	41.3	12	79.5	21.2	427	3.08	0.8	0.7	196.4	1.9	194.3	0.03	0.03	<0.02	50	0.74	0.101	
STD OXC129	Standard	1.28	26.43	5.78	40.4	10	75.5	19.9	400	2.96	0.9	0.6	182.2	1.8	189.2	0.02	0.03	<0.02	52	0.78	0.091	



# QUALITY CONTROL REPORT

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Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
Analyte	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
Pulp Duplicates																					
070028	Soil	25.7	33.7	0.92	30.5	0.003	3	2.26	0.005	0.04	<0.1	3.3	0.04	<0.02	31	0.3	0.08	6.5	1.54	<0.1	0.13
REP 070028	QC	24.9	32.5	0.91	28.8	0.003	1	2.25	0.004	0.04	<0.1	3.0	0.04	<0.02	6	0.4	0.12	6.2	1.52	<0.1	0.14
072515	Soil	17.0	44.1	1.05	34.8	0.002	1	2.09	0.003	0.04	<0.1	2.7	0.03	<0.02	14	<0.1	<0.02	5.4	0.80	<0.1	0.14
REP 072515	QC	16.2	44.5	1.03	32.1	0.002	2	2.04	0.003	0.04	<0.1	2.5	0.03	<0.02	7	<0.1	<0.02	4.9	0.73	<0.1	0.06
069371	Soil	20.5	20.8	0.65	46.0	0.002	3	1.97	0.007	0.03	<0.1	2.2	0.04	<0.02	27	0.3	0.02	5.2	1.15	<0.1	0.13
REP 069371	QC	18.2	21.1	0.64	45.1	0.002	2	1.93	0.007	0.03	<0.1	2.4	0.04	<0.02	18	0.4	<0.02	4.8	1.16	<0.1	0.10
072538	Soil	19.1	25.2	0.88	29.9	0.001	1	1.94	0.005	0.03	<0.1	3.7	0.04	0.06	15	0.5	0.13	5.2	1.18	<0.1	0.19
REP 072538	QC	19.3	25.2	0.87	29.3	0.001	<1	1.93	0.005	0.03	<0.1	3.9	0.03	0.06	17	0.3	0.12	5.5	1.19	<0.1	0.13
072614	Soil	25.3	36.3	1.05	40.4	0.002	<1	2.57	0.005	0.04	<0.1	3.4	0.03	0.03	43	0.1	0.09	6.8	4.06	<0.1	0.08
REP 072614	QC	24.3	37.0	1.06	40.3	0.002	<1	2.61	0.006	0.04	<0.1	3.6	0.03	0.02	40	0.2	0.09	6.7	4.05	<0.1	0.07
072710	Soil	17.0	26.3	0.70	83.5	0.006	<1	1.85	0.006	0.04	<0.1	1.8	0.07	0.09	30	0.5	0.10	4.9	1.12	0.1	0.14
REP 072710	QC	16.5	26.4	0.67	78.9	0.006	4	1.80	0.006	0.04	<0.1	2.0	0.05	0.10	32	0.4	0.15	4.6	1.10	0.2	0.17
070126	Soil	23.3	29.7	1.00	45.8	<0.001	<1	2.45	0.003	0.03	<0.1	1.9	0.04	<0.02	12	0.2	0.08	6.0	1.69	<0.1	0.06
REP 070126	QC	23.2	30.2	1.01	45.9	<0.001	<1	2.48	0.002	0.03	<0.1	2.1	0.04	<0.02	19	<0.1	0.08	6.2	1.77	<0.1	0.06
Reference Materials																					
STD DS10	Standard	17.4	57.9	0.77	344.3	0.082	6	1.07	0.075	0.34	3.1	3.0	5.00	0.28	265	2.4	4.75	4.6	2.71	<0.1	0.03
STD DS10	Standard	17.6	56.9	0.78	347.5	0.081	6	1.07	0.074	0.34	3.3	2.9	5.01	0.27	250	1.4	4.87	4.1	2.68	<0.1	0.04
STD DS10	Standard	19.0	58.4	0.79	363.2	0.087	6	1.09	0.075	0.35	3.3	3.2	5.05	0.30	278	1.9	5.06	4.5	2.80	0.1	0.03
STD DS10	Standard	18.0	55.7	0.76	335.6	0.081	10	1.05	0.070	0.33	3.0	3.2	4.87	0.28	240	2.3	4.58	4.1	2.53	<0.1	0.07
STD DS10	Standard	19.6	55.8	0.79	363.2	0.082	8	1.11	0.072	0.35	3.3	3.1	5.18	0.28	270	2.3	5.13	4.5	2.79	<0.1	0.07
STD DS10	Standard	19.9	55.9	0.77	364.1	0.085	7	1.12	0.074	0.35	3.2	3.3	5.17	0.29	252	2.3	4.92	4.5	2.80	<0.1	0.07
STD DS10	Standard	20.1	57.5	0.79	371.1	0.085	8	1.12	0.071	0.35	3.5	3.2	5.23	0.29	287	2.4	5.04	4.6	2.81	<0.1	0.06
STD OXC129	Standard	12.0	54.5	1.52	45.4	0.396	<1	1.59	0.593	0.36	<0.1	1.1	0.03	<0.02	<5	<0.1	<0.02	5.3	0.15	<0.1	0.22
STD OXC129	Standard	12.6	53.1	1.52	47.2	0.399	1	1.57	0.595	0.38	<0.1	1.0	0.04	<0.02	<5	<0.1	<0.02	5.5	0.15	<0.1	0.37
STD OXC129	Standard	12.7	54.2	1.59	51.7	0.432	2	1.65	0.606	0.37	<0.1	0.9	0.03	<0.02	<5	<0.1	0.06	6.1	0.16	<0.1	0.23
STD OXC129	Standard	12.7	54.1	1.53	49.1	0.425	3	1.57	0.587	0.37	<0.1	0.8	0.04	<0.02	8	<0.1	<0.02	6.2	0.15	<0.1	0.33
STD OXC129	Standard	12.6	53.5	1.53	50.4	0.397	<1	1.62	0.603	0.36	<0.1	1.2	0.03	<0.02	<5	<0.1	<0.02	5.9	0.17	<0.1	0.27
STD OXC129	Standard	11.6	52.2	1.45	48.0	0.395	1	1.61	0.592	0.36	<0.1	1.3	0.03	<0.02	<5	<0.1	<0.02	5.5	0.15	<0.1	0.23



# QUALITY CONTROL REPORT

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates														
070028	Soil	0.19	3.1	0.4	<0.05	5.2	8.68	44.4	0.05	<1	0.5	69.9	14	<2
REP 070028	QC	0.22	3.3	0.5	<0.05	5.4	8.64	43.8	0.03	<1	0.5	69.3	<10	<2
072515	Soil	0.04	2.4	11.9	<0.05	5.6	6.17	34.8	0.04	<1	0.6	56.2	<10	<2
REP 072515	QC	<0.02	2.4	12.0	<0.05	4.9	5.78	32.5	0.06	<1	0.4	57.7	14	<2
069371	Soil	0.13	4.7	1.2	<0.05	4.4	11.04	34.4	0.02	<1	0.7	51.8	<10	3
REP 069371	QC	0.11	4.5	1.2	<0.05	3.7	10.65	32.9	0.07	<1	0.4	51.3	<10	<2
072538	Soil	0.08	2.4	0.6	<0.05	5.8	10.39	36.8	0.04	<1	0.5	63.0	<10	<2
REP 072538	QC	0.07	2.4	0.6	<0.05	6.4	10.43	37.6	0.03	<1	0.5	62.7	<10	<2
072614	Soil	0.06	4.2	0.5	<0.05	3.3	7.72	48.0	0.05	<1	1.0	78.3	<10	<2
REP 072614	QC	0.05	4.2	0.4	<0.05	3.0	7.49	46.9	0.04	<1	0.9	79.8	<10	<2
072710	Soil	0.31	6.0	0.1	<0.05	4.9	8.34	31.8	0.03	<1	<0.1	53.8	<10	5
REP 072710	QC	0.33	5.7	<0.1	<0.05	5.1	7.65	29.8	0.03	<1	0.9	54.5	<10	<2
070126	Soil	0.03	3.3	0.2	<0.05	5.5	8.43	40.5	0.03	<1	1.3	84.8	<10	<2
REP 070126	QC	0.03	3.5	0.2	<0.05	5.5	8.59	41.2	<0.02	<1	1.3	90.6	<10	<2
Reference Materials														
STD DS10	Standard	1.70	28.7	1.7	<0.05	2.4	8.29	35.6	0.22	64	0.7	18.7	102	156
STD DS10	Standard	1.50	27.7	1.5	<0.05	2.6	7.81	35.5	0.21	44	0.3	19.9	102	172
STD DS10	Standard	1.76	28.0	1.8	<0.05	2.6	7.85	37.7	0.29	47	0.6	20.5	127	200
STD DS10	Standard	1.73	27.4	1.7	<0.05	2.7	7.47	34.8	0.24	35	0.3	18.9	104	199
STD DS10	Standard	1.74	29.4	1.6	<0.05	2.6	8.70	39.4	0.24	53	0.6	20.8	119	179
STD DS10	Standard	1.83	29.2	1.6	<0.05	2.5	8.89	39.7	0.21	54	0.7	19.7	108	183
STD DS10	Standard	1.84	29.9	1.6	<0.05	2.6	8.75	40.1	0.22	48	0.5	19.5	113	185
STD OXC129	Standard	1.64	15.2	0.7	<0.05	21.0	4.46	21.8	<0.02	<1	0.8	2.6	<10	<2
STD OXC129	Standard	1.75	16.4	0.8	<0.05	22.0	4.70	23.2	<0.02	<1	1.0	1.7	<10	<2
STD OXC129	Standard	1.73	15.5	0.9	<0.05	22.0	4.95	23.4	<0.02	<1	0.7	2.8	<10	<2
STD OXC129	Standard	1.51	15.6	0.8	<0.05	23.3	5.05	22.2	<0.02	<1	0.5	2.0	<10	<2
STD OXC129	Standard	1.60	15.8	0.7	<0.05	22.6	5.07	23.5	<0.02	<1	0.8	2.3	<10	<2
STD OXC129	Standard	1.28	15.3	0.6	<0.05	19.6	4.72	21.8	<0.02	<1	0.9	2.4	<10	<2



Bureau Veritas Commodities Canada Ltd.

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Project: NA-16176  
Report Date: September 20, 2016

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# QUALITY CONTROL REPORT

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		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
STD OXC129	Standard	1.31	26.52	6.18	40.6	9	76.7	19.9	404	3.00	0.9	0.7	182.4	1.9	193.0	0.03	0.03	<0.02	54	0.76	0.102
STD DS10 Expected		15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	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	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665	0.102
BLK	Blank	<0.01	0.02	0.01	<0.1	10	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	0.02	0.2	<2	0.1	<0.1	<1	<0.01	0.4	<0.1	<0.2	<0.1	<0.5	0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.04	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.02	0.01	0.4	<2	<0.1	<0.1	1	<0.01	0.3	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.4	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



Bureau Veritas Commodities Canada Ltd.

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Project: NA-16176

Report Date: September 20, 2016

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# QUALITY CONTROL REPORT

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		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
STD OXC129	Standard	12.1	51.9	1.47	50.0	0.399	2	1.62	0.591	0.36	<0.1	1.2	0.03	<0.02	<5	<0.1	<0.02	5.6	0.16	<0.1	0.21
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0259	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	2.63	0.08	0.06
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6	0.16		0.24
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	0.2	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	0.03	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



# QUALITY CONTROL REPORT

WHI16000238.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
STD OXC129	Standard	1.45	15.3	0.6	<0.05	19.3	4.85	23.4	<0.02	<1	0.8	2.3	<10	<2
STD DS10 Expected		1.62	27.7	1.6		2.7	7.77	37	0.23	50	0.63	19.4	110	191
STD OXC129 Expected		1.4		0.7		21	4.7	23.7			0.8	2.22		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	0.02	<0.1	<0.02	2	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

**Client:** **Golden Predator Mining Corp.**  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

Submitted By: M. Burke  
Receiving Lab: Canada-Whitehorse  
Received: September 09, 2016  
Report Date: September 27, 2016  
Page: 1 of 12

# CERTIFICATE OF ANALYSIS

WHI16000271.1

## CLIENT JOB INFORMATION

Project: None Given  
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: Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6  
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
AQ251_EXT	319	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
SHP01	320	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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**Client:** Golden Predator Mining Corp.  
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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000271.1

Method Analyte	Unit	MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
073671	Soil		0.26	43.96	15.01	105.4	57	38.5	17.6	2262	3.78	1.7	1.5	3.8	31.4	11.5	0.03	0.16	0.19	11	0.20	0.031
073672	Soil		0.49	57.31	99.86	96.7	102	34.5	34.9	1580	3.92	41.6	2.0	10.9	14.3	7.9	0.08	0.60	0.53	11	0.07	0.047
073673	Soil		0.12	46.43	7.99	93.1	20	37.2	17.8	928	4.19	1.4	0.8	0.4	21.6	8.0	0.01	0.13	0.06	9	0.14	0.023
073674	Soil		0.38	53.36	27.17	74.2	64	25.5	37.0	1792	3.32	3.8	1.6	0.6	6.5	3.5	0.03	0.31	0.45	10	0.03	0.059
073675	Soil		0.59	27.34	13.95	29.1	34	10.3	5.3	270	1.92	5.5	0.5	0.6	9.6	7.8	0.11	0.39	0.35	25	0.10	0.024
073676	Soil		0.26	21.55	10.22	87.7	114	24.9	12.3	600	3.48	2.2	1.1	0.7	5.8	7.9	0.10	0.20	0.42	10	0.16	0.086
073677	Soil		0.36	23.50	36.11	42.1	49	27.6	12.8	962	2.88	5.0	0.9	0.6	6.0	11.7	0.08	0.42	0.32	14	0.18	0.064
073678	Soil		0.69	18.14	15.24	61.6	13	20.1	9.6	233	2.84	29.5	2.0	0.6	5.7	15.6	0.19	0.45	0.34	15	0.06	0.024
073679	Soil		0.26	25.63	25.18	70.3	17	31.3	11.0	250	3.83	26.9	0.6	2.6	9.4	9.5	<0.01	0.41	0.37	15	0.06	0.020
073680	Soil		0.28	32.88	26.62	75.8	34	31.3	11.6	190	3.78	11.7	1.0	0.9	13.5	8.8	0.05	0.85	0.45	11	0.06	0.030
073681	Soil		0.28	31.46	29.33	77.7	47	34.8	14.4	456	3.79	7.4	1.3	1.0	12.6	42.4	0.04	0.48	0.48	11	0.41	0.044
073682	Soil		0.36	33.28	21.31	59.5	55	30.4	13.4	398	3.55	16.9	1.4	1.5	11.8	33.7	0.06	0.80	0.40	11	0.29	0.027
073683	Soil		0.38	15.72	21.65	41.9	24	17.5	7.7	140	2.35	12.9	1.0	0.8	8.0	30.2	0.07	1.48	0.27	9	0.32	0.023
073684	Soil		0.38	17.66	30.92	67.7	57	28.4	11.7	364	3.37	16.7	1.1	2.0	9.1	42.4	0.05	0.56	0.39	10	0.57	0.037
073685	Soil		0.40	6.74	32.36	52.1	24	10.4	5.2	421	2.47	11.6	0.7	0.4	5.9	55.9	0.14	0.87	0.39	19	0.49	0.026
073686	Soil		0.45	20.99	17.53	38.3	80	10.2	5.0	186	1.60	10.8	1.8	0.9	2.6	54.5	0.17	1.44	0.22	11	0.59	0.035
073687	Soil		0.25	20.59	16.52	48.4	81	19.2	8.2	308	2.27	12.4	1.4	2.1	5.3	123.0	0.05	0.43	0.25	12	3.02	0.053
073688	Soil		0.19	25.27	16.64	49.1	79	23.2	7.7	233	2.30	8.5	2.4	2.2	4.9	100.6	0.06	0.41	0.26	11	1.20	0.047
073689	Soil		0.30	18.47	14.90	49.4	41	21.1	9.1	825	2.41	14.0	0.8	12.7	8.8	28.6	0.05	0.25	0.27	13	0.30	0.043
073690	Soil		0.30	12.37	17.69	48.2	24	20.4	9.4	378	2.64	18.2	1.9	0.8	7.9	23.4	0.04	0.26	0.29	15	0.23	0.017
072761	Soil		0.61	17.18	18.51	76.9	297	25.3	11.6	409	3.76	14.4	0.6	1.2	7.5	6.3	0.08	0.35	0.37	20	0.03	0.076
072762	Soil		0.76	26.22	16.90	67.0	109	28.5	9.9	146	2.17	9.0	0.9	6.8	7.0	7.5	0.07	0.36	0.28	9	0.02	0.036
072763	Soil		0.72	38.03	29.48	87.5	160	36.7	12.8	286	4.25	18.7	1.1	4.1	11.8	7.0	0.06	0.49	0.42	15	0.01	0.039
072764	Soil		0.50	19.45	16.79	59.7	276	18.9	8.3	249	2.61	11.6	0.6	1.5	1.5	10.8	0.11	0.38	0.33	13	0.09	0.066
072765	Soil		0.44	15.95	20.65	49.6	513	14.5	18.3	866	2.35	8.0	0.5	0.6	1.6	7.4	0.12	0.29	0.30	14	0.04	0.088
072766	Soil		0.51	25.48	24.75	85.6	204	35.2	12.6	457	4.31	23.9	0.8	2.1	8.4	6.1	0.05	0.47	0.43	17	0.03	0.045
072767	Soil		0.44	43.60	34.16	92.3	137	44.1	20.9	559	4.58	54.6	0.9	24.6	9.9	4.8	0.02	0.55	0.51	15	0.04	0.037
072768	Soil		0.60	135.04	67.68	127.0	131	49.2	36.1	623	4.98	12.2	3.6	1.1	12.5	4.8	0.05	0.39	0.59	17	0.07	0.060
072769	Soil		0.84	114.44	59.56	135.3	104	57.8	40.8	1526	5.20	37.7	2.9	10.7	11.5	4.8	0.13	1.65	0.79	12	0.05	0.043
072770	Soil		0.56	90.33	43.61	119.4	154	48.3	26.7	883	4.72	28.2	2.4	7.4	8.6	5.4	0.06	1.00	0.59	13	0.07	0.040



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000271.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
073671	Soil	52.1	28.5	1.00	70.0	0.001	<1	2.20	0.005	0.04	<0.1	1.9	0.03	<0.02	30	<0.1	0.04	5.6	4.36	<0.1	0.21
073672	Soil	31.5	20.9	0.72	55.4	0.002	<1	1.81	0.005	0.03	<0.1	1.9	0.04	<0.02	20	<0.1	0.02	4.9	1.83	<0.1	0.04
073673	Soil	18.5	22.2	0.82	35.1	0.002	<1	2.05	0.002	0.03	<0.1	1.3	0.02	<0.02	<5	<0.1	<0.02	5.2	1.30	<0.1	0.28
073674	Soil	19.3	17.0	0.55	26.3	0.004	<1	1.58	0.007	0.03	<0.1	1.4	0.03	0.03	79	<0.1	0.04	4.3	1.11	<0.1	0.12
073675	Soil	34.5	11.4	0.18	49.3	0.017	<1	0.89	0.005	0.05	0.1	1.0	0.09	<0.02	33	<0.1	0.03	5.6	1.87	<0.1	<0.02
073676	Soil	17.4	21.0	0.58	28.1	<0.001	<1	1.61	0.003	0.03	<0.1	0.7	<0.02	0.05	28	0.1	0.05	5.0	1.66	<0.1	0.15
073677	Soil	24.5	14.5	0.39	64.4	0.004	<1	1.39	0.006	0.04	<0.1	1.9	0.06	0.02	9	<0.1	0.03	3.5	1.50	<0.1	0.06
073678	Soil	21.9	16.8	0.34	35.9	0.006	<1	1.06	0.008	0.05	0.1	1.1	0.04	<0.02	8	<0.1	0.07	4.1	1.05	<0.1	<0.02
073679	Soil	30.0	25.8	0.56	51.3	0.002	2	1.83	0.005	0.07	<0.1	1.8	0.05	<0.02	14	<0.1	0.07	5.1	0.77	<0.1	0.05
073680	Soil	27.5	22.1	0.52	17.5	0.003	2	1.64	0.006	0.04	<0.1	1.5	0.03	<0.02	22	<0.1	0.04	4.7	0.80	<0.1	0.08
073681	Soil	21.4	21.6	0.58	43.0	0.002	1	1.65	0.003	0.05	<0.1	1.7	0.04	<0.02	12	<0.1	0.02	4.5	0.71	<0.1	0.09
073682	Soil	22.5	19.8	0.43	51.8	0.002	<1	1.52	0.006	0.08	<0.1	2.0	0.06	<0.02	17	<0.1	0.03	4.1	0.97	<0.1	0.04
073683	Soil	23.3	9.7	0.20	58.8	0.001	<1	1.02	0.007	0.08	<0.1	1.2	0.07	<0.02	<5	<0.1	0.03	2.8	1.00	<0.1	0.05
073684	Soil	24.8	15.1	0.44	42.5	0.002	6	1.18	0.004	0.04	<0.1	4.0	0.03	0.02	26	<0.1	0.03	3.2	0.68	<0.1	0.06
073685	Soil	18.9	11.6	0.17	99.0	0.006	<1	1.31	0.008	0.10	0.1	1.5	0.11	<0.02	25	<0.1	0.03	4.6	2.32	<0.1	0.03
073686	Soil	17.7	7.7	0.09	41.0	0.005	<1	0.71	0.011	0.06	<0.1	1.2	0.06	0.03	18	<0.1	0.02	2.3	0.82	<0.1	<0.02
073687	Soil	16.4	13.5	0.39	33.4	0.011	2	0.99	0.009	0.04	0.1	2.1	0.04	0.02	21	0.3	0.02	2.8	0.63	<0.1	0.03
073688	Soil	15.7	15.8	0.41	61.3	0.011	1	1.24	0.012	0.04	<0.1	2.2	0.07	0.09	44	1.0	0.03	3.1	1.02	<0.1	0.05
073689	Soil	24.4	17.2	0.47	31.9	0.020	<1	1.19	0.011	0.07	0.2	2.0	0.07	0.02	9	<0.1	0.02	3.7	0.86	<0.1	0.07
073690	Soil	23.8	18.8	0.48	29.6	0.018	<1	1.26	0.008	0.05	0.2	2.2	0.06	<0.02	11	<0.1	0.05	3.7	0.88	<0.1	0.03
072761	Soil	27.1	21.9	0.49	43.1	0.005	<1	1.51	0.006	0.04	0.2	1.3	0.06	<0.02	27	<0.1	0.05	6.5	1.61	<0.1	<0.02
072762	Soil	42.8	8.8	0.09	22.2	0.002	<1	0.43	0.003	0.03	0.4	0.6	0.05	<0.02	32	<0.1	0.04	2.0	1.32	<0.1	<0.02
072763	Soil	36.6	22.9	0.48	17.1	0.002	<1	1.38	0.003	0.03	0.2	1.3	0.06	<0.02	34	<0.1	0.08	4.4	1.31	<0.1	0.02
072764	Soil	15.5	14.2	0.35	44.3	0.005	<1	1.18	0.010	0.05	<0.1	0.6	0.04	0.02	23	<0.1	0.06	4.8	1.07	<0.1	<0.02
072765	Soil	21.7	11.9	0.20	45.5	0.004	<1	0.82	0.008	0.05	<0.1	0.5	0.04	<0.02	20	<0.1	0.08	4.0	1.03	<0.1	<0.02
072766	Soil	27.6	27.9	0.72	64.0	0.003	<1	1.80	0.003	0.04	<0.1	1.5	0.03	<0.02	16	<0.1	0.07	6.0	0.97	<0.1	<0.02
072767	Soil	26.2	30.9	0.83	30.7	0.001	<1	2.02	0.003	0.04	<0.1	2.1	0.04	<0.02	13	<0.1	0.06	5.2	1.10	<0.1	0.08
072768	Soil	17.5	34.8	1.00	16.8	0.002	<1	2.45	0.008	0.04	<0.1	2.8	0.04	<0.02	13	<0.1	0.13	7.0	6.72	<0.1	0.08
072769	Soil	16.4	25.3	0.77	21.0	0.001	1	1.89	0.006	0.03	<0.1	3.6	0.04	<0.02	19	0.3	0.14	5.0	4.61	<0.1	0.06
072770	Soil	14.8	27.2	0.82	23.3	0.002	<1	2.04	0.007	0.03	<0.1	2.4	0.03	<0.02	16	<0.1	0.10	5.3	4.42	<0.1	0.04



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**Project:** None Given  
**Report Date:** September 27, 2016

**Page:** 2 of 12

**Part:** 3 of 3

# CERTIFICATE OF ANALYSIS

WHI16000271.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
073671	Soil	<0.02	3.2	0.5	<0.05	12.6	10.09	98.0	<0.02	<1	1.1	72.8	<10	<2
073672	Soil	0.06	3.0	0.1	<0.05	2.8	7.34	61.5	0.02	<1	1.0	56.9	<10	<2
073673	Soil	<0.02	2.5	0.2	<0.05	15.0	4.75	35.3	<0.02	<1	0.4	59.0	<10	<2
073674	Soil	0.10	3.2	0.2	<0.05	4.5	6.28	35.7	<0.02	<1	0.8	40.9	<10	<2
073675	Soil	0.94	12.9	0.8	<0.05	0.6	2.91	72.5	0.03	<1	0.1	13.8	<10	<2
073676	Soil	0.08	3.7	0.2	<0.05	5.1	4.17	32.8	<0.02	<1	0.6	45.4	<10	<2
073677	Soil	0.21	7.7	1.3	<0.05	1.8	9.33	58.6	0.02	<1	0.9	21.3	<10	<2
073678	Soil	0.54	9.7	0.3	<0.05	1.4	1.70	40.2	<0.02	<1	0.3	34.9	<10	<2
073679	Soil	0.26	6.8	0.4	<0.05	2.5	2.54	55.8	<0.02	<1	0.5	55.6	<10	<2
073680	Soil	0.19	5.7	0.2	<0.05	4.3	3.11	53.1	<0.02	<1	0.7	57.1	<10	<2
073681	Soil	0.19	5.0	0.2	<0.05	3.4	4.81	41.7	0.03	<1	0.8	59.8	<10	<2
073682	Soil	0.27	8.0	0.2	<0.05	2.7	5.64	43.4	0.02	<1	0.7	53.8	<10	<2
073683	Soil	0.36	12.5	0.4	<0.05	2.8	2.96	45.7	0.02	<1	0.3	26.8	<10	<2
073684	Soil	0.25	5.5	0.3	<0.05	2.3	10.75	47.3	0.02	<1	0.9	44.0	<10	<2
073685	Soil	1.21	30.6	0.9	<0.05	1.8	2.45	36.8	0.03	<1	0.4	20.0	<10	<2
073686	Soil	0.58	9.4	0.4	<0.05	0.9	5.34	34.4	<0.02	<1	0.4	7.8	<10	<2
073687	Soil	0.70	5.6	1.6	<0.05	1.6	6.08	32.0	<0.02	<1	0.3	25.5	<10	<2
073688	Soil	1.09	7.1	0.4	<0.05	2.7	7.80	29.4	<0.02	<1	0.4	35.0	<10	<2
073689	Soil	0.93	10.2	0.4	<0.05	3.2	6.00	47.3	0.02	<1	0.4	33.0	<10	<2
073690	Soil	0.88	8.3	0.3	<0.05	1.3	4.14	50.5	<0.02	<1	0.6	38.9	<10	<2
072761	Soil	0.52	9.7	0.6	<0.05	1.2	1.60	49.2	0.02	<1	0.2	45.7	<10	<2
072762	Soil	0.07	3.6	0.1	<0.05	0.1	1.71	76.9	<0.02	<1	0.2	6.5	<10	<2
072763	Soil	0.13	4.8	0.2	<0.05	1.5	1.94	64.3	0.02	<1	0.2	37.5	<10	<2
072764	Soil	0.30	8.0	0.2	<0.05	0.4	1.19	29.2	<0.02	<1	0.2	28.6	<10	<2
072765	Soil	0.15	10.3	0.5	<0.05	0.4	1.34	39.9	<0.02	<1	0.2	15.8	<10	<2
072766	Soil	0.17	6.5	0.2	<0.05	1.4	1.82	51.9	<0.02	<1	0.2	55.8	<10	<2
072767	Soil	0.10	4.8	0.2	<0.05	2.3	3.06	51.7	0.03	<1	0.6	65.4	<10	<2
072768	Soil	0.06	3.6	0.2	<0.05	3.5	3.42	29.6	0.03	<1	0.9	72.3	<10	<2
072769	Soil	0.02	3.0	0.1	<0.05	3.6	5.41	29.1	0.03	<1	1.0	55.4	<10	<2
072770	Soil	0.04	3.0	<0.1	<0.05	2.0	4.27	25.4	0.02	<1	0.7	60.1	<10	<2



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000271.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
070161	Soil	0.49	48.84	43.11	107.4	271	42.7	19.8	542	4.25	464.7	1.5	73.5	11.5	29.3	0.14	1.64	0.46	11	0.37	0.052
070162	Soil	1.64	65.90	54.23	111.4	457	46.4	22.9	589	4.24	294.8	1.9	63.1	10.7	32.9	0.28	1.85	0.58	13	0.48	0.055
070163	Soil	1.06	35.15	42.75	93.5	407	35.1	13.1	318	3.35	252.4	2.1	37.4	7.4	29.4	0.10	1.89	0.41	10	0.44	0.049
070164	Soil	0.40	29.21	18.99	63.4	35	49.5	18.8	631	3.67	39.1	0.9	2.8	6.1	42.6	0.07	0.36	0.25	54	0.33	0.048
070165	Soil	0.76	33.69	53.71	61.5	225	36.3	27.9	821	3.27	61.0	3.5	4.5	8.2	27.5	0.09	1.22	0.60	16	0.30	0.119
070166	Soil	0.29	24.61	20.07	24.1	57	11.1	10.6	257	1.23	18.7	1.7	2.2	4.0	8.6	0.04	0.49	0.20	11	0.10	0.071
070167	Soil	0.48	43.42	28.45	41.9	72	24.3	21.1	753	2.68	206.6	2.1	9.0	7.6	13.5	0.09	0.85	0.39	12	0.13	0.096
070168	Soil	0.80	25.39	25.70	31.2	57	22.4	22.2	610	1.78	59.1	2.5	1.7	7.7	12.8	0.06	0.49	0.29	9	0.10	0.064
070169	Soil	0.55	36.96	37.90	43.3	158	45.8	40.6	1100	3.04	234.3	3.8	18.8	19.1	24.1	0.04	0.82	0.36	6	0.34	0.055
070170	Soil	0.48	44.08	34.14	76.7	120	41.3	26.7	592	3.50	125.6	1.8	6.1	16.8	43.1	0.05	0.69	0.38	8	0.92	0.043
071031	Soil	0.61	46.42	35.33	102.1	59	44.5	28.7	701	4.99	32.6	0.8	2.4	8.2	3.2	0.06	0.73	1.35	17	0.06	0.051
071032	Soil	0.53	74.59	40.54	117.7	85	53.4	21.3	1064	5.33	47.0	1.2	2.9	11.2	11.7	0.08	1.18	0.95	15	0.27	0.051
071033	Soil	0.90	67.05	40.99	112.7	60	51.8	30.6	1069	5.08	43.5	1.5	3.4	9.4	10.5	0.08	1.72	0.88	13	0.44	0.038
071034	Soil	0.62	69.23	39.45	121.0	77	55.9	29.2	959	5.28	40.5	1.4	3.8	9.7	18.0	0.07	1.09	0.91	16	0.44	0.055
071035	Soil	0.71	43.30	38.90	105.6	81	36.7	19.8	1285	4.27	86.5	3.7	2.6	2.8	29.8	0.09	0.61	0.66	14	0.84	0.064
071036	Soil	0.44	59.14	84.75	109.0	122	37.0	47.4	943	3.98	7.0	3.9	1.4	19.1	12.7	0.02	0.72	0.69	9	0.10	0.042
071037	Soil	0.24	24.37	9.70	46.7	27	25.6	14.8	420	3.06	15.7	2.2	1.0	14.4	8.9	0.01	0.66	0.46	5	0.11	0.047
071038	Soil	0.44	50.53	38.35	102.7	102	31.1	20.0	268	3.66	9.6	3.9	2.1	13.8	11.7	0.07	0.87	0.62	7	0.04	0.065
071039	Soil	0.31	18.97	50.27	64.9	67	14.5	14.9	879	2.27	7.6	2.0	1.0	7.4	12.2	0.10	0.56	0.32	7	0.19	0.062
071040	Soil	0.99	31.81	36.93	80.1	43	29.5	19.6	559	3.12	10.7	2.7	2.6	3.3	12.2	0.13	0.67	0.43	22	0.12	0.113
072581	Soil	0.57	96.46	51.08	125.2	125	54.9	49.2	1011	5.18	32.8	2.5	2.6	11.7	4.2	0.07	0.64	0.88	18	0.08	0.052
072582	Soil	0.61	74.81	49.47	126.2	138	50.4	27.4	962	5.03	17.2	2.1	1.6	10.5	5.1	0.10	0.61	0.52	18	0.08	0.051
072583	Soil	0.72	86.36	67.69	119.5	125	48.4	38.6	996	4.92	14.8	1.9	1.4	9.6	3.4	0.08	0.38	0.52	19	0.08	0.068
072584	Soil	0.60	66.70	47.82	118.8	73	48.9	29.7	986	4.64	67.5	2.1	8.1	11.7	4.6	0.09	0.63	0.49	16	0.11	0.057
072585	Soil	0.55	61.29	41.80	112.5	65	48.6	26.6	954	4.65	52.0	1.9	4.2	8.9	4.9	0.10	0.59	0.49	16	0.10	0.055
072586	Soil	0.54	62.84	40.01	120.8	117	51.6	27.1	988	4.86	50.6	1.8	7.5	10.6	5.3	0.09	0.80	0.54	16	0.10	0.046
072587	Soil	0.25	11.52	7.90	21.8	95	5.7	3.5	213	0.98	11.4	0.5	0.7	0.2	3.4	0.25	0.18	0.12	12	0.02	0.047
072588	Soil	0.57	65.27	55.47	84.1	438	30.8	18.1	804	3.59	51.8	2.8	6.0	6.3	14.5	0.08	0.56	0.53	14	0.40	0.071
072589	Soil	0.62	56.32	53.26	78.2	420	26.0	19.8	992	3.09	48.1	2.3	4.3	4.4	13.6	0.20	0.57	0.45	13	0.31	0.079
072590	Soil	0.27	8.63	6.57	18.9	87	5.4	2.7	100	1.17	8.5	0.4	0.6	0.4	2.4	0.03	0.17	0.14	9	<0.01	0.034



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000271.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
070161	Soil	18.9	22.0	0.63	32.8	<0.001	<1	1.61	0.003	0.04	<0.1	2.9	0.03	<0.02	22	<0.1	0.05	4.2	0.61	<0.1	0.16
070162	Soil	20.4	22.4	0.69	42.6	0.001	<1	1.83	0.005	0.05	<0.1	3.7	0.06	<0.02	32	0.4	0.09	4.2	0.88	<0.1	0.19
070163	Soil	20.6	16.6	0.52	31.0	<0.001	<1	1.42	0.005	0.04	<0.1	2.8	0.05	0.03	25	0.2	0.08	3.2	0.75	<0.1	0.16
070164	Soil	15.7	95.1	1.70	76.4	0.011	<1	2.60	0.008	0.03	<0.1	4.6	0.04	<0.02	9	<0.1	0.02	6.8	1.43	<0.1	0.05
070165	Soil	19.2	20.2	0.47	56.3	0.006	4	1.50	0.006	0.07	0.1	2.4	0.09	0.05	47	0.4	0.07	3.8	1.21	<0.1	0.07
070166	Soil	7.9	7.0	0.16	17.7	0.012	<1	0.59	0.017	0.03	<0.1	0.8	0.04	0.02	30	0.2	0.03	1.9	0.49	<0.1	0.03
070167	Soil	19.6	15.2	0.45	31.0	0.005	2	1.28	0.007	0.04	<0.1	1.5	0.05	0.03	61	0.4	0.03	2.9	0.84	<0.1	0.08
070168	Soil	15.9	10.5	0.30	32.4	0.006	2	0.93	0.011	0.05	<0.1	1.1	0.05	0.04	49	<0.1	0.03	2.4	0.71	<0.1	0.07
070169	Soil	14.9	9.7	0.43	50.6	0.001	1	1.23	0.004	0.07	<0.1	1.8	0.06	0.02	17	<0.1	0.03	2.2	1.18	<0.1	0.07
070170	Soil	7.7	16.4	0.57	25.6	0.002	<1	1.29	0.003	0.04	<0.1	1.7	0.03	0.04	22	<0.1	0.07	3.2	0.64	<0.1	0.14
071031	Soil	18.5	35.1	0.91	21.0	<0.001	<1	2.38	0.006	0.03	<0.1	2.1	0.04	<0.02	16	<0.1	0.21	7.4	3.04	<0.1	0.11
071032	Soil	29.4	29.1	0.95	20.2	0.002	1	2.35	0.025	0.07	<0.1	5.8	0.02	<0.02	15	<0.1	0.17	6.4	1.02	<0.1	0.15
071033	Soil	25.1	24.6	0.70	19.5	<0.001	<1	1.73	0.006	0.04	<0.1	4.5	0.03	<0.02	26	0.2	0.15	4.8	1.13	<0.1	0.06
071034	Soil	26.6	29.1	0.94	23.7	0.003	3	2.33	0.022	0.08	<0.1	4.2	0.03	<0.02	24	0.1	0.15	6.1	1.22	<0.1	0.09
071035	Soil	13.5	24.9	0.69	43.2	0.001	<1	1.90	0.008	0.04	<0.1	2.8	0.03	0.05	43	0.8	0.08	4.9	2.14	<0.1	0.07
071036	Soil	20.6	19.7	0.75	27.8	0.002	<1	1.87	0.002	0.04	<0.1	1.5	0.06	<0.02	20	<0.1	0.03	4.8	2.03	<0.1	0.06
071037	Soil	24.8	10.5	0.39	18.7	<0.001	<1	1.13	0.002	0.04	<0.1	1.4	0.02	<0.02	8	<0.1	<0.02	2.5	1.46	<0.1	0.04
071038	Soil	31.5	13.1	0.36	29.2	0.002	<1	1.18	0.002	0.09	<0.1	1.4	0.06	0.02	30	<0.1	0.03	2.5	2.01	<0.1	0.07
071039	Soil	21.1	6.0	0.18	78.9	0.002	1	1.00	0.003	0.10	<0.1	1.3	0.10	0.03	34	0.1	0.03	1.7	3.20	<0.1	0.03
071040	Soil	21.6	19.2	0.38	46.1	0.010	2	1.31	0.003	0.08	0.2	1.1	0.12	0.04	24	0.1	0.03	3.6	2.83	<0.1	0.04
072581	Soil	24.0	38.7	1.15	20.1	0.002	<1	2.73	0.008	0.04	<0.1	3.0	0.06	<0.02	14	<0.1	0.14	8.2	4.18	<0.1	0.09
072582	Soil	22.7	38.1	1.10	25.6	0.001	1	2.65	0.008	0.03	<0.1	2.8	0.05	<0.02	15	<0.1	0.06	7.9	3.66	<0.1	0.10
072583	Soil	23.3	39.8	1.08	21.9	0.002	<1	2.66	0.007	0.03	<0.1	2.3	0.04	<0.02	22	<0.1	0.10	8.1	5.82	<0.1	0.16
072584	Soil	19.0	31.3	0.94	22.0	0.002	<1	2.27	0.006	0.03	<0.1	2.4	0.04	<0.02	9	<0.1	0.07	6.8	2.67	<0.1	0.08
072585	Soil	21.1	32.8	0.98	22.1	0.002	<1	2.35	0.006	0.03	<0.1	2.4	0.03	<0.02	16	<0.1	0.10	6.7	2.73	<0.1	0.09
072586	Soil	25.6	32.4	0.99	22.6	0.001	<1	2.37	0.005	0.03	<0.1	2.7	0.03	<0.02	29	<0.1	0.09	6.6	2.45	<0.1	0.12
072587	Soil	5.9	6.0	0.08	15.7	0.006	<1	0.52	0.018	0.02	<0.1	0.3	0.03	0.03	25	0.3	0.02	2.4	0.89	<0.1	<0.02
072588	Soil	10.1	25.2	0.55	43.1	0.002	1	1.90	0.012	0.05	<0.1	2.9	0.05	0.04	41	0.2	0.09	5.0	6.10	<0.1	0.13
072589	Soil	9.1	20.6	0.44	44.5	0.002	<1	1.59	0.012	0.05	<0.1	2.1	0.05	0.06	37	0.2	0.06	4.6	4.77	<0.1	0.12
072590	Soil	10.7	6.5	0.10	15.8	0.005	<1	0.49	0.014	0.02	<0.1	0.2	0.02	<0.02	15	0.1	0.03	2.8	0.51	<0.1	<0.02



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000271.1

	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
070161	Soil	0.03	2.4	1.3	<0.05	5.7	7.68	35.1	0.02	<1	0.5	47.7	<10	<2
070162	Soil	0.07	3.5	0.2	<0.05	7.9	9.60	37.5	0.04	<1	0.7	49.7	<10	<2
070163	Soil	0.08	3.5	0.5	<0.05	6.7	8.32	37.9	0.04	<1	0.7	33.3	<10	<2
070164	Soil	0.26	4.4	0.3	<0.05	1.5	4.93	32.9	0.02	<1	0.5	52.7	<10	<2
070165	Soil	0.36	9.0	20.7	<0.05	1.9	13.83	40.6	0.05	<1	0.9	29.4	<10	<2
070166	Soil	0.14	3.2	0.6	<0.05	1.0	3.78	16.9	<0.02	<1	0.3	8.0	<10	<2
070167	Soil	0.14	5.0	0.8	<0.05	2.7	5.71	42.0	0.02	<1	0.5	21.8	<10	<2
070168	Soil	0.14	4.8	1.2	<0.05	1.9	5.09	33.2	<0.02	<1	0.5	13.9	<10	<2
070169	Soil	0.03	5.1	0.6	<0.05	4.9	10.70	31.6	<0.02	<1	0.4	14.3	<10	<2
070170	Soil	0.06	2.4	0.2	<0.05	10.8	6.38	15.5	<0.02	<1	0.5	40.2	<10	<2
071031	Soil	0.10	5.2	0.5	<0.05	4.0	2.38	36.7	0.03	<1	0.3	65.9	<10	<2
071032	Soil	0.03	2.7	0.2	<0.05	7.9	11.65	49.3	0.04	<1	0.3	65.3	<10	<2
071033	Soil	0.03	2.6	0.5	<0.05	3.7	8.26	44.8	0.05	<1	0.4	49.3	<10	<2
071034	Soil	0.11	3.1	0.2	<0.05	5.5	7.54	46.1	0.04	<1	0.2	67.8	<10	<2
071035	Soil	0.12	4.3	0.4	<0.05	2.1	8.26	25.6	0.03	<1	0.5	48.3	<10	<2
071036	Soil	0.02	3.3	0.2	<0.05	3.8	10.71	38.7	<0.02	<1	0.9	49.1	<10	<2
071037	Soil	<0.02	3.6	0.2	<0.05	2.3	7.07	49.5	0.03	<1	0.6	22.4	<10	<2
071038	Soil	0.05	8.9	0.1	<0.05	2.9	8.13	64.5	<0.02	<1	1.1	21.3	<10	<2
071039	Soil	0.11	12.9	6.0	<0.05	1.9	5.91	44.2	0.02	<1	0.8	7.7	<10	<2
071040	Soil	0.26	10.8	0.4	<0.05	1.4	7.03	43.9	0.02	<1	0.6	20.3	<10	<2
072581	Soil	0.05	3.2	0.2	<0.05	3.9	3.85	41.1	<0.02	<1	0.6	80.3	<10	<2
072582	Soil	0.03	3.1	0.3	<0.05	3.4	3.97	38.9	0.03	<1	0.5	79.4	<10	<2
072583	Soil	0.05	4.0	0.1	<0.05	4.9	3.18	39.6	0.03	<1	0.5	77.7	<10	<2
072584	Soil	0.02	2.7	0.1	<0.05	4.0	4.42	34.2	0.03	<1	0.5	68.6	<10	<2
072585	Soil	0.11	3.0	0.5	<0.05	2.9	4.27	36.9	0.02	<1	0.6	70.2	<10	<2
072586	Soil	0.06	2.9	0.2	<0.05	2.8	4.85	47.8	0.02	<1	0.5	72.8	<10	<2
072587	Soil	0.10	2.5	0.4	<0.05	0.6	0.94	11.1	<0.02	<1	0.2	4.8	<10	<2
072588	Soil	0.18	6.5	0.2	<0.05	4.3	11.32	15.8	0.03	<1	0.7	47.7	<10	<2
072589	Soil	0.33	6.5	2.3	<0.05	4.6	8.02	16.1	0.02	<1	0.6	37.9	<10	<2
072590	Soil	0.10	2.5	0.2	<0.05	0.6	0.81	20.7	<0.02	<1	<0.1	6.8	<10	<2



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
072811	Soil	1.08	121.37	178.15	198.1	912	41.2	60.8	3755	4.81	45.9	2.3	14.5	5.9	9.7	0.60	1.19	1.01	17	0.22	0.101
072812	Soil	0.44	36.04	24.85	81.5	124	33.9	14.2	289	3.43	27.7	3.8	6.2	7.8	12.2	0.03	0.53	0.40	11	0.35	0.041
072813	Soil	0.46	26.54	70.13	61.8	95	18.8	17.1	829	2.41	36.5	1.2	1.7	6.1	11.3	0.13	0.38	0.32	11	0.29	0.069
072814	Soil	0.37	27.88	36.62	73.2	108	20.6	12.0	556	2.35	34.9	1.8	2.4	5.5	9.0	0.17	0.35	0.28	11	0.16	0.066
072815	Soil	0.61	30.50	43.78	73.0	121	19.9	16.9	873	2.86	14.5	1.0	1.1	1.9	5.4	0.24	0.40	0.37	14	0.07	0.107
072816	Soil	0.63	48.39	52.49	107.4	148	33.8	25.5	1010	4.06	55.8	2.1	16.4	7.3	11.2	0.22	0.60	0.54	14	0.23	0.082
072817	Soil	0.57	47.34	50.83	102.9	131	33.6	24.3	972	4.05	54.1	2.0	15.7	7.4	10.5	0.17	0.56	0.51	14	0.22	0.076
072818	Soil	0.40	15.72	17.19	51.6	111	13.0	7.1	285	1.64	13.2	0.8	0.2	3.1	14.8	0.11	0.36	0.24	15	0.28	0.044
072819	Soil	0.46	28.89	37.97	71.0	254	27.3	19.0	513	2.75	35.6	1.6	6.2	8.6	7.1	0.11	0.46	0.28	10	0.12	0.054
072820	Soil	0.61	30.22	26.70	90.6	113	31.9	15.9	341	3.28	118.3	2.0	8.3	7.1	9.2	0.10	0.52	0.35	11	0.20	0.043
073601	Soil	0.84	42.68	26.19	132.5	336	35.5	16.9	1149	3.43	42.1	7.6	1.8	1.7	52.5	0.54	0.62	0.45	18	1.18	0.087
073602	Soil	0.79	8.33	7.80	19.8	38	5.6	3.1	115	1.29	36.9	0.4	2.4	3.7	3.5	0.02	0.43	0.31	31	<0.01	0.028
073603	Soil	0.41	8.50	5.09	16.3	38	4.7	2.5	58	1.31	12.8	0.3	3.2	3.1	2.5	0.07	0.31	0.23	17	<0.01	0.024
073604	Soil	0.38	22.80	11.72	50.2	59	18.7	7.1	179	2.50	52.2	0.6	2.1	3.2	2.6	0.02	0.33	0.29	10	<0.01	0.033
073605	Soil	0.76	20.24	14.27	44.3	92	12.9	6.1	222	4.12	40.6	0.6	1.2	7.3	2.8	0.03	0.65	0.52	24	<0.01	0.048
073606	Soil	0.43	35.89	27.50	94.6	34	40.3	16.1	847	4.47	42.2	0.8	4.9	7.5	8.8	0.07	0.58	0.44	15	0.19	0.056
073607	Soil	0.19	25.03	16.59	59.0	60	22.9	8.2	228	2.34	5.9	1.8	1.8	6.8	30.5	0.03	0.29	0.27	8	0.52	0.039
073608	Soil	0.21	30.05	20.87	73.0	70	28.6	10.4	289	2.92	7.4	1.7	1.5	9.5	28.5	0.03	0.33	0.34	9	0.48	0.042
073609	Soil	0.39	31.97	33.57	73.9	116	26.6	11.4	543	3.05	11.0	3.9	1.6	7.1	54.0	0.04	0.40	0.40	9	0.66	0.060
073610	Soil	0.31	32.14	27.98	50.7	51	30.0	19.2	594	3.71	11.5	1.0	1.6	6.3	6.3	0.06	1.02	0.51	8	0.13	0.050
073611	Soil	0.52	64.22	7.77	71.6	54	87.8	45.3	2072	7.96	21.3	0.3	0.6	1.4	32.2	0.04	0.16	0.12	42	4.17	0.091
073612	Soil	0.27	17.61	8.16	19.8	62	11.7	7.8	195	1.48	4.7	0.6	0.4	1.3	3.8	0.02	0.52	0.22	9	0.03	0.040
073613	Soil	0.34	28.71	18.10	58.0	46	20.0	9.4	244	3.00	7.9	1.0	1.8	3.6	3.4	0.05	0.88	0.38	12	0.02	0.055
073614	Soil	0.49	31.54	21.15	72.8	24	31.2	13.4	357	3.81	7.2	1.2	1.8	6.7	5.7	0.08	0.60	0.45	15	0.03	0.056
073615	Soil	0.31	18.96	5.64	75.5	38	31.9	15.2	463	3.59	0.9	0.4	1.1	4.3	2.5	0.12	0.18	0.41	19	0.01	0.067
073616	Soil	0.44	28.82	17.24	88.2	33	34.1	16.3	678	3.98	2.2	0.6	0.2	4.7	3.1	0.15	0.21	0.41	22	0.03	0.064
073617	Soil	0.42	38.19	9.95	86.3	24	37.7	17.8	520	3.82	2.7	0.8	1.6	9.1	3.2	0.08	0.29	0.35	19	0.02	0.047
073618	Soil	0.64	28.43	26.97	91.3	76	30.1	14.3	629	3.38	9.6	0.8	2.6	6.6	33.8	0.13	0.87	0.34	14	1.15	0.062
073619	Soil	0.55	31.93	37.05	73.0	51	26.5	12.4	389	3.53	9.3	1.2	0.8	6.5	6.4	0.13	0.64	0.52	12	0.03	0.068
073620	Soil	0.74	22.38	22.50	59.3	37	17.3	6.9	281	2.58	6.3	0.9	1.0	1.3	5.3	0.07	0.69	0.35	18	0.03	0.079



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
072811	Soil	23.7	25.5	0.59	67.6	0.008	<1	2.08	0.011	0.06	<0.1	3.3	0.09	0.04	49	<0.1	0.11	5.6	3.61	<0.1	0.08
072812	Soil	24.5	19.1	0.49	16.5	0.001	<1	1.20	0.005	0.03	<0.1	2.2	0.02	0.03	19	0.3	0.06	3.2	1.35	<0.1	0.11
072813	Soil	14.3	12.7	0.31	47.6	0.002	2	1.27	0.004	0.04	<0.1	1.2	0.04	0.05	57	<0.1	0.06	2.9	2.02	<0.1	0.03
072814	Soil	14.4	14.7	0.33	44.3	0.003	<1	1.25	0.009	0.04	0.2	1.6	0.03	0.03	34	0.2	0.07	3.6	1.86	<0.1	0.05
072815	Soil	11.6	19.9	0.43	37.7	0.007	1	1.19	0.013	0.06	<0.1	1.1	0.03	0.07	42	0.4	0.06	4.2	3.09	<0.1	0.07
072816	Soil	17.7	22.8	0.56	35.3	0.002	<1	1.80	0.005	0.04	<0.1	1.6	0.04	0.03	27	<0.1	0.11	5.1	3.05	<0.1	0.06
072817	Soil	17.5	22.3	0.56	32.2	0.002	<1	1.77	0.005	0.03	<0.1	1.6	0.04	0.03	20	<0.1	0.12	5.2	2.96	<0.1	0.07
072818	Soil	22.6	8.9	0.12	33.5	0.007	2	0.48	0.006	0.05	<0.1	0.7	0.04	0.03	29	0.2	0.04	3.5	1.80	<0.1	<0.02
072819	Soil	23.0	11.9	0.16	24.7	0.006	<1	0.73	0.010	0.04	<0.1	1.2	0.03	0.02	48	0.2	0.03	2.4	1.32	<0.1	0.04
072820	Soil	21.0	14.7	0.26	30.0	0.003	<1	0.96	0.006	0.04	<0.1	1.4	0.04	0.02	15	0.1	0.03	2.9	2.21	<0.1	0.03
073601	Soil	17.3	23.0	0.45	53.7	0.018	3	1.55	0.010	0.05	<0.1	1.5	0.05	0.08	38	1.1	0.05	4.6	6.52	<0.1	<0.02
073602	Soil	27.2	6.7	0.03	18.7	0.017	<1	0.50	0.006	0.02	0.1	0.7	0.06	<0.02	10	<0.1	0.04	6.2	0.53	<0.1	<0.02
073603	Soil	24.4	5.4	0.04	13.5	0.005	1	0.37	0.005	0.01	0.1	0.4	0.05	<0.02	8	<0.1	0.05	4.4	0.43	<0.1	<0.02
073604	Soil	15.6	9.2	0.09	10.6	0.002	<1	0.38	0.007	0.02	<0.1	0.7	0.02	<0.02	10	<0.1	0.05	2.1	0.55	<0.1	<0.02
073605	Soil	31.4	14.6	0.22	20.2	0.007	1	0.92	0.003	0.02	0.1	1.0	0.04	<0.02	11	0.3	0.09	8.6	0.93	<0.1	<0.02
073606	Soil	18.5	29.0	0.84	20.7	0.002	<1	1.94	0.002	0.02	<0.1	1.9	<0.02	<0.02	21	0.2	0.09	5.5	0.88	<0.1	0.06
073607	Soil	20.0	14.6	0.40	39.2	0.003	2	1.17	0.009	0.06	<0.1	1.6	0.04	0.03	22	0.4	<0.02	3.2	0.46	<0.1	0.07
073608	Soil	26.3	18.2	0.50	43.6	0.002	1	1.44	0.003	0.07	<0.1	1.9	0.04	0.02	16	0.3	0.03	3.7	0.52	<0.1	0.09
073609	Soil	17.7	16.1	0.47	67.8	0.002	<1	1.48	0.008	0.05	<0.1	2.2	0.05	0.03	33	0.5	0.03	3.9	1.19	<0.1	0.10
073610	Soil	19.6	11.2	0.27	39.4	0.002	<1	1.07	0.002	0.03	<0.1	1.7	0.04	0.03	18	0.2	0.10	2.4	0.77	<0.1	0.08
073611	Soil	6.2	85.2	1.00	12.6	0.001	<1	2.15	0.001	0.02	<0.1	12.1	0.08	0.02	11	0.3	<0.02	4.6	0.29	<0.1	0.02
073612	Soil	11.8	8.2	0.17	27.0	0.005	<1	0.80	0.016	0.03	<0.1	0.5	0.04	<0.02	20	0.2	<0.02	2.4	0.87	<0.1	0.03
073613	Soil	22.5	14.8	0.36	33.9	0.003	1	1.35	0.009	0.03	<0.1	1.0	0.04	0.02	22	0.2	0.07	3.8	0.82	<0.1	0.09
073614	Soil	38.2	19.3	0.45	39.7	0.005	<1	1.43	0.003	0.03	<0.1	1.6	0.04	<0.02	19	0.2	0.04	3.9	0.85	<0.1	0.10
073615	Soil	23.0	25.4	0.58	31.0	0.005	1	1.68	0.004	0.03	<0.1	0.9	0.04	0.03	32	0.2	0.03	6.0	0.78	<0.1	0.08
073616	Soil	20.2	30.0	0.69	24.1	0.008	<1	1.93	0.003	0.02	<0.1	1.1	0.03	0.02	26	0.4	0.03	5.9	1.17	<0.1	0.07
073617	Soil	26.0	28.9	0.81	36.7	0.002	<1	2.02	0.003	0.03	<0.1	1.6	0.03	<0.02	12	0.2	0.02	5.5	1.26	<0.1	0.12
073618	Soil	19.2	18.3	0.46	46.3	0.004	<1	1.21	0.004	0.04	<0.1	2.6	0.02	<0.02	15	0.2	<0.02	3.1	0.64	<0.1	0.09
073619	Soil	18.8	17.9	0.41	21.1	0.003	<1	1.39	0.003	0.03	<0.1	1.0	0.03	0.03	39	0.3	0.07	4.3	0.66	<0.1	0.10
073620	Soil	15.5	16.6	0.31	32.3	0.007	1	1.34	0.010	0.04	<0.1	0.8	0.07	0.04	26	0.3	0.04	4.6	1.24	<0.1	0.02



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
072811	Soil	0.21	5.8	0.2	<0.05	3.3	11.74	46.8	0.09	<1	1.3	48.1	<10	<2
072812	Soil	0.06	3.4	0.2	<0.05	3.3	4.12	48.0	0.02	<1	0.3	34.2	<10	<2
072813	Soil	0.16	5.1	0.7	<0.05	2.1	4.96	31.9	0.02	<1	0.4	25.8	<10	<2
072814	Soil	0.19	4.6	0.2	<0.05	2.3	6.25	30.4	0.03	<1	0.1	24.9	<10	<2
072815	Soil	0.27	5.2	9.0	<0.05	2.0	1.79	22.6	<0.02	<1	0.3	31.2	<10	<2
072816	Soil	0.12	4.8	0.2	<0.05	2.3	4.95	35.7	0.02	<1	0.5	43.7	<10	<2
072817	Soil	0.12	4.5	0.2	<0.05	2.2	4.69	35.8	<0.02	<1	0.6	42.2	<10	<2
072818	Soil	0.25	7.0	0.3	<0.05	0.4	1.83	42.9	<0.02	<1	<0.1	7.5	<10	<2
072819	Soil	0.21	3.7	1.0	<0.05	2.0	3.98	47.0	0.03	<1	0.5	11.6	<10	<2
072820	Soil	0.18	5.8	0.2	<0.05	1.5	3.78	41.5	0.03	<1	0.6	18.4	<10	<2
073601	Soil	1.03	8.0	0.6	<0.05	0.9	4.92	31.5	0.02	1	0.5	47.2	<10	<2
073602	Soil	0.71	2.6	0.8	<0.05	0.2	1.63	50.9	<0.02	<1	<0.1	0.9	<10	<2
073603	Soil	0.22	1.9	0.9	<0.05	0.1	1.04	45.8	<0.02	<1	<0.1	3.0	<10	<2
073604	Soil	0.07	2.5	0.2	<0.05	0.3	1.23	29.8	<0.02	<1	<0.1	5.3	<10	<2
073605	Soil	0.67	3.6	0.9	<0.05	1.2	1.57	56.8	<0.02	<1	0.2	13.9	<10	<2
073606	Soil	0.09	2.3	<0.1	<0.05	2.7	2.65	34.9	<0.02	<1	0.3	61.4	<10	<2
073607	Soil	0.14	5.0	0.2	<0.05	3.2	6.73	37.7	<0.02	<1	0.4	27.7	<10	<2
073608	Soil	0.09	5.7	0.2	<0.05	4.2	7.28	50.0	0.02	<1	0.4	35.5	<10	<2
073609	Soil	0.21	6.7	0.3	<0.05	3.6	9.24	34.4	0.04	<1	0.4	29.7	<10	<2
073610	Soil	0.13	4.4	0.1	<0.05	2.4	5.43	38.9	0.03	<1	0.5	22.2	<10	<2
073611	Soil	<0.02	1.6	0.5	<0.05	1.1	8.66	13.6	0.04	<1	0.7	69.0	<10	<2
073612	Soil	0.10	3.2	0.4	<0.05	1.8	2.73	22.1	<0.02	<1	0.4	11.7	<10	<2
073613	Soil	0.14	4.2	0.4	<0.05	3.9	3.34	43.0	<0.02	<1	0.6	26.3	<10	<2
073614	Soil	0.18	5.2	0.3	<0.05	3.4	5.40	72.4	0.02	<1	0.4	34.0	<10	<2
073615	Soil	0.20	5.5	0.3	<0.05	2.4	2.37	45.3	<0.02	<1	0.3	37.3	<10	<2
073616	Soil	0.21	4.0	0.4	<0.05	3.0	2.93	39.7	<0.02	<1	0.2	43.3	<10	<2
073617	Soil	0.12	3.9	0.3	<0.05	4.1	4.36	52.9	<0.02	<1	0.5	50.1	<10	<2
073618	Soil	0.16	2.8	0.7	<0.05	3.3	9.06	36.5	<0.02	<1	0.7	25.2	<10	<2
073619	Soil	0.17	4.6	0.5	<0.05	3.4	3.89	34.2	<0.02	<1	0.6	33.0	<10	<2
073620	Soil	0.23	6.9	0.5	<0.05	1.0	3.70	30.0	<0.02	<1	0.4	19.1	<10	<2



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000271.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
073641	Soil	0.69	58.44	154.52	114.0	118	42.9	42.1	1966	4.34	28.0	1.9	5.6	21.4	10.0	0.08	1.64	0.50	12	0.11	0.034
073642	Soil	0.38	42.70	47.39	89.4	71	33.9	22.3	776	3.86	10.8	1.4	2.5	13.7	6.0	<0.01	0.64	0.56	9	0.07	0.039
073643	Soil	0.43	89.22	19.87	111.2	75	38.0	17.9	1453	4.04	4.1	1.8	6.4	23.2	9.6	0.01	0.27	0.80	11	0.11	0.041
073644	Soil	0.70	112.96	146.94	86.8	189	38.5	57.9	2201	3.94	8.6	3.4	6.7	15.3	9.5	0.05	0.35	0.98	10	0.12	0.036
073645	Soil	0.49	77.53	72.35	103.6	82	40.5	40.9	1477	4.02	8.7	3.0	3.4	16.2	10.2	0.02	0.62	0.75	10	0.14	0.037
073646	Soil	0.21	17.27	14.17	49.2	31	21.9	8.0	265	2.55	19.6	0.5	2.4	7.8	16.9	0.03	0.35	0.22	13	0.19	0.028
073647	Soil	0.18	20.57	12.99	43.5	54	20.7	8.1	416	2.30	19.4	1.1	3.4	3.4	57.9	0.05	0.36	0.22	12	0.94	0.046
073648	Soil	0.56	19.95	12.38	81.6	38	34.6	10.8	539	3.95	31.0	0.6	1.3	7.5	4.2	0.03	0.42	0.34	16	0.05	0.027
073649	Soil	0.52	32.82	25.32	92.0	25	39.2	16.4	509	4.19	31.2	1.1	1.8	8.8	7.5	0.10	0.57	0.44	15	0.08	0.033
073650	Soil	0.45	14.70	16.85	46.4	165	15.9	6.5	184	2.90	24.8	0.5	0.7	4.9	4.1	0.05	0.45	0.36	20	0.02	0.046
073541	Soil	0.69	40.30	15.97	61.4	20	24.8	10.0	309	2.98	7.7	1.2	1.6	7.2	8.0	0.06	0.54	0.39	19	0.09	0.071
073542	Soil	0.45	31.55	39.89	97.5	12	31.9	14.1	416	3.76	6.5	1.4	0.7	9.7	10.6	0.09	0.49	0.39	15	0.10	0.075
073543	Soil	0.52	26.19	19.92	81.2	39	30.0	10.2	273	3.59	5.8	1.7	0.8	12.0	8.6	0.03	0.38	0.48	15	0.05	0.077
073544	Soil	0.67	73.33	39.85	111.0	125	35.7	26.9	799	4.67	8.3	3.2	1.8	17.6	11.6	0.03	0.46	0.61	14	0.05	0.086
073545	Soil	0.50	43.78	29.25	97.4	100	30.9	14.2	407	3.49	8.1	2.6	1.5	14.0	13.1	0.09	0.83	0.49	13	0.09	0.084
073546	Soil	0.42	40.37	51.57	80.3	34	24.2	27.4	696	3.21	9.1	1.4	2.0	8.6	5.2	0.03	0.78	0.38	12	0.05	0.057
073547	Soil	0.42	23.19	21.47	63.8	35	20.1	8.8	376	2.94	5.2	0.9	1.6	3.8	5.8	0.05	0.58	0.33	14	0.05	0.062
073548	Soil	0.35	20.72	18.96	56.2	33	18.2	8.0	319	2.59	4.6	0.8	1.1	3.2	5.8	0.06	0.58	0.29	13	0.06	0.056
073549	Soil	0.93	58.34	36.06	72.3	38	38.5	35.8	1656	5.03	13.1	1.8	1.1	10.0	5.0	0.07	0.77	1.01	12	0.04	0.047
073550	Soil	0.65	45.78	82.05	95.0	45	48.7	41.9	2347	5.90	11.7	2.7	1.5	12.2	4.8	0.06	0.85	0.86	12	0.02	0.044
073701	Soil	0.31	8.75	10.42	47.5	12	17.4	6.8	169	2.62	13.6	0.4	1.0	6.8	6.4	0.02	0.27	0.19	16	0.04	0.012
073702	Soil	0.28	9.02	5.72	11.3	32	2.4	1.5	55	0.71	1.3	0.4	0.5	<0.1	4.5	0.02	0.12	0.10	12	0.03	0.047
073703	Soil	0.67	68.77	99.11	141.1	57	31.0	35.6	719	4.46	7.6	2.4	1.4	7.7	7.0	0.12	0.74	0.65	11	0.06	0.094
073704	Soil	0.34	28.59	28.14	86.3	38	32.9	16.1	580	4.07	10.3	0.9	1.5	11.8	6.8	0.04	0.67	0.48	14	0.07	0.040
073705	Soil	0.46	27.11	28.17	83.0	81	29.0	14.6	533	3.88	12.2	0.9	1.5	10.3	13.8	0.06	0.66	0.53	14	0.18	0.051
073706	Soil	0.52	16.37	22.62	63.0	75	18.9	7.6	297	2.68	8.1	0.6	0.8	6.9	3.1	0.03	0.54	0.35	12	0.01	0.037
073707	Soil	0.22	14.59	11.64	38.3	43	13.7	5.1	136	2.03	5.1	0.5	1.0	5.0	3.3	0.03	0.33	0.27	11	0.02	0.027
073708	Soil	0.21	10.42	10.60	32.5	211	10.8	4.5	139	1.50	3.7	0.4	0.9	3.0	3.9	0.02	0.22	0.19	9	0.02	0.028
073709	Soil	0.22	26.93	19.54	76.7	64	28.1	9.9	268	3.64	8.6	0.8	1.2	10.3	5.7	0.03	0.50	0.48	13	0.05	0.044
073710	Soil	0.23	19.74	16.59	62.5	37	23.8	9.8	262	2.78	6.5	0.6	0.8	7.5	6.3	0.03	0.35	0.32	10	0.06	0.045



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000271.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	B ppm	Al %	Na %	K %	W ppm	Sc ppm	Tl ppm	S %	Hg ppb	Se ppm	Te ppm	Ga ppm	Cs ppm	Ge ppm	Hf ppm
073641 Soil	30.6	25.3	0.73	35.9	<0.001	<1	1.85	0.005	0.03	<0.1	3.0	0.04	<0.02	16	<0.1	0.03	5.2	1.58	<0.1	0.08
073642 Soil	34.8	22.5	0.68	21.8	0.001	<1	1.67	0.003	0.03	<0.1	1.8	0.02	<0.02	17	<0.1	<0.02	4.7	0.98	<0.1	0.07
073643 Soil	49.3	25.1	0.82	69.8	0.002	<1	1.81	0.006	0.04	<0.1	2.4	0.02	<0.02	31	<0.1	0.04	4.4	2.52	<0.1	0.07
073644 Soil	29.4	22.5	0.75	96.1	0.001	<1	1.89	0.005	0.05	<0.1	2.6	0.04	<0.02	47	<0.1	0.06	4.9	3.36	<0.1	0.08
073645 Soil	27.4	22.9	0.73	64.8	0.001	<1	1.89	0.004	0.04	<0.1	2.5	0.04	<0.02	15	0.1	<0.02	4.7	2.72	<0.1	0.13
073646 Soil	23.1	18.2	0.48	32.7	0.012	<1	1.22	0.008	0.04	0.1	2.3	0.06	<0.02	18	<0.1	0.02	3.3	0.60	<0.1	0.04
073647 Soil	16.3	16.7	0.42	54.1	0.010	1	1.21	0.011	0.04	0.1	1.9	0.05	0.03	21	0.2	0.03	3.4	0.64	<0.1	0.03
073648 Soil	28.0	27.5	0.79	16.3	0.002	<1	1.75	0.002	0.03	<0.1	1.4	<0.02	<0.02	9	<0.1	0.05	5.9	0.54	<0.1	0.03
073649 Soil	26.4	29.4	0.80	18.3	0.001	<1	1.91	0.003	0.03	<0.1	2.0	0.02	<0.02	19	<0.1	0.08	5.5	0.72	<0.1	0.06
073650 Soil	21.0	15.0	0.32	25.2	0.008	<1	1.08	0.006	0.02	0.1	1.1	0.03	<0.02	15	0.2	0.08	5.0	0.46	<0.1	<0.02
073541 Soil	29.8	19.4	0.54	29.4	0.011	<1	1.52	0.002	0.03	0.1	1.2	0.07	<0.02	12	0.2	0.03	4.1	0.97	<0.1	0.05
073542 Soil	36.7	24.3	0.70	18.4	0.010	<1	1.85	0.002	0.03	<0.1	1.5	0.04	<0.02	12	0.2	0.02	4.6	0.66	<0.1	0.12
073543 Soil	60.0	23.0	0.68	18.9	0.006	<1	1.74	0.004	0.04	<0.1	1.6	0.05	<0.02	11	0.3	0.03	4.8	0.85	<0.1	0.09
073544 Soil	69.8	26.2	0.85	17.3	0.004	<1	2.17	0.003	0.04	<0.1	2.2	0.04	<0.02	12	0.3	0.05	5.3	1.26	<0.1	0.09
073545 Soil	47.1	19.7	0.60	29.2	0.007	<1	1.63	0.004	0.05	<0.1	2.3	0.05	<0.02	12	0.2	0.03	3.8	1.35	<0.1	0.06
073546 Soil	14.4	17.2	0.47	29.6	0.003	<1	1.67	0.009	0.03	<0.1	1.5	0.06	0.02	23	0.4	0.02	4.0	1.94	<0.1	0.21
073547 Soil	18.0	16.3	0.40	35.1	0.007	1	1.30	0.008	0.03	<0.1	1.4	0.04	0.03	34	<0.1	0.04	3.9	0.85	<0.1	0.08
073548 Soil	16.0	14.1	0.36	30.6	0.008	<1	1.17	0.011	0.03	<0.1	1.1	0.03	0.03	23	0.1	<0.02	3.8	0.71	<0.1	0.07
073549 Soil	26.7	23.9	0.71	35.3	0.002	<1	2.03	0.001	0.02	<0.1	1.8	0.03	<0.02	13	<0.1	0.10	5.3	1.20	<0.1	0.13
073550 Soil	19.5	22.2	0.59	31.3	0.002	<1	1.98	0.002	0.02	<0.1	3.6	0.04	<0.02	38	<0.1	0.16	4.5	1.13	<0.1	0.17
073701 Soil	27.1	18.2	0.46	48.2	0.006	<1	1.36	0.003	0.05	0.1	1.5	0.06	<0.02	8	<0.1	0.03	4.4	0.71	<0.1	0.05
073702 Soil	3.8	3.8	0.06	15.7	0.010	<1	0.53	0.024	0.03	<0.1	0.2	0.03	0.04	24	<0.1	<0.02	2.5	0.50	<0.1	<0.02
073703 Soil	19.0	20.4	0.56	29.6	0.001	<1	1.94	0.002	0.05	<0.1	1.3	0.06	0.04	40	<0.1	<0.02	5.2	1.49	<0.1	0.12
073704 Soil	24.6	23.9	0.68	23.7	0.002	1	1.76	0.002	0.04	<0.1	1.7	0.03	<0.02	15	<0.1	0.04	5.1	0.58	<0.1	0.06
073705 Soil	23.6	21.5	0.58	39.1	0.003	1	1.67	0.004	0.06	<0.1	1.5	0.03	<0.02	16	<0.1	0.04	5.4	0.73	<0.1	0.03
073706 Soil	23.2	18.0	0.43	31.2	0.002	<1	1.26	0.006	0.06	<0.1	1.0	0.04	<0.02	16	<0.1	0.05	4.6	0.88	<0.1	0.05
073707 Soil	20.4	11.5	0.29	21.7	0.004	<1	0.91	0.009	0.03	<0.1	0.8	0.03	<0.02	13	<0.1	0.03	3.5	0.50	<0.1	0.05
073708 Soil	13.6	9.3	0.23	23.2	0.004	<1	0.74	0.014	0.03	<0.1	0.7	0.02	<0.02	11	<0.1	<0.02	2.8	0.42	<0.1	<0.02
073709 Soil	30.4	23.0	0.61	41.5	0.002	<1	1.78	0.004	0.07	<0.1	1.4	0.04	<0.02	13	<0.1	0.05	5.6	0.72	<0.1	0.05
073710 Soil	20.7	18.0	0.53	21.5	0.004	<1	1.31	0.008	0.04	<0.1	1.1	<0.02	<0.02	11	<0.1	<0.02	3.8	0.42	<0.1	0.05



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	2
073641	Soil	0.11	2.9	1.0	<0.05	4.0	7.64	58.4	0.03	<1	0.7	66.4	<10	<2
073642	Soil	0.03	2.4	1.4	<0.05	3.6	5.12	66.2	0.03	<1	0.6	55.6	<10	<2
073643	Soil	0.06	2.9	1.2	<0.05	5.7	9.25	91.3	<0.02	<1	0.6	62.6	<10	2
073644	Soil	0.04	3.6	0.4	<0.05	4.6	11.26	55.1	<0.02	<1	0.7	61.8	<10	<2
073645	Soil	0.04	3.4	0.5	<0.05	5.3	10.24	51.1	<0.02	<1	1.2	61.9	<10	<2
073646	Soil	0.74	5.2	0.5	<0.05	2.0	5.49	43.8	0.02	<1	0.5	32.4	<10	<2
073647	Soil	0.83	5.5	0.3	<0.05	1.6	5.32	30.8	<0.02	<1	0.3	26.5	<10	<2
073648	Soil	0.13	3.3	0.4	<0.05	3.3	1.81	51.6	0.02	<1	0.1	53.5	<10	<2
073649	Soil	0.13	3.9	0.7	<0.05	3.2	2.61	49.3	<0.02	<1	0.3	58.3	<10	<2
073650	Soil	0.75	3.9	0.8	<0.05	0.7	1.35	39.8	0.03	<1	0.1	25.2	<10	<2
073541	Soil	0.28	4.4	0.3	<0.05	1.8	5.10	56.3	0.02	<1	0.5	34.1	<10	<2
073542	Soil	0.29	3.4	0.2	<0.05	5.2	5.01	70.5	0.02	<1	0.4	53.6	<10	<2
073543	Soil	0.16	5.7	0.6	<0.05	3.1	5.22	111.9	<0.02	<1	0.2	45.7	<10	<2
073544	Soil	0.33	3.8	0.3	<0.05	3.8	7.67	130.7	<0.02	<1	0.5	61.2	<10	<2
073545	Soil	0.19	5.2	0.3	<0.05	2.6	10.00	91.7	0.04	<1	0.7	42.2	<10	<2
073546	Soil	0.13	4.6	0.6	<0.05	7.8	6.01	28.3	<0.02	<1	0.6	33.6	<10	<2
073547	Soil	0.24	5.2	0.4	<0.05	1.8	4.46	34.4	<0.02	<1	0.4	31.4	<10	<2
073548	Soil	0.24	4.5	0.3	<0.05	1.8	3.79	31.1	<0.02	<1	0.3	27.0	<10	<2
073549	Soil	0.08	3.0	0.3	<0.05	5.4	9.16	49.3	0.07	<1	0.9	57.5	<10	<2
073550	Soil	0.07	3.2	0.5	<0.05	7.1	11.20	39.7	0.04	<1	1.0	46.1	<10	<2
073701	Soil	0.65	7.9	0.4	<0.05	2.6	1.98	52.5	<0.02	<1	<0.1	40.0	<10	<2
073702	Soil	0.11	2.7	0.3	<0.05	0.4	0.75	7.6	<0.02	<1	<0.1	1.8	<10	<2
073703	Soil	0.10	4.7	1.0	<0.05	3.4	4.34	38.6	<0.02	<1	0.9	41.5	<10	<2
073704	Soil	0.09	3.9	0.7	<0.05	2.5	3.53	47.9	<0.02	<1	0.3	55.2	<10	<2
073705	Soil	0.17	6.0	0.9	<0.05	1.6	3.58	45.4	0.02	<1	0.6	46.8	<10	<2
073706	Soil	0.09	6.2	1.4	<0.05	1.2	2.09	43.4	<0.02	<1	0.2	30.3	<10	<2
073707	Soil	0.14	4.0	0.5	<0.05	1.0	2.10	37.4	<0.02	<1	0.3	19.9	<10	<2
073708	Soil	0.14	3.4	0.7	<0.05	1.0	1.75	25.7	<0.02	<1	0.2	17.5	<10	<2
073709	Soil	0.09	6.7	0.4	<0.05	2.3	3.34	57.5	<0.02	<1	0.6	48.8	<10	<2
073710	Soil	0.10	2.8	0.4	<0.05	1.4	2.64	39.3	0.02	<1	0.4	38.6	<10	<2



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000271.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
073711	Soil	0.28	33.99	27.88	85.8	62	31.2	14.5	472	3.77	8.8	0.9	1.6	11.2	10.5	0.03	0.57	0.52	12	0.12	0.047
073712	Soil	0.30	29.14	24.64	82.9	71	30.3	13.0	436	3.43	10.9	1.1	2.0	10.4	27.1	0.06	0.78	0.42	11	0.46	0.054
073713	Soil	0.27	31.19	25.55	79.5	44	31.8	15.1	524	3.60	10.2	1.4	1.4	12.0	18.6	0.07	0.65	0.48	11	0.25	0.040
073714	Soil	0.39	33.48	26.65	84.6	36	35.3	15.0	463	3.75	9.8	1.2	1.6	12.3	11.8	0.04	0.62	0.47	12	0.14	0.049
073715	Soil	0.27	23.91	19.74	76.2	17	28.4	11.9	311	3.49	7.7	0.9	1.1	11.9	7.9	0.04	0.44	0.41	13	0.08	0.027
073716	Soil	0.26	13.39	11.69	62.0	21	21.1	7.5	207	2.64	4.9	0.7	0.9	8.1	8.6	0.03	0.34	0.29	12	0.11	0.030
073717	Soil	0.27	29.78	21.14	75.7	69	26.9	11.3	412	3.23	9.2	1.4	2.1	8.9	22.2	0.05	0.59	0.46	11	0.36	0.053
073718	Soil	0.33	13.46	14.50	68.4	17	22.0	7.2	221	3.14	5.5	0.8	4.6	10.2	3.5	0.05	0.40	0.35	13	0.02	0.021
073719	Soil	0.43	19.81	19.53	34.8	41	14.7	12.4	269	2.54	6.4	0.7	0.6	6.4	8.2	0.03	0.50	0.39	13	0.09	0.025
073720	Soil	0.22	33.02	34.19	94.4	60	35.2	17.1	544	4.10	6.7	1.2	1.9	12.3	40.1	0.05	0.34	0.49	10	0.62	0.049
073721	Soil	0.22	19.39	25.03	79.6	45	25.3	11.3	358	3.23	8.3	0.9	2.5	9.8	22.4	0.04	0.42	0.36	10	0.35	0.034
073722	Soil	0.39	36.23	34.21	106.2	64	31.4	18.3	601	4.08	6.4	1.7	1.0	8.2	31.0	0.10	0.45	0.47	12	0.54	0.057
073723	Soil	0.29	35.52	23.65	78.9	89	32.8	13.8	438	3.74	7.6	1.5	2.0	10.3	34.4	0.05	0.47	0.44	11	0.54	0.050
073724	Soil	0.51	7.18	11.22	32.4	55	9.7	5.8	243	2.99	5.1	0.3	0.4	3.5	3.6	0.04	0.23	0.29	20	0.02	0.057
073725	Soil	0.27	32.57	25.55	96.7	65	36.8	17.0	486	4.01	6.9	1.1	1.4	15.7	19.0	0.02	0.30	0.43	13	0.20	0.041
073726	Soil	0.24	25.00	20.88	71.7	53	32.2	13.4	523	3.58	7.9	1.1	1.2	6.9	32.7	0.05	0.30	0.37	13	0.60	0.042
073727	Soil	0.19	29.40	19.60	76.7	53	30.4	13.1	452	3.36	6.7	0.9	1.3	10.2	13.5	0.04	0.33	0.37	11	0.19	0.040
073728	Soil	0.30	47.92	18.97	86.2	33	37.2	17.0	726	3.68	5.6	0.9	1.9	12.8	8.2	0.02	0.25	0.40	15	0.12	0.047
073729	Soil	0.19	21.59	16.64	67.6	18	29.0	13.8	499	3.26	5.5	0.6	0.8	10.5	6.2	0.02	0.21	0.31	14	0.05	0.038
073730	Soil	0.35	27.65	22.30	47.8	42	16.3	10.4	461	2.40	7.6	1.1	0.5	5.4	5.7	0.05	0.52	0.30	10	0.06	0.054
070261	Soil	0.39	42.79	50.43	94.8	124	34.3	20.1	1270	4.63	7.5	2.2	2.2	10.6	21.7	0.08	0.38	0.65	13	0.24	0.077
070262	Soil	0.61	59.83	66.72	148.4	177	45.0	25.2	1246	5.19	33.1	2.9	5.4	21.8	28.0	0.15	0.70	0.74	14	0.31	0.086
070263	Soil	0.47	65.04	88.14	161.6	179	47.7	31.8	1084	5.16	109.9	2.5	13.6	21.9	23.1	0.10	0.94	0.67	12	0.28	0.094
070264	Soil	0.54	29.89	23.89	63.5	176	27.3	13.6	809	3.11	25.8	2.2	1.3	3.9	68.7	0.33	0.34	0.36	21	0.71	0.039
070265	Soil	0.37	22.70	23.35	52.8	59	24.2	10.3	386	3.03	33.3	2.2	7.0	5.5	46.8	0.09	0.44	0.42	13	0.43	0.028
070266	Soil	0.33	38.00	13.89	40.7	115	20.3	7.0	346	1.93	16.6	6.8	2.3	1.7	166.4	0.20	0.54	0.28	9	2.19	0.058
070267	Soil	0.43	21.46	19.08	56.8	139	22.6	10.8	596	2.70	20.2	2.7	5.2	2.7	82.2	0.24	0.33	0.36	15	1.02	0.046
070268	Soil	0.32	15.23	19.07	41.2	113	18.7	9.9	482	2.37	17.7	1.3	3.0	4.2	47.4	0.08	0.32	0.33	11	0.60	0.043
070269	Soil	0.24	16.36	14.87	59.1	73	23.3	9.0	392	2.71	17.5	1.5	<0.2	6.5	22.6	0.06	0.27	0.29	14	0.23	0.024
070270	Soil	0.28	22.63	15.44	59.4	140	21.8	9.7	588	2.69	20.4	3.5	1.0	3.5	91.1	0.25	0.28	0.31	14	1.22	0.048



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000271.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
073711	Soil	25.7	21.8	0.59	49.3	0.002	1	1.84	0.005	0.08	<0.1	1.7	0.04	<0.02	20	<0.1	0.05	5.0	0.75	<0.1	0.07
073712	Soil	21.5	21.0	0.59	35.5	0.003	<1	1.64	0.005	0.05	<0.1	1.8	0.02	<0.02	18	<0.1	0.04	4.5	0.38	<0.1	0.09
073713	Soil	25.0	21.3	0.59	45.4	0.003	<1	1.72	0.005	0.06	<0.1	1.8	0.03	<0.02	18	<0.1	0.06	4.6	0.56	<0.1	0.10
073714	Soil	29.3	23.4	0.65	34.1	0.003	<1	1.78	0.004	0.05	<0.1	1.9	0.02	<0.02	12	<0.1	0.05	4.9	0.51	<0.1	0.07
073715	Soil	30.5	21.9	0.59	35.9	0.003	2	1.69	0.004	0.06	<0.1	1.6	0.03	<0.02	15	<0.1	0.03	5.2	0.70	<0.1	0.06
073716	Soil	23.6	17.7	0.50	22.5	0.004	<1	1.27	0.008	0.04	<0.1	1.2	0.02	<0.02	8	<0.1	<0.02	3.8	0.56	<0.1	0.04
073717	Soil	17.8	19.8	0.52	42.7	0.003	<1	1.57	0.007	0.05	<0.1	2.0	0.03	0.03	28	0.2	0.04	4.5	0.53	<0.1	0.08
073718	Soil	30.2	19.1	0.49	17.7	0.004	<1	1.26	0.004	0.03	<0.1	1.2	0.03	<0.02	16	<0.1	0.03	4.3	0.76	<0.1	0.05
073719	Soil	21.4	11.3	0.26	19.6	0.009	<1	0.88	0.012	0.03	<0.1	0.9	0.03	<0.02	13	<0.1	0.02	4.0	0.82	<0.1	0.02
073720	Soil	16.9	21.4	0.65	27.9	0.003	<1	1.71	0.006	0.04	<0.1	3.6	0.02	0.02	33	<0.1	0.04	4.4	0.59	<0.1	0.05
073721	Soil	18.1	18.3	0.49	35.9	0.003	<1	1.32	0.003	0.05	<0.1	2.2	0.02	0.02	17	<0.1	0.03	3.7	0.72	<0.1	0.05
073722	Soil	15.7	23.9	0.62	32.0	0.002	<1	1.80	0.005	0.03	<0.1	2.0	0.03	0.03	24	0.1	<0.02	5.6	1.09	<0.1	0.08
073723	Soil	15.1	21.2	0.59	25.7	0.004	<1	1.69	0.006	0.04	<0.1	2.0	0.03	0.02	20	<0.1	0.03	4.8	1.15	<0.1	0.08
073724	Soil	12.8	13.8	0.18	16.6	0.014	<1	0.81	0.013	0.03	0.2	0.7	0.03	<0.02	25	0.2	0.03	4.9	0.84	<0.1	<0.02
073725	Soil	31.7	26.0	0.72	33.0	0.004	<1	1.92	0.004	0.08	<0.1	2.5	0.02	<0.02	21	<0.1	0.04	5.1	1.21	<0.1	0.11
073726	Soil	23.7	23.8	0.61	60.0	0.004	1	1.75	0.007	0.07	0.1	1.9	0.03	<0.02	20	<0.1	0.04	4.6	0.71	<0.1	0.04
073727	Soil	29.8	21.6	0.60	62.6	0.003	<1	1.70	0.004	0.09	<0.1	2.0	0.02	<0.02	15	<0.1	<0.02	4.6	0.53	<0.1	0.06
073728	Soil	36.5	26.3	0.72	72.6	0.006	<1	1.67	0.006	0.07	0.2	2.1	<0.02	<0.02	14	<0.1	0.03	4.6	1.64	<0.1	0.05
073729	Soil	43.0	22.9	0.59	37.9	0.005	<1	1.60	0.007	0.07	<0.1	1.6	0.03	<0.02	10	<0.1	<0.02	4.4	0.57	<0.1	0.02
073730	Soil	16.6	11.6	0.33	22.7	0.006	<1	1.08	0.014	0.03	<0.1	0.8	0.03	0.03	23	<0.1	0.02	3.2	0.71	<0.1	0.06
070261	Soil	12.5	23.1	0.60	39.5	0.003	<1	1.83	0.008	0.03	<0.1	4.5	0.04	0.04	38	0.2	0.05	4.9	0.58	<0.1	0.17
070262	Soil	19.5	27.9	0.82	34.7	0.004	<1	2.07	0.004	0.05	<0.1	4.7	0.05	<0.02	30	<0.1	0.05	5.4	1.05	<0.1	0.14
070263	Soil	23.1	25.8	0.83	33.5	0.004	<1	2.06	0.004	0.03	<0.1	4.2	0.03	<0.02	17	<0.1	0.04	5.1	1.02	<0.1	0.21
070264	Soil	19.9	23.3	0.50	48.0	0.011	<1	1.57	0.006	0.04	0.2	2.0	0.06	0.02	15	0.2	0.04	5.4	1.00	<0.1	<0.02
070265	Soil	19.7	18.8	0.49	36.7	0.010	<1	1.58	0.012	0.04	0.2	1.9	0.06	<0.02	23	<0.1	0.05	4.4	0.84	<0.1	0.04
070266	Soil	11.2	13.8	0.38	50.2	0.011	3	1.27	0.014	0.04	<0.1	1.4	0.06	0.08	52	0.9	<0.02	3.0	0.60	<0.1	0.05
070267	Soil	15.8	19.2	0.47	54.2	0.010	<1	1.40	0.007	0.04	0.2	1.5	0.05	0.04	16	0.3	0.04	4.3	0.81	<0.1	0.04
070268	Soil	14.7	16.5	0.40	55.2	0.007	<1	1.27	0.008	0.03	<0.1	1.6	0.05	0.03	25	<0.1	0.03	3.8	0.65	<0.1	0.04
070269	Soil	21.8	20.3	0.49	56.8	0.011	<1	1.49	0.009	0.04	0.2	2.2	0.07	<0.02	21	<0.1	0.03	4.3	0.86	<0.1	0.02
070270	Soil	16.9	18.0	0.50	52.4	0.020	<1	1.40	0.008	0.08	0.1	2.4	0.10	0.03	17	0.5	<0.02	4.1	1.62	<0.1	0.04



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000271.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
073711	Soil	0.10	6.5	0.7	<0.05	2.0	5.27	49.4	0.02	<1	0.7	49.3	<10	<2
073712	Soil	0.12	3.3	0.7	<0.05	4.8	6.62	41.4	<0.02	<1	0.4	46.2	<10	<2
073713	Soil	0.13	5.1	0.5	<0.05	3.8	5.33	49.2	0.02	<1	0.6	47.8	<10	<2
073714	Soil	0.10	3.8	1.0	<0.05	3.4	5.67	56.8	<0.02	<1	0.3	50.0	<10	<2
073715	Soil	0.17	5.3	0.6	<0.05	3.0	3.48	58.3	<0.02	<1	0.4	48.4	<10	<2
073716	Soil	0.20	4.2	0.6	<0.05	1.7	2.48	44.7	<0.02	<1	0.2	35.7	<10	<2
073717	Soil	0.21	4.9	0.4	<0.05	3.4	6.00	34.6	<0.02	<1	0.4	42.4	<10	<2
073718	Soil	0.22	4.4	0.7	<0.05	2.5	2.36	56.6	<0.02	<1	0.1	35.6	<10	<2
073719	Soil	0.28	2.6	0.6	<0.05	0.6	2.07	38.9	<0.02	<1	0.3	19.0	<10	<2
073720	Soil	0.11	3.0	0.3	<0.05	3.3	11.36	34.6	0.04	<1	0.4	47.3	<10	<2
073721	Soil	0.10	3.9	0.4	<0.05	1.7	5.32	35.1	0.02	<1	0.2	33.3	<10	<2
073722	Soil	0.11	3.9	0.5	<0.05	2.3	4.47	29.4	0.03	<1	0.6	57.4	<10	<2
073723	Soil	0.13	3.6	0.4	<0.05	3.1	6.07	28.3	0.03	<1	0.5	49.2	<10	<2
073724	Soil	0.50	4.2	1.2	<0.05	0.5	1.15	25.4	<0.02	<1	0.1	12.1	<10	<2
073725	Soil	0.05	4.2	0.7	<0.05	5.5	6.96	59.4	0.02	<1	0.7	56.0	<10	<2
073726	Soil	0.14	5.0	0.4	<0.05	2.0	5.07	47.1	0.03	<1	0.5	46.5	<10	<2
073727	Soil	0.06	5.3	0.6	<0.05	2.6	4.88	57.6	<0.02	<1	0.7	45.1	<10	<2
073728	Soil	0.04	3.8	0.6	<0.05	2.5	5.05	71.5	<0.02	<1	0.7	49.4	<10	<2
073729	Soil	0.05	4.2	0.5	<0.05	1.2	4.95	82.6	<0.02	<1	0.2	44.0	<10	<2
073730	Soil	0.17	3.2	0.8	<0.05	1.8	2.41	31.8	<0.02	<1	0.4	24.4	<10	2
070261	Soil	0.10	3.7	0.3	<0.05	5.0	14.17	23.9	0.04	<1	0.4	56.9	<10	<2
070262	Soil	0.05	3.9	1.1	<0.05	7.1	15.27	38.3	0.03	<1	0.7	70.4	<10	<2
070263	Soil	0.03	2.6	0.3	<0.05	14.3	14.57	48.7	0.04	<1	0.9	68.9	<10	<2
070264	Soil	0.97	8.9	0.6	<0.05	1.3	4.32	36.8	0.02	<1	0.4	42.0	<10	<2
070265	Soil	0.78	7.1	0.6	<0.05	1.9	6.25	36.1	0.03	1	0.3	36.8	<10	<2
070266	Soil	0.88	5.7	0.2	<0.05	2.8	6.60	18.3	<0.02	<1	0.5	26.9	<10	<2
070267	Soil	0.97	7.6	0.9	<0.05	1.3	4.20	31.4	0.02	<1	0.3	34.8	<10	<2
070268	Soil	0.52	5.4	0.4	<0.05	1.7	3.28	27.1	<0.02	<1	0.3	33.6	<10	<2
070269	Soil	0.80	9.4	0.5	<0.05	1.0	5.25	40.4	<0.02	<1	0.4	43.0	<10	<2
070270	Soil	2.04	17.1	0.8	<0.05	1.1	6.00	33.3	<0.02	<1	0.5	39.2	<10	<2



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000271.1

Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
072721	Soil	0.44	43.03	31.79	101.6	63	47.2	20.9	885	4.20	25.4	1.8	11.1	9.0	14.0	0.18	0.71	0.44	16	0.32	0.074
072722	Soil	0.65	51.94	27.57	90.8	94	39.9	16.9	597	3.66	27.5	6.9	20.5	7.8	30.6	0.10	0.64	0.49	12	0.39	0.065
072723	Soil	0.75	51.45	26.86	78.8	137	33.5	15.6	577	3.16	14.6	3.9	3.9	6.2	52.9	0.15	0.52	0.42	11	0.72	0.064
072724	Soil	0.40	32.27	25.31	81.3	76	36.6	12.7	415	4.26	23.3	0.8	4.3	8.6	5.6	0.05	0.47	0.54	15	0.03	0.039
072725	Soil	0.67	49.42	35.68	92.6	212	45.5	17.5	539	4.42	22.0	1.6	5.6	12.0	8.3	0.05	0.61	0.51	13	0.08	0.036
072726	Soil	0.84	17.53	39.94	50.4	104	16.3	10.9	429	2.40	34.4	0.8	4.8	3.4	9.3	0.14	0.45	0.34	15	0.18	0.062
072727	Soil	1.39	81.73	87.43	170.5	646	60.2	28.4	765	6.54	897.5	5.2	100.0	6.9	8.0	0.37	4.01	0.71	7	0.13	0.046
072728	Soil	1.07	124.64	98.92	204.9	322	81.4	60.9	2075	6.44	101.0	3.2	11.9	17.0	11.7	0.34	4.09	1.33	10	0.14	0.029
072729	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.
072730	Soil	0.63	35.26	39.04	108.3	102	27.0	18.9	1120	3.39	50.2	1.3	5.8	2.7	10.6	0.42	0.79	0.50	11	0.23	0.082
072871	Soil	0.31	32.35	24.10	71.0	89	34.9	14.2	552	3.31	59.2	1.0	9.5	8.4	27.1	0.05	0.81	0.34	12	0.38	0.028
072872	Soil	0.54	40.21	28.59	79.4	125	37.5	19.1	642	3.47	80.5	1.6	10.5	7.7	27.0	0.09	1.61	0.38	11	0.29	0.041
072873	Soil	0.49	49.29	24.31	49.3	385	26.0	10.9	498	2.50	44.8	1.7	2.1	3.6	46.9	0.20	0.57	0.35	13	0.75	0.042
072874	Soil	0.48	35.38	28.29	78.9	95	35.4	18.0	711	3.76	53.9	1.3	5.5	8.6	20.5	0.12	0.61	0.40	14	0.29	0.042
072875	Soil	0.23	12.03	10.31	37.3	42	15.1	4.8	144	1.78	25.7	0.4	4.9	3.8	5.6	0.03	0.29	0.16	9	0.03	0.023
072876	Soil	0.33	24.91	29.86	105.4	202	29.1	11.6	601	3.39	323.5	1.3	5.3	5.2	19.5	0.34	0.51	0.82	12	0.29	0.067
072877	Soil	0.32	17.80	26.55	66.8	174	27.4	11.0	868	3.08	61.2	0.9	0.9	5.5	54.0	0.11	0.60	0.40	8	0.46	0.054
072878	Soil	0.48	15.77	23.35	53.0	71	15.9	7.2	226	2.50	367.1	0.7	1.6	3.4	13.3	0.30	2.17	0.37	9	0.09	0.027
072879	Soil	0.43	31.78	30.37	81.8	182	34.3	13.4	384	3.62	253.6	1.9	12.9	6.4	20.5	0.14	0.47	0.79	13	0.44	0.049
072880	Soil	0.45	24.44	28.97	87.2	334	30.2	12.2	494	3.64	81.9	0.8	8.4	5.4	5.4	0.23	0.44	0.58	14	0.02	0.049
072911	Soil	0.77	25.62	23.64	60.4	84	17.7	9.9	609	3.72	8.1	1.4	0.6	1.7	4.5	0.14	1.00	0.61	18	0.02	0.111
072912	Soil	0.41	30.89	32.37	108.3	40	35.1	17.7	837	4.36	7.1	1.7	<0.2	10.9	5.8	0.08	0.59	0.50	15	0.03	0.053
072913	Soil	0.57	45.99	27.70	79.8	47	29.0	22.4	1064	3.72	4.7	1.5	<0.2	8.6	6.0	0.06	0.32	0.50	14	0.04	0.062
072914	Soil	0.50	30.66	22.13	83.3	61	29.3	15.0	729	3.41	7.0	1.6	0.3	5.3	5.8	0.08	0.45	0.47	16	0.03	0.061
072915	Soil	0.47	26.70	43.73	72.7	41	25.6	13.3	648	3.39	8.5	1.2	2.5	4.9	5.3	0.05	0.47	0.46	15	0.03	0.084
072916	Soil	0.50	49.59	48.96	90.2	145	38.1	31.3	997	4.08	13.4	1.7	2.1	12.2	7.5	0.05	1.00	0.51	13	0.07	0.038
072917	Soil	0.40	32.26	18.55	88.4	38	30.0	15.6	800	3.74	5.0	1.5	2.2	9.5	5.1	0.07	0.39	0.57	10	0.03	0.052
072918	Soil	0.30	47.16	21.66	116.4	69	33.2	25.9	1267	4.77	3.4	3.1	2.9	12.5	4.9	0.05	0.65	0.55	8	0.01	0.040
072919	Soil	0.49	29.44	23.56	99.1	92	42.6	13.7	491	4.30	40.5	2.9	3.7	9.2	36.9	0.04	0.49	0.48	15	0.41	0.061
072920	Soil	0.31	21.65	20.08	55.9	3	28.6	11.0	241	3.73	28.8	0.6	4.7	10.1	8.4	0.02	0.53	0.35	16	<0.01	0.019



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000271.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
072721	Soil	19.7	36.7	1.07	45.4	0.007	<1	2.05	0.006	0.04	<0.1	2.5	0.02	0.03	34	<0.1	0.06	5.4	1.27	0.1	0.11
072722	Soil	13.4	26.4	0.75	36.3	0.002	<1	1.73	0.004	0.03	<0.1	2.5	0.03	0.04	30	0.4	0.08	4.8	1.49	<0.1	0.15
072723	Soil	9.6	22.9	0.60	32.7	0.003	<1	1.51	0.006	0.03	<0.1	1.5	0.03	0.05	22	0.4	0.03	4.6	1.61	<0.1	0.11
072724	Soil	22.3	27.5	0.79	23.2	0.002	<1	2.02	0.003	0.03	<0.1	1.5	0.03	<0.02	16	<0.1	0.04	5.5	0.83	<0.1	0.07
072725	Soil	27.5	29.2	0.79	28.3	0.002	<1	1.96	0.003	0.04	<0.1	2.2	0.03	<0.02	18	0.4	0.08	4.7	0.98	0.2	0.04
072726	Soil	15.6	14.2	0.21	30.1	0.003	<1	0.90	0.003	0.03	<0.1	1.0	0.05	0.05	32	0.3	0.07	3.6	1.91	0.1	<0.02
072727	Soil	24.3	9.1	0.15	26.5	0.002	1	0.50	0.004	0.04	<0.1	2.6	0.03	0.02	22	0.1	0.13	1.5	1.73	0.1	0.05
072728	Soil	16.6	18.6	0.58	29.2	0.001	<1	1.53	0.004	0.06	<0.1	5.0	0.05	0.02	12	<0.1	0.31	3.2	3.33	0.2	0.34
072729	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.
072730	Soil	11.0	15.7	0.36	37.1	0.003	<1	0.97	0.005	0.04	<0.1	1.1	0.03	0.05	20	0.3	0.07	3.4	1.43	<0.1	0.05
072871	Soil	22.3	22.4	0.51	41.5	0.003	<1	1.43	0.006	0.06	0.2	2.5	0.05	<0.02	19	<0.1	0.06	3.9	0.84	0.2	0.08
072872	Soil	22.7	16.5	0.40	42.1	0.003	<1	1.21	0.006	0.05	0.1	2.3	0.04	<0.02	17	0.2	0.06	3.4	1.29	0.1	0.05
072873	Soil	14.3	14.1	0.24	69.7	0.005	<1	1.26	0.015	0.06	0.1	1.9	0.06	0.03	32	<0.1	0.04	4.1	2.20	<0.1	0.05
072874	Soil	24.6	25.4	0.58	63.6	0.003	<1	1.77	0.007	0.08	0.2	2.3	0.06	<0.02	25	0.4	0.10	4.9	1.78	<0.1	0.04
072875	Soil	14.9	11.5	0.27	20.3	0.004	<1	0.80	0.009	0.04	0.1	0.8	0.03	<0.02	13	0.2	0.07	2.9	0.48	0.1	0.02
072876	Soil	14.0	22.9	0.55	51.1	0.002	<1	1.61	0.005	0.04	0.2	1.7	0.05	0.03	19	0.8	0.05	4.9	2.17	<0.1	0.08
072877	Soil	19.0	11.3	0.23	55.6	0.005	<1	0.80	0.004	0.03	<0.1	3.8	0.04	0.02	41	0.3	0.03	2.2	1.52	0.1	0.04
072878	Soil	17.2	7.2	0.10	31.7	0.003	<1	0.52	0.005	0.03	<0.1	1.6	0.04	<0.02	15	0.3	0.04	2.1	3.03	0.2	<0.02
072879	Soil	20.6	24.0	0.56	50.7	0.003	<1	1.65	0.006	0.05	0.1	2.3	0.05	0.04	20	0.6	0.05	5.3	2.12	0.2	0.09
072880	Soil	20.6	21.2	0.53	34.3	0.002	<1	1.58	0.006	0.03	<0.1	1.5	0.04	<0.02	26	<0.1	0.06	5.0	1.41	<0.1	0.07
072911	Soil	9.4	18.3	0.32	38.9	0.010	<1	1.37	0.002	0.04	<0.1	0.6	0.08	0.08	76	0.4	<0.02	5.4	1.22	0.3	<0.02
072912	Soil	29.5	24.9	0.83	27.6	0.007	<1	2.14	0.003	0.04	<0.1	1.8	0.05	<0.02	10	<0.1	0.04	5.7	0.98	<0.1	0.05
072913	Soil	28.6	20.1	0.60	27.8	0.009	<1	1.75	0.006	0.04	0.1	1.7	0.05	<0.02	22	0.1	<0.02	4.8	1.10	<0.1	0.07
072914	Soil	31.0	22.3	0.62	31.7	0.011	<1	1.68	0.005	0.04	<0.1	1.4	0.05	<0.02	13	0.4	0.03	4.9	1.37	0.1	0.04
072915	Soil	27.7	21.4	0.57	24.3	0.008	<1	1.62	0.005	0.03	0.1	1.2	0.04	0.02	22	0.3	0.02	4.8	1.15	<0.1	0.05
072916	Soil	34.0	24.5	0.70	47.4	0.002	<1	1.91	0.002	0.03	<0.1	1.7	0.03	<0.02	21	<0.1	<0.02	4.8	1.81	<0.1	0.07
072917	Soil	31.0	20.0	0.56	43.5	0.002	1	1.56	0.003	0.03	<0.1	1.6	0.03	<0.02	12	0.2	0.03	4.1	2.11	<0.1	0.11
072918	Soil	28.7	15.8	0.49	64.1	0.001	<1	1.56	0.004	0.03	<0.1	2.8	0.03	<0.02	21	<0.1	0.02	3.2	3.59	0.2	0.04
072919	Soil	23.1	32.8	0.92	28.4	0.002	<1	2.22	0.005	0.04	<0.1	2.4	0.03	<0.02	13	<0.1	0.03	5.5	1.00	0.2	0.08
072920	Soil	28.9	26.8	0.48	62.6	0.004	<1	2.13	0.007	0.08	0.1	1.9	0.06	<0.02	32	0.2	0.03	5.0	1.16	0.1	0.09



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
072721	Soil	0.05	2.9	0.7	<0.05	3.7	3.69	38.3	<0.02	<1	0.3	69.9	<10	<2
072722	Soil	0.12	3.7	0.3	<0.05	5.6	6.02	23.8	0.02	<1	0.2	56.5	<10	<2
072723	Soil	0.16	4.0	0.6	<0.05	4.2	3.66	17.7	<0.02	<1	0.5	50.0	<10	<2
072724	Soil	0.10	3.7	0.2	<0.05	2.1	2.01	42.5	<0.02	<1	<0.1	60.7	<10	<2
072725	Soil	0.09	2.7	0.9	<0.05	2.7	3.37	51.0	<0.02	1	0.7	60.5	<10	<2
072726	Soil	0.23	5.9	2.0	<0.05	1.0	2.19	32.1	<0.02	1	0.1	18.0	<10	<2
072727	Soil	0.08	3.1	0.8	<0.05	1.7	8.40	44.9	0.05	<1	0.5	9.8	<10	<2
072728	Soil	0.07	2.7	0.5	<0.05	21.0	10.99	31.9	0.06	<1	0.7	40.1	<10	5
072729	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.
072730	Soil	0.38	4.0	0.5	<0.05	1.5	2.51	21.3	<0.02	<1	0.5	26.2	<10	<2
072871	Soil	0.27	4.5	0.2	<0.05	3.2	5.39	39.3	<0.02	<1	0.2	38.1	<10	<2
072872	Soil	0.23	5.2	0.2	<0.05	2.2	6.04	42.8	0.04	<1	0.3	30.3	<10	<2
072873	Soil	0.51	7.0	0.3	<0.05	1.7	8.20	23.7	<0.02	<1	0.6	24.9	<10	<2
072874	Soil	0.35	7.7	0.3	<0.05	2.6	3.86	45.8	<0.02	<1	0.6	43.5	<10	3
072875	Soil	0.28	3.3	0.1	<0.05	0.7	1.10	28.8	<0.02	<1	0.2	17.6	<10	<2
072876	Soil	0.12	7.2	0.3	<0.05	2.1	2.40	25.3	<0.02	<1	0.3	44.9	<10	<2
072877	Soil	0.27	4.7	0.3	<0.05	1.6	10.24	38.1	0.04	<1	0.7	22.5	<10	<2
072878	Soil	0.25	6.1	0.4	<0.05	0.4	2.42	34.0	<0.02	<1	0.2	8.2	<10	<2
072879	Soil	0.24	6.0	0.4	<0.05	3.2	4.40	36.6	0.03	1	0.1	48.8	<10	<2
072880	Soil	0.14	6.0	0.3	<0.05	2.0	1.49	37.0	<0.02	<1	0.2	39.9	<10	<2
072911	Soil	0.35	6.3	0.5	<0.05	0.8	3.50	17.1	<0.02	<1	0.2	18.4	<10	<2
072912	Soil	0.20	5.1	0.3	<0.05	2.0	5.02	49.6	<0.02	<1	0.3	58.8	<10	<2
072913	Soil	0.16	4.8	0.4	<0.05	2.4	5.53	50.6	0.02	<1	0.7	45.8	<10	<2
072914	Soil	0.21	5.1	0.4	<0.05	1.3	4.70	58.8	0.02	<1	0.3	45.0	<10	<2
072915	Soil	0.18	5.1	0.6	<0.05	1.8	4.15	52.1	<0.02	<1	0.2	40.4	<10	<2
072916	Soil	0.08	3.2	0.7	<0.05	2.4	7.55	62.3	0.02	<1	0.5	53.1	<10	<2
072917	Soil	0.09	4.5	0.4	<0.05	3.6	4.82	58.4	<0.02	<1	0.6	41.7	<10	<2
072918	Soil	0.05	3.4	0.5	<0.05	2.6	6.19	54.2	<0.02	<1	0.7	38.1	<10	<2
072919	Soil	0.15	4.5	0.5	<0.05	3.8	5.04	41.1	0.02	<1	0.5	70.5	<10	2
072920	Soil	0.44	7.6	0.3	<0.05	4.9	2.06	54.4	<0.02	<1	0.3	48.4	<10	2



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000271.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
072631	Soil	0.56	28.22	25.49	41.8	315	13.2	5.7	271	2.36	10.8	1.2	4.6	1.1	7.6	0.19	0.45	0.44	13	0.02	0.091
072632	Soil	0.41	31.61	30.35	72.7	203	24.8	12.8	701	2.95	17.0	1.6	1.6	4.1	7.0	0.10	0.28	0.38	10	0.03	0.074
072633	Soil	0.48	42.05	43.52	91.7	222	39.8	21.2	794	3.69	27.2	2.5	3.4	8.1	8.7	0.08	0.36	0.43	11	0.10	0.069
072634	Soil	0.35	51.45	28.95	116.1	88	47.7	18.8	547	4.54	18.0	2.2	2.9	13.4	8.0	0.06	0.30	0.40	12	0.10	0.060
072635	Soil	0.79	65.13	53.37	98.9	84	45.7	28.4	1459	4.74	33.6	1.5	0.9	9.6	8.4	0.09	1.25	0.90	14	0.22	0.056
072636	Soil	0.63	54.67	33.65	99.6	85	44.6	18.6	926	4.70	23.6	1.7	1.8	7.6	8.2	0.03	0.76	0.60	16	0.17	0.053
072637	Soil	0.68	55.82	34.97	104.0	71	46.0	21.6	1105	4.82	24.4	1.7	2.5	6.3	7.8	0.10	0.65	0.64	17	0.14	0.064
072638	Soil	0.72	48.86	26.46	92.7	72	40.8	15.6	692	4.29	20.7	1.6	1.4	5.7	7.0	0.09	0.59	0.59	15	0.11	0.057
072639	Soil	0.65	50.45	41.70	94.8	229	38.2	21.0	1273	4.26	25.5	1.7	1.2	4.7	6.1	0.15	0.64	0.55	16	0.06	0.074
072640	Soil	0.65	18.69	31.03	50.5	38	17.8	10.0	725	2.21	60.4	0.8	8.3	1.5	5.9	0.11	0.64	0.28	10	0.08	0.063
073901	Soil	0.64	32.57	31.38	71.1	61	27.6	15.8	662	4.37	16.0	1.2	1.8	4.5	6.2	0.12	2.17	0.50	15	0.05	0.073
073902	Soil	0.66	29.09	21.89	63.2	134	16.1	9.2	854	3.39	7.3	1.1	0.8	2.1	7.4	0.15	1.05	0.51	18	0.04	0.145
073903	Soil	0.48	30.06	21.47	70.6	90	23.1	10.2	329	3.89	12.2	0.9	1.1	3.8	4.6	0.10	1.51	0.53	12	0.02	0.067
073904	Soil	0.49	27.96	19.04	56.6	42	19.4	10.6	496	3.83	7.5	0.8	<0.2	2.5	3.9	0.11	0.87	0.45	16	0.01	0.062
073905	Soil	0.54	24.68	27.06	55.2	93	15.1	11.3	648	4.53	7.0	0.9	4.0	1.7	9.4	0.12	0.75	0.50	20	0.03	0.105
073906	Soil	0.36	16.23	16.22	32.1	66	12.9	7.1	670	2.71	5.5	0.5	<0.2	1.5	2.9	0.05	0.50	0.28	14	0.02	0.043
073907	Soil	0.38	31.78	31.37	66.4	54	32.4	17.2	855	4.07	9.7	3.3	0.8	10.5	5.6	0.04	0.77	0.47	12	0.03	0.037
073908	Soil	0.74	55.83	56.65	99.8	62	27.7	30.4	826	4.18	8.4	2.4	0.9	8.9	5.5	0.07	0.60	0.66	16	0.02	0.096
073909	Soil	0.54	19.88	129.73	74.0	92	24.2	31.2	933	2.59	16.4	4.6	2.8	20.8	35.6	0.19	1.16	0.49	5	0.26	0.065
073910	Soil	0.52	52.46	47.64	106.0	35	24.0	21.0	2950	5.85	16.3	4.8	3.3	13.4	50.5	0.24	1.20	0.91	6	0.34	0.194
073911	Soil	0.79	15.47	24.28	45.8	47	9.9	5.7	243	2.82	8.2	1.2	<0.2	3.3	4.4	0.06	0.66	0.48	24	0.02	0.056
073912	Soil	0.36	44.08	29.39	110.3	27	32.7	18.7	378	4.02	9.8	2.4	1.0	11.6	18.7	0.08	1.76	0.58	10	0.02	0.051
073913	Soil	0.40	46.02	35.50	111.5	28	35.6	22.4	539	4.17	11.2	2.4	1.1	12.0	18.0	0.05	2.12	0.59	10	0.03	0.053
073914	Soil	0.52	24.46	21.25	58.6	54	17.6	8.3	357	3.33	4.2	0.8	1.1	1.7	5.0	0.09	0.41	0.46	19	0.02	0.082
073915	Soil	0.85	60.11	61.83	74.8	120	29.5	47.0	1999	3.29	8.9	1.8	0.4	8.6	6.1	0.04	0.48	0.65	12	0.03	0.059
073916	Soil	0.47	34.06	19.84	80.3	14	30.8	12.6	357	4.16	7.9	1.1	0.7	8.1	5.4	0.11	0.55	0.55	17	0.04	0.052
073917	Soil	0.20	7.69	9.30	26.6	78	6.9	4.4	301	1.27	3.0	0.4	0.6	2.4	6.8	0.06	0.61	0.18	9	0.08	0.028
073918	Soil	0.31	21.26	19.90	74.5	106	26.9	10.7	283	3.87	9.8	0.7	1.8	11.1	3.5	0.08	0.62	0.41	13	0.02	0.028
073919	Soil	0.56	10.87	7.57	40.2	44	12.9	5.2	164	1.84	3.1	0.6	<0.2	5.9	5.8	0.07	0.28	0.27	12	0.05	0.020
073920	Soil	0.70	13.64	12.05	61.0	30	19.7	8.2	350	3.41	6.3	3.6	0.5	9.3	5.4	0.03	0.28	0.48	18	0.03	0.036



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
072631	Soil	12.7	10.2	0.15	27.3	0.005	<1	0.75	0.009	0.03	0.1	0.5	0.05	0.03	55	0.3	0.04	3.1	3.05	<0.1	0.04
072632	Soil	21.0	14.0	0.36	25.5	0.005	<1	1.22	0.006	0.03	0.1	1.1	0.03	<0.02	30	<0.1	0.05	3.2	1.52	<0.1	0.04
072633	Soil	22.7	19.8	0.57	16.2	0.002	<1	1.45	0.004	0.03	<0.1	1.5	0.03	<0.02	40	0.2	0.05	3.9	1.21	<0.1	0.04
072634	Soil	37.9	24.9	0.77	11.7	0.002	<1	1.87	0.002	0.02	<0.1	1.8	<0.02	<0.02	<5	<0.1	0.08	4.7	0.65	<0.1	0.09
072635	Soil	17.1	23.8	0.99	16.5	0.001	<1	2.09	0.006	0.03	<0.1	3.6	0.02	<0.02	21	<0.1	0.06	5.2	0.76	0.1	0.16
072636	Soil	18.2	30.7	1.05	17.5	0.002	1	2.37	0.005	0.03	<0.1	3.1	0.02	<0.02	26	0.3	0.08	5.9	1.15	<0.1	0.17
072637	Soil	17.0	31.9	1.04	16.9	0.002	<1	2.37	0.006	0.03	<0.1	3.0	<0.02	<0.02	15	0.1	0.11	6.8	1.16	<0.1	0.19
072638	Soil	14.6	27.4	0.93	26.9	0.002	<1	2.20	0.006	0.03	<0.1	2.8	0.02	<0.02	<5	0.4	0.05	5.9	1.24	0.1	0.19
072639	Soil	14.0	25.2	0.80	21.3	0.003	<1	1.98	0.005	0.03	<0.1	2.5	0.03	0.02	60	0.4	0.09	5.3	1.73	<0.1	0.08
072640	Soil	12.8	10.5	0.20	19.3	0.005	4	0.53	0.006	0.02	0.1	1.2	0.05	0.03	18	0.6	0.05	2.6	0.81	0.2	0.04
073901	Soil	15.9	18.7	0.40	29.0	0.004	<1	1.48	0.004	0.04	<0.1	1.8	0.04	0.03	30	0.4	0.05	4.0	2.06	0.1	0.08
073902	Soil	13.6	17.1	0.18	60.4	0.006	1	1.26	0.005	0.03	<0.1	0.8	0.05	0.07	49	0.2	0.05	4.9	1.21	<0.1	0.10
073903	Soil	17.4	16.5	0.43	22.8	0.005	<1	1.48	0.004	0.02	<0.1	1.2	0.03	0.02	29	0.1	0.08	4.3	0.62	0.1	0.08
073904	Soil	16.0	17.1	0.39	27.6	0.007	<1	1.30	0.003	0.03	<0.1	0.8	0.03	0.02	15	0.4	0.06	4.6	0.87	<0.1	0.06
073905	Soil	12.8	18.6	0.27	56.1	0.007	<1	1.39	0.005	0.04	<0.1	0.6	0.04	0.05	27	0.2	0.02	6.3	1.03	<0.1	0.08
073906	Soil	14.4	13.1	0.23	25.2	0.007	<1	0.79	0.004	0.02	<0.1	0.6	0.02	<0.02	11	<0.1	<0.02	4.3	0.55	0.2	0.04
073907	Soil	22.5	21.4	0.52	29.5	0.004	<1	1.72	0.003	0.03	<0.1	2.5	0.02	<0.02	18	0.3	<0.02	3.6	0.55	0.1	0.12
073908	Soil	21.3	19.4	0.55	34.3	0.004	<1	1.95	0.003	0.05	<0.1	1.4	0.08	0.02	38	0.4	0.04	4.9	2.59	0.1	0.13
073909	Soil	25.5	5.6	0.46	52.0	0.001	<1	1.37	0.005	0.08	<0.1	1.7	0.07	<0.02	33	<0.1	<0.02	2.3	3.15	<0.1	0.06
073910	Soil	23.5	5.1	0.43	49.0	0.001	<1	1.37	0.002	0.03	<0.1	3.9	0.06	<0.02	26	<0.1	0.04	2.1	1.11	0.1	0.07
073911	Soil	21.0	11.8	0.18	29.6	0.005	<1	1.32	0.003	0.04	0.1	0.9	0.12	0.03	35	0.2	0.02	5.7	1.47	<0.1	0.03
073912	Soil	17.8	19.5	0.59	32.0	0.001	<1	1.83	0.003	0.03	<0.1	1.4	0.04	<0.02	12	0.3	<0.02	4.8	2.16	<0.1	0.08
073913	Soil	18.9	19.3	0.58	34.2	<0.001	<1	1.89	0.003	0.03	<0.1	1.5	0.04	<0.02	8	0.2	<0.02	4.9	2.18	0.1	0.06
073914	Soil	20.9	18.3	0.43	28.5	0.007	<1	1.57	0.006	0.03	<0.1	0.7	0.05	0.05	47	0.3	0.05	5.7	1.16	<0.1	0.06
073915	Soil	15.0	14.9	0.45	36.6	0.004	<1	1.53	0.010	0.04	<0.1	2.0	0.05	<0.02	28	<0.1	0.03	4.4	1.68	0.1	0.07
073916	Soil	30.6	22.9	0.61	23.6	0.006	<1	1.95	0.002	0.03	<0.1	1.3	0.04	<0.02	16	0.2	0.03	5.2	0.72	0.1	0.08
073917	Soil	14.5	6.2	0.14	32.2	0.005	<1	0.54	0.017	0.03	<0.1	0.6	0.03	<0.02	9	<0.1	<0.02	2.5	0.43	<0.1	<0.02
073918	Soil	39.2	21.8	0.58	34.3	0.004	<1	1.69	0.005	0.04	<0.1	1.6	0.04	<0.02	12	0.2	<0.02	4.8	0.79	<0.1	0.03
073919	Soil	25.7	12.4	0.28	25.4	0.004	<1	0.85	0.010	0.04	<0.1	0.8	0.04	<0.02	20	0.1	0.03	4.4	1.52	<0.1	0.02
073920	Soil	33.5	19.2	0.47	41.3	0.004	1	1.40	0.004	0.04	<0.1	1.2	0.04	<0.02	15	<0.1	<0.02	6.5	1.61	0.1	0.04



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
072631	Soil	0.16	4.2	0.6	<0.05	1.1	1.22	23.1	0.04	<1	0.2	11.4	<10	<2
072632	Soil	0.14	3.6	0.2	<0.05	1.9	1.83	39.7	<0.02	<1	0.4	30.8	<10	<2
072633	Soil	0.04	2.5	0.5	<0.05	2.0	3.25	42.3	<0.02	<1	0.2	44.7	<10	<2
072634	Soil	0.02	1.5	0.2	<0.05	5.0	3.28	66.8	<0.02	<1	0.4	65.2	<10	2
072635	Soil	<0.02	1.6	0.5	<0.05	7.2	6.65	31.3	<0.02	<1	0.6	71.0	<10	3
072636	Soil	0.06	2.5	0.5	<0.05	6.5	6.43	31.6	0.04	<1	0.4	78.8	<10	<2
072637	Soil	0.03	2.8	0.6	<0.05	6.8	6.11	29.5	0.02	<1	0.5	77.8	<10	<2
072638	Soil	0.06	2.6	0.4	<0.05	6.3	5.47	25.9	<0.02	<1	0.4	68.2	<10	3
072639	Soil	0.10	3.4	0.3	<0.05	4.4	4.48	25.8	0.03	<1	0.4	60.7	<10	<2
072640	Soil	0.11	3.6	0.5	<0.05	0.9	1.82	24.3	<0.02	<1	0.1	11.9	10	<2
073901	Soil	0.19	5.4	0.8	<0.05	2.6	4.99	31.0	0.03	<1	0.4	33.9	<10	<2
073902	Soil	0.31	7.3	0.5	<0.05	3.0	3.00	25.1	<0.02	<1	0.4	11.2	<10	<2
073903	Soil	0.19	3.1	0.2	<0.05	3.4	3.09	31.7	<0.02	<1	0.5	32.5	<10	3
073904	Soil	0.23	5.2	0.3	<0.05	2.1	2.72	30.4	0.02	<1	0.3	27.6	<10	<2
073905	Soil	0.33	8.0	0.4	<0.05	2.3	3.00	24.1	0.02	<1	0.3	14.9	<10	<2
073906	Soil	0.29	3.4	0.4	<0.05	1.1	1.94	30.5	0.03	<1	0.3	13.7	<10	<2
073907	Soil	0.17	2.7	0.2	<0.05	4.1	10.00	44.6	0.02	2	0.6	45.3	<10	<2
073908	Soil	0.18	6.7	0.3	<0.05	4.1	5.35	41.1	<0.02	<1	1.0	34.9	<10	<2
073909	Soil	<0.02	6.8	0.2	<0.05	3.0	8.28	52.7	0.02	<1	1.3	13.1	<10	<2
073910	Soil	0.13	3.3	0.2	<0.05	3.2	14.13	51.9	0.03	<1	0.5	18.6	<10	<2
073911	Soil	0.43	8.9	0.6	<0.05	1.5	2.95	40.6	<0.02	<1	0.4	8.8	<10	<2
073912	Soil	<0.02	4.0	0.3	<0.05	3.0	5.05	32.3	<0.02	<1	1.4	45.6	<10	<2
073913	Soil	<0.02	4.1	0.4	<0.05	2.6	5.88	34.3	<0.02	<1	0.8	44.1	<10	<2
073914	Soil	0.28	5.2	0.4	<0.05	1.8	2.73	38.2	0.02	<1	0.4	30.5	<10	<2
073915	Soil	0.09	4.7	0.3	<0.05	2.9	8.57	29.0	<0.02	<1	0.8	32.2	<10	<2
073916	Soil	0.18	4.2	0.2	<0.05	3.3	4.16	56.2	<0.02	<1	0.2	44.3	<10	<2
073917	Soil	0.16	6.3	0.3	<0.05	0.3	2.71	27.8	<0.02	<1	0.1	9.8	<10	<2
073918	Soil	0.21	4.9	0.5	<0.05	2.4	2.92	74.6	<0.02	<1	0.3	44.3	<10	<2
073919	Soil	0.19	5.7	0.3	<0.05	0.7	1.67	46.7	<0.02	<1	0.1	19.6	<10	<2
073920	Soil	0.26	8.3	0.4	<0.05	1.2	2.64	61.7	<0.02	<1	0.2	35.7	<10	<2



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000271.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
073921	Soil	0.30	25.82	28.55	82.5	132	25.8	16.6	931	3.97	7.0	0.7	<0.2	9.7	4.7	0.10	0.40	0.50	15	0.04	0.090
073922	Soil	0.70	47.45	60.62	85.8	128	28.6	33.5	1187	4.15	2.3	1.1	<0.2	11.5	5.4	0.11	0.34	0.80	15	0.03	0.101
073923	Soil	0.47	22.44	26.53	47.4	58	14.2	6.5	405	5.17	4.1	0.6	0.2	10.6	2.4	0.02	0.41	0.55	20	<0.01	0.077
073924	Soil	0.27	26.63	25.83	82.5	147	32.4	16.3	368	3.98	9.1	0.6	1.4	10.4	4.0	0.04	0.32	0.69	13	0.03	0.037
073925	Soil	0.53	7.75	7.42	71.8	19	27.7	12.6	393	4.21	6.2	0.4	0.4	8.8	4.8	0.03	0.25	0.40	24	<0.01	0.010
073926	Soil	0.62	14.85	25.58	64.6	129	22.5	13.2	407	4.36	8.9	0.6	1.7	9.8	4.1	0.06	0.32	0.48	22	<0.01	0.040
073927	Soil	0.32	11.52	15.66	47.6	31	16.3	6.6	184	3.20	5.3	0.5	2.9	7.3	2.9	0.04	0.25	0.33	15	0.01	0.026
073928	Soil	0.36	9.98	15.58	53.4	89	18.2	7.8	312	3.84	6.4	0.5	5.1	8.7	2.8	0.02	0.27	0.39	16	<0.01	0.040
073929	Soil	0.35	8.76	15.53	43.8	59	16.3	11.4	289	2.82	2.7	0.9	0.2	6.3	9.8	0.04	0.12	0.23	15	<0.01	0.025
073930	Soil	0.36	21.02	24.60	78.4	27	27.7	11.1	349	3.83	13.8	0.6	0.3	11.1	3.0	0.07	0.58	0.44	12	0.02	0.021
073841	Soil	0.41	35.20	46.60	112.6	88	36.4	19.1	1286	4.33	12.5	1.4	1.8	11.3	9.2	0.16	2.09	0.45	9	0.18	0.064
073842	Soil	0.31	29.25	37.38	91.7	28	28.2	18.8	491	3.63	19.7	1.4	3.2	11.5	8.7	0.05	1.83	0.45	9	0.09	0.046
073843	Soil	0.35	17.40	16.37	43.8	27	15.1	6.5	245	2.54	5.2	0.8	<0.2	2.9	5.3	0.03	0.47	0.35	11	0.02	0.077
073844	Soil	0.58	30.47	10.18	34.0	61	14.1	5.0	344	3.64	5.9	1.0	0.3	4.5	2.5	0.05	0.46	0.53	15	0.01	0.089
073845	Soil	0.47	26.96	24.33	94.6	46	28.7	16.3	1540	3.45	8.9	1.1	0.6	10.3	5.9	0.12	0.69	0.37	11	0.06	0.090
073846	Soil	0.40	42.27	41.12	93.1	58	33.6	21.6	1131	4.35	16.3	1.8	1.3	21.1	11.7	0.06	2.15	0.57	6	0.14	0.059
073847	Soil	0.76	23.29	17.94	58.5	29	19.8	8.7	257	3.18	19.9	1.0	2.2	4.7	4.5	0.09	1.35	0.41	15	0.02	0.047
073848	Soil	0.47	30.75	43.80	108.4	102	30.5	19.5	1133	4.66	16.6	1.5	0.9	8.5	13.6	0.11	2.26	0.43	11	0.23	0.112
073849	Soil	0.48	21.18	17.70	74.7	28	24.4	11.0	372	3.29	9.5	0.8	0.5	4.4	4.8	0.13	0.81	0.36	13	0.04	0.048
073850	Soil	0.40	23.27	30.68	75.4	87	22.0	12.8	850	3.67	8.3	1.0	0.4	4.3	22.6	0.20	0.96	0.40	13	0.47	0.093
073751	Soil	0.60	36.94	47.04	92.6	141	28.8	26.6	899	3.02	7.7	1.5	0.8	9.9	18.4	0.12	1.24	0.36	6	0.26	0.057
073752	Soil	0.40	43.28	34.70	49.5	83	28.7	20.5	958	3.39	20.8	1.7	1.4	10.8	12.8	0.07	2.22	0.30	4	0.29	0.057
073753	Soil	0.47	59.12	54.84	114.3	201	42.8	40.6	1464	4.78	8.5	2.2	1.6	12.7	31.4	0.11	1.24	0.54	11	0.48	0.056
073754	Soil	0.40	58.87	54.13	113.9	191	41.7	39.9	1342	4.70	8.5	2.2	1.1	13.0	30.6	0.11	1.24	0.56	12	0.46	0.054
073755	Soil	0.45	24.77	28.58	78.5	60	23.5	17.8	424	3.29	6.2	3.0	0.6	6.4	17.3	0.10	0.54	0.52	9	0.25	0.068
073756	Soil	0.44	37.73	31.65	98.7	97	31.3	13.8	444	3.88	7.0	6.0	1.3	9.0	29.8	0.10	0.69	0.56	11	0.49	0.062
073757	Soil	0.64	24.42	30.49	76.1	80	18.5	16.5	1417	2.55	4.2	1.8	<0.2	1.5	45.5	0.19	0.45	0.34	13	0.84	0.090
073758	Soil	0.34	34.68	42.94	94.2	105	36.9	22.4	715	3.73	9.7	1.0	0.8	13.4	21.4	0.08	2.13	0.44	6	0.26	0.071
073759	Soil	0.53	39.77	41.06	102.2	127	37.4	19.0	576	3.92	14.3	1.4	1.7	12.8	17.1	0.10	3.16	0.53	8	0.27	0.061
073760	Soil	0.31	30.00	35.21	78.0	77	28.0	14.8	667	3.34	5.6	1.1	<0.2	7.1	7.5	0.06	0.68	0.36	11	0.09	0.083



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
073921	Soil	26.8	22.4	0.61	41.6	0.003	<1	1.76	0.005	0.04	<0.1	1.4	0.04	<0.02	26	0.1	0.03	5.8	1.52	<0.1	0.06
073922	Soil	27.5	25.4	0.70	33.7	0.009	1	1.93	0.006	0.04	0.2	1.5	0.05	0.03	57	<0.1	<0.02	6.2	2.49	0.2	0.08
073923	Soil	36.8	18.5	0.34	20.8	0.004	<1	1.43	0.004	0.03	<0.1	1.1	0.04	<0.02	10	0.4	0.06	8.0	1.23	0.2	<0.02
073924	Soil	28.7	24.8	0.58	38.6	0.003	<1	2.15	0.004	0.04	0.1	1.7	0.03	<0.02	22	0.2	<0.02	4.9	1.14	0.1	0.07
073925	Soil	27.8	23.3	0.62	28.2	0.008	<1	1.48	0.003	0.02	0.2	1.3	0.03	<0.02	<5	<0.1	<0.02	5.8	1.19	<0.1	0.03
073926	Soil	30.5	26.5	0.49	47.3	0.006	<1	2.02	0.004	0.04	0.2	1.7	0.05	<0.02	19	<0.1	0.03	5.9	2.57	0.2	0.05
073927	Soil	19.8	16.3	0.38	28.3	0.004	<1	1.47	0.006	0.02	<0.1	1.1	0.05	<0.02	21	0.3	0.03	5.0	1.03	<0.1	0.06
073928	Soil	21.6	18.4	0.40	21.7	0.004	<1	1.24	0.003	0.02	0.1	1.1	0.03	<0.02	12	0.1	0.03	5.0	0.83	<0.1	0.03
073929	Soil	24.1	17.5	0.32	43.7	0.004	2	1.40	0.007	0.04	<0.1	1.2	0.05	<0.02	6	0.2	<0.02	5.3	1.53	<0.1	0.03
073930	Soil	26.6	20.6	0.61	43.9	0.002	<1	1.95	0.003	0.04	<0.1	1.4	0.04	<0.02	9	0.2	0.04	5.3	0.88	<0.1	0.09
073841	Soil	25.4	16.3	0.54	43.0	0.003	<1	1.55	0.003	0.03	<0.1	4.4	0.03	<0.02	34	0.2	0.02	3.9	0.82	<0.1	0.07
073842	Soil	18.8	16.0	0.46	26.7	0.003	<1	1.40	0.002	0.03	<0.1	1.7	0.03	<0.02	<5	0.2	<0.02	4.0	0.97	<0.1	0.06
073843	Soil	15.0	14.3	0.37	41.4	0.004	1	1.29	0.007	0.03	<0.1	0.7	0.05	0.03	25	0.1	<0.02	4.3	0.71	<0.1	0.07
073844	Soil	13.0	15.1	0.31	18.7	0.005	<1	1.08	0.003	0.03	<0.1	0.8	0.05	0.04	29	0.4	0.02	5.9	0.96	<0.1	0.05
073845	Soil	24.4	18.3	0.56	31.2	0.007	2	1.65	0.003	0.04	<0.1	1.6	0.04	0.03	46	0.3	0.02	4.6	0.99	0.1	0.10
073846	Soil	26.3	12.7	0.47	26.6	0.001	<1	1.21	0.002	0.04	<0.1	2.5	0.05	<0.02	18	<0.1	<0.02	3.1	1.78	<0.1	0.07
073847	Soil	23.3	11.3	0.21	25.6	0.007	1	0.83	0.002	0.03	0.1	1.5	0.06	0.03	36	0.2	0.02	2.9	1.10	<0.1	0.03
073848	Soil	15.0	17.8	0.43	52.7	0.004	2	1.56	0.005	0.04	<0.1	3.6	0.05	0.05	37	0.6	0.03	4.5	1.98	<0.1	0.17
073849	Soil	15.9	16.9	0.48	29.8	0.007	<1	1.38	0.004	0.02	<0.1	1.2	0.03	<0.02	11	0.1	0.04	4.2	0.76	<0.1	0.03
073850	Soil	12.3	17.1	0.38	37.2	0.004	1	1.42	0.004	0.03	<0.1	2.2	0.04	0.06	52	0.3	0.04	4.8	1.12	<0.1	0.04
073751	Soil	17.0	12.1	0.32	39.5	0.005	2	1.12	0.011	0.04	<0.1	2.4	0.04	<0.02	47	0.4	0.02	3.0	1.30	<0.1	0.06
073752	Soil	17.0	4.8	0.11	47.5	0.001	<1	0.61	0.003	0.06	<0.1	2.0	0.05	0.03	29	0.2	0.03	1.3	1.81	<0.1	0.11
073753	Soil	15.6	22.5	0.63	44.6	0.002	<1	2.11	0.007	0.04	<0.1	4.5	0.06	<0.02	35	0.4	0.05	5.6	2.11	<0.1	0.17
073754	Soil	15.2	22.6	0.62	41.7	0.002	1	2.06	0.008	0.04	<0.1	4.2	0.05	<0.02	41	0.3	0.07	6.2	2.00	<0.1	0.16
073755	Soil	11.6	17.3	0.48	27.1	0.003	<1	1.48	0.006	0.03	<0.1	1.5	0.03	0.06	29	0.4	0.05	4.5	0.78	<0.1	0.06
073756	Soil	18.7	22.8	0.63	20.2	0.004	<1	1.67	0.004	0.03	<0.1	2.5	0.03	0.02	22	0.6	0.08	5.0	0.70	<0.1	0.10
073757	Soil	9.1	14.2	0.35	60.2	0.006	<1	1.04	0.006	0.03	<0.1	0.7	0.04	0.07	29	0.3	0.03	4.1	0.91	<0.1	0.04
073758	Soil	12.3	15.1	0.52	26.9	0.001	<1	1.27	0.003	0.02	<0.1	2.9	0.03	<0.02	26	<0.1	0.02	3.5	0.54	<0.1	0.12
073759	Soil	8.6	18.0	0.46	41.1	0.001	<1	1.47	0.007	0.04	<0.1	2.9	0.04	0.03	24	0.5	<0.02	3.9	1.00	<0.1	0.19
073760	Soil	11.1	15.5	0.48	17.2	0.005	<1	1.28	0.006	0.02	<0.1	1.8	0.03	<0.02	23	0.3	0.02	3.5	0.46	<0.1	0.06



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
073921	Soil	0.14	6.7	0.2	<0.05	2.2	2.59	48.9	<0.02	<1	0.3	51.6	<10	<2
073922	Soil	0.29	5.9	0.2	<0.05	3.4	3.79	51.1	0.04	<1	0.6	49.9	<10	<2
073923	Soil	0.24	4.8	0.4	<0.05	1.1	2.41	69.5	<0.02	<1	0.2	24.2	<10	<2
073924	Soil	0.12	5.6	0.2	<0.05	2.8	2.73	55.7	0.03	<1	0.8	48.7	<10	<2
073925	Soil	0.30	3.5	0.4	<0.05	2.3	1.48	55.1	<0.02	<1	0.2	39.0	<10	<2
073926	Soil	0.32	7.0	0.4	<0.05	3.4	2.17	60.4	<0.02	<1	0.3	42.7	<10	<2
073927	Soil	0.30	5.0	0.3	<0.05	2.8	1.86	38.4	0.03	<1	0.3	35.5	<10	<2
073928	Soil	0.21	4.6	0.4	<0.05	2.3	1.79	43.5	<0.02	<1	0.2	31.9	<10	<2
073929	Soil	0.25	6.9	0.5	<0.05	1.1	1.49	46.3	<0.02	<1	0.3	28.5	<10	<2
073930	Soil	0.12	7.1	0.2	<0.05	3.9	2.59	52.6	0.03	<1	0.4	53.1	<10	<2
073841	Soil	0.08	2.9	0.3	<0.05	3.0	16.48	52.3	0.04	<1	0.8	40.9	<10	<2
073842	Soil	0.08	3.0	0.2	<0.05	2.7	5.18	35.6	0.03	<1	0.5	34.7	<10	<2
073843	Soil	0.18	4.4	0.5	<0.05	2.2	1.95	27.2	<0.02	<1	0.2	27.1	<10	<2
073844	Soil	0.17	5.9	0.6	<0.05	1.7	3.00	22.5	<0.02	<1	0.2	20.9	<10	<2
073845	Soil	0.20	5.6	1.0	<0.05	3.9	4.52	48.2	0.02	<1	0.6	39.2	<10	2
073846	Soil	<0.02	3.7	0.3	<0.05	5.7	8.55	52.9	<0.02	<1	0.8	27.6	<10	<2
073847	Soil	0.25	6.3	0.7	<0.05	1.0	3.67	44.4	0.02	<1	0.3	15.5	<10	<2
073848	Soil	0.15	7.1	1.1	<0.05	5.2	10.14	30.6	0.03	<1	0.9	31.9	<10	<2
073849	Soil	0.19	3.4	0.3	<0.05	1.2	3.04	32.0	0.02	<1	0.2	37.1	<10	<2
073850	Soil	0.22	4.6	0.4	<0.05	1.5	6.77	25.0	0.03	<1	0.6	35.3	<10	<2
073751	Soil	0.12	3.2	1.2	<0.05	3.2	14.08	34.2	0.03	<1	0.8	24.4	<10	<2
073752	Soil	0.04	4.9	0.5	<0.05	3.6	8.36	33.6	<0.02	<1	0.8	6.2	<10	<2
073753	Soil	0.07	4.4	0.5	<0.05	6.4	14.13	29.5	0.05	<1	1.1	51.2	<10	<2
073754	Soil	0.07	4.0	0.5	<0.05	7.2	13.72	29.2	0.05	<1	0.9	54.0	<10	<2
073755	Soil	0.16	3.6	0.3	<0.05	2.4	4.45	21.6	<0.02	<1	0.6	39.3	<10	<2
073756	Soil	0.14	2.7	0.1	<0.05	3.4	9.66	36.0	0.03	<1	0.5	50.0	<10	<2
073757	Soil	0.30	6.1	0.3	<0.05	1.1	5.10	18.0	<0.02	<1	0.7	20.8	<10	<2
073758	Soil	<0.02	1.9	0.2	<0.05	5.0	8.31	23.5	0.03	<1	0.5	43.4	<10	<2
073759	Soil	0.07	4.5	0.7	<0.05	5.6	6.81	15.5	0.03	<1	0.6	36.9	<10	<2
073760	Soil	0.07	2.4	0.3	<0.05	1.9	5.03	20.9	<0.02	<1	0.3	42.3	<10	<2



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**Project:** None Given  
**Report Date:** September 27, 2016

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**Part:** 1 of 3

# CERTIFICATE OF ANALYSIS

WHI16000271.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
073761	Soil	0.33	29.32	32.37	91.2	54	33.7	13.3	353	3.74	8.3	1.1	0.2	10.3	11.5	0.07	1.35	0.43	10	0.08	0.042
073762	Soil	0.41	29.30	35.77	86.9	37	28.3	12.7	408	3.57	11.4	0.8	0.4	8.4	6.5	0.12	1.24	0.46	10	0.06	0.050
073763	Soil	0.46	25.96	35.92	98.8	34	31.0	13.7	462	3.95	25.9	0.8	2.7	8.8	5.1	0.17	1.92	0.49	11	0.04	0.071
073764	Soil	0.36	33.50	46.37	95.2	61	31.6	18.6	796	3.93	36.9	1.0	8.0	9.7	6.4	0.10	2.68	0.57	9	0.05	0.086
073765	Soil	0.33	51.71	42.39	94.3	116	36.8	18.3	501	3.86	14.9	1.1	5.7	14.3	6.9	0.10	1.41	0.54	7	0.06	0.042
073766	Soil	0.71	29.24	25.65	63.5	174	23.0	11.3	400	3.12	16.3	0.9	1.6	4.3	4.3	0.07	1.21	0.47	13	0.02	0.090
073767	Soil	0.34	32.75	34.20	81.3	68	32.0	12.5	357	3.90	18.1	0.8	2.9	11.2	4.2	0.06	1.29	0.45	9	0.03	0.042
073768	Soil	0.37	22.71	30.00	63.3	26	24.6	8.5	344	4.20	19.8	0.7	1.4	9.4	3.4	0.05	1.18	0.43	11	0.02	0.048
073769	Soil	0.41	19.88	15.45	41.3	97	13.6	6.9	342	1.70	6.4	1.7	1.4	1.5	20.3	0.05	0.54	0.25	10	0.18	0.066
073770	Soil	0.39	32.46	28.36	58.0	56	27.6	12.6	411	4.06	28.5	0.8	1.3	9.8	5.2	0.03	0.91	0.43	11	0.03	0.044
073801	Soil	0.15	10.60	12.10	23.3	48	24.5	10.7	289	2.33	17.1	0.7	2.1	11.7	16.7	0.02	0.54	0.19	6	0.37	0.020
073802	Soil	0.36	23.17	33.61	65.2	93	30.6	13.6	674	2.97	7.4	1.4	0.5	9.6	16.2	0.13	0.61	0.27	10	0.29	0.062
073803	Soil	0.47	23.24	21.71	45.5	48	15.9	8.1	420	3.39	4.5	0.8	1.6	2.4	3.5	0.08	0.39	0.44	15	0.02	0.118
073804	Soil	0.30	30.09	29.88	85.2	91	29.8	15.8	649	3.93	4.4	1.2	<0.2	8.8	7.6	0.08	0.38	0.43	13	0.11	0.068
073805	Soil	0.29	31.02	29.62	85.7	63	32.0	16.9	697	4.01	4.7	1.2	0.7	9.5	6.9	0.09	0.38	0.41	13	0.09	0.070
073806	Soil	0.22	44.33	40.22	110.4	81	35.8	16.5	688	4.29	23.7	1.5	0.4	12.0	18.0	0.08	1.40	0.38	9	0.25	0.078
073807	Soil	0.32	28.58	47.99	91.4	83	31.1	17.4	939	3.83	4.2	1.1	0.6	8.0	8.2	0.07	0.41	0.34	12	0.10	0.081
073808	Soil	0.60	10.69	17.89	22.0	33	10.8	9.4	461	2.53	12.7	0.5	0.6	0.7	4.5	0.04	0.75	0.45	19	0.05	0.073
073809	Soil	0.96	17.29	16.17	50.5	43	16.5	6.8	182	4.17	13.6	0.7	<0.2	2.7	3.9	0.09	0.88	0.48	30	0.02	0.054
073810	Soil	0.28	34.79	33.96	67.9	112	36.0	24.4	1340	3.76	11.3	1.5	0.7	16.7	23.8	0.08	1.40	0.42	8	0.29	0.060
073811	Soil	0.47	63.91	61.48	157.8	236	54.2	35.3	934	4.64	26.9	2.3	2.5	19.4	26.6	0.12	2.95	0.50	11	0.22	0.054
073812	Soil	0.46	27.88	47.25	75.8	79	25.6	16.1	785	3.27	8.8	1.0	3.3	3.8	8.6	0.15	0.85	0.35	15	0.07	0.078
073813	Soil	0.35	13.88	13.69	29.7	38	9.6	5.5	260	1.53	5.0	0.5	0.4	0.6	7.5	0.06	0.35	0.18	12	0.07	0.053
073814	Soil	0.40	27.98	21.64	59.3	51	24.4	9.9	287	3.31	15.8	1.0	1.6	9.2	25.4	0.06	1.38	0.40	11	0.25	0.043
073815	Soil	0.52	23.30	25.07	70.2	83	20.5	12.2	401	3.78	8.0	0.7	<0.2	3.6	7.0	0.16	0.99	0.53	15	0.08	0.059
073816	Soil	0.36	36.08	13.62	58.4	64	26.3	11.5	230	3.94	12.8	0.8	0.5	8.3	1.6	0.04	1.20	0.60	10	<0.01	0.042
073817	Soil	0.40	49.33	46.33	92.3	83	35.8	23.6	602	4.32	14.1	1.4	1.7	14.2	10.4	0.03	1.62	0.72	9	0.14	0.025
073818	Soil	0.25	34.83	27.91	79.2	29	30.7	17.2	464	3.72	11.1	1.0	2.0	13.6	9.4	0.03	1.17	0.50	9	0.16	0.030
073819	Soil	0.29	31.19	30.79	80.3	71	30.4	18.0	576	3.73	10.6	1.0	1.1	11.7	13.4	0.04	0.91	0.49	10	0.15	0.050
073820	Soil	0.24	22.55	22.33	73.2	34	27.0	12.9	436	3.58	9.2	1.2	0.9	10.1	10.2	0.03	0.59	0.41	11	0.12	0.042



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000271.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
073761	Soil	14.8	19.2	0.60	34.7	0.003	<1	1.58	0.003	0.03	<0.1	2.3	0.05	<0.02	23	0.2	0.03	4.0	0.71	<0.1	0.07
073762	Soil	21.1	18.9	0.49	31.7	0.002	<1	1.50	0.003	0.03	<0.1	1.8	0.04	<0.02	17	0.2	0.04	4.0	0.69	<0.1	0.09
073763	Soil	16.2	21.3	0.51	24.1	0.002	<1	1.69	0.003	0.03	<0.1	1.6	0.04	<0.02	16	0.3	0.06	4.1	0.63	<0.1	0.09
073764	Soil	18.1	15.4	0.44	21.8	0.004	<1	1.32	0.003	0.03	<0.1	2.5	0.04	<0.02	13	0.3	0.05	3.5	0.52	<0.1	0.07
073765	Soil	23.7	16.7	0.49	23.1	0.001	<1	1.30	0.003	0.03	<0.1	3.5	0.03	<0.02	23	0.3	0.03	3.6	0.45	<0.1	0.04
073766	Soil	12.2	18.6	0.42	22.9	0.002	<1	1.43	0.006	0.03	<0.1	0.9	0.04	0.02	23	0.3	0.04	4.9	0.87	<0.1	0.12
073767	Soil	19.9	19.3	0.54	18.3	0.002	<1	1.51	0.003	0.02	<0.1	1.7	0.03	<0.02	14	0.2	0.04	4.0	0.56	<0.1	<0.02
073768	Soil	17.0	17.4	0.40	21.5	0.002	1	1.38	0.003	0.02	<0.1	1.3	0.05	<0.02	18	0.2	0.04	3.9	0.72	<0.1	0.03
073769	Soil	9.5	9.8	0.23	37.4	0.005	1	1.09	0.018	0.03	<0.1	0.9	0.05	0.02	12	0.3	0.03	3.4	0.78	<0.1	0.02
073770	Soil	19.4	19.9	0.48	25.4	0.001	<1	1.52	0.003	0.03	<0.1	1.2	0.04	<0.02	8	0.2	0.04	4.0	0.83	<0.1	0.06
073801	Soil	29.6	13.7	0.45	48.2	<0.001	<1	1.72	0.003	0.06	<0.1	1.7	0.06	<0.02	10	0.2	<0.02	3.9	3.15	<0.1	0.07
073802	Soil	36.2	17.0	0.51	39.6	0.003	<1	1.50	0.003	0.04	<0.1	1.9	0.05	<0.02	27	0.4	0.02	4.0	0.94	<0.1	0.06
073803	Soil	20.7	16.7	0.33	31.2	0.004	<1	1.27	0.003	0.04	<0.1	0.6	0.06	0.06	35	0.3	0.03	4.9	0.93	<0.1	0.06
073804	Soil	33.1	21.3	0.63	23.6	0.002	<1	1.83	0.003	0.04	<0.1	1.6	0.03	0.04	45	0.3	<0.02	5.1	0.63	<0.1	0.11
073805	Soil	36.0	21.7	0.66	22.4	0.003	<1	1.89	0.002	0.04	<0.1	1.8	0.04	0.03	37	0.3	<0.02	5.4	0.61	<0.1	0.14
073806	Soil	36.2	14.7	0.47	47.1	0.002	<1	1.86	0.010	0.04	<0.1	3.5	0.04	0.02	27	0.3	0.02	4.2	1.37	<0.1	0.10
073807	Soil	24.8	21.1	0.63	29.1	0.002	<1	1.84	0.003	0.03	<0.1	1.7	0.04	0.04	41	0.3	<0.02	4.7	0.69	<0.1	0.16
073808	Soil	14.2	8.0	0.12	23.1	0.006	<1	0.69	0.003	0.02	<0.1	0.4	0.04	0.03	30	0.3	0.03	4.6	0.61	<0.1	<0.02
073809	Soil	20.7	17.2	0.27	24.2	0.016	<1	1.09	0.003	0.04	0.2	1.0	0.07	0.03	26	0.5	0.05	8.3	1.21	<0.1	<0.02
073810	Soil	34.6	17.3	0.60	35.2	0.002	<1	1.65	0.003	0.08	<0.1	2.6	0.05	<0.02	21	<0.1	0.03	4.0	1.10	<0.1	0.12
073811	Soil	44.6	23.0	0.65	37.5	0.001	<1	2.05	0.003	0.05	<0.1	3.0	0.07	<0.02	24	0.2	0.03	5.1	2.45	0.1	0.13
073812	Soil	21.1	19.5	0.47	40.2	0.009	<1	1.69	0.008	0.04	<0.1	1.4	0.05	0.05	48	0.2	0.02	4.4	0.96	<0.1	0.04
073813	Soil	11.5	7.8	0.16	37.5	0.009	<1	0.84	0.018	0.03	<0.1	0.5	0.04	0.03	23	0.2	<0.02	2.7	0.59	<0.1	<0.02
073814	Soil	27.2	16.7	0.46	45.8	0.002	<1	1.50	0.002	0.03	<0.1	1.1	0.04	<0.02	16	0.2	0.03	4.2	0.81	<0.1	0.04
073815	Soil	13.7	16.4	0.42	29.1	0.004	<1	1.41	0.003	0.03	<0.1	0.7	0.05	<0.02	17	<0.1	0.03	5.2	0.87	<0.1	0.02
073816	Soil	18.0	17.5	0.49	16.9	0.002	<1	1.58	0.002	0.03	<0.1	1.0	0.03	<0.02	18	0.2	0.04	4.8	0.78	<0.1	0.05
073817	Soil	27.0	20.1	0.67	23.5	<0.001	<1	1.86	0.002	0.03	<0.1	1.9	0.03	<0.02	17	0.2	0.02	4.7	0.84	<0.1	0.03
073818	Soil	24.6	18.6	0.59	21.4	0.002	<1	1.58	0.003	0.04	<0.1	1.7	0.02	<0.02	10	0.1	0.03	4.3	0.54	<0.1	0.04
073819	Soil	23.1	19.6	0.57	37.1	0.002	<1	1.69	0.003	0.04	<0.1	1.7	0.03	<0.02	14	0.3	0.03	4.4	0.65	<0.1	0.04
073820	Soil	24.2	19.3	0.56	37.1	0.002	<1	1.66	0.002	0.04	<0.1	1.4	0.03	<0.02	9	0.2	<0.02	4.6	0.61	<0.1	0.04



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000271.1

	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
073761	Soil	0.09	4.2	0.3	<0.05	2.1	6.16	29.1	0.02	<1	0.4	55.1	<10	<2
073762	Soil	0.08	4.5	0.4	<0.05	2.4	5.73	42.0	0.02	<1	0.5	44.4	<10	<2
073763	Soil	0.09	4.3	0.9	<0.05	2.7	3.22	32.7	0.03	<1	0.4	43.5	<10	2
073764	Soil	0.05	3.5	0.3	<0.05	2.3	7.47	36.3	0.04	<1	0.5	35.1	<10	<2
073765	Soil	<0.02	2.9	0.3	<0.05	2.7	9.94	43.7	0.04	<1	0.5	39.6	<10	<2
073766	Soil	0.11	5.9	0.4	<0.05	3.0	1.91	23.0	0.03	<1	0.2	33.5	<10	<2
073767	Soil	0.04	3.1	0.8	<0.05	1.1	3.64	37.5	0.03	<1	0.6	45.7	<10	<2
073768	Soil	0.14	6.9	0.3	<0.05	1.4	2.34	33.9	0.03	<1	0.3	34.7	<10	<2
073769	Soil	0.13	5.7	0.7	<0.05	1.1	3.29	18.3	<0.02	<1	0.4	21.4	<10	<2
073770	Soil	0.11	5.1	0.4	<0.05	1.6	2.27	37.2	0.03	<1	0.5	36.1	<10	<2
073801	Soil	<0.02	6.6	1.1	<0.05	2.8	7.22	62.6	<0.02	<1	1.6	18.8	<10	<2
073802	Soil	0.14	5.6	0.9	<0.05	3.2	11.69	71.3	0.03	<1	0.6	26.3	<10	<2
073803	Soil	0.20	5.7	0.9	<0.05	1.8	2.84	41.7	0.03	<1	0.2	18.1	<10	<2
073804	Soil	0.09	5.1	0.4	<0.05	4.0	7.29	68.5	0.03	<1	0.5	44.1	<10	<2
073805	Soil	0.09	4.9	0.5	<0.05	3.9	7.55	75.3	<0.02	<1	0.5	46.2	<10	<2
073806	Soil	0.08	5.5	0.5	<0.05	4.6	18.60	72.4	0.04	<1	1.4	29.8	<10	<2
073807	Soil	0.06	4.8	0.4	<0.05	5.1	9.53	51.0	0.02	<1	0.5	39.0	<10	<2
073808	Soil	0.18	3.9	1.1	<0.05	0.4	2.72	32.8	0.06	<1	0.2	6.3	<10	<2
073809	Soil	0.69	8.3	2.5	<0.05	0.4	2.59	41.6	0.02	<1	<0.1	15.5	<10	<2
073810	Soil	0.04	4.3	0.6	<0.05	9.7	15.51	70.3	0.04	<1	0.5	34.0	<10	<2
073811	Soil	0.04	4.9	1.2	<0.05	8.9	13.86	88.8	0.04	<1	0.9	43.4	<10	<2
073812	Soil	0.26	5.0	1.2	<0.05	1.7	6.87	48.3	0.02	<1	0.7	32.2	<10	<2
073813	Soil	0.14	4.8	0.9	<0.05	0.4	2.22	22.9	<0.02	<1	0.2	9.3	<10	<2
073814	Soil	0.14	5.4	0.6	<0.05	2.2	3.94	52.5	<0.02	<1	0.3	30.3	<10	<2
073815	Soil	0.22	7.7	0.9	<0.05	1.0	2.65	27.8	<0.02	<1	0.2	27.7	<10	<2
073816	Soil	0.10	4.9	0.4	<0.05	2.3	2.85	34.7	<0.02	<1	0.4	34.9	<10	<2
073817	Soil	<0.02	3.3	0.7	<0.05	1.7	5.68	50.5	0.03	<1	0.5	48.0	<10	<2
073818	Soil	0.02	3.0	0.4	<0.05	2.9	4.65	47.9	<0.02	<1	0.3	40.5	<10	<2
073819	Soil	0.06	4.6	0.5	<0.05	2.2	5.55	46.7	0.02	<1	0.3	41.3	<10	<2
073820	Soil	0.06	5.0	0.3	<0.05	1.5	4.03	46.5	<0.02	<1	0.4	41.6	<10	<2



# CERTIFICATE OF ANALYSIS

WHI16000271.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
070271	Soil	0.27	24.68	16.07	60.6	30	29.1	11.4	475	3.24	27.9	0.9	3.8	6.7	19.4	0.04	0.35	0.23	12	0.22	0.039
070272	Soil	0.26	9.15	8.61	44.2	76	15.9	6.2	158	2.26	13.2	0.4	0.3	4.9	4.6	0.04	0.23	0.17	14	0.02	0.017
070273	Soil	0.43	27.22	16.10	49.1	115	22.4	10.7	452	2.45	13.6	3.1	0.9	3.1	82.5	0.14	0.38	0.25	12	1.15	0.064
070274	Soil	0.40	26.65	28.61	45.8	32	20.9	11.6	270	3.18	31.9	0.7	1.7	6.8	18.9	0.08	0.99	0.35	13	0.13	0.026
070275	Soil	0.32	34.62	17.25	54.6	103	22.4	11.0	397	2.64	23.1	4.5	0.6	2.8	94.0	0.13	0.53	0.27	13	1.32	0.044
070276	Soil	0.67	36.57	40.52	80.9	52	35.8	20.2	414	3.82	12.0	1.5	1.9	5.5	10.1	0.06	1.71	0.40	16	0.07	0.067
070277	Soil	0.89	64.62	41.09	111.3	175	54.2	35.7	501	4.46	24.3	2.2	1.2	11.7	41.9	0.05	1.31	0.56	11	1.18	0.056
070278	Soil	0.60	102.13	25.25	42.0	144	35.2	25.5	418	3.53	16.1	2.9	4.5	2.3	174.0	0.11	1.84	0.28	9	6.38	0.155
070279	Soil	0.71	86.47	78.65	127.0	330	45.9	55.6	916	4.59	13.4	2.1	1.9	17.5	19.1	0.15	0.96	0.80	12	0.28	0.040
070280	Soil	0.50	37.88	39.95	90.7	246	38.5	21.2	572	4.17	24.4	1.7	1.8	14.1	24.0	0.24	0.97	0.39	14	0.38	0.066
070281	Soil	0.69	38.13	49.73	51.8	87	18.5	14.5	332	2.24	12.3	1.4	1.2	2.6	7.7	0.04	1.05	0.46	12	0.04	0.070
070282	Soil	0.67	39.26	31.10	107.2	82	39.4	16.7	462	4.72	16.6	2.0	0.4	2.8	7.4	0.18	1.64	0.37	12	0.09	0.044
070283	Soil	0.32	32.38	28.04	79.5	184	24.4	10.9	351	3.32	10.3	1.0	0.3	4.2	3.3	0.04	0.61	0.29	8	<0.01	0.037
070284	Soil	0.55	35.52	12.74	56.2	51	19.9	8.2	114	2.66	10.0	0.6	0.7	4.1	4.6	0.01	0.75	0.31	12	0.01	0.045
070285	Soil	0.53	19.45	16.05	52.1	91	17.5	7.4	228	2.60	13.5	0.8	<0.2	1.4	5.1	0.04	0.73	0.27	14	0.03	0.040
070286	Soil	0.45	24.86	17.11	59.7	113	21.3	8.5	205	4.10	19.0	0.7	<0.2	4.8	2.8	0.04	0.82	0.32	15	<0.01	0.044
070287	Soil	0.56	25.96	33.55	69.7	115	22.5	15.0	1194	3.30	24.6	1.8	0.4	3.2	116.2	0.16	0.86	0.34	12	1.26	0.075
070288	Soil	0.49	22.80	14.72	56.9	36	19.7	8.6	203	4.03	20.9	0.6	0.2	8.7	2.2	0.03	0.81	0.35	15	<0.01	0.031
070289	Soil	0.34	15.60	17.34	68.1	65	28.5	9.0	358	4.19	22.9	0.6	1.5	7.1	3.5	0.04	0.47	0.43	21	<0.01	0.034
070290	Soil	0.40	30.80	29.76	95.8	158	45.0	14.9	502	5.60	50.1	0.7	3.3	8.3	3.2	0.07	0.55	0.90	17	0.02	0.033
070291	Soil	0.39	24.54	22.89	73.2	53	25.8	9.8	249	4.32	26.6	0.7	1.3	7.8	3.7	0.05	0.74	0.46	15	0.01	0.032
070292	Soil	0.43	22.50	27.26	83.8	103	36.7	14.2	587	5.00	30.0	0.7	1.3	7.0	3.2	0.08	0.51	0.61	19	0.01	0.033
070293	Soil	0.52	21.60	30.09	71.1	118	31.9	13.4	574	4.19	26.6	0.6	1.4	6.2	3.9	0.10	0.59	1.06	18	0.02	0.038
070294	Soil	0.64	16.56	12.86	43.9	67	14.0	6.0	170	4.22	26.3	0.5	1.7	7.4	2.9	0.05	0.55	0.69	25	<0.01	0.043
070295	Soil	0.67	12.58	10.04	37.4	132	10.5	4.5	133	3.42	44.2	0.4	<0.2	4.7	3.3	0.05	0.39	0.45	29	<0.01	0.041
070296	Soil	0.22	9.37	7.00	16.8	44	6.6	2.3	40	0.95	6.5	0.3	1.2	1.7	2.7	0.02	0.22	0.12	6	0.01	0.027
070297	Soil	0.41	23.56	20.51	68.2	63	27.1	9.8	270	3.23	12.1	0.9	1.6	8.7	9.4	0.05	0.46	0.56	16	0.10	0.048
070298	Soil	0.28	37.25	23.98	83.3	59	34.4	17.4	551	3.73	10.6	0.8	2.5	14.1	28.1	0.06	0.67	0.49	13	0.26	0.050
070299	Soil	0.23	23.56	16.62	68.2	70	25.3	10.5	338	3.10	7.1	1.8	1.6	8.2	16.8	0.05	0.58	0.38	10	0.26	0.048
070300	Soil	0.37	28.07	26.07	95.2	74	31.3	14.8	563	3.74	12.7	1.1	1.7	9.4	16.1	0.07	0.69	0.49	12	0.23	0.061



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Client: Golden Predator Mining Corp. 510 - 580 Hornby Street Vancouver British Columbia V6C 3B6 Canada

Project: None Given Report Date: September 27, 2016

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Table with 22 columns: Method, Analyte, Unit, MDL, and 20 elements (La, Cr, Mg, Ba, Ti, B, Al, Na, K, W, Sc, Tl, S, Hg, Se, Te, Ga, Cs, Ge, Hf) with their respective values in ppm, ppb, or %.

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:** None Given  
**Report Date:** September 27, 2016

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
		MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10
070271	Soil	0.36	3.8	0.2	<0.05	1.8	3.31	38.6	<0.02	<1	0.2	46.8	<10	<2
070272	Soil	0.61	9.4	0.5	<0.05	0.6	1.67	43.9	<0.02	<1	0.2	30.3	<10	<2
070273	Soil	0.83	8.2	1.0	<0.05	1.9	5.77	26.6	<0.02	<1	0.4	42.0	<10	<2
070274	Soil	0.54	5.1	0.4	<0.05	2.1	2.95	35.7	0.02	<1	0.4	31.2	<10	<2
070275	Soil	0.91	8.1	0.7	<0.05	1.3	4.62	25.8	<0.02	<1	0.4	44.4	<10	<2
070276	Soil	0.17	5.2	0.5	<0.05	1.9	3.86	24.1	<0.02	<1	0.4	36.4	<10	<2
070277	Soil	<0.02	2.1	0.7	<0.05	10.1	9.69	35.0	0.03	<1	0.4	35.9	<10	<2
070278	Soil	0.14	4.1	0.5	<0.05	4.9	6.60	27.0	0.10	<1	0.4	6.3	<10	<2
070279	Soil	<0.02	2.7	1.0	<0.05	6.3	7.14	18.2	0.03	<1	0.8	53.0	<10	<2
070280	Soil	0.18	3.5	0.7	<0.05	4.1	8.95	31.9	0.03	<1	0.6	40.0	<10	<2
070281	Soil	0.14	5.6	1.9	<0.05	1.2	2.67	14.5	<0.02	<1	0.3	19.8	<10	<2
070282	Soil	<0.02	3.4	0.3	<0.05	1.1	5.81	30.8	0.05	<1	0.4	7.5	<10	<2
070283	Soil	<0.02	5.1	0.4	<0.05	1.2	1.93	26.1	<0.02	<1	0.1	6.1	<10	<2
070284	Soil	0.07	3.0	0.8	<0.05	1.0	1.15	12.9	<0.02	<1	0.1	25.7	<10	<2
070285	Soil	0.12	3.4	1.8	<0.05	1.0	1.66	17.9	<0.02	<1	0.1	10.4	<10	<2
070286	Soil	0.21	4.8	0.4	<0.05	1.5	1.70	25.9	<0.02	<1	0.2	23.2	<10	<2
070287	Soil	0.14	4.5	1.7	<0.05	1.2	4.95	22.1	0.02	<1	0.5	17.8	<10	<2
070288	Soil	0.18	5.5	0.5	<0.05	1.2	1.69	42.3	0.02	<1	0.2	24.9	<10	<2
070289	Soil	0.27	3.2	0.8	<0.05	1.9	1.27	30.6	<0.02	<1	0.2	45.9	<10	<2
070290	Soil	0.05	4.7	0.4	<0.05	3.8	1.76	30.6	0.02	<1	0.3	81.6	<10	<2
070291	Soil	0.27	4.1	0.6	<0.05	2.4	1.74	29.6	0.02	<1	0.2	35.3	<10	<2
070292	Soil	0.26	4.0	0.5	<0.05	2.2	1.73	29.3	0.02	<1	0.3	62.2	<10	<2
070293	Soil	0.25	4.0	1.1	<0.05	1.7	1.79	31.9	0.03	<1	0.2	52.3	<10	<2
070294	Soil	0.54	4.5	1.3	<0.05	1.1	1.57	46.0	0.03	<1	0.2	15.1	<10	<2
070295	Soil	0.72	6.1	1.3	<0.05	0.6	1.40	40.7	<0.02	<1	0.1	11.1	<10	<2
070296	Soil	0.11	2.6	0.6	<0.05	0.6	0.66	10.5	<0.02	<1	0.1	8.0	<10	<2
070297	Soil	0.52	9.9	1.2	<0.05	1.5	3.85	46.9	<0.02	<1	0.4	44.4	<10	<2
070298	Soil	0.09	7.5	0.8	<0.05	8.1	7.04	51.0	<0.02	<1	0.6	48.6	<10	<2
070299	Soil	0.10	4.1	0.4	<0.05	1.7	4.09	32.4	<0.02	<1	0.3	42.5	<10	<2
070300	Soil	0.15	5.0	0.6	<0.05	2.6	5.04	36.1	<0.02	<1	0.5	51.4	<10	<2



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Project: None Given

Report Date: September 27, 2016

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# CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251		
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P			
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001			
073531	Soil	0.80	68.93	99.85	104.5	165	37.7	24.2	1556	4.22	232.7	1.6	60.8	12.1	14.5	0.14	2.01	0.59	10	0.39	0.064			
073532	Soil	0.59	18.78	19.19	59.9	29	18.7	7.8	378	2.99	5.9	0.7	0.3	1.8	4.6	0.11	0.46	0.32	16	0.03	0.065			
073533	Soil	0.41	20.78	19.93	67.8	30	25.4	11.7	310	2.55	6.1	1.6	1.4	9.6	8.0	0.09	0.42	0.24	17	0.10	0.057			
073534	Soil	0.41	20.46	21.06	68.9	28	24.7	11.3	314	2.68	6.6	1.5	1.3	9.7	9.8	0.08	0.46	0.26	16	0.11	0.057			
073535	Soil	0.68	30.67	30.33	79.8	30	28.4	12.4	458	3.50	8.1	1.9	1.6	6.0	5.5	0.11	0.79	0.39	20	0.04	0.055			
073536	Soil	0.76	14.27	13.95	33.8	60	9.6	4.2	212	1.76	4.8	1.3	0.5	0.2	7.7	0.10	0.42	0.28	20	0.05	0.087			
073537	Soil	0.43	33.66	15.66	59.0	37	25.3	13.3	542	2.73	7.6	2.2	2.9	13.9	13.5	0.07	0.59	0.35	14	0.17	0.080			
073538	Soil	0.53	41.78	29.38	85.5	33	33.4	18.9	566	3.70	6.9	2.1	0.9	13.2	8.1	0.10	0.50	0.38	17	0.07	0.056			
073539	Soil	0.49	32.26	20.30	60.1	42	22.8	13.1	430	2.60	5.0	1.7	0.6	9.1	8.6	0.07	0.37	0.30	18	0.10	0.079			
073540	Soil	0.45	55.69	39.87	102.1	52	38.4	28.0	767	4.43	11.3	3.3	0.9	16.7	12.3	0.08	1.07	0.55	11	0.06	0.065			
073561	Soil	0.47	11.49	16.30	36.0	496	6.0	3.2	154	2.11	50.1	0.3	7.8	1.7	4.1	0.08	0.77	0.27	14	0.01	0.050			
073562	Soil	0.64	14.96	22.39	57.0	203	13.4	12.1	454	2.07	49.8	0.5	1.8	0.9	8.0	0.18	0.43	0.18	14	0.04	0.044			
073563	Soil	0.87	17.44	10.19	34.5	109	9.4	4.6	189	2.13	42.8	0.5	2.7	0.7	4.3	0.08	0.70	0.25	22	0.01	0.044			
073564	Soil	0.55	37.26	23.06	92.5	53	40.1	12.5	341	4.18	39.1	0.9	6.9	7.8	5.3	0.06	0.69	0.35	16	0.01	0.040			
073565	Soil	0.75	27.24	25.97	70.5	290	26.8	10.6	515	2.40	36.1	0.9	2.3	0.6	24.2	0.54	0.44	0.24	10	0.34	0.087			
073566	Soil	0.95	22.37	16.97	67.5	146	26.3	8.1	326	2.86	39.9	0.6	2.2	2.7	14.8	0.14	0.45	0.29	14	0.29	0.037			
073567	Soil	0.52	10.04	11.16	35.6	109	11.9	4.6	260	2.12	13.5	0.3	0.4	0.5	11.2	0.16	0.29	0.22	18	0.06	0.065			
073568	Soil	0.62	25.10	17.26	67.5	211	24.4	9.5	304	4.81	55.0	0.5	1.2	4.1	4.1	0.19	0.62	0.44	20	<0.01	0.090			
073569	Soil	0.31	7.72	8.24	53.0	134	7.9	3.6	352	1.19	11.0	0.3	0.3	0.7	8.5	0.15	0.19	0.13	13	0.08	0.040			
073570	Soil	0.59	17.09	13.95	51.9	252	21.4	8.8	489	3.78	15.8	0.4	3.2	2.3	4.7	0.07	0.42	0.34	22	0.02	0.098			



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251		
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
		ppm	ppm	%	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
073531	Soil	19.7	21.3	0.53	26.6	<0.001	<1	1.50	0.004	0.03	<0.1	4.3	0.03	0.04	44	0.2	0.02	4.2	1.48	<0.1	0.15	
073532	Soil	18.1	17.5	0.39	41.9	0.006	<1	1.53	0.006	0.04	<0.1	0.7	0.06	0.04	27	0.2	<0.02	4.5	0.87	<0.1	0.04	
073533	Soil	24.8	18.1	0.45	45.9	0.021	<1	1.29	0.002	0.05	0.1	1.7	0.05	<0.02	10	0.2	<0.02	3.5	0.86	<0.1	0.06	
073534	Soil	26.0	18.0	0.49	41.3	0.018	<1	1.27	0.003	0.05	<0.1	1.9	0.05	<0.02	12	0.1	<0.02	3.6	0.68	<0.1	0.06	
073535	Soil	25.2	23.6	0.61	45.6	0.012	<1	1.94	0.003	0.04	0.1	1.6	0.07	0.02	13	0.4	<0.02	4.9	1.05	<0.1	0.03	
073536	Soil	12.5	13.7	0.18	45.5	0.008	<1	0.91	0.015	0.05	<0.1	0.4	0.08	0.07	26	0.2	0.03	4.5	1.46	<0.1	<0.02	
073537	Soil	24.5	16.5	0.49	32.6	0.012	<1	1.28	0.003	0.04	<0.1	1.9	0.03	<0.02	7	0.2	<0.02	3.4	0.86	<0.1	0.09	
073538	Soil	40.0	23.7	0.67	48.1	0.011	<1	1.86	0.002	0.04	<0.1	2.1	0.05	<0.02	12	0.2	0.03	5.1	1.11	<0.1	0.02	
073539	Soil	36.1	16.9	0.44	30.1	0.022	<1	1.36	0.014	0.04	<0.1	1.6	0.05	<0.02	7	0.2	0.03	4.1	0.75	<0.1	0.04	
073540	Soil	55.2	21.0	0.68	25.4	0.002	<1	1.85	0.003	0.04	<0.1	2.6	0.03	<0.02	<5	0.2	0.02	5.2	1.58	<0.1	0.06	
073561	Soil	17.1	8.9	0.06	25.6	0.006	<1	0.55	0.014	0.03	<0.1	0.5	0.04	<0.02	21	0.2	0.04	3.9	1.43	<0.1	<0.02	
073562	Soil	14.2	12.9	0.19	49.4	0.009	<1	1.09	0.018	0.03	0.2	0.6	0.04	<0.02	33	0.2	<0.02	4.4	2.06	<0.1	<0.02	
073563	Soil	22.2	8.8	0.03	32.1	0.009	<1	0.50	0.009	0.03	0.1	0.4	0.05	<0.02	18	0.1	0.04	4.2	2.49	<0.1	<0.02	
073564	Soil	29.9	29.4	0.68	37.1	0.005	<1	1.75	0.004	0.05	<0.1	1.8	0.03	<0.02	8	0.1	0.07	5.3	0.81	<0.1	0.03	
073565	Soil	10.2	17.8	0.38	53.7	0.007	<1	1.19	0.013	0.04	<0.1	0.6	0.03	0.05	25	0.3	0.03	3.7	0.95	<0.1	0.02	
073566	Soil	16.6	23.1	0.45	40.1	0.006	<1	1.14	0.007	0.03	<0.1	1.1	0.03	0.02	10	0.2	0.05	4.5	1.49	<0.1	0.02	
073567	Soil	15.0	12.0	0.17	32.3	0.009	<1	0.73	0.010	0.04	<0.1	0.4	0.03	<0.02	13	0.2	0.04	4.2	0.86	<0.1	<0.02	
073568	Soil	19.7	24.5	0.40	26.0	0.005	<1	1.48	0.006	0.02	<0.1	1.2	0.03	<0.02	13	0.2	0.08	6.6	1.32	<0.1	<0.02	
073569	Soil	11.7	7.3	0.10	54.0	0.006	<1	0.67	0.010	0.03	<0.1	0.5	0.03	<0.02	26	0.2	0.03	3.7	0.67	<0.1	<0.02	
073570	Soil	20.5	20.5	0.43	42.2	0.007	<1	1.35	0.006	0.04	<0.1	0.9	0.03	<0.02	24	0.2	0.06	6.1	0.58	<0.1	<0.02	



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000271.1

	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
073531	Soil	0.04	2.7	1.1	<0.05	5.5	14.46	38.8	0.03	<1	0.5	46.6	<10	<2
073532	Soil	0.27	6.2	0.8	<0.05	1.4	2.37	34.3	0.02	<1	0.3	29.5	<10	<2
073533	Soil	0.32	5.2	0.3	<0.05	2.8	4.79	46.1	<0.02	<1	0.4	29.3	<10	<2
073534	Soil	0.19	4.9	0.3	<0.05	2.4	5.47	48.2	<0.02	<1	0.4	32.5	<10	<2
073535	Soil	0.27	6.2	0.6	<0.05	1.2	5.52	46.1	<0.02	<1	0.6	41.8	<10	<2
073536	Soil	0.24	8.1	0.9	<0.05	0.3	2.84	23.0	<0.02	<1	0.3	8.7	<10	<2
073537	Soil	0.12	3.6	0.3	<0.05	4.3	6.53	47.1	<0.02	<1	0.5	30.8	<10	<2
073538	Soil	0.11	4.6	0.3	<0.05	2.1	7.91	72.3	<0.02	<1	0.8	49.9	<10	<2
073539	Soil	0.24	4.0	0.4	<0.05	2.1	5.26	69.5	0.02	<1	0.4	33.3	<10	<2
073540	Soil	0.02	3.1	0.3	<0.05	5.7	8.40	105.2	0.03	<1	1.1	58.5	<10	<2
073561	Soil	0.20	5.1	0.8	<0.05	0.1	0.87	30.6	<0.02	<1	0.1	4.4	<10	<2
073562	Soil	0.27	7.3	1.2	<0.05	0.2	1.56	26.6	<0.02	<1	0.3	16.0	<10	<2
073563	Soil	0.19	8.6	1.9	<0.05	<0.1	1.35	41.7	<0.02	<1	0.1	1.9	<10	<2
073564	Soil	0.30	3.6	0.6	<0.05	1.2	2.39	54.9	<0.02	<1	0.4	48.1	<10	<2
073565	Soil	0.52	4.7	2.2	<0.05	1.0	3.34	19.3	<0.02	<1	0.3	28.2	<10	<2
073566	Soil	0.42	6.3	1.4	<0.05	0.8	1.27	30.9	<0.02	<1	0.2	34.9	<10	<2
073567	Soil	0.36	3.9	1.1	<0.05	0.1	0.87	26.8	<0.02	<1	0.1	11.8	<10	<2
073568	Soil	0.41	4.9	0.6	<0.05	0.7	1.24	36.3	<0.02	<1	0.1	35.4	<10	<2
073569	Soil	0.31	4.1	0.6	<0.05	0.1	0.91	23.0	<0.02	<1	0.2	9.0	<10	<2
073570	Soil	0.37	4.5	0.6	<0.05	0.2	1.45	36.2	<0.02	<1	0.2	33.5	<10	<2



# QUALITY CONTROL REPORT

WHI16000271.1

Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
MDL		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
Pulp Duplicates																						
072761	Soil	0.61	17.18	18.51	76.9	297	25.3	11.6	409	3.76	14.4	0.6	1.2	7.5	6.3	0.08	0.35	0.37	20	0.03	0.076	
REP 072761	QC	0.60	16.80	18.17	76.9	299	24.4	11.4	389	3.74	14.4	0.6	1.1	7.3	6.2	0.08	0.34	0.37	20	0.03	0.074	
072811	Soil	1.08	121.37	178.15	198.1	912	41.2	60.8	3755	4.81	45.9	2.3	14.5	5.9	9.7	0.60	1.19	1.01	17	0.22	0.101	
REP 072811	QC	1.10	120.34	176.95	188.2	908	41.3	60.2	3797	4.78	45.7	2.2	20.6	5.9	9.5	0.58	1.15	1.01	18	0.22	0.104	
073543	Soil	0.52	26.19	19.92	81.2	39	30.0	10.2	273	3.59	5.8	1.7	0.8	12.0	8.6	0.03	0.38	0.48	15	0.05	0.077	
REP 073543	QC	0.51	27.73	20.58	81.0	37	28.8	10.3	278	3.62	5.7	1.7	0.6	12.3	8.6	0.03	0.39	0.50	15	0.05	0.076	
073729	Soil	0.19	21.59	16.64	67.6	18	29.0	13.8	499	3.26	5.5	0.6	0.8	10.5	6.2	0.02	0.21	0.31	14	0.05	0.038	
REP 073729	QC	0.20	22.66	16.77	71.2	22	29.4	14.0	513	3.32	5.9	0.6	1.1	11.0	6.4	0.01	0.23	0.31	14	0.05	0.037	
072915	Soil	0.47	26.70	43.73	72.7	41	25.6	13.3	648	3.39	8.5	1.2	2.5	4.9	5.3	0.05	0.47	0.46	15	0.03	0.084	
REP 072915	QC	0.43	26.62	41.12	67.7	49	23.6	12.9	662	3.32	7.8	1.1	4.6	5.6	5.3	0.06	0.44	0.39	15	0.03	0.090	
073916	Soil	0.47	34.06	19.84	80.3	14	30.8	12.6	357	4.16	7.9	1.1	0.7	8.1	5.4	0.11	0.55	0.55	17	0.04	0.052	
REP 073916	QC	0.55	32.73	20.34	80.4	20	31.9	12.9	358	4.14	7.5	1.0	1.1	8.7	5.1	0.11	0.55	0.55	16	0.04	0.047	
073767	Soil	0.34	32.75	34.20	81.3	68	32.0	12.5	357	3.90	18.1	0.8	2.9	11.2	4.2	0.06	1.29	0.45	9	0.03	0.042	
REP 073767	QC	0.36	33.69	35.71	83.4	67	32.5	12.3	356	3.91	18.1	0.8	2.8	11.3	4.4	0.06	1.40	0.47	9	0.03	0.043	
070283	Soil	0.32	32.38	28.04	79.5	184	24.4	10.9	351	3.32	10.3	1.0	0.3	4.2	3.3	0.04	0.61	0.29	8	<0.01	0.037	
REP 070283	QC	0.35	35.79	28.21	90.2	200	25.7	11.3	364	3.39	11.3	1.1	0.4	4.7	3.5	0.05	0.71	0.31	8	<0.01	0.042	
070294	Soil	0.64	16.56	12.86	43.9	67	14.0	6.0	170	4.22	26.3	0.5	1.7	7.4	2.9	0.05	0.55	0.69	25	<0.01	0.043	
REP 070294	QC	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.	
073561	Soil	0.47	11.49	16.30	36.0	496	6.0	3.2	154	2.11	50.1	0.3	7.8	1.7	4.1	0.08	0.77	0.27	14	0.01	0.050	
REP 073561	QC	0.44	11.05	15.70	34.7	505	5.7	3.2	153	2.12	49.8	0.3	11.5	1.6	4.1	0.06	0.73	0.26	14	0.01	0.053	
Reference Materials																						
STD DS10	Standard	15.53	158.21	152.14	369.7	1792	77.2	13.5	906	2.76	44.7	2.7	73.0	8.0	65.8	2.44	9.29	11.92	45	1.06	0.074	
STD DS10	Standard	15.86	158.00	154.36	364.1	1823	77.1	13.4	884	2.79	44.8	2.6	80.8	7.9	66.2	2.35	9.11	11.82	44	1.09	0.075	
STD DS10	Standard	15.11	153.21	152.42	367.8	1775	73.9	12.4	906	2.75	44.3	2.7	105.3	7.5	65.7	2.37	9.17	11.93	43	1.07	0.077	
STD DS10	Standard	15.01	153.08	147.26	352.6	1713	73.2	12.1	848	2.68	43.2	2.6	75.0	7.2	64.3	2.42	8.70	11.73	42	1.05	0.071	
STD DS10	Standard	14.45	154.32	148.99	363.2	1900	73.1	12.8	879	2.76	44.1	2.7	74.3	7.5	71.8	2.34	9.78	13.04	43	1.06	0.071	
STD DS10	Standard	15.01	157.30	150.40	356.3	1833	75.5	12.9	848	2.70	43.4	2.7	85.9	7.7	68.8	2.42	9.81	13.29	42	1.07	0.069	
STD DS10	Standard	14.81	157.46	146.66	365.5	1902	74.5	12.0	872	2.75	45.9	2.5	65.5	7.3	63.4	2.82	9.66	12.02	41	1.06	0.075	



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Project: None Given  
Report Date: September 27, 2016

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# QUALITY CONTROL REPORT

## WHI16000271.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
Pulp Duplicates																					
072761	Soil	27.1	21.9	0.49	43.1	0.005	<1	1.51	0.006	0.04	0.2	1.3	0.06	<0.02	27	<0.1	0.05	6.5	1.61	<0.1	<0.02
REP 072761	QC	26.6	21.0	0.48	42.9	0.005	<1	1.48	0.005	0.05	0.1	1.3	0.06	<0.02	29	<0.1	0.04	6.1	1.60	<0.1	<0.02
072811	Soil	23.7	25.5	0.59	67.6	0.008	<1	2.08	0.011	0.06	<0.1	3.3	0.09	0.04	49	<0.1	0.11	5.6	3.61	<0.1	0.08
REP 072811	QC	23.6	24.8	0.60	64.9	0.007	<1	2.10	0.009	0.05	<0.1	3.2	0.08	0.04	49	0.1	0.10	5.6	3.58	<0.1	0.07
073543	Soil	60.0	23.0	0.68	18.9	0.006	<1	1.74	0.004	0.04	<0.1	1.6	0.05	<0.02	11	0.3	0.03	4.8	0.85	<0.1	0.09
REP 073543	QC	59.4	23.1	0.68	20.5	0.006	<1	1.70	0.004	0.04	<0.1	1.6	0.05	<0.02	14	0.2	0.02	4.8	0.86	<0.1	0.08
073729	Soil	43.0	22.9	0.59	37.9	0.005	<1	1.60	0.007	0.07	<0.1	1.6	0.03	<0.02	10	<0.1	<0.02	4.4	0.57	<0.1	0.02
REP 073729	QC	43.1	23.6	0.60	38.4	0.006	<1	1.60	0.007	0.06	<0.1	1.6	0.04	<0.02	6	<0.1	<0.02	4.4	0.56	<0.1	0.04
072915	Soil	27.7	21.4	0.57	24.3	0.008	<1	1.62	0.005	0.03	0.1	1.2	0.04	0.02	22	0.3	0.02	4.8	1.15	<0.1	0.05
REP 072915	QC	30.7	20.9	0.56	24.6	0.011	<1	1.59	0.006	0.03	<0.1	1.5	0.05	0.03	10	<0.1	<0.02	4.8	1.25	0.2	0.05
073916	Soil	30.6	22.9	0.61	23.6	0.006	<1	1.95	0.002	0.03	<0.1	1.3	0.04	<0.02	16	0.2	0.03	5.2	0.72	0.1	0.08
REP 073916	QC	30.6	23.3	0.61	24.1	0.006	<1	1.94	0.002	0.03	<0.1	1.5	0.05	<0.02	16	0.2	0.05	5.2	0.71	0.1	0.10
073767	Soil	19.9	19.3	0.54	18.3	0.002	<1	1.51	0.003	0.02	<0.1	1.7	0.03	<0.02	14	0.2	0.04	4.0	0.56	<0.1	<0.02
REP 073767	QC	20.7	20.4	0.54	18.7	0.002	1	1.51	0.003	0.02	<0.1	1.8	0.03	<0.02	17	0.2	0.03	4.3	0.58	<0.1	0.03
070283	Soil	13.9	10.7	0.11	28.3	<0.001	<1	0.77	0.002	0.04	<0.1	0.9	0.04	<0.02	14	0.2	0.04	2.2	0.64	<0.1	0.03
REP 070283	QC	14.9	11.4	0.10	30.3	<0.001	<1	0.77	0.002	0.04	<0.1	0.9	0.04	<0.02	11	0.2	0.03	2.4	0.68	<0.1	0.04
070294	Soil	24.9	17.2	0.24	21.1	0.004	<1	1.14	0.005	0.04	0.1	1.1	0.05	<0.02	18	0.2	0.07	7.2	0.64	<0.1	<0.02
REP 070294	QC	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.
073561	Soil	17.1	8.9	0.06	25.6	0.006	<1	0.55	0.014	0.03	<0.1	0.5	0.04	<0.02	21	0.2	0.04	3.9	1.43	<0.1	<0.02
REP 073561	QC	17.3	8.5	0.06	24.8	0.007	<1	0.55	0.014	0.03	<0.1	0.5	0.04	<0.02	22	0.2	0.04	3.8	1.40	<0.1	<0.02
Reference Materials																					
STD DS10	Standard	19.2	57.0	0.77	367.3	0.083	6	1.10	0.079	0.35	3.4	3.2	5.30	0.27	276	2.2	5.17	4.2	2.74	<0.1	0.08
STD DS10	Standard	18.5	58.0	0.78	362.8	0.084	7	1.09	0.078	0.35	3.4	3.2	5.19	0.28	287	2.5	5.27	4.7	2.75	<0.1	0.05
STD DS10	Standard	18.3	57.3	0.77	364.2	0.081	6	1.05	0.070	0.34	3.5	3.0	5.13	0.28	282	2.4	5.01	4.4	2.72	<0.1	0.07
STD DS10	Standard	18.0	54.7	0.76	337.1	0.078	7	1.03	0.071	0.34	3.5	3.1	5.17	0.27	278	2.6	4.76	3.9	2.63	<0.1	0.07
STD DS10	Standard	17.8	54.3	0.77	371.2	0.080	6	1.06	0.072	0.34	3.3	2.8	4.92	0.27	256	2.1	5.14	4.3	2.65	0.2	0.07
STD DS10	Standard	18.5	56.7	0.75	344.6	0.081	8	1.07	0.071	0.33	3.4	3.1	5.18	0.26	290	2.5	4.79	4.6	2.61	0.2	0.07
STD DS10	Standard	17.6	55.1	0.76	356.6	0.078	6	1.04	0.069	0.33	3.1	2.9	5.17	0.26	280	2.3	5.06	4.7	2.86	<0.1	0.03



# QUALITY CONTROL REPORT

WHI16000271.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates														
072761	Soil	0.52	9.7	0.6	<0.05	1.2	1.60	49.2	0.02	<1	0.2	45.7	<10	<2
REP 072761	QC	0.47	9.6	0.7	<0.05	1.2	1.51	48.5	<0.02	<1	0.1	44.9	<10	<2
072811	Soil	0.21	5.8	0.2	<0.05	3.3	11.74	46.8	0.09	<1	1.3	48.1	<10	<2
REP 072811	QC	0.23	5.7	0.2	<0.05	3.2	11.55	45.6	0.09	<1	1.0	47.5	<10	<2
073543	Soil	0.16	5.7	0.6	<0.05	3.1	5.22	111.9	<0.02	<1	0.2	45.7	<10	<2
REP 073543	QC	0.15	5.8	0.8	<0.05	3.1	5.28	111.9	0.02	<1	0.3	47.5	<10	<2
073729	Soil	0.05	4.2	0.5	<0.05	1.2	4.95	82.6	<0.02	<1	0.2	44.0	<10	<2
REP 073729	QC	0.15	4.3	0.6	<0.05	1.3	4.98	86.0	<0.02	<1	0.3	44.8	<10	<2
072915	Soil	0.18	5.1	0.6	<0.05	1.8	4.15	52.1	<0.02	<1	0.2	40.4	<10	<2
REP 072915	QC	0.20	5.6	0.4	<0.05	2.2	4.41	56.1	<0.02	<1	0.1	40.6	<10	<2
073916	Soil	0.18	4.2	0.2	<0.05	3.3	4.16	56.2	<0.02	<1	0.2	44.3	<10	<2
REP 073916	QC	0.18	4.1	0.2	<0.05	3.6	3.97	56.7	<0.02	<1	0.3	42.6	<10	3
073767	Soil	0.04	3.1	0.8	<0.05	1.1	3.64	37.5	0.03	<1	0.6	45.7	<10	<2
REP 073767	QC	0.04	3.2	0.7	<0.05	1.1	3.75	39.6	0.03	<1	0.4	45.1	<10	<2
070283	Soil	<0.02	5.1	0.4	<0.05	1.2	1.93	26.1	<0.02	<1	0.1	6.1	<10	<2
REP 070283	QC	<0.02	5.4	0.6	<0.05	1.7	2.12	27.4	0.02	<1	0.2	6.7	<10	<2
070294	Soil	0.54	4.5	1.3	<0.05	1.1	1.57	46.0	0.03	<1	0.2	15.1	<10	<2
REP 070294	QC	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.
073561	Soil	0.20	5.1	0.8	<0.05	0.1	0.87	30.6	<0.02	<1	0.1	4.4	<10	<2
REP 073561	QC	0.20	5.2	0.9	<0.05	0.1	0.86	31.4	<0.02	<1	<0.1	4.6	<10	<2
Reference Materials														
STD DS10	Standard	1.79	29.2	1.7	<0.05	2.7	8.37	37.9	0.23	44	0.5	19.5	121	178
STD DS10	Standard	1.69	29.6	1.7	<0.05	2.5	8.35	37.3	0.25	44	0.6	19.4	114	173
STD DS10	Standard	1.73	28.9	1.6	<0.05	2.6	8.19	36.8	0.26	46	0.6	19.2	110	188
STD DS10	Standard	1.75	27.9	1.6	<0.05	2.2	7.89	35.9	0.23	39	0.5	19.5	115	171
STD DS10	Standard	1.66	27.6	1.6	<0.05	2.6	7.82	35.6	0.20	53	0.6	19.9	100	192
STD DS10	Standard	1.52	27.5	1.4	<0.05	2.6	7.72	36.1	0.24	61	0.5	20.0	109	171
STD DS10	Standard	1.47	28.9	1.6	<0.05	2.1	7.54	35.4	0.27	52	0.6	20.4	96	194



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**Project:** None Given  
**Report Date:** September 27, 2016

**Page:** 2 of 2 **Part:** 1 of 3

# QUALITY CONTROL REPORT

WHI16000271.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
STD DS10	Standard	15.09	160.39	140.94	348.4	1852	74.0	13.0	858	2.80	45.7	2.6	82.6	7.2	64.8	2.63	9.19	11.25	42	1.08	0.075
STD DS10	Standard	15.34	162.75	142.71	379.3	1862	78.0	13.1	861	2.75	44.5	2.5	69.0	7.0	64.8	2.73	9.43	11.95	44	1.05	0.073
STD DS10	Standard	14.55	157.35	143.22	356.4	1762	75.6	12.9	821	2.77	44.1	2.5	87.7	7.5	63.3	2.73	8.86	11.84	44	1.06	0.073
STD OXC129	Standard	1.42	28.37	6.73	42.8	11	81.1	20.7	421	2.99	0.6	0.7	193.3	2.0	185.8	<0.01	0.03	<0.02	51	0.67	0.097
STD OXC129	Standard	1.30	27.82	6.48	40.5	16	81.8	20.9	431	3.08	0.8	0.7	192.2	1.9	180.8	0.03	0.04	<0.02	53	0.69	0.103
STD OXC129	Standard	1.28	27.73	6.41	41.9	12	80.5	20.6	410	3.02	0.5	0.7	198.5	1.8	181.0	<0.01	0.03	<0.02	50	0.67	0.102
STD OXC129	Standard	1.27	27.13	6.17	41.8	11	78.5	19.8	421	2.96	0.7	0.7	188.7	1.8	190.2	0.01	0.03	<0.02	51	0.69	0.097
STD OXC129	Standard	1.29	26.31	6.47	39.7	23	74.3	19.3	421	2.98	0.3	0.7	207.9	1.9	199.8	0.04	0.04	<0.02	50	0.65	0.100
STD OXC129	Standard	1.38	27.39	6.46	39.5	19	80.3	20.4	435	3.12	0.7	0.7	204.9	1.9	195.3	0.04	0.04	<0.02	50	0.66	0.094
STD OXC129	Standard	1.30	28.63	6.27	40.0	14	77.3	19.7	405	3.05	0.5	0.7	195.1	1.8	186.1	0.03	0.04	<0.02	49	0.65	0.101
STD OXC129	Standard	1.31	28.88	6.25	39.9	14	80.0	21.1	421	3.07	0.8	0.7	191.2	1.8	181.5	0.03	0.04	<0.02	50	0.65	0.105
STD OXC129	Standard	1.30	28.84	6.19	39.2	12	80.8	20.3	414	2.98	0.6	0.6	194.7	1.6	174.4	0.04	0.03	<0.02	50	0.63	0.099
STD OXC129	Standard	1.28	29.49	6.20	41.1	20	80.8	20.3	409	3.01	0.4	0.7	189.6	1.7	189.2	0.04	0.04	0.05	51	0.69	0.098
STD DS10 Expected		15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	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	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665	0.102
BLK	Blank	<0.01	<0.01	<0.01	<0.1	3	<0.1	<0.1	<1	<0.01	0.4	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.3	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.01	<0.01	<0.1	<2	0.1	<0.1	1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.03	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.02	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



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**Project:** None Given  
**Report Date:** September 27, 2016

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# QUALITY CONTROL REPORT

## WHI16000271.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
STD DS10	Standard	16.6	55.3	0.77	343.8	0.081	7	1.06	0.072	0.34	3.3	2.8	4.83	0.27	281	2.3	4.85	4.3	2.64	0.1	0.05
STD DS10	Standard	17.5	56.5	0.76	346.4	0.080	8	1.05	0.073	0.34	3.4	2.8	5.04	0.28	277	2.4	4.84	4.3	2.66	0.1	0.03
STD DS10	Standard	17.4	54.4	0.77	333.3	0.081	6	1.08	0.079	0.35	3.0	2.8	4.99	0.28	257	2.3	4.71	4.4	2.72	<0.1	0.06
STD OXC129	Standard	13.0	52.7	1.51	50.7	0.409	2	1.60	0.595	0.38	<0.1	1.3	0.04	<0.02	<5	<0.1	<0.02	5.6	0.18	0.1	0.31
STD OXC129	Standard	12.8	53.4	1.56	49.5	0.416	<1	1.62	0.602	0.38	<0.1	1.3	0.03	<0.02	<5	<0.1	<0.02	5.8	0.17	<0.1	0.30
STD OXC129	Standard	12.6	52.9	1.53	49.5	0.405	<1	1.58	0.595	0.38	<0.1	1.1	0.04	<0.02	<5	<0.1	<0.02	5.5	0.16	<0.1	0.28
STD OXC129	Standard	12.3	53.1	1.51	46.3	0.399	1	1.57	0.592	0.37	<0.1	1.2	0.04	<0.02	<5	0.1	<0.02	5.7	0.15	<0.1	0.21
STD OXC129	Standard	12.3	48.9	1.51	48.1	0.406	1	1.54	0.590	0.37	<0.1	1.4	0.04	<0.02	<5	<0.1	<0.02	5.1	0.16	0.1	0.31
STD OXC129	Standard	12.7	51.1	1.54	50.4	0.391	<1	1.56	0.591	0.37	<0.1	1.0	0.03	<0.02	<5	<0.1	<0.02	5.3	0.17	0.2	0.25
STD OXC129	Standard	12.3	51.1	1.53	50.5	0.393	1	1.54	0.584	0.36	<0.1	0.9	0.03	<0.02	5	<0.1	<0.02	5.7	0.17	<0.1	0.22
STD OXC129	Standard	12.2	53.6	1.50	49.0	0.403	<1	1.55	0.598	0.38	<0.1	1.2	0.03	<0.02	<5	<0.1	<0.02	5.4	0.17	<0.1	0.23
STD OXC129	Standard	12.7	53.6	1.53	47.0	0.404	<1	1.54	0.597	0.38	<0.1	1.1	0.03	<0.02	<5	0.1	<0.02	5.3	0.17	<0.1	0.24
STD OXC129	Standard	11.3	52.0	1.45	47.0	0.388	<1	1.60	0.611	0.40	<0.1	0.7	0.03	<0.02	<5	0.1	<0.02	5.3	0.15	<0.1	0.24
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0259	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	2.63	0.08	0.06
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6	0.16		0.24
BLK	Blank	<0.5	0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	0.6	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	0.03	<0.1	<0.02	0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	0.1	<0.02	<0.1	<0.02	<0.1	<0.02



# QUALITY CONTROL REPORT

WHI16000271.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
STD DS10	Standard	1.50	28.2	1.5	<0.05	2.2	7.71	34.1	0.23	41	0.6	20.8	104	183
STD DS10	Standard	1.41	27.6	1.5	<0.05	2.1	7.61	34.0	0.25	47	0.5	20.8	95	180
STD DS10	Standard	1.56	27.5	1.6	<0.05	2.4	7.77	36.0	0.23	46	0.5	18.8	95	170
STD OXC129	Standard	1.61	16.7	0.7	<0.05	22.0	4.76	23.8	<0.02	<1	1.0	2.3	<10	<2
STD OXC129	Standard	1.53	16.6	0.7	<0.05	20.8	4.80	23.3	<0.02	<1	0.7	2.3	<10	<2
STD OXC129	Standard	1.43	16.1	0.7	<0.05	21.7	4.70	23.3	<0.02	<1	0.7	2.2	<10	<2
STD OXC129	Standard	1.48	16.3	0.8	<0.05	16.8	4.83	23.3	<0.02	<1	0.7	2.5	<10	<2
STD OXC129	Standard	1.28	15.8	0.7	<0.05	22.1	4.68	23.2	<0.02	<1	0.8	2.3	17	<2
STD OXC129	Standard	1.43	16.1	0.7	<0.05	18.7	4.62	23.2	<0.02	<1	1.0	2.0	<10	<2
STD OXC129	Standard	1.33	16.0	0.6	<0.05	14.7	4.57	22.5	<0.02	<1	1.0	2.2	<10	<2
STD OXC129	Standard	1.69	16.3	0.7	<0.05	17.9	4.65	22.3	<0.02	<1	0.7	2.2	<10	<2
STD OXC129	Standard	1.47	15.8	0.7	<0.05	16.2	4.59	22.0	<0.02	<1	0.8	2.4	<10	<2
STD OXC129	Standard	1.29	15.0	0.7	<0.05	17.8	4.64	22.3	<0.02	<1	0.8	2.3	<10	<2
STD DS10 Expected		1.62	27.7	1.6		2.7	7.77	37	0.23	50	0.63	19.4	110	191
STD OXC129 Expected		1.4		0.7		21	4.7	23.7			0.8	2.22		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

**Client:** **Golden Predator Mining Corp.**  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

Submitted By: M. Burke  
Receiving Lab: Canada-Whitehorse  
Received: September 09, 2016  
Report Date: September 23, 2016  
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# CERTIFICATE OF ANALYSIS

WHI16000272.1

## CLIENT JOB INFORMATION

Project: None Given  
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: Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6  
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
AQ251_EXT	319	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
SHP01	320	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.



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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Client: **Golden Predator Mining Corp.**

510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

Project: None Given

Report Date: September 23, 2016

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Part: 1 of 3

# CERTIFICATE OF ANALYSIS

WHI16000272.1

Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
073571	Soil	0.45	14.94	10.74	50.0	69	18.5	5.7	215	3.44	12.6	0.5	1.3	5.2	2.5	0.06	0.42	0.30	15	<0.01	0.056
073572	Soil	0.51	29.69	22.11	70.5	117	29.8	12.9	426	3.85	24.8	0.9	7.9	8.4	4.2	0.08	0.72	0.42	18	0.01	0.047
073573	Soil	0.36	15.31	11.30	61.2	95	25.3	8.1	324	3.50	11.7	0.5	1.2	3.5	3.0	0.06	0.33	0.28	16	<0.01	0.029
073574	Soil	0.07	0.92	1.41	2.0	70	0.5	0.4	9	0.18	0.3	0.1	<0.2	<0.1	5.1	0.01	0.02	0.03	4	0.02	0.018
073575	Soil	0.49	85.63	21.38	59.4	297	23.6	11.5	736	2.36	17.9	10.9	5.5	1.9	60.9	0.23	0.43	0.31	13	1.89	0.097
073576	Soil	0.30	39.85	18.37	64.5	180	28.2	9.8	359	3.17	278.4	3.5	8.2	3.2	33.2	0.14	0.55	0.36	13	0.89	0.053
073577	Soil	0.32	12.20	15.77	39.5	30	20.3	7.7	177	2.77	42.0	0.5	4.8	7.6	4.7	0.04	0.24	0.26	15	0.04	0.023
073578	Soil	0.17	16.01	14.23	46.6	20	19.1	7.9	270	2.29	19.3	0.5	1.6	8.5	4.5	0.02	0.23	0.19	11	0.05	0.028
073579	Soil	0.36	12.23	21.40	69.7	103	15.9	9.2	316	2.95	54.0	0.4	1.5	5.3	8.2	0.11	0.33	0.27	25	0.09	0.020
073580	Soil	0.25	7.03	8.75	49.2	91	14.5	5.1	202	2.62	16.8	0.4	1.8	5.9	3.5	0.03	0.20	0.23	17	0.01	0.028
073581	Soil	0.58	12.96	11.59	46.3	131	11.0	4.8	154	3.24	39.1	0.4	1.3	4.5	4.7	0.17	0.45	0.34	24	0.03	0.044
073582	Soil	0.33	7.09	8.42	37.9	44	8.4	3.8	165	2.31	18.5	0.3	<0.2	3.1	6.3	0.12	0.25	0.23	16	0.04	0.034
073583	Soil	0.48	7.68	11.30	50.9	67	8.7	5.2	179	2.41	15.9	0.4	0.7	3.8	3.8	0.09	0.30	0.26	24	0.02	0.030
073584	Soil	0.31	7.93	8.87	35.2	31	12.0	5.2	163	2.37	36.2	0.4	0.4	5.9	2.9	0.02	0.22	0.21	14	<0.01	0.031
073585	Soil	0.19	9.99	8.61	32.5	57	12.7	4.5	152	2.21	17.7	0.4	1.0	6.2	4.3	0.03	0.18	0.18	16	0.02	0.019
073586	Soil	0.27	8.15	7.51	44.7	78	13.6	4.5	194	2.44	25.3	0.3	1.3	3.3	4.5	0.03	0.19	0.20	15	0.02	0.028
073587	Soil	0.30	7.00	8.40	27.8	26	12.1	4.4	134	2.03	14.0	0.3	7.2	5.7	7.5	0.01	0.18	0.17	15	0.04	0.014
073588	Soil	0.50	79.61	21.51	83.0	136	43.7	11.2	371	3.23	24.2	3.5	2.0	5.8	29.3	0.27	0.48	0.33	17	0.58	0.052
073589	Soil	0.46	9.57	13.71	44.0	42	21.0	8.1	220	3.07	23.0	0.5	3.2	8.1	4.3	0.03	0.23	0.21	18	0.01	0.028
073590	Soil	0.35	24.29	16.40	73.1	70	30.1	10.9	494	3.26	42.5	0.9	21.6	5.9	16.2	0.19	0.40	0.29	12	0.36	0.039
073591	Soil	0.33	25.62	21.96	60.0	134	27.1	9.3	243	3.02	45.0	2.0	18.0	4.6	29.6	0.14	0.29	0.28	14	0.58	0.057
073592	Soil	0.10	25.38	15.74	56.0	93	29.2	11.3	656	2.79	23.1	2.2	3.2	5.0	64.7	0.13	0.26	0.24	14	0.94	0.044
073593	Soil	0.20	13.84	9.66	42.0	90	22.5	7.0	224	2.16	22.0	0.5	2.5	5.1	9.4	0.05	0.28	0.17	13	0.10	0.036
073594	Soil	0.19	14.21	9.96	44.4	69	22.6	7.1	229	2.26	24.5	0.4	5.5	5.4	8.9	0.02	0.29	0.20	14	0.09	0.033
073595	Soil	0.39	34.32	17.61	53.8	101	29.5	9.6	528	3.08	29.7	2.5	3.4	5.8	28.7	0.32	0.29	0.31	18	0.26	0.056
073596	Soil	0.28	21.14	14.51	40.3	78	21.0	6.9	178	2.58	23.6	1.4	5.7	6.4	10.8	0.04	0.28	0.23	14	0.09	0.033
073597	Soil	0.31	25.77	16.64	59.1	125	27.6	11.0	694	2.99	28.1	1.5	0.9	4.8	33.2	0.16	0.43	0.26	17	0.37	0.054
073598	Soil	0.32	6.03	4.65	15.9	15	4.8	2.1	50	0.91	7.1	0.2	0.3	2.8	18.5	0.13	0.23	0.15	16	0.20	0.015
073599	Soil	0.29	21.97	13.82	94.5	54	24.1	8.9	602	2.37	11.8	1.1	0.9	1.2	85.3	0.66	0.58	0.23	15	1.15	0.040
073600	Soil	0.30	10.77	12.11	49.2	30	17.3	5.4	131	3.66	11.4	0.3	0.3	5.3	8.1	0.06	0.28	0.26	17	0.05	0.023



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WHI16000272.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		MDL	MDL		MDL																	
073571	Soil	25.4	18.0	0.42	20.4	0.004	<1	1.31	0.004	0.03	<0.1	1.0	0.04	<0.02	26	0.3	0.06	4.8	0.76	<0.1	0.03	
073572	Soil	31.0	22.3	0.58	34.7	0.002	<1	1.78	0.006	0.03	<0.1	1.6	0.04	<0.02	23	0.3	0.09	5.6	0.83	<0.1	0.04	
073573	Soil	19.6	22.8	0.60	20.1	0.006	3	1.71	0.008	0.03	<0.1	1.2	0.03	<0.02	22	0.3	0.06	4.9	0.66	<0.1	0.06	
073574	Soil	0.5	1.4	0.01	9.1	0.005	<1	0.18	0.023	0.02	<0.1	0.1	<0.02	<0.02	16	0.2	<0.02	1.3	0.06	<0.1	<0.02	
073575	Soil	17.2	19.1	0.41	74.9	0.008	2	1.62	0.010	0.10	0.1	2.0	0.10	0.12	106	2.0	0.04	3.8	5.03	<0.1	0.08	
073576	Soil	16.8	21.7	0.58	40.3	0.007	11	1.58	0.006	0.05	0.2	1.9	0.05	0.05	31	0.8	0.04	4.3	2.44	<0.1	0.06	
073577	Soil	20.4	18.2	0.37	38.7	0.009	<1	1.90	0.005	0.05	0.5	1.9	0.07	<0.02	16	0.2	0.03	4.0	0.84	<0.1	0.08	
073578	Soil	25.8	15.4	0.42	23.8	0.011	<1	1.14	0.005	0.05	0.2	1.4	0.06	<0.02	<5	0.2	0.03	3.2	0.67	<0.1	<0.02	
073579	Soil	17.4	16.2	0.54	34.4	0.028	<1	1.37	0.009	0.05	0.2	1.7	0.05	<0.02	9	0.2	0.03	5.1	1.50	<0.1	<0.02	
073580	Soil	25.1	18.0	0.41	38.4	0.008	<1	1.42	0.003	0.05	0.2	1.5	0.07	<0.02	20	<0.1	0.03	4.6	1.02	<0.1	<0.02	
073581	Soil	23.9	13.4	0.14	20.7	0.009	<1	0.77	0.003	0.03	0.3	0.9	0.05	<0.02	22	<0.1	0.06	6.2	0.81	<0.1	<0.02	
073582	Soil	22.1	10.8	0.19	40.0	0.009	1	0.76	0.007	0.03	0.2	0.8	0.04	<0.02	14	0.1	0.04	4.5	0.57	<0.1	<0.02	
073583	Soil	21.1	11.6	0.16	27.7	0.020	<1	0.84	0.007	0.03	0.2	1.0	0.06	<0.02	11	0.3	0.05	5.1	0.87	<0.1	<0.02	
073584	Soil	22.1	14.3	0.28	34.1	0.011	<1	1.16	0.006	0.05	0.3	1.3	0.06	<0.02	19	0.2	0.04	4.0	0.91	<0.1	<0.02	
073585	Soil	24.8	16.3	0.37	33.5	0.015	<1	1.20	0.005	0.05	0.2	1.3	0.07	<0.02	13	<0.1	0.02	4.3	0.77	<0.1	0.02	
073586	Soil	24.9	15.9	0.40	33.0	0.007	<1	1.17	0.003	0.05	0.2	1.2	0.05	<0.02	11	<0.1	0.04	4.3	0.99	<0.1	<0.02	
073587	Soil	22.7	14.3	0.34	44.8	0.008	<1	1.23	0.007	0.04	0.2	1.3	0.06	<0.02	23	<0.1	0.02	4.2	0.80	<0.1	0.03	
073588	Soil	22.3	25.9	0.62	125.4	0.015	2	2.15	0.009	0.07	0.2	3.5	0.07	0.03	23	1.0	<0.02	3.6	9.61	<0.1	0.06	
073589	Soil	29.4	28.1	0.51	60.2	0.009	<1	2.09	0.005	0.07	0.2	2.1	0.07	<0.02	24	0.2	0.03	4.7	1.16	<0.1	0.06	
073590	Soil	21.0	21.8	0.63	21.2	0.002	<1	1.43	0.004	0.04	0.4	1.6	0.03	0.03	26	0.3	0.05	4.1	0.70	<0.1	0.05	
073591	Soil	15.3	25.8	0.56	59.7	0.005	<1	1.56	0.008	0.07	0.2	2.2	0.06	0.07	19	0.6	0.05	3.8	1.91	<0.1	0.06	
073592	Soil	17.7	26.2	0.63	75.6	0.007	<1	1.71	0.008	0.08	0.1	2.5	0.07	0.04	25	0.3	0.04	4.5	1.32	<0.1	0.06	
073593	Soil	21.4	22.5	0.50	40.8	0.007	<1	1.21	0.006	0.06	0.2	1.8	0.06	<0.02	22	0.2	0.03	4.0	0.88	<0.1	<0.02	
073594	Soil	21.9	24.2	0.52	43.7	0.007	<1	1.30	0.007	0.07	0.2	1.7	0.06	<0.02	13	0.3	0.05	4.1	0.98	<0.1	<0.02	
073595	Soil	23.3	27.0	0.55	79.2	0.006	<1	1.72	0.007	0.09	0.2	2.7	0.06	0.02	22	0.2	0.03	4.9	1.08	<0.1	0.05	
073596	Soil	22.5	24.1	0.44	54.1	0.005	<1	1.37	0.006	0.08	0.2	2.4	0.06	<0.02	16	0.3	0.04	4.4	0.90	<0.1	0.03	
073597	Soil	19.0	24.9	0.54	83.3	0.008	<1	1.69	0.008	0.08	0.2	2.5	0.07	0.03	27	0.2	0.04	4.5	1.42	<0.1	0.02	
073598	Soil	15.5	5.2	0.04	17.2	0.013	<1	0.34	0.011	0.03	0.2	0.5	0.02	<0.02	8	0.1	0.03	2.3	0.27	<0.1	<0.02	
073599	Soil	10.9	16.4	0.26	59.3	0.013	<1	1.25	0.021	0.05	0.1	2.1	0.07	0.05	20	0.7	0.03	3.2	0.89	<0.1	<0.02	
073600	Soil	20.8	19.1	0.41	34.9	0.006	<1	1.36	0.005	0.03	0.1	1.1	0.04	<0.02	14	0.2	0.04	4.5	0.94	<0.1	<0.02	



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

**Project:** None Given  
**Report Date:** September 23, 2016

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**Part:** 3 of 3

# CERTIFICATE OF ANALYSIS

WHI16000272.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
073571	Soil	0.29	5.3	0.7	<0.05	0.9	1.50	50.4	<0.02	<1	<0.1	30.2	<10	<2
073572	Soil	0.20	4.7	0.4	<0.05	1.8	2.81	57.1	<0.02	<1	0.2	44.8	<10	<2
073573	Soil	0.27	3.6	0.4	<0.05	0.6	1.26	35.2	<0.02	<1	0.2	43.9	<10	<2
073574	Soil	0.02	0.7	0.2	<0.05	0.2	0.22	1.0	<0.02	<1	<0.1	<0.1	<10	<2
073575	Soil	1.03	10.3	0.7	<0.05	2.7	16.14	25.4	<0.02	<1	0.9	34.8	11	<2
073576	Soil	0.64	7.1	0.5	<0.05	1.8	5.07	31.0	0.02	<1	0.2	48.8	<10	<2
073577	Soil	0.98	6.4	0.5	<0.05	3.7	2.41	40.2	<0.02	<1	0.4	33.2	<10	<2
073578	Soil	0.52	6.2	0.4	<0.05	1.8	3.43	50.9	<0.02	<1	0.2	29.7	<10	<2
073579	Soil	1.32	10.6	0.7	<0.05	1.2	1.95	33.5	0.03	<1	<0.1	54.1	<10	<2
073580	Soil	0.88	11.8	0.5	<0.05	0.8	1.81	48.5	<0.02	<1	0.2	32.8	<10	<2
073581	Soil	0.92	4.6	1.5	<0.05	0.3	1.50	45.5	<0.02	<1	0.1	10.8	<10	<2
073582	Soil	0.59	3.9	0.6	<0.05	0.2	1.33	41.4	<0.02	<1	0.1	13.1	<10	<2
073583	Soil	0.86	6.1	1.0	<0.05	0.5	1.61	40.2	<0.02	<1	<0.1	13.2	<10	<2
073584	Soil	0.88	8.4	0.5	<0.05	0.8	1.76	43.7	0.02	<1	0.4	21.5	<10	<2
073585	Soil	0.89	6.9	0.6	<0.05	1.4	1.91	48.3	<0.02	<1	<0.1	26.3	<10	<2
073586	Soil	0.54	8.7	0.4	<0.05	0.2	1.49	46.6	<0.02	<1	0.2	27.2	<10	<2
073587	Soil	0.71	6.9	0.5	<0.05	1.3	1.79	44.7	<0.02	<1	0.2	25.2	<10	<2
073588	Soil	1.14	10.0	0.7	<0.05	1.8	11.20	44.8	<0.02	<1	1.1	57.3	<10	<2
073589	Soil	0.81	10.9	0.7	<0.05	3.3	2.27	56.7	0.03	<1	0.3	42.1	<10	<2
073590	Soil	0.24	3.9	0.1	<0.05	1.7	3.15	39.0	<0.02	<1	0.2	41.8	<10	<2
073591	Soil	0.63	7.3	0.5	<0.05	2.3	4.81	29.6	<0.02	<1	0.5	46.4	<10	<2
073592	Soil	0.75	9.2	0.3	<0.05	2.1	5.81	34.2	0.03	<1	0.7	45.8	<10	<2
073593	Soil	0.63	8.9	0.2	<0.05	0.7	2.68	42.1	<0.02	<1	0.1	32.6	<10	<2
073594	Soil	0.66	9.7	0.3	<0.05	0.8	2.60	42.6	<0.02	<1	0.3	33.1	<10	<2
073595	Soil	0.89	10.1	0.3	<0.05	1.4	6.00	44.5	0.02	<1	0.5	38.5	<10	<2
073596	Soil	0.84	8.2	0.3	<0.05	1.2	3.69	43.4	<0.02	<1	0.5	28.3	<10	<2
073597	Soil	1.00	12.0	0.5	<0.05	1.2	4.97	37.0	<0.02	<1	0.2	43.1	<10	<2
073598	Soil	0.71	2.7	0.7	<0.05	0.6	1.03	29.6	<0.02	<1	<0.1	2.4	<10	<2
073599	Soil	0.92	6.0	0.4	<0.05	1.0	4.39	23.1	<0.02	<1	0.4	30.3	<10	<2
073600	Soil	0.71	4.0	0.3	<0.05	1.2	1.58	37.5	<0.02	<1	0.1	45.3	<10	<2



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000272.1

Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
073551	Soil	0.51	23.67	42.14	78.6	105	18.3	11.3	846	2.43	60.7	0.9	3.8	4.1	8.8	0.14	0.47	0.27	11	0.23	0.084
073552	Soil	0.55	42.04	39.44	82.6	106	33.8	17.4	819	3.85	71.6	2.1	9.8	7.3	8.9	0.09	0.98	0.47	11	0.18	0.068
073553	Soil	0.39	19.61	18.72	39.8	108	14.1	9.2	378	1.69	43.6	0.9	7.7	0.9	7.6	0.06	0.60	0.23	9	0.07	0.057
073554	Soil	0.54	27.19	35.09	75.9	90	32.0	15.4	1069	3.45	155.9	2.1	9.7	3.4	5.4	0.11	0.50	0.24	13	0.05	0.053
073555	Soil	0.48	35.44	30.68	107.1	74	38.4	17.2	711	4.22	114.8	2.9	11.6	8.0	6.7	0.13	0.53	0.37	17	0.11	0.079
073556	Soil	0.74	43.88	98.76	117.2	285	42.7	24.5	1912	6.13	21.4	1.5	3.7	10.0	4.1	0.15	0.86	0.78	20	0.12	0.101
073557	Soil	1.19	94.83	104.07	163.4	368	61.2	55.7	2619	5.83	429.5	4.2	68.4	18.5	9.0	0.34	2.08	0.73	15	0.10	0.061
073558	Soil	0.63	45.56	76.07	101.9	237	39.3	26.1	1198	3.84	415.7	3.0	41.7	13.3	8.8	0.18	1.19	0.50	12	0.16	0.065
073559	Soil	0.60	58.65	59.65	106.6	208	40.8	28.1	1242	4.27	359.9	2.8	14.9	15.6	9.9	0.18	0.97	0.51	9	0.23	0.059
073560	Soil	0.73	17.46	43.73	50.5	163	13.9	6.1	131	2.49	259.4	0.9	77.9	0.6	18.0	0.02	0.93	0.28	15	<0.01	0.062
073510	Soil	0.33	47.25	32.47	79.1	111	42.7	21.4	633	3.97	26.1	1.7	3.7	18.3	16.5	0.03	1.18	0.44	9	0.27	0.064
073511	Soil	0.34	11.40	12.68	32.9	27	7.7	4.9	564	1.19	2.7	0.6	1.2	1.5	13.6	0.10	0.23	0.16	10	0.25	0.048
073512	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.
073513	Soil	0.43	66.95	50.26	85.4	160	46.9	29.4	853	4.12	17.9	3.4	3.4	15.4	28.5	0.05	0.91	0.55	9	0.33	0.050
073514	Soil	0.56	53.67	59.45	104.9	159	45.9	26.8	1161	4.10	8.5	3.0	2.3	8.4	28.4	0.13	0.61	0.41	10	0.67	0.084
073515	Soil	0.62	22.58	45.02	56.1	87	18.6	12.3	1372	2.09	15.5	1.3	2.3	4.3	23.8	0.30	0.51	0.29	9	0.28	0.088
073516	Soil	0.51	43.50	23.92	54.8	62	47.3	20.9	572	3.84	19.5	1.3	2.6	11.8	15.9	0.07	0.80	0.23	18	0.28	0.067
073517	Soil	0.49	86.26	68.19	162.9	129	57.1	35.2	702	4.51	25.6	2.4	2.9	22.3	32.2	0.07	1.27	0.49	9	0.58	0.058
073518	Soil	0.33	31.23	41.21	45.1	88	30.3	20.4	560	2.05	5.6	1.0	2.7	17.0	59.3	0.01	1.02	0.19	5	2.43	0.030
073519	Soil	0.40	48.82	59.10	106.6	90	32.8	26.8	1013	4.65	8.7	1.7	2.3	11.5	4.4	0.05	0.81	0.66	11	0.02	0.052
073520	Soil	0.68	117.42	92.77	171.5	184	86.0	51.7	780	5.16	29.8	3.1	2.3	13.5	10.9	0.10	0.76	0.71	11	0.15	0.043
073521	Soil	0.31	24.56	34.92	57.0	74	28.7	17.9	829	2.10	8.6	0.9	1.3	11.4	11.2	0.03	0.85	0.21	3	0.23	0.040
073522	Soil	0.49	54.46	61.13	117.9	151	57.8	41.9	1180	3.71	10.9	1.7	2.5	14.1	15.1	0.08	1.05	0.38	7	0.29	0.066
073523	Soil	0.44	56.16	67.95	119.0	106	41.1	34.1	1059	4.02	8.7	1.8	1.9	17.2	13.5	0.07	1.06	0.45	11	0.24	0.049
073524	Soil	0.44	63.21	38.26	88.3	58	30.5	19.0	844	4.02	11.0	1.0	2.1	10.1	4.6	0.02	0.35	0.72	12	0.04	0.043
073525	Soil	0.41	47.84	46.67	98.7	46	37.4	23.1	1394	4.06	3.5	1.5	3.3	17.8	14.0	0.04	0.25	0.57	12	0.14	0.043
073526	Soil	1.03	673.69	59.07	93.2	284	46.4	48.4	2110	5.22	21.7	3.1	2.3	18.3	15.4	0.13	1.71	0.85	13	0.27	0.083
073527	Soil	0.34	42.63	36.29	81.1	56	30.4	25.0	1142	3.76	7.0	1.4	1.8	23.6	12.0	0.03	0.52	0.57	7	0.20	0.036
073528	Soil	0.78	104.52	199.32	58.7	220	24.0	44.2	1698	2.96	4.0	2.9	2.5	9.3	6.8	0.04	0.29	0.74	10	0.07	0.053
073529	Soil	0.48	64.68	64.77	92.1	174	30.9	52.4	1637	3.81	19.8	3.1	8.5	12.8	11.9	0.04	0.78	0.44	9	0.13	0.061



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000272.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
073551	Soil	18.4	14.7	0.27	31.0	0.003	<1	0.94	0.006	0.06	<0.1	1.5	0.04	0.06	49	0.1	0.10	2.6	2.35	<0.1	0.03
073552	Soil	14.9	17.4	0.48	24.1	0.001	<1	1.46	0.006	0.03	<0.1	2.0	0.03	0.02	21	0.3	0.12	3.7	1.58	<0.1	0.03
073553	Soil	5.7	7.6	0.14	36.2	0.006	<1	0.72	0.017	0.03	<0.1	0.8	0.04	0.05	26	0.4	0.05	2.6	1.59	<0.1	0.04
073554	Soil	16.7	15.3	0.30	33.1	0.005	<1	1.01	0.010	0.03	<0.1	1.4	0.04	0.03	37	0.1	0.03	2.9	1.47	<0.1	0.03
073555	Soil	17.0	26.8	0.72	37.3	0.006	<1	1.88	0.006	0.03	<0.1	2.6	0.03	0.02	19	0.2	0.06	5.3	1.82	<0.1	0.08
073556	Soil	26.9	42.9	0.97	25.3	0.002	<1	2.62	0.006	0.04	<0.1	3.5	0.06	0.04	58	0.5	0.12	7.2	3.92	<0.1	0.10
073557	Soil	15.7	24.7	0.63	47.1	0.002	<1	1.64	0.004	0.05	<0.1	4.6	0.10	<0.02	30	0.2	0.11	4.1	3.04	0.1	0.14
073558	Soil	20.1	14.5	0.32	30.0	0.003	<1	1.03	0.006	0.03	<0.1	2.3	0.04	<0.02	18	0.2	0.09	2.6	1.59	<0.1	0.09
073559	Soil	18.8	16.5	0.44	26.9	<0.001	<1	1.20	0.003	0.04	<0.1	2.6	0.04	<0.02	27	0.3	0.09	2.8	1.67	<0.1	0.08
073560	Soil	22.7	7.5	0.04	22.5	0.005	<1	0.49	0.009	0.03	0.2	0.4	0.07	0.03	34	0.3	0.04	3.1	1.88	<0.1	<0.02
073510	Soil	52.4	17.5	0.56	35.8	0.002	1	1.58	0.004	0.07	<0.1	2.4	0.04	<0.02	20	<0.1	0.05	3.4	1.31	<0.1	0.09
073511	Soil	9.9	6.8	0.15	40.3	0.010	<1	0.81	0.020	0.04	0.1	1.0	0.06	0.06	35	0.3	0.02	2.0	0.57	<0.1	<0.02
073512	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.
073513	Soil	25.4	16.3	0.52	58.5	0.002	<1	1.73	0.009	0.07	<0.1	2.3	0.06	0.03	43	0.4	0.04	3.6	1.84	<0.1	0.10
073514	Soil	35.0	18.8	0.56	48.4	0.003	1	1.53	0.006	0.06	<0.1	3.0	0.05	0.06	70	0.7	0.04	3.3	0.94	<0.1	0.11
073515	Soil	17.0	10.0	0.24	60.1	0.008	1	1.13	0.014	0.07	0.1	2.4	0.06	0.08	79	0.6	<0.02	2.2	1.36	<0.1	0.08
073516	Soil	23.3	45.0	0.91	24.0	0.002	1	1.64	0.004	0.05	<0.1	2.9	0.03	0.03	31	<0.1	0.02	3.6	0.86	<0.1	0.14
073517	Soil	41.6	22.4	0.62	35.6	0.002	<1	1.70	0.003	0.08	<0.1	2.0	0.05	0.02	<5	<0.1	0.02	4.4	3.60	<0.1	0.41
073518	Soil	25.4	10.3	0.32	32.8	<0.001	<1	0.97	0.004	0.07	<0.1	1.9	0.05	<0.02	36	<0.1	<0.02	2.3	3.27	<0.1	0.17
073519	Soil	40.0	23.8	0.72	37.4	0.002	<1	1.97	0.003	0.04	<0.1	1.7	0.03	0.02	34	<0.1	0.04	5.1	2.12	<0.1	0.16
073520	Soil	35.8	20.1	0.62	48.7	0.002	<1	1.72	0.004	0.06	<0.1	2.6	0.06	0.02	19	0.1	0.03	4.1	2.32	<0.1	0.13
073521	Soil	23.1	5.8	0.21	41.2	0.002	<1	0.75	0.003	0.05	<0.1	1.3	0.04	0.02	12	0.1	0.02	1.3	1.81	<0.1	0.05
073522	Soil	34.5	15.2	0.45	35.9	0.001	1	1.18	0.002	0.06	<0.1	2.6	0.04	0.03	36	0.5	0.03	2.9	1.63	<0.1	0.13
073523	Soil	52.6	21.5	0.63	25.2	0.003	<1	1.66	0.004	0.06	<0.1	2.8	0.03	<0.02	20	0.1	0.03	3.7	1.18	<0.1	0.14
073524	Soil	35.0	25.4	0.74	34.2	0.001	<1	1.98	0.003	0.04	<0.1	1.6	0.03	0.02	27	<0.1	0.07	5.1	1.94	<0.1	0.08
073525	Soil	37.2	25.8	0.86	90.0	0.002	<1	1.98	0.005	0.05	<0.1	2.4	0.03	<0.02	12	<0.1	0.05	5.3	2.57	<0.1	0.17
073526	Soil	30.3	23.4	0.82	33.0	0.003	2	1.93	0.007	0.05	<0.1	5.6	0.04	0.04	43	0.2	0.04	5.0	1.82	<0.1	0.17
073527	Soil	28.1	18.4	0.64	45.6	0.004	<1	1.66	0.003	0.05	<0.1	1.9	0.02	<0.02	5	<0.1	0.03	4.1	1.62	<0.1	0.41
073528	Soil	25.7	15.5	0.48	50.3	0.004	<1	1.47	0.012	0.03	<0.1	1.5	0.04	0.03	64	0.3	0.04	3.8	2.25	<0.1	0.14
073529	Soil	27.9	16.7	0.49	31.4	0.003	2	1.55	0.007	0.05	<0.1	2.2	0.05	0.03	60	0.1	0.03	3.8	1.75	<0.1	0.04



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000272.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
073551	Soil	0.14	6.3	1.4	<0.05	2.8	2.80	38.6	<0.02	<1	0.3	19.2	<10	<2
073552	Soil	0.06	3.0	1.9	<0.05	1.8	6.10	29.0	<0.02	<1	0.7	32.6	<10	<2
073553	Soil	0.22	3.1	0.4	<0.05	1.3	2.45	11.2	<0.02	<1	0.2	8.7	<10	<2
073554	Soil	0.10	3.0	1.2	<0.05	1.1	4.72	34.5	0.03	<1	0.3	21.2	<10	<2
073555	Soil	0.21	4.1	0.5	<0.05	3.0	6.97	33.1	<0.02	<1	0.2	49.4	<10	<2
073556	Soil	0.10	4.7	0.9	<0.05	3.9	3.41	44.7	0.07	<1	0.2	71.4	<10	<2
073557	Soil	0.07	3.1	1.1	<0.05	10.1	8.90	30.6	0.06	<1	1.2	43.8	<10	<2
073558	Soil	0.06	2.3	1.1	<0.05	5.1	7.16	40.0	0.02	<1	0.4	23.1	<10	<2
073559	Soil	0.02	2.2	1.4	<0.05	5.5	9.39	38.9	0.03	<1	0.2	31.6	<10	<2
073560	Soil	0.15	6.5	0.7	<0.05	0.5	1.61	45.3	<0.02	<1	0.3	3.2	<10	<2
073510	Soil	0.08	4.0	0.8	<0.05	4.8	12.98	103.4	0.02	<1	0.5	33.5	<10	<2
073511	Soil	0.24	5.4	0.2	<0.05	0.6	4.76	21.3	<0.02	<1	0.1	7.5	<10	<2
073512	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.
073513	Soil	0.16	4.7	0.2	<0.05	5.7	13.28	49.9	0.03	<1	0.9	35.2	<10	<2
073514	Soil	0.27	5.7	1.3	<0.05	3.7	24.29	69.8	0.04	<1	1.1	31.2	<10	<2
073515	Soil	0.24	7.7	1.5	<0.05	2.2	41.26	38.5	0.03	<1	0.5	14.1	<10	<2
073516	Soil	0.08	2.9	1.2	<0.05	4.9	11.62	48.2	0.02	<1	0.6	44.6	<10	<2
073517	Soil	0.05	4.3	0.9	<0.05	26.7	12.51	79.2	0.03	<1	0.8	35.1	<10	4
073518	Soil	<0.02	4.5	1.1	<0.05	12.9	10.19	53.3	<0.02	<1	0.9	17.5	<10	<2
073519	Soil	0.09	4.1	0.8	<0.05	4.6	5.50	73.4	0.03	<1	0.8	56.5	<10	<2
073520	Soil	0.07	5.4	0.2	<0.05	4.1	14.70	73.8	0.03	<1	0.9	37.6	<10	<2
073521	Soil	0.04	3.5	0.3	<0.05	3.6	8.83	47.1	<0.02	<1	0.7	10.2	<10	<2
073522	Soil	0.06	4.0	0.8	<0.05	5.4	15.96	69.7	0.02	<1	0.6	26.0	<10	<2
073523	Soil	0.25	2.8	0.8	<0.05	8.0	12.20	100.5	0.02	<1	1.0	40.6	<10	<2
073524	Soil	0.04	3.3	0.5	<0.05	3.8	4.44	67.2	<0.02	<1	0.7	56.9	<10	<2
073525	Soil	0.13	2.9	0.2	<0.05	12.6	8.08	72.7	<0.02	<1	0.6	60.8	<10	<2
073526	Soil	0.05	3.3	0.9	<0.05	7.3	21.49	62.5	0.08	<1	1.3	59.9	<10	<2
073527	Soil	<0.02	3.0	0.8	<0.05	20.1	7.28	53.6	<0.02	<1	0.5	46.6	<10	<2
073528	Soil	0.11	2.6	0.6	<0.05	4.5	8.43	52.6	<0.02	<1	1.4	39.1	<10	<2
073529	Soil	0.07	3.2	1.5	<0.05	5.0	12.59	55.8	0.03	<1	0.8	42.3	<10	<2



# CERTIFICATE OF ANALYSIS

WHI16000272.1

Method Analyte	Unit	MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
			Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
			ppm	ppm	ppm	ppm	ppb	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
			0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
073530	Soil		0.42	31.58	29.89	96.6	40	32.7	19.3	1915	4.15	1.4	1.8	2.5	14.1	7.6	0.03	0.53	0.56	12	0.09	0.050
073961	Soil		0.29	38.30	28.86	58.2	101	23.9	30.8	491	2.77	6.5	2.8	1.5	6.8	7.8	0.04	0.83	0.40	12	0.09	0.066
073962	Soil		0.40	51.50	41.83	69.4	66	29.5	39.8	914	3.80	10.6	3.0	1.9	10.2	8.6	0.05	0.94	0.50	11	0.10	0.070
073963	Soil		0.50	38.03	51.20	88.5	113	33.6	37.9	1199	3.96	6.4	2.2	1.3	10.5	7.5	0.06	0.72	0.48	11	0.08	0.063
073964	Soil		0.43	34.00	26.54	89.2	73	27.2	18.1	439	3.74	6.2	1.7	1.4	8.1	8.2	0.19	0.50	0.40	12	0.07	0.063
073965	Soil		0.57	28.83	27.29	82.2	84	25.9	14.6	598	3.86	7.3	1.7	1.2	6.4	6.7	0.11	0.55	0.43	15	0.02	0.064
073966	Soil		0.44	27.93	30.42	88.8	29	27.2	18.0	857	3.93	7.3	1.5	0.6	7.4	6.2	0.10	0.64	0.43	13	0.04	0.065
073967	Soil		0.37	29.44	35.19	67.7	39	23.3	15.3	702	2.89	3.3	1.0	1.1	4.6	7.2	0.06	0.37	0.36	11	0.06	0.054
073968	Soil		0.40	46.84	50.55	105.0	42	35.4	23.3	897	4.52	6.0	2.3	1.2	8.7	6.4	0.05	0.63	0.52	13	0.05	0.050
073969	Soil		0.65	46.97	137.91	98.8	43	33.3	29.5	1756	4.09	2.1	1.8	1.2	11.4	8.5	0.03	0.46	0.49	12	0.05	0.048
073970	Soil		0.52	25.53	17.15	46.1	75	12.0	7.0	427	3.74	2.7	1.0	0.6	7.6	3.2	0.05	0.35	0.47	19	0.01	0.068
073771	Soil		0.60	48.28	76.18	93.3	53	41.4	51.6	1199	3.69	12.8	0.8	1.0	10.2	11.5	0.07	0.85	0.38	16	0.10	0.071
073772	Soil		0.46	22.46	20.95	45.4	194	15.5	7.2	295	2.11	7.5	0.9	2.7	3.4	5.5	0.06	0.58	0.33	13	0.01	0.066
073773	Soil		0.62	34.21	29.87	95.4	104	39.3	12.1	439	5.23	8.9	1.1	0.7	10.8	8.8	0.06	0.51	0.59	17	0.03	0.055
073774	Soil		0.58	23.28	25.72	73.0	98	28.3	8.7	272	4.40	8.8	0.8	0.9	7.0	8.2	0.04	0.50	0.48	17	0.03	0.053
073775	Soil		0.51	12.97	17.29	47.3	84	17.1	6.6	411	4.41	25.6	0.7	1.2	7.5	4.3	0.06	0.56	0.55	25	<0.01	0.063
073776	Soil		0.67	23.51	19.91	69.0	91	25.2	9.1	306	5.45	25.4	0.7	0.3	9.0	8.7	0.02	0.86	0.63	24	0.09	0.066
073777	Soil		0.76	23.05	33.85	81.7	282	29.8	11.7	648	6.15	32.4	1.0	0.7	7.6	5.5	0.11	0.79	0.64	25	0.02	0.065
073778	Soil		1.00	15.96	19.00	56.7	47	19.5	8.5	293	4.60	18.9	0.7	<0.2	7.3	5.5	0.04	0.85	0.58	28	0.02	0.045
073779	Soil		0.70	19.08	21.02	106.0	218	25.0	10.1	322	4.73	16.6	0.8	0.3	10.0	4.2	0.19	0.68	0.54	23	0.01	0.041
073780	Soil		0.09	2.23	1.76	4.7	80	1.5	0.9	24	0.29	0.6	0.2	<0.2	<0.1	6.2	0.04	0.03	0.04	6	0.04	0.021
073781	Soil		0.48	24.32	15.34	60.7	57	23.4	9.9	343	2.96	13.2	1.0	1.2	9.0	17.5	0.07	0.50	0.72	17	0.23	0.047
073782	Soil		0.38	23.03	18.33	69.7	68	24.9	10.5	413	3.10	11.5	1.7	0.4	10.8	26.5	0.08	0.51	0.71	16	0.37	0.050
073783	Soil		0.50	28.21	20.62	66.6	101	27.8	11.0	525	3.08	9.2	3.6	0.8	9.5	79.5	0.08	0.51	0.79	13	0.98	0.052
073784	Soil		0.53	27.19	26.89	80.6	92	27.9	12.5	592	3.41	13.5	5.0	2.0	9.0	80.9	0.12	0.66	0.64	13	0.73	0.052
073785	Soil		1.80	36.39	27.39	85.7	78	44.5	14.1	6267	3.58	14.5	3.6	1.8	10.6	48.2	0.19	0.86	0.49	10	0.35	0.050
073786	Soil		0.43	22.57	18.03	91.6	34	31.9	14.2	539	4.03	13.2	1.3	3.8	13.6	11.4	0.04	0.34	0.59	17	0.09	0.035
073787	Soil		0.33	22.31	27.51	83.5	16	30.7	15.3	600	4.00	12.4	1.1	<0.2	11.9	6.8	0.09	0.85	0.55	12	0.05	0.044
073788	Soil		0.32	24.14	32.38	98.1	49	34.1	19.3	663	4.22	9.1	1.2	0.6	13.1	4.8	0.05	0.71	0.52	12	0.03	0.034
073789	Soil		0.53	31.23	37.99	91.7	79	35.1	19.2	627	4.54	10.9	1.3	0.4	12.0	4.1	0.09	1.36	0.61	12	0.02	0.046



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**Project:** None Given  
**Report Date:** September 23, 2016

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
Unit	MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
073530	Soil	34.5	22.9	0.73	92.5	0.002	<1	1.79	0.006	0.04	<0.1	2.1	0.03	0.02	71	<0.1	0.05	4.5	3.41	<0.1	0.09
073961	Soil	16.7	14.9	0.45	20.2	0.007	<1	1.29	0.010	0.04	<0.1	1.3	0.03	0.02	24	0.3	0.04	3.5	0.98	<0.1	0.05
073962	Soil	15.9	19.0	0.58	17.7	0.002	<1	1.62	0.005	0.03	<0.1	2.0	0.05	0.03	43	0.2	0.02	3.9	1.22	<0.1	0.09
073963	Soil	14.9	20.6	0.62	25.5	0.002	<1	1.65	0.003	0.05	<0.1	1.3	0.05	0.03	49	<0.1	0.03	4.3	1.33	<0.1	0.07
073964	Soil	14.9	19.1	0.58	32.4	0.005	<1	1.56	0.005	0.04	<0.1	1.1	0.05	0.02	20	0.2	0.03	4.2	0.78	<0.1	0.05
073965	Soil	15.7	20.8	0.56	29.7	0.006	<1	1.77	0.004	0.04	<0.1	1.0	0.05	0.02	21	0.2	0.03	4.7	0.95	<0.1	0.05
073966	Soil	15.7	19.8	0.58	33.2	0.004	<1	1.82	0.004	0.04	<0.1	1.2	0.05	0.02	20	0.3	0.03	4.4	0.90	<0.1	0.12
073967	Soil	21.0	15.3	0.49	36.2	0.006	<1	1.42	0.009	0.03	<0.1	0.9	0.03	0.02	13	0.3	0.04	3.7	0.74	<0.1	0.07
073968	Soil	29.2	24.5	0.79	60.3	0.003	<1	2.20	0.003	0.04	<0.1	1.7	0.04	<0.02	15	0.3	<0.02	5.6	1.84	<0.1	0.10
073969	Soil	36.8	23.9	0.75	108.6	0.003	<1	1.88	0.005	0.04	<0.1	1.6	0.04	0.02	19	0.1	0.02	4.7	1.73	<0.1	0.06
073970	Soil	21.8	17.0	0.23	21.9	0.004	<1	1.13	0.004	0.03	0.1	1.3	0.04	<0.02	40	0.4	0.05	6.1	2.34	<0.1	0.03
073771	Soil	14.4	28.1	0.78	34.6	0.002	<1	2.01	0.006	0.04	<0.1	1.5	0.05	<0.02	20	0.3	0.04	5.1	0.95	<0.1	0.16
073772	Soil	14.4	13.9	0.31	29.4	0.003	<1	1.15	0.005	0.03	<0.1	0.7	0.05	<0.02	17	0.2	0.05	4.6	1.01	<0.1	0.07
073773	Soil	13.9	30.0	0.83	29.1	0.004	<1	2.22	0.003	0.03	<0.1	1.3	0.04	<0.02	22	0.4	0.04	7.0	0.85	<0.1	0.06
073774	Soil	17.3	23.8	0.63	29.9	0.005	<1	1.91	0.003	0.03	<0.1	1.3	0.04	<0.02	<5	0.5	0.09	6.3	0.72	<0.1	0.04
073775	Soil	23.9	21.8	0.40	32.1	0.005	<1	1.57	0.007	0.03	0.1	1.3	0.05	<0.02	11	0.1	0.04	7.3	0.99	<0.1	0.04
073776	Soil	18.3	23.8	0.51	23.1	0.006	<1	1.58	0.004	0.03	<0.1	1.2	0.04	<0.02	16	0.3	0.09	7.8	0.57	<0.1	0.02
073777	Soil	23.2	31.0	0.62	32.8	0.008	<1	2.11	0.005	0.04	0.1	1.7	0.05	0.02	31	0.2	0.10	7.4	1.32	<0.1	0.02
073778	Soil	22.8	25.4	0.48	35.1	0.010	<1	1.63	0.005	0.04	0.2	1.5	0.08	<0.02	15	0.4	0.04	6.6	1.02	<0.1	<0.02
073779	Soil	22.9	24.4	0.55	37.1	0.007	<1	1.93	0.004	0.04	<0.1	1.6	0.05	<0.02	21	<0.1	0.08	7.3	1.06	<0.1	0.04
073780	Soil	1.8	1.6	0.02	16.6	0.005	<1	0.23	0.029	0.02	<0.1	0.1	<0.02	<0.02	10	0.1	<0.02	0.8	0.11	<0.1	<0.02
073781	Soil	22.3	20.2	0.60	57.7	0.007	1	1.59	0.010	0.08	1.0	2.2	0.11	<0.02	23	<0.1	0.06	4.8	1.69	<0.1	0.04
073782	Soil	25.7	19.3	0.59	69.8	0.008	<1	1.67	0.007	0.11	0.8	2.6	0.09	<0.02	15	<0.1	<0.02	5.0	1.51	<0.1	0.09
073783	Soil	19.2	20.3	0.55	68.6	0.004	<1	1.65	0.006	0.10	0.5	2.3	0.08	0.05	39	0.5	0.03	4.4	1.10	<0.1	0.08
073784	Soil	18.4	21.2	0.58	60.8	0.005	<1	1.73	0.007	0.09	0.2	2.2	0.06	0.04	19	0.5	0.06	4.8	0.98	<0.1	0.05
073785	Soil	19.5	22.3	0.62	103.9	0.002	<1	1.60	0.004	0.05	<0.1	2.2	0.04	0.02	14	0.3	0.05	4.7	0.51	<0.1	0.10
073786	Soil	41.5	28.4	0.78	49.8	0.008	1	2.04	0.009	0.08	0.2	2.1	0.05	<0.02	11	<0.1	<0.02	5.8	1.45	<0.1	0.04
073787	Soil	30.5	23.1	0.65	36.9	0.004	1	1.86	0.003	0.05	<0.1	1.4	0.03	<0.02	<5	<0.1	0.02	5.1	0.75	<0.1	0.08
073788	Soil	31.6	24.4	0.77	22.6	0.004	<1	1.92	0.002	0.03	<0.1	1.6	0.03	<0.02	14	0.3	0.03	5.3	0.97	<0.1	0.08
073789	Soil	33.8	23.8	0.67	37.6	0.004	<1	1.97	0.003	0.05	<0.1	1.8	0.04	<0.02	13	0.3	0.03	4.9	0.91	<0.1	0.05



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
073530	Soil	0.05	3.8	0.9	<0.05	2.1	8.81	70.1	<0.02	<1	1.6	59.5	<10	<2
073961	Soil	0.07	3.0	0.7	<0.05	2.6	8.15	31.4	<0.02	<1	0.8	30.3	<10	<2
073962	Soil	0.07	2.9	1.0	<0.05	2.8	11.68	32.5	0.03	<1	0.8	38.2	<10	<2
073963	Soil	0.08	3.7	1.1	<0.05	3.1	5.85	28.9	<0.02	<1	0.7	42.8	<10	<2
073964	Soil	0.15	3.1	0.5	<0.05	2.0	4.36	28.1	<0.02	<1	0.6	38.2	<10	<2
073965	Soil	0.18	4.8	0.4	<0.05	1.7	4.60	32.0	<0.02	<1	0.6	40.1	<10	<2
073966	Soil	0.13	5.2	0.7	<0.05	3.3	4.29	32.0	<0.02	<1	0.7	40.2	<10	<2
073967	Soil	0.14	2.9	0.7	<0.05	2.5	3.52	40.7	<0.02	<1	0.4	35.5	<10	<2
073968	Soil	0.07	3.9	0.4	<0.05	4.1	9.16	55.3	<0.02	<1	1.2	59.3	<10	<2
073969	Soil	0.06	3.2	1.0	<0.05	2.7	6.05	73.5	<0.02	<1	0.9	56.7	<10	<2
073970	Soil	0.41	5.1	0.9	<0.05	1.6	2.59	43.3	0.02	<1	0.3	17.5	<10	<2
073771	Soil	0.09	3.0	1.3	<0.05	4.9	2.77	26.8	<0.02	<1	0.4	71.0	<10	<2
073772	Soil	0.17	4.7	0.8	<0.05	1.8	1.60	26.8	<0.02	<1	0.4	24.9	<10	<2
073773	Soil	0.22	4.2	0.8	<0.05	2.3	1.98	26.9	<0.02	1	0.3	67.0	<10	<2
073774	Soil	0.45	4.2	0.6	<0.05	1.4	1.91	33.4	<0.02	<1	0.3	49.4	<10	<2
073775	Soil	0.51	6.5	1.0	<0.05	1.5	1.81	44.5	<0.02	<1	0.2	26.1	<10	<2
073776	Soil	0.46	3.2	1.3	<0.05	1.4	1.55	35.0	0.02	<1	0.2	41.7	<10	<2
073777	Soil	0.76	6.8	1.5	<0.05	1.3	2.88	42.8	<0.02	1	0.4	50.5	<10	<2
073778	Soil	0.80	8.2	1.1	<0.05	0.9	2.09	43.0	<0.02	3	0.1	36.1	<10	<2
073779	Soil	0.62	9.4	0.8	<0.05	1.7	2.43	44.0	0.03	<1	0.4	48.1	<10	<2
073780	Soil	0.03	1.1	0.1	<0.05	0.2	0.58	3.5	<0.02	<1	<0.1	1.3	<10	<2
073781	Soil	0.51	11.8	0.4	<0.05	1.3	5.89	42.8	0.04	<1	0.4	41.1	<10	<2
073782	Soil	0.73	11.0	0.5	<0.05	3.7	7.16	48.3	<0.02	<1	0.6	42.5	<10	<2
073783	Soil	0.55	9.8	0.6	<0.05	4.2	7.38	37.1	<0.02	<1	0.6	40.8	<10	<2
073784	Soil	0.39	8.8	0.7	<0.05	2.8	6.62	35.4	0.03	<1	0.4	49.4	<10	<2
073785	Soil	0.11	3.9	0.5	<0.05	2.4	6.57	39.2	0.03	<1	0.3	56.7	<10	<2
073786	Soil	0.15	7.1	0.5	<0.05	2.3	5.58	79.1	<0.02	2	0.4	59.9	<10	<2
073787	Soil	0.19	4.6	0.4	<0.05	3.0	3.78	58.1	0.02	<1	0.5	48.4	<10	<2
073788	Soil	0.09	3.0	0.4	<0.05	2.6	4.56	59.0	<0.02	<1	0.3	59.1	<10	<2
073789	Soil	0.16	5.1	0.4	<0.05	2.8	4.28	60.6	<0.02	2	0.6	53.7	<10	<2



# CERTIFICATE OF ANALYSIS

WHI16000272.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P		
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001		
073790	Soil	0.53	19.93	30.72	68.8	99	20.2	14.2	814	3.47	6.5	1.5	0.8	2.3	7.4	0.07	0.51	0.66	18	0.07	0.058	
073791	Soil	0.37	19.49	17.67	69.3	14	27.3	10.9	346	3.54	7.1	1.0	0.5	12.2	3.7	0.05	0.63	0.40	12	0.02	0.018	
073792	Soil	0.39	16.14	21.98	69.0	31	24.1	10.0	387	3.88	9.2	0.8	<0.2	10.3	5.5	0.09	0.60	0.49	15	0.03	0.036	
073793	Soil	0.63	11.54	15.37	47.1	37	15.7	6.2	234	3.56	7.4	0.7	0.8	6.7	5.9	0.04	0.44	0.50	20	0.02	0.036	
073794	Soil	0.41	22.66	25.05	64.4	24	24.8	10.8	383	3.71	11.6	0.8	<0.2	11.6	3.8	0.06	0.70	0.47	11	0.02	0.031	
073795	Soil	0.32	35.30	36.95	105.8	28	42.8	18.3	628	5.03	11.8	1.2	0.7	16.4	5.7	0.05	3.62	0.52	12	0.06	0.034	
073796	Soil	0.24	40.55	39.58	152.2	68	53.5	19.0	1608	7.94	10.5	1.2	<0.2	19.0	13.1	0.12	1.63	0.58	18	0.15	0.073	
073797	Soil	0.55	28.27	21.26	65.2	38	25.3	15.9	428	4.27	10.9	0.7	<0.2	6.9	2.9	0.06	0.76	0.71	18	<0.01	0.038	
073798	Soil	0.82	28.76	32.04	88.0	20	25.5	16.3	384	4.59	9.0	0.9	<0.2	11.7	4.1	0.08	0.95	0.58	18	0.01	0.046	
073799	Soil	0.64	10.05	17.55	40.6	30	12.5	6.9	246	3.11	9.1	0.6	<0.2	7.3	5.9	0.07	0.87	0.35	24	0.03	0.028	
073800	Soil	0.62	14.56	22.81	55.0	24	21.1	10.5	345	3.33	7.4	0.8	<0.2	6.3	5.6	0.09	0.75	0.41	15	0.04	0.039	
072981	Soil	1.11	28.38	39.07	42.2	200	34.7	12.0	335	3.16	7.0	1.6	<0.2	9.4	574.2	0.03	0.50	0.38	6	12.30	0.278	
072982	Soil	0.35	43.87	47.36	118.7	94	62.5	32.9	692	4.64	8.2	2.5	<0.2	15.7	26.9	0.05	0.35	0.56	11	0.21	0.027	
072983	Soil	0.29	53.99	48.15	107.1	70	48.3	26.0	848	4.92	6.4	1.3	<0.2	14.1	11.1	0.05	0.49	0.58	13	0.10	0.037	
072984	Soil	0.24	24.59	31.06	48.8	122	33.3	14.5	583	3.28	5.1	0.7	<0.2	10.2	203.9	0.05	0.33	0.41	7	5.34	0.054	
072985	Soil	0.29	65.54	64.75	120.8	283	49.3	38.0	1293	5.59	7.2	1.8	1.1	18.6	16.7	0.15	0.61	0.75	11	0.17	0.054	
072986	Soil	0.20	23.44	24.06	68.9	71	24.6	9.8	348	2.75	2.7	0.9	<0.2	8.0	32.8	0.06	0.32	0.33	9	0.45	0.051	
072987	Soil	0.38	40.68	43.09	93.7	121	39.9	20.1	1096	4.55	8.7	1.3	<0.2	14.0	24.1	0.11	0.59	0.67	11	0.24	0.064	
072988	Soil	0.29	31.43	28.61	72.5	87	33.8	16.2	713	3.91	6.8	1.0	2.3	7.8	30.9	0.10	0.43	0.46	12	0.43	0.070	
072989	Soil	0.46	34.24	40.43	95.5	130	41.5	24.3	750	4.17	12.5	1.1	2.5	13.1	33.0	0.10	0.52	0.43	9	0.70	0.053	
072990	Soil	0.46	33.16	34.63	95.6	93	39.0	18.5	591	4.26	17.7	1.0	2.0	12.1	23.1	0.05	0.56	0.43	10	0.39	0.052	
072991	Soil	0.48	43.57	55.67	115.8	231	49.0	26.7	959	4.41	16.5	1.4	2.5	17.2	32.2	0.08	0.84	0.51	7	0.46	0.060	
072992	Soil	0.33	29.93	29.56	76.0	30	39.1	16.1	520	4.12	7.9	1.0	0.9	13.1	7.0	0.08	0.44	0.40	12	0.06	0.043	
072993	Soil	0.24	11.62	11.44	37.6	41	12.4	3.9	168	1.79	7.0	0.6	3.8	2.1	8.0	0.06	0.61	0.27	11	0.06	0.061	
072994	Soil	0.32	31.77	26.41	63.3	74	31.5	13.4	653	3.64	9.3	0.8	1.8	7.7	14.2	0.02	1.10	0.41	9	0.22	0.065	
072995	Soil	0.29	34.84	29.08	82.5	45	37.2	16.7	640	3.93	10.4	0.9	2.2	12.2	8.6	0.04	0.72	0.41	10	0.09	0.048	
072996	Soil	0.36	25.00	24.92	72.9	36	27.8	10.8	252	3.88	10.4	0.8	2.3	11.3	4.3	0.06	0.60	0.37	13	0.02	0.035	
072997	Soil	0.43	19.75	21.21	50.6	71	17.1	9.8	450	3.09	6.7	0.6	0.6	6.1	8.4	0.06	0.51	0.36	14	0.14	0.042	
072998	Soil	0.46	19.90	17.76	50.4	65	18.5	7.5	230	3.29	8.0	0.6	0.8	5.4	3.0	0.02	0.60	0.37	15	0.01	0.040	
072999	Soil	0.40	26.00	31.92	72.3	52	26.4	12.9	674	4.56	8.2	0.7	1.7	9.3	4.6	0.05	0.64	0.38	16	0.04	0.047	



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000272.1

	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
073790	Soil	26.3	20.4	0.49	43.5	0.008	<1	1.62	0.003	0.05	<0.1	0.8	0.07	0.03	9	0.4	0.02	5.5	2.21	<0.1	<0.02	
073791	Soil	35.9	19.6	0.58	34.8	0.004	<1	1.65	0.002	0.04	<0.1	1.6	0.04	<0.02	10	0.3	<0.02	4.1	0.85	<0.1	<0.02	
073792	Soil	32.5	21.8	0.52	46.4	0.004	<1	1.78	0.004	0.07	<0.1	1.1	0.06	<0.02	11	0.2	0.04	5.6	0.94	<0.1	0.05	
073793	Soil	31.4	17.7	0.39	39.2	0.006	<1	1.44	0.003	0.05	<0.1	1.0	0.08	<0.02	12	0.4	0.06	6.1	1.05	0.1	0.02	
073794	Soil	27.2	19.8	0.47	44.2	0.002	<1	1.86	0.003	0.06	<0.1	1.4	0.05	<0.02	23	0.3	0.06	4.8	0.98	<0.1	0.07	
073795	Soil	28.0	24.4	0.72	36.2	0.002	<1	2.20	0.003	0.06	<0.1	2.6	0.04	<0.02	<5	0.2	0.04	5.5	0.97	<0.1	0.08	
073796	Soil	47.0	35.5	1.16	49.3	0.004	<1	3.45	0.005	0.09	<0.1	6.6	0.05	<0.02	13	0.1	0.04	8.1	0.85	<0.1	0.08	
073797	Soil	32.6	17.3	0.41	18.4	0.008	<1	1.31	0.005	0.03	<0.1	1.5	0.03	<0.02	8	0.4	0.12	6.4	0.94	<0.1	0.03	
073798	Soil	29.4	20.4	0.42	27.2	0.007	<1	1.52	0.004	0.04	0.1	1.4	0.05	<0.02	19	0.2	<0.02	5.8	2.69	<0.1	0.06	
073799	Soil	28.2	12.6	0.17	43.1	0.011	<1	1.09	0.005	0.04	0.1	1.3	0.05	<0.02	9	<0.1	<0.02	5.8	1.09	<0.1	0.03	
073800	Soil	19.9	14.9	0.36	38.8	0.005	<1	1.35	0.005	0.03	<0.1	1.2	0.05	<0.02	14	0.3	<0.02	5.0	1.28	<0.1	0.03	
072981	Soil	18.7	13.4	0.53	33.8	0.002	<1	1.15	0.004	0.05	<0.1	5.1	0.05	<0.02	45	0.5	0.06	2.8	0.41	<0.1	0.06	
072982	Soil	18.6	26.1	0.82	38.6	<0.001	<1	2.17	0.005	0.04	<0.1	2.4	0.05	0.02	41	<0.1	<0.02	5.3	1.80	<0.1	0.07	
072983	Soil	23.9	31.3	0.95	40.4	0.001	<1	2.45	0.003	0.04	<0.1	3.5	0.06	<0.02	34	0.3	<0.02	6.5	0.81	0.1	0.15	
072984	Soil	9.2	18.3	0.59	26.5	<0.001	<1	1.33	0.002	0.03	<0.1	3.6	0.03	0.04	26	0.5	<0.02	3.6	0.26	<0.1	0.18	
072985	Soil	22.6	25.6	0.75	21.9	0.001	<1	1.86	0.002	0.04	<0.1	4.0	0.05	0.03	65	0.3	<0.02	5.3	0.86	<0.1	0.14	
072986	Soil	12.5	15.8	0.48	37.5	0.004	<1	1.35	0.021	0.03	<0.1	3.1	0.03	0.03	29	0.4	<0.02	3.9	0.69	<0.1	0.11	
072987	Soil	21.4	24.7	0.80	31.3	0.002	<1	1.93	0.003	0.04	<0.1	4.4	0.04	<0.02	32	0.2	<0.02	5.3	0.60	<0.1	0.11	
072988	Soil	16.2	22.2	0.65	41.3	0.003	<1	1.66	0.003	0.03	<0.1	3.8	0.04	0.04	29	0.2	0.03	4.6	0.49	<0.1	0.09	
072989	Soil	17.9	22.4	0.58	28.9	0.001	<1	1.51	0.003	0.05	<0.1	4.8	0.04	<0.02	45	0.3	<0.02	3.8	0.66	<0.1	0.13	
072990	Soil	19.5	22.9	0.61	29.0	0.002	<1	1.59	0.003	0.04	<0.1	3.9	0.02	<0.02	19	<0.1	0.03	4.0	0.40	<0.1	0.14	
072991	Soil	14.3	13.8	0.30	35.9	<0.001	<1	1.06	0.004	0.05	<0.1	3.1	0.04	0.02	93	0.5	0.03	2.5	0.49	<0.1	0.17	
072992	Soil	25.0	23.7	0.71	37.0	0.001	<1	2.01	0.003	0.04	<0.1	2.8	0.02	<0.02	18	0.3	<0.02	4.2	0.41	<0.1	0.11	
072993	Soil	17.3	12.3	0.23	36.8	0.004	<1	0.97	0.006	0.03	<0.1	1.0	0.05	<0.02	8	0.1	0.02	3.4	1.00	<0.1	0.03	
072994	Soil	17.4	17.1	0.40	34.4	0.002	<1	1.48	0.007	0.03	<0.1	2.6	0.05	<0.02	19	0.4	<0.02	3.6	0.76	<0.1	0.06	
072995	Soil	25.3	21.7	0.56	32.6	0.003	<1	1.70	0.002	0.03	<0.1	2.9	0.03	<0.02	11	<0.1	0.03	4.2	0.50	<0.1	0.04	
072996	Soil	25.2	19.5	0.44	27.8	0.002	<1	1.65	0.003	0.03	<0.1	1.6	0.04	<0.02	9	<0.1	0.04	4.2	0.63	<0.1	0.03	
072997	Soil	19.7	14.2	0.23	33.4	0.002	<1	1.34	0.004	0.02	<0.1	1.8	0.06	<0.02	13	0.2	0.02	4.2	0.40	<0.1	0.06	
072998	Soil	20.9	15.7	0.29	22.9	0.003	<1	1.22	0.004	0.03	<0.1	1.3	0.05	<0.02	13	0.1	0.03	5.1	0.61	<0.1	0.02	
072999	Soil	21.5	21.0	0.45	30.2	0.003	<1	1.68	0.003	0.03	<0.1	1.9	0.04	<0.02	9	0.2	0.02	5.5	0.66	<0.1	0.05	

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:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000272.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
073790	Soil	0.18	7.3	0.7	<0.05	0.6	4.51	48.2	<0.02	<1	0.4	39.6	<10	<2
073791	Soil	0.13	4.6	0.3	<0.05	1.7	3.98	66.7	<0.02	1	0.5	47.5	<10	<2
073792	Soil	0.33	7.1	0.5	<0.05	2.1	2.89	61.3	<0.02	<1	0.3	38.7	<10	<2
073793	Soil	0.52	6.7	0.6	<0.05	0.7	2.56	59.4	<0.02	<1	<0.1	24.7	<10	<2
073794	Soil	0.15	6.8	0.3	<0.05	3.2	3.23	54.0	0.03	<1	0.4	39.1	<10	<2
073795	Soil	0.14	4.4	0.2	<0.05	5.2	6.01	58.6	0.03	<1	0.4	61.2	<10	<2
073796	Soil	0.16	5.6	0.2	<0.05	6.6	15.09	97.1	0.06	<1	1.1	95.1	<10	<2
073797	Soil	0.22	3.3	0.3	<0.05	1.1	3.44	58.4	0.03	<1	<0.1	27.6	<10	<2
073798	Soil	0.39	6.0	0.4	<0.05	2.3	3.47	50.9	<0.02	1	0.3	35.7	<10	<2
073799	Soil	0.72	6.7	0.8	<0.05	1.0	2.75	56.5	<0.02	<1	0.2	15.5	<10	<2
073800	Soil	0.30	6.0	0.4	<0.05	1.0	2.91	39.2	<0.02	<1	0.3	31.9	<10	<2
072981	Soil	0.04	3.6	0.2	<0.05	3.9	14.39	36.3	0.04	<1	0.5	32.7	<10	<2
072982	Soil	0.03	4.1	0.3	<0.05	3.3	7.83	36.1	0.03	<1	1.4	71.8	10	<2
072983	Soil	0.02	4.2	0.3	<0.05	4.0	8.55	43.9	0.03	<1	0.9	86.9	<10	3
072984	Soil	0.03	2.0	0.2	<0.05	4.1	9.50	18.2	<0.02	1	0.7	50.1	<10	3
072985	Soil	0.03	2.9	0.2	<0.05	4.1	12.21	43.2	0.04	<1	1.3	71.3	<10	<2
072986	Soil	0.13	3.8	0.2	<0.05	3.2	9.86	23.4	0.02	<1	0.4	35.9	<10	<2
072987	Soil	0.38	2.9	0.4	<0.05	3.0	11.12	40.1	<0.02	<1	0.7	71.4	<10	<2
072988	Soil	0.11	3.0	0.3	<0.05	2.2	10.02	30.5	0.04	<1	0.2	54.9	<10	<2
072989	Soil	0.03	2.4	0.5	<0.05	6.3	10.97	33.2	0.03	<1	0.5	51.4	<10	<2
072990	Soil	0.03	2.0	0.7	<0.05	5.0	10.54	37.1	0.04	<1	0.4	51.0	<10	<2
072991	Soil	0.05	2.7	0.6	<0.05	7.4	11.60	26.9	0.04	<1	0.3	27.4	<10	<2
072992	Soil	0.10	3.5	0.1	<0.05	3.7	7.35	55.6	0.06	<1	0.7	61.0	<10	<2
072993	Soil	0.12	5.9	0.4	<0.05	0.7	2.56	34.6	<0.02	<1	0.3	19.4	<10	<2
072994	Soil	0.07	4.3	0.5	<0.05	2.3	7.17	32.8	0.04	<1	0.4	39.3	<10	<2
072995	Soil	0.03	3.2	0.3	<0.05	1.6	7.42	49.8	0.04	<1	0.3	57.0	<10	<2
072996	Soil	0.18	5.2	0.3	<0.05	2.4	3.35	49.7	<0.02	<1	0.4	46.2	<10	<2
072997	Soil	0.15	3.7	0.6	<0.05	1.4	3.86	37.8	0.03	<1	0.2	22.7	<10	<2
072998	Soil	0.24	4.6	0.6	<0.05	1.1	2.19	40.9	0.02	<1	0.2	24.6	<10	<2
072999	Soil	0.31	4.8	0.5	<0.05	2.0	3.51	43.6	0.03	<1	0.1	41.5	<10	<2



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

## WHI16000272.1

Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
073000	Soil	0.25	26.48	29.40	95.1	29	39.7	15.9	711	4.77	23.1	0.7	2.0	9.4	6.8	0.08	0.58	0.42	16	0.08	0.044
073821	Soil	0.26	26.61	22.46	71.7	71	28.1	11.5	317	3.42	7.2	3.7	1.9	10.9	36.3	0.03	0.53	0.44	10	0.55	0.051
073822	Soil	0.37	27.56	20.47	74.8	61	24.6	10.5	386	3.02	5.7	4.7	1.4	8.3	58.8	0.06	0.49	0.39	10	1.09	0.048
073823	Soil	0.24	24.46	21.00	76.5	37	24.8	10.4	303	3.21	6.1	2.8	1.3	9.7	35.8	0.04	0.38	0.39	11	0.57	0.053
073824	Soil	0.22	24.71	19.38	71.3	44	25.3	10.8	320	3.31	6.5	2.1	2.2	11.1	31.6	0.05	0.39	0.37	11	0.52	0.051
073825	Soil	0.24	26.43	20.41	75.4	69	26.4	11.1	354	3.26	6.1	2.9	1.3	10.3	40.1	0.04	0.46	0.39	11	0.65	0.053
073826	Soil	0.27	44.66	37.46	113.8	34	39.2	20.2	615	4.83	10.6	0.9	3.9	14.9	15.1	0.05	0.64	0.81	12	0.19	0.079
073827	Soil	0.28	40.20	37.88	102.7	128	41.2	17.3	600	4.59	5.7	1.0	1.3	17.9	26.6	0.06	0.43	0.56	12	0.34	0.059
073828	Soil	0.32	34.95	45.51	79.4	45	30.6	18.2	695	4.05	9.6	0.8	1.9	11.1	11.8	0.05	0.63	0.62	13	0.16	0.054
073829	Soil	0.41	31.58	34.42	67.3	36	28.2	13.6	876	4.05	10.4	1.0	1.6	14.1	11.3	0.09	0.80	0.52	15	0.07	0.033
073830	Soil	0.52	22.91	18.41	80.4	62	25.8	11.8	383	3.10	14.8	1.0	1.8	11.2	13.3	0.12	0.45	0.71	20	0.18	0.059
073831	Soil	0.34	25.64	20.97	77.5	26	28.4	12.4	375	3.34	10.6	0.9	2.1	13.5	19.0	0.09	0.56	0.52	14	0.35	0.041
073832	Soil	0.39	31.40	24.96	79.3	57	31.4	14.4	488	3.64	8.2	0.9	2.2	15.6	18.6	0.06	0.56	0.45	12	0.27	0.050
073833	Soil	0.23	31.37	21.85	72.8	46	29.6	12.7	462	3.48	7.9	1.5	1.7	13.8	37.8	0.04	0.60	0.41	12	0.57	0.043
073834	Soil	0.23	28.45	18.66	72.9	55	27.3	10.1	293	3.29	7.0	1.1	1.0	11.7	32.2	0.03	0.59	0.38	12	0.52	0.054
073835	Soil	0.33	25.17	21.62	74.6	47	26.9	12.5	730	4.56	9.3	1.6	1.3	12.3	37.7	0.05	0.41	0.37	11	0.49	0.056
073836	Soil	0.29	21.30	18.28	63.1	37	27.1	10.7	357	3.46	9.1	1.0	0.9	11.7	16.3	0.01	0.35	0.40	14	0.19	0.033
073837	Soil	0.32	24.41	20.53	71.4	57	27.1	11.4	416	3.30	6.8	1.8	2.2	10.3	43.4	0.05	0.38	0.37	11	0.48	0.048
073838	Soil	0.49	11.48	12.05	47.1	21	16.6	6.8	199	3.01	7.1	0.7	0.7	1.4	5.1	0.04	0.56	0.33	18	0.04	0.053
073839	Soil	0.63	18.71	21.35	69.8	24	24.7	11.3	424	3.74	10.1	0.9	2.1	5.2	6.1	0.06	1.20	0.36	17	0.06	0.055
073840	Soil	0.62	15.02	14.58	39.9	28	12.7	6.5	385	3.07	7.5	0.8	0.3	1.5	6.5	0.02	0.65	0.40	23	0.05	0.082
072921	Soil	0.76	15.89	15.97	118.2	56	19.2	11.0	316	3.12	12.1	0.6	3.6	10.1	13.0	0.06	0.34	0.35	27	0.07	0.041
072922	Soil	0.54	11.62	16.77	94.3	42	18.4	9.3	216	3.57	27.4	0.4	6.1	8.4	10.5	0.07	0.37	0.37	25	0.04	0.023
072923	Soil	0.56	62.56	61.57	62.6	173	20.2	16.1	669	2.41	18.0	5.5	1.5	2.2	146.1	0.15	0.30	0.47	19	1.21	0.068
072924	Soil	0.77	26.31	16.95	30.7	99	15.3	8.7	253	2.14	15.4	1.6	1.8	6.1	35.6	0.06	0.91	0.38	13	0.24	0.030
072925	Soil	0.26	6.86	14.80	18.1	16	7.3	4.1	249	1.47	2.4	0.6	1.0	3.3	23.2	0.13	0.31	0.23	11	0.22	0.021
072926	Soil	0.38	20.03	26.16	50.3	65	20.2	8.7	212	3.05	10.2	1.4	1.7	6.5	23.3	0.16	0.46	0.36	14	0.29	0.049
072927	Soil	0.54	12.33	18.77	65.6	41	18.1	9.8	251	2.63	26.2	0.9	1.4	6.3	18.8	0.08	0.40	0.29	17	0.17	0.027
072928	Soil	0.45	7.89	5.19	14.8	41	5.2	2.6	44	0.98	15.1	0.4	1.5	1.7	34.4	0.08	0.33	0.14	11	0.34	0.031
072929	Soil	0.37	8.19	13.24	38.5	71	8.4	5.4	164	1.77	2.6	0.4	<0.2	5.1	19.8	0.11	0.33	0.24	14	0.15	0.025



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

## WHI16000272.1

Method Analyte Unit MDL	AQ251 La	AQ251 Cr	AQ251 Mg	AQ251 Ba	AQ251 Ti	AQ251 B	AQ251 Al	AQ251 Na	AQ251 K	AQ251 W	AQ251 Sc	AQ251 Ti	AQ251 S	AQ251 Hg	AQ251 Se	AQ251 Te	AQ251 Ga	AQ251 Cs	AQ251 Ge	AQ251 Hf
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
073000 Soil	24.7	28.3	0.82	17.0	0.002	<1	2.05	0.003	0.03	<0.1	1.8	0.02	<0.02	<5	0.1	0.06	5.6	0.73	<0.1	0.03
073821 Soil	22.2	18.3	0.56	33.1	0.002	<1	1.57	0.004	0.05	<0.1	1.8	0.03	0.02	18	0.3	<0.02	4.0	0.50	<0.1	0.06
073822 Soil	14.3	18.1	0.49	42.9	0.002	3	1.49	0.006	0.07	<0.1	1.7	0.04	0.05	29	0.6	0.04	4.0	0.50	<0.1	0.08
073823 Soil	20.5	18.7	0.51	51.5	0.002	<1	1.65	0.006	0.09	<0.1	2.2	0.04	0.03	13	0.4	0.03	4.1	0.55	<0.1	0.09
073824 Soil	26.4	19.0	0.54	44.3	0.002	<1	1.61	0.006	0.09	<0.1	2.0	0.04	0.02	21	0.2	0.03	4.2	0.52	<0.1	0.11
073825 Soil	22.1	19.5	0.53	55.7	0.002	<1	1.67	0.007	0.10	<0.1	2.1	0.04	0.03	17	0.3	0.03	4.4	0.59	<0.1	0.09
073826 Soil	22.3	24.0	0.66	33.0	0.002	<1	1.97	0.003	0.04	<0.1	2.8	0.03	<0.02	17	<0.1	0.04	4.7	0.60	<0.1	0.04
073827 Soil	17.7	27.0	0.74	25.8	<0.001	<1	2.08	0.004	0.03	<0.1	5.3	0.03	<0.02	54	<0.1	0.04	5.4	0.67	<0.1	0.07
073828 Soil	18.5	22.8	0.60	27.6	0.003	<1	1.75	0.005	0.03	<0.1	2.2	0.04	<0.02	13	0.1	0.05	4.8	0.51	<0.1	0.04
073829 Soil	23.7	22.1	0.53	33.9	0.001	<1	1.70	0.004	0.03	<0.1	2.6	0.05	<0.02	12	0.3	0.03	5.2	0.56	<0.1	0.04
073830 Soil	28.9	22.1	0.67	35.7	0.020	<1	1.53	0.007	0.08	1.5	2.8	0.13	<0.02	6	<0.1	<0.02	4.2	2.03	<0.1	0.07
073831 Soil	33.7	20.7	0.58	47.0	0.006	<1	1.61	0.006	0.10	0.6	2.3	0.07	<0.02	15	0.1	<0.02	4.4	1.08	<0.1	0.08
073832 Soil	38.2	22.0	0.59	44.0	0.003	1	1.76	0.005	0.14	0.1	2.5	0.05	<0.02	11	<0.1	0.04	4.0	0.68	<0.1	0.10
073833 Soil	30.4	21.5	0.55	63.5	0.002	2	1.87	0.008	0.17	<0.1	2.8	0.05	<0.02	13	0.3	0.04	4.3	0.68	<0.1	0.15
073834 Soil	25.3	19.9	0.55	51.0	0.002	1	1.70	0.008	0.11	<0.1	2.0	0.05	<0.02	19	0.3	0.02	4.2	0.61	<0.1	0.08
073835 Soil	21.2	18.7	0.54	55.1	0.003	1	1.58	0.005	0.08	<0.1	2.0	0.04	0.09	16	0.3	0.04	4.0	0.50	<0.1	0.11
073836 Soil	37.0	22.0	0.56	40.7	0.004	<1	1.72	0.004	0.06	0.2	1.6	0.06	<0.02	13	<0.1	0.02	4.6	0.99	<0.1	<0.02
073837 Soil	24.6	19.7	0.53	50.4	0.003	<1	1.69	0.007	0.08	<0.1	2.5	0.05	0.02	23	0.4	<0.02	4.2	0.58	<0.1	0.08
073838 Soil	24.1	17.3	0.35	41.4	0.006	1	1.36	0.005	0.03	<0.1	0.7	0.08	0.02	9	0.4	0.03	4.9	0.81	<0.1	<0.02
073839 Soil	26.9	18.5	0.42	31.2	0.009	<1	1.33	0.004	0.04	<0.1	1.5	0.04	<0.02	11	0.2	0.03	4.0	0.83	<0.1	<0.02
073840 Soil	22.6	13.7	0.21	52.4	0.005	<1	1.31	0.005	0.04	<0.1	0.6	0.09	0.04	21	0.4	0.03	5.0	1.08	<0.1	<0.02
072921 Soil	38.2	23.1	0.43	58.2	0.004	<1	1.85	0.003	0.06	<0.1	1.9	0.11	<0.02	19	0.1	0.05	6.6	2.19	<0.1	0.06
072922 Soil	34.6	20.9	0.41	45.1	0.006	<1	1.64	0.006	0.05	0.2	1.5	0.07	<0.02	9	<0.1	0.05	6.5	1.32	<0.1	0.03
072923 Soil	12.0	17.4	0.32	89.1	0.010	1	1.44	0.012	0.05	0.1	1.9	0.08	0.06	18	0.4	<0.02	4.6	1.94	<0.1	<0.02
072924 Soil	18.8	10.5	0.17	38.3	0.003	<1	0.82	0.011	0.04	0.1	1.0	0.05	0.02	24	0.2	0.04	3.1	1.73	<0.1	0.03
072925 Soil	9.7	4.9	0.06	40.7	0.005	<1	0.74	0.020	0.03	<0.1	1.1	0.04	<0.02	12	<0.1	0.02	2.3	0.54	<0.1	0.04
072926 Soil	15.6	18.1	0.32	34.6	0.003	1	1.39	0.007	0.05	<0.1	1.5	0.05	0.04	29	0.2	0.04	4.2	1.38	<0.1	0.03
072927 Soil	20.0	19.7	0.32	35.9	0.005	2	1.22	0.012	0.05	0.1	1.5	0.06	0.02	18	<0.1	0.05	4.5	1.33	<0.1	0.03
072928 Soil	10.8	5.5	0.07	18.2	0.005	<1	0.38	0.013	0.04	0.1	0.5	0.04	0.07	19	0.4	<0.02	2.2	0.42	<0.1	0.02
072929 Soil	19.2	9.3	0.16	35.3	0.003	<1	0.84	0.013	0.05	<0.1	1.0	0.06	<0.02	22	0.4	0.03	3.8	0.96	<0.1	<0.02



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**Project:** None Given  
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# CERTIFICATE OF ANALYSIS

WHI16000272.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
073000	Soil	0.10	4.3	0.2	<0.05	2.2	3.09	49.3	0.03	<1	0.3	57.5	<10	<2
073821	Soil	0.10	4.1	0.3	<0.05	3.2	6.81	41.9	0.02	<1	0.4	43.6	<10	<2
073822	Soil	0.15	4.8	0.5	<0.05	3.7	5.90	27.8	<0.02	<1	0.7	37.7	<10	<2
073823	Soil	0.15	5.7	0.3	<0.05	3.6	6.08	38.5	<0.02	<1	0.4	37.9	<10	<2
073824	Soil	0.14	5.5	0.4	<0.05	4.1	6.30	49.7	<0.02	<1	0.7	39.0	<10	<2
073825	Soil	0.17	6.2	0.2	<0.05	3.7	6.41	42.4	<0.02	<1	0.5	40.5	<10	<2
073826	Soil	0.09	4.0	0.3	<0.05	1.9	5.65	42.6	<0.02	<1	0.4	65.1	<10	<2
073827	Soil	0.14	3.3	0.4	<0.05	3.5	11.81	33.3	0.04	<1	0.9	78.3	<10	<2
073828	Soil	0.06	3.8	0.4	<0.05	1.8	4.50	35.3	<0.02	<1	0.1	59.2	<10	<2
073829	Soil	0.09	4.4	0.3	<0.05	1.6	4.90	47.7	0.02	<1	0.7	51.0	<10	<2
073830	Soil	0.39	11.4	0.7	<0.05	4.8	7.37	57.8	<0.02	<1	0.7	45.0	<10	<2
073831	Soil	0.33	8.6	0.3	<0.05	4.6	5.80	63.6	<0.02	<1	0.2	39.4	<10	<2
073832	Soil	0.07	6.5	0.8	<0.05	5.7	7.02	74.4	<0.02	<1	0.3	43.7	<10	<2
073833	Soil	0.12	8.6	0.6	<0.05	7.1	7.22	57.2	0.02	<1	0.7	40.8	<10	<2
073834	Soil	0.12	6.5	0.3	<0.05	4.5	6.89	48.3	<0.02	<1	0.4	42.3	<10	<2
073835	Soil	0.15	5.3	0.2	<0.05	5.4	6.39	40.5	<0.02	<1	0.6	44.4	<10	<2
073836	Soil	0.16	6.8	0.9	<0.05	2.0	4.29	73.2	0.02	<1	0.5	43.0	<10	<2
073837	Soil	0.19	5.8	0.6	<0.05	3.4	7.62	47.4	0.02	<1	0.4	50.3	<10	2
073838	Soil	0.24	4.0	0.5	<0.05	0.6	2.62	45.2	0.02	<1	0.2	24.0	<10	<2
073839	Soil	0.29	4.8	0.5	<0.05	0.7	4.18	51.1	0.02	<1	0.3	29.7	<10	<2
073840	Soil	0.27	5.4	0.6	<0.05	0.8	3.62	42.9	0.03	<1	0.3	15.1	<10	<2
072921	Soil	0.47	8.4	1.5	<0.05	2.3	2.46	69.5	<0.02	<1	0.2	55.2	<10	<2
072922	Soil	0.51	8.9	0.5	<0.05	2.7	1.82	63.9	<0.02	<1	0.2	43.6	<10	<2
072923	Soil	1.07	7.4	0.4	<0.05	1.2	7.73	22.2	0.02	<1	0.5	36.0	<10	<2
072924	Soil	0.44	6.6	0.2	<0.05	1.2	3.87	34.5	<0.02	<1	0.4	21.9	<10	<2
072925	Soil	0.48	3.5	0.3	<0.05	1.7	2.48	24.2	<0.02	<1	0.3	9.4	<10	<2
072926	Soil	0.49	7.9	0.3	<0.05	2.3	3.45	31.7	0.03	<1	0.3	44.9	<10	<2
072927	Soil	0.69	10.8	0.5	<0.05	1.3	2.37	39.0	0.02	<1	0.4	46.6	<10	<2
072928	Soil	0.42	6.5	0.3	<0.05	1.3	0.97	20.8	<0.02	<1	<0.1	6.6	<10	<2
072929	Soil	0.46	8.9	0.3	<0.05	0.9	1.36	37.8	<0.02	<1	<0.1	24.3	<10	<2



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Project: None Given Report Date: September 23, 2016

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CERTIFICATE OF ANALYSIS

WHI16000272.1

Table with columns: Method Analyte Unit MDL, and 20 elements (Mo, Cu, Pb, Zn, Ag, Ni, Co, Mn, Fe, As, U, Au, Th, Sr, Cd, Sb, Bi, V, Ca, P) with values for 20 samples (072930-073959).

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:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000272.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
072930	Soil	9.6	12.6	0.37	34.9	0.001	3	0.97	0.005	0.03	<0.1	1.8	0.03	0.12	48	0.5	<0.02	2.2	0.62	<0.1	0.06
072931	Soil	19.8	16.6	0.30	79.9	0.002	3	1.44	0.006	0.09	<0.1	2.3	0.09	0.04	45	0.1	0.03	3.7	1.48	<0.1	0.05
072932	Soil	31.0	21.7	0.42	57.8	0.002	<1	2.02	0.006	0.07	<0.1	2.0	0.09	<0.02	10	<0.1	0.02	5.7	0.86	<0.1	0.07
072933	Soil	23.9	21.0	0.49	60.7	0.002	<1	1.62	0.007	0.08	<0.1	2.1	0.05	0.03	18	0.3	0.04	3.8	0.77	<0.1	0.04
072934	Soil	20.7	19.8	0.47	54.3	0.003	<1	1.56	0.008	0.09	<0.1	2.3	0.05	0.05	26	0.6	0.05	4.2	1.08	<0.1	0.09
072935	Soil	16.3	18.9	0.41	51.9	0.011	3	1.37	0.022	0.05	0.2	2.1	0.05	0.07	30	1.1	0.02	3.2	0.94	<0.1	0.05
072936	Soil	17.0	15.1	0.34	48.8	0.006	2	1.12	0.019	0.06	<0.1	2.0	0.05	0.04	24	0.6	<0.02	2.9	1.05	<0.1	0.05
072937	Soil	25.9	19.4	0.35	79.6	0.008	2	1.43	0.012	0.09	0.1	3.2	0.08	0.07	46	1.4	0.06	4.3	1.85	<0.1	0.07
072938	Soil	26.9	24.1	0.55	76.2	0.009	2	1.81	0.010	0.07	0.1	3.0	0.08	0.02	18	0.2	0.04	4.4	1.67	<0.1	0.05
072939	Soil	51.8	26.1	0.65	35.3	0.007	<1	1.84	0.003	0.04	<0.1	1.5	0.05	0.02	25	<0.1	0.03	4.4	0.86	<0.1	0.06
072940	Soil	36.0	20.7	0.56	29.3	0.007	<1	1.52	0.003	0.03	<0.1	1.3	0.03	<0.02	18	<0.1	0.02	3.4	0.76	<0.1	0.06
072941	Soil	42.8	23.7	0.63	42.0	0.005	<1	1.69	0.003	0.04	<0.1	1.8	0.03	<0.02	7	<0.1	0.03	3.6	1.01	<0.1	0.07
072942	Soil	27.8	14.4	0.30	38.3	0.004	<1	1.36	0.004	0.03	<0.1	1.5	0.05	<0.02	21	<0.1	0.06	4.2	0.96	<0.1	0.05
072943	Soil	11.5	8.6	0.16	39.1	0.010	<1	0.82	0.020	0.03	<0.1	0.3	0.04	0.05	24	0.3	<0.02	3.4	0.95	<0.1	<0.02
072944	Soil	25.8	18.8	0.38	36.6	0.005	<1	1.55	0.006	0.04	<0.1	0.9	0.06	0.04	23	0.3	0.04	4.7	1.18	<0.1	0.06
072945	Soil	18.7	7.7	0.10	46.1	0.006	<1	0.62	0.003	0.03	<0.1	2.2	0.04	0.03	17	0.2	0.02	1.5	0.98	<0.1	0.02
072946	Soil	10.4	4.8	0.08	47.2	0.008	<1	0.73	0.027	0.04	<0.1	0.9	0.05	0.04	26	0.4	0.02	1.9	0.69	<0.1	0.03
072947	Soil	25.6	8.2	0.08	41.1	0.011	<1	0.73	0.017	0.06	0.1	1.0	0.07	0.03	37	0.6	0.04	3.0	1.93	<0.1	<0.02
072948	Soil	20.9	5.3	0.09	29.2	0.007	<1	0.58	0.013	0.04	<0.1	1.1	0.05	0.03	54	0.4	0.03	1.2	1.00	<0.1	<0.02
072949	Soil	57.8	15.9	0.60	23.2	0.002	<1	1.58	0.001	0.06	<0.1	1.3	0.03	<0.02	19	<0.1	0.05	3.5	1.35	<0.1	0.06
072950	Soil	39.3	6.4	0.20	60.2	0.003	<1	0.76	0.005	0.09	<0.1	2.3	0.06	<0.02	29	0.2	0.04	1.5	1.72	<0.1	0.08
073951	Soil	13.4	12.3	0.11	61.1	0.004	<1	1.88	0.010	0.02	<0.1	1.5	0.04	0.03	51	0.3	<0.02	2.3	0.72	<0.1	0.04
073952	Soil	14.6	11.6	0.27	52.5	0.010	<1	0.94	0.020	0.03	<0.1	1.1	0.04	0.03	15	0.2	0.03	3.8	0.94	<0.1	0.02
073953	Soil	33.7	18.0	0.42	36.1	0.006	<1	1.42	0.004	0.04	0.1	1.3	0.06	<0.02	11	0.2	0.03	4.9	1.30	<0.1	0.03
073954	Soil	5.0	8.2	0.17	15.8	0.007	<1	0.58	0.022	0.03	<0.1	0.5	0.02	0.02	14	0.1	0.02	2.7	0.79	<0.1	<0.02
073955	Soil	11.3	11.0	0.26	16.4	0.005	<1	0.89	0.016	0.03	<0.1	0.9	0.03	<0.02	22	0.3	0.03	3.3	1.40	<0.1	0.03
073956	Soil	23.0	25.2	0.46	30.7	0.005	<1	1.85	0.004	0.03	0.1	1.7	0.06	<0.02	24	0.3	0.03	7.1	1.24	<0.1	0.04
073957	Soil	27.1	11.2	0.30	49.0	0.004	1	0.85	0.005	0.04	0.2	3.9	0.03	0.05	65	0.3	0.06	2.0	1.01	<0.1	0.04
073958	Soil	24.5	26.3	0.65	46.4	0.003	<1	1.90	0.005	0.03	0.2	1.4	0.03	<0.02	12	0.2	0.03	4.7	1.00	<0.1	0.05
073959	Soil	40.3	29.0	0.63	24.8	0.001	<1	1.55	0.004	0.04	<0.1	3.3	0.05	<0.02	18	<0.1	<0.02	3.4	1.56	<0.1	0.07



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
072930	Soil	0.12	3.3	<0.1	<0.05	2.5	5.60	18.1	<0.02	<1	0.4	34.3	<10	<2
072931	Soil	0.41	14.6	0.5	<0.05	2.5	7.26	39.8	0.03	<1	0.6	34.6	<10	<2
072932	Soil	0.42	9.4	0.5	<0.05	3.3	2.41	57.5	<0.02	<1	0.5	48.6	<10	<2
072933	Soil	0.28	6.7	0.4	<0.05	2.6	4.87	45.6	0.02	<1	0.2	46.7	<10	<2
072934	Soil	0.80	7.6	0.3	<0.05	4.1	5.37	38.3	<0.02	<1	0.8	42.5	<10	<2
072935	Soil	0.98	7.9	0.5	<0.05	1.8	8.09	29.9	<0.02	<1	0.2	35.7	<10	<2
072936	Soil	0.56	7.0	0.4	<0.05	2.1	5.48	31.7	<0.02	<1	0.5	36.6	<10	<2
072937	Soil	0.61	16.8	0.7	<0.05	1.8	18.42	40.7	0.02	<1	0.9	44.9	<10	<2
072938	Soil	1.06	12.0	0.4	<0.05	1.7	7.27	51.8	0.03	<1	0.6	68.8	<10	<2
072939	Soil	0.19	5.3	0.2	<0.05	2.4	4.04	98.4	0.03	<1	0.3	41.6	<10	<2
072940	Soil	0.18	3.4	0.2	<0.05	1.8	3.86	72.1	0.03	<1	0.3	34.3	<10	<2
072941	Soil	0.17	4.0	0.2	<0.05	3.0	5.50	84.5	<0.02	<1	0.4	38.4	<10	<2
072942	Soil	0.24	4.4	0.3	<0.05	1.5	3.98	51.7	<0.02	<1	0.2	27.1	<10	<2
072943	Soil	0.19	4.7	0.5	<0.05	0.7	2.08	21.2	<0.02	<1	0.2	9.4	<10	<2
072944	Soil	0.25	5.2	0.3	<0.05	2.3	3.17	48.8	0.02	<1	0.4	30.1	<10	<2
072945	Soil	0.18	5.1	0.4	<0.05	0.6	8.82	40.2	0.03	<1	0.2	6.1	<10	<2
072946	Soil	0.29	4.5	0.2	<0.05	0.9	5.67	20.1	<0.02	<1	0.4	5.6	<10	<2
072947	Soil	0.39	10.0	3.0	<0.05	1.0	2.90	51.7	<0.02	<1	<0.1	4.0	<10	<2
072948	Soil	0.11	4.2	0.2	<0.05	0.8	3.22	45.2	<0.02	<1	<0.1	4.7	<10	<2
072949	Soil	0.05	5.1	0.8	<0.05	3.3	7.57	108.8	0.03	<1	0.7	41.9	<10	<2
072950	Soil	0.05	5.5	0.1	<0.05	8.8	9.91	77.9	<0.02	<1	0.7	11.1	<10	<2
073951	Soil	0.27	4.5	0.5	<0.05	2.0	6.50	40.1	0.05	<1	0.7	13.9	<10	<2
073952	Soil	0.36	4.4	0.2	<0.05	0.7	2.17	27.8	<0.02	<1	0.1	22.1	<10	<2
073953	Soil	0.34	6.3	0.8	<0.05	1.6	2.90	65.1	0.03	<1	0.6	33.6	<10	<2
073954	Soil	0.13	2.2	0.2	<0.05	0.4	0.83	9.6	<0.02	<1	<0.1	12.8	<10	<2
073955	Soil	0.19	2.7	0.7	<0.05	1.2	1.74	20.3	<0.02	<1	0.1	19.1	<10	<2
073956	Soil	0.58	6.3	0.5	<0.05	4.0	2.09	42.0	0.02	<1	0.5	39.6	<10	<2
073957	Soil	0.22	4.6	1.6	<0.05	1.6	21.30	42.3	0.03	<1	0.8	17.9	<10	<2
073958	Soil	0.14	5.5	0.2	<0.05	2.2	2.06	47.7	0.03	<1	0.4	48.3	<10	<2
073959	Soil	0.07	2.7	0.7	<0.05	4.7	10.58	79.2	0.04	<1	0.7	44.9	<10	<2



# CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P		
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%	%
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
073960	Soil	0.31	18.10	22.78	46.7	83	22.8	18.3	1133	2.63	9.9	1.5	1.5	14.4	5.7	0.06	1.00	0.30	6	0.11	0.037	
071771	Soil	0.42	20.89	36.40	50.4	60	25.9	14.6	543	3.44	53.3	2.6	32.5	6.2	55.0	0.07	0.60	0.51	17	0.62	0.033	
071772	Soil	0.31	14.34	22.76	71.5	25	22.8	9.5	307	3.16	35.8	2.2	0.6	4.2	56.4	0.12	0.36	0.35	14	0.70	0.034	
071773	Soil	0.34	26.74	22.07	58.4	60	29.4	9.5	309	3.10	21.8	1.1	5.4	6.2	36.2	0.07	0.35	0.33	15	0.43	0.063	
071774	Soil	0.17	11.64	30.22	84.4	22	24.4	11.5	404	3.23	10.5	1.5	0.2	11.5	30.8	0.15	0.19	0.37	10	0.35	0.027	
071775	Soil	0.31	76.17	19.62	56.6	111	32.7	9.3	392	2.91	14.5	6.4	3.6	3.7	48.5	0.05	0.32	0.35	15	0.63	0.065	
071776	Soil	0.40	14.61	16.10	47.3	46	24.3	9.7	240	2.67	17.3	0.6	0.7	9.3	6.3	0.02	0.24	0.28	16	0.04	0.014	
071777	Soil	0.17	17.34	14.51	47.2	26	20.7	8.9	317	2.48	16.6	0.6	0.9	9.3	4.8	<0.01	0.23	0.25	14	0.03	0.019	
071778	Soil	0.31	14.27	15.82	46.8	37	23.6	9.1	204	2.75	19.1	0.6	0.6	8.1	7.6	<0.01	0.22	0.25	16	0.03	0.021	
071779	Soil	0.42	10.24	11.01	46.7	96	18.4	6.7	208	3.03	15.4	0.4	<0.2	6.1	6.9	<0.01	0.24	0.28	18	0.03	0.034	
071780	Soil	0.36	22.13	17.70	63.8	168	21.8	7.7	236	3.00	25.8	2.7	2.4	3.4	71.9	0.23	0.40	0.36	17	0.93	0.078	
071781	Soil	0.77	11.57	19.55	52.8	270	19.3	8.8	280	3.47	15.3	0.6	5.4	6.0	14.9	0.04	0.27	0.34	31	0.10	0.024	
071782	Soil	0.36	14.33	16.25	71.5	130	15.7	8.6	510	2.45	15.9	1.8	0.9	2.6	77.0	0.30	0.21	0.33	18	0.92	0.047	
071783	Soil	0.54	15.48	29.85	49.6	72	19.2	10.8	607	3.64	24.7	0.8	0.2	4.7	13.9	0.18	0.69	0.31	17	0.17	0.079	
071784	Soil	0.46	8.85	10.20	53.5	65	14.7	7.1	586	2.82	16.0	0.5	0.3	6.1	5.1	0.05	0.28	0.32	21	0.03	0.050	
071785	Soil	0.22	15.85	16.67	48.0	59	23.1	9.1	214	2.74	20.2	0.8	0.3	9.7	8.5	<0.01	0.23	0.30	18	0.03	0.019	
071786	Soil	0.40	22.33	17.54	51.8	111	26.5	9.8	236	2.72	22.9	0.7	1.5	9.6	5.8	0.02	0.29	0.29	18	0.05	0.032	
071787	Soil	0.57	10.75	14.40	51.3	56	15.8	7.3	237	3.08	19.9	0.5	1.0	5.5	5.2	0.06	0.24	0.34	22	0.03	0.046	
071788	Soil	0.30	9.16	11.91	36.7	33	15.0	5.5	159	2.15	16.7	0.4	0.5	7.0	4.9	<0.01	0.18	0.24	16	0.02	0.029	
071789	Soil	0.29	14.56	15.91	45.2	58	22.4	9.7	223	2.75	19.0	0.7	0.8	8.4	7.6	0.02	0.17	0.26	21	0.05	0.024	
071790	Soil	0.35	22.25	20.45	57.1	33	30.4	12.3	249	3.38	29.4	0.7	2.9	10.1	7.1	<0.01	0.30	0.33	18	0.02	0.024	
071791	Soil	0.17	14.39	17.12	47.7	21	26.2	10.8	205	2.82	51.8	0.5	1.4	8.4	8.4	<0.01	0.19	0.26	23	0.04	0.018	
071792	Soil	0.33	14.51	13.36	43.8	52	20.4	8.2	204	2.46	13.1	0.7	0.4	8.5	9.4	<0.01	0.20	0.25	20	0.06	0.016	
071793	Soil	0.13	14.08	14.39	39.4	26	15.7	6.4	267	1.95	9.4	0.5	<0.2	8.2	16.4	0.01	0.16	0.21	13	0.16	0.024	
071794	Soil	0.18	21.49	15.42	53.8	42	22.1	10.4	348	2.57	18.3	0.6	1.7	10.2	90.2	0.05	0.36	0.24	16	2.03	0.040	
071795	Soil	0.12	12.41	10.51	30.8	10	13.0	5.2	257	1.67	11.2	0.6	0.6	7.8	12.6	<0.01	0.15	0.16	11	0.11	0.015	
071796	Soil	0.24	13.77	23.95	46.0	80	14.1	6.2	237	2.33	10.7	0.7	0.4	6.8	40.4	0.06	0.15	0.21	5	0.64	0.029	
071797	Soil	0.33	32.68	25.34	74.0	111	29.0	11.0	351	3.51	18.9	1.4	1.1	5.4	63.4	0.14	0.33	0.37	15	0.76	0.046	
071798	Soil	0.21	41.53	24.05	52.3	159	25.7	8.6	282	2.48	15.6	3.3	3.3	2.3	124.6	0.13	0.34	0.34	11	1.77	0.081	
071799	Soil	0.56	13.95	27.17	88.8	53	26.2	12.1	288	3.53	16.3	2.0	0.5	7.5	42.7	0.10	0.33	0.40	22	0.46	0.030	



# CERTIFICATE OF ANALYSIS

WHI16000272.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
073960	Soil	19.5	8.7	0.27	28.5	0.002	1	0.91	0.003	0.03	<0.1	1.4	0.03	<0.02	53	<0.1	0.03	2.0	1.17	<0.1	0.09
071771	Soil	19.0	19.0	0.49	37.5	0.027	4	1.62	0.012	0.03	0.2	2.4	0.05	0.03	22	0.5	0.08	3.6	1.07	<0.1	0.03
071772	Soil	17.3	19.3	0.46	34.8	0.011	2	1.43	0.004	0.04	0.4	2.5	0.05	0.04	16	0.5	0.07	3.5	0.77	<0.1	0.02
071773	Soil	28.1	18.9	0.57	29.7	0.012	2	1.28	0.006	0.04	0.2	2.4	0.05	0.02	37	0.4	0.02	3.8	0.67	<0.1	0.03
071774	Soil	15.4	18.7	0.54	34.6	0.004	1	1.48	0.006	0.04	<0.1	1.4	0.04	<0.02	16	0.3	<0.02	3.6	0.78	<0.1	0.04
071775	Soil	19.4	20.6	0.50	40.5	0.011	<1	1.42	0.005	0.03	<0.1	2.8	0.06	0.04	84	0.7	<0.02	4.0	0.99	<0.1	0.05
071776	Soil	23.5	19.2	0.52	41.7	0.019	1	1.58	0.005	0.07	0.3	2.0	0.10	<0.02	11	0.4	0.03	3.7	0.88	<0.1	0.12
071777	Soil	30.6	18.9	0.51	30.7	0.015	<1	1.46	0.005	0.07	0.2	2.1	0.06	<0.02	11	<0.1	0.02	3.6	0.64	<0.1	0.02
071778	Soil	26.1	20.4	0.51	57.4	0.015	1	1.87	0.010	0.08	0.2	2.2	0.09	<0.02	15	0.2	0.04	4.5	0.95	<0.1	0.05
071779	Soil	25.7	18.2	0.48	40.5	0.012	<1	1.42	0.004	0.07	0.2	1.4	0.06	<0.02	12	<0.1	0.03	4.6	0.93	<0.1	<0.02
071780	Soil	17.0	20.6	0.53	35.4	0.017	2	1.48	0.012	0.07	0.1	2.8	0.05	0.07	35	0.9	0.03	3.9	1.03	<0.1	0.03
071781	Soil	22.6	25.0	0.52	42.2	0.034	1	1.77	0.005	0.05	0.3	2.0	0.10	<0.02	16	<0.1	0.03	5.3	1.48	<0.1	0.03
071782	Soil	16.2	16.6	0.41	45.2	0.019	2	1.20	0.009	0.05	0.2	1.6	0.06	0.04	14	0.6	0.02	3.7	0.99	<0.1	<0.02
071783	Soil	18.1	17.0	0.25	49.4	0.013	<1	1.53	0.006	0.03	0.2	1.7	0.05	<0.02	13	0.3	0.03	3.2	0.95	<0.1	0.03
071784	Soil	27.9	17.0	0.38	37.7	0.020	2	1.12	0.004	0.06	0.3	1.3	0.06	<0.02	9	0.2	0.05	4.3	1.32	<0.1	<0.02
071785	Soil	30.6	20.6	0.54	43.9	0.019	2	1.86	0.006	0.10	0.2	2.4	0.09	<0.02	9	0.2	<0.02	4.7	1.01	<0.1	0.05
071786	Soil	24.3	21.0	0.55	37.3	0.021	<1	1.70	0.005	0.06	0.4	2.3	0.10	<0.02	22	0.2	0.03	3.9	0.99	<0.1	0.03
071787	Soil	23.8	17.7	0.41	35.4	0.021	<1	1.37	0.004	0.04	0.3	1.4	0.07	<0.02	16	0.1	0.05	5.2	1.36	<0.1	<0.02
071788	Soil	27.9	15.8	0.37	40.7	0.013	3	1.31	0.006	0.05	0.2	1.5	0.07	<0.02	<5	0.2	<0.02	4.2	0.78	<0.1	0.04
071789	Soil	25.6	22.2	0.57	60.2	0.031	3	2.10	0.007	0.09	0.1	2.6	0.10	<0.02	13	<0.1	0.03	5.2	1.05	<0.1	0.04
071790	Soil	31.2	24.3	0.59	61.3	0.009	1	2.15	0.009	0.11	0.1	2.5	0.08	<0.02	15	0.2	0.03	5.3	1.01	<0.1	0.07
071791	Soil	30.9	25.2	0.54	66.2	0.014	2	1.94	0.007	0.08	0.1	2.7	0.08	<0.02	9	0.2	0.03	4.9	1.02	<0.1	0.04
071792	Soil	24.6	19.2	0.49	37.6	0.031	1	1.55	0.005	0.07	0.3	2.2	0.09	<0.02	13	0.2	0.02	4.0	1.06	<0.1	0.03
071793	Soil	29.1	15.7	0.42	37.5	0.018	1	1.18	0.014	0.11	0.2	1.9	0.08	<0.02	11	<0.1	<0.02	3.1	0.78	<0.1	0.02
071794	Soil	28.6	17.6	0.52	40.4	0.021	2	1.38	0.017	0.13	<0.1	2.7	0.11	<0.02	11	0.3	0.03	3.5	1.12	<0.1	0.07
071795	Soil	22.3	11.6	0.31	23.0	0.019	1	0.91	0.010	0.06	0.2	2.2	0.10	<0.02	6	<0.1	0.02	2.6	0.99	<0.1	<0.02
071796	Soil	25.1	8.4	0.22	23.9	0.002	1	0.58	0.002	0.02	<0.1	3.0	0.03	<0.02	30	0.2	0.02	1.4	0.36	<0.1	0.05
071797	Soil	29.1	19.3	0.53	44.7	0.010	2	1.38	0.006	0.04	<0.1	3.3	0.05	0.03	39	0.3	0.03	4.0	0.74	<0.1	0.03
071798	Soil	22.2	16.1	0.43	52.5	0.008	3	1.22	0.009	0.04	0.2	2.4	0.04	0.08	61	0.8	0.03	3.2	0.79	<0.1	0.03
071799	Soil	33.6	23.5	0.55	56.0	0.008	2	1.84	0.008	0.04	0.1	2.1	0.06	0.03	12	0.6	0.03	5.2	1.09	<0.1	0.03



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
073960	Soil	0.05	2.6	0.4	<0.05	2.4	10.33	39.3	0.04	<1	0.7	20.6	<10	<2
071771	Soil	0.97	5.6	0.5	<0.05	1.4	6.22	55.4	0.04	<1	0.3	55.0	<10	<2
071772	Soil	0.77	8.6	0.3	<0.05	1.1	4.35	34.8	0.02	<1	0.8	60.6	<10	<2
071773	Soil	0.39	5.1	0.3	<0.05	1.2	8.61	52.5	<0.02	<1	0.2	38.9	<10	<2
071774	Soil	0.24	8.2	0.2	<0.05	2.2	3.59	29.3	<0.02	<1	0.7	65.2	<10	<2
071775	Soil	0.65	4.7	0.7	<0.05	1.7	11.38	37.0	0.03	<1	0.6	38.3	<10	<2
071776	Soil	0.86	8.9	0.4	<0.05	3.8	3.02	45.9	<0.02	<1	0.5	29.4	<10	<2
071777	Soil	0.46	6.1	0.8	<0.05	2.7	3.59	58.1	<0.02	<1	0.3	33.7	<10	<2
071778	Soil	0.70	10.4	0.4	<0.05	3.1	2.97	51.7	<0.02	<1	0.2	35.7	<10	<2
071779	Soil	0.80	11.3	0.5	<0.05	0.9	2.16	48.4	<0.02	<1	0.2	33.7	<10	<2
071780	Soil	1.07	15.1	0.3	<0.05	1.0	4.97	32.0	0.04	1	0.1	44.8	<10	<2
071781	Soil	1.34	12.6	0.7	<0.05	1.7	2.97	43.2	0.04	<1	0.7	37.5	<10	<2
071782	Soil	1.15	10.9	0.5	<0.05	0.7	3.12	29.7	<0.02	<1	0.4	43.3	<10	<2
071783	Soil	0.78	7.6	0.3	<0.05	0.9	3.39	42.6	<0.02	<1	0.5	26.3	<10	<2
071784	Soil	0.86	22.3	0.6	<0.05	0.5	2.27	53.1	<0.02	<1	<0.1	23.9	<10	<2
071785	Soil	0.44	10.0	0.4	<0.05	3.8	3.98	60.3	<0.02	<1	0.5	36.3	<10	<2
071786	Soil	1.01	9.1	0.8	<0.05	2.1	3.87	49.4	0.03	<1	0.4	35.4	<10	<2
071787	Soil	1.12	10.3	0.5	<0.05	0.9	2.20	46.4	0.02	<1	0.2	33.1	<10	<2
071788	Soil	0.59	8.9	0.6	<0.05	2.3	2.16	53.3	<0.02	<1	0.3	27.8	<10	<2
071789	Soil	0.91	10.2	0.6	<0.05	2.7	3.75	50.6	<0.02	<1	0.5	38.0	<10	<2
071790	Soil	0.52	10.9	0.4	<0.05	5.0	3.09	60.3	<0.02	<1	0.7	44.2	<10	<2
071791	Soil	0.51	11.3	0.4	<0.05	2.8	3.12	58.9	<0.02	<1	0.7	38.7	<10	<2
071792	Soil	0.90	11.0	0.6	<0.05	2.4	3.64	48.0	0.03	<1	0.5	26.5	<10	<2
071793	Soil	0.69	10.8	0.5	<0.05	1.9	5.01	54.4	<0.02	<1	0.3	25.9	<10	<2
071794	Soil	0.72	11.7	0.3	<0.05	4.6	6.02	53.9	<0.02	<1	0.2	39.2	<10	<2
071795	Soil	0.77	8.8	0.5	<0.05	1.2	6.52	43.9	<0.02	<1	<0.1	22.1	<10	<2
071796	Soil	0.09	4.1	0.2	<0.05	1.8	7.66	52.7	0.04	<1	0.6	21.6	<10	<2
071797	Soil	0.69	7.4	0.3	<0.05	1.2	10.66	54.5	0.03	<1	0.3	47.7	<10	<2
071798	Soil	0.68	5.7	0.7	<0.05	1.4	12.43	35.3	0.03	<1	0.4	37.8	<10	<2
071799	Soil	0.88	10.8	0.4	<0.05	1.2	4.31	59.4	<0.02	<1	0.5	82.3	<10	<2



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Project: None Given Report Date: September 23, 2016

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CERTIFICATE OF ANALYSIS

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Table with columns for Method, Analyte, Unit, MDL, and 20 elements (Mo, Cu, Pb, Zn, Ag, Ni, Co, Mn, Fe, As, U, Au, Th, Sr, Cd, Sb, Bi, V, Ca, P) with numerical values for each.



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000272.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
071800	Soil	27.0	22.0	0.50	57.7	0.015	3	1.57	0.007	0.05	0.2	3.2	0.08	0.03	31	0.5	0.03	4.3	1.18	<0.1	0.04
071601	Soil	26.1	17.2	0.46	47.6	0.012	2	1.28	0.009	0.06	0.1	2.4	0.06	<0.02	14	0.3	0.03	3.3	0.57	<0.1	0.03
071602	Soil	21.8	20.9	0.44	49.6	0.013	1	1.43	0.006	0.04	0.2	2.2	0.09	<0.02	17	0.3	0.02	4.5	0.86	<0.1	0.03
071603	Soil	22.0	12.4	0.16	32.9	0.012	2	0.93	0.006	0.04	0.2	0.9	0.05	<0.02	17	0.2	0.05	4.7	0.66	<0.1	<0.02
071604	Soil	22.5	16.2	0.29	44.6	0.011	2	1.22	0.006	0.04	0.2	2.2	0.07	0.03	41	0.6	0.02	3.4	0.91	<0.1	0.02
071605	Soil	22.1	20.1	0.45	56.8	0.010	2	1.79	0.011	0.04	0.3	2.1	0.09	<0.02	14	0.3	0.04	5.2	1.33	<0.1	0.03
071606	Soil	16.3	25.5	0.13	73.7	0.007	1	3.19	0.004	0.03	0.3	2.5	0.08	<0.02	42	0.6	0.07	4.9	1.06	<0.1	0.23
071607	Soil	29.5	23.2	0.57	62.7	0.015	<1	1.80	0.005	0.06	0.2	1.8	0.08	<0.02	6	<0.1	0.04	4.9	1.26	<0.1	0.11
071608	Soil	19.2	14.8	0.39	51.9	0.024	3	1.19	0.005	0.09	0.2	2.6	0.14	0.04	20	0.4	0.06	3.8	1.61	<0.1	<0.02
071609	Soil	26.0	22.9	0.56	46.0	0.012	2	1.48	0.016	0.10	0.2	2.7	0.07	0.02	28	0.3	0.03	4.0	0.91	<0.1	0.08
071610	Soil	42.5	30.3	0.86	53.3	0.004	2	2.28	0.004	0.05	<0.1	3.4	0.05	<0.02	35	0.2	0.07	6.1	0.77	<0.1	0.05
071561	Soil	18.7	20.1	0.48	58.9	0.002	1	1.46	0.008	0.10	0.3	2.2	0.08	<0.02	23	0.4	0.06	4.0	2.23	<0.1	0.05
071562	Soil	24.4	21.5	0.48	46.7	0.003	<1	1.42	0.006	0.09	0.3	1.9	0.07	<0.02	14	0.2	0.04	4.2	1.57	<0.1	<0.02
071563	Soil	25.1	23.1	0.54	47.4	0.003	1	1.47	0.006	0.09	0.2	2.4	0.07	<0.02	25	0.1	0.04	4.1	1.45	<0.1	0.05
071564	Soil	17.5	20.2	0.47	59.6	0.004	1	1.42	0.016	0.12	0.2	2.2	0.07	0.02	25	<0.1	0.03	4.4	2.10	<0.1	0.04
071565	Soil	21.2	23.6	0.54	57.8	0.004	<1	1.55	0.007	0.10	0.3	2.2	0.07	<0.02	18	0.4	0.02	3.9	1.32	<0.1	0.08
071566	Soil	15.0	17.6	0.34	81.5	0.004	<1	1.29	0.018	0.11	0.2	1.7	0.06	0.02	17	0.2	0.06	4.0	1.68	<0.1	<0.02
071567	Soil	33.4	24.8	0.50	35.4	0.003	<1	1.59	0.006	0.13	0.2	2.2	0.07	<0.02	11	<0.1	0.05	4.1	1.21	<0.1	0.04
071568	Soil	30.4	22.7	0.52	41.8	0.004	<1	1.48	0.006	0.09	0.2	2.7	0.05	<0.02	21	<0.1	0.07	3.9	1.14	<0.1	0.05
071569	Soil	28.4	23.8	0.56	61.9	0.003	1	1.72	0.007	0.11	0.2	2.5	0.08	<0.02	35	0.1	0.05	4.3	1.43	<0.1	0.03
071570	Soil	32.2	25.3	0.61	53.1	0.004	<1	1.76	0.006	0.10	0.3	2.3	0.07	<0.02	19	0.1	0.04	4.6	1.38	<0.1	0.05
071571	Soil	19.6	20.2	0.51	65.3	0.002	<1	1.58	0.007	0.09	0.2	1.9	0.08	0.02	38	0.4	0.07	4.3	1.86	<0.1	0.03
071572	Soil	17.3	25.9	0.69	59.5	0.002	2	1.84	0.008	0.08	0.2	2.1	0.08	0.04	40	0.7	0.05	4.8	1.41	<0.1	0.14
071573	Soil	22.4	25.0	0.66	52.6	0.002	1	1.80	0.007	0.08	0.2	2.2	0.07	0.03	19	0.3	0.05	4.6	1.26	<0.1	0.09
071574	Soil	27.0	25.1	0.66	57.8	0.006	<1	1.90	0.009	0.07	0.2	2.0	0.07	0.02	19	<0.1	0.02	5.1	1.59	<0.1	0.05
071575	Soil	31.4	24.4	0.72	25.8	0.013	<1	1.62	0.005	0.05	0.6	1.9	0.08	<0.02	11	0.2	<0.02	4.2	1.48	<0.1	0.05
071576	Soil	23.8	25.5	0.64	67.6	0.004	1	1.84	0.008	0.08	0.2	2.2	0.08	0.04	20	0.4	0.04	5.0	1.49	<0.1	0.09
071577	Soil	24.0	23.8	0.64	48.6	0.003	<1	1.71	0.006	0.08	0.2	2.1	0.07	0.03	32	0.4	0.03	4.5	1.23	<0.1	0.07
071578	Soil	22.6	23.7	0.65	55.5	0.003	<1	1.75	0.007	0.09	0.2	2.4	0.09	0.03	36	0.4	<0.02	4.9	1.67	<0.1	0.06
071579	Soil	39.9	29.0	0.64	59.7	0.010	4	2.11	0.021	0.20	0.3	3.5	0.09	<0.02	15	<0.1	0.03	5.4	1.78	<0.1	0.04



**BUREAU VERITAS** MINERAL LABORATORIES  
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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000272.1

	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
071800	Soil	1.06	9.0	0.8	<0.05	0.9	11.02	44.7	0.02	<1	0.6	64.4	<10	<2
071601	Soil	0.73	6.2	0.3	<0.05	1.6	6.66	47.0	0.02	<1	0.4	33.9	<10	<2
071602	Soil	1.10	9.8	0.5	<0.05	2.3	3.83	40.9	0.04	<1	0.5	55.9	<10	<2
071603	Soil	0.92	6.6	0.4	<0.05	0.7	1.63	40.8	<0.02	<1	0.4	17.7	<10	<2
071604	Soil	1.00	10.0	0.7	<0.05	0.7	8.58	38.1	<0.02	<1	0.6	38.8	<10	<2
071605	Soil	1.28	12.9	0.4	<0.05	1.9	3.73	42.0	0.02	<1	0.7	51.8	<10	<2
071606	Soil	1.46	9.2	1.5	<0.05	9.9	4.21	34.7	0.05	<1	1.5	32.3	<10	<2
071607	Soil	0.64	9.2	0.5	<0.05	4.6	2.99	53.9	<0.02	<1	0.3	50.1	<10	<2
071608	Soil	2.04	19.5	1.2	<0.05	0.7	7.35	42.2	<0.02	<1	0.4	44.9	<10	<2
071609	Soil	0.61	7.0	0.6	<0.05	2.0	6.77	48.1	0.02	<1	0.3	41.4	<10	<2
071610	Soil	0.26	6.0	0.4	<0.05	2.1	7.92	80.8	0.04	<1	0.7	96.1	<10	<2
071561	Soil	0.29	8.7	0.5	<0.05	1.8	4.61	32.4	0.03	1	0.6	32.1	<10	<2
071562	Soil	0.21	7.6	0.6	<0.05	0.9	2.96	43.8	0.03	<1	0.8	31.6	<10	<2
071563	Soil	0.22	7.0	0.5	<0.05	1.6	4.24	43.6	0.02	<1	0.6	34.1	<10	<2
071564	Soil	0.26	10.1	1.3	<0.05	1.8	4.36	29.8	0.04	<1	0.6	29.6	<10	<2
071565	Soil	0.28	8.0	0.7	<0.05	2.6	3.89	37.4	<0.02	<1	0.4	39.1	<10	<2
071566	Soil	0.36	10.0	0.5	<0.05	0.9	3.42	27.5	<0.02	<1	0.6	22.8	<10	<2
071567	Soil	0.13	6.2	0.3	<0.05	1.5	2.37	59.1	<0.02	<1	0.5	34.2	<10	<2
071568	Soil	0.11	6.5	0.3	<0.05	1.6	5.55	54.2	0.03	<1	0.7	37.2	<10	<2
071569	Soil	0.17	8.4	0.4	<0.05	1.7	5.24	52.2	0.04	<1	0.9	45.3	<10	<2
071570	Soil	0.20	7.7	0.6	<0.05	2.5	5.11	60.7	0.03	<1	0.7	47.2	<10	<2
071571	Soil	0.23	8.2	0.5	<0.05	2.2	3.89	36.6	0.02	<1	0.7	38.8	<10	<2
071572	Soil	0.20	7.0	0.4	<0.05	3.6	4.80	30.3	<0.02	<1	0.5	50.2	<10	<2
071573	Soil	0.23	6.7	0.4	<0.05	2.8	4.48	41.1	<0.02	<1	0.8	51.1	<10	<2
071574	Soil	0.41	8.6	0.5	<0.05	2.3	4.77	52.1	0.02	<1	0.4	52.8	<10	<2
071575	Soil	0.28	6.6	0.2	<0.05	2.7	6.49	60.3	0.02	<1	0.4	51.3	<10	<2
071576	Soil	0.39	8.2	0.8	<0.05	3.4	5.51	44.4	<0.02	<1	0.7	51.0	<10	<2
071577	Soil	0.28	6.3	0.3	<0.05	2.8	4.69	43.8	0.02	<1	0.3	48.2	<10	<2
071578	Soil	0.27	8.2	0.4	<0.05	2.6	5.31	41.1	0.03	<1	0.7	47.7	<10	<2
071579	Soil	0.29	10.8	0.5	<0.05	2.5	5.42	73.6	0.03	<1	0.7	50.7	<10	<2



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000272.1

	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
071580	Soil	1.19	27.35	22.57	98.2	96	34.2	15.0	386	3.82	31.4	1.9	2.7	9.7	24.7	0.12	0.76	0.51	23	0.31	0.079
071901	Soil	0.29	23.90	20.98	72.6	111	28.8	10.8	361	3.23	23.2	1.8	3.1	4.9	78.9	0.07	0.35	0.30	11	1.19	0.059
071902	Soil	0.29	22.10	21.93	70.8	53	30.7	12.8	383	3.49	35.3	1.6	2.1	7.2	36.5	0.04	0.37	0.31	12	0.45	0.029
071903	Soil	0.25	27.38	22.40	78.3	86	33.0	12.1	277	3.44	26.8	2.7	8.5	6.3	42.8	0.05	0.39	0.31	12	0.54	0.050
071904	Soil	0.35	28.55	25.30	85.1	41	34.2	14.6	623	3.83	37.6	3.6	3.7	8.6	39.8	0.05	0.50	0.36	14	0.40	0.052
071905	Soil	0.30	28.78	23.34	89.7	56	36.2	14.0	562	3.73	32.5	1.4	10.2	9.5	28.4	0.08	0.49	0.31	12	0.36	0.056
071906	Soil	0.20	18.74	15.61	49.7	16	24.4	9.0	277	2.60	13.8	0.6	0.8	10.1	6.9	<0.01	0.19	0.23	18	0.03	0.021
071907	Soil	0.35	8.76	6.91	46.9	32	16.6	6.4	216	2.54	12.6	0.4	0.8	7.0	3.4	<0.01	0.16	0.22	17	0.01	0.025
071908	Soil	0.20	12.50	12.98	41.0	15	18.9	7.4	233	2.22	10.2	0.6	0.6	9.3	7.7	<0.01	0.14	0.20	16	0.03	0.020
071909	Soil	0.28	10.59	14.91	43.7	13	20.2	8.4	284	2.58	13.4	0.6	0.9	7.3	8.4	0.02	0.18	0.24	18	0.06	0.018
071910	Soil	0.26	22.14	20.33	76.6	37	32.9	12.8	456	3.52	30.2	1.2	1.7	9.2	21.1	0.10	0.43	0.27	11	0.26	0.044
071911	Soil	0.45	27.85	25.48	74.0	39	35.5	17.0	365	3.89	32.9	4.7	6.6	11.3	14.3	0.07	0.42	0.34	13	0.11	0.034
071912	Soil	0.29	21.74	20.51	75.8	27	31.4	12.9	542	3.44	31.7	1.1	4.4	9.0	17.9	0.17	0.52	0.31	11	0.24	0.040
071913	Soil	0.23	17.54	16.36	41.9	29	20.9	7.7	250	2.30	13.5	0.8	1.3	10.8	9.1	0.03	0.21	0.25	17	0.03	0.021
071914	Soil	0.20	16.43	15.95	44.6	25	23.5	8.6	223	2.38	14.3	0.7	1.3	10.6	8.1	0.02	0.20	0.24	16	0.03	0.020
071915	Soil	0.25	15.11	14.85	40.0	19	20.9	7.8	201	2.41	13.4	0.5	0.7	9.2	9.1	0.01	0.19	0.20	14	0.04	0.019
071916	Soil	0.23	13.66	14.30	49.9	19	22.6	7.4	209	2.46	14.1	0.6	0.6	9.7	12.3	0.02	0.23	0.22	14	0.05	0.014
071917	Soil	0.34	21.99	22.44	57.2	64	27.9	10.9	321	3.20	35.5	0.6	1.9	11.2	13.1	0.02	0.52	0.31	13	0.09	0.024
071918	Soil	0.15	11.80	14.29	46.6	20	20.1	7.6	243	2.41	24.0	0.8	0.6	10.2	15.5	0.03	0.22	0.21	12	0.11	0.013
071919	Soil	0.28	10.43	12.85	43.3	19	19.4	7.0	195	2.58	15.8	0.5	0.2	8.0	10.6	0.02	0.27	0.22	13	0.07	0.016
071920	Soil	0.32	25.57	48.59	59.3	31	26.2	10.4	247	3.19	54.8	0.7	0.2	9.2	10.6	0.04	0.46	0.34	14	0.08	0.023
073971	Soil	0.38	67.93	45.56	87.0	61	38.4	27.9	880	4.13	15.5	1.9	2.7	17.9	8.9	0.03	0.83	0.54	11	0.11	0.040
073972	Soil	0.48	45.98	29.81	86.9	77	36.6	24.0	740	4.37	14.9	2.3	1.9	10.4	8.7	0.06	0.98	0.44	16	0.11	0.062
073973	Soil	0.57	23.76	26.84	76.3	80	28.0	13.0	450	4.18	8.0	1.5	<0.2	11.4	4.3	0.07	0.59	0.47	17	0.02	0.036
073974	Soil	0.42	23.73	20.62	62.2	104	20.2	15.2	665	2.94	7.0	0.9	0.4	5.1	4.7	0.06	0.35	0.44	10	0.03	0.049
073975	Soil	0.23	27.06	30.69	106.1	63	34.2	16.1	526	4.24	6.0	1.2	<0.2	13.3	7.0	0.03	0.47	0.37	10	0.08	0.041
073976	Soil	0.54	32.49	44.34	90.3	186	26.6	14.1	480	2.67	83.4	1.9	39.0	10.2	19.6	0.37	0.87	0.34	9	0.02	0.044
073977	Soil	0.72	30.83	64.64	100.9	107	25.5	8.3	160	3.53	86.7	1.3	22.1	8.1	13.3	0.23	1.23	0.43	11	0.01	0.047
073978	Soil	0.52	27.36	44.21	86.7	156	31.4	11.4	366	3.19	46.4	5.0	7.7	5.1	41.5	0.29	0.57	0.36	13	0.80	0.065
073979	Soil	0.37	15.62	15.00	74.8	90	37.0	11.8	397	4.37	15.4	0.5	3.6	9.3	2.9	0.06	0.26	0.33	19	<0.01	0.029



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# CERTIFICATE OF ANALYSIS

# WHI16000272.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
071580	Soil	32.0	27.1	0.91	43.5	0.009	<1	1.74	0.009	0.05	0.5	2.8	0.07	<0.02	9	0.3	<0.02	4.5	1.64	<0.1	0.05	
071901	Soil	13.5	21.6	0.61	41.9	0.003	2	1.60	0.007	0.05	<0.1	2.1	0.04	0.08	26	0.8	<0.02	4.3	0.75	<0.1	0.07	
071902	Soil	23.6	22.7	0.64	30.4	0.002	<1	1.64	0.005	0.04	<0.1	2.1	0.03	0.02	11	<0.1	0.02	4.4	0.59	<0.1	0.05	
071903	Soil	18.7	23.0	0.65	45.8	0.003	<1	1.79	0.012	0.04	0.1	2.0	0.03	0.03	16	0.5	0.03	4.8	0.70	<0.1	0.09	
071904	Soil	25.4	24.6	0.66	44.0	0.003	<1	1.82	0.007	0.05	<0.1	2.4	0.03	<0.02	18	0.3	0.05	4.6	0.80	<0.1	0.08	
071905	Soil	25.5	24.0	0.69	28.0	0.002	<1	1.65	0.005	0.04	<0.1	2.4	0.02	<0.02	13	<0.1	0.03	4.5	0.64	<0.1	0.07	
071906	Soil	29.2	22.3	0.54	60.3	0.024	<1	1.90	0.018	0.14	0.2	2.7	0.10	<0.02	<5	<0.1	0.02	4.8	1.06	<0.1	0.08	
071907	Soil	26.1	20.9	0.48	39.7	0.021	<1	1.44	0.005	0.07	0.2	1.7	0.06	<0.02	5	<0.1	<0.02	4.6	1.14	<0.1	0.05	
071908	Soil	30.2	19.7	0.49	46.5	0.024	1	1.73	0.023	0.15	0.2	2.7	0.11	<0.02	<5	<0.1	<0.02	4.3	0.94	<0.1	0.05	
071909	Soil	25.9	19.9	0.49	54.8	0.019	3	1.57	0.007	0.11	0.2	2.2	0.08	<0.02	9	<0.1	0.03	4.5	1.08	<0.1	0.02	
071910	Soil	28.1	22.0	0.66	18.2	0.002	1	1.53	0.004	0.03	<0.1	2.0	0.02	<0.02	12	<0.1	0.04	4.0	0.48	<0.1	0.05	
071911	Soil	31.6	25.4	0.66	32.3	0.001	<1	1.88	0.005	0.04	<0.1	2.4	0.03	<0.02	23	0.2	0.05	4.7	0.83	<0.1	0.09	
071912	Soil	23.3	20.8	0.65	17.7	0.003	2	1.49	0.005	0.04	0.2	2.0	0.03	<0.02	20	<0.1	0.05	4.2	0.53	<0.1	0.05	
071913	Soil	26.5	19.2	0.47	66.1	0.024	2	1.80	0.011	0.16	0.2	2.6	0.13	<0.02	19	0.2	<0.02	5.0	1.07	<0.1	0.08	
071914	Soil	26.3	19.9	0.47	65.6	0.016	2	1.87	0.008	0.14	0.2	2.4	0.10	<0.02	19	<0.1	0.03	4.6	0.98	<0.1	0.10	
071915	Soil	26.6	17.7	0.42	73.4	0.009	1	1.76	0.007	0.12	0.1	2.0	0.11	<0.02	9	<0.1	0.04	4.4	0.97	<0.1	0.07	
071916	Soil	29.4	19.9	0.45	63.5	0.009	2	1.70	0.006	0.11	0.1	1.9	0.08	<0.02	22	<0.1	0.02	4.7	0.81	<0.1	0.08	
071917	Soil	34.0	20.2	0.43	62.1	0.002	<1	1.66	0.005	0.08	0.1	2.0	0.07	<0.02	11	<0.1	0.03	4.9	0.79	<0.1	<0.02	
071918	Soil	29.3	16.2	0.42	37.2	0.007	<1	1.37	0.007	0.08	0.1	2.6	0.06	<0.02	10	<0.1	0.02	3.8	0.61	0.1	0.03	
071919	Soil	28.4	16.6	0.42	42.8	0.005	<1	1.41	0.004	0.08	0.1	1.5	0.06	<0.02	<5	<0.1	0.03	4.3	0.73	<0.1	0.03	
071920	Soil	29.0	19.4	0.44	47.9	0.006	1	1.53	0.006	0.06	0.1	1.6	0.06	<0.02	13	<0.1	0.04	4.4	0.84	<0.1	0.03	
073971	Soil	37.3	23.8	0.72	20.9	0.002	<1	1.76	0.003	0.04	<0.1	2.2	0.03	<0.02	8	<0.1	0.02	4.9	1.00	<0.1	0.04	
073972	Soil	22.5	29.4	0.75	24.0	0.002	<1	1.89	0.004	0.04	<0.1	2.6	0.04	<0.02	23	0.1	<0.02	5.3	1.27	<0.1	0.06	
073973	Soil	30.7	25.4	0.66	33.3	0.005	<1	2.01	0.003	0.05	<0.1	1.6	0.05	<0.02	31	0.1	0.02	5.7	1.14	<0.1	0.09	
073974	Soil	17.9	15.3	0.44	25.9	0.007	1	1.36	0.009	0.03	<0.1	0.9	<0.02	<0.02	27	0.2	<0.02	4.5	0.72	<0.1	0.09	
073975	Soil	29.4	24.3	0.85	17.1	0.002	<1	2.08	0.002	0.03	<0.1	1.4	0.03	<0.02	14	0.1	0.02	5.9	1.01	<0.1	0.07	
073976	Soil	17.9	11.0	0.09	28.3	0.004	<1	0.63	0.009	0.05	0.7	1.3	0.24	<0.02	45	<0.1	0.06	2.8	1.27	<0.1	<0.02	
073977	Soil	19.4	11.2	0.05	16.7	0.003	<1	0.44	0.004	0.04	0.5	0.9	0.26	<0.02	23	<0.1	0.06	2.8	1.36	<0.1	<0.02	
073978	Soil	12.3	24.5	0.67	48.4	0.002	<1	1.65	0.007	0.04	<0.1	2.1	0.11	0.05	35	0.7	0.06	4.4	2.00	<0.1	0.08	
073979	Soil	32.4	30.6	0.88	31.3	0.002	<1	2.26	0.005	0.05	<0.1	1.4	0.04	<0.02	10	0.2	0.08	7.3	0.97	<0.1	0.03	



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000272.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
071580	Soil	0.30	6.4	0.4	<0.05	2.3	8.10	60.5	<0.02	<1	0.6	50.4	<10	<2
071901	Soil	0.29	5.6	0.6	<0.05	3.2	5.05	25.3	0.02	<1	0.5	45.2	<10	<2
071902	Soil	0.13	4.8	0.2	<0.05	2.0	4.55	44.4	0.03	<1	0.5	51.6	<10	<2
071903	Soil	0.24	4.7	0.3	<0.05	3.1	5.42	34.8	<0.02	<1	0.2	52.2	<10	<2
071904	Soil	0.12	4.7	0.2	<0.05	3.7	6.42	48.0	0.02	<1	0.2	51.4	<10	<2
071905	Soil	0.13	3.6	0.3	<0.05	3.0	6.34	46.7	<0.02	<1	0.4	50.7	<10	<2
071906	Soil	0.45	12.9	0.5	<0.05	3.9	3.56	56.0	0.02	<1	0.5	33.5	<10	<2
071907	Soil	0.79	17.6	0.5	<0.05	2.6	2.31	50.3	<0.02	<1	0.3	32.0	<10	<2
071908	Soil	0.56	11.3	0.6	<0.05	3.0	4.07	60.1	<0.02	<1	0.3	30.8	<10	<2
071909	Soil	0.91	14.2	0.8	<0.05	1.2	3.20	53.0	<0.02	<1	0.4	34.6	<10	<2
071910	Soil	0.11	2.6	0.3	<0.05	3.0	5.19	53.2	<0.02	<1	0.3	47.3	<10	<2
071911	Soil	0.12	4.2	0.8	<0.05	3.8	6.75	60.5	0.03	<1	0.5	55.1	<10	<2
071912	Soil	0.13	3.0	0.3	<0.05	3.1	4.89	46.4	0.02	<1	0.3	48.0	<10	<2
071913	Soil	0.55	15.0	1.0	<0.05	4.3	4.22	52.4	0.03	<1	0.6	30.8	<10	<2
071914	Soil	0.66	13.1	0.6	<0.05	4.1	3.64	52.7	0.02	<1	0.6	33.8	<10	<2
071915	Soil	0.52	12.5	0.5	<0.05	3.4	3.29	51.5	<0.02	<1	0.5	33.2	<10	<2
071916	Soil	0.44	11.4	0.4	<0.05	3.8	3.22	55.4	<0.02	<1	0.7	36.2	<10	2
071917	Soil	0.19	8.9	1.0	<0.05	1.5	4.02	63.8	0.02	<1	0.9	43.0	<10	3
071918	Soil	0.36	9.3	0.6	<0.05	2.2	6.98	55.9	<0.02	<1	0.5	35.1	<10	<2
071919	Soil	0.38	10.3	0.7	<0.05	2.2	2.34	53.3	<0.02	1	0.3	40.3	<10	2
071920	Soil	0.35	9.0	0.5	<0.05	1.8	3.92	56.4	0.03	<1	0.6	45.7	<10	4
073971	Soil	<0.02	2.4	0.8	<0.05	3.7	7.05	68.1	<0.02	<1	0.6	52.8	<10	<2
073972	Soil	0.05	4.2	1.0	<0.05	2.7	8.09	41.4	<0.02	<1	0.6	50.6	<10	<2
073973	Soil	0.24	6.5	0.9	<0.05	2.9	4.20	56.4	0.02	1	0.3	50.5	<10	<2
073974	Soil	0.15	3.7	0.4	<0.05	1.9	2.90	31.4	<0.02	<1	0.4	32.9	<10	<2
073975	Soil	0.03	2.9	0.6	<0.05	3.1	4.70	54.7	<0.02	<1	0.5	64.8	<10	2
073976	Soil	0.16	4.9	0.7	<0.05	0.8	1.87	32.8	<0.02	<1	0.2	6.7	<10	<2
073977	Soil	0.16	6.2	3.2	<0.05	0.2	1.50	35.1	0.05	<1	<0.1	2.5	<10	<2
073978	Soil	0.22	6.9	0.5	<0.05	3.0	5.08	21.4	0.03	1	0.4	44.5	<10	<2
073979	Soil	0.15	6.2	0.8	<0.05	1.7	1.64	58.2	<0.02	<1	0.1	60.8	<10	<2



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000272.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
073980	Soil	0.24	17.69	14.61	31.7	171	14.8	5.9	254	1.86	8.5	0.6	<0.2	1.8	12.2	0.08	0.21	0.21	11	0.24	0.060
073981	Soil	0.46	26.25	98.24	76.4	150	21.1	6.8	162	2.24	28.8	1.7	3.7	1.4	15.6	3.07	0.53	0.23	10	0.24	0.051
073982	Soil	0.33	13.45	68.12	54.6	83	12.5	3.6	91	1.53	17.7	1.0	1.8	1.5	14.9	1.90	0.32	0.16	9	0.22	0.041
073983	Soil	0.78	43.85	31.84	101.3	110	40.3	18.0	673	4.52	20.6	4.6	0.9	9.3	19.9	0.09	0.50	0.64	14	0.34	0.054
073984	Soil	0.77	20.71	48.65	73.1	512	19.5	7.5	172	3.81	60.1	0.7	295.1	7.8	5.6	0.47	0.98	0.40	19	0.01	0.071
073985	Soil	1.70	50.28	40.55	103.8	53	39.2	19.1	847	4.62	37.3	2.9	3.2	9.9	28.0	0.09	1.43	0.66	11	0.38	0.041
073986	Soil	1.96	49.91	56.68	88.4	105	24.1	7.6	216	4.92	37.3	1.4	4.7	9.2	10.4	0.04	2.51	0.61	10	0.10	0.043
073987	Soil	0.73	67.49	56.53	118.9	105	57.4	32.8	1350	5.18	36.6	1.2	1.6	15.4	18.8	0.09	1.22	0.83	14	0.44	0.037
073988	Soil	1.08	62.36	46.11	114.5	112	44.0	23.4	965	4.70	41.9	3.3	4.4	11.3	18.5	0.23	1.84	0.72	10	0.31	0.045
073989	Soil	1.38	37.14	33.90	96.6	35	38.3	17.3	551	4.28	34.4	5.2	1.7	8.3	16.8	0.10	0.65	0.58	13	0.18	0.047
073990	Soil	0.82	24.62	76.14	108.5	123	28.6	14.5	696	4.11	44.5	1.0	3.4	6.9	23.7	0.69	0.82	0.50	17	0.26	0.048
073991	Soil	0.41	30.10	36.41	104.6	28	43.3	15.5	555	4.39	19.5	1.1	1.4	10.4	6.6	0.40	0.50	0.41	16	0.05	0.043
073992	Soil	0.52	43.07	37.71	85.5	190	29.8	11.9	591	2.69	21.9	4.7	2.3	3.3	57.4	0.86	0.61	0.36	10	1.39	0.057
073993	Soil	0.52	37.06	25.68	89.9	160	37.3	15.4	907	3.59	19.9	2.2	3.1	7.5	41.1	0.16	0.46	0.39	14	0.68	0.056
073994	Soil	0.48	44.88	49.70	134.4	108	56.4	27.8	815	3.95	61.2	2.5	43.4	10.9	21.7	0.68	0.81	0.42	14	0.28	0.059
073995	Soil	0.46	13.80	16.91	67.9	28	20.7	6.9	198	3.08	112.6	0.4	15.4	6.9	6.2	0.23	0.58	0.42	18	0.01	0.032
073996	Soil	0.55	35.33	60.54	213.7	219	54.4	16.4	468	3.57	333.8	2.4	27.4	9.5	29.0	1.63	0.90	0.50	11	0.30	0.052
073997	Soil	0.55	30.28	41.13	112.7	49	29.3	11.5	270	3.09	81.0	1.2	34.4	8.5	17.5	0.35	0.92	0.36	10	0.02	0.038
073998	Soil	0.58	27.62	49.57	90.0	99	26.0	12.1	716	3.02	65.8	1.1	14.5	3.4	9.7	0.41	0.78	0.42	14	0.03	0.056
073999	Soil	0.48	32.15	32.50	100.7	99	36.8	16.3	492	3.55	46.1	1.2	3.2	10.9	16.0	0.19	0.65	0.72	12	0.07	0.045
074000	Soil	0.59	42.45	29.27	100.3	183	38.5	16.2	456	3.79	51.0	1.4	3.6	10.2	11.6	0.12	0.73	0.69	13	0.07	0.042
071751	Soil	0.59	27.98	50.34	109.1	140	30.4	13.9	447	3.45	133.5	2.3	13.5	8.6	35.3	0.98	0.73	0.73	13	0.41	0.046
071752	Soil	0.47	37.27	35.75	99.1	119	38.2	13.6	490	3.41	77.7	3.4	7.0	7.4	46.4	0.32	0.72	0.55	13	0.70	0.049
071753	Soil	0.48	35.49	37.98	95.0	124	36.8	16.6	628	3.69	105.5	2.6	8.8	9.4	27.3	0.26	0.61	0.61	14	0.33	0.042
071754	Soil	0.46	35.50	38.76	104.6	119	37.4	15.8	480	3.67	121.0	1.9	10.1	10.6	25.4	0.26	0.63	0.68	13	0.29	0.040
071755	Soil	0.47	30.22	37.01	97.3	111	34.2	14.6	486	3.65	98.3	2.0	10.3	10.9	22.2	0.21	0.58	0.73	15	0.23	0.042
071756	Soil	0.48	37.34	40.20	94.0	106	37.0	15.5	521	3.66	111.1	2.8	9.1	9.5	36.4	0.25	0.62	0.64	14	0.49	0.046
071757	Soil	0.61	35.73	45.90	102.6	128	40.7	15.7	430	4.39	181.3	3.5	8.3	11.1	21.5	0.23	0.65	0.63	15	0.23	0.045
071758	Soil	0.56	35.20	48.90	108.1	130	38.1	16.6	341	3.95	162.7	1.9	11.4	12.2	14.9	0.31	0.87	0.70	13	0.11	0.037
071759	Soil	0.44	26.44	40.18	110.4	161	34.8	14.3	522	3.58	130.8	1.4	20.9	10.0	18.4	0.43	0.77	0.69	13	0.15	0.035



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000272.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
073980	Soil	11.0	12.5	0.28	32.1	0.003	1	0.96	0.022	0.04	<0.1	0.8	0.04	<0.02	22	<0.1	0.04	3.9	0.81	<0.1	0.04
073981	Soil	9.1	13.1	0.27	17.1	0.006	1	0.92	0.014	0.03	0.2	0.8	0.22	0.03	30	0.2	0.04	3.5	2.18	<0.1	<0.02
073982	Soil	6.3	9.7	0.18	18.1	0.005	2	0.59	0.017	0.03	0.2	0.7	0.15	0.03	31	0.1	<0.02	2.3	1.28	<0.1	<0.02
073983	Soil	17.2	31.7	0.86	49.3	0.001	1	2.26	0.005	0.05	<0.1	2.5	0.05	0.02	17	0.4	0.10	6.8	3.01	<0.1	0.11
073984	Soil	24.8	16.6	0.17	27.8	0.004	<1	0.92	0.005	0.04	0.2	1.1	0.15	<0.02	24	0.1	0.06	6.0	1.03	<0.1	<0.02
073985	Soil	18.9	23.7	0.72	34.7	0.001	<1	1.61	0.004	0.04	<0.1	2.6	0.05	0.03	34	0.4	0.12	4.8	1.55	<0.1	0.07
073986	Soil	18.8	20.8	0.48	20.6	<0.001	2	1.30	0.003	0.04	<0.1	1.5	0.07	<0.02	38	0.8	0.10	4.0	2.00	<0.1	0.02
073987	Soil	27.8	30.7	0.95	29.6	0.002	<1	2.26	0.006	0.05	<0.1	5.4	0.04	<0.02	44	0.4	0.14	6.3	2.39	<0.1	0.12
073988	Soil	15.0	19.5	0.57	28.1	<0.001	<1	1.46	0.005	0.04	<0.1	3.2	0.04	0.03	36	0.6	0.12	4.2	2.27	<0.1	0.08
073989	Soil	19.6	27.7	0.82	38.3	0.001	1	1.97	0.005	0.05	<0.1	2.4	0.04	0.02	29	0.4	0.08	6.0	1.22	<0.1	0.12
073990	Soil	18.2	22.6	0.52	72.5	0.004	<1	1.52	0.004	0.06	0.2	1.5	0.27	0.02	63	0.2	0.08	5.7	1.72	<0.1	0.03
073991	Soil	29.3	30.9	0.90	39.2	0.001	<1	2.18	0.004	0.06	<0.1	1.9	0.08	<0.02	16	0.2	0.05	6.6	1.20	0.1	0.04
073992	Soil	8.6	19.2	0.59	62.1	0.003	3	1.55	0.010	0.05	<0.1	1.8	0.14	0.06	69	0.6	0.03	4.3	1.46	<0.1	0.10
073993	Soil	17.0	26.8	0.80	76.2	0.002	1	2.05	0.010	0.09	<0.1	2.2	0.06	0.02	33	0.3	0.05	6.0	1.39	<0.1	0.08
073994	Soil	24.7	26.4	0.78	35.7	0.002	<1	1.88	0.006	0.05	0.1	2.3	0.09	<0.02	34	0.4	0.08	5.1	1.34	<0.1	0.08
073995	Soil	27.7	18.1	0.36	16.7	0.002	<1	1.23	0.003	0.03	0.2	1.1	0.09	<0.02	7	0.2	0.06	6.4	1.37	<0.1	<0.02
073996	Soil	12.2	21.7	0.47	48.1	0.002	1	1.40	0.008	0.08	0.3	2.2	0.31	0.03	132	0.6	0.06	3.8	8.08	<0.1	0.08
073997	Soil	20.6	13.0	0.12	29.3	0.002	2	0.58	0.004	0.06	0.4	1.3	0.26	<0.02	35	<0.1	0.07	2.8	2.11	<0.1	<0.02
073998	Soil	20.0	14.9	0.19	28.3	0.008	<1	0.84	0.007	0.04	0.3	0.9	0.10	<0.02	31	0.3	0.05	3.1	1.66	<0.1	<0.02
073999	Soil	21.6	19.1	0.38	53.5	0.003	<1	1.15	0.006	0.08	0.3	1.7	0.08	<0.02	24	<0.1	0.06	3.8	2.47	<0.1	0.05
074000	Soil	26.3	19.6	0.37	38.4	0.003	<1	1.12	0.005	0.07	0.3	1.6	0.07	<0.02	20	0.3	0.06	3.8	1.62	<0.1	<0.02
071751	Soil	17.4	21.4	0.45	62.3	0.002	<1	1.47	0.007	0.08	0.2	1.8	0.10	0.03	42	0.4	0.09	4.1	1.89	<0.1	0.06
071752	Soil	14.5	26.0	0.70	65.4	0.002	<1	1.79	0.008	0.08	0.1	2.1	0.09	0.04	34	0.6	0.05	4.8	1.65	<0.1	0.11
071753	Soil	21.3	25.8	0.67	64.4	0.002	2	1.81	0.006	0.08	0.2	1.9	0.07	0.02	30	0.4	0.05	4.8	1.18	<0.1	0.09
071754	Soil	22.5	25.9	0.58	58.2	0.002	<1	1.64	0.006	0.09	0.2	2.1	0.06	<0.02	20	0.4	0.05	4.6	1.18	<0.1	0.09
071755	Soil	26.7	25.2	0.60	71.2	0.003	1	1.78	0.007	0.09	0.2	2.2	0.07	<0.02	25	0.3	0.06	5.0	1.38	<0.1	0.07
071756	Soil	20.1	27.1	0.66	70.0	0.002	<1	1.84	0.007	0.08	0.1	2.2	0.07	0.03	28	0.5	0.05	4.8	1.44	<0.1	0.08
071757	Soil	24.9	27.6	0.68	54.0	0.002	<1	1.80	0.005	0.06	0.1	2.2	0.06	<0.02	24	0.2	0.04	4.7	1.28	<0.1	0.08
071758	Soil	27.7	23.1	0.48	54.0	0.002	<1	1.50	0.005	0.08	0.2	2.1	0.07	<0.02	26	0.3	0.05	4.0	1.41	<0.1	0.07
071759	Soil	24.6	21.1	0.48	56.7	0.002	<1	1.52	0.006	0.09	0.2	1.7	0.09	<0.02	20	0.3	0.06	4.1	1.71	<0.1	0.03



Bureau Veritas Commodities Canada Ltd.

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**Client:** Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

**Project:** None Given  
**Report Date:** September 23, 2016

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**Part:** 3 of 3

# CERTIFICATE OF ANALYSIS

WHI16000272.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
073980	Soil	0.10	4.1	0.7	<0.05	1.3	2.11	18.9	<0.02	<1	0.3	20.0	<10	<2
073981	Soil	0.26	4.8	0.3	<0.05	1.4	1.58	16.2	<0.02	<1	0.2	19.6	<10	3
073982	Soil	0.20	3.2	0.3	<0.05	0.6	0.83	10.9	<0.02	<1	0.2	11.9	<10	<2
073983	Soil	0.10	7.6	0.9	<0.05	3.0	4.53	28.7	0.02	<1	0.7	68.1	<10	<2
073984	Soil	0.37	7.4	0.8	<0.05	0.5	1.44	45.0	0.02	<1	0.2	12.5	<10	<2
073985	Soil	0.02	4.0	0.8	<0.05	3.3	3.93	30.7	<0.02	<1	0.4	46.3	<10	<2
073986	Soil	0.02	4.1	0.7	<0.05	2.0	1.38	29.4	0.03	<1	0.5	33.4	<10	2
073987	Soil	<0.02	3.3	0.6	<0.05	8.2	13.39	43.9	0.03	<1	0.6	68.3	<10	3
073988	Soil	0.04	4.4	0.3	<0.05	3.2	6.31	25.3	0.04	<1	0.7	41.2	<10	<2
073989	Soil	0.09	3.8	0.4	<0.05	4.6	5.13	33.8	0.02	<1	0.4	55.0	<10	<2
073990	Soil	0.33	9.3	0.5	<0.05	1.0	2.02	32.8	0.03	<1	0.4	43.4	<10	<2
073991	Soil	0.07	6.9	0.4	<0.05	2.2	2.72	51.6	0.03	<1	0.4	64.2	<10	<2
073992	Soil	0.25	5.6	0.5	<0.05	3.4	4.60	14.8	<0.02	<1	0.3	39.9	<10	<2
073993	Soil	0.14	7.2	0.6	<0.05	3.0	4.38	31.0	<0.02	<1	0.6	54.6	<10	2
073994	Soil	0.08	4.7	0.5	<0.05	2.9	5.90	42.9	0.02	<1	0.5	58.2	<10	<2
073995	Soil	0.18	7.2	0.6	<0.05	0.7	1.29	48.2	<0.02	<1	0.4	26.2	<10	<2
073996	Soil	0.13	9.7	0.9	<0.05	2.9	4.55	20.9	0.03	<1	0.6	31.4	<10	<2
073997	Soil	0.07	8.4	0.6	<0.05	0.2	1.91	35.5	0.02	<1	0.3	7.7	<10	<2
073998	Soil	0.25	6.1	1.2	<0.05	0.4	1.76	36.0	0.03	<1	0.2	14.6	<10	<2
073999	Soil	0.27	8.5	0.8	<0.05	1.5	5.01	37.0	0.03	<1	0.6	26.3	<10	<2
074000	Soil	0.17	7.3	0.9	<0.05	0.5	3.63	45.2	0.03	<1	0.8	26.8	<10	<2
071751	Soil	0.22	8.1	0.5	<0.05	2.2	3.68	30.3	0.02	<1	0.4	36.6	<10	<2
071752	Soil	0.21	7.2	0.5	<0.05	3.6	4.22	25.5	0.02	<1	0.6	48.8	<10	<2
071753	Soil	0.17	6.5	0.6	<0.05	2.8	4.23	37.1	0.02	<1	0.3	49.0	<10	<2
071754	Soil	0.14	6.7	1.1	<0.05	2.7	4.03	39.8	0.03	<1	0.3	43.7	<10	<2
071755	Soil	0.20	7.6	0.4	<0.05	3.1	4.27	47.2	0.03	<1	0.6	46.8	<10	<2
071756	Soil	0.20	7.2	0.4	<0.05	3.1	4.71	34.7	0.02	1	0.5	50.3	<10	<2
071757	Soil	0.18	6.0	0.5	<0.05	3.0	4.97	43.7	<0.02	<1	0.4	49.1	<10	<2
071758	Soil	0.14	6.8	1.0	<0.05	2.3	5.00	49.0	0.02	<1	0.3	40.5	<10	<2
071759	Soil	0.13	9.0	0.6	<0.05	1.6	3.55	43.6	0.03	<1	0.3	40.8	<10	<2



Bureau Veritas Commodities Canada Ltd.

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**Project:** None Given  
**Report Date:** September 23, 2016

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**Part:** 1 of 3

# CERTIFICATE OF ANALYSIS

WHI16000272.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
071760	Soil	0.47	33.14	42.03	105.9	160	38.8	15.7	532	3.78	117.0	1.4	10.2	11.4	19.7	0.34	0.82	0.65	13	0.15	0.035
071641	Soil	0.58	7.33	9.24	21.1	46	6.4	2.6	53	0.95	45.7	0.5	1.6	6.8	5.2	0.04	0.37	0.28	16	0.01	0.015
071642	Soil	0.41	28.48	31.83	82.4	244	32.2	10.9	459	3.06	350.8	1.3	11.9	7.2	16.6	0.40	0.58	1.03	12	0.04	0.045
071643	Soil	0.53	34.89	30.13	107.7	86	35.9	14.1	440	3.99	262.7	1.0	42.7	8.8	10.0	0.18	0.90	0.81	14	0.03	0.025
071644	Soil	0.37	27.91	36.00	115.6	169	34.6	13.6	568	3.12	510.9	1.5	35.8	8.0	33.2	0.56	0.71	1.07	12	0.17	0.043
071645	Soil	0.54	36.65	45.04	133.1	281	38.8	18.1	813	3.53	637.0	1.7	15.4	7.7	27.6	0.44	0.92	1.36	13	0.17	0.052
071646	Soil	0.38	33.35	30.39	89.8	34	32.0	11.4	360	3.74	123.5	0.9	19.2	10.2	7.5	0.15	0.65	0.60	15	0.01	0.029
071647	Soil	0.62	23.88	23.84	73.2	90	23.2	9.4	255	4.74	154.5	0.6	6.5	8.2	5.6	0.13	0.76	0.74	20	<0.01	0.044
071648	Soil	0.51	21.45	24.24	63.6	45	21.8	8.5	241	3.77	105.8	0.6	11.1	8.0	6.2	0.16	0.64	0.55	20	0.02	0.026
071649	Soil	0.92	66.04	48.96	124.6	341	40.7	26.2	1004	4.07	143.1	3.0	8.6	10.0	28.1	0.33	0.81	0.83	16	0.39	0.055
071650	Soil	0.36	26.11	28.79	80.9	86	28.8	13.1	419	3.71	7.6	1.3	0.3	10.2	40.4	0.09	0.23	0.41	15	0.40	0.028
072151	Soil	0.23	28.54	18.17	49.1	75	23.7	10.4	395	2.19	14.0	1.2	2.0	5.2	64.9	0.08	0.31	0.28	9	0.82	0.047
072152	Soil	0.74	12.20	14.30	52.0	29	14.1	6.9	158	3.71	125.4	0.6	0.4	8.4	4.6	0.04	0.54	0.51	31	0.02	0.027
072153	Soil	0.54	17.56	22.19	78.8	37	22.1	9.5	255	3.82	42.7	0.7	0.8	8.4	5.5	0.11	0.52	0.42	19	0.02	0.032
072154	Soil	0.28	16.22	14.54	7.9	112	8.1	2.9	130	0.89	6.1	1.6	0.3	0.6	97.4	0.10	0.16	0.17	11	1.06	0.039
072155	Soil	0.48	30.07	29.97	70.1	115	29.7	13.3	755	3.54	42.2	4.6	3.4	4.4	71.3	0.15	0.94	0.43	15	0.83	0.055
072156	Soil	0.44	12.40	15.24	66.3	12	21.3	11.2	258	3.02	20.9	0.5	0.7	6.7	14.1	0.03	0.29	0.30	20	0.09	0.014
072157	Soil	0.56	12.29	17.85	76.8	27	19.8	10.4	164	3.00	4.4	0.6	22.5	9.6	25.3	0.05	0.17	0.31	19	0.16	0.015
072158	Soil	0.43	8.04	15.90	57.6	16	13.1	9.9	543	2.45	7.0	0.7	<0.2	5.9	31.0	0.11	0.26	0.35	17	0.32	0.021
072159	Soil	0.36	34.50	33.23	89.1	62	31.7	25.3	466	3.48	13.4	3.2	0.6	5.9	113.0	0.08	0.32	0.51	12	0.56	0.054



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**Client:** Golden Predator Mining Corp.  
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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000272.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf		
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	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	MDL
071760	Soil	28.6	23.5	0.49	68.9	0.002	<1	1.67	0.006	0.11	0.2	1.9	0.08	0.02	23	0.2	0.04	4.4	1.56	<0.1	0.02		
071641	Soil	35.8	7.3	0.03	16.0	0.005	<1	0.56	0.004	0.03	0.2	0.7	0.06	<0.02	16	<0.1	0.03	4.2	0.77	<0.1	<0.02		
071642	Soil	18.8	18.7	0.31	66.5	0.002	<1	1.36	0.008	0.08	0.4	1.7	0.14	0.02	41	0.3	0.04	3.9	2.33	<0.1	0.03		
071643	Soil	25.7	23.3	0.49	37.2	0.002	1	1.44	0.003	0.06	0.3	1.7	0.07	<0.02	13	0.2	0.09	4.2	1.41	<0.1	<0.02		
071644	Soil	16.4	17.6	0.35	64.4	0.002	<1	1.29	0.006	0.07	0.5	2.0	0.15	0.03	38	0.3	0.06	3.6	2.14	<0.1	0.05		
071645	Soil	16.1	20.1	0.35	79.1	0.002	<1	1.46	0.008	0.10	0.3	2.0	0.16	0.03	43	0.2	0.08	4.2	2.74	<0.1	0.04		
071646	Soil	37.9	26.0	0.49	37.3	0.003	<1	1.62	0.004	0.07	0.2	1.7	0.06	<0.02	14	0.1	0.05	5.0	1.26	<0.1	<0.02		
071647	Soil	29.3	24.8	0.34	32.4	0.005	<1	1.40	0.004	0.05	0.3	1.4	0.06	<0.02	13	<0.1	0.05	6.3	1.18	<0.1	0.02		
071648	Soil	30.8	20.9	0.31	34.1	0.005	<1	1.33	0.005	0.06	0.3	1.3	0.05	<0.02	14	0.2	0.05	5.4	0.89	<0.1	0.03		
071649	Soil	19.6	26.2	0.52	132.3	0.002	<1	1.96	0.008	0.10	0.3	2.6	0.09	0.02	30	0.5	0.09	5.0	3.45	<0.1	0.09		
071650	Soil	27.3	22.8	0.40	43.8	0.002	<1	1.84	0.004	0.05	<0.1	3.6	0.09	<0.02	17	<0.1	0.02	5.3	1.26	<0.1	0.02		
072151	Soil	22.4	14.1	0.35	42.2	0.006	<1	1.07	0.015	0.04	<0.1	2.3	0.03	0.03	26	0.3	0.02	2.9	0.37	<0.1	0.04		
072152	Soil	30.7	15.0	0.23	21.8	0.016	<1	1.05	0.002	0.03	0.4	1.0	0.07	<0.02	10	<0.1	0.06	6.4	0.77	<0.1	0.04		
072153	Soil	28.9	21.3	0.40	32.7	0.011	<1	1.37	0.004	0.04	0.3	1.4	0.05	<0.02	8	<0.1	0.05	4.8	1.09	<0.1	0.09		
072154	Soil	9.5	5.1	0.03	55.1	0.009	<1	0.62	0.019	0.02	0.1	0.7	0.04	0.04	22	0.2	0.02	2.4	0.29	<0.1	<0.02		
072155	Soil	25.8	21.5	0.46	68.9	0.011	<1	1.44	0.007	0.05	0.2	3.2	0.06	0.03	33	0.7	0.05	3.9	1.08	<0.1	0.03		
072156	Soil	24.2	20.5	0.40	54.6	0.009	<1	1.44	0.004	0.03	0.2	1.6	0.06	<0.02	8	<0.1	0.04	4.7	0.83	<0.1	0.04		
072157	Soil	33.2	19.4	0.44	68.0	0.003	<1	1.81	0.005	0.04	<0.1	1.4	0.08	<0.02	<5	<0.1	0.03	5.9	1.06	<0.1	0.03		
072158	Soil	23.3	15.8	0.31	49.0	0.014	<1	1.14	0.008	0.05	0.1	1.5	0.06	<0.02	5	0.2	<0.02	4.0	1.19	<0.1	0.02		
072159	Soil	28.1	23.1	0.68	76.4	0.006	<1	1.78	0.010	0.06	0.2	2.0	0.03	0.09	15	0.2	0.03	4.8	1.49	<0.1	0.06		



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000272.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
071760	Soil	0.15	8.9	0.9	<0.05	1.3	4.92	49.9	0.02	<1	0.5	39.4	<10	<2
071641	Soil	0.26	4.3	1.1	<0.05	0.4	1.64	63.1	<0.02	<1	0.1	1.5	<10	<2
071642	Soil	0.18	10.6	0.9	<0.05	1.2	4.42	32.2	0.03	<1	0.3	32.9	<10	<2
071643	Soil	0.09	7.2	0.7	<0.05	0.7	2.50	45.4	0.02	<1	0.7	42.0	<10	<2
071644	Soil	0.18	9.6	0.5	<0.05	1.5	4.68	28.4	<0.02	<1	0.2	31.1	<10	<2
071645	Soil	0.22	12.3	0.6	<0.05	1.5	4.85	27.8	0.03	<1	0.3	34.0	<10	<2
071646	Soil	0.21	7.0	0.6	<0.05	1.2	2.44	66.1	0.02	<1	0.2	41.6	<10	<2
071647	Soil	0.47	8.1	0.8	<0.05	1.9	1.78	50.7	0.02	<1	0.3	25.2	<10	<2
071648	Soil	0.41	7.1	0.8	<0.05	1.4	1.69	53.7	<0.02	<1	0.3	23.5	<10	<2
071649	Soil	0.26	11.1	0.8	<0.05	2.8	5.89	35.7	0.03	<1	0.7	44.0	<10	<2
071650	Soil	0.29	9.4	1.0	<0.05	1.2	8.48	49.7	0.04	<1	0.6	63.6	<10	<2
072151	Soil	0.42	3.3	0.4	<0.05	1.5	8.81	39.4	<0.02	<1	0.2	29.5	<10	<2
072152	Soil	0.87	6.8	1.1	<0.05	2.5	1.97	54.2	<0.02	<1	0.2	17.0	<10	<2
072153	Soil	0.48	8.7	0.5	<0.05	3.7	2.30	52.1	0.03	<1	0.3	37.9	<10	<2
072154	Soil	0.54	1.9	0.8	<0.05	0.7	2.80	16.6	<0.02	<1	0.2	3.1	<10	<2
072155	Soil	0.75	8.5	0.7	<0.05	1.0	11.02	45.6	<0.02	<1	0.7	45.2	<10	<2
072156	Soil	0.54	8.5	0.9	<0.05	2.3	2.27	45.2	<0.02	<1	0.2	35.4	<10	<2
072157	Soil	0.28	10.0	0.8	<0.05	2.2	2.38	60.2	0.02	<1	0.3	47.2	<10	<2
072158	Soil	1.00	14.2	0.8	<0.05	1.1	2.27	43.4	0.02	<1	0.2	42.6	<10	<2
072159	Soil	0.30	7.6	0.5	<0.05	1.4	3.82	49.4	<0.02	<1	0.3	49.0	<10	<2



QUALITY CONTROL REPORT

WHI16000272.1

Table with columns: Method, Analyte, Unit, MDL, and 20 Analyte columns (Mo, Cu, Pb, Zn, Ag, Ni, Co, Mn, Fe, As, U, Au, Th, Sr, Cd, Sb, Bi, V, Ca, P). Rows include Pulp Duplicates, various soil and QC samples, and Reference Materials (STD DS10).



Bureau Veritas Commodities Canada Ltd.  
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**Client:** Golden Predator Mining Corp.  
510 - 580 Hornby Street  
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**Project:** None Given  
**Report Date:** September 23, 2016

**Page:** 1 of 2 **Part:** 2 of 3

# QUALITY CONTROL REPORT

WHI16000272.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
Pulp Duplicates																					
073584	Soil	22.1	14.3	0.28	34.1	0.011	<1	1.16	0.006	0.05	0.3	1.3	0.06	<0.02	19	0.2	0.04	4.0	0.91	<0.1	<0.02
REP 073584	QC	23.4	14.8	0.29	34.0	0.011	<1	1.17	0.005	0.05	0.3	1.2	0.06	<0.02	14	0.2	0.02	4.2	0.94	<0.1	<0.02
073519	Soil	40.0	23.8	0.72	37.4	0.002	<1	1.97	0.003	0.04	<0.1	1.7	0.03	0.02	34	<0.1	0.04	5.1	2.12	<0.1	0.16
REP 073519	QC	40.7	24.4	0.72	39.1	0.001	<1	1.97	0.003	0.04	<0.1	1.6	0.03	0.02	10	0.6	0.03	5.5	2.21	<0.1	0.10
073785	Soil	19.5	22.3	0.62	103.9	0.002	<1	1.60	0.004	0.05	<0.1	2.2	0.04	0.02	14	0.3	0.05	4.7	0.51	<0.1	0.10
REP 073785	QC	19.4	20.4	0.61	101.3	0.002	<1	1.58	0.004	0.05	<0.1	2.1	0.05	0.02	18	0.3	0.03	5.3	0.47	<0.1	0.06
073821	Soil	22.2	18.3	0.56	33.1	0.002	<1	1.57	0.004	0.05	<0.1	1.8	0.03	0.02	18	0.3	<0.02	4.0	0.50	<0.1	0.06
REP 073821	QC	22.5	18.9	0.56	31.2	0.002	<1	1.59	0.004	0.05	<0.1	1.8	0.03	0.02	25	0.2	0.03	4.2	0.50	<0.1	0.09
072937	Soil	25.9	19.4	0.35	79.6	0.008	2	1.43	0.012	0.09	0.1	3.2	0.08	0.07	46	1.4	0.06	4.3	1.85	<0.1	0.07
REP 072937	QC	26.2	19.6	0.36	81.8	0.008	2	1.44	0.012	0.09	<0.1	3.3	0.08	0.07	55	1.7	0.02	4.6	1.81	<0.1	0.03
071783	Soil	18.1	17.0	0.25	49.4	0.013	<1	1.53	0.006	0.03	0.2	1.7	0.05	<0.02	13	0.3	0.03	3.2	0.95	<0.1	0.03
REP 071783	QC	20.4	17.2	0.26	49.9	0.017	1	1.49	0.006	0.04	0.2	2.0	0.05	<0.02	23	0.4	0.03	3.3	1.06	<0.1	0.02
071569	Soil	28.4	23.8	0.56	61.9	0.003	1	1.72	0.007	0.11	0.2	2.5	0.08	<0.02	35	0.1	0.05	4.3	1.43	<0.1	0.03
REP 071569	QC	27.6	23.3	0.56	60.3	0.004	1	1.68	0.007	0.11	0.2	2.5	0.07	<0.02	23	0.1	0.05	4.3	1.39	<0.1	<0.02
073975	Soil	29.4	24.3	0.85	17.1	0.002	<1	2.08	0.002	0.03	<0.1	1.4	0.03	<0.02	14	0.1	0.02	5.9	1.01	<0.1	0.07
REP 073975	QC	29.0	23.4	0.85	17.9	0.001	<1	2.15	0.002	0.03	<0.1	1.5	0.02	<0.02	24	<0.1	<0.02	6.3	1.04	<0.1	0.09
071752	Soil	14.5	26.0	0.70	65.4	0.002	<1	1.79	0.008	0.08	0.1	2.1	0.09	0.04	34	0.6	0.05	4.8	1.65	<0.1	0.11
REP 071752	QC	14.2	25.7	0.69	63.6	0.002	2	1.75	0.007	0.08	0.1	2.0	0.09	0.04	34	0.5	0.05	4.7	1.54	<0.1	0.11
Reference Materials																					
STD DS10	Standard	19.0	56.7	0.80	394.0	0.086	8	1.13	0.079	0.35	3.5	3.3	5.59	0.29	312	2.1	5.36	4.8	2.70	0.1	0.05
STD DS10	Standard	18.6	58.0	0.79	362.6	0.082	6	1.10	0.076	0.34	3.3	3.2	5.25	0.28	286	2.0	5.18	4.5	2.64	<0.1	0.05
STD DS10	Standard	19.3	56.7	0.79	363.2	0.081	7	1.12	0.077	0.35	3.5	3.4	5.11	0.28	281	2.1	4.94	4.2	2.69	<0.1	0.06
STD DS10	Standard	18.3	57.2	0.78	364.3	0.081	7	1.09	0.076	0.34	3.6	3.0	5.16	0.28	297	2.5	5.23	3.9	2.74	<0.1	0.05
STD DS10	Standard	20.7	58.1	0.81	367.0	0.087	6	1.13	0.071	0.36	3.5	3.5	5.39	0.29	272	2.3	4.68	4.5	2.77	<0.1	0.06
STD DS10	Standard	18.5	57.9	0.81	359.7	0.087	6	1.08	0.073	0.35	3.6	3.1	5.38	0.28	305	2.2	5.01	4.9	2.78	0.1	0.04
STD DS10	Standard	19.5	56.6	0.78	383.1	0.082	8	1.08	0.076	0.35	3.6	2.9	5.36	0.29	289	2.5	4.86	4.2	2.71	<0.1	0.08
STD DS10	Standard	20.1	57.7	0.80	365.4	0.084	9	1.13	0.079	0.35	3.4	3.2	5.40	0.29	280	2.3	5.06	4.4	2.72	<0.1	0.07
STD DS10	Standard	20.3	60.1	0.78	358.9	0.091	7	1.08	0.071	0.34	3.6	2.8	5.16	0.28	266	2.4	5.09	4.4	2.77	<0.1	0.04



# QUALITY CONTROL REPORT

WHI16000272.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates														
073584	Soil	0.88	8.4	0.5	<0.05	0.8	1.76	43.7	0.02	<1	0.4	21.5	<10	<2
REP 073584	QC	0.88	8.3	0.5	<0.05	0.9	1.73	44.7	<0.02	<1	0.2	22.7	<10	<2
073519	Soil	0.09	4.1	0.8	<0.05	4.6	5.50	73.4	0.03	<1	0.8	56.5	<10	<2
REP 073519	QC	0.06	4.2	0.8	<0.05	5.0	5.66	75.8	<0.02	<1	0.2	56.9	<10	<2
073785	Soil	0.11	3.9	0.5	<0.05	2.4	6.57	39.2	0.03	<1	0.3	56.7	<10	<2
REP 073785	QC	0.07	3.7	0.5	<0.05	2.1	6.04	37.3	<0.02	1	0.5	54.5	<10	<2
073821	Soil	0.10	4.1	0.3	<0.05	3.2	6.81	41.9	0.02	<1	0.4	43.6	<10	<2
REP 073821	QC	0.10	4.4	0.3	<0.05	3.2	6.91	43.1	0.02	<1	0.5	44.6	<10	<2
072937	Soil	0.61	16.8	0.7	<0.05	1.8	18.42	40.7	0.02	<1	0.9	44.9	<10	<2
REP 072937	QC	0.64	17.0	0.4	<0.05	1.6	18.30	41.3	<0.02	<1	1.3	46.4	<10	<2
071783	Soil	0.78	7.6	0.3	<0.05	0.9	3.39	42.6	<0.02	<1	0.5	26.3	<10	<2
REP 071783	QC	0.84	8.3	0.3	<0.05	1.0	3.37	46.6	<0.02	<1	0.6	25.8	<10	<2
071569	Soil	0.17	8.4	0.4	<0.05	1.7	5.24	52.2	0.04	<1	0.9	45.3	<10	<2
REP 071569	QC	0.17	8.1	0.3	<0.05	2.0	5.32	50.7	<0.02	<1	0.3	41.8	<10	<2
073975	Soil	0.03	2.9	0.6	<0.05	3.1	4.70	54.7	<0.02	<1	0.5	64.8	<10	2
REP 073975	QC	0.03	3.0	0.7	<0.05	3.3	4.79	54.3	<0.02	<1	0.4	66.5	<10	3
071752	Soil	0.21	7.2	0.5	<0.05	3.6	4.22	25.5	0.02	<1	0.6	48.8	<10	<2
REP 071752	QC	0.21	6.9	0.5	<0.05	3.6	4.28	24.5	<0.02	<1	0.4	48.5	<10	<2
Reference Materials														
STD DS10	Standard	1.75	29.5	1.5	<0.05	2.8	8.84	39.6	0.26	58	0.3	20.2	90	207
STD DS10	Standard	1.51	29.0	1.7	<0.05	2.6	8.30	38.1	0.26	45	0.6	18.7	113	183
STD DS10	Standard	1.68	28.8	1.6	<0.05	2.6	8.47	38.9	0.24	44	0.6	19.3	103	169
STD DS10	Standard	1.79	28.1	1.5	<0.05	2.6	8.25	38.4	0.30	51	0.7	19.7	112	187
STD DS10	Standard	1.81	29.6	1.8	<0.05	2.9	8.66	41.2	0.27	45	0.3	20.0	100	199
STD DS10	Standard	1.65	29.7	1.7	<0.05	2.4	8.50	36.9	0.24	48	0.7	19.5	109	184
STD DS10	Standard	1.74	28.8	1.7	<0.05	2.7	8.41	38.9	0.23	56	0.9	18.6	109	185
STD DS10	Standard	1.70	29.3	1.6	<0.05	2.5	8.22	39.7	0.23	58	0.8	20.2	110	195
STD DS10	Standard	1.52	28.6	1.7	<0.05	2.5	8.36	38.2	0.22	45	0.8	18.6	103	192



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Project: None Given  
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# QUALITY CONTROL REPORT

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		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
STD OXC129	Standard	1.21	27.05	6.47	39.8	12	80.6	20.0	445	3.13	0.5	0.7	201.5	1.8	203.4	0.03	0.03	<0.02	51	0.71	0.096
STD OXC129	Standard	1.29	26.59	6.23	40.6	5	79.6	19.8	403	3.06	1.0	0.7	205.3	1.9	181.0	0.02	0.04	<0.02	51	0.70	0.106
STD OXC129	Standard	1.33	27.03	6.55	42.1	14	79.0	20.2	418	3.05	0.4	0.7	193.5	1.9	183.0	0.02	0.03	<0.02	51	0.68	0.102
STD OXC129	Standard	1.34	27.03	6.45	39.5	13	79.0	20.6	398	3.08	0.8	0.7	198.7	1.9	185.0	0.01	0.03	<0.02	52	0.71	0.101
STD OXC129	Standard	1.28	26.82	6.69	41.4	6	80.1	19.8	423	3.07	0.4	0.7	218.5	1.9	199.7	0.02	0.03	<0.02	54	0.80	0.101
STD OXC129	Standard	1.29	26.74	6.32	39.9	19	79.9	21.1	406	3.01	0.7	0.7	199.1	1.9	182.3	0.03	0.04	<0.02	51	0.73	0.097
STD OXC129	Standard	1.28	27.59	6.48	43.1	11	81.3	20.3	413	3.13	0.7	0.7	185.0	1.8	186.1	0.01	0.04	<0.02	54	0.74	0.100
STD OXC129	Standard	1.31	28.40	6.67	44.2	18	81.2	21.4	408	3.08	0.9	0.7	197.7	2.0	184.9	0.02	0.02	0.04	54	0.70	0.106
STD OXC129	Standard	1.36	29.14	6.58	38.8	15	87.1	22.3	437	3.05	1.1	0.7	194.0	1.9	190.6	0.03	0.04	<0.02	50	0.69	0.104
STD DS10 Expected		15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	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	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665	0.102
BLK	Blank	<0.01	<0.01	<0.01	0.3	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.03	<0.01	<0.1	2	<0.1	<0.1	<1	<0.01	0.3	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	8	<0.1	<0.1	<1	<0.01	0.4	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	6	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	4	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



# QUALITY CONTROL REPORT

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		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
STD OXC129	Standard	12.5	52.8	1.57	49.8	0.407	1	1.64	0.612	0.38	<0.1	0.9	0.04	<0.02	<5	0.2	<0.02	5.6	0.16	<0.1	0.26
STD OXC129	Standard	12.2	51.6	1.48	48.4	0.397	<1	1.67	0.614	0.41	<0.1	1.5	0.04	<0.02	<5	<0.1	<0.02	5.5	0.17	<0.1	0.33
STD OXC129	Standard	12.9	54.1	1.54	51.0	0.400	<1	1.60	0.600	0.39	<0.1	1.2	0.04	<0.02	<5	<0.1	<0.02	5.6	0.16	<0.1	0.31
STD OXC129	Standard	13.1	52.6	1.48	50.5	0.404	2	1.65	0.602	0.39	<0.1	1.6	0.04	<0.02	<5	<0.1	<0.02	5.6	0.17	<0.1	0.29
STD OXC129	Standard	12.7	53.9	1.58	51.7	0.399	<1	1.70	0.612	0.37	<0.1	1.3	0.04	<0.02	6	<0.1	<0.02	5.7	0.15	<0.1	0.26
STD OXC129	Standard	12.3	52.5	1.53	47.7	0.402	<1	1.59	0.603	0.37	<0.1	0.9	0.03	<0.02	<5	0.3	<0.02	5.5	0.16	<0.1	0.22
STD OXC129	Standard	12.7	55.1	1.60	50.2	0.408	1	1.67	0.615	0.38	<0.1	1.4	0.04	<0.02	<5	0.1	<0.02	5.5	0.17	<0.1	0.30
STD OXC129	Standard	13.3	54.7	1.57	51.1	0.422	2	1.68	0.615	0.38	<0.1	1.4	0.02	<0.02	<5	<0.1	<0.02	5.7	0.17	<0.1	0.21
STD OXC129	Standard	13.3	56.8	1.56	50.0	0.439	<1	1.60	0.605	0.37	<0.1	0.8	0.03	<0.02	<5	<0.1	<0.02	5.3	0.16	<0.1	0.25
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0259	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	2.63	0.08	0.06
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6	0.16		0.24
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	0.04	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	0.6	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	0.2	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	0.2	<0.02	<0.1	<0.02	<0.1	<0.02



# QUALITY CONTROL REPORT

WHI16000272.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
STD OXC129	Standard	1.50	16.1	0.7	<0.05	21.9	4.85	23.2	<0.02	<1	0.8	1.9	<10	<2
STD OXC129	Standard	1.37	17.3	0.7	<0.05	21.6	4.72	22.8	<0.02	<1	0.7	2.0	<10	<2
STD OXC129	Standard	1.40	16.7	0.7	<0.05	22.0	4.73	24.1	<0.02	<1	0.6	2.1	<10	<2
STD OXC129	Standard	1.48	16.1	0.7	<0.05	23.2	4.73	24.3	<0.02	<1	0.8	1.9	18	<2
STD OXC129	Standard	1.58	16.3	0.8	<0.05	22.1	4.92	24.5	<0.02	<1	0.6	2.7	<10	<2
STD OXC129	Standard	1.60	15.7	0.7	<0.05	27.3	4.50	21.7	<0.02	<1	1.1	2.1	<10	<2
STD OXC129	Standard	1.37	16.2	0.7	<0.05	22.4	4.92	23.4	<0.02	<1	1.1	2.2	<10	<2
STD OXC129	Standard	1.45	16.5	0.8	<0.05	20.0	4.83	24.0	<0.02	<1	0.9	2.0	<10	<2
STD OXC129	Standard	1.68	16.1	0.8	<0.05	22.7	4.76	24.0	<0.02	<1	1.0	2.3	<10	<2
STD DS10 Expected		1.62	27.7	1.6		2.7	7.77	37	0.23	50	0.63	19.4	110	191
STD OXC129 Expected		1.4		0.7		21	4.7	23.7			0.8	2.22		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

**Client:** **Golden Predator Mining Corp.**  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

Submitted By: M. Burke  
Receiving Lab: Canada-Whitehorse  
Received: September 09, 2016  
Report Date: September 23, 2016  
Page: 1 of 12

# CERTIFICATE OF ANALYSIS

WHI16000273.1

## CLIENT JOB INFORMATION

Project: None Given  
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: Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6  
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
AQ251_EXT	320	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
SHP01	320	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.



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

PHONE (604) 253-3158

**Client:** Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

**Project:** None Given

**Report Date:** September 23, 2016

**Page:** 2 of 12

**Part:** 1 of 3

# CERTIFICATE OF ANALYSIS

# WHI16000273.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
072160	Soil	0.28	26.04	16.79	63.9	73	24.8	10.7	287	2.88	16.9	1.3	2.4	10.4	28.4	0.05	0.33	0.32	16	0.30	0.056
072161	Soil	0.27	17.02	16.77	44.5	26	22.3	9.0	208	2.72	16.3	0.6	0.5	9.8	10.2	0.02	0.22	0.29	16	0.03	0.019
072162	Soil	0.37	12.15	14.98	43.8	72	19.6	8.1	210	2.44	16.0	0.6	0.3	8.5	4.9	0.03	0.20	0.26	16	0.02	0.024
072163	Soil	0.28	18.74	17.53	53.0	57	27.7	10.8	232	2.91	18.0	0.7	0.5	9.9	7.6	0.02	0.25	0.28	18	0.02	0.026
072164	Soil	0.29	16.98	17.86	50.0	40	25.8	10.1	253	2.61	19.5	0.8	0.5	9.9	6.8	0.01	0.23	0.26	16	0.02	0.029
072165	Soil	0.33	10.12	13.11	38.9	55	17.4	7.0	179	2.37	12.1	0.6	0.8	7.7	6.1	<0.01	0.15	0.23	17	0.03	0.020
072166	Soil	0.35	11.28	15.44	47.8	39	20.1	7.7	212	2.56	16.1	0.6	2.2	7.5	9.0	<0.01	0.22	0.25	16	0.03	0.020
072167	Soil	0.66	10.66	16.61	42.3	52	12.3	6.3	216	2.93	14.8	0.6	2.8	7.0	7.2	0.05	0.36	0.40	36	0.06	0.032
072168	Soil	0.68	16.74	24.02	62.3	101	20.5	10.9	614	3.79	32.0	0.6	0.8	6.9	5.7	0.07	0.54	0.40	22	0.04	0.047
072169	Soil	0.34	8.76	9.61	52.3	44	17.2	6.6	216	2.72	16.8	0.5	<0.2	7.0	5.3	<0.01	0.18	0.25	16	0.02	0.024
072170	Soil	0.43	10.02	12.34	36.1	22	15.3	7.0	156	2.31	12.6	0.6	<0.2	6.5	6.7	0.01	0.17	0.23	18	0.02	0.022
071741	Soil	0.32	22.17	24.37	54.4	225	15.7	8.1	350	2.03	140.6	1.0	3.0	2.2	11.3	0.17	0.46	0.63	10	0.02	0.054
071742	Soil	0.57	26.90	21.06	74.3	131	21.4	9.3	211	4.48	225.6	0.8	5.9	7.5	8.1	0.14	0.77	0.77	18	<0.01	0.060
071743	Soil	0.36	21.09	20.79	66.2	22	21.7	6.3	168	3.23	189.6	0.7	13.6	9.7	10.5	0.09	0.62	0.64	14	<0.01	0.022
071744	Soil	0.45	12.89	16.03	48.5	97	14.4	5.5	163	2.82	90.9	0.6	3.6	8.3	7.2	0.08	0.41	0.42	19	0.01	0.023
071745	Soil	0.59	29.52	22.94	79.3	114	25.5	8.8	259	3.73	313.3	0.8	14.0	8.6	9.5	0.09	0.98	0.74	15	0.01	0.035
071746	Soil	0.55	29.89	29.09	95.1	92	29.3	10.7	273	4.44	319.6	0.9	10.5	9.8	12.4	0.16	0.92	0.89	18	<0.01	0.036
071747	Soil	0.86	21.29	25.47	65.8	139	20.2	7.6	222	3.29	253.3	1.0	6.5	6.1	177.4	0.17	0.87	0.55	25	0.02	0.047
071748	Soil	0.39	24.19	17.87	81.0	44	26.6	9.0	245	4.57	147.6	0.7	22.7	9.9	7.8	0.12	0.69	0.53	17	<0.01	0.033
071749	Soil	0.44	19.30	21.80	57.6	70	22.2	7.4	212	3.06	117.7	0.8	9.3	8.3	24.8	0.10	0.56	0.45	14	0.02	0.030
071750	Soil	0.55	23.33	26.92	78.4	75	26.4	12.8	424	3.26	255.5	0.8	20.0	6.8	13.1	0.21	0.74	0.58	12	0.01	0.040
071851	Soil	0.52	27.10	28.77	78.4	175	30.7	13.8	465	3.48	43.8	1.1	5.0	6.2	11.0	0.18	0.54	0.58	13	0.01	0.051
071852	Soil	0.50	22.85	18.99	68.5	76	24.8	8.8	268	3.17	47.8	0.9	11.0	7.8	9.1	0.20	0.65	0.40	12	<0.01	0.032
071853	Soil	0.59	59.18	26.51	107.3	70	41.6	19.5	652	4.73	73.3	1.4	4.8	14.2	8.8	0.09	0.80	0.57	12	0.04	0.039
071854	Soil	0.54	32.24	35.55	74.9	104	26.6	10.1	315	3.72	172.3	1.3	22.7	10.9	10.6	0.08	1.17	0.73	14	<0.01	0.020
071855	Soil	0.41	22.41	26.19	86.5	164	26.4	11.3	462	3.33	282.1	1.1	7.3	9.3	28.7	0.17	0.61	1.83	14	0.09	0.037
071856	Soil	0.63	20.10	22.24	69.9	23	21.4	8.2	213	3.90	90.2	0.6	4.2	9.0	8.5	0.10	0.80	0.51	20	0.02	0.046
071857	Soil	0.53	24.63	26.36	86.4	147	25.1	7.8	221	3.29	394.4	0.9	5.7	7.4	18.1	0.08	0.76	0.67	17	0.12	0.029
071858	Soil	0.48	28.10	28.91	85.1	45	28.3	13.3	419	3.68	197.4	1.0	5.5	11.5	8.9	0.16	0.68	0.61	13	0.02	0.031
071859	Soil	0.58	27.17	27.99	95.2	109	29.8	15.6	543	3.62	460.9	1.3	16.6	9.0	15.1	0.24	0.88	0.54	15	0.07	0.039



# CERTIFICATE OF ANALYSIS

WHI16000273.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
072160	Soil	30.6	22.3	0.59	59.6	0.016	2	1.65	0.012	0.11	0.1	2.5	0.07	<0.02	16	<0.1	0.03	4.7	0.94	<0.1	0.09
072161	Soil	31.6	20.9	0.52	55.1	0.013	<1	1.90	0.008	0.09	0.2	2.4	0.09	<0.02	9	<0.1	0.04	4.5	0.97	<0.1	0.08
072162	Soil	29.4	19.4	0.44	47.0	0.019	1	1.64	0.006	0.08	0.2	2.3	0.09	<0.02	11	<0.1	<0.02	4.6	0.98	<0.1	0.04
072163	Soil	32.5	23.4	0.58	48.6	0.021	<1	2.00	0.010	0.11	0.1	2.5	0.10	<0.02	<5	<0.1	0.07	4.6	1.10	<0.1	0.08
072164	Soil	31.0	21.0	0.53	51.7	0.022	2	1.88	0.009	0.11	0.1	2.6	0.10	<0.02	16	<0.1	0.03	3.9	1.06	<0.1	0.06
072165	Soil	24.9	19.0	0.44	49.1	0.026	1	1.61	0.006	0.07	0.2	2.1	0.11	<0.02	5	<0.1	<0.02	4.3	1.13	<0.1	0.08
072166	Soil	29.7	20.2	0.50	46.1	0.017	<1	1.64	0.007	0.07	0.2	2.0	0.09	<0.02	9	<0.1	0.04	4.6	0.94	<0.1	<0.02
072167	Soil	27.6	17.9	0.28	50.2	0.024	<1	1.50	0.003	0.04	0.2	1.6	0.11	<0.02	16	<0.1	0.03	6.7	1.05	<0.1	<0.02
072168	Soil	27.3	20.1	0.38	43.9	0.026	<1	1.36	0.005	0.06	0.2	1.8	0.07	<0.02	9	<0.1	0.06	4.9	1.30	<0.1	<0.02
072169	Soil	30.3	19.6	0.48	51.1	0.014	<1	1.49	0.005	0.06	0.2	1.7	0.08	<0.02	19	<0.1	<0.02	4.7	1.02	<0.1	0.02
072170	Soil	25.1	16.8	0.36	54.0	0.019	<1	1.60	0.008	0.05	0.2	1.9	0.10	<0.02	10	<0.1	<0.02	4.3	1.08	<0.1	<0.02
071741	Soil	8.9	10.2	0.11	50.9	0.003	<1	0.82	0.021	0.09	0.2	1.0	0.07	<0.02	18	<0.1	0.06	3.0	3.18	<0.1	<0.02
071742	Soil	31.7	19.3	0.27	32.7	0.003	<1	1.23	0.005	0.06	0.3	1.4	0.07	<0.02	20	<0.1	0.07	4.8	1.42	<0.1	0.03
071743	Soil	36.4	16.7	0.27	33.1	0.001	<1	1.11	0.005	0.08	0.2	1.0	0.06	<0.02	13	<0.1	0.06	3.7	1.33	<0.1	<0.02
071744	Soil	32.3	15.7	0.24	31.6	0.005	<1	1.10	0.004	0.05	0.2	1.1	0.07	<0.02	8	<0.1	0.05	4.5	1.19	<0.1	0.02
071745	Soil	28.6	16.7	0.28	25.7	0.002	1	1.10	0.005	0.06	0.3	1.4	0.09	<0.02	27	<0.1	0.10	4.2	2.03	<0.1	<0.02
071746	Soil	33.9	22.0	0.36	44.6	0.004	<1	1.65	0.006	0.10	0.5	2.1	0.12	<0.02	26	<0.1	0.11	4.9	2.38	<0.1	0.02
071747	Soil	20.2	18.4	0.14	48.8	0.002	<1	0.94	0.014	0.07	3.2	2.0	0.17	<0.02	31	<0.1	0.06	3.9	3.43	<0.1	<0.02
071748	Soil	36.9	23.3	0.43	24.9	0.002	<1	1.57	0.004	0.06	0.3	1.3	0.06	<0.02	12	<0.1	0.05	4.8	1.27	<0.1	<0.02
071749	Soil	28.5	15.5	0.24	42.3	0.002	1	1.24	0.007	0.06	0.4	1.2	0.09	<0.02	17	<0.1	0.06	3.9	1.92	<0.1	<0.02
071750	Soil	26.6	19.4	0.34	46.4	0.001	<1	1.21	0.006	0.07	0.3	1.3	0.08	<0.02	23	<0.1	0.06	3.6	1.51	<0.1	<0.02
071851	Soil	21.0	17.9	0.29	48.6	0.002	<1	1.21	0.008	0.10	0.2	1.5	0.10	<0.02	36	0.1	0.09	3.8	4.02	<0.1	<0.02
071852	Soil	30.3	17.1	0.32	33.1	0.003	<1	1.13	0.007	0.07	0.2	1.4	0.06	<0.02	15	<0.1	0.06	3.5	1.49	<0.1	<0.02
071853	Soil	23.0	22.3	0.54	28.8	0.002	<1	1.52	0.009	0.06	0.2	2.0	0.06	<0.02	16	<0.1	0.07	4.0	1.46	<0.1	0.04
071854	Soil	30.3	21.1	0.37	48.9	0.001	1	1.45	0.005	0.09	0.2	2.0	0.10	<0.02	18	<0.1	0.09	4.2	2.14	<0.1	<0.02
071855	Soil	23.7	17.6	0.32	54.2	0.001	2	1.28	0.008	0.09	0.3	1.8	0.13	<0.02	22	<0.1	0.07	3.9	2.00	<0.1	0.03
071856	Soil	30.0	20.5	0.33	43.2	0.007	<1	1.46	0.006	0.07	0.3	1.4	0.10	<0.02	20	0.1	0.06	4.3	1.38	<0.1	<0.02
071857	Soil	24.0	20.7	0.43	63.7	0.003	<1	1.58	0.012	0.13	0.3	1.8	0.12	<0.02	15	<0.1	0.03	4.9	2.83	<0.1	<0.02
071858	Soil	34.3	19.5	0.42	38.0	0.003	<1	1.25	0.006	0.09	0.2	1.7	0.07	<0.02	6	<0.1	0.06	3.5	1.20	<0.1	<0.02
071859	Soil	29.2	21.7	0.44	49.9	0.003	<1	1.47	0.008	0.12	0.3	2.0	0.10	<0.02	17	<0.1	0.03	4.2	1.91	<0.1	<0.02



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000273.1

Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
072160	Soil	0.76	10.1	0.7	<0.05	3.2	6.60	57.5	0.03	<1	0.5	41.3	<10	<2
072161	Soil	0.60	10.6	0.4	<0.05	3.5	3.70	62.3	<0.02	<1	0.4	34.5	<10	<2
072162	Soil	0.90	10.7	0.5	<0.05	3.2	3.53	56.8	<0.02	<1	0.5	34.6	<10	<2
072163	Soil	0.68	12.3	0.5	<0.05	3.6	3.93	64.1	0.02	<1	1.2	42.4	<10	<2
072164	Soil	0.61	11.5	0.5	<0.05	3.6	4.64	63.6	<0.02	<1	0.5	36.1	<10	<2
072165	Soil	0.78	10.3	0.6	<0.05	3.2	3.23	49.0	0.03	<1	0.4	34.9	<10	<2
072166	Soil	0.98	10.7	0.6	<0.05	1.3	3.46	58.8	<0.02	<1	0.5	36.1	<10	<2
072167	Soil	1.08	10.2	0.7	<0.05	1.3	2.71	52.8	<0.02	<1	0.5	24.4	<10	<2
072168	Soil	1.25	10.3	0.6	<0.05	1.1	2.92	52.7	0.03	<1	0.6	35.5	<10	<2
072169	Soil	0.67	11.1	0.5	<0.05	0.9	2.45	59.1	<0.02	<1	0.1	38.0	<10	<2
072170	Soil	0.88	9.6	0.7	<0.05	1.5	3.08	48.6	0.05	<1	0.3	33.1	<10	<2
071741	Soil	0.15	10.3	0.4	<0.05	0.3	1.99	16.9	<0.02	<1	0.4	12.8	<10	<2
071742	Soil	0.34	8.3	0.5	<0.05	0.9	2.07	57.6	0.02	<1	0.1	19.9	<10	<2
071743	Soil	0.13	9.7	0.4	<0.05	0.6	1.86	65.2	<0.02	<1	0.2	19.2	<10	<2
071744	Soil	0.44	8.8	0.7	<0.05	1.7	1.89	59.0	<0.02	<1	0.3	21.3	<10	<2
071745	Soil	0.21	10.3	0.7	<0.05	0.7	2.04	51.7	0.03	<1	0.3	23.3	<10	<2
071746	Soil	0.37	14.7	0.6	<0.05	1.2	2.70	65.2	0.03	<1	0.2	36.4	<10	<2
071747	Soil	0.19	9.6	0.6	<0.05	0.6	4.30	37.8	<0.02	<1	0.5	15.4	<10	<2
071748	Soil	0.20	8.8	0.9	<0.05	3.4	2.12	68.9	<0.02	<1	0.3	34.6	<10	<2
071749	Soil	0.22	7.8	0.3	<0.05	0.8	3.10	50.3	0.02	<1	0.4	22.7	<10	<2
071750	Soil	0.12	9.1	0.6	<0.05	0.8	2.43	48.7	<0.02	<1	0.3	28.3	<10	<2
071851	Soil	0.30	12.0	0.6	<0.05	0.6	3.00	37.8	0.03	<1	0.5	23.7	<10	<2
071852	Soil	0.18	7.6	0.5	<0.05	0.6	2.09	55.1	<0.02	<1	0.4	24.0	<10	<2
071853	Soil	0.06	5.5	0.5	<0.05	1.0	1.83	38.9	<0.02	<1	0.5	42.3	<10	<2
071854	Soil	0.13	10.7	0.4	<0.05	0.9	3.14	53.3	0.02	<1	0.5	29.6	<10	<2
071855	Soil	0.18	9.7	0.3	<0.05	0.8	2.63	42.8	0.02	1	0.4	29.7	<10	<2
071856	Soil	0.59	9.7	0.4	<0.05	1.4	1.94	56.3	0.03	<1	0.3	26.7	<10	<2
071857	Soil	0.42	14.6	0.5	<0.05	0.5	2.40	43.0	0.03	<1	0.4	40.8	<10	<2
071858	Soil	0.20	7.2	0.4	<0.05	1.0	2.87	62.6	0.02	<1	0.4	28.3	<10	<2
071859	Soil	0.19	9.9	0.4	<0.05	0.5	3.42	52.1	<0.02	<1	0.5	30.0	<10	<2



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000273.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
071860	Soil	0.68	33.50	29.11	88.4	62	31.3	14.6	443	3.86	78.6	1.2	2.1	11.1	8.2	0.13	0.96	0.68	16	0.02	0.042
071861	Soil	0.63	34.71	33.77	94.8	162	34.3	15.3	485	3.91	79.4	1.3	3.2	9.9	15.2	0.19	0.95	0.56	16	0.15	0.043
071862	Soil	0.53	28.26	30.65	74.3	79	30.1	13.4	380	3.40	50.4	1.4	4.5	9.7	25.7	0.09	0.69	0.47	16	0.34	0.045
071863	Soil	0.75	38.57	54.46	109.6	199	28.6	13.1	330	4.54	569.3	0.9	62.6	8.9	10.8	0.26	6.49	0.59	9	<0.01	0.029
071864	Soil	0.43	22.52	93.35	58.9	270	16.2	6.1	161	2.34	344.9	1.1	31.1	3.3	21.7	0.46	1.08	0.60	11	0.02	0.049
071865	Soil	0.48	25.29	28.30	85.1	37	25.2	9.3	286	4.45	181.1	0.9	37.4	9.2	8.7	0.12	0.81	0.56	17	<0.01	0.060
071866	Soil	0.43	22.04	24.35	71.9	69	22.2	8.2	231	3.79	160.5	0.8	46.1	9.9	8.9	0.14	0.81	0.55	16	<0.01	0.082
071867	Soil	0.39	25.02	29.17	83.7	46	25.2	9.2	220	4.37	209.3	1.0	17.8	12.3	12.0	0.16	0.83	0.63	15	<0.01	0.097
071868	Soil	0.57	36.98	47.54	128.0	247	39.6	22.9	774	4.30	208.9	1.2	410.0	10.9	11.2	0.53	1.41	0.60	17	0.02	0.049
071869	Soil	0.62	28.21	22.40	84.5	157	26.4	9.2	276	4.85	328.1	0.9	6.4	10.0	27.2	0.26	1.15	0.60	20	<0.01	0.052
071870	Soil	0.50	18.43	19.01	50.6	139	14.0	5.2	155	1.67	98.3	0.7	1.7	6.1	15.3	0.32	0.48	0.41	14	0.04	0.028
071871	Soil	0.39	43.24	21.12	71.8	109	27.3	9.5	105	2.49	87.3	1.4	16.5	11.2	39.6	0.25	0.69	0.70	9	<0.01	0.024
071872	Soil	0.64	15.43	23.39	71.3	164	18.0	8.3	341	3.66	54.7	0.7	1.5	8.5	6.7	0.31	0.58	0.49	32	0.02	0.050
071873	Soil	0.44	22.47	25.04	95.0	99	34.2	11.4	358	4.44	68.8	0.7	2.1	10.4	6.1	0.20	0.58	0.46	18	<0.01	0.023
071874	Soil	0.47	15.92	23.81	67.5	132	22.4	7.4	239	3.90	47.7	0.7	2.3	9.4	5.4	0.14	0.43	0.41	21	0.01	0.028
071875	Soil	0.93	28.85	33.35	103.4	148	37.4	12.1	444	5.55	87.3	0.9	4.9	10.1	5.0	0.06	0.91	0.49	29	<0.01	0.059
071876	Soil	0.45	38.85	39.21	100.6	31	42.3	13.6	403	4.37	72.4	0.9	9.3	12.1	6.7	0.13	0.64	0.46	18	0.01	0.022
071877	Soil	0.58	9.42	12.18	33.6	19	9.3	3.5	93	1.84	144.1	0.5	7.3	3.5	5.8	0.06	0.38	0.25	21	0.02	0.027
071878	Soil	0.42	37.98	34.93	112.8	301	33.8	10.9	254	4.27	295.8	1.0	18.9	11.2	10.0	0.21	0.93	0.77	12	<0.01	0.029
071879	Soil	0.72	29.22	64.95	80.6	438	19.6	7.7	201	3.48	847.1	0.8	107.2	10.7	14.8	0.25	1.83	0.89	15	<0.01	0.034
071880	Soil	0.70	20.39	35.75	53.7	60	13.2	5.2	83	2.42	420.7	0.6	97.6	8.2	12.0	0.13	2.08	0.61	14	<0.01	0.029
071881	Soil	0.59	17.21	22.02	62.2	250	13.2	5.6	96	2.39	352.2	0.7	15.7	8.4	10.2	0.24	2.05	0.48	14	<0.01	0.026
071882	Soil	0.33	19.72	20.62	37.9	113	15.4	3.8	105	1.41	107.0	1.0	6.2	1.3	9.7	0.45	0.59	0.36	12	0.02	0.028
071883	Soil	0.38	23.99	73.15	95.2	146	22.8	8.4	276	2.96	206.2	1.1	17.2	6.8	15.7	0.55	1.02	0.69	13	0.01	0.048
071884	Soil	0.45	24.65	36.01	91.8	54	28.1	9.4	225	3.81	221.1	0.8	18.3	10.6	9.1	0.33	1.04	0.55	12	<0.01	0.024
071885	Soil	0.39	27.38	31.64	74.7	122	27.9	10.6	411	2.75	45.2	2.4	9.8	5.0	65.6	0.53	0.51	0.33	11	1.32	0.051
071886	Soil	0.40	26.10	32.20	92.4	25	36.0	14.2	461	3.42	39.1	2.3	7.7	7.6	37.8	0.27	0.51	0.36	14	0.63	0.044
071887	Soil	0.45	27.50	23.81	79.4	63	33.4	12.1	472	3.23	17.9	1.2	1.5	9.5	43.1	0.22	0.45	0.35	12	0.82	0.054
071888	Soil	0.48	33.64	36.36	125.1	120	33.4	13.0	396	3.43	37.8	2.4	4.4	8.4	36.5	0.89	0.63	0.49	12	0.67	0.048
071889	Soil	0.40	35.60	37.75	122.5	65	37.9	16.2	528	3.78	35.8	1.9	6.1	12.2	22.2	0.67	0.69	0.44	11	0.28	0.040



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**Project:** None Given  
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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
071860	Soil	34.2	23.5	0.44	48.3	0.005	<1	1.49	0.009	0.15	0.3	2.0	0.09	<0.02	9	<0.1	0.05	4.2	1.42	<0.1	<0.02
071861	Soil	29.9	23.3	0.50	61.7	0.004	2	1.57	0.008	0.15	0.2	2.3	0.09	<0.02	17	<0.1	0.04	4.2	1.43	<0.1	0.02
071862	Soil	24.6	23.9	0.49	84.2	0.003	<1	1.67	0.009	0.17	0.2	2.3	0.09	0.03	26	<0.1	0.04	4.7	1.63	<0.1	0.05
071863	Soil	23.2	13.8	0.15	24.8	<0.001	<1	0.80	0.003	0.04	0.1	1.4	0.06	<0.02	22	<0.1	0.16	2.4	1.93	<0.1	<0.02
071864	Soil	14.8	11.4	0.13	47.5	0.002	2	0.84	0.010	0.07	0.3	0.9	0.21	0.03	49	0.1	0.11	3.4	2.91	<0.1	0.02
071865	Soil	35.0	20.8	0.34	23.0	0.003	<1	1.32	0.004	0.04	0.2	1.3	0.05	<0.02	10	<0.1	0.10	4.6	1.25	<0.1	0.04
071866	Soil	38.1	16.8	0.26	29.5	0.004	<1	1.05	0.006	0.04	0.4	1.3	0.07	<0.02	9	<0.1	0.08	4.3	1.25	<0.1	<0.02
071867	Soil	34.9	18.7	0.26	29.8	0.002	<1	1.08	0.003	0.05	0.5	1.4	0.06	<0.02	10	0.3	0.06	3.9	1.26	<0.1	<0.02
071868	Soil	32.3	26.0	0.64	38.9	0.004	<1	1.80	0.004	0.06	0.2	2.1	0.07	<0.02	26	<0.1	0.10	5.2	1.56	<0.1	0.06
071869	Soil	31.3	25.6	0.35	22.7	0.003	1	1.28	0.003	0.04	0.4	1.5	0.08	<0.02	20	<0.1	0.10	6.2	1.21	<0.1	0.03
071870	Soil	25.5	7.3	0.05	30.1	0.003	<1	0.53	0.004	0.04	0.6	0.9	0.15	<0.02	10	0.2	0.03	3.3	1.00	<0.1	<0.02
071871	Soil	33.5	9.5	0.03	24.1	<0.001	<1	0.34	0.001	0.05	0.8	1.0	0.18	<0.02	32	<0.1	0.09	1.6	1.39	<0.1	<0.02
071872	Soil	33.8	22.2	0.34	39.5	0.012	<1	1.64	0.004	0.06	0.3	1.6	0.08	<0.02	21	0.2	0.04	7.3	1.49	<0.1	<0.02
071873	Soil	33.6	28.3	0.67	36.6	0.003	2	2.06	0.005	0.06	0.2	1.8	0.05	<0.02	28	0.1	0.05	5.6	1.17	<0.1	0.04
071874	Soil	35.0	22.1	0.43	33.7	0.003	<1	1.71	0.003	0.04	0.2	1.5	0.06	<0.02	24	0.1	0.06	6.1	0.95	<0.1	0.03
071875	Soil	33.9	34.2	0.86	29.0	0.005	<1	2.35	0.005	0.06	0.2	2.2	0.09	<0.02	16	0.2	0.09	8.6	1.66	<0.1	0.03
071876	Soil	36.6	32.0	0.81	48.6	0.003	2	2.36	0.006	0.08	0.2	2.0	0.07	<0.02	17	<0.1	0.04	5.6	1.48	<0.1	0.06
071877	Soil	19.2	8.2	0.04	21.0	0.015	2	0.47	0.012	0.03	0.4	0.8	0.07	<0.02	18	<0.1	0.02	4.3	0.59	<0.1	<0.02
071878	Soil	30.0	19.5	0.36	24.2	0.002	<1	1.25	0.004	0.05	0.2	1.5	0.05	<0.02	41	0.1	0.08	3.1	1.06	<0.1	0.02
071879	Soil	28.8	13.0	0.10	32.1	0.003	<1	0.77	0.003	0.06	0.4	1.3	0.12	<0.02	25	0.2	0.37	3.2	1.80	<0.1	<0.02
071880	Soil	36.6	8.4	0.03	29.8	0.002	<1	0.63	0.002	0.04	0.4	1.2	0.12	<0.02	13	<0.1	0.17	3.5	1.38	<0.1	<0.02
071881	Soil	37.2	7.3	0.02	20.9	0.003	<1	0.51	0.003	0.03	0.3	0.9	0.07	<0.02	11	<0.1	0.08	3.5	0.91	<0.1	<0.02
071882	Soil	23.5	7.5	0.07	53.8	0.004	<1	0.59	0.013	0.04	0.2	0.8	0.08	<0.02	23	<0.1	0.04	2.8	1.39	<0.1	<0.02
071883	Soil	21.6	16.1	0.23	45.6	0.003	2	1.02	0.006	0.09	0.4	1.4	0.17	0.02	40	0.2	0.07	3.6	3.91	<0.1	0.03
071884	Soil	34.6	19.1	0.36	32.9	0.002	<1	1.31	0.003	0.06	0.2	1.4	0.06	<0.02	18	0.1	0.08	3.5	1.20	<0.1	0.03
071885	Soil	10.8	19.2	0.55	62.0	0.002	2	1.49	0.010	0.07	0.1	1.9	0.11	0.07	56	0.4	0.03	4.3	1.71	<0.1	0.07
071886	Soil	19.8	25.0	0.73	47.4	0.002	1	1.85	0.006	0.07	0.2	2.0	0.10	0.04	47	0.5	0.08	5.0	1.72	<0.1	0.11
071887	Soil	20.8	25.0	0.74	54.5	0.003	3	1.73	0.010	0.10	0.1	1.9	0.07	0.07	47	0.8	0.05	4.9	1.46	<0.1	0.09
071888	Soil	19.2	21.2	0.55	50.9	0.001	1	1.52	0.007	0.08	0.1	1.9	0.09	0.04	29	0.5	0.08	4.3	1.67	<0.1	0.07
071889	Soil	28.0	20.2	0.46	32.2	0.001	<1	1.27	0.005	0.07	0.1	2.0	0.06	<0.02	24	<0.1	0.05	3.9	1.17	<0.1	0.06



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000273.1

	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
071860	Soil	0.26	10.4	0.6	<0.05	0.8	3.42	63.8	0.03	<1	0.8	30.0	<10	<2
071861	Soil	0.24	10.5	0.4	<0.05	0.9	3.91	53.7	0.04	<1	0.9	33.1	<10	<2
071862	Soil	0.41	11.8	0.4	<0.05	1.7	3.85	44.4	<0.02	<1	0.4	31.8	<10	<2
071863	Soil	0.11	6.5	0.2	<0.05	0.5	1.80	39.4	0.03	<1	0.4	14.3	<10	<2
071864	Soil	0.19	10.1	0.3	<0.05	0.5	2.33	26.6	0.03	<1	0.3	9.9	<10	<2
071865	Soil	0.28	7.4	0.4	<0.05	1.9	1.91	63.4	0.02	<1	0.3	24.8	<10	<2
071866	Soil	0.22	8.2	0.5	<0.05	0.8	2.05	67.3	0.03	<1	0.2	17.2	<10	<2
071867	Soil	0.16	8.4	0.5	<0.05	1.4	2.12	64.2	<0.02	<1	0.3	18.3	<10	<2
071868	Soil	0.24	7.1	0.3	<0.05	1.6	3.01	59.2	0.03	<1	0.6	45.0	<10	<2
071869	Soil	0.35	7.2	0.5	<0.05	1.3	1.95	58.4	<0.02	<1	0.2	25.4	<10	<2
071870	Soil	0.21	6.8	0.5	<0.05	0.2	1.60	47.3	<0.02	<1	<0.1	2.9	<10	<2
071871	Soil	0.04	6.0	0.3	<0.05	0.2	2.09	63.5	<0.02	<1	<0.1	0.8	<10	<2
071872	Soil	0.90	8.4	0.8	<0.05	1.0	2.09	65.6	<0.02	<1	0.3	26.1	<10	<2
071873	Soil	0.20	6.9	0.5	<0.05	2.4	1.84	65.2	<0.02	<1	0.2	51.8	<10	<2
071874	Soil	0.43	6.8	0.8	<0.05	1.5	1.89	66.1	<0.02	<1	0.3	35.9	<10	<2
071875	Soil	0.36	9.7	0.5	<0.05	2.9	2.18	64.2	0.03	<1	0.2	55.2	<10	<2
071876	Soil	0.10	7.6	0.4	<0.05	3.5	2.35	68.6	0.04	<1	0.4	59.4	<10	<2
071877	Soil	0.46	4.0	0.7	<0.05	0.3	1.33	35.4	<0.02	<1	0.1	1.6	<10	<2
071878	Soil	0.10	6.3	0.4	<0.05	1.5	1.79	55.2	0.02	<1	0.3	27.2	<10	<2
071879	Soil	0.25	9.5	0.6	<0.05	0.6	1.78	49.9	0.04	<1	0.3	9.2	<10	<2
071880	Soil	0.16	7.4	0.5	<0.05	0.2	1.61	63.9	<0.02	<1	0.2	2.1	<10	<2
071881	Soil	0.26	7.1	0.6	<0.05	0.3	2.12	66.9	<0.02	<1	0.3	1.5	<10	<2
071882	Soil	0.15	7.3	0.5	<0.05	0.2	7.83	42.8	<0.02	<1	0.3	5.5	<10	<2
071883	Soil	0.18	12.8	0.6	<0.05	0.6	1.90	38.5	<0.02	<1	0.4	18.0	<10	<2
071884	Soil	0.15	7.6	0.5	<0.05	1.2	2.06	61.2	<0.02	<1	0.1	30.2	<10	<2
071885	Soil	0.23	7.2	0.3	<0.05	4.0	3.59	18.9	<0.02	<1	0.5	35.5	<10	<2
071886	Soil	0.22	6.9	0.6	<0.05	3.8	3.49	35.9	<0.02	<1	0.5	49.8	<10	<2
071887	Soil	0.20	7.8	0.4	<0.05	3.8	3.47	39.2	<0.02	<1	0.5	46.4	<10	<2
071888	Soil	0.16	6.9	0.3	<0.05	2.5	3.61	35.4	0.03	<1	0.6	40.8	<10	<2
071889	Soil	0.10	5.0	0.3	<0.05	2.4	3.86	50.7	<0.02	<1	0.4	32.6	<10	<2



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000273.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
071890	Soil	0.44	37.59	42.99	107.2	141	39.3	14.2	376	3.77	20.5	2.0	3.9	10.7	26.6	0.29	0.56	0.44	12	0.39	0.039
071501	Soil	0.49	29.98	37.22	78.4	160	26.2	11.5	357	3.15	55.0	1.2	2.9	8.0	13.6	0.18	0.48	0.56	14	0.07	0.037
071502	Soil	0.60	25.06	16.56	75.3	94	24.4	9.2	258	3.92	60.7	0.7	5.0	8.5	4.9	0.07	0.67	0.40	14	<0.01	0.025
071503	Soil	0.32	24.14	24.85	39.5	115	16.9	6.9	263	2.03	50.8	1.1	3.9	2.7	23.6	0.12	0.44	0.35	12	0.40	0.036
071504	Soil	0.57	31.37	20.94	76.1	23	25.7	7.7	194	3.69	63.2	1.0	4.7	7.7	6.6	0.06	0.83	0.55	15	<0.01	0.035
071505	Soil	0.28	17.03	21.21	48.6	133	15.4	5.5	167	1.95	91.3	0.7	3.5	3.9	12.1	0.22	0.29	0.39	14	0.06	0.027
071506	Soil	0.38	26.25	28.53	84.4	81	28.0	9.6	286	3.62	126.7	0.9	20.5	10.7	6.2	0.14	0.69	0.48	14	0.01	0.030
071507	Soil	0.38	22.22	27.15	89.0	158	24.0	8.9	318	3.29	415.1	0.9	8.6	8.9	12.2	0.36	0.58	0.77	15	0.03	0.020
071508	Soil	0.42	25.04	28.27	95.1	70	30.0	11.9	411	3.53	227.9	1.1	17.4	9.9	16.5	0.17	0.69	0.58	13	0.13	0.035
071509	Soil	0.29	12.01	17.51	62.0	49	19.3	6.5	223	2.89	196.7	0.5	13.0	8.3	8.5	0.09	0.38	0.53	14	0.01	0.019
071510	Soil	0.33	11.02	10.19	36.1	124	10.4	3.5	104	1.49	61.6	0.4	13.0	3.3	9.4	0.05	0.72	0.29	8	0.05	0.020
071541	Soil	0.60	39.15	29.23	97.9	17	38.5	10.4	246	4.32	89.2	1.1	6.7	12.2	18.3	0.09	0.85	0.58	22	<0.01	0.040
071542	Soil	0.57	32.16	28.76	91.9	61	30.9	9.5	240	4.08	149.7	1.0	6.3	9.5	6.7	0.11	0.76	0.60	16	<0.01	0.031
071543	Soil	0.55	17.66	20.90	67.0	127	17.8	7.6	207	3.90	126.2	0.6	9.0	8.0	4.6	0.04	0.65	0.55	19	<0.01	0.029
071544	Soil	0.55	38.72	34.47	97.3	71	35.9	13.1	330	4.17	66.7	1.3	5.9	11.3	5.5	0.09	0.73	0.62	16	<0.01	0.034
071545	Soil	0.46	25.18	24.98	74.8	54	26.3	8.6	247	3.48	291.7	0.8	5.3	9.6	6.5	0.06	0.63	0.76	15	<0.01	0.052
071546	Soil	0.56	35.95	32.91	93.8	59	36.0	15.3	463	4.10	73.7	1.2	3.6	11.5	5.0	0.11	0.80	0.59	15	<0.01	0.030
071547	Soil	0.84	36.80	28.93	103.3	76	35.0	15.3	436	4.19	88.0	1.0	2.5	9.2	13.0	0.08	0.86	0.62	14	0.13	0.043
071548	Soil	0.49	38.48	35.45	91.8	173	35.8	13.3	479	3.51	205.6	1.5	28.8	8.4	21.8	0.30	0.76	1.03	12	0.19	0.048
071549	Soil	0.61	32.16	23.96	77.1	61	27.3	9.1	197	3.76	87.4	0.9	4.0	10.1	5.2	0.04	0.68	0.63	14	<0.01	0.027
071550	Soil	0.50	32.31	24.62	80.7	53	29.3	10.1	211	3.69	79.5	0.9	6.6	10.3	6.1	0.06	0.59	0.63	13	<0.01	0.027
071951	Soil	0.25	24.25	21.14	74.0	90	31.1	12.3	429	3.45	29.9	1.3	5.6	8.2	27.9	0.05	0.49	0.29	11	0.37	0.051
071952	Soil	0.36	14.85	15.89	65.5	28	23.9	8.7	212	3.41	30.4	0.7	0.8	8.2	6.3	0.03	0.38	0.29	14	0.04	0.029
071953	Soil	0.23	6.56	11.01	29.5	58	14.2	5.5	130	2.07	8.4	0.4	2.4	6.2	10.6	<0.01	0.13	0.18	15	0.04	0.015
071954	Soil	0.39	6.24	10.87	30.7	38	10.4	4.8	126	1.93	9.8	0.4	<0.2	6.5	5.4	<0.01	0.17	0.21	17	0.02	0.023
071955	Soil	0.40	7.09	11.42	32.8	43	13.2	5.2	144	2.19	10.0	0.5	5.3	6.5	6.5	<0.01	0.14	0.22	18	0.02	0.021
071956	Soil	0.25	6.36	9.15	27.8	51	13.6	4.8	123	1.71	7.4	0.4	<0.2	5.2	4.2	<0.01	0.09	0.14	12	0.02	0.018
071957	Soil	0.30	6.59	8.73	41.0	34	11.9	6.0	271	2.00	7.2	0.3	<0.2	5.2	10.5	0.04	0.14	0.19	18	0.09	0.015
071958	Soil	0.29	3.95	10.84	20.9	15	7.0	2.8	83	1.70	7.5	0.3	<0.2	5.0	3.5	<0.01	0.10	0.22	18	0.02	0.024
071959	Soil	0.28	6.29	9.62	28.5	62	12.3	4.5	139	2.00	10.4	0.4	<0.2	6.4	3.8	<0.01	0.12	0.18	16	0.02	0.020



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000273.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
071890	Soil	26.9	20.8	0.47	36.9	0.002	1	1.39	0.007	0.08	0.2	2.1	0.07	0.02	28	0.2	0.08	3.9	1.78	<0.1	0.04
071501	Soil	20.2	18.3	0.33	60.3	0.002	2	1.38	0.010	0.08	0.2	1.6	0.09	0.02	24	0.3	0.02	4.4	4.33	<0.1	<0.02
071502	Soil	29.0	20.4	0.41	23.5	0.002	<1	1.32	0.004	0.05	0.2	1.2	0.05	<0.02	12	<0.1	0.07	4.6	1.18	<0.1	<0.02
071503	Soil	14.3	11.9	0.21	51.4	0.004	2	0.90	0.022	0.09	0.2	1.0	0.07	<0.02	15	0.3	0.03	3.4	1.15	<0.1	0.02
071504	Soil	28.8	18.0	0.34	33.4	0.004	<1	1.23	0.008	0.09	0.4	1.4	0.07	<0.02	9	0.4	0.05	4.3	1.41	<0.1	0.02
071505	Soil	17.3	14.3	0.25	62.3	0.003	2	1.14	0.018	0.10	0.3	1.3	0.08	<0.02	14	0.2	<0.02	4.3	1.79	<0.1	<0.02
071506	Soil	37.8	21.5	0.45	25.9	0.003	1	1.34	0.004	0.07	0.2	1.7	0.05	<0.02	16	<0.1	0.04	3.7	0.90	<0.1	<0.02
071507	Soil	28.7	19.9	0.39	50.8	0.002	2	1.40	0.008	0.10	0.3	1.4	0.11	<0.02	8	0.1	0.05	4.5	1.81	<0.1	<0.02
071508	Soil	31.7	21.9	0.55	34.3	0.002	<1	1.41	0.006	0.07	0.3	1.8	0.06	<0.02	18	0.2	0.04	3.9	1.07	<0.1	0.02
071509	Soil	35.7	17.9	0.39	32.3	0.003	<1	1.27	0.006	0.07	0.2	1.2	0.09	<0.02	9	<0.1	0.04	4.2	1.32	<0.1	<0.02
071510	Soil	15.7	8.2	0.14	20.3	0.002	1	0.46	0.014	0.05	0.1	0.8	0.05	<0.02	11	<0.1	0.03	2.0	1.04	<0.1	<0.02
071541	Soil	30.7	29.4	0.40	46.1	0.002	1	1.55	0.005	0.13	0.2	2.3	0.08	<0.02	9	0.2	0.04	4.4	1.35	<0.1	0.02
071542	Soil	22.7	23.1	0.38	26.8	0.002	1	1.36	0.003	0.07	0.2	1.8	0.05	<0.02	17	0.4	0.06	3.5	1.08	<0.1	0.04
071543	Soil	26.8	18.8	0.27	23.9	0.005	<1	1.19	0.003	0.05	0.3	1.2	0.06	<0.02	18	0.3	0.04	4.8	1.17	<0.1	0.04
071544	Soil	26.2	22.8	0.48	40.3	0.002	<1	1.48	0.005	0.08	0.2	1.9	0.07	<0.02	20	0.4	0.06	4.1	1.28	<0.1	0.03
071545	Soil	24.7	19.3	0.41	45.4	0.002	1	1.35	0.007	0.07	0.2	1.4	0.07	<0.02	17	0.1	0.07	4.4	1.51	<0.1	0.02
071546	Soil	26.4	22.0	0.54	36.1	0.003	<1	1.49	0.005	0.09	0.2	2.0	0.06	<0.02	19	<0.1	0.08	3.9	1.43	<0.1	0.04
071547	Soil	19.2	22.3	0.56	36.5	0.002	2	1.39	0.006	0.09	0.2	1.8	0.05	0.03	29	0.5	0.04	3.7	1.62	<0.1	<0.02
071548	Soil	16.3	17.4	0.41	54.2	0.002	<1	1.18	0.006	0.08	0.3	1.9	0.06	0.03	23	0.3	0.05	3.8	3.65	<0.1	0.03
071549	Soil	28.8	17.6	0.31	25.9	0.001	1	1.13	0.003	0.05	0.2	1.4	0.05	<0.02	10	0.2	0.05	3.7	1.20	<0.1	<0.02
071550	Soil	26.5	15.3	0.31	27.1	0.001	2	0.99	0.004	0.05	0.2	1.5	0.05	<0.02	6	0.2	0.08	3.5	1.62	<0.1	<0.02
071951	Soil	23.3	20.3	0.64	22.6	0.002	2	1.53	0.004	0.04	<0.1	2.0	0.02	0.02	28	0.4	<0.02	3.7	0.58	<0.1	0.08
071952	Soil	34.6	19.3	0.57	32.1	0.003	<1	1.64	0.004	0.05	<0.1	1.3	0.02	<0.02	8	0.2	0.03	4.7	0.79	<0.1	<0.02
071953	Soil	22.8	15.3	0.35	57.6	0.011	<1	1.53	0.005	0.09	0.1	1.9	0.08	<0.02	12	<0.1	<0.02	4.4	0.96	<0.1	0.05
071954	Soil	28.3	16.0	0.29	48.2	0.018	<1	1.40	0.004	0.06	0.2	1.7	0.08	<0.02	17	0.2	<0.02	4.9	1.21	<0.1	<0.02
071955	Soil	25.9	18.2	0.37	51.6	0.021	<1	1.61	0.006	0.07	0.2	2.1	0.08	<0.02	20	0.2	0.02	5.2	1.14	<0.1	<0.02
071956	Soil	21.2	15.0	0.35	51.8	0.014	<1	1.34	0.005	0.07	0.2	1.6	0.08	<0.02	12	0.2	<0.02	3.7	0.87	<0.1	<0.02
071957	Soil	22.0	15.0	0.36	37.6	0.016	<1	1.25	0.006	0.05	0.2	1.7	0.07	<0.02	10	<0.1	<0.02	4.2	0.70	<0.1	0.05
071958	Soil	21.9	11.0	0.21	33.4	0.014	<1	1.04	0.003	0.03	0.3	1.1	0.07	<0.02	14	0.3	<0.02	4.7	0.83	<0.1	<0.02
071959	Soil	27.6	15.5	0.36	57.3	0.012	<1	1.44	0.005	0.06	0.1	1.7	0.08	<0.02	7	<0.1	0.03	4.9	0.89	<0.1	<0.02



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000273.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
071890	Soil	0.09	6.4	0.5	<0.05	2.2	3.79	48.2	0.03	<1	0.5	35.6	<10	<2
071501	Soil	0.26	12.4	0.5	<0.05	1.1	3.21	35.1	0.02	<1	0.7	31.6	<10	<2
071502	Soil	0.14	5.8	0.4	<0.05	1.3	1.49	49.5	<0.02	<1	0.2	29.1	<10	<2
071503	Soil	0.31	8.1	0.5	<0.05	0.3	2.41	27.2	<0.02	<1	0.2	15.8	<10	<2
071504	Soil	0.28	9.8	0.5	<0.05	0.8	2.06	53.3	0.02	<1	0.5	22.3	<10	<2
071505	Soil	0.31	12.2	0.3	<0.05	0.4	1.90	32.7	<0.02	<1	0.5	19.4	<10	<2
071506	Soil	0.17	5.8	0.4	<0.05	3.2	2.38	69.7	<0.02	<1	0.3	32.5	<10	<2
071507	Soil	0.21	10.4	0.4	<0.05	0.9	2.51	52.6	<0.02	<1	0.6	28.1	<10	<2
071508	Soil	0.15	6.0	0.3	<0.05	1.3	2.55	57.2	<0.02	<1	0.2	37.4	<10	<2
071509	Soil	0.17	8.8	0.4	<0.05	0.9	1.69	67.0	<0.02	<1	0.2	30.2	<10	<2
071510	Soil	0.08	5.1	0.3	<0.05	0.3	1.20	27.4	<0.02	<1	0.2	9.4	<10	<2
071541	Soil	0.14	8.5	0.5	<0.05	1.4	2.67	57.3	0.03	<1	0.4	28.7	<10	<2
071542	Soil	0.20	6.2	0.4	<0.05	1.6	1.51	41.6	0.04	<1	0.6	31.6	<10	<2
071543	Soil	0.43	8.6	0.5	<0.05	2.0	1.55	50.1	<0.02	<1	0.2	20.0	<10	<2
071544	Soil	0.14	6.4	0.3	<0.05	1.1	2.49	47.9	<0.02	<1	0.7	32.0	<10	<2
071545	Soil	0.25	8.3	0.3	<0.05	1.3	2.07	46.7	<0.02	<1	0.3	30.8	<10	<2
071546	Soil	0.16	6.3	0.3	<0.05	1.3	2.99	48.1	<0.02	<1	0.5	34.0	<10	<2
071547	Soil	0.17	5.8	0.8	<0.05	1.5	3.04	35.2	0.03	<1	0.3	32.3	<10	<2
071548	Soil	0.23	8.3	0.4	<0.05	1.6	6.28	28.1	0.02	<1	0.6	29.9	<10	<2
071549	Soil	0.15	6.2	0.3	<0.05	1.2	1.93	50.2	0.03	<1	0.4	24.3	<10	<2
071550	Soil	0.11	5.8	0.3	<0.05	1.1	1.70	47.6	<0.02	<1	0.4	23.1	<10	<2
071951	Soil	0.15	3.1	0.2	<0.05	2.7	4.94	46.5	<0.02	<1	0.4	44.7	<10	<2
071952	Soil	0.31	5.7	0.3	<0.05	1.1	2.40	67.0	<0.02	<1	0.3	43.7	<10	<2
071953	Soil	0.76	11.5	0.5	<0.05	2.7	2.21	44.8	<0.02	<1	0.3	29.6	<10	<2
071954	Soil	1.08	13.2	0.8	<0.05	1.0	2.62	55.2	<0.02	<1	0.3	24.9	<10	<2
071955	Soil	1.23	11.9	0.7	<0.05	2.0	2.52	50.2	<0.02	<1	0.3	31.0	<10	<2
071956	Soil	0.86	8.9	0.6	<0.05	0.8	2.08	42.0	<0.02	<1	0.2	27.9	<10	<2
071957	Soil	0.93	10.6	0.6	<0.05	1.0	2.06	44.1	0.02	<1	<0.1	28.7	<10	<2
071958	Soil	1.00	7.6	0.6	<0.05	1.3	1.81	43.2	0.02	<1	0.2	21.8	<10	<2
071959	Soil	1.00	10.6	0.6	<0.05	2.1	2.10	53.9	<0.02	<1	0.2	29.2	<10	<2



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000273.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
071960	Soil	0.31	6.00	11.68	28.1	27	9.5	4.4	114	1.99	10.0	0.5	<0.2	6.6	5.3	<0.01	0.15	0.24	20	0.02	0.020
071961	Soil	0.36	10.72	14.08	40.1	68	18.2	7.4	180	2.54	13.3	0.5	0.9	8.5	4.7	<0.01	0.19	0.26	18	0.02	0.027
071962	Soil	0.17	11.02	12.13	29.9	29	13.1	5.0	142	1.92	8.0	0.4	0.3	2.9	11.7	<0.01	0.13	0.19	14	0.07	0.024
071963	Soil	0.48	10.86	19.68	52.6	85	14.7	9.5	352	2.77	36.3	0.5	1.4	6.6	10.8	0.05	0.29	0.39	21	0.05	0.024
071964	Soil	0.36	8.29	13.04	36.9	32	14.7	5.9	176	2.69	13.6	0.4	1.2	6.3	5.7	<0.01	0.17	0.24	22	0.03	0.015
071965	Soil	0.18	14.45	15.31	33.4	11	18.9	6.8	166	2.07	13.0	0.4	0.4	8.2	12.2	<0.01	0.21	0.19	12	0.07	0.009
071966	Soil	0.46	7.69	14.57	62.7	66	9.1	8.6	353	2.34	9.4	0.4	0.8	6.0	14.3	0.06	0.23	0.30	24	0.12	0.017
071967	Soil	0.70	9.90	16.55	54.8	18	12.0	6.9	175	3.54	21.9	0.5	0.4	6.1	4.9	0.05	0.34	0.34	28	0.02	0.027
071968	Soil	0.54	9.39	11.82	46.4	117	9.8	5.2	339	2.12	15.7	0.4	1.2	3.8	8.0	0.16	0.43	0.28	22	0.05	0.028
071969	Soil	0.34	30.97	24.92	69.2	47	29.9	14.5	449	3.20	27.8	0.7	2.9	12.5	97.8	0.02	0.61	0.32	15	2.01	0.049
071970	Soil	0.27	24.76	18.11	54.9	36	25.5	9.9	242	2.84	17.7	0.6	9.3	9.6	37.0	<0.01	0.40	0.25	12	0.59	0.027
071731	Soil	0.38	34.24	42.55	88.4	87	28.8	8.4	271	3.09	293.3	1.1	13.9	6.0	19.6	0.39	0.60	0.92	13	0.08	0.036
071732	Soil	0.35	34.97	34.54	97.0	31	31.8	13.4	366	3.58	188.2	1.2	38.6	12.0	13.6	0.15	0.78	0.66	11	<0.01	0.023
071733	Soil	0.30	21.68	21.84	67.6	37	19.8	7.1	169	2.81	157.1	0.7	12.6	8.3	11.6	0.13	0.48	0.61	12	<0.01	0.022
071734	Soil	0.53	20.10	23.51	77.8	427	23.3	8.9	249	3.75	151.0	0.7	15.4	9.5	7.9	0.15	0.58	0.53	18	<0.01	0.028
071735	Soil	0.43	18.55	20.27	73.2	150	18.8	6.9	218	3.69	173.0	0.7	10.2	8.5	9.9	0.08	0.66	0.56	15	<0.01	0.028
071736	Soil	0.70	16.71	20.14	53.7	89	12.5	5.7	164	3.37	101.4	0.7	8.6	6.5	7.9	0.12	0.69	0.66	32	0.01	0.059
071737	Soil	0.51	19.47	48.51	58.9	89	14.3	5.8	167	2.33	385.7	0.7	14.6	2.8	12.1	0.18	1.37	0.52	12	<0.01	0.037
071738	Soil	0.42	30.92	27.88	87.4	66	29.6	12.9	306	3.14	855.4	1.3	31.3	7.8	18.2	0.24	1.22	1.17	8	<0.01	0.034
071739	Soil	0.50	32.66	29.69	101.3	286	31.9	12.2	331	4.97	192.7	0.9	7.8	9.7	7.0	0.20	0.96	0.63	13	<0.01	0.040
071740	Soil	0.44	26.92	16.75	77.3	160	22.7	8.3	171	3.04	279.8	0.8	11.5	7.1	9.6	0.11	0.76	0.94	13	<0.01	0.030
073931	Soil	0.18	4.38	4.68	21.4	46	6.4	3.0	94	1.18	1.3	0.4	0.8	3.8	5.8	0.06	0.10	0.26	14	0.03	0.012
073932	Soil	0.36	30.73	31.67	90.4	96	38.9	14.2	563	4.02	27.3	1.0	1.8	10.9	12.3	0.11	0.60	0.53	14	0.19	0.053
073933	Soil	0.46	36.70	39.12	100.2	113	33.9	14.4	495	3.48	20.4	2.2	4.2	7.5	36.0	0.34	0.53	0.49	13	0.71	0.052
073934	Soil	0.98	39.40	43.70	99.8	89	38.2	18.0	683	4.00	28.7	4.6	3.8	8.9	34.4	0.24	0.61	0.58	13	0.44	0.059
073935	Soil	0.87	38.50	35.07	93.7	102	36.9	16.8	662	3.73	27.0	4.0	3.7	7.5	35.7	0.25	0.60	0.54	13	0.56	0.054
073936	Soil	0.56	38.76	36.73	99.7	79	28.1	11.8	481	2.92	24.7	2.5	3.0	7.0	38.1	0.69	0.37	0.47	13	0.51	0.038
073937	Soil	0.64	28.98	171.83	122.1	140	32.4	10.8	358	3.53	182.2	1.2	5.9	8.4	8.4	0.51	1.03	0.48	12	0.06	0.053
073938	Soil	0.40	23.54	45.81	79.0	198	21.0	9.3	419	2.31	28.6	2.9	4.2	3.4	46.4	0.89	0.43	0.31	10	0.84	0.046
073939	Soil	1.00	35.99	33.22	98.9	64	40.7	17.1	643	4.27	31.7	5.0	2.3	7.8	31.6	0.13	0.63	0.52	13	0.47	0.046



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**Project:** None Given  
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# CERTIFICATE OF ANALYSIS

# WHI16000273.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
071960	Soil	28.1	14.2	0.27	52.1	0.017	<1	1.53	0.005	0.05	0.2	1.8	0.09	<0.02	12	<0.1	0.02	5.6	1.07	<0.1	0.02
071961	Soil	28.4	20.0	0.45	55.3	0.016	<1	1.75	0.005	0.08	0.2	2.1	0.09	<0.02	28	0.3	0.03	4.6	1.13	<0.1	0.05
071962	Soil	19.8	13.3	0.30	54.5	0.009	<1	1.34	0.013	0.10	0.1	1.4	0.07	<0.02	13	0.2	0.04	3.9	0.78	<0.1	<0.02
071963	Soil	26.3	16.7	0.30	70.9	0.005	<1	1.61	0.008	0.04	0.1	1.6	0.09	<0.02	12	0.1	0.05	5.6	1.28	<0.1	<0.02
071964	Soil	27.2	18.8	0.48	56.4	0.018	<1	1.61	0.004	0.05	0.2	1.6	0.06	<0.02	13	<0.1	0.03	5.3	0.92	<0.1	0.03
071965	Soil	26.2	15.7	0.37	36.3	0.009	<1	1.41	0.006	0.08	0.1	1.8	0.09	<0.02	12	0.1	0.02	3.2	0.70	<0.1	0.05
071966	Soil	27.1	14.3	0.22	130.2	0.007	1	1.38	0.010	0.05	0.1	1.5	0.11	<0.02	5	0.2	0.03	4.6	1.63	<0.1	<0.02
071967	Soil	22.2	18.3	0.28	33.2	0.021	<1	1.36	0.005	0.03	0.3	1.4	0.08	<0.02	8	0.1	0.04	6.1	1.34	<0.1	0.04
071968	Soil	23.6	11.2	0.13	53.8	0.011	<1	0.70	0.008	0.05	0.2	0.8	0.06	<0.02	12	0.3	0.04	3.9	0.71	<0.1	<0.02
071969	Soil	33.7	23.5	0.59	60.4	0.006	2	1.94	0.023	0.23	0.1	3.2	0.07	<0.02	19	0.3	0.05	4.5	0.89	<0.1	0.14
071970	Soil	29.8	19.6	0.46	53.6	0.003	<1	1.61	0.010	0.09	<0.1	2.5	0.05	<0.02	13	0.1	0.05	4.0	0.68	<0.1	0.06
071731	Soil	17.3	17.9	0.32	49.4	0.001	<1	1.23	0.007	0.08	0.4	1.3	0.18	<0.02	18	0.2	0.07	3.9	5.41	<0.1	<0.02
071732	Soil	34.1	19.3	0.45	24.7	0.001	<1	1.29	0.003	0.06	0.3	1.7	0.05	<0.02	15	0.3	0.04	3.3	0.76	<0.1	<0.02
071733	Soil	29.5	13.6	0.23	32.2	0.002	<1	1.06	0.003	0.04	0.2	1.3	0.06	<0.02	5	<0.1	0.07	3.4	0.84	<0.1	<0.02
071734	Soil	28.8	20.2	0.31	29.9	0.003	<1	1.52	0.003	0.05	0.4	1.5	0.07	<0.02	23	0.6	0.06	4.4	1.18	<0.1	<0.02
071735	Soil	27.4	18.2	0.23	29.9	0.003	<1	1.21	0.005	0.05	0.3	1.3	0.07	<0.02	22	0.3	0.04	3.9	1.11	<0.1	<0.02
071736	Soil	26.3	13.9	0.12	25.9	0.015	<1	0.87	0.003	0.05	0.3	1.2	0.07	<0.02	16	0.2	0.06	6.1	1.42	<0.1	<0.02
071737	Soil	17.7	10.3	0.13	29.6	0.003	<1	0.66	0.008	0.05	0.2	0.8	0.09	<0.02	16	<0.1	0.08	3.0	2.00	<0.1	<0.02
071738	Soil	18.6	10.3	0.10	39.6	<0.001	2	0.68	0.004	0.05	0.3	1.3	0.08	<0.02	12	0.3	0.13	2.5	4.39	<0.1	<0.02
071739	Soil	19.7	21.4	0.34	19.6	0.002	2	1.27	0.003	0.04	0.2	1.3	0.05	<0.02	24	0.3	0.09	4.1	1.30	<0.1	<0.02
071740	Soil	22.9	10.5	0.07	14.9	0.001	<1	0.53	0.003	0.04	0.4	0.9	0.07	<0.02	15	0.2	0.05	3.4	1.70	<0.1	<0.02
073931	Soil	26.9	9.5	0.15	30.5	0.006	1	0.72	0.005	0.02	<0.1	0.6	0.04	<0.02	8	0.2	<0.02	4.6	0.83	<0.1	<0.02
073932	Soil	24.5	27.0	0.84	26.8	0.003	2	1.93	0.004	0.06	0.1	2.1	0.04	<0.02	13	0.2	0.05	5.4	0.66	<0.1	0.06
073933	Soil	14.0	21.9	0.64	57.1	0.002	2	1.73	0.007	0.07	0.1	1.9	0.12	0.04	45	0.5	0.06	4.7	1.33	<0.1	0.08
073934	Soil	17.0	24.3	0.67	41.0	0.001	2	1.72	0.005	0.05	<0.1	2.2	0.08	0.03	31	0.5	0.08	5.1	1.60	<0.1	0.09
073935	Soil	14.8	24.5	0.68	44.6	0.001	2	1.77	0.006	0.05	<0.1	2.2	0.07	0.04	38	0.5	0.06	5.0	1.83	<0.1	0.07
073936	Soil	13.7	18.4	0.38	58.8	0.002	<1	1.28	0.006	0.07	<0.1	1.4	0.09	0.03	24	0.3	0.04	4.3	2.16	<0.1	0.05
073937	Soil	18.9	20.7	0.49	23.8	0.002	1	1.35	0.004	0.05	0.2	1.5	0.17	0.02	40	0.3	0.07	4.8	1.74	<0.1	0.10
073938	Soil	8.2	13.0	0.34	42.2	0.003	1	1.06	0.014	0.04	0.1	1.1	0.24	0.04	41	0.3	0.04	3.3	1.33	<0.1	0.03
073939	Soil	17.3	29.4	0.87	27.6	0.001	1	2.01	0.006	0.04	<0.1	2.4	0.04	0.03	16	0.4	0.06	5.9	1.31	<0.1	0.09



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000273.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
071960	Soil	1.08	9.6	0.7	<0.05	2.1	2.67	55.4	0.02	<1	0.4	25.2	<10	<2
071961	Soil	1.07	11.8	0.6	<0.05	2.9	2.38	55.8	<0.02	<1	0.7	33.5	<10	<2
071962	Soil	0.75	12.9	0.5	<0.05	0.5	2.57	39.9	<0.02	<1	0.3	25.1	<10	<2
071963	Soil	0.61	12.2	0.8	<0.05	1.5	2.36	51.4	0.02	<1	0.3	37.6	<10	<2
071964	Soil	0.88	11.2	0.6	<0.05	2.3	2.34	52.5	<0.02	<1	0.4	37.3	<10	<2
071965	Soil	0.55	8.8	0.5	<0.05	2.9	3.54	50.3	<0.02	<1	0.6	28.2	<10	<2
071966	Soil	0.61	12.8	0.7	<0.05	1.3	1.97	53.0	<0.02	<1	0.2	21.2	<10	<2
071967	Soil	0.96	8.6	0.9	<0.05	2.3	2.02	43.8	0.03	<1	<0.1	34.4	<10	<2
071968	Soil	0.77	10.9	1.0	<0.05	0.4	1.75	45.6	<0.02	<1	0.2	12.7	<10	<2
071969	Soil	0.33	9.4	1.8	<0.05	5.9	5.74	65.1	<0.02	<1	0.4	48.3	<10	<2
071970	Soil	0.31	7.1	0.7	<0.05	3.7	5.47	56.5	0.02	<1	0.4	42.1	<10	<2
071731	Soil	0.14	10.6	0.7	<0.05	0.6	1.78	32.8	0.02	<1	0.3	25.8	<10	<2
071732	Soil	0.05	3.4	0.3	<0.05	1.3	2.60	60.9	<0.02	<1	0.1	34.1	<10	<2
071733	Soil	0.12	5.5	0.5	<0.05	0.5	1.69	53.0	0.03	<1	<0.1	17.4	<10	<2
071734	Soil	0.40	8.4	0.4	<0.05	1.1	1.67	53.4	0.02	<1	0.2	27.8	<10	<2
071735	Soil	0.26	7.2	0.6	<0.05	1.7	1.55	49.8	0.02	<1	0.3	19.7	<10	<2
071736	Soil	0.90	9.7	1.0	<0.05	0.5	1.86	49.9	<0.02	<1	<0.1	6.0	<10	<2
071737	Soil	0.19	8.5	0.4	<0.05	0.2	1.26	32.7	0.02	<1	0.2	8.3	<10	<2
071738	Soil	0.06	9.2	0.5	<0.05	0.5	1.91	30.3	0.03	<1	0.5	11.4	<10	<2
071739	Soil	0.19	7.3	0.5	<0.05	0.8	1.26	32.6	0.03	<1	0.3	27.8	<10	<2
071740	Soil	0.16	6.3	0.6	<0.05	0.2	1.35	40.4	0.02	<1	0.3	5.2	<10	3
073931	Soil	0.19	5.3	0.6	<0.05	0.1	1.43	49.8	<0.02	<1	0.2	9.1	<10	2
073932	Soil	0.11	3.8	0.4	<0.05	2.9	3.03	44.1	0.02	<1	0.4	60.7	<10	<2
073933	Soil	0.19	6.7	0.3	<0.05	2.6	3.44	24.8	<0.02	<1	0.6	46.7	<10	<2
073934	Soil	0.10	4.9	0.4	<0.05	2.6	4.75	29.5	0.03	<1	0.2	50.5	<10	2
073935	Soil	0.13	5.6	0.3	<0.05	2.4	4.50	25.1	0.02	<1	0.5	51.3	<10	<2
073936	Soil	0.17	9.1	0.4	<0.05	1.9	2.51	24.5	<0.02	<1	0.4	32.2	<10	<2
073937	Soil	0.10	7.1	0.6	<0.05	1.5	2.02	33.1	0.05	<1	0.3	38.6	<10	<2
073938	Soil	0.21	5.2	0.2	<0.05	1.6	1.79	14.7	0.02	<1	0.4	27.0	<10	<2
073939	Soil	0.07	3.5	0.2	<0.05	3.1	4.62	29.0	0.03	<1	0.2	62.3	<10	<2



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000273.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
073940	Soil	0.68	49.04	59.96	124.9	114	44.4	22.1	585	4.27	26.3	2.9	5.2	11.8	14.8	0.35	1.07	0.50	12	0.16	0.046
073941	Soil	0.46	36.77	33.92	92.7	95	37.9	16.6	692	3.65	19.9	2.7	1.8	7.3	39.9	0.20	0.48	0.45	14	0.85	0.054
073942	Soil	0.46	42.80	28.40	85.6	90	38.4	16.6	688	3.62	18.8	2.0	2.6	7.1	42.3	0.15	0.54	0.47	14	1.01	0.049
073943	Soil	0.37	32.58	39.67	105.4	58	41.6	16.0	550	3.60	44.1	3.8	8.1	7.4	25.2	0.34	0.51	0.38	14	0.53	0.049
073944	Soil	0.45	19.89	27.79	78.3	39	22.3	8.2	212	3.08	84.0	0.7	6.6	7.4	14.1	0.60	0.72	0.43	13	0.08	0.021
073945	Soil	0.43	33.98	48.06	108.8	222	36.8	12.6	362	3.41	251.6	1.7	11.9	8.2	24.1	0.55	0.84	0.50	12	0.21	0.044
073946	Soil	0.36	29.05	24.24	99.2	56	29.2	9.9	245	3.23	45.9	0.9	19.8	9.1	9.7	0.32	0.56	0.35	10	<0.01	0.025
073947	Soil	0.44	20.82	40.59	49.5	425	15.8	5.7	115	2.29	72.7	0.8	15.7	4.8	13.6	0.22	0.77	0.44	12	0.02	0.036
073948	Soil	0.45	24.61	51.75	75.6	106	21.6	8.0	246	3.37	179.2	0.8	24.9	7.6	8.9	0.23	0.94	0.48	14	<0.01	0.039
073949	Soil	0.67	28.86	60.50	103.5	363	31.0	12.2	483	4.78	175.4	1.1	50.3	8.4	10.5	0.34	1.02	0.63	22	0.03	0.053
073950	Soil	0.51	15.57	20.81	63.2	106	20.3	7.4	280	4.71	99.3	0.5	9.5	7.2	4.1	0.12	0.64	0.46	26	<0.01	0.070
071551	Soil	0.43	37.50	29.67	98.8	78	41.1	16.6	638	3.89	26.6	1.9	3.1	8.8	31.8	0.13	0.56	0.44	14	0.59	0.047
071552	Soil	0.39	35.48	30.12	95.0	81	39.4	15.5	632	3.81	25.9	2.0	7.7	8.3	31.2	0.16	0.54	0.46	14	0.57	0.048
071553	Soil	0.37	21.07	35.84	112.2	94	27.8	8.5	300	3.15	132.2	1.0	10.4	6.7	24.1	0.67	0.67	0.43	10	0.27	0.033
071554	Soil	0.67	18.84	32.12	80.9	88	17.8	6.4	164	2.68	180.8	0.6	10.9	5.6	10.9	0.75	0.97	0.56	14	0.02	0.031
071555	Soil	0.53	25.92	93.61	113.8	105	24.0	9.5	296	3.09	180.2	1.1	16.3	4.8	12.5	0.60	0.88	0.94	13	0.02	0.060
071556	Soil	0.59	16.03	19.40	58.9	109	11.8	5.3	117	2.72	186.8	0.6	9.8	4.2	6.0	0.30	0.95	0.44	19	<0.01	0.035
071557	Soil	0.66	18.85	27.45	62.9	79	15.6	6.7	201	4.01	221.1	0.7	8.8	5.4	7.0	0.23	1.10	0.59	24	<0.01	0.074
071558	Soil	0.43	10.67	15.93	35.6	80	8.5	3.8	108	1.65	99.6	0.5	26.2	1.1	5.2	0.16	0.62	0.30	15	<0.01	0.037
071559	Soil	0.61	19.38	28.76	73.0	176	18.0	7.5	209	4.00	318.7	0.6	20.9	7.5	8.5	0.18	1.58	0.54	15	<0.01	0.037
071560	Soil	0.47	12.49	14.95	43.2	76	10.3	4.2	96	1.69	117.6	0.6	8.2	2.4	6.3	0.10	0.60	0.45	21	<0.01	0.025
071701	Soil	0.50	19.07	15.56	68.6	48	21.4	10.0	276	2.85	223.5	0.8	38.2	8.3	19.5	0.11	0.69	0.33	9	0.03	0.021
071702	Soil	0.32	28.45	44.76	174.4	148	40.4	18.3	826	3.41	736.2	1.5	20.5	8.4	21.4	1.17	0.66	1.22	12	0.10	0.044
071703	Soil	0.69	18.92	30.98	90.6	59	23.2	8.5	289	3.90	104.3	0.8	5.5	8.7	8.1	0.19	0.55	0.57	26	0.02	0.028
071704	Soil	0.44	19.14	22.92	74.6	150	27.1	9.2	274	4.37	137.2	0.7	358.5	9.5	5.1	0.10	0.67	0.55	16	<0.01	0.035
071705	Soil	0.50	17.43	20.73	76.0	109	26.3	8.7	272	4.41	142.9	0.7	10.1	9.5	5.0	0.10	0.63	0.59	18	<0.01	0.034
071706	Soil	0.45	19.42	31.79	78.2	115	28.7	10.2	338	4.23	116.5	0.8	8.0	8.2	14.1	0.16	0.48	0.66	19	0.02	0.032
071707	Soil	0.41	32.91	32.75	92.3	85	33.4	12.2	395	3.97	133.0	1.3	73.6	9.7	12.5	0.11	0.67	0.60	13	0.10	0.026
071708	Soil	0.57	19.48	29.67	89.6	41	29.1	10.2	222	3.34	112.7	0.9	7.6	8.2	17.0	0.11	0.60	0.46	14	0.01	0.022
071709	Soil	0.53	19.17	21.26	66.3	38	15.2	6.6	179	4.28	137.3	0.7	13.0	8.6	7.3	0.11	0.81	0.54	23	<0.01	0.033



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**Project:** None Given  
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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
073940	Soil	23.1	22.6	0.58	26.8	0.002	1	1.43	0.004	0.06	<0.1	2.2	0.12	<0.02	34	0.2	0.10	4.4	1.33	<0.1	0.04
073941	Soil	15.7	26.0	0.81	50.5	0.002	1	2.00	0.007	0.08	<0.1	2.2	0.07	0.04	47	0.5	0.04	5.4	1.18	<0.1	0.07
073942	Soil	13.9	26.1	0.84	65.9	0.001	<1	2.13	0.009	0.09	<0.1	2.4	0.07	0.05	30	0.6	0.05	5.6	1.35	<0.1	0.14
073943	Soil	16.3	27.3	0.77	48.7	0.002	<1	1.94	0.006	0.05	<0.1	2.3	0.11	0.04	47	0.7	0.05	5.5	1.67	<0.1	0.10
073944	Soil	20.9	16.2	0.35	27.2	0.002	<1	1.12	0.003	0.04	0.2	1.2	0.11	<0.02	12	0.2	0.06	4.1	1.55	<0.1	<0.02
073945	Soil	14.6	18.1	0.39	47.3	0.002	<1	1.27	0.005	0.05	0.2	1.8	0.22	0.03	69	0.6	0.08	4.1	3.69	<0.1	0.04
073946	Soil	25.4	17.6	0.35	23.4	0.001	<1	1.16	0.002	0.04	0.2	1.2	0.11	<0.02	10	0.1	0.06	3.9	2.03	<0.1	<0.02
073947	Soil	13.2	9.9	0.07	30.0	0.001	<1	0.71	0.003	0.06	0.4	0.8	0.25	<0.02	43	0.3	0.06	3.0	1.86	<0.1	0.02
073948	Soil	25.6	15.9	0.21	30.0	0.002	<1	0.92	0.003	0.05	0.3	1.2	0.09	<0.02	21	0.2	0.07	4.5	1.71	<0.1	<0.02
073949	Soil	25.6	25.0	0.52	34.6	0.004	<1	1.74	0.004	0.06	0.3	1.9	0.09	<0.02	33	0.4	0.09	7.0	1.94	<0.1	0.05
073950	Soil	28.0	21.7	0.40	17.8	0.004	<1	1.41	0.003	0.03	0.2	1.2	0.04	<0.02	8	0.1	0.06	7.1	0.94	<0.1	<0.02
071551	Soil	19.1	27.2	0.83	50.8	0.002	<1	2.09	0.007	0.07	<0.1	2.4	0.06	0.03	29	0.4	0.05	5.9	1.22	<0.1	0.10
071552	Soil	19.1	28.4	0.82	53.8	0.002	<1	2.07	0.007	0.08	<0.1	2.2	0.05	0.03	27	0.6	0.06	5.9	1.27	<0.1	0.09
071553	Soil	12.3	16.0	0.40	39.0	0.002	<1	1.16	0.008	0.05	0.2	1.3	0.16	0.02	26	0.4	0.08	4.0	3.14	<0.1	<0.02
071554	Soil	19.7	12.0	0.15	27.9	0.002	<1	0.79	0.004	0.04	0.3	1.0	0.11	<0.02	10	0.1	0.08	4.0	1.58	<0.1	<0.02
071555	Soil	13.1	15.8	0.24	46.7	0.002	<1	1.07	0.006	0.07	0.3	1.3	0.19	0.02	25	0.2	0.08	4.1	3.78	<0.1	0.04
071556	Soil	20.5	8.0	0.03	16.6	0.008	<1	0.38	0.008	0.03	0.4	0.9	0.06	<0.02	9	0.2	0.04	4.7	0.77	<0.1	<0.02
071557	Soil	24.0	14.0	0.10	21.3	0.007	<1	0.86	0.004	0.04	0.3	1.1	0.09	<0.02	16	0.2	0.08	6.0	1.35	<0.1	<0.02
071558	Soil	23.8	6.8	0.05	14.4	0.005	<1	0.43	0.007	0.03	0.2	0.5	0.06	<0.02	9	<0.1	0.03	3.9	1.01	<0.1	<0.02
071559	Soil	28.0	18.0	0.17	24.7	0.002	<1	1.02	0.003	0.04	0.3	1.3	0.09	<0.02	16	0.2	0.11	4.6	1.33	<0.1	<0.02
071560	Soil	26.6	6.5	0.03	12.2	0.007	<1	0.40	0.002	0.03	0.2	0.8	0.07	<0.02	8	<0.1	0.04	4.2	0.90	<0.1	<0.02
071701	Soil	19.9	11.6	0.11	32.1	<0.001	<1	0.64	0.003	0.06	0.6	1.3	0.09	<0.02	9	0.2	0.06	2.0	1.17	<0.1	<0.02
071702	Soil	17.8	18.2	0.34	71.1	0.002	<1	1.51	0.007	0.08	0.3	2.2	0.19	0.02	50	0.4	0.07	4.4	3.52	<0.1	0.05
071703	Soil	29.9	23.7	0.44	44.3	0.011	<1	1.68	0.003	0.06	0.3	1.9	0.08	<0.02	14	0.2	0.07	6.8	1.58	<0.1	<0.02
071704	Soil	28.3	23.2	0.55	34.0	0.003	<1	1.67	0.004	0.05	0.3	1.5	0.05	<0.02	22	0.2	0.07	4.9	1.05	<0.1	0.06
071705	Soil	31.0	23.7	0.53	36.8	0.004	<1	1.63	0.004	0.05	0.3	1.5	0.05	<0.02	22	0.2	0.05	5.6	0.90	<0.1	0.03
071706	Soil	26.9	22.4	0.46	48.6	0.002	<1	1.70	0.005	0.07	0.9	1.5	0.19	<0.02	16	0.2	0.08	6.2	4.41	<0.1	0.02
071707	Soil	27.8	24.0	0.62	39.1	0.002	<1	1.66	0.005	0.06	0.2	1.8	0.05	<0.02	9	<0.1	0.04	4.4	1.27	<0.1	<0.02
071708	Soil	25.9	15.8	0.28	30.3	0.003	<1	0.95	0.004	0.05	0.6	1.5	0.06	<0.02	9	<0.1	0.05	3.4	2.14	<0.1	<0.02
071709	Soil	32.7	14.5	0.11	24.6	0.005	<1	0.83	0.004	0.05	0.4	1.2	0.08	<0.02	11	<0.1	0.06	6.0	1.12	<0.1	0.04



Bureau Veritas Commodities Canada Ltd.

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**Client:** Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000273.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
073940	Soil	0.05	4.1	0.3	<0.05	2.6	3.53	40.7	0.03	<1	0.5	39.4	<10	<2
073941	Soil	0.17	5.9	0.2	<0.05	3.3	4.42	28.7	0.02	<1	0.5	55.9	<10	<2
073942	Soil	0.19	6.8	0.2	<0.05	4.9	4.78	24.2	0.02	<1	0.3	58.5	<10	<2
073943	Soil	0.19	5.2	0.2	<0.05	3.7	4.73	28.8	0.03	<1	0.6	56.6	<10	4
073944	Soil	0.15	5.5	0.5	<0.05	0.7	1.53	35.2	0.02	<1	0.3	26.4	<10	<2
073945	Soil	0.20	9.0	0.3	<0.05	1.5	2.64	25.1	0.02	<1	0.4	31.3	<10	<2
073946	Soil	0.12	7.2	0.3	<0.05	0.5	1.51	44.0	<0.02	<1	0.1	30.1	<10	<2
073947	Soil	0.18	7.3	0.4	<0.05	0.6	1.08	22.2	<0.02	<1	0.1	4.4	<10	<2
073948	Soil	0.20	8.6	0.5	<0.05	0.4	1.68	43.9	0.02	<1	0.2	15.4	<10	<2
073949	Soil	0.45	9.9	0.7	<0.05	1.1	2.23	46.7	0.03	<1	0.3	36.3	<10	3
073950	Soil	0.44	5.2	0.6	<0.05	0.5	1.42	49.6	<0.02	<1	<0.1	27.9	<10	<2
071551	Soil	0.20	6.1	0.2	<0.05	3.8	4.75	34.1	0.02	<1	0.6	55.9	<10	<2
071552	Soil	0.22	6.1	0.2	<0.05	3.6	4.61	33.1	0.02	<1	0.3	59.1	<10	<2
071553	Soil	0.17	7.1	0.4	<0.05	1.0	1.60	21.3	<0.02	<1	0.2	31.1	<10	<2
071554	Soil	0.21	5.7	0.7	<0.05	0.3	1.42	34.2	<0.02	<1	<0.1	11.6	<10	<2
071555	Soil	0.19	11.7	0.4	<0.05	0.9	1.78	22.7	0.04	<1	0.2	20.5	<10	3
071556	Soil	0.42	4.8	0.9	<0.05	0.1	1.39	36.2	<0.02	<1	<0.1	1.6	<10	<2
071557	Soil	0.55	8.5	0.8	<0.05	0.2	1.66	42.5	<0.02	<1	<0.1	5.7	<10	<2
071558	Soil	0.13	5.2	1.3	<0.05	0.9	1.45	42.5	<0.02	<1	<0.1	2.9	<10	<2
071559	Soil	0.31	9.8	0.6	<0.05	0.9	1.48	48.5	0.03	<1	0.2	14.6	<10	<2
071560	Soil	0.16	5.4	1.0	<0.05	<0.1	1.51	47.1	<0.02	<1	<0.1	0.8	<10	<2
071701	Soil	0.05	7.4	0.8	<0.05	0.3	1.45	35.3	<0.02	<1	0.2	9.2	<10	<2
071702	Soil	0.16	12.4	0.3	<0.05	1.6	5.12	32.3	0.03	<1	0.5	37.3	<10	<2
071703	Soil	0.86	9.5	0.7	<0.05	1.3	2.48	53.4	0.03	<1	0.2	37.5	<10	<2
071704	Soil	0.24	6.0	0.6	<0.05	2.8	1.76	51.6	0.04	<1	0.3	41.2	<10	<2
071705	Soil	0.32	5.8	0.4	<0.05	2.0	1.87	55.0	0.03	<1	0.3	41.3	<10	<2
071706	Soil	0.28	13.3	1.2	<0.05	1.2	2.27	48.3	<0.02	<1	0.2	48.6	<10	<2
071707	Soil	0.10	5.7	0.6	<0.05	0.9	2.70	49.8	0.04	<1	0.3	49.7	<10	<2
071708	Soil	0.16	7.4	0.9	<0.05	0.6	1.67	46.9	0.02	<1	0.2	25.6	<10	<2
071709	Soil	0.37	10.1	0.8	<0.05	2.5	1.67	56.1	<0.02	<1	0.2	9.3	<10	<2



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000273.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
071710	Soil	0.53	22.61	26.87	84.3	101	21.6	8.3	217	4.73	160.6	0.9	23.7	7.7	7.7	0.19	0.84	0.64	18	<0.01	0.060
071711	Soil	0.34	18.96	33.83	133.3	218	25.8	8.7	348	3.17	609.8	0.9	37.6	7.2	16.8	0.45	0.46	0.80	12	0.10	0.036
071712	Soil	0.30	15.86	23.22	78.5	113	25.0	7.8	206	3.13	471.4	0.6	20.9	9.5	11.6	0.13	0.64	0.87	10	0.01	0.020
071713	Soil	0.55	13.44	24.28	55.5	88	12.8	6.4	201	3.67	151.9	0.6	36.4	7.8	6.7	0.32	0.63	0.63	24	0.01	0.040
071714	Soil	0.40	26.01	24.72	84.3	34	27.8	8.7	234	3.97	189.8	0.7	28.9	8.1	8.8	0.23	0.74	0.54	12	0.01	0.033
071715	Soil	0.27	17.62	33.88	64.9	79	16.6	6.4	230	2.41	523.6	0.7	17.7	7.5	17.3	0.16	0.60	1.21	9	0.03	0.015
071716	Soil	0.38	18.41	18.85	66.2	80	19.2	6.5	178	3.59	616.1	0.7	37.2	8.1	9.5	0.19	0.73	0.93	17	0.02	0.021
071717	Soil	0.21	5.27	9.16	18.8	115	6.4	1.6	78	0.67	174.9	0.4	6.1	3.8	14.8	0.14	0.20	0.58	8	0.04	0.011
071718	Soil	0.69	12.88	19.53	50.3	82	11.4	5.7	186	3.06	175.1	0.7	7.8	6.3	7.4	0.15	0.62	0.63	32	0.02	0.042
071719	Soil	0.57	18.84	22.34	73.7	113	17.9	8.0	229	5.15	262.7	0.6	10.5	8.2	7.9	0.15	0.77	1.07	24	<0.01	0.078
071720	Soil	0.51	22.41	16.53	63.2	47	14.7	6.2	150	3.15	356.3	0.6	8.6	6.4	9.4	0.13	0.84	0.82	19	<0.01	0.049
071581	Soil	0.98	27.84	21.78	108.7	111	33.9	11.9	281	3.44	32.4	1.9	2.0	11.7	24.0	0.22	0.78	0.57	22	0.24	0.089
071582	Soil	0.47	28.89	25.20	98.5	61	34.3	13.7	434	4.29	60.9	1.2	3.5	12.2	13.5	0.09	0.56	0.67	18	0.08	0.047
071583	Soil	0.49	28.13	27.46	84.8	80	30.1	13.8	437	4.06	61.0	1.2	3.5	11.6	9.9	0.12	0.71	0.67	16	0.04	0.036
071584	Soil	0.58	31.86	32.76	89.6	143	30.2	13.3	375	4.26	95.0	1.2	6.0	10.0	12.3	0.15	0.89	0.77	14	0.08	0.047
071585	Soil	0.57	30.59	30.17	94.3	149	34.0	16.3	559	4.21	118.3	1.1	6.4	9.6	17.2	0.15	0.83	0.83	15	0.12	0.045
071586	Soil	0.55	15.13	19.07	60.0	271	15.9	6.3	209	3.29	111.4	0.6	6.0	4.3	8.8	0.18	0.64	0.58	20	0.02	0.049
071587	Soil	0.33	20.93	26.85	71.8	95	18.6	7.6	319	2.49	274.4	0.8	10.7	4.0	17.0	0.22	0.72	0.68	12	0.07	0.032
071588	Soil	0.45	25.58	29.28	84.2	49	26.2	8.8	234	3.94	355.2	0.8	13.4	9.1	12.4	0.14	0.89	1.02	13	<0.01	0.025
071589	Soil	0.53	20.74	30.72	87.9	124	25.6	8.7	272	4.22	234.6	0.8	53.2	10.4	8.8	0.17	0.72	0.79	18	<0.01	0.030
071590	Soil	0.57	29.16	36.53	112.6	210	30.8	10.3	252	4.27	461.9	1.1	9.3	9.3	12.8	0.36	0.85	1.37	16	<0.01	0.022
071591	Soil	0.60	28.32	34.49	118.5	247	30.2	9.8	238	4.20	421.4	1.1	103.8	8.7	12.3	0.37	0.80	1.29	17	<0.01	0.024
071592	Soil	0.48	18.44	20.30	62.6	84	16.5	6.0	189	2.91	331.3	0.6	15.6	4.7	15.7	0.17	0.80	1.11	17	0.07	0.035
071593	Soil	0.48	22.39	38.88	98.2	136	26.2	10.3	277	4.16	275.4	0.9	63.5	9.3	9.2	0.39	0.89	0.80	16	0.01	0.046
071594	Soil	0.60	22.30	36.27	92.3	175	27.3	10.5	302	4.33	292.9	0.8	11.4	8.8	8.1	0.23	1.03	0.82	15	<0.01	0.034
071595	Soil	0.42	31.30	39.89	101.2	56	33.7	12.1	256	3.80	299.6	0.9	26.6	10.4	8.7	0.20	0.90	1.01	12	<0.01	0.017
071596	Soil	0.42	25.66	31.71	119.0	145	28.1	18.6	877	3.48	637.2	0.8	91.0	6.5	21.6	0.51	0.85	2.25	13	0.12	0.041
071597	Soil	0.35	30.71	34.74	146.1	264	37.3	13.2	680	3.13	496.7	1.2	18.6	6.5	30.7	0.76	0.63	0.95	12	0.21	0.046
071598	Soil	0.51	19.33	24.38	73.0	31	22.9	7.7	238	4.61	102.2	0.6	8.9	8.2	6.6	0.10	0.72	0.52	17	<0.01	0.036
071599	Soil	0.38	11.12	20.06	50.0	58	13.7	5.4	227	1.99	74.4	0.6	3.1	5.4	7.4	0.08	0.31	0.43	14	0.02	0.036



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000273.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
071710	Soil	28.1	16.8	0.22	23.4	0.004	<1	1.03	0.003	0.04	0.4	1.2	0.05	<0.02	18	0.2	0.07	5.3	0.93	<0.1	0.03
071711	Soil	19.9	17.9	0.41	56.5	0.002	<1	1.32	0.007	0.07	0.2	1.5	0.11	<0.02	28	<0.1	0.04	4.0	3.65	<0.1	0.02
071712	Soil	26.7	16.4	0.34	22.1	0.001	<1	1.16	0.003	0.05	0.3	1.1	0.11	<0.02	15	0.1	0.04	3.6	1.34	<0.1	<0.02
071713	Soil	30.3	13.9	0.13	25.3	0.008	<1	0.92	0.003	0.04	0.3	1.2	0.07	<0.02	13	0.2	0.09	5.7	1.09	<0.1	<0.02
071714	Soil	27.0	20.0	0.40	25.1	0.002	<1	1.33	0.003	0.04	0.3	1.4	0.04	<0.02	21	0.2	0.06	4.2	1.09	<0.1	<0.02
071715	Soil	20.4	10.0	0.13	38.2	<0.001	<1	0.80	0.003	0.07	0.3	1.0	0.14	<0.02	14	<0.1	0.06	2.7	2.03	<0.1	<0.02
071716	Soil	32.3	15.3	0.27	36.1	0.003	<1	1.06	0.003	0.04	0.3	1.3	0.07	<0.02	14	<0.1	0.05	5.0	0.86	<0.1	<0.02
071717	Soil	21.3	4.3	0.04	41.3	0.003	<1	0.51	0.012	0.04	0.2	0.7	0.11	<0.02	10	<0.1	0.03	2.5	1.23	<0.1	<0.02
071718	Soil	26.1	13.0	0.12	25.4	0.018	<1	0.91	0.004	0.04	0.3	1.2	0.08	<0.02	14	<0.1	0.06	6.1	1.00	<0.1	<0.02
071719	Soil	26.7	19.1	0.20	25.2	0.006	<1	1.11	0.003	0.05	0.5	1.5	0.07	<0.02	12	<0.1	0.06	5.9	1.17	<0.1	<0.02
071720	Soil	29.7	8.4	0.04	16.6	0.003	<1	0.55	0.003	0.03	0.4	1.0	0.07	<0.02	8	<0.1	0.06	4.6	0.86	<0.1	<0.02
071581	Soil	35.5	28.8	0.96	50.9	0.010	<1	1.85	0.006	0.06	0.6	2.6	0.08	<0.02	12	0.3	0.03	5.2	1.89	<0.1	0.06
071582	Soil	33.3	28.5	0.68	68.5	0.005	<1	1.95	0.009	0.11	0.3	2.6	0.08	<0.02	21	<0.1	0.04	5.2	1.75	<0.1	0.03
071583	Soil	28.5	23.7	0.58	51.0	0.004	<1	1.60	0.006	0.09	0.2	2.0	0.06	<0.02	18	0.2	0.05	4.4	1.37	<0.1	0.04
071584	Soil	22.0	21.4	0.48	55.7	0.003	<1	1.47	0.007	0.09	0.3	1.9	0.08	<0.02	21	0.2	0.02	4.3	1.77	<0.1	0.02
071585	Soil	21.3	22.7	0.56	68.5	0.003	<1	1.54	0.007	0.11	0.3	2.1	0.09	<0.02	20	0.2	0.05	4.5	2.19	<0.1	0.03
071586	Soil	22.8	14.3	0.20	26.1	0.007	<1	0.89	0.003	0.05	0.3	1.0	0.06	<0.02	15	0.2	0.07	4.9	1.36	<0.1	<0.02
071587	Soil	16.6	13.2	0.24	45.4	0.003	<1	0.93	0.011	0.07	0.2	1.2	0.08	<0.02	14	<0.1	0.05	3.3	3.16	<0.1	<0.02
071588	Soil	26.5	17.8	0.30	27.1	0.003	<1	1.12	0.003	0.05	0.4	1.5	0.07	<0.02	15	<0.1	0.06	3.4	1.33	<0.1	<0.02
071589	Soil	26.2	23.9	0.40	43.2	0.004	<1	1.89	0.004	0.05	0.3	1.6	0.07	<0.02	34	0.2	0.05	4.5	1.82	<0.1	0.05
071590	Soil	22.9	21.6	0.37	31.4	0.005	<1	1.36	0.004	0.05	0.3	1.8	0.09	<0.02	26	<0.1	0.05	4.2	1.55	<0.1	<0.02
071591	Soil	25.0	20.5	0.36	31.2	0.005	<1	1.38	0.004	0.05	0.3	1.8	0.08	<0.02	22	<0.1	0.05	4.1	1.60	<0.1	0.02
071592	Soil	26.7	10.2	0.11	29.2	0.005	<1	0.57	0.003	0.04	0.4	0.9	0.06	<0.02	7	<0.1	0.05	3.8	0.77	<0.1	<0.02
071593	Soil	23.0	20.3	0.33	24.5	0.007	<1	1.20	0.003	0.04	0.3	1.6	0.05	<0.02	13	0.1	0.07	3.7	1.08	<0.1	<0.02
071594	Soil	23.0	19.9	0.29	38.0	0.004	<1	1.47	0.003	0.04	0.3	1.6	0.06	<0.02	22	0.2	0.05	3.9	1.02	<0.1	0.03
071595	Soil	25.6	20.8	0.41	36.2	0.002	<1	1.62	0.003	0.05	0.2	1.6	0.05	<0.02	16	<0.1	0.06	3.8	1.08	<0.1	0.05
071596	Soil	22.2	19.3	0.36	55.5	0.002	<1	1.21	0.006	0.08	0.4	1.4	0.17	<0.02	18	<0.1	0.06	4.1	2.99	<0.1	0.04
071597	Soil	18.6	17.9	0.40	70.7	0.002	<1	1.33	0.007	0.07	0.3	1.6	0.13	<0.02	33	0.2	0.08	3.8	3.20	<0.1	0.03
071598	Soil	28.8	21.1	0.32	39.3	0.002	<1	1.48	0.004	0.05	0.2	1.4	0.07	<0.02	21	0.2	0.07	5.4	1.34	<0.1	0.02
071599	Soil	28.6	14.0	0.26	41.9	0.003	<1	1.16	0.005	0.05	0.2	1.1	0.07	<0.02	9	<0.1	0.04	4.7	1.14	<0.1	0.03



Bureau Veritas Commodities Canada Ltd.

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PHONE (604) 253-3158

**Client:** Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

**Project:** None Given  
**Report Date:** September 23, 2016

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**Part:** 3 of 3

# CERTIFICATE OF ANALYSIS

WHI16000273.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	10	2	
071710	Soil	0.42	7.1	0.9	<0.05	0.7	1.86	48.9	<0.02	<1	0.1	16.8	<10	<2
071711	Soil	0.17	10.4	0.4	<0.05	0.9	2.16	35.0	0.02	<1	0.4	33.7	<10	<2
071712	Soil	0.11	7.6	0.6	<0.05	0.8	1.42	47.4	0.03	<1	0.3	30.5	<10	<2
071713	Soil	0.65	9.4	0.7	<0.05	1.2	1.79	54.3	0.03	<1	0.2	9.3	<10	<2
071714	Soil	0.18	7.1	0.4	<0.05	1.1	1.78	47.7	<0.02	<1	0.3	31.5	<10	<2
071715	Soil	0.06	9.7	0.3	<0.05	0.5	1.70	37.7	<0.02	<1	0.3	12.1	<10	<2
071716	Soil	0.23	6.8	0.8	<0.05	0.9	2.29	56.1	<0.02	<1	<0.1	23.0	<10	<2
071717	Soil	0.19	8.8	0.6	<0.05	0.2	1.51	38.3	<0.02	<1	0.1	2.6	<10	<2
071718	Soil	1.04	6.7	1.3	<0.05	0.7	1.96	47.3	<0.02	<1	0.1	7.3	<10	<2
071719	Soil	0.60	8.5	0.8	<0.05	1.2	1.57	48.5	0.03	<1	0.2	17.8	<10	<2
071720	Soil	0.22	5.2	0.5	<0.05	0.2	1.64	53.3	<0.02	<1	<0.1	2.4	<10	<2
071581	Soil	0.30	7.1	0.4	<0.05	3.3	8.05	66.0	<0.02	<1	0.6	53.3	<10	<2
071582	Soil	0.19	9.1	0.5	<0.05	1.7	5.00	59.8	0.03	<1	0.4	52.4	<10	<2
071583	Soil	0.21	7.2	0.6	<0.05	1.3	3.93	49.5	0.03	<1	0.5	40.7	<10	<2
071584	Soil	0.23	8.5	0.6	<0.05	1.0	3.83	39.1	0.03	<1	0.5	34.1	<10	<2
071585	Soil	0.25	10.0	0.6	<0.05	1.3	3.71	37.7	0.02	<1	0.4	37.0	<10	<2
071586	Soil	0.46	7.6	0.6	<0.05	0.4	1.48	40.2	<0.02	<1	0.2	12.7	<10	<2
071587	Soil	0.13	11.9	1.1	<0.05	0.3	1.94	30.0	0.02	<1	0.2	23.4	<10	<2
071588	Soil	0.28	8.9	0.7	<0.05	0.9	1.77	50.9	<0.02	<1	0.2	23.3	<10	<2
071589	Soil	0.43	13.3	0.6	<0.05	3.5	2.02	47.0	0.03	<1	0.5	35.4	<10	<2
071590	Soil	0.38	9.8	0.9	<0.05	1.0	2.13	41.5	0.03	<1	0.4	35.0	<10	<2
071591	Soil	0.44	9.9	0.9	<0.05	0.8	2.15	44.6	0.03	<1	0.5	33.4	<10	<2
071592	Soil	0.28	6.9	0.7	<0.05	0.1	1.79	47.2	<0.02	<1	<0.1	6.2	<10	<2
071593	Soil	0.33	7.3	0.4	<0.05	1.3	1.94	42.2	<0.02	<1	0.4	27.8	<10	<2
071594	Soil	0.31	7.2	0.5	<0.05	3.0	1.87	41.7	0.04	<1	0.4	29.5	<10	<2
071595	Soil	0.12	7.5	0.7	<0.05	3.2	1.82	45.4	0.03	<1	0.3	38.5	<10	<2
071596	Soil	0.12	14.2	0.5	<0.05	0.8	1.99	38.8	0.03	<1	0.3	30.9	<10	<2
071597	Soil	0.14	10.7	0.5	<0.05	1.1	3.62	32.6	<0.02	<1	0.3	33.3	<10	<2
071598	Soil	0.39	7.4	0.5	<0.05	1.3	1.58	50.2	0.03	<1	0.1	25.5	<10	<2
071599	Soil	0.17	7.3	1.0	<0.05	0.9	1.74	51.1	<0.02	<1	0.2	20.8	<10	<2



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**Project:** None Given  
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# CERTIFICATE OF ANALYSIS

# WHI16000273.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
071600	Soil	0.54	28.53	23.89	86.5	41	30.0	9.4	301	4.90	76.1	0.7	14.8	9.0	5.1	0.07	0.54	0.62	15	<0.01	0.022
073871	Soil	0.46	20.63	25.65	69.2	139	22.1	7.3	254	3.84	126.2	0.5	76.3	6.5	5.5	0.15	0.93	0.43	18	0.01	0.060
073872	Soil	0.49	28.15	23.43	88.5	73	29.3	9.8	267	3.41	86.3	0.9	3.6	8.7	6.8	0.10	0.64	0.55	11	<0.01	0.026
073873	Soil	0.71	31.70	29.98	94.8	131	34.1	13.4	481	3.40	58.1	1.6	8.1	9.4	35.6	0.29	0.85	0.57	13	0.53	0.049
073874	Soil	0.64	34.17	27.30	110.6	101	36.9	14.0	614	4.25	131.5	1.5	16.0	9.9	14.8	0.09	0.72	0.84	11	0.09	0.041
073875	Soil	0.57	29.93	29.86	99.8	152	33.7	13.6	575	3.73	87.0	1.4	12.1	10.1	12.7	0.13	1.07	0.76	13	0.09	0.038
073876	Soil	0.57	34.27	31.72	103.8	130	38.4	16.6	528	4.30	119.9	1.5	11.7	11.0	11.1	0.15	0.79	0.75	10	0.08	0.035
073877	Soil	0.48	31.91	26.37	88.8	82	34.9	17.3	596	3.51	67.6	1.4	6.0	10.2	9.4	0.13	0.63	0.64	11	0.05	0.031
073878	Soil	0.53	32.62	32.43	109.8	104	35.1	14.7	532	4.03	99.6	1.2	4.3	10.1	21.4	0.31	0.82	0.67	15	0.29	0.040
073879	Soil	0.61	33.44	26.74	97.7	71	35.0	15.7	687	3.87	57.9	1.1	3.2	11.3	11.0	0.09	0.86	0.62	15	0.05	0.037
073880	Soil	0.59	27.58	22.92	86.1	83	29.7	12.6	429	3.72	51.9	1.0	2.9	10.6	8.2	0.18	0.80	0.57	14	0.03	0.036
073881	Soil	0.69	32.02	31.04	98.4	133	33.7	17.0	659	3.85	163.5	1.4	4.8	10.0	15.7	0.22	0.90	0.74	13	0.15	0.044
073882	Soil	0.63	26.17	29.83	83.2	131	28.6	13.3	439	3.72	190.5	1.2	8.3	9.6	14.5	0.15	0.83	0.73	13	0.14	0.046
073883	Soil	0.63	30.09	24.70	91.3	92	33.2	13.4	478	3.79	153.0	1.3	4.9	10.9	15.3	0.03	0.82	0.72	15	0.14	0.052
073884	Soil	0.62	37.79	30.08	97.6	233	38.7	16.0	699	4.12	55.3	1.6	6.6	10.2	18.0	0.10	0.68	0.77	14	0.16	0.057
073885	Soil	0.48	33.90	28.47	93.0	58	31.7	14.4	550	3.89	74.9	1.4	4.5	12.1	10.0	0.17	0.71	0.64	12	0.05	0.037
073886	Soil	0.75	34.88	28.16	109.8	238	36.1	14.3	620	4.28	83.2	1.1	2.5	8.1	23.4	0.13	0.84	0.98	16	0.17	0.072
073887	Soil	0.49	22.28	20.90	64.7	204	15.7	6.3	147	3.92	135.6	0.6	2.5	6.0	5.8	0.17	0.62	0.60	16	<0.01	0.058
073888	Soil	0.36	10.77	8.03	45.1	24	8.7	3.7	75	1.42	116.7	0.4	13.3	3.1	6.0	0.09	0.59	0.26	22	<0.01	0.020
073889	Soil	0.54	26.55	40.04	92.9	141	22.0	7.3	194	3.58	540.1	0.9	22.4	8.2	11.1	0.26	1.41	0.88	11	<0.01	0.033
073890	Soil	0.67	13.97	22.16	48.1	83	13.0	5.1	144	2.28	221.3	0.6	12.0	4.4	8.0	0.13	0.63	0.47	12	0.02	0.033
073891	Soil	0.43	26.94	31.57	88.5	410	22.0	8.2	184	3.80	161.6	0.8	32.8	8.4	13.2	0.23	1.36	0.68	10	<0.01	0.041
073892	Soil	0.50	29.93	41.61	100.4	732	26.4	8.7	213	3.66	160.2	0.9	16.1	9.2	13.8	0.25	1.36	0.65	9	<0.01	0.033
073893	Soil	0.49	14.62	13.03	44.9	100	10.8	4.7	92	2.08	117.5	0.5	3.0	4.3	8.7	0.20	0.76	0.49	14	<0.01	0.048
073894	Soil	0.47	11.55	10.73	48.3	143	11.4	4.2	86	1.87	102.6	0.4	3.9	4.2	8.8	0.24	0.59	0.51	19	<0.01	0.025
073895	Soil	0.52	15.34	18.74	58.9	94	12.4	5.7	201	3.05	143.6	0.6	31.5	8.7	5.6	0.14	0.71	0.56	20	<0.01	0.035
073896	Soil	0.53	21.99	27.50	64.0	121	18.7	6.4	215	3.16	136.3	0.9	108.9	5.0	6.7	0.45	0.68	0.65	17	<0.01	0.047
073897	Soil	0.60	17.33	30.74	72.9	224	18.9	6.5	220	2.44	285.3	0.8	11.0	5.0	11.2	0.27	0.59	0.58	15	0.01	0.040
073898	Soil	0.55	26.73	138.83	148.0	300	29.9	10.9	476	3.77	967.1	1.1	22.0	10.3	16.5	0.93	1.03	2.26	14	0.02	0.036
073899	Soil	0.28	7.23	10.50	31.1	27	5.0	2.1	71	1.07	38.6	0.3	3.7	0.4	6.7	0.33	0.24	0.20	11	0.02	0.047



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**Project:** None Given  
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**Part:** 2 of 3

# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
071600	Soil	22.8	24.7	0.54	28.3	0.003	<1	1.72	0.003	0.04	0.2	1.6	0.06	<0.02	14	<0.1	0.11	5.9	1.49	<0.1	0.07
073871	Soil	24.2	20.7	0.43	24.3	0.005	3	1.28	0.006	0.03	0.3	1.2	0.05	<0.02	38	<0.1	0.04	5.8	0.89	<0.1	0.02
073872	Soil	21.7	17.8	0.42	32.8	0.002	<1	1.19	0.005	0.05	0.2	1.5	0.06	<0.02	11	<0.1	<0.02	4.0	1.48	<0.1	0.04
073873	Soil	17.5	24.6	0.51	69.9	0.004	2	1.54	0.008	0.13	0.4	2.0	0.09	0.04	26	0.2	0.03	4.4	1.39	<0.1	0.07
073874	Soil	21.5	18.2	0.40	40.7	0.004	1	1.15	0.006	0.07	0.4	2.1	0.11	<0.02	37	0.4	<0.02	3.6	1.70	<0.1	<0.02
073875	Soil	21.6	22.1	0.52	45.3	0.004	<1	1.39	0.004	0.08	0.3	1.9	0.10	<0.02	29	<0.1	0.06	4.5	2.05	0.1	<0.02
073876	Soil	21.6	20.6	0.54	38.2	0.002	<1	1.41	0.005	0.05	0.2	2.0	0.08	<0.02	26	0.2	0.04	3.9	1.77	<0.1	0.02
073877	Soil	24.2	19.5	0.49	39.9	0.003	1	1.37	0.005	0.06	0.3	1.8	0.07	<0.02	23	0.6	0.07	3.9	1.40	<0.1	<0.02
073878	Soil	22.6	23.6	0.54	56.7	0.004	3	1.56	0.006	0.12	0.3	2.2	0.09	<0.02	21	0.3	0.03	4.0	1.47	<0.1	0.05
073879	Soil	28.6	25.5	0.59	71.4	0.004	3	1.77	0.006	0.13	0.3	2.2	0.11	<0.02	22	0.3	0.03	4.7	1.70	<0.1	0.03
073880	Soil	29.0	22.9	0.54	47.7	0.005	1	1.49	0.005	0.11	0.3	2.1	0.09	<0.02	8	<0.1	<0.02	4.3	1.46	<0.1	<0.02
073881	Soil	24.9	21.1	0.50	52.4	0.005	1	1.45	0.006	0.10	0.3	2.1	0.10	<0.02	24	0.4	<0.02	3.9	1.60	0.1	0.02
073882	Soil	20.3	20.7	0.49	45.7	0.005	<1	1.32	0.006	0.10	0.4	2.0	0.10	<0.02	23	0.4	<0.02	4.0	1.48	0.1	<0.02
073883	Soil	26.4	24.3	0.59	50.3	0.007	1	1.50	0.006	0.11	0.5	2.3	0.11	<0.02	33	<0.1	0.02	4.6	1.83	<0.1	<0.02
073884	Soil	18.6	22.6	0.50	82.5	0.003	<1	1.65	0.007	0.12	0.3	2.4	0.09	0.02	28	0.6	0.05	4.9	2.24	0.1	0.05
073885	Soil	32.1	21.4	0.51	37.8	0.004	<1	1.33	0.004	0.07	0.3	2.3	0.05	<0.02	<5	0.1	0.04	4.1	1.17	0.1	<0.02
073886	Soil	14.7	23.3	0.48	99.7	0.003	<1	1.68	0.012	0.17	0.4	2.3	0.12	0.03	23	0.6	<0.02	5.8	2.56	<0.1	0.09
073887	Soil	23.2	12.4	0.11	20.9	0.003	<1	0.83	0.004	0.03	0.2	1.0	0.05	<0.02	16	0.2	0.05	5.2	1.08	<0.1	<0.02
073888	Soil	25.4	4.8	0.01	8.6	0.002	<1	0.37	0.002	0.01	0.2	0.7	0.04	<0.02	<5	<0.1	<0.02	3.6	0.22	<0.1	<0.02
073889	Soil	19.9	13.8	0.13	25.8	0.002	<1	0.79	0.004	0.05	0.3	1.2	0.07	<0.02	16	<0.1	0.11	3.4	1.75	<0.1	<0.02
073890	Soil	13.2	9.6	0.10	29.5	0.005	<1	0.60	0.008	0.04	0.3	0.8	0.06	<0.02	16	<0.1	0.05	3.6	0.94	<0.1	<0.02
073891	Soil	24.8	14.7	0.16	19.4	0.001	<1	0.80	0.002	0.04	0.4	1.3	0.05	<0.02	31	<0.1	0.04	3.0	0.93	<0.1	0.02
073892	Soil	23.3	16.1	0.22	22.5	0.001	1	0.95	0.003	0.04	0.3	1.4	0.05	<0.02	38	0.3	0.08	2.7	1.02	<0.1	<0.02
073893	Soil	25.5	6.2	0.03	14.1	0.003	<1	0.38	0.003	0.03	0.3	0.6	0.05	<0.02	16	<0.1	0.05	3.7	0.61	<0.1	<0.02
073894	Soil	26.2	7.0	0.03	15.6	0.004	<1	0.39	0.003	0.03	0.4	0.8	0.05	<0.02	20	<0.1	0.05	3.4	0.52	<0.1	<0.02
073895	Soil	36.3	12.3	0.12	25.9	0.004	<1	0.83	0.003	0.03	0.3	0.9	0.06	<0.02	14	0.1	<0.02	5.5	0.78	<0.1	<0.02
073896	Soil	23.5	15.5	0.26	37.3	0.004	<1	1.04	0.006	0.04	0.3	1.1	0.10	<0.02	17	<0.1	0.05	5.1	1.19	<0.1	<0.02
073897	Soil	20.5	14.7	0.18	31.8	0.003	<1	0.87	0.006	0.05	0.5	1.1	0.15	<0.02	22	0.4	<0.02	4.6	1.81	<0.1	0.02
073898	Soil	26.4	18.8	0.41	52.6	0.004	<1	1.36	0.005	0.07	0.4	1.5	0.23	0.02	31	<0.1	<0.02	4.6	4.78	<0.1	<0.02
073899	Soil	9.9	5.4	0.05	23.2	0.004	<1	0.40	0.016	0.03	0.1	0.2	0.04	<0.02	20	0.4	<0.02	2.6	0.43	<0.1	<0.02



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		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
071600	Soil	0.21	7.3	0.4	<0.05	4.4	1.61	41.7	0.04	<1	0.4	45.1	<10	<2
073871	Soil	0.41	3.9	1.1	<0.05	1.0	1.28	46.4	0.02	<1	<0.1	32.0	<10	<2
073872	Soil	0.13	6.4	0.3	<0.05	0.9	1.58	39.5	0.03	<1	<0.1	29.6	<10	<2
073873	Soil	0.40	10.3	0.9	<0.05	2.7	3.96	32.6	<0.02	<1	1.0	33.7	<10	<2
073874	Soil	0.22	7.4	1.0	<0.05	0.9	3.77	39.3	0.03	<1	0.4	26.8	<10	<2
073875	Soil	0.23	9.2	0.8	<0.05	1.2	3.68	39.4	0.03	<1	0.6	39.1	<10	2
073876	Soil	0.14	6.4	0.7	<0.05	1.7	4.07	36.5	<0.02	<1	0.4	41.0	<10	<2
073877	Soil	0.16	6.7	0.7	<0.05	1.2	3.69	44.5	<0.02	<1	0.5	38.6	<10	3
073878	Soil	0.27	9.9	0.5	<0.05	1.5	3.27	41.2	0.05	<1	0.7	39.6	<10	<2
073879	Soil	0.29	11.5	0.6	<0.05	1.3	4.04	52.8	0.02	<1	0.7	40.4	<10	<2
073880	Soil	0.31	9.9	0.7	<0.05	1.0	2.95	51.8	<0.02	<1	0.6	34.1	<10	<2
073881	Soil	0.26	9.1	0.8	<0.05	1.1	4.84	44.8	0.02	<1	0.6	36.3	<10	<2
073882	Soil	0.28	8.9	0.6	<0.05	1.0	3.39	37.9	0.03	<1	0.5	30.2	<10	<2
073883	Soil	0.41	10.6	0.7	<0.05	1.4	5.53	48.4	<0.02	<1	0.6	38.8	<10	<2
073884	Soil	0.36	11.4	1.0	<0.05	2.8	4.54	32.4	<0.02	<1	0.5	39.3	<10	<2
073885	Soil	0.22	6.2	0.7	<0.05	1.0	4.24	57.7	<0.02	<1	0.8	35.2	<10	<2
073886	Soil	0.39	14.1	0.7	<0.05	2.3	2.89	25.9	0.03	<1	0.5	30.9	<10	<2
073887	Soil	0.31	7.5	0.8	<0.05	0.5	1.20	37.9	<0.02	<1	0.2	8.5	<10	<2
073888	Soil	0.12	1.8	0.8	<0.05	<0.1	1.11	46.1	<0.02	<1	<0.1	0.3	<10	<2
073889	Soil	0.20	9.2	0.9	<0.05	0.7	1.84	35.4	<0.02	<1	0.1	12.7	<10	<2
073890	Soil	0.30	6.5	0.9	<0.05	0.4	1.17	24.4	0.02	<1	0.2	9.0	<10	<2
073891	Soil	0.17	7.0	0.8	<0.05	0.6	1.46	43.7	<0.02	<1	0.3	12.1	<10	<2
073892	Soil	0.10	6.5	0.5	<0.05	0.9	1.62	41.0	0.02	<1	0.4	19.2	<10	<2
073893	Soil	0.15	4.0	0.8	<0.05	<0.1	1.33	46.6	<0.02	<1	0.2	1.1	<10	<2
073894	Soil	0.19	4.6	0.9	<0.05	<0.1	1.32	47.5	<0.02	<1	0.1	1.0	<10	<2
073895	Soil	0.37	6.6	0.8	<0.05	0.9	1.71	64.3	<0.02	<1	0.2	9.2	<10	3
073896	Soil	0.33	6.7	0.6	<0.05	0.6	1.91	42.8	<0.02	2	0.4	17.6	<10	<2
073897	Soil	0.26	6.4	0.9	<0.05	0.5	1.41	37.6	<0.02	<1	0.2	15.2	<10	<2
073898	Soil	0.24	12.4	0.5	<0.05	1.2	2.31	47.8	0.03	<1	0.2	36.9	<10	<2
073899	Soil	0.10	2.6	0.5	<0.05	0.3	0.62	17.6	<0.02	<1	0.1	2.9	<10	<2



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000273.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
073900	Soil	0.63	14.18	24.58	65.9	88	15.1	6.6	303	3.53	85.0	0.6	5.6	6.5	7.0	0.27	0.62	0.55	24	0.01	0.056
073621	Soil	0.55	28.80	34.88	70.2	26	29.5	13.0	556	3.68	10.6	1.4	1.2	8.3	9.3	0.09	1.42	0.48	10	0.03	0.051
073622	Soil	0.49	41.99	28.55	90.4	42	35.9	23.1	719	4.54	8.9	1.4	1.0	11.9	5.2	0.08	0.81	0.73	11	0.04	0.051
073623	Soil	0.63	48.19	56.13	99.4	120	42.4	30.3	1497	5.02	8.5	1.4	0.7	14.6	9.9	0.11	1.06	0.64	13	0.09	0.066
073624	Soil	0.83	37.36	25.14	72.7	30	24.5	11.8	583	3.26	10.5	1.0	<0.2	2.0	9.1	0.15	1.00	0.42	23	0.07	0.071
073625	Soil	0.51	29.72	23.22	91.7	84	34.0	16.4	1118	3.34	11.5	1.7	1.7	11.1	13.5	0.17	1.75	0.26	4	0.09	0.038
073626	Soil	0.78	19.02	15.70	35.8	40	13.3	5.1	161	1.91	6.5	0.8	1.4	1.0	6.4	0.05	0.74	0.30	16	0.03	0.058
073627	Soil	0.64	18.90	33.71	92.6	188	19.6	8.0	303	3.23	138.2	0.8	77.3	3.7	8.2	0.38	0.68	0.52	18	0.01	0.065
073628	Soil	0.54	10.97	18.01	60.8	441	13.3	4.9	213	1.81	32.7	0.4	3.1	0.9	6.4	0.17	0.40	0.30	15	0.04	0.052
073629	Soil	0.56	14.12	20.45	50.1	64	14.5	5.6	148	2.81	134.9	0.7	7.7	8.2	5.9	0.10	0.50	0.58	17	<0.01	0.030
073630	Soil	0.68	18.03	20.53	57.3	112	14.7	6.4	179	3.67	178.1	0.6	6.8	2.8	5.1	0.17	0.79	0.85	22	<0.01	0.077
073731	Soil	0.30	17.35	15.22	79.3	43	28.7	13.8	693	3.62	3.1	1.0	1.9	13.6	3.4	0.09	0.34	0.47	13	0.02	0.033
073732	Soil	0.46	63.94	60.94	97.8	77	34.7	22.9	1450	4.34	15.4	2.7	3.1	13.2	15.5	0.10	2.14	0.69	10	0.35	0.078
073733	Soil	1.74	175.99	191.89	107.1	226	37.4	22.5	1567	4.00	56.3	1.9	11.0	13.3	17.7	0.22	1.80	1.67	9	0.42	0.056
073734	Soil	0.40	39.25	39.12	90.4	64	32.2	20.4	913	3.98	13.1	1.9	3.0	12.8	6.8	0.06	0.90	0.55	10	0.09	0.050
073735	Soil	0.43	40.53	53.70	63.3	151	23.2	13.5	768	2.75	46.8	1.8	19.8	6.7	6.3	0.03	0.85	0.57	9	0.09	0.051
073736	Soil	0.46	21.83	23.76	36.1	70	10.5	10.7	982	1.75	4.5	1.6	1.8	2.6	12.5	0.12	0.33	0.26	9	0.19	0.073
073737	Soil	0.20	13.10	10.28	30.3	33	13.5	4.2	107	1.79	5.2	0.8	1.0	5.1	3.9	0.03	0.41	0.23	8	0.03	0.033
073738	Soil	0.42	21.62	58.82	78.1	82	21.2	25.0	1481	3.58	11.9	1.3	1.0	7.2	13.0	0.22	0.85	0.41	13	0.25	0.074
073739	Soil	0.52	46.43	39.94	92.2	188	29.8	21.0	622	4.05	10.3	7.0	1.9	8.5	19.3	0.06	0.58	0.54	13	0.24	0.084
073740	Soil	0.66	44.48	51.15	84.4	116	33.6	17.8	470	3.74	9.5	16.7	5.2	11.5	19.8	0.04	0.55	0.65	11	0.29	0.041
073741	Soil	0.45	14.90	18.42	56.3	36	19.1	8.3	343	3.36	4.8	0.7	0.8	6.8	4.9	0.03	0.30	0.44	16	0.02	0.039
073742	Soil	0.50	41.26	31.62	84.2	61	29.5	12.5	435	3.98	3.5	0.8	1.9	11.0	3.4	0.05	0.25	0.71	15	0.02	0.038
073743	Soil	0.32	37.32	31.42	88.1	103	30.8	14.5	382	3.80	4.5	3.2	1.5	8.6	7.2	0.02	0.30	0.57	9	0.04	0.049
073744	Soil	0.43	41.21	29.60	85.3	137	29.6	15.8	629	3.67	5.5	4.1	1.4	8.6	33.6	0.06	0.30	0.63	11	0.45	0.056
073745	Soil	0.44	37.56	45.92	97.8	158	35.8	23.1	790	4.03	5.2	1.5	1.9	13.3	7.4	0.03	0.42	0.61	9	0.07	0.039
073746	Soil	0.54	38.78	77.96	81.1	399	26.2	12.5	392	2.31	44.1	1.4	15.3	3.0	24.2	0.44	0.82	0.48	8	0.01	0.048
073747	Soil	0.55	33.42	63.56	96.2	216	26.7	13.4	838	2.78	97.5	1.4	14.1	4.1	13.1	0.31	1.04	0.44	10	<0.01	0.044
073748	Soil	0.47	57.15	35.28	116.5	158	44.3	21.3	609	3.67	49.9	1.9	10.7	7.2	21.4	0.38	1.47	0.55	9	0.02	0.050
073749	Soil	0.52	56.72	36.18	118.8	148	45.9	21.1	636	3.70	50.0	1.9	9.5	7.1	21.2	0.41	1.44	0.55	9	0.02	0.051



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000273.1

Method Analyte	AQ251																				
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
073900	Soil	31.3	17.2	0.26	42.5	0.006	<1	1.14	0.003	0.04	0.3	1.2	0.06	<0.02	25	<0.1	0.02	7.1	1.14	<0.1	<0.02
073621	Soil	26.5	18.2	0.50	27.3	0.004	<1	1.49	0.003	0.03	<0.1	1.5	0.03	0.02	28	<0.1	0.04	3.8	0.71	<0.1	0.12
073622	Soil	41.5	24.2	0.78	36.4	0.003	<1	2.08	0.002	0.03	<0.1	1.9	0.04	<0.02	14	<0.1	0.12	5.6	1.14	<0.1	0.14
073623	Soil	30.7	26.4	0.73	46.0	0.002	<1	2.33	0.002	0.05	<0.1	3.0	0.06	<0.02	24	<0.1	<0.02	6.3	2.02	<0.1	0.13
073624	Soil	23.5	22.1	0.47	46.5	0.020	<1	1.48	0.006	0.05	0.1	1.2	0.07	0.04	38	<0.1	<0.02	4.7	1.33	<0.1	<0.02
073625	Soil	19.1	8.5	0.16	34.8	<0.001	<1	0.77	0.003	0.03	<0.1	2.7	0.04	<0.02	22	0.1	<0.02	1.6	0.94	<0.1	0.03
073626	Soil	12.7	12.2	0.20	29.7	0.009	1	0.90	0.009	0.03	0.1	0.6	0.06	0.03	21	0.3	0.02	3.4	0.93	<0.1	<0.02
073627	Soil	15.9	16.3	0.27	46.4	0.005	1	1.19	0.006	0.05	0.3	0.9	0.09	0.02	43	<0.1	0.07	5.0	1.92	<0.1	0.02
073628	Soil	15.8	12.3	0.19	24.0	0.005	1	0.69	0.009	0.03	0.2	0.5	0.05	<0.02	28	<0.1	0.02	4.4	1.10	<0.1	<0.02
073629	Soil	28.4	13.6	0.16	45.2	0.004	1	1.18	0.002	0.03	0.3	1.0	0.06	<0.02	24	<0.1	0.04	4.6	0.97	<0.1	0.02
073630	Soil	22.4	12.8	0.11	21.3	0.007	2	0.62	0.004	0.02	0.3	0.7	0.04	<0.02	24	<0.1	0.07	4.9	0.68	<0.1	<0.02
073731	Soil	25.8	21.6	0.58	31.0	0.005	<1	1.70	0.005	0.03	<0.1	1.3	0.04	<0.02	30	<0.1	0.03	4.7	2.77	<0.1	0.12
073732	Soil	21.9	19.0	0.45	47.2	0.001	<1	1.55	0.005	0.03	<0.1	4.2	0.04	0.02	30	0.1	0.03	4.0	2.37	<0.1	0.09
073733	Soil	20.4	22.6	0.54	24.1	0.001	2	1.37	0.006	0.03	<0.1	4.2	0.02	0.03	55	<0.1	0.04	3.7	0.83	<0.1	0.14
073734	Soil	28.1	22.4	0.59	40.5	0.001	<1	1.84	0.003	0.04	<0.1	2.1	0.04	<0.02	33	<0.1	0.02	5.0	2.19	<0.1	0.06
073735	Soil	15.1	14.9	0.37	76.0	0.003	<1	1.29	0.012	0.03	<0.1	2.3	0.03	<0.02	27	<0.1	<0.02	3.4	1.89	<0.1	0.04
073736	Soil	7.5	9.4	0.17	99.7	0.005	1	0.88	0.014	0.03	<0.1	1.2	0.04	0.06	43	0.2	<0.02	2.5	1.80	<0.1	0.05
073737	Soil	15.1	9.5	0.22	9.8	0.006	<1	0.65	0.014	0.03	<0.1	0.8	<0.02	<0.02	27	0.1	<0.02	2.1	0.44	<0.1	<0.02
073738	Soil	23.1	17.6	0.35	45.2	0.009	<1	1.50	0.010	0.02	<0.1	2.4	0.03	<0.02	23	<0.1	0.02	4.3	1.21	<0.1	0.05
073739	Soil	11.9	26.0	0.58	54.9	0.002	1	1.98	0.006	0.05	<0.1	2.6	0.06	0.03	38	0.1	<0.02	5.0	2.33	<0.1	0.13
073740	Soil	25.1	26.2	0.67	46.8	0.002	1	1.91	0.005	0.04	<0.1	2.4	0.04	0.02	27	0.3	0.04	4.6	2.36	<0.1	0.10
073741	Soil	26.0	17.6	0.37	27.2	0.007	1	1.07	0.007	0.03	<0.1	0.9	0.03	<0.02	14	0.2	<0.02	4.5	2.16	<0.1	<0.02
073742	Soil	29.7	24.7	0.68	44.3	0.004	<1	1.78	0.004	0.03	<0.1	1.2	0.03	<0.02	18	0.2	0.03	6.1	1.49	<0.1	0.06
073743	Soil	21.0	22.4	0.69	35.8	0.001	<1	1.95	0.004	0.04	<0.1	1.6	0.03	<0.02	28	0.2	<0.02	5.3	1.19	<0.1	0.12
073744	Soil	17.8	24.7	0.69	57.9	0.001	<1	1.97	0.005	0.04	<0.1	1.8	0.04	0.03	28	0.1	<0.02	5.1	1.50	<0.1	0.18
073745	Soil	35.5	26.5	0.79	40.5	0.002	1	1.92	0.003	0.03	<0.1	1.4	0.02	<0.02	15	<0.1	0.02	5.0	0.72	<0.1	0.06
073746	Soil	13.7	11.1	0.04	25.4	0.003	<1	0.35	0.007	0.04	0.4	0.8	0.15	0.02	28	0.2	0.06	2.3	2.33	<0.1	<0.02
073747	Soil	13.9	12.2	0.07	35.9	0.003	1	0.57	0.005	0.03	0.4	0.9	0.16	<0.02	34	0.2	0.06	2.7	1.38	<0.1	0.03
073748	Soil	21.8	14.2	0.06	25.4	0.002	<1	0.30	0.003	0.04	0.3	1.4	0.18	<0.02	38	<0.1	0.11	1.8	1.15	<0.1	<0.02
073749	Soil	21.1	14.3	0.06	26.3	0.002	1	0.31	0.003	0.04	0.4	1.3	0.19	<0.02	42	0.2	0.12	1.9	1.15	<0.1	<0.02



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000273.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
073900	Soil	0.68	7.4	1.2	<0.05	0.4	1.54	53.9	<0.02	<1	0.1	18.1	<10	<2
073621	Soil	0.12	3.6	0.5	<0.05	4.4	5.78	49.4	0.02	<1	0.3	37.3	<10	<2
073622	Soil	0.07	3.3	0.4	<0.05	5.5	7.29	76.4	0.03	<1	0.8	59.4	<10	<2
073623	Soil	0.07	5.0	0.8	<0.05	5.0	15.69	57.7	0.05	<1	1.0	65.8	<10	<2
073624	Soil	0.44	6.8	0.8	<0.05	0.5	4.61	47.5	0.05	<1	0.4	28.5	<10	<2
073625	Soil	<0.02	2.1	1.8	<0.05	3.2	7.22	34.2	<0.02	2	0.5	10.0	10	<2
073626	Soil	0.18	5.6	0.9	<0.05	0.4	1.93	22.2	<0.02	<1	0.2	13.7	<10	<2
073627	Soil	0.35	11.8	1.0	<0.05	0.7	1.50	27.8	<0.02	<1	0.3	26.8	<10	<2
073628	Soil	0.24	4.6	0.9	<0.05	0.1	0.89	28.0	<0.02	<1	<0.1	13.9	<10	<2
073629	Soil	0.41	7.4	1.4	<0.05	1.4	1.96	49.4	<0.02	<1	0.4	16.0	<10	<2
073630	Soil	0.31	4.2	1.2	<0.05	<0.1	1.37	39.9	0.02	<1	<0.1	7.4	<10	<2
073731	Soil	0.17	4.7	1.1	<0.05	4.1	2.97	49.0	<0.02	<1	0.5	45.9	<10	<2
073732	Soil	0.09	4.2	0.5	<0.05	5.1	15.20	42.4	0.04	<1	0.8	46.3	<10	<2
073733	Soil	0.05	2.3	3.5	<0.05	5.0	14.16	40.2	0.03	<1	0.3	44.3	<10	<2
073734	Soil	0.05	4.6	1.2	<0.05	2.4	6.61	50.6	0.03	<1	0.8	53.4	<10	<2
073735	Soil	0.13	3.4	1.5	<0.05	2.0	9.11	28.3	0.02	<1	0.6	32.5	<10	<2
073736	Soil	0.23	2.8	0.4	<0.05	1.9	9.73	13.7	<0.02	<1	0.4	14.0	<10	<2
073737	Soil	0.10	1.9	0.2	<0.05	1.0	1.96	26.4	<0.02	1	0.1	15.7	<10	<2
073738	Soil	0.27	2.8	0.9	<0.05	1.7	6.31	47.3	0.04	<1	0.5	35.1	<10	<2
073739	Soil	0.11	6.7	1.3	<0.05	4.1	10.62	19.8	0.03	<1	0.8	49.0	<10	<2
073740	Soil	0.09	4.5	0.8	<0.05	3.8	8.97	44.4	<0.02	<1	0.6	55.8	<10	<2
073741	Soil	0.22	4.6	0.8	<0.05	0.7	1.90	46.9	<0.02	<1	<0.1	26.4	<10	<2
073742	Soil	0.15	3.9	0.8	<0.05	2.4	2.72	55.8	<0.02	<1	0.4	52.3	<10	<2
073743	Soil	0.06	4.4	0.4	<0.05	3.8	4.98	36.5	<0.02	<1	0.3	52.9	<10	<2
073744	Soil	0.10	4.9	0.4	<0.05	5.5	6.33	30.6	<0.02	<1	0.6	55.0	<10	<2
073745	Soil	0.05	2.8	2.2	<0.05	2.8	4.87	63.8	<0.02	<1	0.4	62.0	<10	<2
073746	Soil	0.07	4.7	1.1	<0.05	0.2	2.32	23.2	0.02	<1	0.3	2.3	<10	<2
073747	Soil	0.13	5.0	0.8	<0.05	0.6	1.49	24.7	0.02	<1	0.2	5.4	<10	<2
073748	Soil	0.03	3.3	0.5	<0.05	0.2	2.81	35.5	<0.02	<1	0.5	3.2	<10	<2
073749	Soil	0.03	3.3	0.9	<0.05	0.3	2.91	35.2	0.02	<1	0.4	2.9	<10	<2



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000273.1

Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
073750	Soil	0.75	37.18	96.56	91.7	375	24.0	11.0	254	3.72	1384.9	1.2	425.0	9.1	34.4	1.03	4.17	0.78	7	<0.01	0.025
073851	Soil	1.52	69.92	69.15	123.7	543	40.4	23.2	410	5.46	1668.6	1.6	605.6	13.2	36.2	0.48	10.32	1.45	7	<0.01	0.031
073852	Soil	0.91	45.80	38.29	113.6	222	26.9	14.7	322	3.76	1859.3	1.6	57.7	9.5	30.8	0.77	6.75	0.85	7	<0.01	0.024
073853	Soil	0.44	15.92	24.53	29.3	209	9.1	3.5	172	1.70	100.7	0.6	2.8	0.5	6.2	0.20	0.44	0.48	12	0.01	0.038
073854	Soil	0.63	24.68	58.14	87.6	246	22.1	8.5	342	3.23	596.9	1.1	10.1	2.3	11.7	0.89	1.44	0.57	16	0.01	0.052
073855	Soil	0.49	27.83	28.88	96.1	154	38.7	12.6	429	4.40	116.6	0.7	8.9	8.2	7.2	0.32	0.91	0.45	17	0.04	0.036
073856	Soil	0.45	28.70	125.27	94.9	367	28.9	10.9	450	3.46	427.1	1.0	64.9	9.1	22.5	0.82	1.16	0.79	13	0.02	0.030
073857	Soil	0.59	40.53	31.85	176.0	69	47.4	17.7	363	4.24	742.9	2.6	22.0	15.7	27.5	1.50	1.34	0.46	10	<0.01	0.021
073858	Soil	0.59	17.60	29.66	50.1	116	14.0	6.0	229	2.65	88.3	0.6	33.3	3.8	9.9	0.23	0.85	0.37	19	0.02	0.047
073859	Soil	0.62	18.08	20.94	70.6	40	25.0	8.6	285	4.42	106.4	0.7	2.9	7.6	7.0	0.19	0.62	0.47	23	0.01	0.030
073860	Soil	0.33	5.51	10.02	28.0	58	5.5	2.9	159	1.31	17.8	0.3	1.4	1.2	3.8	0.15	0.30	0.19	13	0.01	0.024
073861	Soil	0.70	12.95	17.22	42.7	166	9.9	4.5	178	2.38	51.7	0.5	2.3	3.8	6.5	0.11	0.62	0.35	23	0.02	0.031
073862	Soil	0.43	18.26	31.53	88.1	154	23.3	8.7	351	3.43	81.2	0.7	6.1	6.6	7.6	0.18	0.58	0.45	15	0.01	0.039
073863	Soil	0.16	3.84	4.21	10.5	67	1.8	1.1	25	0.47	22.2	0.2	0.9	<0.1	4.6	0.10	0.13	0.11	9	0.01	0.020
073864	Soil	0.50	25.62	57.83	103.2	975	27.5	10.2	420	4.38	624.9	0.8	31.2	9.3	11.1	0.57	1.30	3.26	16	0.01	0.045
073865	Soil	0.55	9.99	19.71	37.7	188	11.0	4.4	166	2.12	112.1	0.7	6.1	2.9	6.2	0.35	0.55	0.45	17	0.02	0.034
073866	Soil	0.28	6.83	9.85	12.5	121	2.6	1.3	27	0.50	34.8	0.4	1.8	<0.1	4.3	0.16	0.18	0.21	10	0.01	0.031
073867	Soil	0.83	27.19	36.52	76.2	108	20.5	8.1	296	3.02	110.1	1.0	4.7	2.3	10.4	0.17	1.26	0.90	20	0.01	0.038
073868	Soil	0.51	11.74	32.96	40.5	86	7.4	3.6	111	1.39	122.0	0.5	94.4	0.8	12.5	0.14	0.80	0.29	16	0.02	0.033
073869	Soil	0.63	25.71	59.66	85.7	199	23.1	9.9	368	3.09	261.8	1.6	160.9	1.9	14.2	0.46	1.20	0.51	13	0.02	0.077
073870	Soil	0.49	33.74	728.43	135.3	1040	24.2	9.3	183	3.80	1195.2	1.1	123.8	11.1	20.3	0.87	4.42	2.34	7	<0.01	0.021
071891	Soil	0.52	37.19	38.97	104.9	130	32.6	13.4	546	3.39	57.7	2.5	7.2	8.8	45.5	0.45	0.74	0.58	9	0.68	0.044
071892	Soil	0.39	26.23	42.26	83.6	91	29.2	11.0	303	3.45	79.7	1.8	8.3	9.1	32.1	0.31	0.56	0.60	11	0.45	0.035
071893	Soil	0.38	32.06	42.11	102.5	148	32.4	12.9	507	3.26	196.0	1.9	12.3	8.4	48.2	0.46	0.80	0.67	10	0.68	0.046
071894	Soil	0.43	28.73	32.95	98.3	61	33.0	13.1	578	3.33	77.5	2.5	7.5	7.6	38.2	0.30	0.63	0.51	11	0.59	0.045
071895	Soil	0.31	24.17	30.52	87.9	84	29.5	11.4	503	3.03	60.1	2.1	6.5	5.9	36.4	0.47	0.48	0.46	10	0.50	0.048
071896	Soil	0.44	33.17	50.64	130.3	256	46.1	14.3	693	3.40	193.0	2.2	16.6	8.1	38.1	1.28	1.02	0.91	9	0.44	0.047
071897	Soil	0.53	28.47	40.94	91.8	179	28.8	10.9	329	3.65	106.5	1.0	10.7	8.5	11.0	0.31	1.24	0.65	11	0.03	0.043
071898	Soil	0.47	25.20	62.79	96.9	172	31.2	23.9	797	3.59	197.1	1.1	42.8	9.3	13.6	0.31	1.00	0.67	11	0.07	0.041
071899	Soil	0.34	24.15	33.67	91.1	62	26.5	10.3	401	3.26	92.7	0.8	7.2	8.9	11.4	0.24	0.73	0.57	10	0.06	0.029



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000273.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
073750	Soil	21.3	7.2	0.04	37.0	0.002	<1	0.31	0.003	0.04	1.0	2.2	0.12	<0.02	41	0.3	0.26	1.3	3.01	<0.1	<0.02
073851	Soil	17.9	7.1	0.03	33.6	0.001	<1	0.30	0.003	0.04	0.7	3.7	0.18	0.02	40	0.6	0.42	1.3	6.38	<0.1	<0.02
073852	Soil	16.0	9.8	0.02	49.1	0.001	<1	0.27	0.003	0.04	0.3	2.2	0.12	0.04	35	0.4	0.23	1.6	2.83	<0.1	<0.02
073853	Soil	12.0	10.7	0.14	26.8	0.008	<1	0.87	0.016	0.02	0.1	0.5	0.05	<0.02	33	0.3	0.03	3.8	0.85	<0.1	<0.02
073854	Soil	17.2	14.4	0.23	36.8	0.006	2	1.01	0.008	0.03	0.4	0.9	0.16	0.02	45	0.3	0.04	4.3	2.68	<0.1	<0.02
073855	Soil	25.1	31.1	0.76	32.2	0.003	<1	2.10	0.005	0.04	0.1	1.7	0.06	<0.02	53	0.2	0.05	5.7	1.64	<0.1	0.06
073856	Soil	22.8	22.6	0.43	35.2	0.002	<1	1.40	0.004	0.05	0.3	1.3	0.14	<0.02	30	0.3	0.04	4.3	1.72	<0.1	0.03
073857	Soil	15.3	12.7	0.09	20.8	<0.001	<1	0.38	0.002	0.04	0.8	1.9	0.08	<0.02	26	0.1	0.03	1.6	1.47	<0.1	<0.02
073858	Soil	19.8	12.2	0.17	48.9	0.008	<1	0.90	0.008	0.04	0.2	0.8	0.07	0.03	49	0.4	0.06	5.0	1.13	<0.1	<0.02
073859	Soil	23.2	25.3	0.40	33.8	0.005	<1	1.56	0.008	0.05	0.3	1.5	0.06	<0.02	21	0.3	0.06	6.4	0.65	<0.1	0.02
073860	Soil	14.2	6.6	0.06	27.3	0.009	<1	0.54	0.017	0.03	0.1	0.5	0.05	<0.02	18	0.3	<0.02	3.5	0.67	<0.1	<0.02
073861	Soil	23.3	12.4	0.09	30.6	0.011	<1	0.71	0.007	0.04	0.2	0.7	0.07	<0.02	24	0.3	0.04	5.4	0.97	<0.1	<0.02
073862	Soil	20.2	20.4	0.41	44.4	0.003	<1	1.40	0.007	0.04	0.3	1.3	0.08	<0.02	39	0.4	<0.02	5.4	1.16	<0.1	0.05
073863	Soil	4.6	1.8	0.01	12.8	0.005	<1	0.17	0.017	0.02	<0.1	0.2	0.03	<0.02	24	0.2	<0.02	1.4	0.16	<0.1	<0.02
073864	Soil	24.6	23.2	0.47	39.3	0.002	<1	1.59	0.004	0.05	0.2	1.6	0.11	0.02	31	0.5	0.08	5.6	1.22	<0.1	0.03
073865	Soil	15.9	11.9	0.21	34.0	0.010	<1	1.05	0.014	0.04	0.3	1.0	0.08	<0.02	34	0.2	<0.02	4.9	1.99	<0.1	<0.02
073866	Soil	9.7	2.9	0.02	17.8	0.004	<1	0.30	0.015	0.02	0.1	0.1	0.05	<0.02	20	<0.1	<0.02	2.2	1.19	<0.1	<0.02
073867	Soil	18.4	16.2	0.21	34.0	0.011	<1	0.85	0.003	0.04	0.4	0.9	0.10	<0.02	19	0.3	0.09	4.8	2.07	<0.1	<0.02
073868	Soil	13.9	4.6	0.03	25.3	0.010	<1	0.40	0.010	0.03	0.2	0.4	0.10	0.02	43	0.3	<0.02	2.6	1.01	<0.1	<0.02
073869	Soil	15.5	10.3	0.05	40.8	0.005	2	0.46	0.003	0.04	0.6	1.0	0.16	0.06	111	0.4	0.05	2.6	1.20	<0.1	<0.02
073870	Soil	19.1	13.3	0.10	30.3	<0.001	<1	0.61	0.002	0.03	0.3	1.4	0.11	0.03	51	<0.1	0.17	2.1	1.02	<0.1	0.02
071891	Soil	14.1	18.6	0.46	54.9	0.001	<1	1.29	0.006	0.07	0.1	2.0	0.07	0.04	40	0.6	0.08	4.0	1.35	<0.1	0.09
071892	Soil	16.7	21.9	0.59	56.6	0.001	<1	1.69	0.006	0.07	0.2	2.1	0.08	0.03	36	0.5	0.04	4.7	1.35	<0.1	0.05
071893	Soil	14.0	20.5	0.51	58.2	0.002	<1	1.44	0.006	0.07	0.2	1.9	0.07	0.05	57	0.2	0.04	3.8	1.24	<0.1	0.09
071894	Soil	15.5	23.2	0.65	55.1	0.002	<1	1.66	0.007	0.07	0.1	2.1	0.08	0.04	51	0.5	0.05	4.8	1.32	<0.1	0.09
071895	Soil	13.0	20.1	0.54	59.0	0.002	2	1.55	0.008	0.06	0.1	1.8	0.09	0.04	36	0.5	0.02	4.4	1.44	<0.1	0.08
071896	Soil	14.9	17.5	0.47	59.6	0.002	<1	1.25	0.005	0.06	0.2	2.0	0.12	0.03	44	0.3	0.10	3.9	2.12	<0.1	0.06
071897	Soil	23.5	18.2	0.36	53.6	0.002	<1	1.31	0.006	0.09	0.2	1.5	0.08	<0.02	30	<0.1	0.05	3.9	1.64	<0.1	0.03
071898	Soil	25.5	18.5	0.42	69.3	0.002	<1	1.44	0.006	0.12	0.2	2.0	0.11	<0.02	30	<0.1	0.03	4.2	1.69	<0.1	0.03
071899	Soil	29.5	18.1	0.46	48.8	0.002	<1	1.38	0.005	0.10	0.2	1.5	0.07	<0.02	23	0.1	0.03	4.3	1.09	<0.1	0.03



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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
073750	Soil	0.07	4.5	0.2	<0.05	0.1	1.94	35.7	0.04	<1	0.2	2.8	<10	<2
073851	Soil	0.05	5.2	0.4	<0.05	1.0	2.07	29.9	0.04	<1	0.2	1.5	<10	<2
073852	Soil	0.05	4.4	0.2	<0.05	0.4	1.51	26.1	0.02	1	0.3	1.6	<10	<2
073853	Soil	0.27	3.5	1.6	<0.05	0.3	0.94	21.0	0.02	<1	0.3	9.6	<10	<2
073854	Soil	0.25	8.2	0.4	<0.05	0.5	1.74	29.8	0.03	<1	0.1	15.0	<10	<2
073855	Soil	0.15	6.3	0.4	<0.05	2.1	1.92	44.3	0.02	<1	0.2	57.4	<10	<2
073856	Soil	0.16	7.0	0.3	<0.05	1.2	1.72	40.8	0.05	<1	0.3	34.2	<10	<2
073857	Soil	0.03	3.5	0.6	<0.05	1.8	2.16	26.1	0.02	<1	0.5	4.6	<10	<2
073858	Soil	0.65	9.9	0.5	<0.05	0.6	1.30	33.2	<0.02	<1	0.1	14.3	<10	<2
073859	Soil	0.63	4.0	0.7	<0.05	2.6	1.57	40.7	<0.02	<1	0.3	28.3	<10	<2
073860	Soil	0.23	5.3	0.4	<0.05	0.3	0.74	24.0	<0.02	<1	<0.1	6.8	<10	<2
073861	Soil	0.68	4.5	0.8	<0.05	0.3	1.52	41.2	<0.02	<1	<0.1	4.8	<10	<2
073862	Soil	0.30	9.2	0.3	<0.05	1.7	1.54	36.2	0.02	<1	0.3	32.8	<10	3
073863	Soil	0.03	1.3	0.4	<0.05	<0.1	0.29	8.5	<0.02	<1	0.1	<0.1	<10	<2
073864	Soil	0.21	8.4	0.4	<0.05	1.7	1.66	44.3	<0.02	<1	0.3	44.2	<10	<2
073865	Soil	0.70	6.6	0.5	<0.05	0.5	1.74	28.4	<0.02	<1	0.2	16.7	<10	2
073866	Soil	0.07	3.2	0.3	<0.05	0.1	0.96	18.4	<0.02	<1	0.1	0.6	<10	<2
073867	Soil	0.38	7.7	1.0	<0.05	0.2	1.71	32.6	<0.02	3	<0.1	12.5	<10	<2
073868	Soil	0.14	6.3	0.5	<0.05	0.2	1.09	25.3	<0.02	<1	0.1	1.0	<10	<2
073869	Soil	0.23	7.4	1.1	<0.05	0.2	1.52	28.4	<0.02	<1	0.3	2.1	<10	<2
073870	Soil	0.09	5.3	0.4	<0.05	1.0	1.33	33.1	0.22	<1	0.3	9.2	<10	2
071891	Soil	0.16	5.8	0.3	<0.05	2.5	3.85	24.6	<0.02	2	0.5	35.0	<10	<2
071892	Soil	0.19	6.4	0.3	<0.05	2.6	3.65	29.7	<0.02	<1	0.6	46.9	<10	<2
071893	Soil	0.18	6.0	1.9	<0.05	3.3	3.84	25.4	<0.02	2	0.6	39.9	<10	<2
071894	Soil	0.19	6.9	0.2	<0.05	3.2	3.42	28.1	<0.02	<1	0.5	48.9	<10	<2
071895	Soil	0.19	7.1	0.6	<0.05	2.2	3.15	23.2	<0.02	<1	0.4	42.1	<10	<2
071896	Soil	0.17	7.2	0.2	<0.05	2.1	5.00	25.9	0.02	<1	0.5	34.9	<10	<2
071897	Soil	0.14	7.8	0.6	<0.05	1.2	2.79	41.1	<0.02	<1	0.6	28.6	<10	<2
071898	Soil	0.16	10.1	0.4	<0.05	1.1	3.71	47.9	0.03	<1	0.4	32.4	<10	<2
071899	Soil	0.11	7.9	1.0	<0.05	1.1	2.85	51.3	0.02	<1	0.5	33.5	<10	<2



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000273.1

Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
MDL		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
071900	Soil	0.30	24.05	27.88	87.0	68	25.2	9.1	342	3.33	89.2	0.8	8.8	9.1	7.2	0.17	0.67	0.62	10	0.02	0.028
071611	Soil	0.26	21.50	18.27	60.2	59	21.0	7.9	249	2.41	16.5	1.7	2.7	3.8	132.4	0.14	0.56	0.29	8	1.94	0.037
071612	Soil	0.28	28.04	23.52	55.9	73	26.8	11.7	417	3.01	23.2	2.0	1.7	11.5	42.9	0.08	0.59	0.39	12	0.40	0.024
071613	Soil	0.28	29.28	24.94	63.4	83	30.5	12.9	501	3.32	24.5	1.5	3.3	12.8	41.1	0.06	0.66	0.40	12	0.36	0.027
071614	Soil	0.35	26.98	31.43	55.2	76	25.0	11.2	600	3.26	41.1	1.6	10.3	3.5	74.7	0.24	0.70	0.46	8	0.91	0.040
071615	Soil	0.33	26.84	12.42	43.1	60	18.4	7.6	523	1.78	14.5	4.1	1.9	1.6	216.4	0.18	0.57	0.24	7	3.06	0.069
071616	Soil	0.18	21.21	12.02	41.3	71	16.6	6.2	431	1.70	13.9	1.9	1.6	1.9	131.4	0.15	0.38	0.22	8	1.71	0.058
071617	Soil	0.35	34.34	29.02	81.5	92	33.7	15.2	755	3.70	35.7	1.8	3.7	7.7	53.3	0.09	0.64	0.48	12	0.53	0.052
071618	Soil	0.10	7.46	5.77	19.6	41	6.8	2.6	104	0.95	5.4	0.4	0.5	1.0	20.0	0.03	0.15	0.11	7	0.15	0.020
071619	Soil	0.22	18.26	14.93	45.7	24	24.7	8.5	339	2.59	14.9	0.6	0.7	10.4	16.6	0.02	0.32	0.25	12	0.11	0.014
071620	Soil	0.34	17.75	18.56	73.3	38	27.0	12.7	486	3.08	28.5	1.3	0.8	6.8	36.4	0.17	0.52	0.30	9	0.45	0.037
071621	Soil	0.37	24.11	35.41	78.8	139	29.4	17.6	815	3.33	32.1	1.2	2.9	7.7	36.8	0.13	0.54	0.33	8	0.42	0.051
071622	Soil	0.29	26.41	21.17	74.5	82	36.3	13.3	530	3.57	34.6	1.2	2.7	8.4	23.3	0.09	0.52	0.35	9	0.23	0.044
071623	Soil	0.33	20.03	22.71	69.8	125	30.0	11.2	409	3.43	34.5	1.1	2.4	8.1	25.3	0.06	0.48	0.40	10	0.24	0.053
071624	Soil	0.26	12.24	16.25	40.7	47	24.9	9.9	187	2.51	37.7	0.5	3.8	7.7	6.2	0.02	0.22	0.27	12	0.02	0.018
071625	Soil	0.32	6.30	9.90	37.4	41	11.9	5.2	171	2.10	13.8	0.4	<0.2	5.6	6.9	0.02	0.17	0.26	15	0.02	0.014
071626	Soil	0.55	18.87	21.41	57.6	28	14.7	5.7	181	2.72	123.4	0.6	2.1	4.0	6.4	0.12	0.67	0.63	17	<0.01	0.041
071627	Soil	0.42	11.08	19.05	46.8	46	12.8	4.8	155	2.86	116.7	0.5	1.3	5.5	6.3	0.15	0.49	0.54	16	<0.01	0.045
071628	Soil	0.46	23.46	16.23	71.8	37	18.5	6.7	172	3.43	299.4	0.7	19.8	7.1	6.7	0.10	0.89	0.88	13	<0.01	0.045
071629	Soil	0.57	13.01	16.37	45.0	246	13.0	5.4	184	3.33	155.4	0.6	7.4	5.6	5.4	0.13	0.66	0.68	22	<0.01	0.048
071630	Soil	0.36	22.28	28.98	68.8	179	17.2	6.8	239	2.56	224.2	0.9	11.6	3.1	9.5	0.20	0.66	0.88	10	0.02	0.041
071631	Soil	0.69	37.39	31.32	93.1	25	33.6	11.1	309	4.24	95.1	1.0	9.4	10.1	5.8	0.08	0.92	0.70	14	<0.01	0.037
071632	Soil	0.71	38.78	34.26	96.4	29	34.9	11.4	336	4.33	98.0	1.1	5.4	10.5	6.1	0.10	0.97	0.70	14	<0.01	0.036
071633	Soil	0.65	35.48	22.56	80.0	139	32.8	11.4	221	3.57	68.7	0.8	2.9	9.6	4.9	0.07	0.93	0.62	13	<0.01	0.030
071634	Soil	0.55	39.31	35.07	93.7	36	34.0	10.8	309	4.26	102.3	1.0	7.2	12.7	5.8	0.09	0.88	0.73	13	<0.01	0.022
071635	Soil	0.38	24.20	23.42	93.6	45	28.0	10.4	374	3.63	167.8	0.8	5.8	9.8	8.4	0.23	0.62	0.87	11	<0.01	0.024
071636	Soil	0.38	30.20	32.80	79.7	182	31.1	12.2	525	3.05	213.6	1.5	10.7	8.2	25.0	0.52	0.64	1.15	9	0.14	0.044
071637	Soil	1.12	57.25	33.68	144.9	103	45.9	14.8	474	4.99	132.7	1.5	8.2	10.7	7.3	0.16	0.53	0.69	15	0.04	0.049
071638	Soil	0.65	26.03	33.17	55.5	324	18.0	6.8	212	2.95	135.4	1.0	45.1	4.1	7.6	0.13	0.81	0.86	14	<0.01	0.045
071639	Soil	0.19	5.07	6.00	14.9	101	3.5	1.5	37	0.66	23.0	0.3	3.4	1.6	3.6	0.01	0.22	0.12	7	<0.01	0.016



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000273.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
071900	Soil	29.9	17.6	0.43	43.9	0.002	1	1.38	0.004	0.08	0.2	1.3	0.07	<0.02	14	<0.1	0.06	3.9	1.02	<0.1	<0.02
071611	Soil	12.6	16.0	0.41	58.9	0.003	2	1.17	0.007	0.08	<0.1	1.7	0.05	0.08	31	1.1	<0.02	3.3	0.74	<0.1	0.07
071612	Soil	30.8	18.8	0.44	78.1	0.004	<1	1.60	0.009	0.12	<0.1	2.8	0.09	<0.02	29	0.2	0.05	4.6	0.83	<0.1	0.11
071613	Soil	36.5	20.4	0.48	75.6	0.003	<1	1.63	0.006	0.14	<0.1	3.5	0.08	<0.02	38	<0.1	0.03	4.5	0.85	<0.1	0.13
071614	Soil	15.9	18.0	0.43	40.2	0.003	<1	1.27	0.009	0.04	<0.1	1.8	0.04	0.03	20	0.5	0.03	3.7	0.50	<0.1	<0.02
071615	Soil	8.0	11.9	0.33	79.7	0.004	3	1.06	0.018	0.09	<0.1	1.2	0.06	0.12	44	1.6	<0.02	3.1	0.64	<0.1	0.07
071616	Soil	9.8	10.5	0.29	68.1	0.005	1	1.06	0.026	0.07	<0.1	1.2	0.05	0.07	36	0.9	0.03	2.6	0.58	<0.1	0.04
071617	Soil	23.5	23.4	0.58	71.9	0.002	<1	1.79	0.006	0.10	<0.1	2.6	0.06	0.03	41	0.6	0.05	4.5	0.88	<0.1	0.09
071618	Soil	9.0	6.4	0.14	43.1	0.005	<1	0.65	0.027	0.05	<0.1	0.7	0.04	<0.02	12	0.3	<0.02	2.1	0.37	<0.1	<0.02
071619	Soil	30.8	19.4	0.49	51.0	0.005	<1	1.60	0.007	0.11	0.1	2.5	0.08	<0.02	9	0.2	<0.02	4.0	0.81	<0.1	0.05
071620	Soil	21.4	19.6	0.56	22.4	0.002	<1	1.33	0.004	0.04	0.1	1.6	<0.02	0.03	31	0.5	0.06	3.7	0.45	<0.1	0.07
071621	Soil	21.1	21.8	0.55	18.6	0.002	7	1.41	0.006	0.04	0.2	2.2	0.03	0.03	39	0.3	0.04	3.9	0.55	<0.1	0.06
071622	Soil	20.8	22.8	0.66	23.2	0.002	<1	1.56	0.003	0.03	<0.1	2.2	<0.02	<0.02	22	0.1	0.04	4.4	0.43	<0.1	0.04
071623	Soil	24.4	22.3	0.62	37.0	0.002	<1	1.63	0.006	0.03	0.2	1.6	0.04	<0.02	20	0.3	0.03	4.9	0.75	<0.1	0.03
071624	Soil	24.0	18.0	0.45	64.9	0.009	<1	1.90	0.005	0.09	0.1	2.0	0.08	<0.02	27	<0.1	<0.02	4.1	0.99	<0.1	0.10
071625	Soil	21.8	14.9	0.37	49.7	0.012	<1	1.33	0.004	0.06	0.2	1.5	0.07	<0.02	12	<0.1	<0.02	4.2	0.96	<0.1	0.04
071626	Soil	25.8	10.5	0.13	23.5	0.005	<1	0.70	0.003	0.05	0.3	0.9	0.07	<0.02	15	<0.1	0.06	4.7	1.25	<0.1	<0.02
071627	Soil	23.9	11.8	0.17	20.2	0.007	<1	0.84	0.004	0.04	0.2	1.1	0.06	<0.02	18	<0.1	0.03	4.8	0.97	<0.1	<0.02
071628	Soil	23.6	11.4	0.14	16.5	0.002	2	0.62	0.003	0.03	0.4	1.1	0.05	<0.02	<5	<0.1	0.05	4.0	0.64	<0.1	<0.02
071629	Soil	22.6	13.8	0.17	21.5	0.013	<1	0.80	0.002	0.03	0.3	1.2	0.07	<0.02	24	0.7	0.04	5.7	0.99	<0.1	<0.02
071630	Soil	12.8	10.6	0.15	44.9	0.002	1	0.75	0.008	0.07	0.3	1.0	0.07	<0.02	17	0.2	0.08	3.1	1.46	<0.1	<0.02
071631	Soil	21.9	23.0	0.46	31.9	0.002	2	1.26	0.003	0.06	0.3	1.8	0.06	<0.02	9	0.1	0.06	4.3	1.01	<0.1	0.04
071632	Soil	23.2	23.8	0.47	32.8	0.002	<1	1.29	0.003	0.06	0.2	1.9	0.06	<0.02	15	0.3	0.07	4.2	1.08	<0.1	0.04
071633	Soil	20.2	16.8	0.33	25.3	0.001	<1	1.00	0.003	0.04	0.2	1.3	0.06	<0.02	19	<0.1	0.05	4.8	1.13	<0.1	0.02
071634	Soil	25.5	22.5	0.48	37.6	0.002	2	1.39	0.004	0.06	0.3	2.0	0.07	<0.02	11	0.3	0.05	4.0	1.14	<0.1	0.05
071635	Soil	23.5	19.0	0.42	46.2	0.002	<1	1.23	0.003	0.06	0.2	1.6	0.06	<0.02	7	<0.1	0.12	4.4	1.58	<0.1	<0.02
071636	Soil	14.9	14.6	0.27	74.3	0.002	2	1.04	0.005	0.07	0.4	1.7	0.09	0.03	34	0.7	0.05	3.4	3.17	0.1	0.03
071637	Soil	19.2	28.7	0.65	21.5	0.004	1	1.71	0.003	0.03	<0.1	2.1	0.03	<0.02	14	0.4	0.09	4.8	1.85	0.1	0.06
071638	Soil	15.4	12.5	0.21	35.4	0.003	2	0.92	0.007	0.05	0.3	1.0	0.08	<0.02	19	0.1	0.07	4.2	2.15	<0.1	<0.02
071639	Soil	11.3	2.7	0.02	9.4	0.003	2	0.27	0.012	0.02	0.1	0.3	0.04	<0.02	14	0.1	0.02	1.8	0.52	<0.1	<0.02



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
071900	Soil	0.12	8.2	0.3	<0.05	0.9	2.62	54.1	0.03	1	0.3	37.1	<10	<2
071611	Soil	0.31	6.5	0.7	<0.05	2.5	3.94	23.3	<0.02	<1	0.3	34.5	<10	<2
071612	Soil	0.29	8.5	0.4	<0.05	6.2	7.32	58.6	<0.02	<1	0.3	41.7	<10	<2
071613	Soil	0.28	8.5	1.4	<0.05	5.9	9.58	65.7	<0.02	<1	0.7	45.8	<10	<2
071614	Soil	0.17	4.3	0.3	<0.05	1.2	5.14	30.7	0.04	1	0.4	46.2	<10	<2
071615	Soil	0.42	7.6	0.7	<0.05	3.0	4.55	15.0	<0.02	<1	0.5	25.2	<10	<2
071616	Soil	0.42	5.6	0.2	<0.05	2.2	4.02	18.3	<0.02	<1	0.3	24.7	<10	<2
071617	Soil	0.30	7.5	0.9	<0.05	3.4	7.69	42.3	0.02	<1	0.4	50.8	<10	3
071618	Soil	0.16	4.1	0.3	<0.05	0.2	1.60	16.4	<0.02	<1	0.3	12.7	<10	<2
071619	Soil	0.26	9.9	1.0	<0.05	3.5	6.31	57.1	<0.02	<1	0.6	37.7	<10	<2
071620	Soil	0.15	4.5	0.2	<0.05	2.1	3.43	38.4	<0.02	<1	0.3	42.0	<10	<2
071621	Soil	0.13	2.9	3.4	<0.05	2.1	5.85	40.4	0.03	<1	0.3	44.1	<10	2
071622	Soil	0.08	2.4	0.2	<0.05	2.5	5.79	39.1	<0.02	<1	0.6	50.6	<10	<2
071623	Soil	0.15	4.0	0.3	<0.05	2.2	3.97	44.9	<0.02	<1	0.3	49.3	<10	<2
071624	Soil	0.54	11.6	0.3	<0.05	3.2	2.97	46.5	<0.02	<1	0.8	38.9	<10	<2
071625	Soil	0.64	12.2	1.1	<0.05	1.9	1.85	40.3	<0.02	<1	0.1	29.5	<10	<2
071626	Soil	0.23	7.9	0.4	<0.05	0.2	1.75	44.3	<0.02	<1	0.3	8.5	<10	<2
071627	Soil	0.53	7.0	2.1	<0.05	0.4	1.55	42.5	<0.02	<1	0.3	10.5	<10	<2
071628	Soil	0.13	4.8	0.3	<0.05	0.4	1.48	42.9	0.04	1	0.2	10.4	<10	<2
071629	Soil	0.80	5.9	0.6	<0.05	0.5	1.50	38.6	<0.02	<1	0.1	9.0	<10	<2
071630	Soil	0.13	8.9	0.4	<0.05	0.3	1.63	22.6	0.03	<1	0.2	11.4	<10	<2
071631	Soil	0.14	5.4	0.6	<0.05	1.3	1.74	37.7	0.03	<1	0.5	29.8	<10	<2
071632	Soil	0.17	5.3	0.4	<0.05	1.3	2.03	39.0	<0.02	<1	0.2	30.0	<10	<2
071633	Soil	0.09	5.9	0.8	<0.05	1.1	1.51	35.2	0.03	1	0.3	19.2	<10	<2
071634	Soil	0.14	6.4	0.2	<0.05	3.2	2.02	44.6	0.03	<1	0.5	36.7	<10	<2
071635	Soil	0.09	6.8	0.7	<0.05	1.2	1.95	40.6	<0.02	<1	0.5	31.5	<10	<2
071636	Soil	0.13	9.2	0.4	<0.05	1.0	6.05	25.8	0.02	<1	0.8	24.9	<10	<2
071637	Soil	0.20	3.6	1.1	<0.05	3.6	2.26	32.5	0.04	<1	0.3	52.9	<10	<2
071638	Soil	0.27	9.6	0.3	<0.05	0.4	1.53	28.2	<0.02	<1	0.2	16.0	<10	<2
071639	Soil	0.08	3.2	0.2	<0.05	<0.1	0.61	19.4	<0.02	<1	<0.1	1.1	<10	<2



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**Project:** None Given  
**Report Date:** September 23, 2016

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**Part:** 1 of 3

# CERTIFICATE OF ANALYSIS

WHI16000273.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
071640	Soil	0.84	21.93	21.11	82.6	43	21.5	10.1	349	3.91	122.1	0.6	6.3	7.1	7.9	0.11	0.95	0.73	23	0.01	0.032
071831	Soil	0.33	21.76	18.43	70.2	39	27.8	12.4	457	3.28	31.7	1.6	4.1	9.7	9.5	0.03	0.36	0.33	10	0.07	0.031
071832	Soil	0.34	29.71	22.59	66.6	66	27.3	13.3	424	3.25	33.5	3.7	3.8	11.0	15.5	0.07	0.51	0.42	14	0.09	0.017
071833	Soil	0.25	15.67	15.04	43.9	38	23.3	8.8	234	2.42	14.1	0.5	1.9	7.4	8.0	0.03	0.21	0.25	16	0.05	0.021
071834	Soil	0.28	10.12	11.91	31.0	53	15.2	6.6	157	2.01	11.4	0.4	0.5	5.9	4.9	0.02	0.18	0.25	14	0.02	0.020
071835	Soil	0.56	17.14	19.61	65.8	58	23.3	10.3	279	3.93	63.3	0.5	1.4	7.2	6.5	0.05	0.41	0.56	16	0.02	0.048
071836	Soil	0.37	19.12	15.89	66.8	19	30.8	11.1	274	3.93	38.9	0.5	0.5	7.8	6.8	<0.01	0.34	0.43	15	0.02	0.016
071837	Soil	0.24	10.68	13.22	42.7	26	21.7	7.7	196	2.51	17.7	0.4	0.4	6.4	8.3	0.02	0.18	0.25	13	0.03	0.017
071838	Soil	0.47	32.59	21.87	70.5	159	25.6	11.3	673	2.57	39.2	7.1	2.8	2.2	104.3	0.34	0.46	0.34	12	1.52	0.052
071839	Soil	0.54	46.11	92.48	70.1	111	55.3	35.8	732	5.01	64.4	1.6	3.0	10.7	36.9	0.04	1.17	0.57	7	0.38	0.039
071840	Soil	0.33	4.75	10.12	24.7	58	5.6	3.6	188	1.68	10.2	0.3	<0.2	3.1	6.4	0.05	0.25	0.27	21	0.04	0.017
071841	Soil	0.17	23.89	18.89	57.1	39	26.7	12.4	497	2.91	19.8	0.6	3.1	9.9	20.6	<0.01	0.46	0.33	12	0.19	0.042
071842	Soil	0.22	25.08	17.24	58.8	35	28.2	11.3	458	2.94	20.7	0.6	3.4	9.8	44.3	0.03	0.44	0.32	12	0.55	0.036
071843	Soil	0.27	16.50	13.79	50.6	9	23.6	8.3	229	2.91	19.2	0.5	2.1	7.6	8.9	<0.01	0.31	0.29	12	0.06	0.018
071844	Soil	0.26	12.21	14.81	49.5	23	21.4	8.9	256	2.78	13.3	0.5	2.0	7.1	16.4	0.03	0.35	0.27	11	0.14	0.018
071845	Soil	0.21	20.30	18.04	54.3	18	26.3	10.4	361	2.84	15.5	0.6	2.5	9.8	18.3	0.03	0.54	0.34	11	0.15	0.036
071846	Soil	0.06	7.40	12.10	3.9	75	2.0	1.1	16	0.28	0.7	0.5	<0.2	0.8	13.3	0.04	0.04	0.06	5	0.07	0.013
071847	Soil	0.40	10.47	22.62	50.4	65	19.0	10.0	361	2.77	10.1	1.5	1.5	5.5	52.1	0.08	0.31	0.33	13	0.61	0.020
071848	Soil	0.44	11.73	12.87	52.9	71	20.9	12.8	518	2.97	23.8	0.5	9.2	4.7	14.0	0.10	0.44	0.39	15	0.12	0.033
071849	Soil	0.34	27.49	23.38	42.9	192	24.4	10.7	582	2.27	13.2	2.5	1.6	1.5	134.3	0.17	0.69	0.34	7	1.93	0.061



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**Project:** None Given  
**Report Date:** September 23, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000273.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
071640	Soil	23.7	19.1	0.28	29.5	0.010	1	1.07	0.003	0.04	0.3	1.4	0.07	<0.02	10	<0.1	0.13	6.3	1.34	<0.1	<0.02
071831	Soil	24.6	22.0	0.59	28.1	0.003	<1	1.58	0.003	0.03	<0.1	1.7	0.04	<0.02	13	0.3	0.06	4.4	0.66	0.2	0.04
071832	Soil	30.1	22.1	0.49	44.3	0.005	<1	1.66	0.006	0.08	0.1	2.9	0.05	<0.02	14	0.2	0.05	4.7	0.90	<0.1	0.03
071833	Soil	21.2	20.2	0.51	46.5	0.019	1	1.77	0.008	0.07	0.2	2.1	0.08	<0.02	14	0.3	0.04	4.7	0.83	0.1	0.04
071834	Soil	18.3	15.2	0.34	75.1	0.011	3	1.61	0.006	0.07	0.2	1.5	0.07	<0.02	10	0.2	0.06	4.4	0.77	<0.1	0.07
071835	Soil	24.8	22.0	0.53	40.7	0.004	<1	1.71	0.004	0.03	0.1	1.6	0.06	<0.02	16	0.2	0.08	6.1	1.43	0.2	0.04
071836	Soil	25.6	27.9	0.66	52.4	0.006	2	2.08	0.005	0.06	0.1	2.2	0.07	<0.02	6	0.4	0.04	5.9	1.28	<0.1	0.05
071837	Soil	22.2	18.2	0.44	64.2	0.008	<1	1.61	0.005	0.06	0.2	1.7	0.07	<0.02	17	0.1	<0.02	4.0	0.89	<0.1	0.05
071838	Soil	18.3	17.9	0.42	43.7	0.015	2	1.13	0.005	0.04	0.4	2.6	0.04	0.05	21	1.0	0.03	3.3	0.95	0.2	0.03
071839	Soil	28.2	21.8	0.49	23.7	0.003	2	1.98	0.004	0.03	<0.1	3.8	0.07	0.02	29	0.4	0.03	3.8	0.78	0.1	0.04
071840	Soil	14.4	7.9	0.12	39.1	0.008	1	0.80	0.011	0.02	0.2	0.7	0.05	<0.02	<5	<0.1	0.04	3.6	0.48	0.1	<0.02
071841	Soil	28.2	19.8	0.54	31.2	0.013	1	1.42	0.008	0.09	<0.1	2.3	0.07	<0.02	5	<0.1	0.03	3.6	0.76	0.2	0.06
071842	Soil	29.1	21.7	0.52	57.0	0.008	<1	1.62	0.013	0.12	0.1	2.5	0.08	<0.02	<5	0.1	0.05	4.7	0.92	0.1	0.05
071843	Soil	29.0	19.5	0.49	43.3	0.004	1	1.51	0.005	0.07	0.1	1.7	0.06	<0.02	<5	0.2	<0.02	4.3	0.82	<0.1	0.03
071844	Soil	22.8	16.5	0.41	61.2	0.004	2	1.38	0.004	0.07	<0.1	1.5	0.06	<0.02	6	0.2	<0.02	4.0	0.69	<0.1	0.04
071845	Soil	31.1	18.2	0.46	54.6	0.005	2	1.41	0.005	0.09	<0.1	2.3	0.05	<0.02	<5	0.3	0.03	3.7	0.61	<0.1	0.05
071846	Soil	2.8	1.9	0.02	24.8	0.008	<1	0.40	0.023	0.02	<0.1	0.4	0.03	<0.02	6	<0.1	0.03	1.3	0.31	<0.1	<0.02
071847	Soil	17.8	14.6	0.29	57.5	0.009	2	0.96	0.004	0.04	0.1	2.0	0.06	<0.02	18	0.6	0.02	2.9	0.57	<0.1	0.02
071848	Soil	18.4	19.1	0.45	39.9	0.007	1	1.24	0.005	0.05	0.2	1.3	0.05	<0.02	8	<0.1	0.06	4.8	1.06	0.1	0.02
071849	Soil	8.6	13.1	0.28	59.1	0.006	1	0.93	0.008	0.03	<0.1	1.4	0.04	0.08	50	0.7	0.06	2.6	0.74	<0.1	0.03



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**Project:** None Given  
**Report Date:** September 23, 2016

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**Part:** 3 of 3

# CERTIFICATE OF ANALYSIS

WHI16000273.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
071640	Soil	0.71	8.5	0.6	<0.05	1.0	1.77	41.5	<0.02	1	0.4	21.2	<10	<2
071831	Soil	0.13	4.7	0.2	<0.05	2.4	3.37	46.3	<0.02	2	0.6	49.4	<10	2
071832	Soil	0.31	9.9	0.3	<0.05	2.9	6.35	55.5	0.02	3	0.5	43.9	<10	<2
071833	Soil	0.70	10.2	0.4	<0.05	1.6	2.96	39.9	<0.02	<1	0.4	35.3	<10	<2
071834	Soil	0.82	8.9	0.4	<0.05	3.0	2.04	33.8	<0.02	<1	0.4	25.5	<10	<2
071835	Soil	0.37	10.9	0.5	<0.05	2.3	1.59	44.3	<0.02	1	0.3	48.8	<10	<2
071836	Soil	0.46	11.0	0.4	<0.05	3.7	2.19	48.0	<0.02	<1	0.6	57.4	<10	3
071837	Soil	0.48	10.2	0.4	<0.05	2.5	2.27	41.1	0.02	<1	0.4	33.1	<10	<2
071838	Soil	0.91	8.3	0.3	<0.05	1.0	9.73	30.2	<0.02	<1	0.7	35.7	<10	<2
071839	Soil	0.26	5.7	0.2	<0.05	1.9	11.68	69.0	0.03	<1	1.2	50.2	<10	<2
071840	Soil	0.59	4.1	0.4	<0.05	0.6	1.09	26.5	<0.02	<1	0.2	12.1	<10	<2
071841	Soil	0.41	7.9	1.1	<0.05	3.8	5.75	50.4	<0.02	<1	0.3	40.7	<10	<2
071842	Soil	0.53	10.2	0.5	<0.05	5.0	5.33	52.0	<0.02	<1	0.2	44.8	<10	<2
071843	Soil	0.43	8.7	0.5	<0.05	1.8	3.33	51.0	<0.02	<1	0.7	41.0	<10	<2
071844	Soil	0.35	8.3	0.2	<0.05	1.6	2.39	42.5	<0.02	<1	0.3	35.1	<10	<2
071845	Soil	0.18	6.3	0.3	<0.05	2.9	5.48	55.4	<0.02	<1	0.4	37.7	<10	<2
071846	Soil	0.28	1.8	0.1	<0.05	0.7	1.08	5.3	<0.02	<1	0.3	2.1	<10	<2
071847	Soil	0.78	5.6	0.5	<0.05	1.2	4.61	42.3	<0.02	<1	0.2	25.7	<10	<2
071848	Soil	0.50	12.4	0.2	<0.05	0.7	1.79	36.0	<0.02	2	0.3	42.0	<10	<2
071849	Soil	0.42	4.6	0.6	<0.05	1.3	5.62	18.0	<0.02	<1	0.7	31.3	<10	<2



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**Project:** None Given  
**Report Date:** September 23, 2016

**Page:** 1 of 2 **Part:** 1 of 3

# QUALITY CONTROL REPORT

# WHI16000273.1

Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
072167	Soil	0.66	10.66	16.61	42.3	52	12.3	6.3	216	2.93	14.8	0.6	2.8	7.0	7.2	0.05	0.36	0.40	36	0.06	0.032
REP 072167	QC	0.70	11.08	16.81	44.3	50	12.8	6.2	210	2.94	14.6	0.6	0.3	7.1	7.2	0.06	0.39	0.40	36	0.06	0.034
071873	Soil	0.44	22.47	25.04	95.0	99	34.2	11.4	358	4.44	68.8	0.7	2.1	10.4	6.1	0.20	0.58	0.46	18	<0.01	0.023
REP 071873	QC	0.45	23.98	25.22	92.2	98	34.0	11.8	384	4.62	68.0	0.7	3.6	10.8	7.4	0.23	0.64	0.44	18	<0.01	0.026
071549	Soil	0.61	32.16	23.96	77.1	61	27.3	9.1	197	3.76	87.4	0.9	4.0	10.1	5.2	0.04	0.68	0.63	14	<0.01	0.027
REP 071549	QC	0.54	32.22	24.48	77.1	76	27.9	9.3	210	3.81	89.7	0.9	5.0	10.6	5.8	0.01	0.75	0.66	14	<0.01	0.029
073935	Soil	0.87	38.50	35.07	93.7	102	36.9	16.8	662	3.73	27.0	4.0	3.7	7.5	35.7	0.25	0.60	0.54	13	0.56	0.054
REP 073935	QC	0.93	38.39	33.76	97.4	94	37.9	16.6	651	3.77	27.2	3.9	17.7	7.3	35.8	0.21	0.57	0.53	13	0.55	0.053
071711	Soil	0.34	18.96	33.83	133.3	218	25.8	8.7	348	3.17	609.8	0.9	37.6	7.2	16.8	0.45	0.46	0.80	12	0.10	0.036
REP 071711	QC	0.34	19.30	34.39	136.2	211	26.4	9.0	360	3.23	633.5	0.9	10.8	7.2	16.6	0.48	0.49	0.79	13	0.10	0.038
073877	Soil	0.48	31.91	26.37	88.8	82	34.9	17.3	596	3.51	67.6	1.4	6.0	10.2	9.4	0.13	0.63	0.64	11	0.05	0.031
REP 073877	QC	0.48	33.70	26.74	92.0	99	37.8	17.4	619	3.54	71.6	1.5	29.0	10.5	10.0	0.10	0.60	0.64	11	0.05	0.034
073629	Soil	0.56	14.12	20.45	50.1	64	14.5	5.6	148	2.81	134.9	0.7	7.7	8.2	5.9	0.10	0.50	0.58	17	<0.01	0.030
REP 073629	QC	0.54	14.49	18.63	50.3	43	14.7	5.7	149	2.81	136.9	0.6	4.9	7.9	5.9	0.09	0.49	0.56	17	<0.01	0.031
073867	Soil	0.83	27.19	36.52	76.2	108	20.5	8.1	296	3.02	110.1	1.0	4.7	2.3	10.4	0.17	1.26	0.90	20	0.01	0.038
REP 073867	QC	0.92	25.56	37.22	72.6	109	19.9	8.4	296	3.01	109.3	1.0	4.6	2.3	11.4	0.21	1.27	0.93	20	0.02	0.038
071635	Soil	0.38	24.20	23.42	93.6	45	28.0	10.4	374	3.63	167.8	0.8	5.8	9.8	8.4	0.23	0.62	0.87	11	<0.01	0.024
REP 071635	QC	0.39	25.40	23.52	97.8	46	28.3	10.5	368	3.62	170.8	0.8	7.6	10.3	8.3	0.23	0.61	0.87	11	<0.01	0.022
Reference Materials																					
STD DS10	Standard	15.61	159.37	146.34	371.3	1860	77.1	13.1	897	2.71	47.6	2.8	69.4	7.8	74.4	2.56	10.24	13.05	42	1.09	0.072
STD DS10	Standard	14.66	160.81	156.16	367.7	1755	74.3	13.2	866	2.77	43.2	2.7	69.7	8.1	61.1	2.44	9.11	12.55	42	1.07	0.072
STD DS10	Standard	15.27	163.37	158.29	375.3	2036	77.2	12.9	894	2.80	48.4	3.0	83.0	8.2	75.4	2.75	11.26	13.93	41	1.05	0.075
STD DS10	Standard	15.99	156.67	155.95	369.8	1889	75.1	12.9	901	2.78	46.6	2.9	89.3	8.1	73.6	2.56	10.38	13.39	43	1.10	0.072
STD DS10	Standard	14.78	150.76	152.86	358.2	1890	71.7	12.0	862	2.70	45.3	2.8	84.6	7.8	72.5	2.61	10.47	13.40	42	1.06	0.073
STD DS10	Standard	16.44	158.10	159.32	372.9	1819	76.5	12.8	895	2.82	45.4	2.8	90.0	8.0	68.5	2.58	9.81	11.98	43	1.10	0.072
STD DS10	Standard	16.35	153.08	154.41	366.1	1805	75.8	13.0	915	2.81	42.8	2.9	70.7	8.0	69.4	2.51	9.52	11.87	44	1.11	0.075
STD DS10	Standard	14.52	154.55	150.95	351.8	1885	79.3	13.2	887	2.77	45.3	2.6	99.0	7.3	67.6	2.57	10.05	13.05	42	1.06	0.069
STD DS10	Standard	15.35	150.53	152.99	362.3	1772	74.0	12.7	839	2.75	44.1	2.8	65.7	8.1	65.5	2.45	9.53	11.59	43	1.08	0.076



# QUALITY CONTROL REPORT

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Ti	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
Pulp Duplicates																					
072167	Soil	27.6	17.9	0.28	50.2	0.024	<1	1.50	0.003	0.04	0.2	1.6	0.11	<0.02	16	<0.1	0.03	6.7	1.05	<0.1	<0.02
REP 072167	QC	26.5	18.1	0.29	49.6	0.024	<1	1.50	0.003	0.04	0.3	1.7	0.10	<0.02	11	<0.1	0.05	6.4	1.06	<0.1	<0.02
071873	Soil	33.6	28.3	0.67	36.6	0.003	2	2.06	0.005	0.06	0.2	1.8	0.05	<0.02	28	0.1	0.05	5.6	1.17	<0.1	0.04
REP 071873	QC	35.7	30.1	0.70	40.3	0.005	3	2.07	0.005	0.07	0.3	2.1	0.06	<0.02	16	0.3	0.06	6.0	1.20	<0.1	0.02
071549	Soil	28.8	17.6	0.31	25.9	0.001	1	1.13	0.003	0.05	0.2	1.4	0.05	<0.02	10	0.2	0.05	3.7	1.20	<0.1	<0.02
REP 071549	QC	31.1	17.4	0.33	27.8	0.003	<1	1.17	0.003	0.06	0.2	1.4	0.05	<0.02	13	<0.1	0.06	3.7	1.32	<0.1	<0.02
073935	Soil	14.8	24.5	0.68	44.6	0.001	2	1.77	0.006	0.05	<0.1	2.2	0.07	0.04	38	0.5	0.06	5.0	1.83	<0.1	0.07
REP 073935	QC	15.8	23.9	0.69	45.2	0.002	1	1.80	0.006	0.05	<0.1	2.1	0.07	0.04	43	0.6	0.06	5.3	1.82	<0.1	0.06
071711	Soil	19.9	17.9	0.41	56.5	0.002	<1	1.32	0.007	0.07	0.2	1.5	0.11	<0.02	28	<0.1	0.04	4.0	3.65	<0.1	0.02
REP 071711	QC	20.0	18.1	0.40	54.0	0.002	<1	1.34	0.007	0.08	0.3	1.4	0.12	<0.02	23	<0.1	0.06	4.2	3.72	<0.1	0.02
073877	Soil	24.2	19.5	0.49	39.9	0.003	1	1.37	0.005	0.06	0.3	1.8	0.07	<0.02	23	0.6	0.07	3.9	1.40	<0.1	<0.02
REP 073877	QC	25.4	20.6	0.50	41.4	0.003	<1	1.38	0.006	0.06	0.3	1.8	0.07	<0.02	28	<0.1	<0.02	4.4	1.40	<0.1	<0.02
073629	Soil	28.4	13.6	0.16	45.2	0.004	1	1.18	0.002	0.03	0.3	1.0	0.06	<0.02	24	<0.1	0.04	4.6	0.97	<0.1	0.02
REP 073629	QC	28.7	13.8	0.16	44.4	0.004	<1	1.18	0.002	0.03	0.2	1.2	0.06	<0.02	18	0.2	0.04	4.7	0.97	<0.1	<0.02
073867	Soil	18.4	16.2	0.21	34.0	0.011	<1	0.85	0.003	0.04	0.4	0.9	0.10	<0.02	19	0.3	0.09	4.8	2.07	<0.1	<0.02
REP 073867	QC	18.9	17.3	0.22	34.5	0.011	<1	0.89	0.004	0.04	0.3	1.2	0.11	<0.02	22	0.5	0.08	4.5	2.20	<0.1	<0.02
071635	Soil	23.5	19.0	0.42	46.2	0.002	<1	1.23	0.003	0.06	0.2	1.6	0.06	<0.02	7	<0.1	0.12	4.4	1.58	<0.1	<0.02
REP 071635	QC	23.7	20.1	0.43	48.3	0.002	2	1.23	0.003	0.06	0.3	1.6	0.06	<0.02	11	0.1	0.09	4.1	1.61	<0.1	0.03
Reference Materials																					
STD DS10	Standard	19.2	55.0	0.80	379.9	0.084	6	1.06	0.077	0.36	3.3	3.0	5.26	0.28	298	2.3	4.95	4.3	2.81	<0.1	0.05
STD DS10	Standard	17.6	56.7	0.78	335.1	0.081	7	1.07	0.073	0.34	3.1	2.7	5.33	0.29	305	2.3	4.65	4.5	2.65	<0.1	0.05
STD DS10	Standard	19.3	56.5	0.76	386.9	0.083	6	1.03	0.068	0.33	3.9	2.8	5.55	0.26	310	2.2	5.10	4.1	2.92	<0.1	0.04
STD DS10	Standard	19.8	57.2	0.79	383.5	0.084	7	1.10	0.075	0.35	3.7	3.1	5.44	0.29	288	2.1	5.20	4.6	2.79	<0.1	0.04
STD DS10	Standard	18.2	55.1	0.76	360.2	0.078	6	1.05	0.072	0.34	3.3	3.0	5.33	0.28	302	2.3	4.94	4.2	2.72	0.1	0.05
STD DS10	Standard	19.2	56.5	0.80	381.2	0.085	8	1.12	0.076	0.35	3.7	2.8	5.34	0.29	332	2.6	5.28	4.3	2.88	<0.1	0.05
STD DS10	Standard	20.1	57.7	0.80	375.9	0.088	8	1.18	0.068	0.36	3.3	3.3	5.38	0.29	292	2.4	5.29	4.4	2.84	<0.1	0.08
STD DS10	Standard	17.9	57.8	0.77	351.6	0.081	7	1.05	0.072	0.33	3.5	2.8	5.21	0.28	269	2.5	5.35	4.5	2.69	0.2	0.06
STD DS10	Standard	19.2	56.9	0.77	368.4	0.085	10	1.11	0.075	0.35	3.5	3.3	5.07	0.28	263	1.9	4.79	4.5	2.74	<0.1	0.05



Bureau Veritas Commodities Canada Ltd.  
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Project: None Given  
Report Date: September 23, 2016

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# QUALITY CONTROL REPORT

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates														
072167	Soil	1.08	10.2	0.7	<0.05	1.3	2.71	52.8	<0.02	<1	0.5	24.4	<10	<2
REP 072167	QC	1.16	10.4	1.1	<0.05	1.3	2.67	51.5	<0.02	<1	0.5	24.8	<10	<2
071873	Soil	0.20	6.9	0.5	<0.05	2.4	1.84	65.2	<0.02	<1	0.2	51.8	<10	<2
REP 071873	QC	0.27	7.9	0.5	<0.05	2.7	2.01	68.9	0.04	<1	0.2	53.6	<10	<2
071549	Soil	0.15	6.2	0.3	<0.05	1.2	1.93	50.2	0.03	<1	0.4	24.3	<10	<2
REP 071549	QC	0.17	6.5	0.3	<0.05	1.2	1.94	54.6	0.02	<1	0.4	25.5	<10	<2
073935	Soil	0.13	5.6	0.3	<0.05	2.4	4.50	25.1	0.02	<1	0.5	51.3	<10	<2
REP 073935	QC	0.13	5.6	0.3	<0.05	2.5	4.62	27.4	0.02	<1	0.4	52.7	<10	3
071711	Soil	0.17	10.4	0.4	<0.05	0.9	2.16	35.0	0.02	<1	0.4	33.7	<10	<2
REP 071711	QC	0.17	10.6	0.4	<0.05	1.4	2.11	35.8	0.03	<1	0.4	34.7	<10	<2
073877	Soil	0.16	6.7	0.7	<0.05	1.2	3.69	44.5	<0.02	<1	0.5	38.6	<10	3
REP 073877	QC	0.16	6.9	0.6	<0.05	1.0	3.76	47.3	<0.02	2	0.6	39.0	<10	<2
073629	Soil	0.41	7.4	1.4	<0.05	1.4	1.96	49.4	<0.02	<1	0.4	16.0	<10	<2
REP 073629	QC	0.50	7.2	1.2	<0.05	1.3	1.90	49.3	<0.02	<1	0.3	16.8	<10	<2
073867	Soil	0.38	7.7	1.0	<0.05	0.2	1.71	32.6	<0.02	3	<0.1	12.5	<10	<2
REP 073867	QC	0.37	8.1	0.6	<0.05	0.2	1.77	34.0	<0.02	<1	0.5	13.2	<10	<2
071635	Soil	0.09	6.8	0.7	<0.05	1.2	1.95	40.6	<0.02	<1	0.5	31.5	<10	<2
REP 071635	QC	0.13	6.7	1.1	<0.05	1.2	2.00	41.5	<0.02	<1	0.4	32.9	<10	<2
Reference Materials														
STD DS10	Standard	1.62	28.6	1.7	<0.05	2.5	8.11	37.5	0.26	49	0.7	19.9	114	192
STD DS10	Standard	1.44	27.5	1.5	<0.05	2.2	7.71	34.8	0.23	53	0.6	19.8	105	173
STD DS10	Standard	1.66	28.5	1.8	<0.05	2.5	8.10	37.4	0.28	56	0.7	20.3	97	199
STD DS10	Standard	1.71	29.6	1.4	<0.05	2.6	8.85	39.2	0.26	48	0.6	21.3	105	180
STD DS10	Standard	1.58	28.0	1.7	<0.05	2.4	7.82	37.2	0.25	54	0.9	19.6	92	200
STD DS10	Standard	1.85	28.9	1.7	<0.05	2.7	8.39	40.8	0.24	58	1.0	20.4	107	188
STD DS10	Standard	2.04	29.5	1.7	<0.05	2.7	8.71	42.0	0.25	40	0.2	19.3	108	194
STD DS10	Standard	1.34	28.5	1.6	<0.05	2.4	7.79	35.4	0.24	51	0.9	18.8	114	183
STD DS10	Standard	1.99	28.6	1.6	<0.05	2.8	8.46	39.0	0.26	45	0.8	19.5	103	181



Bureau Veritas Commodities Canada Ltd.

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**Client:** Golden Predator Mining Corp.  
510 - 580 Hornby Street  
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**Project:** None Given  
**Report Date:** September 23, 2016

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# QUALITY CONTROL REPORT

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		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
STD OXC129	Standard	1.28	27.08	6.53	38.1	14	79.1	20.8	417	3.06	0.6	0.7	197.1	1.9	185.5	0.04	0.05	<0.02	50	0.72	0.101
STD OXC129	Standard	1.35	29.37	6.63	40.8	23	85.2	21.8	424	3.06	0.8	0.7	198.5	1.9	192.3	0.03	0.04	<0.02	51	0.73	0.100
STD OXC129	Standard	1.35	28.91	6.34	40.0	10	84.5	20.6	415	3.06	1.3	0.7	204.9	1.9	186.2	0.04	0.05	<0.02	48	0.69	0.101
STD OXC129	Standard	1.31	26.81	6.41	40.2	13	79.4	19.3	459	3.00	0.8	0.7	197.5	1.8	194.7	0.05	0.04	<0.02	49	0.67	0.099
STD OXC129	Standard	1.27	27.59	6.63	39.4	14	75.9	19.5	437	2.99	1.2	0.7	215.0	1.9	199.0	0.03	0.05	<0.02	48	0.65	0.099
STD OXC129	Standard	1.33	28.92	6.74	43.8	17	81.9	20.4	396	3.06	0.7	0.7	194.9	2.0	190.7	<0.01	0.03	<0.02	50	0.73	0.105
STD OXC129	Standard	1.43	28.93	7.02	45.1	21	79.8	20.3	426	3.15	1.0	0.7	197.8	2.0	201.1	<0.01	0.03	<0.02	52	0.70	0.102
STD OXC129	Standard	1.23	27.79	6.31	39.9	14	77.6	20.0	423	2.97	0.9	0.7	188.8	1.8	189.1	0.03	0.05	<0.02	48	0.61	0.096
STD OXC129	Standard	1.27	26.85	6.45	39.6	10	77.2	20.2	399	3.01	0.9	0.7	188.8	1.9	193.1	<0.01	0.04	<0.02	50	0.79	0.099
STD DS10 Expected		15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	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	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665	0.102
BLK	Blank	<0.01	<0.01	<0.01	<0.1	3	<0.1	<0.1	<1	<0.01	0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	3	<0.1	<0.1	<1	<0.01	0.3	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.02	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.4	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	0.1	4	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	3	<0.1	<0.1	1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



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Project: None Given  
Report Date: September 23, 2016

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# QUALITY CONTROL REPORT

WHI16000273.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
STD OXC129	Standard	12.7	52.7	1.55	51.8	0.412	<1	1.61	0.617	0.39	<0.1	1.1	0.04	<0.02	<5	<0.1	<0.02	5.3	0.17	<0.1	0.25
STD OXC129	Standard	12.4	54.6	1.56	48.0	0.427	<1	1.66	0.614	0.37	<0.1	0.9	0.03	<0.02	<5	<0.1	<0.02	5.9	0.17	<0.1	0.22
STD OXC129	Standard	12.7	55.9	1.50	47.0	0.426	<1	1.55	0.575	0.35	<0.1	0.9	0.03	<0.02	<5	<0.1	<0.02	5.4	0.16	0.1	0.26
STD OXC129	Standard	12.4	49.5	1.52	46.6	0.398	<1	1.54	0.578	0.36	<0.1	0.9	0.03	<0.02	<5	<0.1	<0.02	5.6	0.17	<0.1	0.28
STD OXC129	Standard	12.3	51.5	1.50	49.5	0.391	<1	1.50	0.575	0.36	<0.1	0.9	0.03	<0.02	<5	<0.1	0.02	5.0	0.16	<0.1	0.25
STD OXC129	Standard	12.8	54.4	1.54	51.7	0.417	<1	1.64	0.614	0.39	<0.1	1.2	0.03	<0.02	<5	<0.1	<0.02	5.3	0.16	<0.1	0.37
STD OXC129	Standard	13.8	57.3	1.58	52.2	0.421	2	1.75	0.575	0.39	<0.1	1.6	0.04	<0.02	<5	<0.1	<0.02	5.7	0.18	0.1	0.29
STD OXC129	Standard	12.4	50.2	1.51	49.1	0.385	<1	1.50	0.577	0.37	0.1	0.9	0.03	<0.02	<5	0.3	<0.02	5.3	0.15	0.1	0.28
STD OXC129	Standard	12.4	53.9	1.53	49.1	0.391	1	1.68	0.615	0.37	<0.1	1.3	0.03	<0.02	9	<0.1	<0.02	5.7	0.16	<0.1	0.25
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0259	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	2.63	0.08	0.06
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6	0.16		0.24
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	7	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	6	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



# QUALITY CONTROL REPORT

WHI16000273.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
STD OXC129	Standard	1.43	16.0	0.7	<0.05	21.0	4.66	22.9	<0.02	<1	0.8	2.4	<10	<2
STD OXC129	Standard	1.91	16.6	0.7	<0.05	22.0	4.82	23.1	<0.02	<1	0.9	2.1	<10	<2
STD OXC129	Standard	1.80	15.3	0.8	<0.05	22.2	4.71	22.4	<0.02	<1	0.8	2.3	<10	<2
STD OXC129	Standard	1.56	16.0	0.7	<0.05	22.3	4.52	23.6	<0.02	<1	0.9	2.1	<10	<2
STD OXC129	Standard	1.58	15.5	0.6	<0.05	20.4	4.69	22.8	<0.02	<1	1.1	2.4	<10	<2
STD OXC129	Standard	1.67	16.1	0.8	<0.05	23.7	4.70	24.5	<0.02	<1	0.9	2.0	15	<2
STD OXC129	Standard	1.41	17.0	0.7	<0.05	22.8	5.24	25.2	<0.02	<1	0.8	2.5	<10	<2
STD OXC129	Standard	1.49	15.5	0.7	<0.05	21.4	4.38	22.0	<0.02	<1	0.9	2.0	<10	<2
STD OXC129	Standard	1.63	15.6	0.6	<0.05	20.4	4.76	23.2	<0.02	<1	0.8	2.3	11	<2
STD DS10 Expected		1.62	27.7	1.6		2.7	7.77	37	0.23	50	0.63	19.4	110	191
STD OXC129 Expected		1.4		0.7		21	4.7	23.7			0.8	2.22		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



**BUREAU VERITAS** MINERAL LABORATORIES  
Canada

[www.bureauveritas.com/um](http://www.bureauveritas.com/um)

Bureau Veritas Commodities Canada Ltd.  
9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada  
PHONE (604) 253-3158

**Client:** **Golden Predator Mining Corp.**  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

Submitted By: M. Burke  
Receiving Lab: Canada-Whitehorse  
Received: September 09, 2016  
Report Date: September 28, 2016  
Page: 1 of 12

# CERTIFICATE OF ANALYSIS

WHI16000274.1

## CLIENT JOB INFORMATION

Project: None Given  
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: Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6  
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
AQ251_EXT	320	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
SHP01	320	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.



Bureau Veritas Commodities Canada Ltd.

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**Client:** Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

**Project:** None Given  
**Report Date:** September 28, 2016

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**Part:** 1 of 3

# CERTIFICATE OF ANALYSIS

# WHI16000274.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
071850	Soil	0.39	13.76	22.06	62.2	34	20.4	7.6	140	3.59	10.1	0.6	1.6	8.9	29.2	0.08	0.34	0.45	14	0.32	0.022
072251	Soil	0.30	25.52	29.17	66.2	53	31.0	14.1	443	3.39	22.5	0.8	3.5	12.2	44.1	0.09	0.69	0.42	13	0.55	0.038
072252	Soil	0.20	15.07	14.66	45.5	70	20.4	8.7	360	2.50	34.3	0.8	1.6	5.4	50.4	0.09	0.31	0.27	13	0.50	0.034
072253	Soil	0.29	20.40	21.93	46.8	49	22.7	9.1	326	2.81	8.8	1.1	1.4	7.5	62.7	0.09	0.34	0.26	10	0.62	0.025
072254	Soil	0.53	20.72	34.85	89.6	53	27.5	20.1	582	3.53	53.8	3.7	3.2	4.9	68.0	0.36	0.82	0.51	15	0.77	0.045
072255	Soil	0.28	25.82	30.61	95.3	65	38.8	14.6	332	4.35	10.5	1.3	1.6	12.0	39.5	0.06	0.30	0.59	14	0.32	0.039
072256	Soil	0.39	8.71	13.02	47.1	51	10.7	5.0	136	2.32	6.4	0.5	1.2	6.5	7.0	0.10	0.78	0.26	15	0.05	0.024
072257	Soil	0.50	38.49	31.84	76.2	79	43.3	16.6	357	4.12	38.2	1.1	5.2	10.6	16.2	0.03	0.76	0.52	12	0.10	0.042
072258	Soil	0.40	40.57	30.87	82.9	53	41.2	15.0	371	4.06	35.6	1.0	13.0	11.9	19.8	0.04	0.75	0.55	10	0.13	0.038
072259	Soil	0.44	14.43	22.11	64.6	61	18.7	9.0	205	3.20	21.1	1.0	1.1	5.8	18.5	0.17	0.47	0.38	18	0.10	0.030
072260	Soil	0.50	33.22	30.27	76.9	44	40.4	15.1	352	4.10	38.8	0.9	3.5	10.1	16.9	0.07	0.72	0.43	14	0.11	0.034
071761	Soil	0.48	33.70	36.46	104.9	103	34.4	15.7	568	3.76	124.7	1.2	14.9	11.3	12.3	0.27	0.78	0.67	13	0.06	0.033
071762	Soil	0.56	34.63	36.74	141.6	52	68.0	19.4	759	4.04	133.0	1.3	9.1	9.8	19.1	0.17	0.67	0.68	17	0.12	0.035
071763	Soil	0.55	30.98	32.20	130.3	45	60.0	18.1	646	3.87	123.9	1.1	6.4	9.0	18.4	0.21	0.63	0.64	16	0.12	0.036
071764	Soil	0.69	49.89	35.01	110.5	140	50.0	23.0	632	4.63	163.4	1.3	32.4	9.7	12.5	0.15	1.01	0.90	16	0.05	0.039
071765	Soil	0.68	16.37	22.84	58.7	14	18.7	10.2	214	3.60	38.6	0.6	0.8	7.7	10.0	0.06	0.51	0.41	24	0.07	0.029
071766	Soil	0.44	9.94	16.06	76.8	42	19.9	9.1	227	2.88	12.1	0.6	1.6	7.7	13.8	0.03	0.23	0.30	23	0.11	0.012
071767	Soil	0.51	19.88	32.05	44.0	46	19.4	13.2	405	3.35	36.9	0.9	2.1	5.7	32.3	0.10	0.70	0.38	19	0.40	0.037
071768	Soil	0.21	30.48	20.19	57.4	67	32.7	11.8	331	3.28	21.0	0.8	3.4	10.5	38.8	0.02	0.49	0.35	15	0.40	0.029
071769	Soil	0.65	9.30	12.57	47.4	15	11.7	6.4	271	2.54	26.6	1.1	0.9	5.6	32.9	0.08	0.37	0.34	24	0.50	0.019
071770	Soil	0.40	47.42	27.87	90.4	159	48.6	15.9	252	4.18	11.0	1.9	2.2	9.8	48.9	0.08	0.27	0.60	13	0.45	0.058
071531	Soil	0.57	40.62	36.97	109.7	110	42.3	17.0	490	3.68	25.9	2.5	4.1	9.3	32.0	0.29	0.57	0.50	13	0.53	0.049
071532	Soil	0.35	31.61	40.50	98.8	98	35.9	14.7	360	3.57	87.4	2.1	9.2	9.9	41.4	0.27	0.53	0.57	13	0.60	0.033
071533	Soil	0.38	34.57	36.44	100.2	107	36.9	14.0	429	3.56	132.0	1.6	15.5	9.2	30.5	0.32	0.69	0.56	13	0.47	0.041
071534	Soil	0.39	36.01	37.32	104.1	110	39.0	15.9	550	3.62	140.8	2.0	43.7	8.6	33.4	0.31	0.60	0.57	14	0.52	0.045
071535	Soil	0.40	33.19	32.68	85.9	122	39.2	14.2	415	3.36	65.1	2.6	6.9	6.7	47.9	0.30	0.50	0.46	14	0.79	0.048
071536	Soil	0.49	28.54	38.80	116.9	159	38.4	17.9	787	3.07	144.8	1.4	15.3	7.2	41.5	1.16	0.72	0.63	12	0.56	0.037
071537	Soil	0.45	32.52	35.59	98.7	141	36.6	15.7	480	3.69	104.5	1.3	8.6	8.7	12.4	0.45	0.82	0.57	14	0.07	0.037
071538	Soil	0.41	28.65	34.52	87.2	40	29.0	11.8	350	3.33	104.8	0.9	11.0	10.7	8.1	0.18	0.79	0.49	11	0.04	0.037
071539	Soil	0.45	25.87	36.75	84.7	92	25.8	10.6	301	3.20	141.1	0.9	27.5	8.5	8.1	0.23	0.84	0.54	12	0.02	0.034



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**Project:** None Given  
**Report Date:** September 28, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
071850	Soil	33.1	17.9	0.42	40.0	0.002	<1	1.40	0.003	0.05	<0.1	1.6	0.07	<0.02	16	<0.1	0.03	4.5	0.66	<0.1	0.03
072251	Soil	33.9	20.1	0.50	66.4	0.006	<1	1.49	0.006	0.10	<0.1	2.7	0.06	<0.02	25	0.1	0.05	4.0	0.89	<0.1	0.04
072252	Soil	24.0	16.8	0.39	78.2	0.006	1	1.36	0.009	0.07	0.2	1.6	0.06	0.02	16	<0.1	0.03	4.0	0.85	<0.1	0.03
072253	Soil	23.7	15.3	0.30	64.5	0.004	<1	1.25	0.015	0.07	<0.1	2.3	0.05	0.02	20	<0.1	0.03	3.3	0.64	<0.1	0.04
072254	Soil	21.1	20.0	0.45	45.1	0.005	<1	1.36	0.006	0.05	<0.1	1.8	0.06	0.04	22	0.1	0.06	4.1	2.14	<0.1	0.03
072255	Soil	38.6	27.9	0.77	40.5	0.004	1	1.90	0.004	0.05	<0.1	4.0	0.04	<0.02	29	<0.1	0.02	5.1	0.80	<0.1	0.07
072256	Soil	27.4	9.4	0.15	40.7	0.004	<1	0.98	0.005	0.04	<0.1	1.0	0.06	<0.02	8	<0.1	0.03	3.4	0.70	<0.1	<0.02
072257	Soil	31.5	22.9	0.52	53.4	0.003	<1	1.79	0.004	0.05	<0.1	2.3	0.07	<0.02	24	<0.1	0.07	4.1	1.59	<0.1	0.03
072258	Soil	33.5	22.8	0.56	59.3	0.004	1	1.77	0.004	0.06	<0.1	2.7	0.07	<0.02	24	<0.1	0.06	4.7	1.44	<0.1	0.06
072259	Soil	25.8	18.0	0.33	41.2	0.003	<1	1.43	0.004	0.04	<0.1	1.4	0.07	<0.02	8	0.2	0.05	4.8	0.99	<0.1	<0.02
072260	Soil	32.6	24.8	0.53	33.0	0.003	<1	1.70	0.003	0.04	0.1	1.9	0.05	<0.02	11	<0.1	0.04	4.3	0.81	<0.1	0.03
071761	Soil	35.2	22.7	0.44	44.3	0.003	<1	1.32	0.005	0.09	0.2	1.7	0.06	<0.02	21	0.1	0.04	3.8	1.24	<0.1	<0.02
071762	Soil	22.2	24.1	0.44	78.2	0.002	<1	1.65	0.007	0.11	0.2	2.3	0.09	<0.02	27	0.2	0.04	4.4	1.86	<0.1	<0.02
071763	Soil	21.9	23.7	0.44	76.6	0.002	<1	1.57	0.008	0.11	0.2	1.9	0.09	<0.02	19	0.1	0.04	4.5	1.82	<0.1	<0.02
071764	Soil	25.1	21.9	0.35	32.7	0.003	<1	1.03	0.004	0.06	0.2	2.1	0.07	0.02	23	0.2	0.07	3.4	1.46	<0.1	<0.02
071765	Soil	25.3	16.2	0.28	42.7	0.011	<1	1.33	0.005	0.04	0.1	1.8	0.07	<0.02	12	<0.1	0.04	5.3	0.99	<0.1	<0.02
071766	Soil	30.3	23.7	0.51	52.4	0.018	<1	1.63	0.005	0.06	0.2	1.8	0.08	<0.02	6	<0.1	0.03	5.3	1.16	<0.1	0.04
071767	Soil	21.5	15.1	0.19	41.5	0.007	<1	1.26	0.013	0.04	0.1	1.8	0.07	0.02	22	0.2	0.04	3.8	0.89	<0.1	<0.02
071768	Soil	33.4	24.7	0.52	69.9	0.004	1	1.80	0.009	0.13	<0.1	2.9	0.06	<0.02	16	0.2	0.05	4.5	0.89	<0.1	0.07
071769	Soil	24.9	14.0	0.19	33.0	0.010	<1	0.97	0.005	0.04	0.2	1.0	0.06	<0.02	11	0.1	0.05	4.9	0.62	<0.1	<0.02
071770	Soil	42.2	26.3	0.70	35.9	0.005	<1	1.91	0.005	0.05	<0.1	4.0	0.04	0.02	60	0.2	0.05	4.9	1.85	<0.1	0.04
071531	Soil	22.1	24.2	0.58	42.7	0.002	1	1.52	0.005	0.08	0.1	2.0	0.06	0.04	28	0.5	0.07	4.5	1.51	<0.1	0.07
071532	Soil	19.9	24.3	0.57	71.3	0.002	1	1.74	0.007	0.09	0.1	2.1	0.07	0.03	31	0.4	0.08	4.5	1.46	<0.1	0.07
071533	Soil	19.2	23.9	0.57	49.5	0.002	<1	1.54	0.005	0.08	0.1	1.8	0.06	0.03	30	0.2	0.06	4.2	1.21	<0.1	0.08
071534	Soil	19.4	26.0	0.65	56.6	0.002	<1	1.72	0.006	0.09	0.1	2.0	0.06	0.03	29	0.4	0.06	4.5	1.29	<0.1	0.07
071535	Soil	15.9	25.9	0.65	59.8	0.002	1	1.72	0.007	0.08	0.1	1.9	0.08	0.06	31	0.4	0.05	4.6	1.83	<0.1	0.09
071536	Soil	16.1	18.3	0.41	63.8	0.002	1	1.27	0.007	0.07	0.2	1.5	0.10	0.04	31	0.3	0.06	3.7	2.15	<0.1	0.07
071537	Soil	23.8	21.6	0.44	66.3	0.002	<1	1.49	0.006	0.11	0.2	1.6	0.07	0.08	20	0.2	0.07	4.2	1.59	<0.1	0.03
071538	Soil	35.7	19.6	0.42	24.8	0.003	<1	1.17	0.003	0.07	0.2	1.4	0.04	<0.02	13	<0.1	0.06	3.4	0.82	<0.1	<0.02
071539	Soil	31.9	18.2	0.34	38.4	0.002	<1	1.18	0.004	0.09	0.2	1.3	0.06	<0.02	20	<0.1	0.05	3.6	1.17	<0.1	0.03



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**Project:** None Given  
**Report Date:** September 28, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
071850	Soil	0.34	7.8	0.4	<0.05	2.1	3.09	54.8	0.03	<1	0.4	60.8	<10	<2
072251	Soil	0.47	8.4	0.6	<0.05	3.1	7.28	62.0	0.03	<1	0.5	40.7	<10	<2
072252	Soil	0.48	9.3	0.4	<0.05	1.2	3.73	43.9	<0.02	<1	0.3	37.5	<10	<2
072253	Soil	0.37	6.0	0.9	<0.05	2.2	5.45	43.6	0.02	<1	0.5	30.0	<10	<2
072254	Soil	0.41	12.5	0.4	<0.05	1.4	3.37	38.9	0.03	<1	0.3	55.8	<10	<2
072255	Soil	0.18	4.4	0.3	<0.05	2.2	8.31	66.9	0.03	<1	0.5	79.3	<10	<2
072256	Soil	0.40	5.6	0.7	<0.05	0.6	2.11	50.7	0.02	<1	0.2	17.3	<10	<2
072257	Soil	0.33	6.9	1.0	<0.05	1.6	5.87	60.1	0.03	<1	0.7	49.3	<10	<2
072258	Soil	0.29	6.5	0.7	<0.05	2.1	6.79	62.6	0.04	2	0.5	50.4	<10	<2
072259	Soil	0.42	7.1	0.5	<0.05	0.8	2.70	46.4	0.02	<1	0.3	47.6	<10	<2
072260	Soil	0.19	5.6	0.3	<0.05	2.3	4.25	56.2	<0.02	<1	0.5	49.5	<10	<2
071761	Soil	0.11	7.2	0.4	<0.05	0.6	3.52	58.3	0.02	<1	0.5	30.7	<10	<2
071762	Soil	0.17	10.4	0.6	<0.05	0.9	3.47	38.6	<0.02	<1	0.6	37.7	<10	<2
071763	Soil	0.17	10.1	0.6	<0.05	0.8	2.72	38.6	<0.02	<1	0.5	35.1	<10	<2
071764	Soil	0.12	6.1	0.5	<0.05	0.5	3.57	42.4	0.02	<1	0.6	24.2	<10	<2
071765	Soil	0.93	8.6	1.1	<0.05	1.3	2.99	46.4	0.02	<1	0.3	37.7	<10	<2
071766	Soil	0.85	10.6	0.7	<0.05	2.2	3.06	53.8	<0.02	<1	0.3	37.5	<10	<2
071767	Soil	0.70	6.5	0.9	<0.05	1.4	4.83	40.8	<0.02	<1	0.4	22.9	<10	<2
071768	Soil	0.32	9.2	0.6	<0.05	3.5	7.35	57.7	0.02	<1	0.5	46.2	<10	<2
071769	Soil	0.97	9.8	0.6	<0.05	1.2	2.22	44.8	<0.02	<1	0.2	25.9	<10	<2
071770	Soil	0.31	7.3	0.3	<0.05	2.3	13.24	70.4	0.03	<1	0.7	78.7	<10	<2
071531	Soil	0.15	6.6	0.3	<0.05	2.6	4.28	36.8	<0.02	<1	0.3	40.9	<10	<2
071532	Soil	0.23	7.8	0.3	<0.05	3.3	4.22	34.5	0.03	<1	0.4	42.1	<10	<2
071533	Soil	0.16	6.5	0.3	<0.05	2.7	3.63	32.7	<0.02	<1	0.4	39.9	<10	<2
071534	Soil	0.19	6.7	0.3	<0.05	3.0	4.11	33.0	0.02	<1	0.4	44.1	<10	<2
071535	Soil	0.19	7.4	0.4	<0.05	2.8	3.97	26.8	0.02	<1	0.3	44.3	<10	<2
071536	Soil	0.22	8.8	0.4	<0.05	1.8	3.37	27.7	0.02	<1	0.4	31.0	<10	<2
071537	Soil	0.18	8.8	0.4	<0.05	1.1	3.66	41.5	0.03	<1	0.4	32.9	<10	<2
071538	Soil	0.17	5.1	0.4	<0.05	1.1	2.93	61.0	<0.02	<1	0.3	30.5	<10	<2
071539	Soil	0.15	7.4	0.3	<0.05	0.9	2.93	55.2	0.02	<1	0.3	23.7	<10	<2



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**Project:** None Given  
**Report Date:** September 28, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
071540	Soil	0.42	24.85	27.58	79.6	156	26.4	8.6	220	3.20	94.6	0.7	11.3	9.6	7.3	0.18	0.66	0.53	13	0.01	0.024
071511	Soil	0.37	17.41	19.22	71.1	81	26.8	8.7	276	3.00	158.2	0.6	11.5	7.8	12.8	0.35	0.50	0.58	13	0.03	0.021
071512	Soil	0.68	80.91	31.85	101.1	81	50.9	26.4	425	4.30	67.5	1.9	10.9	20.4	5.4	0.14	1.10	0.61	12	<0.01	0.027
071513	Soil	0.60	83.66	32.72	101.7	68	51.6	31.4	494	4.30	69.1	2.2	11.7	21.8	5.5	0.10	1.10	0.61	12	<0.01	0.030
071514	Soil	0.30	24.99	18.29	69.3	54	31.3	11.8	1004	2.99	18.2	1.0	2.6	7.1	86.2	0.08	0.53	0.30	13	1.18	0.054
071515	Soil	0.36	35.10	23.64	74.8	101	36.1	14.6	503	3.47	33.6	3.9	4.8	7.0	64.0	0.06	0.51	0.37	13	0.85	0.051
071516	Soil	0.29	24.79	19.05	64.3	84	29.3	10.4	402	2.98	27.9	2.8	8.9	5.4	57.3	0.11	0.46	0.38	12	0.79	0.042
071517	Soil	0.35	22.25	19.58	78.7	57	32.0	10.7	273	3.36	29.6	1.7	8.4	8.0	39.2	0.09	0.46	0.34	13	0.49	0.039
071518	Soil	0.31	17.83	17.98	82.8	77	27.1	9.3	522	3.17	27.5	1.7	7.7	7.0	42.5	0.12	0.34	0.32	12	0.58	0.050
071519	Soil	0.40	15.69	18.08	66.5	22	23.6	7.4	227	3.73	38.1	0.6	1.8	9.2	3.9	0.08	0.49	0.40	16	0.02	0.020
071520	Soil	0.28	24.45	23.19	82.3	29	36.7	15.2	409	3.76	32.6	1.3	20.7	10.7	20.1	0.07	0.56	0.35	13	0.19	0.041
072281	Soil	0.25	22.70	18.89	62.3	49	23.0	9.5	433	2.49	16.5	1.2	3.3	5.0	79.8	0.07	0.58	0.27	11	1.15	0.029
072282	Soil	0.31	18.49	25.94	61.5	66	23.2	13.1	690	2.85	18.6	1.2	5.6	7.3	73.4	0.07	0.50	0.33	12	0.99	0.046
072283	Soil	0.27	24.35	25.23	59.2	70	26.7	12.3	444	2.77	20.1	1.3	3.8	8.7	50.0	0.07	0.54	0.33	11	0.62	0.047
072284	Soil	0.29	16.90	17.59	56.3	43	24.2	9.1	340	2.72	26.4	1.6	4.0	5.5	37.7	0.05	0.36	0.25	10	0.49	0.046
072285	Soil	0.44	18.89	30.94	68.7	39	26.4	11.5	353	3.52	11.5	0.7	1.3	9.0	26.3	0.08	0.48	0.39	13	0.22	0.034
072286	Soil	0.50	12.73	23.91	56.2	34	16.1	9.0	349	2.97	31.1	0.8	2.6	6.3	22.6	0.07	0.46	0.38	17	0.14	0.034
072287	Soil	0.30	28.73	20.38	42.5	192	20.2	8.9	540	2.05	12.4	1.3	3.0	3.0	79.0	0.18	0.40	0.27	13	0.92	0.041
072288	Soil	0.33	27.35	24.78	73.9	40	30.6	12.8	357	3.44	22.5	0.7	4.4	11.3	26.1	0.11	0.64	0.35	14	0.22	0.044
072289	Soil	0.49	28.55	34.73	83.5	23	31.2	15.5	401	4.34	50.1	0.8	7.2	9.3	16.6	0.11	0.80	0.47	13	0.17	0.040
072290	Soil	0.25	20.27	18.73	59.5	25	28.3	10.3	260	3.13	17.7	0.7	1.7	11.0	31.3	0.05	0.51	0.29	13	0.36	0.016
071801	Soil	0.34	37.28	33.83	79.8	70	42.1	13.6	330	3.89	24.3	0.8	1.8	12.4	11.0	0.02	1.91	0.54	13	0.05	0.027
071802	Soil	0.42	25.84	21.67	45.0	92	30.1	13.8	443	3.82	10.2	2.1	3.5	6.6	80.4	0.15	0.67	0.45	13	0.83	0.058
071803	Soil	0.48	27.51	27.62	70.9	115	37.4	13.2	663	3.49	42.9	1.3	5.7	8.6	43.7	0.08	0.62	0.44	15	0.34	0.037
071804	Soil	0.28	22.29	19.08	65.7	66	31.9	10.5	256	3.59	31.8	0.7	2.4	9.5	14.4	0.02	0.46	0.34	16	0.07	0.014
071805	Soil	0.38	34.81	43.74	91.0	113	40.2	15.2	947	4.27	7.5	1.0	1.4	13.1	250.5	0.04	0.41	0.48	10	4.09	0.082
071806	Soil	0.44	45.42	55.71	94.1	28	47.2	17.9	554	4.70	13.6	1.0	2.7	16.5	11.6	0.03	0.55	0.57	9	0.05	0.033
071807	Soil	0.28	19.29	29.68	65.8	192	32.6	10.7	1767	4.88	8.8	1.2	2.1	11.5	72.7	0.06	0.21	0.43	14	0.81	0.229
071808	Soil	0.33	19.22	21.48	103.4	47	34.7	11.1	376	3.78	31.3	1.1	3.0	9.3	23.1	0.08	0.46	0.37	18	0.20	0.021
071809	Soil	0.12	26.47	23.34	97.4	114	35.9	9.1	102	3.09	13.1	1.4	4.7	11.0	23.0	0.15	0.15	0.32	13	0.22	0.053



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**Project:** None Given  
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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
071540	Soil	32.5	19.5	0.39	39.8	0.003	<1	1.33	0.005	0.10	0.2	1.5	0.07	<0.02	18	0.1	0.05	4.2	1.22	<0.1	<0.02
071511	Soil	29.5	19.7	0.40	37.9	0.002	<1	1.21	0.005	0.06	0.2	1.2	0.08	<0.02	10	<0.1	0.05	3.9	1.77	<0.1	<0.02
071512	Soil	21.0	25.1	0.44	39.3	0.003	<1	1.64	0.003	0.06	0.1	2.6	0.07	<0.02	25	0.2	0.07	3.6	1.57	<0.1	0.17
071513	Soil	23.1	24.0	0.43	38.1	0.002	<1	1.50	0.004	0.06	0.1	2.7	0.07	<0.02	22	<0.1	0.08	3.5	1.44	<0.1	0.02
071514	Soil	22.8	22.9	0.49	84.7	0.004	2	1.71	0.014	0.15	<0.1	2.1	0.07	0.05	21	0.6	0.02	4.3	1.01	<0.1	0.06
071515	Soil	19.7	25.6	0.60	59.4	0.003	<1	1.77	0.009	0.06	<0.1	2.0	0.04	0.04	25	0.4	0.05	4.5	1.02	<0.1	0.06
071516	Soil	13.6	19.2	0.53	47.4	0.002	2	1.48	0.009	0.05	<0.1	1.7	0.04	0.03	21	0.5	0.03	4.2	0.74	<0.1	0.05
071517	Soil	18.0	21.0	0.60	36.4	0.002	2	1.62	0.006	0.05	0.1	2.0	0.04	0.02	19	0.4	0.02	4.8	0.64	<0.1	0.06
071518	Soil	17.2	20.0	0.53	43.1	0.002	2	1.49	0.008	0.05	0.1	1.9	0.04	0.03	15	0.4	0.04	3.8	0.67	<0.1	0.04
071519	Soil	30.3	19.4	0.53	32.4	0.001	2	1.57	0.003	0.05	<0.1	1.2	0.04	<0.02	7	0.1	0.04	5.2	0.53	<0.1	0.04
071520	Soil	23.9	24.8	0.75	19.9	0.002	1	1.74	0.003	0.04	<0.1	2.0	0.02	<0.02	8	0.1	0.05	4.7	0.70	<0.1	0.06
072281	Soil	16.7	14.6	0.35	59.2	0.003	3	1.25	0.014	0.10	<0.1	1.7	0.05	0.04	24	0.3	0.02	3.3	0.65	<0.1	0.05
072282	Soil	19.1	17.4	0.40	65.1	0.002	4	1.36	0.009	0.10	<0.1	2.0	0.05	0.04	23	0.3	<0.02	3.6	0.71	<0.1	0.06
072283	Soil	21.9	16.6	0.41	46.1	0.003	3	1.27	0.007	0.08	<0.1	2.3	0.05	0.02	22	0.2	0.02	3.6	0.61	<0.1	0.05
072284	Soil	14.3	17.3	0.49	28.8	0.003	<1	1.29	0.015	0.04	<0.1	1.6	0.02	0.02	17	<0.1	0.04	3.7	0.58	<0.1	0.05
072285	Soil	29.3	15.1	0.40	42.5	0.003	<1	1.34	0.005	0.04	<0.1	2.8	0.06	0.02	35	0.3	0.02	3.9	0.92	<0.1	0.03
072286	Soil	23.8	13.6	0.23	41.9	0.003	<1	1.14	0.004	0.04	<0.1	1.4	0.08	<0.02	10	0.1	0.04	4.1	1.17	<0.1	<0.02
072287	Soil	15.9	11.5	0.21	94.2	0.005	1	1.37	0.019	0.09	<0.1	1.6	0.06	0.03	33	0.2	0.03	4.0	0.90	<0.1	<0.02
072288	Soil	32.9	20.7	0.50	63.0	0.003	1	1.71	0.007	0.13	<0.1	3.0	0.06	<0.02	12	0.3	0.03	4.7	0.89	<0.1	0.07
072289	Soil	25.0	21.5	0.55	26.7	0.003	1	1.58	0.004	0.04	<0.1	1.7	0.03	<0.02	15	0.2	0.05	4.2	0.72	<0.1	0.05
072290	Soil	31.7	19.7	0.45	65.0	0.002	1	1.71	0.005	0.12	<0.1	2.4	0.07	<0.02	19	0.2	0.02	4.3	0.80	<0.1	0.06
071801	Soil	33.6	19.8	0.42	71.8	0.003	2	1.77	0.008	0.13	<0.1	2.9	0.04	<0.02	29	0.2	0.02	4.1	1.21	<0.1	0.02
071802	Soil	21.6	17.1	0.35	46.0	0.002	1	1.19	0.007	0.04	<0.1	2.3	0.05	0.03	32	0.4	0.04	4.1	0.96	<0.1	0.03
071803	Soil	29.3	23.2	0.50	69.0	0.004	<1	1.68	0.008	0.07	0.1	3.5	0.06	<0.02	25	0.3	0.03	4.3	1.33	<0.1	0.03
071804	Soil	35.3	25.0	0.58	65.6	0.002	<1	2.04	0.006	0.08	<0.1	1.9	0.06	<0.02	9	0.1	0.03	4.9	1.02	0.1	<0.02
071805	Soil	36.4	19.0	0.48	38.4	0.002	1	1.46	0.005	0.05	<0.1	7.3	0.04	0.03	53	0.3	0.04	3.5	0.71	0.1	0.04
071806	Soil	48.4	14.2	0.13	39.6	0.002	<1	0.86	0.005	0.06	<0.1	4.0	0.05	<0.02	55	0.5	0.04	1.8	0.80	<0.1	0.04
071807	Soil	53.4	25.6	0.43	50.2	0.002	<1	1.90	0.005	0.02	<0.1	7.5	0.04	0.03	56	0.4	0.05	3.3	0.65	<0.1	0.03
071808	Soil	30.9	26.8	0.65	69.2	0.004	1	1.98	0.007	0.09	<0.1	2.2	0.05	<0.02	22	0.2	0.05	5.2	1.03	<0.1	0.03
071809	Soil	24.5	25.4	0.66	58.7	0.002	1	1.72	0.006	0.05	<0.1	3.7	0.03	0.03	58	0.5	0.02	4.7	1.15	<0.1	0.07



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**Project:** None Given  
**Report Date:** September 28, 2016

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# CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
071540	Soil	0.16	9.0	0.3	<0.05	1.0	2.44	55.5	<0.02	<1	0.2	27.9	<10	<2
071511	Soil	0.14	9.0	0.4	<0.05	0.8	2.15	50.2	<0.02	<1	0.2	31.4	<10	<2
071512	Soil	0.10	6.4	0.4	<0.05	2.0	1.73	35.8	0.02	<1	0.8	38.1	<10	<2
071513	Soil	0.07	6.0	0.3	<0.05	1.5	1.98	38.1	<0.02	<1	0.8	35.7	<10	<2
071514	Soil	0.34	10.0	0.4	<0.05	2.7	4.75	39.9	<0.02	<1	0.4	43.3	<10	<2
071515	Soil	0.27	5.4	0.2	<0.05	3.1	5.14	35.4	<0.02	<1	0.4	46.7	<10	<2
071516	Soil	0.20	4.5	0.2	<0.05	2.4	4.08	25.4	0.02	<1	0.1	42.0	<10	<2
071517	Soil	0.19	4.4	0.4	<0.05	2.5	4.52	34.8	0.03	<1	0.2	49.0	<10	<2
071518	Soil	0.33	5.0	0.8	<0.05	2.1	4.72	32.5	<0.02	<1	0.5	42.7	<10	<2
071519	Soil	0.14	4.5	0.3	<0.05	2.6	1.83	55.7	<0.02	<1	0.2	37.4	<10	<2
071520	Soil	0.06	3.0	0.2	<0.05	3.7	4.17	46.6	<0.02	<1	0.4	56.1	<10	<2
072281	Soil	0.24	6.2	0.8	<0.05	2.2	4.70	32.0	<0.02	<1	0.5	30.7	<10	<2
072282	Soil	0.27	7.7	0.6	<0.05	2.8	4.38	37.5	<0.02	<1	0.4	35.4	<10	<2
072283	Soil	0.21	5.3	0.3	<0.05	3.0	5.89	41.8	<0.02	<1	0.5	36.7	<10	<2
072284	Soil	0.18	3.3	0.2	<0.05	1.8	3.61	27.5	<0.02	<1	0.2	37.2	<10	<2
072285	Soil	0.33	5.0	0.4	<0.05	2.2	7.50	58.2	0.04	<1	0.5	49.2	<10	<2
072286	Soil	0.48	9.3	0.7	<0.05	0.7	3.85	47.2	<0.02	<1	0.6	25.9	<10	<2
072287	Soil	0.56	9.1	0.6	<0.05	1.6	6.22	29.5	0.02	<1	0.7	19.5	<10	<2
072288	Soil	0.27	7.2	0.5	<0.05	3.2	6.02	61.2	0.02	<1	0.7	45.9	<10	<2
072289	Soil	0.27	3.8	0.4	<0.05	2.9	2.97	47.5	0.03	<1	0.3	46.7	<10	<2
072290	Soil	0.19	9.2	0.5	<0.05	4.0	5.30	57.4	<0.02	<1	0.8	45.0	<10	<2
071801	Soil	0.20	9.2	0.4	<0.05	1.4	4.71	65.3	0.03	<1	0.6	47.9	<10	<2
071802	Soil	0.19	5.5	0.5	<0.05	1.1	5.27	42.2	0.02	<1	0.6	41.0	<10	<2
071803	Soil	0.29	8.0	1.5	<0.05	1.3	11.15	53.3	0.02	<1	0.5	53.8	<10	<2
071804	Soil	0.16	7.4	0.4	<0.05	2.3	2.73	65.2	0.02	<1	0.5	50.3	<10	<2
071805	Soil	0.08	3.7	0.3	<0.05	2.5	16.51	70.7	0.04	<1	0.8	49.4	<10	<2
071806	Soil	0.04	5.3	0.2	<0.05	3.1	6.84	94.2	0.04	<1	0.8	13.1	<10	<2
071807	Soil	0.11	3.8	0.3	<0.05	2.6	43.32	94.0	0.06	<1	2.0	54.0	<10	<2
071808	Soil	0.26	8.5	0.8	<0.05	2.0	3.77	58.1	0.03	<1	0.4	76.2	<10	<2
071809	Soil	0.17	5.2	0.4	<0.05	3.3	10.57	43.9	0.03	<1	0.7	73.6	<10	<2



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**Project:** None Given  
**Report Date:** September 28, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
071810	Soil	0.32	32.49	24.88	80.7	43	39.5	14.9	482	3.85	39.0	1.1	2.9	10.9	27.0	0.06	0.50	0.43	16	0.20	0.019
071921	Soil	0.25	23.56	16.99	52.9	97	21.5	10.6	435	2.34	16.0	1.3	3.3	3.8	63.0	0.14	0.43	0.26	11	0.86	0.063
071922	Soil	0.58	32.42	33.25	67.4	89	36.1	12.4	1649	3.90	41.3	0.9	27.2	9.6	46.1	0.13	1.30	0.35	15	0.49	0.042
071923	Soil	0.25	30.15	22.15	59.9	67	28.4	10.5	351	2.99	20.2	1.0	3.2	8.3	58.3	0.05	0.56	0.32	12	0.75	0.050
071924	Soil	0.24	28.48	20.74	59.8	74	27.8	11.4	410	2.83	19.8	1.0	3.2	6.3	78.4	0.08	0.57	0.31	11	1.07	0.047
071925	Soil	0.25	28.34	20.82	60.6	75	28.2	10.9	401	2.88	19.4	1.0	1.9	6.2	82.6	0.09	0.57	0.32	11	1.15	0.046
071926	Soil	0.16	19.22	16.61	39.5	16	20.0	7.4	280	2.23	12.8	0.7	2.4	10.8	13.9	0.01	0.21	0.23	18	0.05	0.010
071927	Soil	0.47	17.73	28.62	58.5	46	25.9	12.9	958	3.68	34.6	1.7	1.9	8.0	27.0	0.17	0.44	0.27	12	0.31	0.038
071928	Soil	0.65	14.23	17.24	32.8	61	9.5	5.6	115	2.13	24.4	0.6	0.8	4.4	10.1	0.15	0.48	0.30	19	0.07	0.029
071929	Soil	0.15	19.78	14.43	45.1	30	19.4	8.3	367	2.20	13.4	0.6	1.9	9.4	15.1	0.03	0.23	0.19	13	0.14	0.033
071930	Soil	0.91	17.45	58.79	50.5	452	20.9	13.9	702	6.96	37.0	1.4	2.4	12.3	12.6	0.11	0.46	0.43	18	0.11	0.132
071931	Soil	0.28	33.52	22.36	63.3	91	31.9	13.5	551	3.13	28.1	0.7	4.2	12.2	26.5	0.03	0.55	0.33	17	0.26	0.046
071932	Soil	0.60	15.16	21.69	61.1	14	26.8	11.7	308	3.38	25.6	0.8	0.9	10.3	9.7	0.04	0.51	0.44	24	0.07	0.019
071933	Soil	0.25	26.15	22.06	60.5	35	28.7	11.8	364	2.84	16.9	0.6	0.9	12.0	69.6	0.02	0.46	0.34	13	1.17	0.040
071934	Soil	0.26	19.00	19.18	79.0	59	31.7	11.0	231	3.16	18.8	1.5	3.6	8.9	37.5	0.05	0.38	0.33	11	0.46	0.046
071935	Soil	0.31	28.93	23.14	65.4	73	28.6	12.0	351	3.07	30.6	2.5	3.1	6.2	49.7	0.10	0.67	0.36	12	0.68	0.028
071936	Soil	0.32	21.84	31.64	50.5	120	29.3	9.7	255	2.97	14.1	1.0	1.1	10.2	311.4	0.03	0.28	0.42	5	6.98	0.027
071937	Soil	0.26	17.43	18.35	51.8	73	21.7	10.8	351	2.63	19.8	1.0	3.4	4.6	65.1	0.13	0.31	0.34	13	1.01	0.049
071938	Soil	0.25	21.76	29.47	67.2	50	31.5	10.9	299	3.41	44.8	1.4	1.4	9.6	32.0	0.04	0.48	0.63	14	0.32	0.035
071939	Soil	0.25	24.93	23.14	64.6	94	29.7	12.3	447	3.08	15.3	0.6	2.0	12.1	64.2	0.04	0.54	0.56	14	0.93	0.048
071940	Soil	0.24	15.32	17.81	54.9	61	21.6	9.5	309	2.81	15.6	0.8	1.3	7.8	31.6	0.03	0.33	0.32	14	0.33	0.024
071941	Soil	0.59	24.32	30.80	73.3	35	29.9	14.7	419	3.56	84.1	0.9	12.3	7.9	27.8	0.07	0.69	0.57	14	0.27	0.036
071942	Soil	0.56	12.91	25.33	60.2	58	18.4	12.2	836	3.29	32.1	0.9	1.9	5.9	40.9	0.10	0.44	0.36	15	0.43	0.036
071943	Soil	0.39	36.10	28.15	67.5	101	31.5	15.5	639	3.17	45.3	5.3	4.9	3.9	90.0	0.18	0.51	0.43	12	1.24	0.049
071944	Soil	0.57	24.56	37.77	91.3	41	31.1	14.6	404	4.17	33.1	1.2	2.2	10.6	12.1	0.08	1.77	0.56	16	0.06	0.031
071945	Soil	0.38	31.08	25.16	74.3	89	32.1	13.6	418	3.42	30.3	1.1	5.2	7.9	39.4	0.04	0.50	0.37	13	0.36	0.052
071946	Soil	0.44	39.74	34.10	94.6	85	44.6	22.7	779	4.15	34.9	1.0	4.0	14.4	35.4	0.09	0.79	0.45	15	0.34	0.050
071947	Soil	0.36	41.57	27.26	85.7	62	40.3	14.6	420	4.09	35.2	1.0	6.0	12.5	20.5	0.05	0.68	0.45	14	0.19	0.043
071948	Soil	0.41	40.13	29.07	87.5	96	38.4	14.8	424	3.86	42.6	1.2	5.9	11.4	34.9	0.07	0.77	0.40	13	0.43	0.047
071949	Soil	0.45	44.30	30.46	88.6	92	39.6	15.3	379	3.87	41.3	1.2	5.8	10.2	36.8	0.08	0.79	0.43	12	0.52	0.048



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**Project:** None Given  
**Report Date:** September 28, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
071810	Soil	38.2	27.8	0.65	104.4	0.003	1	2.15	0.018	0.12	<0.1	2.3	0.06	<0.02	7	0.2	0.05	5.9	1.12	<0.1	0.05
071921	Soil	16.9	16.5	0.35	42.9	0.008	2	1.29	0.020	0.08	<0.1	2.1	0.05	0.04	34	0.6	<0.02	2.9	0.72	<0.1	0.03
071922	Soil	30.4	20.8	0.44	94.4	0.004	1	1.59	0.007	0.16	<0.1	3.4	0.07	<0.02	31	0.2	0.06	4.2	0.85	<0.1	0.03
071923	Soil	24.0	18.1	0.44	73.4	0.004	2	1.53	0.009	0.12	<0.1	2.8	0.05	0.03	21	0.3	0.04	3.7	0.78	<0.1	0.07
071924	Soil	21.9	19.6	0.42	73.8	0.003	2	1.44	0.009	0.11	<0.1	2.6	0.06	0.04	31	0.5	0.03	3.5	0.75	<0.1	0.04
071925	Soil	20.8	19.4	0.44	74.8	0.003	3	1.45	0.007	0.11	<0.1	2.4	0.05	0.05	25	0.7	0.04	3.8	0.77	<0.1	0.05
071926	Soil	29.2	20.8	0.45	73.8	0.022	1	1.85	0.018	0.19	0.2	3.0	0.14	<0.02	7	0.2	0.03	4.7	1.03	<0.1	0.06
071927	Soil	22.1	20.4	0.39	32.8	0.004	1	1.43	0.007	0.04	0.1	2.3	0.02	0.02	12	0.4	0.05	3.4	0.55	<0.1	0.03
071928	Soil	21.3	9.2	0.07	28.8	0.011	<1	0.60	0.009	0.04	0.3	0.9	0.04	<0.02	<5	<0.1	0.05	3.7	0.58	<0.1	<0.02
071929	Soil	29.4	15.9	0.39	30.7	0.017	1	1.16	0.010	0.09	0.1	2.8	0.08	<0.02	11	0.2	0.03	3.1	0.69	<0.1	0.05
071930	Soil	19.5	38.2	0.28	27.1	0.007	1	2.59	0.004	0.05	0.2	2.5	0.05	0.03	85	0.3	0.07	3.8	1.25	<0.1	0.07
071931	Soil	34.8	25.2	0.53	66.0	0.006	2	1.77	0.017	0.18	0.1	3.5	0.09	<0.02	16	0.1	0.05	4.7	1.13	<0.1	0.06
071932	Soil	28.1	28.3	0.59	51.3	0.019	2	1.74	0.005	0.08	0.2	2.1	0.10	<0.02	<5	<0.1	0.07	4.9	0.93	<0.1	0.06
071933	Soil	29.2	20.3	0.47	50.6	0.006	<1	1.56	0.010	0.14	0.1	2.9	0.06	<0.02	8	<0.1	0.05	4.0	0.67	<0.1	0.07
071934	Soil	21.0	23.1	0.61	32.1	0.003	<1	1.60	0.006	0.04	0.2	2.1	0.03	0.03	21	0.2	0.05	4.0	0.59	<0.1	0.06
071935	Soil	17.8	21.0	0.46	40.9	0.003	2	1.51	0.010	0.05	<0.1	1.7	0.04	0.02	10	0.2	0.06	4.0	0.69	<0.1	0.04
071936	Soil	23.0	9.2	0.16	40.9	0.001	<1	0.75	0.002	0.04	<0.1	4.4	0.05	<0.02	56	0.1	0.07	1.3	0.60	<0.1	<0.02
071937	Soil	18.4	19.1	0.37	78.0	0.005	<1	1.33	0.007	0.07	0.1	2.0	0.05	0.03	18	0.1	0.05	3.9	0.76	<0.1	0.60
071938	Soil	28.1	24.4	0.53	77.9	0.004	2	1.78	0.008	0.11	0.1	2.4	0.06	<0.02	16	0.2	0.04	4.5	0.88	<0.1	0.04
071939	Soil	31.2	20.2	0.45	71.0	0.006	2	1.55	0.009	0.15	0.6	3.3	0.06	<0.02	19	<0.1	0.05	3.8	0.71	<0.1	0.04
071940	Soil	26.1	18.6	0.39	67.6	0.003	1	1.47	0.005	0.08	<0.1	1.9	0.08	<0.02	16	<0.1	0.06	3.8	0.72	<0.1	0.02
071941	Soil	21.1	24.7	0.51	55.3	0.003	<1	1.58	0.006	0.05	0.1	1.8	0.08	<0.02	8	0.2	0.08	4.0	1.14	<0.1	0.02
071942	Soil	19.4	17.1	0.28	55.6	0.004	<1	1.20	0.005	0.05	0.1	1.4	0.07	0.02	<5	0.2	0.05	3.6	0.99	<0.1	<0.02
071943	Soil	18.3	22.4	0.48	56.8	0.007	<1	1.43	0.007	0.05	<0.1	2.6	0.05	0.05	34	0.7	0.06	3.8	0.90	<0.1	0.02
071944	Soil	26.9	21.1	0.43	40.2	0.005	1	1.54	0.003	0.05	<0.1	2.2	0.07	<0.02	9	0.2	0.05	4.3	1.00	<0.1	<0.02
071945	Soil	25.0	24.1	0.59	59.7	0.003	<1	1.69	0.010	0.06	<0.1	1.8	0.04	<0.02	16	<0.1	0.07	4.7	0.98	<0.1	0.04
071946	Soil	35.7	28.9	0.78	45.3	0.004	<1	2.09	0.008	0.12	<0.1	2.4	0.05	<0.02	<5	<0.1	0.08	5.3	1.07	<0.1	0.09
071947	Soil	32.5	26.6	0.70	41.4	0.003	<1	1.90	0.006	0.08	<0.1	2.7	0.04	<0.02	12	0.1	0.07	4.5	0.90	0.1	0.06
071948	Soil	29.5	25.2	0.65	34.7	0.002	2	1.68	0.006	0.06	<0.1	2.5	0.03	<0.02	18	0.2	0.06	4.8	0.78	<0.1	0.09
071949	Soil	25.1	24.7	0.64	30.3	0.003	<1	1.64	0.006	0.05	<0.1	2.4	0.03	0.02	16	0.3	0.08	4.3	0.75	<0.1	0.07



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**Project:** None Given  
**Report Date:** September 28, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
071810	Soil	0.10	8.5	0.6	<0.05	2.3	3.39	71.0	0.02	<1	0.8	61.8	<10	<2
071921	Soil	0.41	6.7	0.3	<0.05	1.6	6.17	30.7	<0.02	1	0.4	38.6	<10	<2
071922	Soil	0.28	8.7	0.6	<0.05	2.5	10.14	53.9	0.02	<1	0.5	43.8	<10	<2
071923	Soil	0.37	7.0	0.5	<0.05	3.2	7.00	43.8	0.02	<1	0.5	39.1	<10	<2
071924	Soil	0.34	7.6	0.3	<0.05	2.4	6.82	38.7	<0.02	1	0.3	38.6	<10	<2
071925	Soil	0.35	7.8	0.3	<0.05	2.5	6.85	38.7	0.03	<1	0.6	39.5	<10	<2
071926	Soil	1.12	14.2	0.7	<0.05	3.7	4.74	53.8	0.03	<1	0.5	30.5	<10	<2
071927	Soil	0.30	4.4	0.8	<0.05	2.9	5.91	47.9	0.04	<1	0.4	37.4	<10	<2
071928	Soil	0.69	10.1	0.9	<0.05	0.4	1.89	39.4	<0.02	<1	<0.1	8.1	<10	<2
071929	Soil	0.52	7.4	0.6	<0.05	2.5	7.90	51.9	0.02	<1	0.2	30.8	<10	<2
071930	Soil	1.02	8.9	0.9	<0.05	4.6	4.34	43.8	0.04	<1	0.5	27.9	<10	<2
071931	Soil	0.32	11.6	0.6	<0.05	3.7	9.05	62.2	<0.02	<1	0.3	45.5	<10	<2
071932	Soil	0.69	8.7	0.8	<0.05	3.5	3.11	53.2	0.04	<1	0.2	47.3	<10	<2
071933	Soil	0.30	7.4	0.8	<0.05	3.7	6.71	53.4	<0.02	<1	0.3	41.8	<10	<2
071934	Soil	0.17	4.1	0.7	<0.05	2.6	5.33	38.2	0.02	<1	0.4	55.8	<10	<2
071935	Soil	0.17	4.3	0.4	<0.05	1.9	4.73	31.0	0.02	<1	0.7	42.1	<10	<2
071936	Soil	0.09	4.4	0.4	<0.05	0.9	13.73	47.2	0.04	<1	0.7	14.6	<10	<2
071937	Soil	0.59	7.5	0.5	<0.05	1.1	4.00	34.3	<0.02	<1	0.2	35.9	<10	<2
071938	Soil	0.36	8.8	0.5	<0.05	1.8	4.26	51.2	0.02	<1	0.6	46.0	<10	<2
071939	Soil	0.49	7.9	0.4	<0.05	3.2	7.99	57.0	0.02	<1	0.7	38.0	<10	<2
071940	Soil	0.36	9.5	0.5	<0.05	1.1	3.25	47.9	<0.02	<1	0.4	38.1	<10	<2
071941	Soil	0.36	7.0	0.9	<0.05	1.3	2.85	40.5	0.02	<1	0.5	50.1	<10	<2
071942	Soil	0.44	10.8	1.3	<0.05	0.7	2.78	39.0	0.03	<1	0.5	34.4	<10	<2
071943	Soil	0.47	6.5	0.5	<0.05	1.0	6.00	34.9	0.02	<1	0.5	42.9	<10	<2
071944	Soil	0.52	6.4	1.0	<0.05	1.5	3.92	50.9	0.05	<1	0.4	46.6	<10	<2
071945	Soil	0.20	5.9	0.5	<0.05	1.5	4.17	44.1	<0.02	<1	0.5	45.5	<10	<2
071946	Soil	0.11	5.4	0.7	<0.05	6.0	5.50	63.2	0.02	<1	0.6	59.8	<10	<2
071947	Soil	0.24	4.7	0.2	<0.05	3.9	5.46	57.2	0.03	<1	0.5	53.7	<10	<2
071948	Soil	0.14	3.6	0.4	<0.05	3.9	5.56	53.2	<0.02	<1	0.5	49.0	<10	<2
071949	Soil	0.14	3.2	0.4	<0.05	4.3	5.76	44.8	<0.02	<1	0.6	50.4	<10	<2



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**Project:** None Given  
**Report Date:** September 28, 2016

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# CERTIFICATE OF ANALYSIS

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Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
071950	Soil	0.57	55.18	38.28	93.9	109	41.1	19.0	571	4.01	58.0	1.4	7.1	8.9	49.8	0.10	0.98	0.56	10	0.61	0.047
071721	Soil	0.57	29.73	26.60	67.9	101	29.6	8.9	199	3.40	75.3	1.0	5.4	10.2	11.5	0.05	0.67	0.51	19	<0.01	0.030
071722	Soil	0.56	33.48	27.32	82.0	153	28.7	9.7	251	3.46	107.9	0.8	6.1	9.4	9.2	0.11	0.76	0.61	15	0.01	0.030
071723	Soil	0.49	37.33	40.16	108.0	207	39.6	15.7	587	3.59	169.1	1.2	14.4	8.4	17.8	0.37	0.84	0.57	13	0.17	0.040
071724	Soil	0.35	24.08	30.23	81.4	47	26.3	10.9	591	3.28	94.2	0.7	8.2	10.0	10.0	0.20	0.63	0.44	13	0.07	0.028
071725	Soil	0.43	21.40	32.54	113.0	62	33.2	12.4	458	3.30	110.1	0.8	7.5	8.0	18.8	0.60	0.61	0.54	13	0.18	0.029
071726	Soil	0.38	13.49	17.88	87.1	44	25.7	8.4	267	3.25	127.5	0.6	32.9	8.8	5.1	0.16	0.52	0.35	15	<0.01	0.023
071727	Soil	0.42	21.85	24.38	94.8	32	29.5	9.7	265	3.97	140.5	0.6	14.5	8.5	4.7	0.11	0.70	0.42	13	<0.01	0.022
071728	Soil	0.32	28.91	30.02	91.3	30	32.5	11.6	379	3.61	133.3	0.9	30.4	10.2	7.1	0.15	0.57	0.38	14	0.02	0.023
071729	Soil	0.53	43.50	51.31	160.5	196	37.2	17.0	486	4.05	774.4	1.7	40.2	10.6	25.6	0.37	0.90	1.23	11	0.06	0.033
071730	Soil	0.44	31.56	38.72	110.4	80	31.4	14.2	604	3.66	409.0	0.9	10.0	6.7	9.5	0.40	0.68	0.76	15	<0.01	0.035
071651	Soil	0.18	14.83	16.64	23.9	77	5.2	2.3	60	0.80	4.1	0.4	1.3	2.0	10.9	0.08	0.08	0.21	12	0.09	0.022
071652	Soil	0.37	15.41	19.30	51.3	39	20.1	12.1	310	2.79	15.8	0.9	1.5	6.1	32.9	0.06	0.64	0.35	13	0.42	0.030
071653	Soil	0.40	33.96	33.53	79.3	147	38.3	14.7	315	3.63	7.8	1.6	1.6	5.9	68.2	0.10	0.63	0.49	10	1.12	0.046
071654	Soil	0.35	29.41	23.59	52.8	234	27.9	9.8	485	2.72	11.1	2.4	1.4	3.0	117.8	0.25	0.32	0.34	12	1.81	0.060
071655	Soil	0.31	11.15	10.65	49.5	34	19.1	7.0	227	2.52	20.6	0.6	3.9	6.5	16.4	0.04	0.27	0.26	12	0.15	0.025
071656	Soil	0.32	28.66	17.79	46.5	81	19.8	6.8	187	2.27	4.6	1.4	<0.2	6.6	57.4	0.09	0.14	0.32	13	0.56	0.030
071657	Soil	0.52	30.15	40.92	58.6	137	22.4	9.8	901	3.11	42.7	3.1	2.4	2.2	100.5	0.39	0.56	0.33	11	1.28	0.095
071658	Soil	0.52	35.60	19.74	58.6	172	28.8	12.1	350	3.15	21.8	6.2	3.7	3.0	36.9	0.17	0.34	0.42	19	0.34	0.046
071659	Soil	0.32	9.05	6.87	37.4	61	5.7	2.6	123	0.96	5.5	0.3	<0.2	0.3	51.5	0.57	0.19	0.22	12	0.54	0.030
071660	Soil	0.54	13.39	17.04	71.3	82	19.5	6.4	196	2.90	23.7	0.8	2.9	4.3	13.8	0.12	0.36	0.37	17	0.07	0.031
071661	Soil	0.37	11.99	12.52	45.2	33	15.0	4.8	146	2.20	22.3	0.7	0.4	7.0	9.7	0.08	0.31	0.29	12	0.04	0.020
071662	Soil	0.53	19.21	22.47	65.6	32	23.1	8.5	252	3.19	42.5	0.8	1.8	8.2	12.9	0.07	0.60	0.46	14	0.08	0.025
071663	Soil	0.46	7.64	13.26	60.9	27	16.4	6.6	174	2.44	14.6	0.5	<0.2	3.4	8.3	0.11	0.23	0.30	14	0.05	0.024
071664	Soil	0.66	11.57	13.27	37.6	47	10.2	6.5	316	3.11	15.2	0.4	<0.2	4.2	6.6	0.08	0.51	0.35	19	0.03	0.033
071665	Soil	0.33	9.70	9.20	31.9	41	6.8	3.8	181	1.46	13.2	0.3	<0.2	2.1	8.0	0.22	0.35	0.22	14	0.05	0.031
071666	Soil	0.48	9.94	11.74	38.9	49	11.8	4.3	139	2.07	19.5	0.7	1.0	6.7	37.7	0.07	0.32	0.32	18	0.34	0.016
071667	Soil	0.37	32.34	26.79	97.7	88	38.8	16.2	467	4.36	51.2	1.3	35.2	8.8	20.1	0.08	0.66	0.42	14	0.35	0.040
071668	Soil	0.39	37.67	24.27	96.5	76	37.8	14.7	533	3.76	47.7	1.2	7.1	7.6	24.8	0.16	0.64	0.40	13	0.60	0.042
071669	Soil	0.38	35.62	24.71	100.3	112	34.4	13.2	431	3.84	48.6	1.6	11.2	8.8	32.8	0.10	0.63	0.38	13	0.55	0.052



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**Project:** None Given  
**Report Date:** September 28, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000274.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
071950	Soil	23.4	21.6	0.58	25.9	0.002	<1	1.46	0.006	0.04	<0.1	2.8	0.03	0.03	13	0.2	0.11	3.8	0.76	<0.1	0.07
071721	Soil	23.5	22.6	0.26	35.6	0.002	<1	1.14	0.006	0.07	0.2	1.9	0.07	<0.02	11	0.2	0.07	3.7	1.10	<0.1	0.04
071722	Soil	27.6	19.3	0.33	38.5	0.002	<1	1.18	0.005	0.08	0.2	1.6	0.07	<0.02	9	<0.1	0.05	3.8	1.18	0.1	<0.02
071723	Soil	22.4	20.5	0.42	59.4	0.002	1	1.44	0.006	0.11	0.2	2.0	0.08	<0.02	25	<0.1	0.07	4.3	1.80	<0.1	<0.02
071724	Soil	31.3	19.6	0.44	34.3	0.002	<1	1.34	0.005	0.08	0.2	1.5	0.05	<0.02	<5	<0.1	0.06	4.0	0.93	<0.1	<0.02
071725	Soil	22.7	18.7	0.41	59.7	0.002	<1	1.45	0.007	0.09	0.2	1.4	0.07	<0.02	12	0.2	0.07	4.0	1.56	<0.1	<0.02
071726	Soil	35.7	21.0	0.48	25.1	0.004	<1	1.34	0.002	0.04	0.2	1.3	0.04	<0.02	<5	<0.1	0.06	4.7	0.95	<0.1	<0.02
071727	Soil	27.0	22.5	0.47	19.0	0.002	<1	1.42	0.003	0.04	0.2	1.5	0.04	<0.02	<5	<0.1	0.06	4.0	1.08	<0.1	0.03
071728	Soil	33.6	24.5	0.59	33.0	0.003	<1	1.65	0.005	0.07	0.2	1.8	0.06	<0.02	20	0.2	0.05	4.3	1.18	<0.1	0.03
071729	Soil	20.4	18.6	0.33	18.8	0.001	<1	0.95	0.003	0.04	0.4	1.9	0.10	<0.02	34	0.2	0.09	3.1	2.06	<0.1	<0.02
071730	Soil	22.0	22.3	0.41	50.8	0.002	<1	1.49	0.006	0.09	0.3	1.6	0.11	<0.02	<5	<0.1	0.08	4.6	3.05	<0.1	<0.02
071651	Soil	12.6	6.3	0.08	32.2	0.005	<1	0.68	0.014	0.02	<0.1	0.8	0.05	<0.02	10	<0.1	0.04	3.4	1.17	<0.1	<0.02
071652	Soil	21.3	16.0	0.36	44.9	0.004	<1	1.22	0.004	0.04	0.1	2.0	0.06	0.02	7	0.2	0.04	3.3	1.29	<0.1	<0.02
071653	Soil	25.4	15.9	0.30	53.3	0.004	<1	1.00	0.004	0.03	<0.1	3.7	0.04	0.03	54	0.6	0.03	2.8	0.53	<0.1	<0.02
071654	Soil	26.3	14.8	0.21	75.8	0.008	<1	1.16	0.006	0.05	0.1	3.0	0.06	0.05	59	0.4	0.03	3.0	0.70	<0.1	<0.02
071655	Soil	28.6	18.2	0.42	46.1	0.002	<1	1.26	0.008	0.05	0.1	1.4	0.06	<0.02	9	<0.1	0.05	4.1	0.84	<0.1	0.03
071656	Soil	28.0	14.4	0.27	48.1	0.002	<1	1.25	0.009	0.04	<0.1	2.0	0.07	0.02	14	0.3	0.03	3.8	1.17	<0.1	0.02
071657	Soil	13.3	13.4	0.21	58.2	0.007	<1	1.18	0.006	0.04	0.1	2.2	0.06	0.06	38	0.5	0.04	2.7	0.73	<0.1	<0.02
071658	Soil	22.1	20.7	0.49	59.1	0.012	<1	1.53	0.004	0.03	0.2	2.2	0.05	0.03	41	0.4	0.05	4.6	0.98	<0.1	<0.02
071659	Soil	13.2	3.8	0.03	31.6	0.006	<1	0.32	0.013	0.03	<0.1	0.3	0.05	0.02	24	<0.1	<0.02	2.3	0.77	<0.1	<0.02
071660	Soil	23.9	18.9	0.40	47.9	0.006	<1	1.24	0.003	0.04	0.1	1.2	0.06	<0.02	15	0.2	0.02	5.2	1.01	<0.1	<0.02
071661	Soil	27.6	14.7	0.33	30.0	0.004	<1	1.03	0.004	0.04	<0.1	1.0	0.05	<0.02	10	0.2	0.05	4.3	1.31	<0.1	<0.02
071662	Soil	29.9	19.2	0.45	39.7	0.004	<1	1.26	0.004	0.05	<0.1	1.3	0.05	<0.02	12	<0.1	0.06	4.9	1.27	0.1	0.02
071663	Soil	19.9	14.3	0.39	27.1	0.005	<1	1.09	0.005	0.04	0.1	0.8	0.04	<0.02	17	<0.1	0.05	4.3	0.87	<0.1	<0.02
071664	Soil	23.0	12.0	0.15	57.1	0.005	<1	0.94	0.006	0.04	0.1	1.0	0.05	<0.02	18	<0.1	0.05	5.2	0.70	<0.1	<0.02
071665	Soil	19.6	5.9	0.06	31.1	0.003	1	0.55	0.007	0.02	0.1	0.7	0.05	<0.02	11	<0.1	0.05	3.7	0.46	<0.1	<0.02
071666	Soil	26.9	11.9	0.26	45.8	0.008	<1	0.94	0.003	0.03	0.1	0.9	0.05	<0.02	8	0.2	0.05	4.9	0.49	<0.1	<0.02
071667	Soil	19.0	29.3	0.81	26.6	0.001	<1	2.02	0.004	0.04	<0.1	2.3	0.02	<0.02	22	0.4	0.08	5.5	1.98	<0.1	0.07
071668	Soil	16.0	26.5	0.71	31.2	0.001	<1	1.79	0.006	0.05	<0.1	2.3	0.03	0.03	31	0.4	0.07	5.2	2.12	<0.1	0.10
071669	Soil	22.8	25.5	0.69	32.7	0.002	<1	1.80	0.005	0.06	0.1	2.4	0.03	0.02	20	0.3	0.06	5.1	1.46	<0.1	0.08



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**Project:** None Given  
**Report Date:** September 28, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
071950	Soil	0.14	3.4	0.6	<0.05	3.0	6.48	41.4	0.03	<1	0.5	46.6	<10	<2
071721	Soil	0.13	6.7	0.4	<0.05	2.6	1.71	41.0	<0.02	<1	0.3	18.8	<10	<2
071722	Soil	0.14	6.9	0.5	<0.05	0.5	1.90	47.7	0.02	<1	0.4	23.0	<10	<2
071723	Soil	0.13	8.9	0.7	<0.05	0.9	4.45	39.3	0.03	<1	0.2	33.3	<10	<2
071724	Soil	0.10	6.1	0.6	<0.05	0.9	2.48	55.7	<0.02	<1	0.5	33.0	<10	<2
071725	Soil	0.18	9.2	0.4	<0.05	1.0	2.46	39.7	0.02	<1	0.4	34.9	<10	<2
071726	Soil	0.17	7.4	0.5	<0.05	0.6	1.93	61.4	<0.02	<1	0.3	34.4	<10	<2
071727	Soil	0.11	6.2	0.4	<0.05	2.6	1.53	48.0	<0.02	<1	0.2	39.7	<10	<2
071728	Soil	0.11	5.5	0.4	<0.05	1.3	2.52	58.7	<0.02	<1	0.2	41.9	<10	<2
071729	Soil	0.04	3.4	0.2	<0.05	1.0	3.13	35.8	0.03	<1	0.5	24.7	<10	<2
071730	Soil	0.12	12.2	0.5	<0.05	0.7	2.04	39.6	0.02	<1	0.5	35.0	<10	<2
071651	Soil	0.51	4.4	0.5	<0.05	0.4	1.11	23.3	<0.02	<1	<0.1	13.1	<10	<2
071652	Soil	0.47	6.9	0.5	<0.05	1.0	3.27	38.9	0.03	<1	0.3	32.9	<10	<2
071653	Soil	0.36	4.0	0.3	<0.05	1.5	12.02	45.5	0.03	<1	0.9	30.1	<10	<2
071654	Soil	0.70	7.6	0.7	<0.05	1.1	16.78	42.4	0.03	<1	0.9	17.8	<10	<2
071655	Soil	0.27	7.6	0.8	<0.05	0.6	2.22	52.9	0.02	<1	0.2	34.8	<10	<2
071656	Soil	0.40	8.8	0.7	<0.05	1.0	5.43	50.6	<0.02	<1	0.4	34.2	<10	<2
071657	Soil	0.51	7.4	0.7	<0.05	0.9	8.77	26.9	0.03	<1	0.8	27.6	<10	<2
071658	Soil	0.93	4.8	0.7	<0.05	0.8	10.02	41.4	0.04	<1	0.6	38.5	<10	<2
071659	Soil	0.28	4.9	0.4	<0.05	<0.1	1.26	25.5	<0.02	<1	0.2	1.7	<10	<2
071660	Soil	0.55	8.7	0.9	<0.05	0.4	2.34	44.9	<0.02	<1	0.2	32.5	<10	<2
071661	Soil	0.37	9.6	0.5	<0.05	0.8	2.38	51.3	<0.02	<1	0.3	25.9	<10	<2
071662	Soil	0.40	9.4	0.5	<0.05	1.2	2.68	55.8	<0.02	<1	0.4	35.7	<10	<2
071663	Soil	0.39	10.6	0.9	<0.05	0.2	1.77	37.6	<0.02	<1	0.2	39.3	<10	<2
071664	Soil	0.45	5.7	0.9	<0.05	0.3	2.01	40.9	0.02	<1	0.1	14.1	<10	<2
071665	Soil	0.19	3.3	0.6	<0.05	0.4	1.15	38.2	<0.02	<1	0.1	4.9	<10	<2
071666	Soil	0.64	3.8	0.8	<0.05	1.0	1.95	50.0	<0.02	<1	<0.1	22.5	<10	<2
071667	Soil	0.09	3.0	0.3	<0.05	2.9	3.85	34.9	<0.02	1	0.4	59.6	<10	<2
071668	Soil	0.14	3.8	0.4	<0.05	3.2	4.00	31.0	0.02	<1	0.5	54.5	<10	<2
071669	Soil	0.11	3.9	0.8	<0.05	3.7	5.87	41.0	0.03	<1	0.3	53.8	<10	<2



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**Project:** None Given  
**Report Date:** September 28, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000274.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
071670	Soil	0.56	26.52	26.64	92.3	100	35.4	16.9	500	3.80	35.6	1.2	3.3	9.1	10.4	0.10	0.47	0.35	13	0.10	0.041
071671	Soil	0.38	19.51	18.89	70.4	67	29.3	9.8	218	2.89	18.0	1.7	2.3	6.1	79.2	0.09	0.38	0.29	10	1.10	0.044
071672	Soil	0.28	28.68	26.49	71.0	103	29.4	12.6	283	3.38	30.8	1.7	3.9	7.5	77.1	0.06	0.50	0.38	12	0.89	0.054
071673	Soil	0.49	18.70	14.42	55.1	68	14.8	6.6	145	3.23	34.1	0.5	0.4	6.3	9.1	0.10	0.52	0.34	12	0.05	0.028
071674	Soil	0.39	7.26	14.18	59.3	65	15.4	6.2	208	2.53	13.9	0.8	0.5	6.2	37.1	0.05	0.21	0.31	21	0.31	0.017
071675	Soil	0.44	31.89	25.46	51.0	142	19.2	9.6	428	2.43	69.6	1.0	2.5	4.9	36.4	0.21	0.48	0.35	12	0.39	0.033
071676	Soil	0.51	11.90	10.64	37.1	56	7.4	3.9	132	1.68	10.9	0.4	<0.2	1.7	9.6	0.19	0.28	0.24	22	0.08	0.024
071677	Soil	0.33	24.27	20.41	45.9	161	20.5	9.5	348	3.02	22.2	2.8	7.8	4.7	57.1	0.11	0.37	0.30	16	0.76	0.039
071678	Soil	0.22	23.53	17.30	60.2	61	26.7	9.8	322	3.19	16.1	0.8	2.0	7.6	43.5	0.14	0.38	0.29	15	0.51	0.025
071679	Soil	0.32	4.69	11.92	51.2	33	8.8	4.8	153	1.53	6.7	0.3	0.5	5.9	13.3	0.03	0.13	0.18	17	0.10	0.009
071680	Soil	0.81	17.77	19.00	47.0	84	16.3	7.4	162	3.28	28.1	0.6	0.7	6.1	12.9	0.12	0.56	0.39	21	0.10	0.039
072291	Soil	0.26	19.90	14.60	42.8	99	18.9	7.7	298	2.17	11.9	1.1	1.3	4.2	91.1	0.11	0.45	0.21	9	1.43	0.040
072292	Soil	0.29	12.28	15.93	56.3	28	23.0	9.5	269	2.95	16.0	0.5	<0.2	8.0	23.0	0.03	0.33	0.25	14	0.27	0.015
072293	Soil	0.22	24.60	17.97	58.5	62	24.2	10.3	366	2.60	16.3	1.0	1.2	6.9	65.3	0.07	0.58	0.25	11	1.08	0.036
072294	Soil	0.28	24.84	22.49	64.7	83	26.8	11.6	342	3.03	19.3	1.0	2.2	10.9	57.5	0.07	0.56	0.29	12	0.81	0.028
072295	Soil	0.26	24.84	18.66	58.2	67	24.5	10.7	383	2.60	18.7	0.8	2.9	6.0	63.2	0.08	0.53	0.25	10	0.90	0.038
072296	Soil	0.29	23.49	18.67	55.0	51	22.3	10.7	505	2.65	17.1	1.4	1.6	6.1	50.9	0.06	0.49	0.26	11	0.65	0.032
072297	Soil	0.26	23.72	17.90	62.0	49	25.1	10.7	360	2.89	16.7	0.6	1.2	8.9	105.8	0.07	0.54	0.24	11	1.96	0.040
072298	Soil	0.33	21.71	19.57	61.8	24	22.9	10.6	372	2.99	16.2	0.6	<0.2	10.1	16.4	0.04	0.48	0.25	14	0.11	0.019
072299	Soil	0.30	27.40	20.36	63.7	92	25.9	9.7	341	2.80	17.3	0.8	1.6	6.9	70.7	0.18	0.59	0.27	10	1.08	0.059
072300	Soil	0.29	13.10	14.19	55.8	18	19.6	6.3	179	2.76	17.6	0.4	1.2	7.9	7.5	0.03	0.42	0.21	13	0.03	0.020
072201	Soil	0.43	15.59	20.49	68.8	17	23.8	11.8	370	3.44	38.8	0.7	2.4	8.7	11.9	0.07	0.50	0.40	14	0.09	0.017
072202	Soil	0.24	25.38	18.66	61.9	62	28.7	10.5	317	3.38	22.2	0.8	1.6	9.9	23.7	0.05	0.44	0.39	13	0.18	0.022
072203	Soil	0.21	22.25	20.17	54.7	34	27.9	12.2	440	2.99	14.3	0.9	2.0	9.0	33.7	0.07	0.57	0.32	12	0.37	0.020
072204	Soil	0.59	19.99	25.33	84.4	25	25.1	13.3	344	4.67	41.7	0.6	2.5	8.9	8.2	0.10	0.64	0.52	18	0.03	0.031
072205	Soil	0.33	5.88	15.00	30.8	28	9.5	5.3	143	1.83	9.6	0.5	0.6	4.0	8.1	0.04	0.15	0.24	15	0.06	0.019
072206	Soil	0.56	34.63	44.24	64.7	72	33.5	19.5	499	4.13	66.5	2.0	5.3	7.9	32.9	0.12	0.65	0.51	14	0.30	0.045
072207	Soil	0.67	14.03	25.99	89.6	128	23.9	14.6	519	3.73	25.7	0.8	1.5	8.7	11.9	0.09	0.39	0.45	22	0.08	0.024
072208	Soil	0.46	27.33	24.35	68.8	30	34.6	14.1	476	3.85	45.4	0.9	2.3	7.3	11.6	0.04	0.56	0.38	13	0.10	0.024
072209	Soil	0.43	51.78	29.76	98.0	135	44.4	18.2	584	4.17	35.1	1.5	4.6	7.3	42.0	0.08	0.60	0.48	13	0.51	0.060



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**Project:** None Given  
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# CERTIFICATE OF ANALYSIS

WHI16000274.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
071670	Soil	22.0	27.1	0.69	30.3	0.001	<1	1.82	0.005	0.05	<0.1	2.0	0.04	<0.02	25	0.3	0.05	5.2	1.04	<0.1	0.09
071671	Soil	11.6	22.4	0.65	25.6	0.002	1	1.52	0.005	0.04	<0.1	1.9	0.02	0.08	22	0.5	0.04	4.2	0.74	<0.1	0.06
071672	Soil	18.5	21.0	0.58	56.0	0.003	1	1.64	0.008	0.07	<0.1	2.2	0.04	0.05	36	0.4	0.05	4.6	0.99	<0.1	0.07
071673	Soil	25.7	13.0	0.25	27.5	0.002	<1	1.08	0.005	0.02	<0.1	1.1	0.04	<0.02	10	0.3	0.07	4.9	0.68	<0.1	<0.02
071674	Soil	24.4	19.2	0.45	44.0	0.012	<1	1.30	0.004	0.04	0.2	1.6	0.07	<0.02	8	0.2	0.02	5.7	1.26	<0.1	<0.02
071675	Soil	19.9	9.1	0.13	31.6	0.003	<1	1.14	0.016	0.03	<0.1	2.4	0.05	0.02	33	0.4	0.05	3.7	0.66	<0.1	0.02
071676	Soil	22.0	9.1	0.12	33.3	0.011	<1	0.67	0.005	0.05	0.1	0.6	0.05	<0.02	17	<0.1	0.04	5.2	0.62	<0.1	<0.02
071677	Soil	19.3	18.0	0.32	82.9	0.006	<1	1.45	0.007	0.07	<0.1	2.5	0.06	0.02	25	0.3	0.03	4.4	0.94	<0.1	<0.02
071678	Soil	25.1	20.8	0.42	95.8	0.003	<1	1.81	0.006	0.10	<0.1	3.1	0.07	<0.02	19	0.3	0.05	5.1	0.93	<0.1	0.04
071679	Soil	27.0	12.8	0.22	47.6	0.004	<1	1.30	0.003	0.05	<0.1	1.3	0.09	<0.02	18	<0.1	0.02	5.0	0.75	<0.1	0.04
071680	Soil	22.9	15.2	0.21	32.3	0.004	<1	1.10	0.003	0.05	0.2	1.3	0.07	<0.02	13	0.1	0.05	5.6	0.81	<0.1	<0.02
072291	Soil	15.7	14.1	0.29	83.1	0.003	<1	1.28	0.013	0.09	<0.1	2.0	0.05	0.04	31	0.3	0.03	3.3	0.66	<0.1	0.05
072292	Soil	26.2	19.8	0.50	49.6	0.004	<1	1.51	0.004	0.06	<0.1	1.5	0.05	<0.02	10	0.1	<0.02	4.4	0.74	<0.1	0.04
072293	Soil	19.0	17.2	0.39	63.3	0.004	1	1.42	0.016	0.12	<0.1	2.0	0.06	0.03	27	0.3	0.02	3.8	0.75	<0.1	0.10
072294	Soil	27.9	19.9	0.43	69.5	0.002	1	1.59	0.008	0.13	<0.1	2.7	0.06	<0.02	29	0.4	0.03	4.3	0.83	<0.1	0.11
072295	Soil	18.2	16.3	0.37	59.3	0.003	<1	1.31	0.013	0.09	<0.1	2.2	0.05	0.03	28	0.4	0.03	3.6	0.71	<0.1	0.06
072296	Soil	20.5	16.5	0.34	79.1	0.003	<1	1.41	0.011	0.09	<0.1	2.1	0.05	0.03	22	0.2	0.05	3.9	0.73	<0.1	0.05
072297	Soil	25.1	17.9	0.44	59.6	0.003	<1	1.41	0.006	0.10	<0.1	2.4	0.05	<0.02	20	0.2	0.03	4.0	0.66	<0.1	0.07
072298	Soil	32.9	17.2	0.39	88.6	0.002	<1	1.60	0.006	0.08	<0.1	2.0	0.06	<0.02	14	0.2	0.03	5.1	0.63	<0.1	0.06
072299	Soil	19.4	16.3	0.40	58.0	0.002	1	1.31	0.006	0.09	<0.1	2.4	0.04	0.04	29	0.2	0.02	3.5	0.67	<0.1	0.10
072300	Soil	29.7	16.4	0.35	50.7	0.002	<1	1.37	0.005	0.07	<0.1	1.2	0.06	<0.02	16	0.2	<0.02	5.0	0.91	<0.1	0.03
072201	Soil	24.4	21.3	0.50	38.0	0.004	<1	1.44	0.003	0.04	<0.1	1.6	0.05	<0.02	6	0.2	0.05	4.4	0.81	<0.1	0.02
072202	Soil	32.0	22.0	0.56	50.0	0.003	<1	1.72	0.005	0.08	<0.1	2.9	0.04	<0.02	16	0.2	0.04	4.4	0.82	<0.1	0.06
072203	Soil	27.0	17.9	0.40	65.6	0.003	<1	1.40	0.005	0.09	<0.1	2.6	0.06	<0.02	12	0.3	0.03	3.9	0.64	<0.1	0.03
072204	Soil	27.7	24.3	0.46	32.2	0.003	<1	1.48	0.003	0.04	0.1	1.3	0.05	<0.02	8	0.2	0.06	5.4	0.96	<0.1	0.02
072205	Soil	13.5	11.4	0.21	23.5	0.006	<1	0.83	0.003	0.02	0.1	0.9	0.05	<0.02	11	0.3	<0.02	3.2	0.70	<0.1	<0.02
072206	Soil	23.0	21.1	0.40	44.8	0.003	<1	1.74	0.005	0.04	0.1	2.2	0.06	0.02	24	0.5	0.06	3.9	1.21	<0.1	0.03
072207	Soil	25.9	25.4	0.42	60.6	0.005	<1	1.79	0.005	0.06	0.1	1.8	0.09	<0.02	11	0.2	0.04	5.4	1.54	<0.1	0.03
072208	Soil	18.8	24.9	0.62	30.7	0.002	<1	1.65	0.003	0.03	<0.1	1.6	0.04	<0.02	10	0.3	0.06	4.2	0.59	<0.1	0.03
072209	Soil	25.4	25.5	0.59	58.7	0.002	1	1.64	0.007	0.08	0.1	3.3	0.05	0.03	61	0.5	0.06	4.3	1.09	<0.1	0.06



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**Project:** None Given  
**Report Date:** September 28, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
071670	Soil	0.11	3.7	1.6	<0.05	3.0	4.73	42.8	0.03	<1	0.3	48.8	<10	<2
071671	Soil	0.12	3.5	0.5	<0.05	3.0	4.92	22.9	<0.02	<1	0.3	48.0	<10	<2
071672	Soil	0.30	5.2	0.5	<0.05	3.2	5.75	35.0	0.02	<1	0.5	43.3	<10	<2
071673	Soil	0.22	4.3	0.4	<0.05	1.0	2.12	48.0	<0.02	<1	0.3	24.4	<10	<2
071674	Soil	0.85	8.6	0.9	<0.05	0.9	2.40	46.8	<0.02	1	0.1	40.2	<10	<2
071675	Soil	0.37	5.1	0.4	<0.05	1.7	13.64	35.5	<0.02	<1	0.5	16.1	<10	<2
071676	Soil	0.79	9.7	0.8	<0.05	0.1	1.66	42.1	<0.02	<1	<0.1	7.7	<10	<2
071677	Soil	0.84	7.5	0.7	<0.05	1.2	5.77	36.0	0.03	<1	0.6	30.6	<10	<2
071678	Soil	0.45	10.1	0.5	<0.05	1.9	5.79	45.8	0.03	<1	0.7	39.3	<10	<2
071679	Soil	0.42	11.9	0.6	<0.05	1.1	1.81	47.6	<0.02	<1	<0.1	25.7	<10	<2
071680	Soil	0.72	8.2	1.0	<0.05	0.7	2.42	41.8	0.02	<1	0.3	24.5	<10	<2
072291	Soil	0.37	7.0	0.4	<0.05	2.5	5.73	29.0	<0.02	1	0.2	26.1	<10	<2
072292	Soil	0.40	6.2	0.5	<0.05	2.3	2.87	50.2	0.02	<1	0.2	41.0	<10	<2
072293	Soil	0.36	6.8	0.5	<0.05	3.7	5.08	35.9	<0.02	<1	0.5	34.2	<10	<2
072294	Soil	0.31	8.8	0.7	<0.05	5.3	8.30	49.4	<0.02	<1	0.6	41.8	<10	<2
072295	Soil	0.31	6.5	0.4	<0.05	2.3	6.76	34.3	<0.02	<1	0.5	32.4	<10	<2
072296	Soil	0.34	6.7	0.7	<0.05	2.0	6.42	39.5	<0.02	<1	0.6	30.8	<10	<2
072297	Soil	0.33	6.2	0.2	<0.05	3.4	6.45	46.4	<0.02	<1	0.8	35.1	<10	<2
072298	Soil	0.22	7.7	0.6	<0.05	2.8	4.16	64.6	<0.02	<1	0.3	36.2	<10	<2
072299	Soil	0.30	6.3	0.5	<0.05	3.8	7.34	35.6	<0.02	<1	0.4	32.9	<10	<2
072300	Soil	0.22	9.3	0.4	<0.05	1.7	2.07	57.5	<0.02	<1	0.4	31.1	<10	<2
072201	Soil	0.44	6.7	0.4	<0.05	1.7	2.58	47.8	0.03	<1	0.3	46.4	<10	<2
072202	Soil	0.26	6.3	0.5	<0.05	2.9	6.61	58.4	0.03	<1	0.6	46.7	<10	<2
072203	Soil	0.38	6.3	0.3	<0.05	2.7	6.15	51.3	0.02	<1	0.4	38.2	<10	<2
072204	Soil	0.49	9.6	0.4	<0.05	2.0	2.22	52.7	0.03	<1	0.3	45.3	<10	<2
072205	Soil	0.64	4.8	0.5	<0.05	0.5	1.71	27.0	<0.02	<1	0.2	25.4	<10	<2
072206	Soil	0.45	7.9	0.7	<0.05	1.7	7.90	50.5	0.04	<1	0.7	47.4	<10	<2
072207	Soil	0.53	14.0	0.8	<0.05	1.6	3.14	51.2	0.04	<1	0.4	54.4	<10	<2
072208	Soil	0.14	3.6	0.7	<0.05	1.7	2.79	37.8	0.03	<1	0.4	52.0	<10	<2
072209	Soil	0.17	5.3	0.5	<0.05	2.6	9.98	47.2	0.02	<1	0.7	45.7	<10	<2



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**Project:** None Given  
**Report Date:** September 28, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000274.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
072210	Soil	0.39	35.78	25.77	89.2	73	39.9	15.4	578	4.03	37.5	1.1	5.6	9.4	38.8	0.07	0.49	0.42	15	0.38	0.047
072211	Soil	0.51	27.57	29.33	85.2	59	39.4	18.2	776	4.35	21.4	1.4	3.1	8.7	31.6	0.08	0.43	0.43	14	0.31	0.031
072212	Soil	0.63	35.64	27.32	94.8	108	31.4	15.1	784	3.47	44.7	3.0	3.8	2.9	74.2	0.25	0.58	0.39	14	0.97	0.065
072213	Soil	0.35	29.49	23.49	79.0	38	38.5	13.1	326	3.75	31.6	0.8	2.6	11.6	9.9	0.03	0.49	0.38	15	0.03	0.022
072214	Soil	0.35	11.92	13.67	58.5	23	24.5	7.6	211	3.40	20.7	0.5	0.8	8.5	6.7	0.02	0.30	0.27	16	0.03	0.016
072215	Soil	0.45	38.86	24.98	71.7	77	41.1	12.5	446	4.12	28.9	0.9	2.6	12.3	10.4	0.06	0.47	0.46	13	0.04	0.024
072216	Soil	0.38	38.38	34.35	91.8	69	45.0	16.8	447	3.74	27.3	0.9	1.2	7.8	23.5	0.04	6.69	0.50	5	0.17	0.023
072217	Soil	0.34	17.33	21.68	72.7	30	34.0	11.6	250	3.75	24.9	0.9	5.8	8.6	25.2	0.02	0.38	0.34	16	0.16	0.017
072218	Soil	0.39	16.16	18.31	60.5	93	24.6	11.6	436	3.04	18.7	1.5	0.7	5.0	61.3	0.08	0.25	0.33	22	0.75	0.032
072219	Soil	0.52	26.11	44.56	78.1	253	39.3	15.3	1065	4.65	11.2	1.2	1.3	13.0	32.6	0.06	0.29	0.52	16	0.34	0.047
072220	Soil	0.52	34.77	37.99	89.6	90	42.3	19.5	577	4.28	11.0	1.4	1.8	10.0	40.2	0.06	0.32	0.49	12	0.34	0.042
072221	Soil	0.37	21.70	18.80	83.6	30	32.9	11.4	243	4.18	23.0	0.6	0.4	10.4	6.0	0.05	0.39	0.45	14	0.02	0.020
072222	Soil	0.41	8.80	14.17	53.4	56	19.9	7.2	217	3.14	9.3	0.7	<0.2	7.9	19.6	0.02	0.21	0.29	19	0.19	0.020
072223	Soil	0.42	29.79	22.55	69.7	62	37.5	13.0	408	3.69	23.0	0.8	1.9	10.4	27.1	0.02	0.60	0.40	14	0.19	0.038
072224	Soil	0.32	27.95	25.75	62.5	50	33.3	12.3	400	3.57	27.3	0.7	2.5	8.3	36.0	0.04	0.51	0.36	12	0.34	0.044
072225	Soil	0.54	21.03	19.20	68.3	32	26.1	9.4	191	3.73	30.1	0.6	0.9	8.0	5.7	0.06	3.56	0.37	9	0.01	0.022
072226	Soil	0.40	8.67	13.74	73.6	34	20.7	7.6	288	3.10	6.9	0.4	0.5	9.2	11.2	0.01	0.18	0.28	19	0.09	0.014
072227	Soil	0.46	42.20	35.53	100.0	46	46.1	26.2	418	4.96	8.9	1.4	0.8	17.7	30.3	0.03	0.49	0.65	12	0.23	0.032
072228	Soil	0.37	16.71	18.25	58.9	42	27.0	10.2	290	3.48	19.1	0.9	0.8	9.4	23.7	0.03	1.65	0.31	12	0.30	0.019
072229	Soil	0.71	27.68	29.34	73.0	29	26.0	11.2	320	4.37	40.4	0.7	2.2	9.0	9.8	0.05	1.25	0.58	17	0.08	0.033
072230	Soil	0.63	33.12	31.75	92.1	53	32.3	13.4	424	4.57	44.3	0.8	<0.2	10.7	9.3	0.09	1.34	0.56	12	0.07	0.042
072231	Soil	0.46	21.39	26.34	95.8	53	26.0	14.2	682	3.45	26.9	1.0	0.8	6.9	27.1	0.07	0.52	0.44	14	0.29	0.047
072232	Soil	0.22	17.42	16.10	50.7	22	24.1	9.6	285	2.71	17.1	0.6	1.8	7.8	19.7	0.06	0.40	0.26	12	0.17	0.019
072233	Soil	0.40	23.21	23.92	61.5	91	29.3	11.7	371	3.03	15.5	0.8	1.9	7.7	77.0	0.07	0.56	0.35	11	1.36	0.033
072234	Soil	0.14	9.07	7.38	10.8	40	3.3	2.4	200	0.45	1.1	0.5	<0.2	0.2	14.1	0.18	0.07	0.07	6	0.06	0.023
072235	Soil	0.25	20.95	16.19	60.0	28	26.5	10.4	321	2.89	19.3	0.6	5.9	8.9	22.2	0.02	0.42	0.26	12	0.21	0.030
072236	Soil	0.31	26.62	20.57	56.7	88	28.8	12.4	482	2.95	18.4	1.3	4.7	6.9	65.5	0.08	0.50	0.30	12	0.82	0.048
072237	Soil	0.23	19.65	12.09	37.4	89	18.1	7.0	434	1.90	11.3	2.1	1.9	2.0	121.1	0.09	0.31	0.19	9	1.41	0.047
072238	Soil	0.46	37.59	26.30	76.0	169	27.9	13.2	741	3.18	28.5	2.7	2.9	3.5	101.4	0.24	0.54	0.40	14	1.24	0.057
072239	Soil	0.39	37.50	19.68	69.1	192	24.9	11.8	828	2.52	20.8	3.7	1.5	1.2	171.6	0.43	0.37	0.29	13	1.88	0.073



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**Project:** None Given  
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# CERTIFICATE OF ANALYSIS

# WHI16000274.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
072210	Soil	30.5	28.1	0.68	62.3	0.002	<1	1.97	0.009	0.11	<0.1	2.7	0.04	<0.02	20	0.3	0.06	5.0	0.80	<0.1	0.08
072211	Soil	28.9	26.1	0.57	40.5	0.003	<1	1.63	0.005	0.06	<0.1	3.2	0.04	<0.02	23	0.4	0.05	4.4	0.89	<0.1	0.05
072212	Soil	15.4	23.5	0.43	77.9	0.004	1	1.45	0.008	0.08	<0.1	2.4	0.05	0.05	36	0.7	0.05	4.0	1.02	<0.1	0.05
072213	Soil	37.8	26.4	0.62	61.7	0.002	<1	2.12	0.007	0.12	<0.1	2.1	0.06	<0.02	12	<0.1	0.05	4.7	0.97	<0.1	0.04
072214	Soil	35.4	22.1	0.53	43.6	0.003	<1	1.73	0.004	0.06	<0.1	1.4	0.06	<0.02	11	<0.1	0.03	4.8	0.87	<0.1	<0.02
072215	Soil	38.6	24.1	0.50	54.4	0.002	<1	1.74	0.005	0.07	<0.1	2.9	0.05	<0.02	18	0.1	0.06	4.2	1.14	<0.1	0.04
072216	Soil	21.1	6.0	0.09	37.7	<0.001	<1	0.51	0.005	0.04	<0.1	5.0	0.05	<0.02	41	0.3	0.03	0.8	1.51	<0.1	<0.02
072217	Soil	29.6	25.3	0.52	86.7	0.004	<1	2.03	0.005	0.07	0.1	2.3	0.07	<0.02	11	0.2	0.05	4.7	1.48	<0.1	0.04
072218	Soil	20.2	23.9	0.52	83.0	0.008	<1	1.61	0.005	0.05	0.2	2.0	0.07	0.03	23	0.4	0.02	5.0	1.08	<0.1	0.02
072219	Soil	39.5	22.5	0.52	41.0	0.002	<1	1.93	0.004	0.03	<0.1	6.6	0.06	<0.02	47	0.5	0.05	4.3	0.90	<0.1	0.05
072220	Soil	29.9	20.9	0.40	46.2	0.002	<1	1.25	0.005	0.04	<0.1	4.0	0.04	<0.02	36	0.3	0.03	3.1	1.16	<0.1	<0.02
072221	Soil	39.2	24.1	0.55	44.8	0.001	<1	1.78	0.004	0.06	<0.1	1.7	0.05	<0.02	10	0.1	0.03	4.4	1.15	<0.1	0.03
072222	Soil	30.8	20.7	0.43	48.4	0.004	<1	1.65	0.004	0.04	<0.1	1.7	0.06	<0.02	7	<0.1	0.02	4.8	0.70	<0.1	<0.02
072223	Soil	35.2	22.8	0.50	53.3	0.003	<1	1.59	0.006	0.08	<0.1	3.4	0.04	<0.02	28	<0.1	0.02	3.9	0.76	<0.1	0.03
072224	Soil	27.4	21.2	0.48	59.9	0.001	<1	1.58	0.007	0.07	<0.1	2.4	0.04	<0.02	20	0.3	0.05	3.9	0.76	<0.1	0.04
072225	Soil	26.2	12.0	0.20	36.4	0.001	<1	0.97	0.004	0.04	0.1	1.4	0.05	<0.02	12	0.1	0.04	2.4	1.10	<0.1	<0.02
072226	Soil	37.0	21.3	0.50	61.2	0.004	<1	1.65	0.005	0.05	<0.1	1.5	0.06	<0.02	<5	<0.1	0.02	4.8	1.07	<0.1	0.03
072227	Soil	51.4	22.6	0.49	49.8	0.001	<1	1.70	0.005	0.07	<0.1	6.4	0.07	<0.02	23	0.1	0.04	4.3	1.81	<0.1	0.05
072228	Soil	24.0	15.6	0.33	53.7	0.003	1	1.18	0.005	0.05	<0.1	2.7	0.05	<0.02	11	0.2	0.03	2.8	0.68	<0.1	0.03
072229	Soil	25.9	18.3	0.30	21.0	0.008	<1	0.94	0.003	0.04	<0.1	1.6	0.05	<0.02	9	0.1	0.08	3.9	0.90	<0.1	<0.02
072230	Soil	33.6	23.4	0.56	19.4	0.003	<1	1.43	0.004	0.04	<0.1	1.6	0.04	<0.02	11	0.2	0.05	3.9	1.00	<0.1	0.04
072231	Soil	25.5	19.9	0.48	55.1	0.005	<1	1.39	0.005	0.05	<0.1	2.5	0.05	<0.02	19	0.1	0.05	3.8	1.01	<0.1	0.03
072232	Soil	28.6	18.5	0.41	64.2	0.002	<1	1.47	0.008	0.09	<0.1	1.4	0.06	<0.02	11	0.2	0.03	4.1	0.77	<0.1	0.03
072233	Soil	23.1	15.6	0.26	65.4	0.002	<1	1.12	0.006	0.07	<0.1	3.2	0.06	<0.02	38	0.2	0.04	2.5	0.64	<0.1	0.03
072234	Soil	3.8	3.3	0.03	24.2	0.010	<1	0.27	0.023	0.02	<0.1	0.5	0.02	<0.02	13	0.3	<0.02	1.8	0.58	<0.1	<0.02
072235	Soil	30.3	19.7	0.46	61.4	0.003	1	1.46	0.006	0.09	<0.1	2.0	0.05	<0.02	9	0.2	0.03	3.5	0.69	<0.1	0.05
072236	Soil	23.1	20.0	0.45	73.5	0.003	2	1.48	0.007	0.11	<0.1	2.4	0.05	0.03	26	0.5	0.04	3.8	0.81	<0.1	0.04
072237	Soil	11.0	12.7	0.28	72.4	0.004	2	1.09	0.022	0.07	<0.1	1.5	0.04	0.07	27	0.6	0.02	2.6	0.59	<0.1	0.03
072238	Soil	17.8	21.4	0.42	70.9	0.004	2	1.51	0.006	0.08	<0.1	2.4	0.06	0.05	24	0.5	0.05	4.0	0.87	<0.1	0.04
072239	Soil	13.7	17.1	0.32	80.5	0.005	2	1.27	0.010	0.07	<0.1	1.8	0.04	0.07	27	0.7	0.04	3.4	0.79	<0.1	0.03



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**Project:** None Given  
**Report Date:** September 28, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000274.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
072210	Soil	0.14	5.5	0.7	<0.05	3.1	5.90	57.4	0.03	<1	0.4	55.6	<10	<2
072211	Soil	0.17	4.8	0.4	<0.05	1.8	6.14	56.2	0.03	<1	0.6	59.9	<10	<2
072212	Soil	0.48	9.1	0.8	<0.05	1.7	6.42	30.6	0.02	<1	0.6	36.8	<10	<2
072213	Soil	0.11	8.1	0.5	<0.05	2.8	4.03	72.7	<0.02	<1	0.8	52.7	<10	<2
072214	Soil	0.28	7.8	0.5	<0.05	1.3	2.24	67.2	<0.02	<1	0.5	50.0	<10	<2
072215	Soil	0.15	7.7	0.6	<0.05	2.6	6.27	75.2	0.04	<1	0.5	53.8	<10	<2
072216	Soil	0.05	4.3	0.5	<0.05	1.1	11.77	41.3	0.03	<1	0.8	7.7	<10	<2
072217	Soil	0.37	10.2	0.6	<0.05	2.3	4.11	61.4	0.03	<1	0.9	48.3	<10	<2
072218	Soil	0.83	6.9	0.8	<0.05	1.1	3.20	39.0	0.03	<1	0.4	44.3	<10	<2
072219	Soil	0.16	5.1	0.4	<0.05	2.0	19.99	82.4	0.05	<1	0.9	56.2	<10	<2
072220	Soil	0.17	5.1	0.3	<0.05	1.2	8.80	59.8	0.03	<1	0.7	45.9	<10	<2
072221	Soil	0.13	7.8	0.3	<0.05	2.3	2.68	73.6	0.03	<1	0.4	60.4	<10	<2
072222	Soil	0.39	5.9	0.5	<0.05	0.9	2.97	61.7	0.02	<1	0.4	51.4	<10	<2
072223	Soil	0.17	5.7	0.3	<0.05	1.5	8.00	68.3	0.02	<1	0.4	46.9	<10	<2
072224	Soil	0.14	5.8	0.6	<0.05	1.8	5.21	53.3	0.02	<1	0.4	46.1	<10	<2
072225	Soil	0.21	7.8	0.3	<0.05	1.8	2.85	51.0	0.02	<1	0.4	24.4	<10	<2
072226	Soil	0.27	10.3	0.5	<0.05	1.9	2.47	72.3	0.02	<1	0.3	49.7	<10	<2
072227	Soil	0.12	9.4	0.2	<0.05	3.1	10.84	109.5	0.04	<1	1.1	66.7	<10	<2
072228	Soil	0.34	4.9	0.3	<0.05	1.8	5.49	49.3	0.03	<1	0.6	28.6	<10	<2
072229	Soil	0.65	7.4	0.8	<0.05	1.8	3.06	50.5	0.02	<1	0.4	25.0	<10	<2
072230	Soil	0.18	6.0	0.3	<0.05	2.3	3.51	61.8	0.03	<1	0.5	53.1	<10	<2
072231	Soil	0.35	9.7	0.6	<0.05	1.0	6.77	49.3	0.02	<1	0.4	44.4	<10	<2
072232	Soil	0.22	8.0	0.2	<0.05	1.4	2.80	56.4	<0.02	<1	0.3	39.4	<10	<2
072233	Soil	0.25	6.7	0.6	<0.05	1.2	8.81	48.2	0.03	<1	0.7	26.7	<10	<2
072234	Soil	0.33	3.2	0.2	<0.05	0.1	1.90	8.0	<0.02	<1	<0.1	4.1	<10	<2
072235	Soil	0.25	6.7	0.2	<0.05	2.1	4.57	57.7	<0.02	<1	0.5	39.4	<10	<2
072236	Soil	0.31	7.7	0.4	<0.05	2.0	6.43	44.8	<0.02	<1	0.7	40.9	<10	<2
072237	Soil	0.39	6.5	0.2	<0.05	1.4	5.09	20.9	<0.02	<1	0.4	25.6	<10	<2
072238	Soil	0.44	10.8	0.4	<0.05	1.3	7.50	34.7	0.03	<1	0.6	49.0	<10	<2
072239	Soil	0.51	8.4	0.4	<0.05	0.8	7.44	25.8	0.03	<1	0.4	36.9	<10	<2



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**Project:** None Given  
**Report Date:** September 28, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000274.1

Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
072240	Soil	0.27	24.52	21.05	55.6	53	22.5	10.7	439	2.88	20.9	1.1	4.1	7.5	76.9	0.11	0.54	0.37	11	1.11	0.040
071681	Soil	0.52	13.59	16.81	42.2	68	10.1	5.9	142	2.26	19.7	0.5	1.5	2.9	16.0	0.15	0.38	0.32	18	0.13	0.030
071682	Soil	0.33	32.55	20.93	45.7	211	23.4	9.6	391	2.45	18.4	15.0	3.8	1.7	170.7	0.16	0.53	0.35	9	2.46	0.058
071683	Soil	0.32	15.39	14.92	73.8	40	27.4	11.6	351	3.29	31.1	1.3	2.5	6.1	25.9	0.10	0.46	0.27	11	0.28	0.033
071684	Soil	0.26	30.19	20.07	87.7	73	33.8	13.2	313	3.62	27.0	1.2	4.1	8.4	35.2	0.07	0.50	0.34	12	0.45	0.047
071685	Soil	0.29	27.49	22.42	69.4	62	27.6	12.2	451	3.23	36.7	1.3	4.5	7.5	61.4	0.11	0.56	0.37	11	0.71	0.041
071686	Soil	0.25	27.64	18.77	66.0	52	26.1	11.6	418	2.96	34.9	1.1	5.0	4.8	80.2	0.09	0.52	0.31	10	1.25	0.042
071687	Soil	0.35	27.26	24.63	67.2	81	28.9	13.1	516	3.30	35.9	1.2	4.2	6.3	59.4	0.12	0.50	0.43	11	0.75	0.041
071688	Soil	0.35	19.15	18.24	69.2	54	28.2	10.9	341	3.39	23.1	0.8	5.1	7.7	28.7	0.07	0.38	0.32	13	0.28	0.026
071689	Soil	0.37	27.95	20.85	85.7	105	29.1	11.4	413	3.20	31.8	1.5	7.1	4.3	75.5	0.16	0.51	0.35	12	1.06	0.046
071690	Soil	0.32	23.52	18.34	49.9	81	18.7	10.1	328	2.27	16.1	1.4	1.9	3.6	48.6	0.09	0.35	0.28	9	0.44	0.041
071691	Soil	0.43	31.83	22.19	76.4	119	29.8	12.5	506	3.07	33.0	2.3	3.9	4.0	85.5	0.18	0.55	0.34	12	1.01	0.048
071692	Soil	0.33	30.86	21.98	73.4	94	28.8	11.9	548	2.98	37.5	1.9	4.4	5.0	88.9	0.10	0.61	0.32	11	1.09	0.053
071693	Soil	0.32	12.78	16.51	46.4	44	15.5	6.3	161	2.32	19.8	0.9	2.6	4.5	16.1	0.15	0.27	0.27	11	0.09	0.035
071694	Soil	0.38	16.57	17.72	38.3	106	17.1	7.3	193	2.67	15.8	0.8	1.9	4.7	81.3	0.06	0.54	0.38	12	0.75	0.035
071695	Soil	0.33	33.59	27.44	66.6	111	35.3	14.3	395	3.39	21.4	1.1	4.3	9.7	47.1	0.08	2.20	0.39	10	0.45	0.045
071696	Soil	0.29	26.53	18.79	61.7	74	27.1	11.7	374	2.99	23.4	0.7	3.2	9.4	51.6	0.07	0.62	0.28	11	0.71	0.030
071697	Soil	0.32	29.39	21.30	77.7	76	30.2	13.0	406	3.37	25.4	0.7	4.3	11.9	98.5	0.06	0.62	0.33	12	1.62	0.044
071698	Soil	0.53	33.92	23.87	82.4	71	33.2	13.8	467	3.42	27.2	0.7	3.8	11.8	117.9	0.07	0.64	0.33	13	1.98	0.045
071699	Soil	0.28	31.20	20.22	71.0	77	31.0	12.4	433	3.09	22.6	1.4	12.0	8.1	102.1	0.06	0.58	0.32	11	1.10	0.046
071700	Soil	0.21	22.15	18.11	59.5	55	23.4	10.0	337	2.54	16.9	0.6	2.6	7.3	101.9	0.05	0.44	0.25	9	2.12	0.040
071971	Soil	0.30	19.79	12.81	57.2	22	25.4	8.5	200	2.81	18.6	0.5	1.7	8.0	15.1	0.01	0.40	0.23	12	0.14	0.019
071972	Soil	0.23	8.50	9.62	32.7	18	13.0	5.0	127	1.92	8.9	0.3	2.0	5.9	6.3	0.01	0.22	0.16	14	0.03	0.012
071973	Soil	0.49	25.73	17.58	62.8	12	23.3	9.4	159	3.54	43.4	0.5	1.5	8.7	4.5	0.06	0.46	0.39	14	0.02	0.023
071974	Soil	0.36	17.43	16.52	46.5	98	17.3	7.0	188	1.76	3.9	0.9	0.4	4.2	341.5	0.09	0.22	0.27	3	9.68	0.046
071975	Soil	0.34	15.06	21.36	51.3	64	16.4	8.0	318	2.72	6.5	1.0	16.9	6.6	44.8	0.10	0.51	0.29	7	0.47	0.021
071976	Soil	0.62	58.04	46.82	105.8	120	40.7	21.0	730	4.44	66.9	1.1	8.3	10.0	40.6	0.13	1.33	0.61	10	0.54	0.067
071977	Soil	0.81	41.33	46.72	91.4	221	31.6	18.2	802	4.13	51.7	1.4	6.1	7.3	53.5	0.34	1.09	0.60	10	0.65	0.064
071978	Soil	0.41	37.37	27.80	101.1	83	37.7	15.5	502	4.06	51.5	1.3	6.9	9.9	28.7	0.07	0.73	0.41	13	0.40	0.051
071979	Soil	0.37	35.77	26.01	86.8	80	34.7	14.8	535	3.68	46.2	1.9	5.1	7.1	58.1	0.15	0.58	0.40	13	0.73	0.051



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**Project:** None Given  
**Report Date:** September 28, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000274.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
072240	Soil	21.9	16.9	0.41	46.9	0.004	<1	1.24	0.005	0.07	<0.1	2.1	0.05	<0.02	18	0.4	0.04	3.8	0.68	<0.1	0.04
071681	Soil	17.3	10.1	0.15	38.9	0.005	<1	0.86	0.005	0.04	0.1	1.0	0.05	<0.02	15	0.2	0.03	3.9	0.66	<0.1	<0.02
071682	Soil	11.4	15.5	0.35	46.4	0.006	2	1.15	0.005	0.03	<0.1	1.7	0.04	0.07	59	0.8	0.03	2.9	0.59	<0.1	0.03
071683	Soil	19.7	20.4	0.60	23.0	0.002	<1	1.38	0.002	0.02	0.2	1.6	0.02	<0.02	<5	0.2	0.03	4.5	0.53	<0.1	0.03
071684	Soil	16.9	24.8	0.75	26.8	0.002	<1	1.71	0.003	0.04	<0.1	2.1	0.02	0.03	15	0.4	0.04	4.7	0.82	<0.1	0.08
071685	Soil	16.2	19.1	0.54	56.2	0.002	1	1.52	0.006	0.07	<0.1	2.1	0.04	0.03	21	0.4	0.04	4.5	0.68	<0.1	0.09
071686	Soil	11.9	18.2	0.48	63.4	0.002	1	1.49	0.007	0.07	<0.1	1.8	0.03	0.05	28	0.4	0.03	3.9	0.65	<0.1	0.07
071687	Soil	17.6	20.9	0.50	65.5	0.002	<1	1.59	0.006	0.06	<0.1	2.2	0.04	0.03	26	0.5	0.04	4.3	0.78	<0.1	0.08
071688	Soil	21.9	23.3	0.63	56.5	0.001	<1	1.75	0.004	0.05	<0.1	1.8	0.05	<0.02	16	0.3	0.03	4.7	0.93	<0.1	0.07
071689	Soil	15.3	21.7	0.55	54.4	0.003	<1	1.56	0.006	0.06	0.2	1.8	0.03	0.04	27	0.6	0.04	4.6	0.70	<0.1	0.05
071690	Soil	12.3	12.6	0.25	51.5	0.005	<1	1.05	0.018	0.04	<0.1	1.8	0.03	0.02	17	0.2	0.03	3.1	0.71	<0.1	0.03
071691	Soil	15.3	20.8	0.45	73.7	0.003	<1	1.48	0.008	0.07	<0.1	2.0	0.04	0.03	33	0.5	0.06	4.2	0.93	<0.1	0.06
071692	Soil	18.1	18.3	0.44	68.0	0.003	1	1.37	0.008	0.07	<0.1	2.2	0.03	0.03	34	0.5	0.04	4.5	0.81	<0.1	0.05
071693	Soil	15.8	14.2	0.30	40.9	0.005	<1	1.10	0.008	0.05	<0.1	1.3	0.04	0.03	20	0.5	0.02	4.1	0.90	<0.1	0.03
071694	Soil	17.5	12.1	0.21	48.1	0.003	<1	0.97	0.006	0.03	<0.1	1.4	0.05	0.02	20	0.3	0.05	4.2	0.72	<0.1	0.03
071695	Soil	25.8	14.6	0.33	52.7	0.002	1	1.22	0.005	0.05	<0.1	3.6	0.06	<0.02	47	0.3	0.02	3.4	1.34	<0.1	0.04
071696	Soil	21.8	17.7	0.41	63.2	0.002	1	1.49	0.009	0.10	<0.1	2.3	0.05	<0.02	23	0.1	0.04	4.0	0.78	<0.1	0.09
071697	Soil	26.9	20.6	0.59	48.9	0.002	2	1.58	0.005	0.12	<0.1	2.5	0.05	<0.02	18	0.3	0.03	4.6	0.88	<0.1	0.11
071698	Soil	27.9	22.9	0.59	53.8	0.003	2	1.65	0.006	0.15	<0.1	2.6	0.06	<0.02	16	0.2	0.05	5.3	0.96	<0.1	0.10
071699	Soil	22.8	20.7	0.53	76.4	0.002	1	1.60	0.008	0.14	<0.1	2.4	0.07	0.04	21	0.8	0.03	4.3	2.39	<0.1	0.07
071700	Soil	17.8	15.6	0.42	52.8	0.003	2	1.18	0.006	0.08	<0.1	1.9	0.03	0.03	13	0.3	0.03	3.6	0.68	<0.1	0.07
071971	Soil	27.7	18.4	0.45	44.2	0.002	<1	1.47	0.003	0.07	<0.1	1.5	0.05	<0.02	11	0.2	0.03	4.6	0.61	<0.1	0.04
071972	Soil	26.1	15.7	0.36	60.4	0.005	<1	1.29	0.006	0.06	<0.1	1.4	0.05	<0.02	<5	<0.1	<0.02	4.9	0.57	<0.1	0.02
071973	Soil	29.8	18.8	0.45	33.8	0.002	<1	1.53	0.005	0.04	<0.1	1.6	0.05	<0.02	11	0.1	0.07	5.4	0.74	<0.1	0.05
071974	Soil	11.8	3.8	0.09	49.4	0.001	2	0.31	0.004	0.04	<0.1	2.3	0.07	<0.02	51	0.4	0.04	0.7	0.73	<0.1	0.03
071975	Soil	18.0	8.3	0.15	38.0	0.001	<1	0.80	0.007	0.04	<0.1	2.1	0.04	<0.02	14	0.2	0.02	2.0	0.85	<0.1	0.04
071976	Soil	21.4	20.6	0.61	20.5	0.002	<1	1.36	0.004	0.04	<0.1	3.3	0.04	0.03	21	0.3	0.11	4.2	1.04	<0.1	0.07
071977	Soil	21.2	21.3	0.52	33.7	0.004	<1	1.33	0.005	0.04	<0.1	3.3	0.03	0.03	23	0.7	0.11	3.9	1.05	<0.1	0.08
071978	Soil	24.7	26.9	0.72	44.7	0.002	<1	1.80	0.005	0.05	0.2	2.6	0.03	<0.02	16	0.5	0.09	5.6	1.36	<0.1	0.06
071979	Soil	21.8	25.3	0.62	57.2	0.002	1	1.73	0.007	0.07	<0.1	2.3	0.04	<0.02	20	0.4	0.08	5.3	0.78	<0.1	0.06



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**Project:** None Given  
**Report Date:** September 28, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000274.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
072240	Soil	0.42	5.9	0.4	<0.05	2.1	6.30	41.7	<0.02	<1	0.3	36.0	<10	<2
071681	Soil	0.59	8.8	0.6	<0.05	0.2	2.41	32.3	<0.02	1	0.2	20.3	<10	<2
071682	Soil	0.51	4.0	0.3	<0.05	1.2	8.55	22.6	<0.02	<1	0.5	31.2	<10	<2
071683	Soil	0.13	4.9	0.2	<0.05	1.0	2.50	38.3	<0.02	<1	<0.1	43.6	<10	<2
071684	Soil	0.09	3.0	0.2	<0.05	2.6	5.08	31.9	0.02	<1	0.2	54.4	<10	<2
071685	Soil	0.20	4.7	0.2	<0.05	3.6	4.84	30.2	<0.02	<1	0.3	42.3	<10	<2
071686	Soil	0.23	4.6	0.2	<0.05	3.8	4.41	21.2	<0.02	<1	0.3	36.0	<10	<2
071687	Soil	0.24	5.3	0.2	<0.05	3.0	5.24	32.6	<0.02	1	0.4	40.9	<10	<2
071688	Soil	0.10	6.7	0.6	<0.05	2.3	4.11	40.9	<0.02	<1	0.3	53.6	<10	<2
071689	Soil	0.26	5.8	0.5	<0.05	2.2	4.78	30.4	<0.02	<1	0.3	43.3	<10	<2
071690	Soil	0.27	3.6	0.4	<0.05	1.4	5.44	22.6	<0.02	<1	0.3	24.1	<10	<2
071691	Soil	0.34	6.7	0.7	<0.05	1.9	5.94	29.0	<0.02	<1	0.5	37.8	<10	<2
071692	Soil	0.29	5.5	0.5	<0.05	2.4	7.32	33.0	<0.02	<1	0.5	38.2	<10	<2
071693	Soil	0.42	6.4	0.3	<0.05	1.3	2.40	29.5	<0.02	1	0.1	26.0	<10	<2
071694	Soil	0.43	5.0	0.3	<0.05	1.6	4.54	30.8	<0.02	<1	0.2	21.4	<10	<2
071695	Soil	0.23	5.5	0.4	<0.05	2.0	12.35	49.3	0.03	<1	0.6	33.9	<10	<2
071696	Soil	0.22	7.2	0.3	<0.05	4.6	5.66	41.0	<0.02	<1	0.3	35.9	<10	<2
071697	Soil	0.18	7.3	0.4	<0.05	5.3	6.86	49.6	0.02	<1	0.3	45.6	<10	<2
071698	Soil	0.16	6.8	0.8	<0.05	6.1	6.65	51.5	0.02	<1	0.6	45.5	<10	<2
071699	Soil	0.26	8.0	0.3	<0.05	4.0	6.13	41.5	0.02	<1	0.3	45.5	<10	<2
071700	Soil	0.22	5.6	0.2	<0.05	3.5	4.78	32.2	<0.02	<1	0.4	34.7	<10	<2
071971	Soil	0.16	6.6	0.4	<0.05	2.6	2.94	47.5	<0.02	<1	0.5	40.2	<10	<2
071972	Soil	0.32	6.8	0.3	<0.05	1.5	1.68	47.3	<0.02	<1	0.2	28.0	<10	<2
071973	Soil	0.16	5.9	0.3	<0.05	2.8	2.05	51.4	0.02	<1	0.2	45.2	<10	<2
071974	Soil	0.12	4.4	0.4	<0.05	1.5	7.27	23.2	0.03	<1	0.4	3.4	<10	<2
071975	Soil	0.22	7.5	0.6	<0.05	1.4	4.59	34.4	0.04	<1	0.2	15.5	<10	<2
071976	Soil	0.12	2.8	0.3	<0.05	3.6	8.06	39.9	0.03	<1	0.2	45.7	<10	<2
071977	Soil	0.20	4.4	0.6	<0.05	2.2	5.67	40.2	0.03	<1	0.2	37.9	<10	<2
071978	Soil	0.10	3.7	0.2	<0.05	3.2	5.03	46.6	<0.02	<1	0.2	58.7	<10	<2
071979	Soil	0.18	4.7	0.5	<0.05	2.5	5.89	38.4	0.02	1	0.6	45.8	<10	<2



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**Project:** None Given  
**Report Date:** September 28, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000274.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
071980	Soil	0.39	37.26	26.61	87.1	82	36.1	16.2	589	3.91	49.7	0.8	5.6	10.6	41.9	0.10	0.67	0.41	14	0.42	0.051
072371	Soil	0.29	25.21	20.85	65.4	74	26.7	11.3	387	3.01	24.5	0.7	4.2	8.0	44.5	0.06	0.65	0.31	11	0.50	0.046
072372	Soil	0.29	26.00	22.70	68.5	83	28.1	12.3	479	3.12	21.8	0.9	2.7	9.6	57.3	0.07	0.57	0.33	12	0.71	0.037
072373	Soil	0.39	19.31	19.94	56.4	57	21.8	10.6	558	2.60	18.7	1.1	3.6	5.6	73.0	0.09	0.48	0.26	9	0.90	0.036
072374	Soil	0.26	27.39	18.60	55.3	82	23.1	10.3	373	2.59	18.5	1.6	3.2	3.9	99.3	0.11	0.42	0.29	10	1.35	0.048
072375	Soil	0.32	24.51	22.52	53.5	70	24.2	12.6	469	3.07	22.4	1.1	2.1	5.3	66.3	0.13	0.38	0.34	13	0.84	0.036
072376	Soil	0.28	11.75	25.09	67.4	31	20.9	8.6	367	2.76	11.0	0.6	<0.2	5.3	20.7	0.04	0.36	0.36	15	0.24	0.026
072377	Soil	0.30	20.89	21.04	49.6	171	23.3	9.2	347	2.91	11.6	0.8	<0.2	2.2	78.5	0.08	2.03	0.33	10	1.55	0.044
072378	Soil	2.46	27.34	36.73	72.3	100	33.2	26.8	335	3.57	50.1	0.8	2.6	9.1	15.1	0.09	3.71	0.64	11	0.07	0.025
072379	Soil	0.37	13.49	25.56	59.5	55	16.4	10.8	531	3.13	26.7	0.7	0.8	5.5	34.3	0.04	0.46	0.32	15	0.34	0.027
072380	Soil	0.34	19.22	19.35	63.6	65	28.6	12.1	340	3.50	19.0	1.5	2.8	6.4	29.4	0.01	0.27	0.42	15	0.26	0.031
071521	Soil	0.35	30.11	20.56	66.5	105	32.5	12.1	381	3.19	28.3	2.5	2.9	6.1	50.6	0.12	0.46	0.32	11	0.68	0.040
071522	Soil	0.39	34.15	24.36	88.8	79	37.9	16.2	611	3.76	39.3	2.0	3.7	7.2	40.7	0.10	0.54	0.38	12	0.51	0.054
071523	Soil	0.33	12.48	10.43	66.8	37	24.2	8.4	415	2.68	21.3	0.4	<0.2	5.1	9.8	0.09	0.30	0.21	11	0.09	0.030
071524	Soil	0.45	19.97	20.94	87.6	30	33.9	16.2	718	3.85	37.4	0.6	7.3	7.4	8.8	0.10	0.55	0.33	13	0.09	0.031
071525	Soil	0.33	25.18	23.24	81.9	48	35.5	14.6	576	3.53	31.9	1.0	1.2	7.5	23.9	0.08	0.49	0.31	11	0.31	0.049
071526	Soil	0.32	12.14	17.79	33.9	139	9.7	3.5	79	1.43	41.2	0.4	2.3	1.6	3.4	0.15	0.34	0.24	8	<0.01	0.023
071527	Soil	0.47	26.63	50.95	136.3	365	30.2	12.9	441	3.13	372.3	1.3	13.7	6.9	26.3	1.41	0.97	1.31	10	0.32	0.037
071528	Soil	0.42	32.51	30.19	103.3	54	35.1	14.6	472	3.55	69.1	1.4	1.6	6.4	20.7	0.47	0.37	0.48	13	0.21	0.042
071529	Soil	0.38	30.31	30.03	87.0	59	35.0	13.0	484	3.43	34.2	1.7	3.5	6.0	35.2	0.20	0.42	0.40	12	0.71	0.045
071530	Soil	0.45	30.92	35.72	116.7	75	34.4	14.1	391	3.51	43.7	1.9	2.8	7.6	22.3	0.54	0.59	0.48	11	0.35	0.046
072331	Soil	0.22	14.62	14.72	41.3	74	17.3	8.6	324	2.04	14.0	0.8	<0.2	4.2	46.9	0.04	0.30	0.22	9	0.54	0.038
072332	Soil	0.29	29.03	22.15	71.0	38	32.2	13.2	374	3.35	22.5	0.5	<0.2	11.1	50.2	0.05	0.62	0.33	12	0.79	0.030
072333	Soil	0.38	28.08	22.32	66.8	69	30.6	12.5	360	3.17	20.9	0.8	<0.2	9.0	31.3	0.07	0.59	0.29	12	0.43	0.028
072334	Soil	0.21	24.98	17.11	49.4	94	20.7	8.8	185	2.38	17.9	1.9	<0.2	2.4	100.6	0.16	0.38	0.26	9	1.29	0.051
072335	Soil	0.21	27.78	18.42	64.3	67	27.4	11.2	282	2.55	12.7	0.8	0.7	7.1	76.9	0.05	0.47	0.30	10	1.22	0.045
072336	Soil	0.30	30.75	17.93	76.3	230	28.8	11.4	720	2.22	36.2	1.9	20.1	1.9	67.2	0.27	0.39	0.24	8	0.95	0.056
072337	Soil	0.25	19.62	15.87	43.1	57	20.6	9.4	412	2.32	15.7	1.2	<0.2	3.7	85.4	0.07	0.39	0.24	9	1.19	0.030
072338	Soil	0.38	13.36	15.49	50.4	15	22.2	8.8	200	2.91	16.8	0.5	<0.2	6.8	12.0	0.01	0.28	0.21	15	0.09	0.015
072339	Soil	0.26	22.91	17.40	57.4	24	27.9	11.6	343	2.92	16.0	0.5	<0.2	9.5	49.2	0.03	0.31	0.25	13	0.91	0.023



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**Project:** None Given  
**Report Date:** September 28, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
071980	Soil	26.2	25.9	0.69	55.6	0.002	1	1.83	0.006	0.10	<0.1	2.7	0.04	<0.02	19	0.3	0.07	5.3	0.86	<0.1	0.10
072371	Soil	24.7	18.7	0.41	61.7	0.003	<1	1.36	0.005	0.10	<0.1	2.6	0.05	<0.02	18	0.5	0.04	4.1	0.66	<0.1	0.06
072372	Soil	26.7	20.3	0.43	72.8	0.004	2	1.52	0.007	0.14	<0.1	2.8	0.07	<0.02	14	0.4	0.06	4.4	0.86	<0.1	0.06
072373	Soil	20.7	17.2	0.33	57.3	0.003	1	1.09	0.007	0.07	0.1	2.2	0.04	0.02	11	0.7	0.04	3.4	0.58	<0.1	0.04
072374	Soil	15.0	15.5	0.30	67.6	0.002	1	1.24	0.009	0.07	<0.1	2.3	0.05	0.04	37	0.7	0.04	3.4	0.76	<0.1	0.05
072375	Soil	19.8	19.6	0.39	80.9	0.004	<1	1.43	0.007	0.08	<0.1	2.3	0.06	0.02	21	0.6	0.05	4.3	0.78	<0.1	0.04
072376	Soil	18.3	17.9	0.35	98.6	0.003	<1	1.49	0.005	0.05	0.1	1.7	0.07	<0.02	7	0.2	0.03	4.0	0.94	<0.1	0.03
072377	Soil	13.3	12.2	0.20	73.0	0.002	<1	0.97	0.005	0.04	<0.1	2.0	0.05	0.04	48	0.4	0.03	2.5	0.66	<0.1	<0.02
072378	Soil	29.3	20.8	0.41	64.6	0.010	<1	1.36	0.006	0.05	<0.1	2.5	0.10	<0.02	<5	<0.1	0.08	4.1	1.89	<0.1	<0.02
072379	Soil	15.2	14.5	0.42	56.6	0.009	<1	1.05	0.010	0.05	0.2	1.7	0.05	<0.02	11	0.4	0.04	3.4	0.89	<0.1	<0.02
072380	Soil	19.4	23.3	0.63	49.1	0.006	<1	1.62	0.004	0.03	0.1	2.4	0.05	<0.02	20	0.3	0.04	4.5	1.01	<0.1	0.03
071521	Soil	13.0	21.7	0.59	36.7	0.002	<1	1.51	0.007	0.04	<0.1	1.9	0.02	0.03	19	0.6	0.04	4.1	0.65	<0.1	0.06
071522	Soil	15.6	25.3	0.71	37.4	0.001	<1	1.68	0.004	0.04	<0.1	2.3	0.03	0.03	23	0.4	0.03	4.6	0.89	<0.1	0.07
071523	Soil	19.1	18.6	0.53	21.5	0.002	<1	1.15	0.002	0.03	0.2	0.9	<0.02	<0.02	8	0.2	0.02	4.1	0.40	<0.1	<0.02
071524	Soil	23.2	25.8	0.68	28.2	0.001	<1	1.62	0.003	0.04	<0.1	1.4	0.03	<0.02	<5	0.2	0.05	4.8	0.47	<0.1	0.05
071525	Soil	18.7	23.2	0.66	19.6	0.002	<1	1.48	0.003	0.03	<0.1	2.1	<0.02	<0.02	14	0.2	0.06	4.2	0.53	<0.1	0.05
071526	Soil	7.8	7.3	0.12	20.8	0.003	<1	0.49	0.013	0.04	0.1	0.5	0.05	<0.02	12	0.2	0.04	2.0	0.85	<0.1	<0.02
071527	Soil	12.1	15.7	0.34	53.7	0.001	<1	1.04	0.006	0.05	0.3	1.7	0.10	0.03	47	0.4	0.08	3.3	2.20	<0.1	0.04
071528	Soil	12.9	24.7	0.61	67.9	0.001	<1	1.79	0.006	0.06	0.2	1.7	0.05	0.03	27	0.5	0.08	5.0	1.10	<0.1	0.08
071529	Soil	11.4	23.8	0.71	46.4	0.001	<1	1.66	0.005	0.06	0.1	1.8	0.05	0.04	38	0.6	0.05	4.6	0.98	<0.1	0.08
071530	Soil	11.9	20.9	0.50	52.1	0.001	<1	1.38	0.004	0.07	0.1	1.8	0.06	0.04	29	0.5	0.06	4.0	1.23	<0.1	0.08
072331	Soil	13.1	13.1	0.29	57.5	0.003	<1	1.09	0.012	0.06	<0.1	1.5	0.03	0.02	12	0.4	0.03	2.8	0.51	<0.1	0.04
072332	Soil	27.3	21.4	0.50	63.1	0.002	1	1.59	0.005	0.12	<0.1	2.9	0.06	<0.02	15	0.2	0.03	4.1	0.75	<0.1	0.10
072333	Soil	27.2	21.3	0.46	61.4	0.002	1	1.56	0.006	0.11	<0.1	2.6	0.06	<0.02	11	0.4	0.06	3.9	0.80	<0.1	0.06
072334	Soil	10.0	14.7	0.32	73.8	0.003	2	1.15	0.009	0.07	<0.1	1.7	0.04	0.17	30	0.7	<0.02	3.0	0.62	<0.1	0.03
072335	Soil	17.7	17.9	0.43	58.6	0.002	1	1.33	0.006	0.09	<0.1	2.0	0.05	0.07	17	0.5	0.02	3.5	0.72	<0.1	0.07
072336	Soil	12.0	11.8	0.24	73.8	0.003	<1	1.02	0.013	0.04	0.1	2.0	0.05	0.06	44	0.6	0.04	2.3	1.72	<0.1	0.04
072337	Soil	13.0	14.4	0.31	52.9	0.003	<1	1.11	0.006	0.06	<0.1	1.7	0.04	0.04	24	0.4	0.04	2.8	0.50	<0.1	0.03
072338	Soil	19.8	18.1	0.41	64.8	0.006	<1	1.60	0.005	0.04	0.1	1.7	0.07	<0.02	7	0.1	<0.02	4.2	0.73	<0.1	0.04
072339	Soil	27.5	21.8	0.53	54.2	0.003	<1	1.62	0.007	0.11	<0.1	2.4	0.06	<0.02	10	<0.1	0.04	4.1	0.65	<0.1	0.07



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**Project:** None Given  
**Report Date:** September 28, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000274.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
071980	Soil	0.09	4.6	0.9	<0.05	4.8	5.65	45.8	0.02	<1	0.4	47.3	<10	<2
072371	Soil	0.25	6.9	0.5	<0.05	1.8	6.30	45.7	<0.02	<1	0.5	36.0	<10	<2
072372	Soil	0.31	9.0	0.9	<0.05	2.7	8.11	48.1	0.02	<1	0.4	38.4	<10	<2
072373	Soil	0.30	6.1	0.6	<0.05	1.7	6.09	41.5	0.02	<1	0.2	32.0	<10	<2
072374	Soil	0.36	7.4	0.5	<0.05	2.1	7.79	27.6	0.02	<1	0.4	31.1	<10	<2
072375	Soil	0.51	7.8	0.4	<0.05	1.5	5.59	36.9	0.02	<1	0.4	43.5	<10	<2
072376	Soil	0.45	9.1	0.4	<0.05	1.0	3.31	36.2	0.03	<1	0.6	29.1	<10	<2
072377	Soil	0.36	6.4	0.3	<0.05	0.7	7.49	26.7	0.02	<1	0.6	17.1	<10	<2
072378	Soil	0.50	7.2	0.6	<0.05	1.1	2.88	52.4	0.03	<1	0.2	50.1	<10	3
072379	Soil	0.40	8.8	0.4	<0.05	0.5	2.58	30.1	0.02	<1	0.3	32.5	<10	<2
072380	Soil	0.44	6.1	0.3	<0.05	1.1	4.26	35.5	<0.02	<1	0.4	58.0	<10	<2
071521	Soil	0.17	3.9	0.5	<0.05	2.5	5.14	23.4	<0.02	<1	0.3	45.1	<10	<2
071522	Soil	0.12	3.7	0.2	<0.05	2.8	5.67	29.7	0.02	<1	0.4	50.5	<10	<2
071523	Soil	0.09	3.9	0.3	<0.05	0.7	1.53	35.4	<0.02	<1	0.1	35.6	<10	<2
071524	Soil	0.09	3.5	0.7	<0.05	1.5	2.02	43.6	<0.02	<1	0.3	49.0	<10	<2
071525	Soil	0.10	2.7	0.2	<0.05	2.7	4.76	35.1	<0.02	<1	0.4	48.0	<10	<2
071526	Soil	0.13	3.9	0.3	<0.05	0.3	0.88	14.3	<0.02	<1	<0.1	7.6	<10	<2
071527	Soil	0.20	7.7	0.6	<0.05	1.4	4.05	21.5	0.03	<1	0.4	25.7	<10	<2
071528	Soil	0.21	5.3	0.4	<0.05	2.7	3.63	23.3	<0.02	<1	0.6	47.4	<10	<2
071529	Soil	0.17	4.8	0.3	<0.05	2.8	3.38	21.0	0.02	<1	0.2	46.9	<10	<2
071530	Soil	0.13	5.9	0.2	<0.05	2.4	3.05	21.1	0.03	<1	0.4	36.2	<10	<2
072331	Soil	0.29	4.9	0.2	<0.05	1.7	3.45	24.8	<0.02	<1	0.4	26.4	<10	<2
072332	Soil	0.24	6.9	0.2	<0.05	5.0	6.94	51.2	<0.02	<1	0.7	42.9	<10	<2
072333	Soil	0.28	8.0	1.2	<0.05	3.0	7.55	51.4	0.02	<1	0.4	40.3	<10	<2
072334	Soil	0.45	6.7	0.3	<0.05	1.9	6.02	18.4	<0.02	<1	0.3	32.2	<10	<2
072335	Soil	0.31	6.4	0.3	<0.05	3.6	5.54	33.8	<0.02	<1	0.5	37.1	<10	<2
072336	Soil	0.25	4.7	0.1	<0.05	1.6	12.64	19.9	<0.02	<1	0.5	24.7	<10	<2
072337	Soil	0.37	5.3	0.4	<0.05	1.7	5.13	25.3	<0.02	<1	0.4	30.2	<10	<2
072338	Soil	0.66	7.3	0.5	<0.05	2.1	2.79	39.1	0.03	<1	0.5	38.2	<10	<2
072339	Soil	0.32	6.8	0.4	<0.05	4.2	5.04	52.0	<0.02	<1	0.5	44.9	<10	<2



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**Project:** None Given  
**Report Date:** September 28, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000274.1

Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P		
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%
	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001		
072340	Soil	0.39	28.45	25.10	105.6	68	35.4	14.8	528	3.54	79.9	1.2	15.1	7.0	30.0	0.12	0.58	0.38	15	0.30	0.026	
072341	Soil	0.33	36.63	37.55	75.6	85	36.9	14.0	722	3.90	7.7	0.8	<0.2	11.0	13.7	0.02	0.35	0.36	8	0.09	0.024	
072342	Soil	0.27	9.37	15.68	48.6	39	15.9	6.1	129	2.43	19.9	0.6	0.7	4.6	29.8	0.07	0.19	0.27	14	0.32	0.020	
072343	Soil	0.49	32.63	24.57	99.9	259	37.0	16.8	761	3.19	73.8	1.7	10.7	4.5	61.0	0.21	0.52	0.31	11	0.80	0.060	
072344	Soil	0.41	32.07	22.76	87.2	238	35.7	16.4	719	2.93	67.4	1.5	19.1	2.8	69.6	0.28	0.53	0.31	10	0.98	0.059	
072345	Soil	0.24	20.88	15.45	46.0	64	20.9	8.5	299	2.29	16.3	1.6	0.9	3.4	82.0	0.10	0.42	0.23	8	1.23	0.036	
072346	Soil	0.38	65.38	26.99	76.5	324	46.8	17.2	985	3.03	49.6	4.8	8.4	2.7	84.9	0.17	0.54	0.34	10	1.20	0.070	
072347	Soil	0.38	16.69	16.15	51.9	17	23.0	8.3	168	3.43	17.6	0.5	<0.2	8.6	4.6	0.03	0.42	0.35	16	0.01	0.018	
072348	Soil	0.33	27.65	24.44	73.5	75	30.9	11.4	288	3.79	8.8	0.6	<0.2	10.5	11.1	0.03	0.29	0.34	10	0.05	0.023	
072349	Soil	0.48	10.44	12.89	52.0	19	16.0	8.5	186	2.47	11.0	0.4	<0.2	5.0	12.9	0.04	0.33	0.26	14	0.12	0.021	
072350	Soil	0.34	9.13	12.36	43.6	40	16.7	7.5	344	2.60	10.5	0.7	<0.2	4.1	18.0	0.03	0.30	0.27	13	0.19	0.026	
073631	Soil	0.38	27.10	22.17	85.0	182	24.5	8.7	177	4.54	169.7	0.6	3.7	7.2	4.8	0.21	0.74	0.60	11	<0.01	0.042	
073632	Soil	0.40	28.63	33.26	95.2	91	27.9	9.0	230	3.41	126.9	0.9	12.1	9.2	6.5	0.26	0.68	0.59	12	0.02	0.037	
073633	Soil	0.40	26.13	27.74	80.1	98	24.6	8.6	232	3.22	211.1	0.8	22.3	6.9	5.6	0.16	0.88	0.53	12	<0.01	0.031	
073634	Soil	0.43	30.14	33.64	91.7	75	29.2	13.2	378	3.33	51.3	0.9	14.3	10.9	6.3	0.25	0.61	0.44	11	0.03	0.031	
073636	Soil	0.39	45.57	48.47	102.0	150	40.9	25.0	881	3.14	11.3	4.8	<0.2	6.2	41.7	0.09	0.76	0.35	8	1.20	0.052	
073637	Soil	0.37	34.49	36.70	86.5	121	29.3	20.7	950	2.74	6.3	1.7	1.3	5.7	19.3	0.13	0.60	0.29	9	0.39	0.066	
073638	Soil	0.49	45.56	67.51	115.9	47	35.4	27.3	1146	4.00	8.5	1.3	0.8	11.0	6.7	0.07	0.71	0.49	12	0.11	0.052	
073639	Soil	0.29	42.94	53.76	105.1	124	36.9	25.4	844	4.24	5.4	1.2	0.8	15.5	10.7	<0.01	0.24	0.53	10	0.12	0.026	
073640	Soil	0.28	40.36	38.16	107.5	45	39.7	24.7	1165	4.34	4.4	1.3	0.4	17.9	11.7	0.02	0.28	0.46	11	0.15	0.035	
071821	Soil	0.33	25.54	31.79	75.6	157	37.0	16.8	548	3.74	94.2	1.3	3.0	6.6	52.5	0.08	2.07	0.40	13	1.06	0.040	
071822	Soil	0.63	22.30	36.81	72.2	67	25.0	12.9	470	4.77	59.6	0.7	4.2	5.9	14.7	0.08	0.72	0.53	18	0.16	0.042	
071823	Soil	0.66	22.90	38.87	73.6	80	25.1	13.1	530	4.83	59.5	0.8	18.2	6.0	15.8	0.07	0.71	0.54	18	0.17	0.043	
071824	Soil	0.66	14.57	17.78	74.6	52	20.2	9.5	387	3.05	23.0	0.6	0.8	4.7	15.6	0.08	0.44	0.37	18	0.12	0.030	
071825	Soil	0.50	29.09	32.90	71.9	110	28.7	15.8	556	3.79	44.6	1.2	2.4	5.6	24.1	0.10	0.59	0.51	13	0.23	0.058	
071826	Soil	0.35	16.93	12.43	58.3	30	28.3	8.6	243	3.52	35.0	0.5	2.9	7.7	3.3	<0.01	0.32	0.29	13	0.02	0.027	
071827	Soil	0.26	8.15	11.81	34.5	23	15.7	6.9	149	2.08	9.2	0.4	<0.2	5.4	7.3	<0.01	0.12	0.21	17	0.02	0.014	
071828	Soil	0.32	6.69	11.34	28.5	31	11.9	4.5	135	1.86	7.0	0.4	<0.2	5.8	5.1	<0.01	0.08	0.23	18	0.02	0.021	
071829	Soil	0.36	10.14	9.21	28.4	97	8.7	4.2	116	1.90	15.8	0.3	<0.2	4.1	3.4	0.04	0.35	0.22	17	0.02	0.028	
071830	Soil	0.28	29.94	19.69	81.6	113	33.1	12.9	543	3.36	26.7	1.6	2.0	6.9	47.8	0.15	0.40	0.29	12	0.72	0.047	



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**Project:** None Given  
**Report Date:** September 28, 2016

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**Part:** 2 of 3

# CERTIFICATE OF ANALYSIS

# WHI16000274.1

Method Analyte	AQ251																				
	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf	
Unit	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	
MDL	0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	
072340	Soil	21.7	23.2	0.53	65.4	0.004	<1	1.56	0.006	0.07	0.2	2.3	0.05	<0.02	11	0.2	0.06	4.2	1.53	<0.1	0.03
072341	Soil	35.4	16.5	0.34	31.4	<0.001	<1	1.11	0.003	0.03	<0.1	5.0	0.03	<0.02	44	0.1	0.03	2.5	0.53	<0.1	0.03
072342	Soil	19.0	14.0	0.26	48.8	0.003	<1	1.04	0.005	0.05	0.1	1.6	0.06	<0.02	9	0.1	<0.02	3.4	0.85	<0.1	<0.02
072343	Soil	17.3	19.0	0.38	68.9	0.004	<1	1.30	0.007	0.05	0.2	2.4	0.04	0.04	43	0.5	0.04	3.0	1.95	<0.1	0.07
072344	Soil	12.4	16.6	0.33	64.0	0.003	<1	1.23	0.007	0.05	0.1	2.1	0.04	0.05	52	0.5	0.05	2.9	1.79	<0.1	0.04
072345	Soil	12.0	14.4	0.33	54.3	0.003	2	1.11	0.007	0.07	<0.1	1.6	0.05	0.05	32	0.4	0.03	2.8	0.55	<0.1	0.05
072346	Soil	17.3	18.0	0.34	86.8	0.003	<1	1.27	0.008	0.05	0.1	2.6	0.04	0.06	68	0.9	0.04	2.9	1.58	<0.1	0.06
072347	Soil	37.2	18.4	0.35	62.2	0.001	<1	1.55	0.003	0.04	<0.1	1.3	0.05	<0.02	14	<0.1	0.03	4.8	0.68	<0.1	0.04
072348	Soil	34.2	19.0	0.38	47.0	<0.001	<1	1.43	0.004	0.03	<0.1	2.4	0.04	<0.02	24	<0.1	<0.02	3.4	0.78	<0.1	0.02
072349	Soil	19.5	13.3	0.27	39.5	0.006	<1	0.94	0.007	0.03	0.1	1.3	0.04	<0.02	7	0.2	<0.02	3.5	0.73	<0.1	<0.02
072350	Soil	20.1	15.9	0.33	41.9	0.005	<1	1.13	0.005	0.04	<0.1	1.4	0.04	<0.02	9	0.2	0.03	3.6	0.83	<0.1	<0.02
073631	Soil	18.5	19.2	0.22	22.8	0.001	<1	1.00	0.002	0.04	0.2	1.2	0.04	<0.02	20	0.3	0.08	3.3	0.68	<0.1	<0.02
073632	Soil	23.7	17.3	0.36	34.8	0.002	<1	1.17	0.003	0.07	0.2	1.5	0.06	<0.02	13	<0.1	0.06	3.5	0.89	<0.1	0.03
073633	Soil	19.7	15.6	0.29	24.9	0.003	<1	0.97	0.005	0.05	0.3	1.2	0.05	<0.02	19	<0.1	0.07	3.4	0.95	<0.1	0.02
073634	Soil	29.1	17.7	0.43	31.1	0.002	<1	1.23	0.003	0.07	0.1	1.5	0.04	<0.02	7	<0.1	0.04	3.4	0.83	<0.1	0.02
073636	Soil	15.2	14.1	0.34	68.5	0.002	2	1.46	0.009	0.06	<0.1	2.5	0.08	0.07	40	0.3	0.03	3.6	2.00	<0.1	0.15
073637	Soil	26.1	14.1	0.37	40.3	0.004	<1	1.28	0.010	0.05	<0.1	2.1	0.05	0.05	51	0.4	0.02	3.2	1.04	<0.1	0.07
073638	Soil	43.8	25.3	0.63	30.0	0.003	<1	1.78	0.004	0.04	<0.1	2.2	0.04	0.03	29	<0.1	0.02	4.5	1.29	<0.1	0.11
073639	Soil	21.3	23.3	0.85	24.0	<0.001	<1	2.08	0.002	0.04	<0.1	1.5	0.03	<0.02	10	<0.1	0.02	5.3	1.23	<0.1	0.21
073640	Soil	36.5	25.5	0.88	53.7	0.002	<1	2.00	0.002	0.04	<0.1	1.7	0.02	<0.02	5	<0.1	0.02	4.9	1.49	<0.1	0.30
071821	Soil	20.4	18.6	0.43	67.4	0.005	<1	1.29	0.005	0.04	<0.1	3.6	0.04	0.02	32	0.3	0.03	3.4	0.58	<0.1	0.03
071822	Soil	20.5	20.3	0.36	47.7	0.003	<1	1.40	0.004	0.04	0.1	1.6	0.06	<0.02	15	0.2	0.05	4.1	1.49	<0.1	<0.02
071823	Soil	20.6	19.7	0.36	46.8	0.004	<1	1.39	0.004	0.05	<0.1	1.6	0.05	<0.02	14	0.1	0.06	4.2	1.49	<0.1	<0.02
071824	Soil	23.5	16.5	0.33	39.4	0.006	<1	1.12	0.004	0.05	0.1	1.3	0.06	<0.02	11	0.1	0.05	4.2	1.09	<0.1	<0.02
071825	Soil	19.7	19.0	0.39	50.0	0.004	<1	1.41	0.006	0.05	<0.1	2.4	0.07	0.02	30	0.4	0.06	3.8	1.08	<0.1	<0.02
071826	Soil	24.2	23.8	0.61	19.3	0.002	<1	1.62	0.002	0.03	<0.1	1.3	0.02	<0.02	11	<0.1	0.04	4.4	0.56	<0.1	0.04
071827	Soil	19.2	17.0	0.37	55.9	0.014	<1	1.55	0.004	0.05	0.2	1.6	0.07	<0.02	9	<0.1	0.03	4.3	0.85	<0.1	0.05
071828	Soil	22.8	15.9	0.34	37.7	0.016	<1	1.24	0.003	0.05	0.2	1.5	0.09	<0.02	8	<0.1	<0.02	4.6	1.08	<0.1	<0.02
071829	Soil	17.2	8.1	0.12	20.0	0.008	<1	0.64	0.007	0.02	0.1	0.7	0.04	<0.02	12	<0.1	0.03	3.9	0.34	<0.1	<0.02
071830	Soil	17.4	21.3	0.60	36.8	0.002	<1	1.52	0.005	0.04	<0.1	2.1	<0.02	0.02	11	0.2	0.03	4.0	0.64	<0.1	0.07



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Project: None Given

Report Date: September 28, 2016

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# CERTIFICATE OF ANALYSIS

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Method Analyte Unit MDL		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
072340	Soil	0.31	7.7	0.3	<0.05	1.4	4.85	41.2	0.03	<1	0.5	49.4	<10	<2
072341	Soil	0.03	3.6	0.2	<0.05	0.9	10.51	71.1	0.03	<1	0.4	40.5	<10	<2
072342	Soil	0.36	7.8	0.5	<0.05	0.8	3.10	36.7	<0.02	<1	0.3	28.7	<10	<2
072343	Soil	0.20	6.1	0.6	<0.05	2.2	6.51	33.8	<0.02	<1	0.6	33.8	<10	<2
072344	Soil	0.30	5.3	0.7	<0.05	1.7	5.80	25.3	0.03	<1	0.5	29.9	<10	<2
072345	Soil	0.35	5.9	0.2	<0.05	1.9	4.81	22.3	<0.02	<1	0.5	30.1	<10	<2
072346	Soil	0.28	6.0	0.7	<0.05	1.9	20.36	27.7	0.03	<1	0.8	34.8	<10	<2
072347	Soil	0.23	5.1	0.3	<0.05	1.9	2.18	67.0	<0.02	<1	0.3	37.6	<10	<2
072348	Soil	0.09	6.1	1.0	<0.05	1.6	4.24	68.0	0.03	<1	0.6	49.4	<10	<2
072349	Soil	0.54	7.2	0.3	<0.05	0.9	1.88	37.0	<0.02	<1	0.3	29.6	<10	<2
072350	Soil	0.47	8.0	0.5	<0.05	0.3	2.52	39.3	0.03	<1	0.3	33.3	<10	<2
073631	Soil	0.20	5.5	0.2	<0.05	1.1	1.28	32.9	0.03	<1	<0.1	16.6	<10	<2
073632	Soil	0.14	5.4	0.4	<0.05	1.2	2.72	44.8	0.03	<1	0.3	27.5	<10	<2
073633	Soil	0.20	5.6	0.3	<0.05	0.7	1.81	36.4	0.02	<1	0.2	23.3	<10	<2
073634	Soil	0.10	4.8	0.8	<0.05	1.4	3.19	54.9	<0.02	<1	0.3	31.2	<10	<2
073636	Soil	0.33	6.7	0.2	<0.05	6.7	15.12	29.6	0.04	<1	0.8	19.6	<10	<2
073637	Soil	0.23	4.6	0.7	<0.05	3.4	12.31	51.6	0.02	<1	0.6	22.7	<10	<2
073638	Soil	0.09	3.6	0.3	<0.05	4.0	6.49	86.1	0.03	<1	0.5	45.7	<10	<2
073639	Soil	<0.02	2.3	6.1	<0.05	10.9	5.51	38.1	<0.02	<1	0.6	61.6	<10	<2
073640	Soil	<0.02	2.4	0.5	<0.05	16.2	6.43	68.7	<0.02	<1	0.6	63.8	<10	4
071821	Soil	0.39	4.2	0.3	<0.05	1.4	10.12	40.4	0.04	<1	0.8	35.0	<10	<2
071822	Soil	0.52	7.3	0.3	<0.05	0.7	3.04	40.5	0.04	<1	0.5	38.5	<10	<2
071823	Soil	0.48	7.3	1.0	<0.05	0.6	3.15	40.7	0.03	<1	0.3	38.7	<10	<2
071824	Soil	0.59	10.6	0.4	<0.05	0.4	3.21	47.0	0.02	<1	0.3	35.0	<10	<2
071825	Soil	0.44	6.5	0.6	<0.05	0.8	6.48	40.1	0.04	<1	0.5	43.1	<10	<2
071826	Soil	0.14	4.7	0.2	<0.05	2.0	2.07	45.2	<0.02	<1	0.4	46.8	<10	<2
071827	Soil	0.72	7.9	0.8	<0.05	2.6	2.46	37.4	<0.02	<1	0.4	29.5	<10	<2
071828	Soil	0.73	10.6	0.6	<0.05	1.0	2.28	44.5	<0.02	<1	0.3	24.3	<10	<2
071829	Soil	0.39	3.7	1.1	<0.05	0.6	1.15	32.6	<0.02	<1	0.1	10.5	<10	<2
071830	Soil	0.14	3.8	0.2	<0.05	2.6	6.06	32.9	<0.02	<1	0.3	45.0	<10	<2



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**Project:** None Given  
**Report Date:** September 28, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000274.1

Method Analyte	Unit	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
MDL		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
072261	Soil	0.48	39.52	37.77	85.3	114	37.1	17.6	555	4.32	39.0	1.0	4.7	11.3	32.6	0.08	0.81	0.51	12	0.37	0.042	
072262	Soil	0.63	48.71	51.95	94.0	44	46.3	22.7	557	4.94	88.0	1.2	7.3	12.3	14.5	0.08	0.81	0.65	15	0.12	0.054	
072263	Soil	0.62	16.71	17.39	62.4	31	21.2	8.2	221	4.15	42.9	0.5	2.5	7.4	5.0	0.05	0.51	0.42	19	0.02	0.024	
072264	Soil	0.38	39.33	22.74	81.7	90	32.7	13.6	528	3.16	40.5	2.6	3.9	6.4	56.6	0.13	0.68	0.36	11	1.22	0.053	
072265	Soil	0.40	42.92	27.52	108.9	81	44.7	18.3	533	4.34	64.3	1.5	14.1	8.3	19.1	0.10	0.63	0.44	15	0.37	0.048	
072266	Soil	0.33	35.56	23.78	97.8	66	41.7	17.2	618	3.98	41.0	0.8	5.5	9.6	30.6	0.10	0.51	0.41	14	0.59	0.055	
072267	Soil	0.23	32.01	20.65	64.9	95	27.4	10.8	440	2.76	32.2	2.2	3.9	4.1	78.1	0.10	0.43	0.29	10	1.11	0.045	
072268	Soil	0.63	15.86	19.69	61.6	68	21.6	8.5	232	3.68	47.6	0.5	0.3	6.7	7.0	0.05	0.42	0.38	17	0.03	0.030	
072269	Soil	0.60	15.80	25.65	58.6	36	18.9	9.5	362	4.42	28.3	0.5	0.4	6.6	5.7	0.08	0.55	0.43	23	0.02	0.039	
072270	Soil	0.32	26.79	21.34	63.6	17	32.1	10.5	287	3.43	27.5	0.6	2.2	10.3	9.7	0.01	0.50	0.34	15	0.04	0.013	
072241	Soil	0.37	63.44	28.92	83.5	673	37.5	9.5	493	3.77	42.6	6.5	17.8	5.1	43.4	0.16	0.80	0.42	12	0.61	0.120	
072242	Soil	0.26	16.53	18.41	74.5	17	31.1	11.5	341	3.58	29.2	0.6	1.2	8.9	17.5	0.02	0.27	0.33	18	0.11	0.011	
072243	Soil	0.35	22.49	25.37	77.9	84	39.6	13.6	474	3.71	24.7	1.2	1.9	6.7	35.3	0.04	0.34	0.39	18	0.36	0.046	
072244	Soil	0.35	24.30	23.73	83.1	50	35.1	16.1	594	3.78	14.5	1.1	0.9	8.3	34.2	0.07	0.29	0.41	17	0.30	0.031	
072245	Soil	0.51	36.97	63.96	102.0	67	38.7	11.4	162	4.76	15.5	0.6	0.5	11.9	14.0	0.06	0.53	0.52	10	0.03	0.047	
072246	Soil	0.34	31.76	28.26	104.2	20	33.1	15.1	577	4.14	13.6	0.8	0.5	11.8	12.0	0.08	1.59	0.41	5	0.07	0.026	
072247	Soil	0.45	14.13	21.26	73.7	30	27.8	9.6	192	3.95	9.1	0.5	1.5	9.3	20.9	0.05	0.25	0.43	17	0.20	0.102	
072248	Soil	0.31	30.60	24.29	69.2	29	34.0	13.9	460	3.73	27.2	0.7	1.7	10.5	20.7	0.04	0.52	0.41	12	0.21	0.059	
072249	Soil	0.61	44.23	28.46	98.4	186	157.7	146.6	2634	2.54	10.6	3.9	2.3	5.5	79.2	0.43	0.33	0.40	10	0.94	0.094	
072250	Soil	0.38	13.91	17.67	55.1	29	24.4	10.2	293	3.12	13.7	0.6	2.0	8.0	11.5	<0.01	0.27	0.31	15	0.09	0.017	
071981	Soil	0.34	34.76	27.27	78.8	84	36.8	15.7	644	3.81	43.3	1.0	4.1	6.2	50.6	0.10	0.44	0.41	13	0.66	0.041	
071982	Soil	0.40	36.39	28.69	89.0	84	36.7	17.1	654	4.02	42.5	0.8	4.8	11.8	40.9	0.07	0.55	0.46	14	0.36	0.048	
071983	Soil	0.39	37.35	28.14	88.5	78	37.6	16.5	581	3.90	44.1	1.0	4.9	11.1	33.4	0.07	0.57	0.40	13	0.31	0.051	
071984	Soil	0.38	29.88	25.34	74.7	74	32.5	14.2	519	3.46	34.0	1.2	4.2	7.4	57.3	0.11	0.54	0.35	11	0.65	0.042	
071985	Soil	0.31	32.99	26.23	75.1	95	32.3	14.1	495	3.47	37.7	1.4	3.8	6.8	58.0	0.09	0.51	0.38	12	0.69	0.047	
071986	Soil	0.35	26.30	23.81	65.3	82	29.9	12.5	487	3.02	21.2	1.5	2.1	5.8	92.2	0.07	0.51	0.34	9	1.12	0.052	
071987	Soil	0.34	35.58	27.83	84.6	91	36.5	15.5	528	3.65	27.2	0.7	3.3	10.9	53.2	0.07	0.50	0.39	13	0.76	0.050	
071988	Soil	0.36	30.63	25.54	78.1	74	34.1	14.4	502	3.42	26.1	0.8	3.3	10.0	41.0	0.07	0.52	0.37	12	0.58	0.055	
071989	Soil	0.20	15.05	17.06	53.4	24	24.0	9.6	351	2.70	18.2	0.9	0.4	8.6	19.4	<0.01	0.30	0.25	12	0.20	0.048	
071990	Soil	0.21	19.29	16.14	50.0	72	22.1	7.8	267	2.61	13.8	1.9	1.2	4.7	44.4	0.06	0.26	0.26	12	0.60	0.047	



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**Project:** None Given  
**Report Date:** September 28, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
072261	Soil	27.6	21.1	0.50	28.0	0.001	<1	1.48	0.004	0.05	<0.1	3.1	0.04	<0.02	27	0.3	0.07	4.0	0.73	<0.1	0.08
072262	Soil	30.2	24.1	0.55	40.7	0.003	<1	1.73	0.003	0.05	0.1	2.7	0.06	<0.02	14	0.2	0.07	4.1	1.08	<0.1	0.06
072263	Soil	27.9	19.6	0.42	25.4	0.005	<1	1.29	0.003	0.03	0.2	1.1	0.04	<0.02	8	0.1	0.07	5.3	0.74	<0.1	0.02
072264	Soil	16.4	20.7	0.50	47.6	0.003	<1	1.49	0.009	0.08	0.1	2.6	0.03	0.06	27	0.9	0.04	3.7	1.48	<0.1	0.08
072265	Soil	18.3	29.6	0.78	31.1	0.001	<1	1.95	0.004	0.04	0.1	2.6	0.03	0.03	23	0.6	0.08	5.4	2.25	<0.1	0.08
072266	Soil	24.6	27.3	0.73	36.8	0.002	<1	1.85	0.007	0.07	<0.1	2.4	0.03	0.03	13	0.2	0.05	5.0	0.88	<0.1	0.13
072267	Soil	12.3	18.2	0.44	58.4	0.003	<1	1.43	0.016	0.07	<0.1	1.8	0.04	0.04	21	0.6	0.05	3.7	0.65	<0.1	0.09
072268	Soil	24.5	17.5	0.34	37.8	0.004	<1	1.27	0.005	0.04	0.1	1.3	0.05	<0.02	18	0.2	0.05	4.8	1.15	<0.1	<0.02
072269	Soil	21.7	18.6	0.29	30.9	0.010	<1	1.18	0.004	0.04	0.1	1.4	0.04	<0.02	13	0.3	0.05	5.4	0.82	<0.1	<0.02
072270	Soil	34.3	22.5	0.51	64.8	0.002	<1	1.85	0.005	0.08	<0.1	1.9	0.06	<0.02	7	<0.1	0.04	4.4	0.84	<0.1	0.03
072241	Soil	24.3	19.6	0.30	80.5	0.004	<1	1.33	0.007	0.09	0.2	5.6	0.06	0.08	112	0.6	0.05	2.9	4.11	<0.1	0.12
072242	Soil	34.2	24.6	0.58	59.5	0.003	<1	1.93	0.005	0.06	<0.1	1.9	0.05	<0.02	7	<0.1	0.04	5.2	0.84	<0.1	0.03
072243	Soil	30.1	26.4	0.52	105.4	0.007	<1	1.87	0.007	0.08	0.1	3.7	0.07	0.02	25	0.2	0.03	4.7	1.21	<0.1	0.06
072244	Soil	27.9	26.2	0.60	59.1	0.006	<1	1.73	0.004	0.05	0.1	2.8	0.04	<0.02	16	0.2	0.04	5.0	1.04	<0.1	0.03
072245	Soil	39.3	21.6	0.58	26.0	<0.001	<1	1.50	0.006	0.03	<0.1	1.7	0.03	0.03	21	0.3	0.03	4.1	1.17	<0.1	0.04
072246	Soil	27.8	8.3	0.12	27.5	<0.001	<1	0.71	0.006	0.04	<0.1	4.0	0.04	<0.02	14	<0.1	<0.02	1.1	1.12	<0.1	0.02
072247	Soil	37.9	23.0	0.51	39.5	0.003	<1	1.67	0.004	0.04	<0.1	1.7	0.05	<0.02	12	0.2	0.04	5.2	1.29	<0.1	0.02
072248	Soil	33.6	21.4	0.49	60.6	0.002	<1	1.55	0.006	0.07	<0.1	2.5	0.04	<0.02	16	<0.1	0.04	4.0	0.66	<0.1	0.06
072249	Soil	15.8	18.6	0.41	64.6	0.005	2	6.15	0.008	0.03	<0.1	4.7	0.06	0.05	86	0.7	<0.02	2.6	1.71	<0.1	0.11
072250	Soil	23.4	18.8	0.46	43.9	0.004	1	1.41	0.003	0.04	0.1	1.9	0.05	<0.02	7	0.1	0.03	3.9	0.59	<0.1	<0.02
071981	Soil	15.8	23.6	0.59	60.9	0.002	2	1.71	0.006	0.06	<0.1	2.7	0.03	0.03	30	0.5	0.04	4.3	0.63	<0.1	0.08
071982	Soil	27.4	24.4	0.66	57.1	0.002	3	1.83	0.006	0.14	<0.1	2.8	0.05	<0.02	19	<0.1	0.07	4.7	0.84	<0.1	0.11
071983	Soil	24.2	23.6	0.64	35.9	0.002	<1	1.68	0.004	0.07	<0.1	2.3	0.03	<0.02	16	<0.1	0.05	4.5	0.64	<0.1	0.14
071984	Soil	16.5	21.6	0.56	47.1	0.002	1	1.50	0.005	0.05	<0.1	2.1	0.03	0.03	19	0.3	0.03	3.9	0.53	<0.1	0.10
071985	Soil	16.2	21.3	0.55	53.8	0.002	1	1.54	0.005	0.06	<0.1	2.2	0.03	0.03	25	0.2	0.05	4.0	0.58	<0.1	0.09
071986	Soil	15.2	16.7	0.43	50.4	0.002	1	1.23	0.007	0.06	<0.1	2.6	0.03	0.04	33	0.5	0.04	3.1	0.55	<0.1	0.08
071987	Soil	22.4	23.5	0.60	52.4	0.002	1	1.72	0.007	0.14	<0.1	2.8	0.05	0.03	23	0.1	0.04	4.3	0.86	<0.1	0.15
071988	Soil	21.8	20.6	0.54	43.7	0.002	<1	1.48	0.006	0.10	<0.1	2.7	0.04	0.03	26	<0.1	0.03	3.9	0.75	<0.1	0.11
071989	Soil	25.4	19.0	0.48	36.4	0.008	<1	1.37	0.008	0.09	<0.1	1.6	0.04	<0.02	7	<0.1	0.02	3.6	0.52	<0.1	0.03
071990	Soil	19.2	18.0	0.39	60.7	0.005	1	1.30	0.006	0.08	<0.1	2.3	0.04	0.03	32	0.3	0.02	3.5	0.62	<0.1	0.03



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**Project:** None Given  
**Report Date:** September 28, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
072261	Soil	0.15	4.9	0.8	<0.05	4.2	7.74	50.8	0.03	<1	0.6	47.8	<10	<2
072262	Soil	0.21	4.3	0.2	<0.05	4.1	5.22	59.4	0.03	<1	0.6	50.3	<10	<2
072263	Soil	0.55	5.2	1.7	<0.05	1.8	1.78	52.0	0.02	<1	0.2	32.8	<10	<2
072264	Soil	0.21	5.5	0.3	<0.05	4.7	7.31	29.6	0.04	<1	0.5	38.4	<10	<2
072265	Soil	0.11	3.6	1.0	<0.05	3.1	4.65	35.7	0.03	<1	0.4	59.4	<10	<2
072266	Soil	0.11	3.4	0.1	<0.05	5.6	4.46	45.9	0.03	<1	0.5	56.1	<10	<2
072267	Soil	0.26	3.9	5.0	<0.05	3.4	4.23	23.1	<0.02	<1	0.5	33.7	<10	<2
072268	Soil	0.53	7.4	0.7	<0.05	1.2	1.98	46.7	0.02	<1	0.2	31.8	<10	<2
072269	Soil	0.80	7.2	2.0	<0.05	0.9	2.19	42.1	0.02	<1	0.4	23.9	<10	<2
072270	Soil	0.14	6.9	0.3	<0.05	2.0	3.09	65.4	<0.02	<1	0.6	45.5	<10	<2
072241	Soil	0.32	9.1	2.5	<0.05	3.5	37.03	37.5	0.03	<1	1.5	25.8	<10	<2
072242	Soil	0.19	7.0	0.3	<0.05	2.8	2.81	65.2	0.03	<1	0.5	46.6	<10	<2
072243	Soil	0.43	10.2	4.0	<0.05	1.7	11.06	59.8	0.06	<1	1.2	46.7	<10	<2
072244	Soil	0.37	7.5	0.3	<0.05	1.6	5.65	52.7	0.03	<1	0.5	58.7	<10	<2
072245	Soil	0.04	4.0	0.8	<0.05	1.5	2.41	67.8	0.02	<1	0.3	60.8	<10	<2
072246	Soil	0.05	5.3	0.1	<0.05	0.8	4.52	56.5	0.04	<1	0.6	21.9	<10	<2
072247	Soil	0.33	9.3	2.5	<0.05	1.3	3.80	71.9	0.02	<1	0.3	78.1	<10	<2
072248	Soil	0.13	4.9	0.2	<0.05	2.8	5.17	64.0	<0.02	<1	0.5	43.4	<10	<2
072249	Soil	0.42	4.0	0.3	<0.05	4.1	27.97	50.6	0.02	<1	5.7	96.0	<10	<2
072250	Soil	0.36	5.9	0.5	<0.05	1.3	3.74	48.1	<0.02	<1	0.3	41.3	<10	<2
071981	Soil	0.19	4.1	1.9	<0.05	3.3	7.03	30.1	<0.02	<1	0.6	48.3	<10	<2
071982	Soil	0.12	5.0	0.6	<0.05	7.1	5.87	50.4	0.02	<1	0.5	53.6	<10	<2
071983	Soil	0.09	2.8	0.7	<0.05	5.9	5.39	45.7	0.02	<1	0.3	48.9	<10	<2
071984	Soil	0.19	3.4	0.5	<0.05	4.2	4.89	32.2	0.02	<1	0.5	43.0	<10	<2
071985	Soil	0.24	4.2	2.2	<0.05	3.6	6.36	30.1	0.02	<1	0.4	43.3	<10	<2
071986	Soil	0.22	4.2	0.4	<0.05	3.3	7.61	28.9	<0.02	<1	0.3	38.1	<10	<2
071987	Soil	0.17	5.9	2.5	<0.05	7.0	6.12	41.3	<0.02	<1	0.4	48.6	<10	<2
071988	Soil	0.21	5.6	0.6	<0.05	5.5	6.29	41.7	0.02	<1	0.3	43.0	<10	<2
071989	Soil	0.38	5.3	0.6	<0.05	2.2	4.21	49.5	<0.02	<1	0.4	42.4	<10	<2
071990	Soil	0.49	7.2	0.5	<0.05	1.5	7.09	34.5	0.02	<1	0.5	34.9	<10	<2



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**Project:** None Given  
**Report Date:** September 28, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
072351	Soil	0.28	25.58	18.77	76.2	65	30.4	11.9	399	3.35	49.3	0.8	26.9	7.6	16.2	0.05	0.53	0.30	11	0.18	0.043
072352	Soil	0.33	36.68	28.04	94.8	110	36.9	16.3	581	3.93	59.4	1.3	10.7	7.9	32.6	0.21	0.50	0.45	13	0.36	0.034
072353	Soil	0.30	23.58	25.13	76.4	123	31.4	11.5	492	3.17	28.7	0.9	3.5	7.7	31.9	0.14	0.32	0.28	8	0.32	0.054
072354	Soil	0.40	31.78	26.82	86.4	97	31.4	15.0	695	3.53	50.1	1.7	4.9	6.8	39.4	0.12	0.42	0.37	12	0.45	0.043
072355	Soil	0.40	42.38	39.86	108.5	72	45.7	18.2	426	4.51	18.6	1.0	1.6	11.5	39.4	0.07	0.36	0.59	11	0.36	0.063
072356	Soil	0.32	33.50	29.70	89.1	92	33.5	13.9	219	3.40	45.4	2.0	4.4	6.7	45.6	0.13	0.39	0.37	11	0.57	0.051
072357	Soil	0.31	10.53	24.38	46.2	60	16.7	8.8	280	2.78	7.2	1.0	<0.2	5.9	57.2	0.11	0.10	0.26	10	1.15	0.055
072358	Soil	0.25	26.76	22.24	66.6	21	37.0	14.1	329	3.53	28.0	0.7	1.4	12.3	6.7	0.02	0.40	0.36	12	0.03	0.015
072359	Soil	0.30	15.71	19.22	59.0	35	27.5	10.8	288	3.49	17.5	0.7	0.3	8.5	15.2	0.01	0.34	0.32	11	0.14	0.019
072360	Soil	0.24	39.23	26.35	65.5	163	34.4	14.0	241	3.06	12.0	2.1	0.4	4.2	81.5	0.14	0.73	0.42	9	1.04	0.062
072361	Soil	0.27	56.61	25.37	72.0	27	32.9	12.8	272	3.61	17.0	0.7	1.2	13.3	10.7	0.02	0.43	0.36	9	0.08	0.022
072362	Soil	0.31	21.10	23.71	54.7	74	31.2	11.8	350	3.43	15.4	1.0	0.5	11.1	24.2	0.02	0.45	0.32	10	0.23	0.026
072363	Soil	0.34	10.04	16.64	53.7	23	19.4	7.2	233	2.81	16.1	0.4	<0.2	7.1	8.5	0.02	0.25	0.29	15	0.06	0.014
072364	Soil	0.32	28.93	17.14	58.8	87	28.2	9.4	197	3.43	22.2	1.5	1.6	8.5	15.4	0.01	0.27	0.36	16	0.12	0.026
072365	Soil	0.44	25.41	21.03	84.8	80	25.2	11.2	233	3.93	35.5	0.6	1.2	7.5	8.0	0.18	0.51	0.47	13	0.06	0.045
072366	Soil	0.28	15.52	25.16	46.8	10	23.3	10.0	222	3.26	18.0	0.5	6.2	10.8	8.7	0.01	0.49	0.31	11	0.08	0.016
072367	Soil	0.50	44.32	49.25	95.9	60	49.5	20.4	609	4.56	11.5	1.1	0.9	13.4	13.8	0.03	0.65	0.58	7	0.11	0.029
072368	Soil	0.40	6.57	13.73	28.2	27	10.9	6.3	171	2.04	7.5	0.5	1.0	6.1	9.0	0.02	0.31	0.19	9	0.06	0.018
072369	Soil	0.36	37.68	27.97	74.8	74	37.5	14.5	529	3.75	15.2	0.7	3.3	11.9	50.9	0.03	0.45	0.36	10	0.43	0.031
072370	Soil	0.31	21.78	22.74	66.1	33	31.9	14.1	272	3.42	13.5	0.9	1.2	10.1	39.0	0.03	0.31	0.32	12	0.29	0.033



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**Project:** None Given  
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# CERTIFICATE OF ANALYSIS

WHI16000274.1

	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf		
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.1
072351	Soil	20.3	20.0	0.55	35.3	0.002	<1	1.42	0.004	0.05	0.1	2.0	0.02	<0.02	10	<0.1	0.04	3.6	0.61	<0.1	0.04		
072352	Soil	20.3	22.6	0.55	62.4	0.002	<1	1.65	0.005	0.07	0.1	2.7	0.03	<0.02	18	<0.1	0.06	4.1	0.99	<0.1	0.08		
072353	Soil	19.7	13.1	0.24	42.7	0.001	<1	0.87	0.004	0.05	<0.1	3.6	0.03	<0.02	29	<0.1	0.03	1.9	0.60	<0.1	0.05		
072354	Soil	17.5	20.3	0.45	65.5	0.002	<1	1.40	0.005	0.06	0.1	2.5	0.03	<0.02	31	0.1	0.07	3.7	0.74	<0.1	0.04		
072355	Soil	28.2	24.6	0.60	36.6	0.001	<1	1.69	0.004	0.04	<0.1	2.9	0.03	<0.02	26	0.2	0.05	4.4	0.56	<0.1	0.07		
072356	Soil	16.3	19.0	0.42	61.0	0.002	1	1.37	0.006	0.05	<0.1	2.8	0.03	0.07	26	0.6	0.04	3.6	0.71	<0.1	0.09		
072357	Soil	21.7	9.8	0.09	40.0	0.002	<1	0.98	0.004	0.03	<0.1	3.4	0.05	0.02	29	0.1	0.03	1.6	0.30	<0.1	0.03		
072358	Soil	35.2	22.5	0.53	62.3	0.001	<1	1.90	0.005	0.11	<0.1	2.1	0.05	<0.02	10	<0.1	0.04	4.2	0.63	<0.1	0.07		
072359	Soil	27.1	18.0	0.44	52.8	0.001	<1	1.46	0.003	0.05	<0.1	1.8	0.04	<0.02	12	<0.1	0.03	3.7	0.60	<0.1	0.02		
072360	Soil	11.7	13.2	0.32	67.2	0.003	1	1.19	0.010	0.04	<0.1	2.7	0.03	0.13	48	1.2	0.04	2.8	0.64	<0.1	0.08		
072361	Soil	34.4	16.5	0.37	54.7	0.001	<1	1.37	0.003	0.05	<0.1	5.0	0.06	<0.02	26	<0.1	0.03	2.8	0.54	<0.1	0.07		
072362	Soil	24.5	16.9	0.32	71.7	0.001	<1	1.53	0.005	0.06	<0.1	3.4	0.06	<0.02	27	<0.1	0.03	2.8	0.62	<0.1	0.06		
072363	Soil	29.4	17.7	0.40	53.0	0.002	<1	1.42	0.003	0.05	<0.1	1.1	0.06	<0.02	5	<0.1	0.02	4.4	0.74	<0.1	<0.02		
072364	Soil	25.1	21.1	0.53	63.5	0.005	<1	1.64	0.005	0.03	0.1	2.8	0.05	<0.02	18	<0.1	0.04	4.0	0.76	<0.1	0.03		
072365	Soil	23.0	16.6	0.37	23.9	0.002	<1	1.17	0.004	0.05	<0.1	1.5	0.04	<0.02	16	<0.1	0.06	4.2	0.92	<0.1	<0.02		
072366	Soil	23.6	15.1	0.30	70.6	0.001	<1	1.42	0.003	0.06	<0.1	1.8	0.06	<0.02	10	<0.1	0.02	2.9	0.60	<0.1	0.06		
072367	Soil	27.6	13.5	0.28	42.8	<0.001	<1	1.04	0.003	0.05	<0.1	6.0	0.04	<0.02	74	<0.1	0.03	2.2	0.68	<0.1	0.07		
072368	Soil	20.8	10.9	0.18	45.2	0.002	<1	0.82	0.003	0.03	<0.1	1.0	0.05	<0.02	10	<0.1	0.02	2.3	0.78	<0.1	<0.02		
072369	Soil	29.7	16.6	0.41	74.1	0.002	<1	1.23	0.005	0.08	<0.1	4.6	0.05	<0.02	68	<0.1	0.03	2.9	0.56	<0.1	0.07		
072370	Soil	29.8	19.4	0.40	76.7	0.001	1	1.70	0.004	0.07	<0.1	2.9	0.06	<0.02	36	<0.1	<0.02	4.2	0.75	<0.1	0.04		



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	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
072351	Soil	0.14	3.3	0.5	<0.05	2.4	4.08	37.2	<0.02	<1	0.4	40.5	<10	<2
072352	Soil	0.16	5.1	0.3	<0.05	2.4	7.06	38.6	0.02	<1	0.5	47.0	<10	<2
072353	Soil	0.07	3.6	1.3	<0.05	2.1	11.32	43.1	0.05	<1	0.6	18.0	<10	<2
072354	Soil	0.17	4.5	1.2	<0.05	2.2	6.77	33.8	0.02	<1	0.5	40.5	<10	<2
072355	Soil	0.08	2.5	0.8	<0.05	2.8	7.48	53.4	0.03	<1	0.5	69.5	<10	<2
072356	Soil	0.22	4.1	0.2	<0.05	3.2	8.32	31.9	0.02	1	0.4	40.8	<10	<2
072357	Soil	0.34	4.9	1.0	<0.05	1.5	8.39	51.5	0.03	<1	0.7	9.2	<10	<2
072358	Soil	0.07	5.8	0.2	<0.05	4.3	3.35	67.2	0.03	<1	0.6	47.3	<10	<2
072359	Soil	0.18	5.9	0.3	<0.05	1.9	2.93	52.3	0.03	<1	0.3	45.5	<10	<2
072360	Soil	0.24	3.4	0.4	<0.05	3.6	8.16	23.1	0.03	<1	0.7	34.0	<10	<2
072361	Soil	0.10	4.7	0.2	<0.05	4.0	11.01	64.3	0.04	<1	0.6	39.1	<10	<2
072362	Soil	0.23	7.3	1.5	<0.05	3.2	6.54	54.9	0.05	<1	0.9	33.6	<10	<2
072363	Soil	0.27	7.6	0.4	<0.05	1.0	1.93	53.6	<0.02	<1	0.3	36.8	<10	<2
072364	Soil	0.54	6.3	0.6	<0.05	1.5	6.06	46.5	0.03	<1	0.7	49.7	<10	<2
072365	Soil	0.21	11.6	0.3	<0.05	0.8	2.11	41.2	0.02	<1	0.3	38.0	<10	<2
072366	Soil	0.22	7.5	1.0	<0.05	4.0	2.89	47.0	<0.02	<1	0.4	31.6	<10	<2
072367	Soil	0.06	3.6	0.3	<0.05	3.5	12.42	50.7	0.04	<1	0.7	33.2	<10	<2
072368	Soil	0.33	7.7	0.8	<0.05	0.6	1.73	41.2	<0.02	<1	0.2	21.1	<10	<2
072369	Soil	0.14	4.5	0.6	<0.05	4.0	12.42	51.3	0.03	<1	0.5	34.1	<10	<2
072370	Soil	0.26	6.7	0.5	<0.05	2.5	8.85	57.8	0.03	<1	0.6	54.8	<10	<2



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Project: None Given  
Report Date: September 28, 2016

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# QUALITY CONTROL REPORT

WHI16000274.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	%	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
Pulp Duplicates																					
072256	Soil	0.39	8.71	13.02	47.1	51	10.7	5.0	136	2.32	6.4	0.5	1.2	6.5	7.0	0.10	0.78	0.26	15	0.05	0.024
REP 072256	QC	0.39	8.64	12.97	46.9	53	10.9	5.0	138	2.29	6.5	0.5	0.3	6.5	7.0	0.08	0.71	0.27	15	0.04	0.024
072258	Soil	0.40	40.57	30.87	82.9	53	41.2	15.0	371	4.06	35.6	1.0	13.0	11.9	19.8	0.04	0.75	0.55	10	0.13	0.038
REP 072258	QC	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.
072282	Soil	0.31	18.49	25.94	61.5	66	23.2	13.1	690	2.85	18.6	1.2	5.6	7.3	73.4	0.07	0.50	0.33	12	0.99	0.046
REP 072282	QC	0.26	18.26	26.50	61.9	69	22.8	13.0	653	2.84	19.2	1.2	3.5	7.2	73.1	0.07	0.48	0.31	12	0.97	0.048
071938	Soil	0.25	21.76	29.47	67.2	50	31.5	10.9	299	3.41	44.8	1.4	1.4	9.6	32.0	0.04	0.48	0.63	14	0.32	0.035
REP 071938	QC	0.26	22.14	29.48	67.9	48	31.1	10.8	292	3.42	45.0	1.4	0.4	9.2	31.5	0.05	0.48	0.62	14	0.32	0.033
071664	Soil	0.66	11.57	13.27	37.6	47	10.2	6.5	316	3.11	15.2	0.4	<0.2	4.2	6.6	0.08	0.51	0.35	19	0.03	0.033
REP 071664	QC	0.69	11.36	14.09	39.2	51	10.8	6.3	301	3.08	15.1	0.5	<0.2	4.3	6.6	0.08	0.57	0.35	19	0.02	0.036
072210	Soil	0.39	35.78	25.77	89.2	73	39.9	15.4	578	4.03	37.5	1.1	5.6	9.4	38.8	0.07	0.49	0.42	15	0.38	0.047
REP 072210	QC	0.36	35.85	25.65	91.2	75	40.5	15.7	571	4.03	38.0	1.1	5.6	9.3	37.8	0.07	0.50	0.41	15	0.38	0.047
071683	Soil	0.32	15.39	14.92	73.8	40	27.4	11.6	351	3.29	31.1	1.3	2.5	6.1	25.9	0.10	0.46	0.27	11	0.28	0.033
REP 071683	QC	0.36	16.39	15.05	69.9	48	27.3	11.0	345	3.27	30.1	1.3	4.2	5.6	25.7	0.09	0.40	0.25	11	0.29	0.032
071522	Soil	0.39	34.15	24.36	88.8	79	37.9	16.2	611	3.76	39.3	2.0	3.7	7.2	40.7	0.10	0.54	0.38	12	0.51	0.054
REP 071522	QC	0.41	33.72	24.84	88.6	87	36.9	15.6	589	3.77	38.3	2.1	6.2	7.2	40.7	0.07	0.55	0.37	12	0.50	0.053
073637	Soil	0.37	34.49	36.70	86.5	121	29.3	20.7	950	2.74	6.3	1.7	1.3	5.7	19.3	0.13	0.60	0.29	9	0.39	0.066
REP 073637	QC	0.38	34.39	37.66	85.5	116	29.0	20.4	953	2.78	6.4	1.7	1.3	5.8	19.1	0.14	0.57	0.28	9	0.40	0.071
071989	Soil	0.20	15.05	17.06	53.4	24	24.0	9.6	351	2.70	18.2	0.9	0.4	8.6	19.4	<0.01	0.30	0.25	12	0.20	0.048
REP 071989	QC	0.21	14.79	17.12	54.7	26	24.0	9.5	355	2.72	18.6	0.9	1.2	8.8	19.0	0.02	0.31	0.25	12	0.20	0.047
Reference Materials																					
STD DS10	Standard	15.39	148.62	149.57	355.0	1729	73.5	13.0	876	2.75	44.8	2.6	73.2	7.6	63.7	2.39	9.54	11.54	45	1.06	0.080
STD DS10	Standard	15.35	166.20	141.72	344.3	1746	80.8	13.9	853	2.75	43.5	2.6	70.6	7.3	64.6	2.51	9.14	11.65	45	1.06	0.070
STD DS10	Standard	16.03	155.56	158.98	368.4	1729	77.9	13.4	902	2.78	43.7	2.8	81.3	8.2	63.7	2.46	9.45	12.25	43	1.08	0.078
STD DS10	Standard	14.58	147.92	147.04	368.7	1700	70.4	12.8	885	2.76	43.1	2.3	68.3	7.1	59.6	2.47	9.88	11.33	43	1.07	0.075
STD DS10	Standard	15.50	157.89	157.43	364.5	1778	76.5	13.3	900	2.77	45.0	2.7	80.5	7.6	60.6	2.48	9.11	11.93	44	1.07	0.072
STD DS10	Standard	15.60	155.51	145.10	346.6	1751	76.1	12.9	882	2.69	43.7	2.5	71.8	7.3	60.5	2.42	8.52	11.60	44	1.03	0.072
STD DS10	Standard	15.40	159.38	146.04	362.6	1801	76.1	13.4	868	2.75	45.1	2.5	73.6	7.3	60.4	2.55	9.25	11.61	43	1.06	0.075



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**Client:** Golden Predator Mining Corp.  
510 - 580 Hornby Street  
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**Project:** None Given  
**Report Date:** September 28, 2016

**Page:** 1 of 2 **Part:** 2 of 3

# QUALITY CONTROL REPORT

WHI16000274.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.02	
Pulp Duplicates																					
072256	Soil	27.4	9.4	0.15	40.7	0.004	<1	0.98	0.005	0.04	<0.1	1.0	0.06	<0.02	8	<0.1	0.03	3.4	0.70	<0.1	<0.02
REP 072256	QC	27.4	9.5	0.15	40.1	0.004	<1	1.00	0.005	0.04	<0.1	1.1	0.06	<0.02	8	<0.1	0.02	3.6	0.70	<0.1	<0.02
072258	Soil	33.5	22.8	0.56	59.3	0.004	1	1.77	0.004	0.06	<0.1	2.7	0.07	<0.02	24	<0.1	0.06	4.7	1.44	<0.1	0.06
REP 072258	QC	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.
072282	Soil	19.1	17.4	0.40	65.1	0.002	4	1.36	0.009	0.10	<0.1	2.0	0.05	0.04	23	0.3	<0.02	3.6	0.71	<0.1	0.06
REP 072282	QC	19.8	17.2	0.40	65.7	0.003	1	1.36	0.007	0.11	<0.1	2.1	0.05	0.04	23	0.2	<0.02	3.6	0.73	<0.1	0.06
071938	Soil	28.1	24.4	0.53	77.9	0.004	2	1.78	0.008	0.11	0.1	2.4	0.06	<0.02	16	0.2	0.04	4.5	0.88	<0.1	0.04
REP 071938	QC	27.4	23.7	0.53	76.8	0.004	1	1.75	0.007	0.11	0.1	2.5	0.05	<0.02	<5	<0.1	0.06	4.4	0.85	<0.1	0.05
071664	Soil	23.0	12.0	0.15	57.1	0.005	<1	0.94	0.006	0.04	0.1	1.0	0.05	<0.02	18	<0.1	0.05	5.2	0.70	<0.1	<0.02
REP 071664	QC	24.5	11.6	0.16	61.0	0.005	<1	0.94	0.006	0.04	0.1	1.0	0.05	<0.02	18	<0.1	0.06	5.3	0.76	<0.1	0.02
072210	Soil	30.5	28.1	0.68	62.3	0.002	<1	1.97	0.009	0.11	<0.1	2.7	0.04	<0.02	20	0.3	0.06	5.0	0.80	<0.1	0.08
REP 072210	QC	30.9	28.3	0.68	63.4	0.002	<1	1.97	0.009	0.11	<0.1	2.8	0.04	<0.02	20	0.3	0.05	5.0	0.80	<0.1	0.08
071683	Soil	19.7	20.4	0.60	23.0	0.002	<1	1.38	0.002	0.02	0.2	1.6	0.02	<0.02	<5	0.2	0.03	4.5	0.53	<0.1	0.03
REP 071683	QC	20.0	20.6	0.60	23.4	0.002	<1	1.37	0.002	0.02	0.1	1.6	<0.02	<0.02	9	0.1	0.05	4.5	0.51	<0.1	<0.02
071522	Soil	15.6	25.3	0.71	37.4	0.001	<1	1.68	0.004	0.04	<0.1	2.3	0.03	0.03	23	0.4	0.03	4.6	0.89	<0.1	0.07
REP 071522	QC	16.3	25.3	0.70	36.8	0.001	<1	1.70	0.004	0.04	<0.1	2.2	0.03	0.03	14	0.5	0.04	4.5	0.90	<0.1	0.09
073637	Soil	26.1	14.1	0.37	40.3	0.004	<1	1.28	0.010	0.05	<0.1	2.1	0.05	0.05	51	0.4	0.02	3.2	1.04	<0.1	0.07
REP 073637	QC	27.9	14.4	0.37	40.8	0.004	1	1.31	0.011	0.05	<0.1	2.2	0.04	0.05	44	0.4	0.02	3.3	1.14	<0.1	0.06
071989	Soil	25.4	19.0	0.48	36.4	0.008	<1	1.37	0.008	0.09	<0.1	1.6	0.04	<0.02	7	<0.1	0.02	3.6	0.52	<0.1	0.03
REP 071989	QC	24.6	18.9	0.48	36.2	0.008	<1	1.36	0.008	0.08	<0.1	1.5	0.04	<0.02	12	<0.1	0.03	3.5	0.50	<0.1	0.04
Reference Materials																					
STD DS10	Standard	17.9	57.8	0.77	340.3	0.081	6	1.09	0.064	0.35	3.3	3.0	5.12	0.27	260	2.4	4.91	4.5	2.73	<0.1	0.05
STD DS10	Standard	18.3	62.6	0.77	331.9	0.092	6	1.09	0.076	0.34	3.0	3.0	4.72	0.27	260	2.1	4.46	4.2	2.63	0.1	0.05
STD DS10	Standard	18.0	61.4	0.78	342.0	0.087	7	1.08	0.075	0.34	3.3	2.9	5.22	0.29	294	2.0	4.79	4.2	2.63	<0.1	0.05
STD DS10	Standard	17.7	55.5	0.77	350.8	0.078	6	1.07	0.073	0.34	3.5	3.0	4.93	0.28	255	2.6	4.85	4.8	2.72	<0.1	0.07
STD DS10	Standard	17.8	58.3	0.76	353.1	0.077	6	1.05	0.074	0.34	3.3	3.0	5.32	0.28	287	2.3	4.87	4.3	2.71	<0.1	0.05
STD DS10	Standard	16.7	55.9	0.75	330.5	0.072	7	1.04	0.072	0.33	3.5	2.9	5.12	0.28	265	2.1	4.95	4.1	2.60	<0.1	0.06
STD DS10	Standard	17.1	56.2	0.80	357.7	0.074	7	1.04	0.071	0.35	3.4	2.9	5.08	0.28	285	2.1	4.92	4.1	2.71	<0.1	0.04



# QUALITY CONTROL REPORT

WHI16000274.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
Pulp Duplicates														
072256	Soil	0.40	5.6	0.7	<0.05	0.6	2.11	50.7	0.02	<1	0.2	17.3	<10	<2
REP 072256	QC	0.41	5.6	0.7	<0.05	0.6	2.09	50.5	<0.02	<1	0.2	17.0	<10	<2
072258	Soil	0.29	6.5	0.7	<0.05	2.1	6.79	62.6	0.04	2	0.5	50.4	<10	<2
REP 072258	QC	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.
072282	Soil	0.27	7.7	0.6	<0.05	2.8	4.38	37.5	<0.02	<1	0.4	35.4	<10	<2
REP 072282	QC	0.27	8.0	0.7	<0.05	2.7	4.65	39.4	<0.02	<1	0.4	33.9	<10	<2
071938	Soil	0.36	8.8	0.5	<0.05	1.8	4.26	51.2	0.02	<1	0.6	46.0	<10	<2
REP 071938	QC	0.36	8.5	0.5	<0.05	2.0	4.30	49.3	0.02	<1	0.7	46.8	<10	<2
071664	Soil	0.45	5.7	0.9	<0.05	0.3	2.01	40.9	0.02	<1	0.1	14.1	<10	<2
REP 071664	QC	0.42	5.7	0.9	<0.05	0.2	2.08	45.6	0.02	<1	0.3	13.6	<10	<2
072210	Soil	0.14	5.5	0.7	<0.05	3.1	5.90	57.4	0.03	<1	0.4	55.6	<10	<2
REP 072210	QC	0.14	5.4	0.8	<0.05	3.4	5.84	58.6	0.02	<1	0.5	55.1	<10	<2
071683	Soil	0.13	4.9	0.2	<0.05	1.0	2.50	38.3	<0.02	<1	<0.1	43.6	<10	<2
REP 071683	QC	0.14	4.6	0.2	<0.05	1.0	2.37	38.5	<0.02	<1	0.2	44.3	<10	<2
071522	Soil	0.12	3.7	0.2	<0.05	2.8	5.67	29.7	0.02	<1	0.4	50.5	<10	<2
REP 071522	QC	0.13	3.7	0.2	<0.05	2.8	5.64	30.2	0.02	<1	0.5	52.2	<10	<2
073637	Soil	0.23	4.6	0.7	<0.05	3.4	12.31	51.6	0.02	<1	0.6	22.7	<10	<2
REP 073637	QC	0.25	4.8	0.7	<0.05	3.0	12.51	55.2	0.02	<1	0.8	23.7	<10	<2
071989	Soil	0.38	5.3	0.6	<0.05	2.2	4.21	49.5	<0.02	<1	0.4	42.4	<10	<2
REP 071989	QC	0.38	5.1	0.7	<0.05	2.2	4.02	46.4	<0.02	<1	0.5	41.1	<10	<2
Reference Materials														
STD DS10	Standard	1.66	28.0	1.6	<0.05	2.5	7.79	35.5	0.24	45	0.8	19.5	92	185
STD DS10	Standard	1.60	27.1	1.7	<0.05	2.3	7.97	34.8	0.23	44	0.5	18.1	104	179
STD DS10	Standard	1.49	27.3	1.6	<0.05	2.6	7.88	35.4	0.24	49	0.7	20.7	100	188
STD DS10	Standard	1.65	29.0	1.6	<0.05	2.5	8.04	35.9	0.21	48	0.6	17.5	100	189
STD DS10	Standard	1.77	28.0	1.6	<0.05	2.4	7.92	36.9	0.23	51	0.6	19.2	108	175
STD DS10	Standard	1.53	27.8	1.6	<0.05	2.3	7.52	34.8	0.24	41	0.7	19.0	111	181
STD DS10	Standard	1.44	28.0	1.5	<0.05	2.2	7.55	34.5	0.26	50	0.4	18.6	106	183



Bureau Veritas Commodities Canada Ltd.

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**Client:** Golden Predator Mining Corp.  
510 - 580 Hornby Street  
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**Project:** None Given  
**Report Date:** September 28, 2016

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# QUALITY CONTROL REPORT

WHI16000274.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
STD DS10	Standard	14.26	153.88	152.42	346.1	1787	73.4	13.3	894	2.71	43.6	2.5	68.6	7.7	63.6	2.76	9.86	12.11	42	1.05	0.073
STD DS10	Standard	14.06	155.07	148.12	361.4	1745	77.9	13.4	902	2.75	44.3	2.7	71.6	7.3	60.2	2.37	7.77	11.41	42	1.05	0.077
STD DS10	Standard	15.48	166.31	149.23	364.6	1929	77.3	13.0	858	2.78	46.1	2.8	98.1	7.8	66.2	2.92	9.49	12.77	42	1.07	0.075
STD OXC129	Standard	1.34	27.05	6.40	37.9	21	82.7	20.9	409	3.02	0.7	0.7	214.5	1.9	181.3	0.04	0.04	<0.02	53	0.72	0.099
STD OXC129	Standard	1.34	29.03	6.64	38.8	17	85.9	22.0	419	3.09	0.6	0.7	193.3	1.9	188.1	0.03	0.04	<0.02	54	0.74	0.099
STD OXC129	Standard	1.33	27.65	6.74	37.9	29	82.2	21.2	416	3.01	0.5	0.7	193.3	1.9	181.5	0.04	0.04	0.02	51	0.72	0.102
STD OXC129	Standard	1.37	26.21	6.55	37.8	16	79.4	20.1	391	2.97	0.7	0.7	196.8	1.9	193.0	0.04	0.04	<0.02	50	0.70	0.098
STD OXC129	Standard	1.37	28.38	6.09	42.6	13	82.0	21.0	424	3.05	0.6	0.7	185.0	1.8	187.9	0.02	0.04	<0.02	53	0.70	0.099
STD OXC129	Standard	1.36	28.72	6.19	42.3	9	82.3	21.8	431	3.00	0.5	0.6	192.6	1.8	185.8	0.01	0.04	<0.02	52	0.65	0.100
STD OXC129	Standard	1.37	28.84	6.44	43.7	9	84.5	21.9	429	3.05	0.9	0.7	198.1	1.9	186.6	0.03	0.03	<0.02	51	0.64	0.102
STD OXC129	Standard	1.30	27.22	5.97	39.7	20	74.7	20.6	423	2.91	0.5	0.7	193.0	1.8	181.7	0.03	0.04	<0.02	49	0.64	0.095
STD OXC129	Standard	1.37	28.24	6.38	43.8	12	84.1	21.2	425	3.01	0.8	0.7	193.6	1.9	180.6	0.02	0.03	<0.02	50	0.59	0.103
STD OXC129	Standard	1.25	29.93	6.40	41.9	15	82.1	20.4	397	2.88	0.4	0.7	195.7	1.8	179.6	0.04	0.04	0.02	47	0.60	0.095
STD DS10 Expected		15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	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	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665	0.102
BLK	Blank	<0.01	0.03	0.01	<0.1	7	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.05	0.04	0.2	2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.02	<0.01	<0.1	7	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	3	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.3	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.05	0.03	0.4	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



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PHONE (604) 253-3158

Client: Golden Predator Mining Corp.

510 - 580 Hornby Street

Vancouver British Columbia V6C 3B6 Canada

Project: None Given

Report Date: September 28, 2016

Page: 2 of 2

Part: 2 of 3

# QUALITY CONTROL REPORT

## WHI16000274.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
STD DS10	Standard	17.4	54.4	0.78	351.7	0.077	5	1.03	0.071	0.34	3.4	2.7	5.21	0.28	272	2.6	4.77	4.3	2.73	<0.1	0.04
STD DS10	Standard	16.3	55.0	0.77	348.1	0.070	8	1.03	0.072	0.33	3.2	2.7	5.09	0.29	262	1.9	4.80	4.1	2.49	<0.1	0.06
STD DS10	Standard	18.8	56.9	0.78	348.3	0.080	7	1.08	0.077	0.34	3.1	2.9	5.17	0.29	274	2.1	4.78	4.5	2.65	<0.1	0.07
STD OXC129	Standard	12.1	54.0	1.51	49.4	0.410	2	1.61	0.601	0.39	<0.1	1.0	0.03	<0.02	<5	<0.1	<0.02	5.6	0.16	<0.1	0.28
STD OXC129	Standard	13.0	57.5	1.54	50.9	0.431	<1	1.65	0.615	0.37	<0.1	0.9	0.03	<0.02	<5	<0.1	<0.02	5.6	0.17	<0.1	0.23
STD OXC129	Standard	12.4	56.6	1.52	49.0	0.430	<1	1.61	0.598	0.38	<0.1	1.0	0.04	<0.02	<5	<0.1	<0.02	5.4	0.17	0.1	0.23
STD OXC129	Standard	12.4	49.6	1.52	52.3	0.408	1	1.60	0.599	0.36	<0.1	0.8	0.03	<0.02	<5	<0.1	<0.02	5.5	0.17	0.1	0.30
STD OXC129	Standard	12.1	54.8	1.51	49.1	0.409	<1	1.59	0.600	0.36	<0.1	1.0	0.03	<0.02	<5	<0.1	<0.02	5.4	0.16	<0.1	0.23
STD OXC129	Standard	12.4	54.4	1.51	49.3	0.390	<1	1.56	0.595	0.36	<0.1	0.9	0.03	<0.02	<5	<0.1	<0.02	5.6	0.16	<0.1	0.24
STD OXC129	Standard	12.9	56.3	1.54	51.3	0.394	1	1.56	0.611	0.39	<0.1	1.1	0.03	<0.02	<5	<0.1	<0.02	5.6	0.17	<0.1	0.31
STD OXC129	Standard	11.6	54.2	1.48	48.6	0.381	1	1.50	0.586	0.37	<0.1	0.7	0.03	<0.02	<5	<0.1	<0.02	5.3	0.16	<0.1	0.22
STD OXC129	Standard	12.8	52.9	1.54	49.2	0.376	1	1.55	0.613	0.40	<0.1	0.8	0.03	<0.02	<5	<0.1	<0.02	5.6	0.16	<0.1	0.28
STD OXC129	Standard	12.7	51.1	1.44	50.3	0.367	1	1.51	0.577	0.38	<0.1	1.3	0.03	<0.02	<5	<0.1	<0.02	5.4	0.16	<0.1	0.26
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0259	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	2.63	0.08	0.06
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03				5.6	0.16			0.24
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	6	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	0.2	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	0.6	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02



# QUALITY CONTROL REPORT

WHI16000274.1

		AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
STD DS10	Standard	1.52	29.3	1.7	<0.05	2.1	8.08	35.5	0.24	49	0.6	17.9	98	176
STD DS10	Standard	1.52	27.7	1.6	<0.05	2.4	7.25	33.0	0.24	43	0.8	18.3	126	186
STD DS10	Standard	1.51	29.4	1.7	<0.05	2.6	8.35	35.5	0.24	49	0.6	19.3	95	183
STD OXC129	Standard	1.46	16.9	0.7	<0.05	20.9	4.60	22.8	<0.02	<1	0.7	2.0	<10	<2
STD OXC129	Standard	1.47	16.7	0.7	<0.05	21.5	4.90	22.8	<0.02	<1	0.8	2.4	<10	<2
STD OXC129	Standard	1.12	15.8	0.7	<0.05	20.6	4.68	22.2	<0.02	<1	0.6	2.2	<10	<2
STD OXC129	Standard	1.43	15.7	0.7	<0.05	22.3	5.29	23.5	<0.02	<1	0.7	2.4	<10	<2
STD OXC129	Standard	1.18	14.9	0.6	<0.05	19.3	4.75	22.9	<0.02	<1	0.7	2.2	<10	<2
STD OXC129	Standard	1.21	15.2	0.7	<0.05	20.2	4.69	22.5	<0.02	<1	0.8	2.1	<10	<2
STD OXC129	Standard	1.47	15.6	0.6	<0.05	22.7	4.64	23.2	<0.02	<1	0.9	2.2	<10	<2
STD OXC129	Standard	1.35	15.4	0.7	<0.05	18.5	4.72	21.3	<0.02	<1	0.7	2.0	<10	<2
STD OXC129	Standard	1.16	15.3	0.7	<0.05	20.7	4.47	22.6	<0.02	<1	0.8	2.3	<10	<2
STD OXC129	Standard	1.61	17.2	0.7	<0.05	20.7	4.65	22.9	<0.02	<1	0.9	2.1	<10	<2
STD DS10 Expected		1.62	27.7	1.6		2.7	7.77	37	0.23	50	0.63	19.4	110	191
STD OXC129 Expected		1.4		0.7		21	4.7	23.7			0.8	2.22		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2



**BUREAU VERITAS** MINERAL LABORATORIES  
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PHONE (604) 253-3158

**Client:** **Golden Predator Mining Corp.**  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6 Canada

Submitted By: M. Burke  
Receiving Lab: Canada-Whitehorse  
Received: September 09, 2016  
Report Date: September 27, 2016  
Page: 1 of 6

# CERTIFICATE OF ANALYSIS

WHI16000275.1

## CLIENT JOB INFORMATION

Project: None Given  
Shipment ID:  
P.O. Number  
Number of Samples: 140

## 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: Golden Predator Mining Corp.  
510 - 580 Hornby Street  
Vancouver British Columbia V6C 3B6  
Canada

CC:

## SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Procedure Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
Dry at 60C	140	Dry at 60C			WHI
SS80	140	Dry at 60C sieve 100g to -80 mesh			WHI
AQ251_EXT	140	1:1:1 Aqua Regia digestion Ultratrace ICP-MS analysis	15	Completed	VAN
SHP01	140	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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Vancouver British Columbia V6C 3B6 Canada

**Project:** None Given  
**Report Date:** September 27, 2016

**Page:** 2 of 6

**Part:** 1 of 3

# CERTIFICATE OF ANALYSIS

# WHI16000275.1

	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
072381	Soil	0.40	18.03	25.45	53.8	50	22.9	9.3	146	2.94	4.2	0.9	2.5	13.3	46.4	0.09	0.17	0.37	6	0.81	0.026
072382	Soil	0.32	54.50	22.89	62.2	222	36.3	13.7	618	2.92	5.2	3.2	2.2	2.5	127.8	0.15	0.32	0.37	8	1.68	0.057
072383	Soil	0.29	14.64	17.58	53.0	15	25.5	10.0	247	3.17	19.2	0.5	1.7	7.6	16.6	0.02	0.39	0.27	13	0.13	0.013
072384	Soil	0.45	17.79	22.62	64.5	101	18.7	10.9	502	2.92	22.7	1.5	0.9	6.2	41.4	0.16	0.39	0.38	17	0.50	0.026
072385	Soil	0.39	32.35	24.18	89.9	50	35.7	14.1	430	4.08	6.8	1.2	1.3	9.5	70.3	0.08	0.39	0.43	9	0.67	0.054
072386	Soil	0.27	25.08	21.52	54.0	41	26.4	12.5	537	2.97	21.4	1.3	2.5	8.1	57.3	0.03	0.49	0.30	11	0.59	0.023
072387	Soil	0.58	18.27	14.86	37.3	52	17.2	8.3	349	2.99	34.7	1.5	4.1	1.9	106.7	0.14	0.47	0.34	11	1.40	0.040
072388	Soil	0.74	19.53	26.83	67.4	59	23.6	14.5	472	4.43	54.4	0.8	3.3	5.4	42.9	0.07	0.61	0.50	18	0.50	0.041
072389	Soil	0.24	25.27	20.21	32.8	115	15.3	5.3	152	2.01	8.9	1.1	0.8	5.0	66.9	0.08	0.19	0.22	13	0.83	0.030
072390	Soil	0.30	15.94	15.17	42.4	44	19.8	8.0	271	2.54	21.0	0.9	1.5	5.2	45.4	0.05	0.30	0.26	13	0.58	0.024
071991	Soil	0.53	14.21	23.42	63.7	26	27.4	9.7	221	4.03	59.8	0.5	<0.2	7.8	5.9	<0.01	0.32	0.46	17	0.03	0.013
071992	Soil	0.30	12.02	10.11	65.5	13	26.4	9.1	340	3.29	28.5	0.7	1.2	5.2	12.5	0.06	0.31	0.23	12	0.17	0.024
071993	Soil	0.39	14.22	13.44	64.2	14	23.9	9.0	294	3.34	33.5	0.4	0.9	6.2	5.9	0.05	0.40	0.29	14	0.06	0.030
071994	Soil	0.35	24.38	22.81	68.3	87	29.5	12.8	466	3.20	34.6	3.8	5.0	4.6	72.7	0.10	0.52	0.31	11	0.99	0.046
071995	Soil	0.31	25.60	22.22	76.9	73	33.3	13.4	321	3.64	39.8	1.9	2.6	6.7	31.7	0.04	0.44	0.34	12	0.40	0.037
071996	Soil	0.34	29.74	22.51	81.5	78	35.7	14.1	437	3.71	34.6	2.0	107.7	7.8	36.1	0.08	0.51	0.33	12	0.49	0.047
071997	Soil	0.33	30.92	20.86	85.6	69	33.9	13.4	447	3.50	38.3	5.1	3.3	7.1	41.9	0.10	0.48	0.33	12	0.54	0.046
071998	Soil	0.47	41.45	26.16	77.7	96	42.0	15.6	596	3.83	43.3	1.8	7.4	5.9	42.6	0.11	0.70	0.43	14	0.49	0.037
071999	Soil	0.35	29.59	23.70	87.3	93	38.3	14.8	548	3.92	49.1	1.3	5.2	6.4	48.0	0.13	0.46	0.41	15	0.53	0.042
072000	Soil	0.40	18.67	21.56	82.0	30	30.6	13.1	341	3.95	30.0	0.9	1.5	8.1	24.6	0.04	0.39	0.41	16	0.17	0.019
072171	Soil	0.36	18.96	20.03	57.1	40	29.9	11.9	226	3.30	41.3	0.6	0.9	8.4	4.3	0.02	0.26	0.31	16	0.02	0.027
072172	Soil	0.58	10.07	12.89	37.4	117	13.8	5.9	666	2.40	13.0	1.4	0.7	2.3	48.7	0.24	0.18	0.31	23	0.58	0.038
072173	Soil	0.70	38.96	11.70	35.3	225	20.3	11.0	971	2.51	23.5	4.0	1.9	1.1	194.1	0.37	0.46	0.26	11	2.52	0.088
072174	Soil	0.60	18.32	27.91	55.2	48	19.6	9.8	301	4.63	33.3	0.6	<0.2	6.8	5.1	0.09	0.53	0.48	23	0.04	0.047
072175	Soil	0.33	16.32	17.79	47.4	21	27.9	11.2	235	2.90	16.4	0.5	1.6	8.3	9.7	<0.01	0.18	0.32	17	0.04	0.015
072176	Soil	0.29	31.29	24.35	85.0	68	32.6	13.3	374	3.45	15.8	0.7	2.4	10.4	25.7	0.04	0.49	0.35	10	0.25	0.051
072177	Soil	0.34	19.89	21.64	63.1	40	27.9	10.3	240	3.81	22.5	0.6	1.8	9.5	9.4	<0.01	0.42	0.32	15	0.07	0.016
072178	Soil	0.37	15.24	11.75	46.4	57	14.3	6.9	128	2.45	12.5	0.4	0.6	4.9	12.2	0.03	0.40	0.33	17	0.06	0.026
072179	Soil	0.44	13.79	16.55	34.8	59	9.2	3.7	75	1.85	3.0	0.5	0.4	6.4	23.1	0.04	0.11	0.24	14	0.12	0.028
072180	Soil	0.24	10.46	11.28	23.5	134	5.7	2.1	46	0.91	2.3	0.4	0.5	0.6	19.1	0.03	0.14	0.16	9	0.13	0.017



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000275.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02	0.02
072381	Soil	27.2	9.0	0.19	42.5	<0.001	1	0.89	0.005	0.04	<0.1	5.9	0.05	<0.02	45	0.1	<0.02	1.5	0.37	<0.1	0.08
072382	Soil	13.5	16.9	0.44	54.9	0.003	2	1.31	0.004	0.04	<0.1	3.5	0.04	0.06	146	0.6	<0.02	3.3	0.68	<0.1	0.05
072383	Soil	26.5	20.2	0.48	42.4	0.002	1	1.55	0.004	0.07	<0.1	1.6	0.05	<0.02	9	<0.1	0.04	3.9	0.75	<0.1	0.04
072384	Soil	20.7	18.6	0.36	65.8	0.007	1	1.25	0.005	0.06	0.1	2.0	0.06	<0.02	14	<0.1	0.04	4.2	1.27	<0.1	0.02
072385	Soil	28.9	19.7	0.48	34.1	<0.001	2	1.38	0.005	0.03	<0.1	3.8	0.03	0.03	42	0.4	0.02	3.5	0.79	<0.1	0.07
072386	Soil	22.9	17.8	0.44	81.2	0.002	2	1.50	0.009	0.10	<0.1	2.3	0.05	<0.02	21	0.2	0.03	4.0	0.62	<0.1	0.07
072387	Soil	9.4	16.6	0.29	44.4	0.002	1	1.04	0.009	0.04	<0.1	1.0	0.04	0.07	21	1.0	0.05	3.7	0.51	<0.1	0.02
072388	Soil	18.0	22.2	0.43	42.6	0.005	<1	1.56	0.005	0.04	0.1	1.5	0.05	0.02	6	0.3	0.04	5.2	0.87	<0.1	0.03
072389	Soil	21.2	15.3	0.26	68.7	0.003	<1	1.39	0.007	0.04	0.1	1.9	0.05	<0.02	13	0.3	<0.02	3.9	0.49	<0.1	0.03
072390	Soil	19.8	18.0	0.39	63.6	0.004	1	1.31	0.007	0.06	<0.1	1.8	0.05	<0.02	15	0.2	0.03	4.1	0.77	<0.1	0.02
071991	Soil	29.3	24.3	0.65	32.0	0.002	<1	1.89	0.003	0.03	<0.1	1.5	0.04	<0.02	8	<0.1	0.05	6.2	0.89	<0.1	0.04
071992	Soil	18.6	20.8	0.63	19.1	0.002	<1	1.43	0.002	0.03	<0.1	1.2	0.02	<0.02	<5	<0.1	0.03	4.3	0.30	<0.1	0.02
071993	Soil	23.3	18.8	0.54	18.9	0.002	<1	1.30	0.003	0.03	0.1	1.1	0.03	<0.02	6	<0.1	0.04	5.1	0.48	<0.1	<0.02
071994	Soil	13.6	21.2	0.60	34.2	0.002	<1	1.45	0.006	0.04	<0.1	1.9	<0.02	0.04	22	0.6	0.03	4.1	0.57	<0.1	0.03
071995	Soil	16.7	23.6	0.68	24.7	0.001	<1	1.62	0.003	0.03	<0.1	1.9	0.02	<0.02	15	0.4	0.04	4.5	0.57	<0.1	0.05
071996	Soil	19.5	24.3	0.74	25.3	0.001	<1	1.69	0.004	0.04	<0.1	2.2	<0.02	0.02	16	0.3	0.05	4.4	0.66	<0.1	0.07
071997	Soil	16.6	23.9	0.70	29.8	0.001	<1	1.62	0.005	0.04	<0.1	2.1	0.02	0.03	22	0.6	0.05	4.5	0.94	<0.1	0.08
071998	Soil	23.7	25.3	0.59	73.4	0.004	1	1.68	0.007	0.08	0.1	3.3	0.04	0.02	46	0.5	0.07	4.3	1.02	<0.1	0.07
071999	Soil	22.5	27.6	0.71	65.0	0.003	<1	1.91	0.006	0.06	0.1	2.4	0.04	<0.02	26	0.5	0.07	5.1	0.71	<0.1	0.06
072000	Soil	27.1	24.4	0.60	49.7	0.005	<1	1.77	0.004	0.04	0.1	1.8	0.05	<0.02	<5	<0.1	0.05	5.0	1.61	<0.1	0.04
072171	Soil	24.8	24.4	0.61	60.5	0.008	<1	2.19	0.005	0.07	0.2	2.0	0.07	<0.02	15	<0.1	0.06	4.9	0.87	<0.1	0.12
072172	Soil	17.0	15.8	0.36	40.4	0.019	<1	1.06	0.005	0.04	0.2	1.2	0.06	0.03	15	0.3	0.03	5.0	0.87	<0.1	<0.02
072173	Soil	12.3	13.2	0.25	62.5	0.007	3	0.84	0.012	0.04	0.1	1.2	0.08	0.10	55	1.5	0.03	2.3	1.06	<0.1	<0.02
072174	Soil	20.6	22.6	0.32	36.1	0.012	<1	1.79	0.004	0.04	0.2	1.6	0.06	<0.02	21	0.2	0.06	5.5	1.15	<0.1	0.03
072175	Soil	27.0	23.3	0.54	73.9	0.008	<1	2.03	0.005	0.10	0.2	2.0	0.09	<0.02	10	<0.1	0.04	5.0	0.94	<0.1	0.10
072176	Soil	34.0	19.2	0.55	33.7	0.002	<1	1.36	0.004	0.05	<0.1	3.7	0.03	<0.02	32	<0.1	0.04	3.6	0.50	<0.1	0.02
072177	Soil	35.5	23.4	0.52	79.1	0.002	<1	2.00	0.004	0.09	<0.1	1.9	0.07	<0.02	8	<0.1	0.02	4.8	0.89	<0.1	0.04
072178	Soil	27.3	14.0	0.23	53.3	0.003	<1	1.22	0.006	0.05	0.1	1.2	0.06	<0.02	10	0.1	0.04	4.6	0.94	<0.1	<0.02
072179	Soil	36.7	11.1	0.10	58.6	0.001	<1	0.83	0.003	0.05	<0.1	0.9	0.06	<0.02	14	<0.1	0.03	3.2	0.93	<0.1	<0.02
072180	Soil	7.6	5.6	0.08	44.9	0.006	<1	0.67	0.024	0.03	<0.1	0.7	0.04	<0.02	22	<0.1	<0.02	2.7	1.05	<0.1	<0.02



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
072381	Soil	0.09	4.8	0.3	<0.05	4.2	16.85	71.9	0.04	<1	0.9	21.1	<10	<2
072382	Soil	0.22	7.2	1.1	<0.05	1.4	11.20	25.2	0.03	<1	0.8	47.4	<10	<2
072383	Soil	0.25	7.7	0.2	<0.05	2.6	2.18	51.4	0.02	<1	0.6	43.9	<10	<2
072384	Soil	0.77	16.4	0.8	<0.05	1.4	3.01	42.0	0.02	<1	0.4	44.3	<10	<2
072385	Soil	0.07	3.4	0.3	<0.05	3.0	6.87	57.1	0.03	<1	0.6	68.7	<10	<2
072386	Soil	0.32	6.3	0.6	<0.05	3.5	5.63	46.2	0.02	<1	0.6	41.5	<10	<2
072387	Soil	0.29	5.7	0.3	<0.05	1.0	1.96	18.1	<0.02	<1	0.3	37.0	<10	<2
072388	Soil	0.82	9.0	0.8	<0.05	1.2	2.80	33.8	0.02	<1	0.5	46.4	<10	<2
072389	Soil	0.52	5.1	0.4	<0.05	1.0	5.08	44.0	0.03	<1	0.7	26.8	<10	<2
072390	Soil	0.52	8.1	0.8	<0.05	1.3	2.92	38.7	<0.02	<1	0.4	38.8	<10	<2
071991	Soil	0.26	5.3	0.4	<0.05	2.7	1.78	54.4	<0.02	<1	0.2	56.1	<10	<2
071992	Soil	0.09	4.3	0.1	<0.05	1.0	1.81	36.1	<0.02	<1	<0.1	45.2	<10	<2
071993	Soil	0.17	4.3	0.2	<0.05	0.9	1.63	44.3	<0.02	<1	0.2	37.4	<10	<2
071994	Soil	0.16	3.6	0.3	<0.05	1.7	5.23	27.1	<0.02	<1	0.4	48.1	<10	<2
071995	Soil	0.09	2.9	0.3	<0.05	2.2	4.35	32.6	<0.02	<1	0.3	54.9	<10	<2
071996	Soil	0.09	2.8	0.3	<0.05	2.7	5.20	37.7	<0.02	<1	0.3	53.0	<10	<2
071997	Soil	0.10	3.3	0.2	<0.05	2.8	4.69	32.4	<0.02	<1	0.4	51.0	<10	<2
071998	Soil	0.28	6.9	0.5	<0.05	2.2	13.00	43.2	0.03	<1	0.7	46.0	<10	<2
071999	Soil	0.23	5.5	0.4	<0.05	2.2	5.51	42.2	<0.02	<1	0.4	52.3	<10	<2
072000	Soil	0.42	6.6	0.4	<0.05	2.3	3.33	53.3	0.03	<1	0.5	65.5	<10	<2
072171	Soil	0.60	7.9	0.4	<0.05	4.8	2.33	48.2	<0.02	<1	0.5	45.5	<10	<2
072172	Soil	1.08	7.8	0.6	<0.05	0.4	2.46	32.5	<0.02	<1	0.3	28.8	<10	<2
072173	Soil	0.69	7.1	0.9	<0.05	0.6	9.21	19.3	0.02	1	0.3	16.1	<10	<2
072174	Soil	1.23	8.7	0.6	<0.05	1.7	2.41	40.9	0.03	<1	0.5	32.5	<10	<2
072175	Soil	0.61	11.6	0.5	<0.05	3.8	3.23	53.3	<0.02	<1	0.6	39.4	<10	<2
072176	Soil	0.11	3.1	0.4	<0.05	1.4	10.48	62.7	0.02	<1	0.5	49.3	<10	<2
072177	Soil	0.26	8.8	0.4	<0.05	2.8	2.90	67.8	0.02	<1	0.5	49.5	<10	<2
072178	Soil	0.45	7.5	0.6	<0.05	0.5	2.36	51.0	<0.02	<1	0.3	26.3	<10	<2
072179	Soil	0.25	8.2	1.9	<0.05	0.2	2.41	66.3	<0.02	<1	0.2	15.4	<10	<2
072180	Soil	0.35	4.2	0.6	<0.05	0.1	2.25	14.3	<0.02	<1	0.3	10.8	<10	<2



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**Project:** None Given  
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# CERTIFICATE OF ANALYSIS

# WHI16000275.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251		
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
072181	Soil	0.35	6.66	9.16	45.7	101	7.4	5.7	253	1.19	2.6	0.3	0.2	2.6	9.0	0.07	0.16	0.20	11	0.06	0.018	
072182	Soil	0.35	15.98	19.25	46.4	23	22.0	9.7	186	2.90	16.8	0.5	0.6	8.2	11.2	0.02	0.51	0.29	12	0.13	0.015	
072183	Soil	0.39	9.97	11.94	48.1	25	19.7	7.1	204	2.71	19.3	0.4	1.5	6.4	12.2	<0.01	0.24	0.25	16	0.14	0.014	
072184	Soil	0.69	4.73	16.14	39.8	33	12.0	5.5	165	2.07	6.4	0.4	1.0	5.4	9.5	0.08	0.38	0.22	18	0.07	0.015	
072185	Soil	0.39	13.03	19.12	68.3	34	25.0	8.9	122	3.29	7.3	0.7	0.9	10.1	19.0	0.01	0.14	0.32	13	0.15	0.012	
072186	Soil	0.46	13.94	26.19	53.1	101	14.7	9.0	351	2.74	15.7	1.4	0.7	3.1	82.2	0.21	0.32	0.34	20	0.81	0.032	
072187	Soil	0.28	28.49	23.16	74.0	54	31.8	12.8	345	3.30	19.5	0.7	3.2	9.2	76.0	0.07	0.57	0.38	12	0.92	0.032	
072188	Soil	0.24	22.22	16.89	46.6	79	22.6	9.2	402	2.37	15.3	1.5	1.6	3.0	98.3	0.10	0.43	0.27	10	1.29	0.040	
072189	Soil	0.39	17.31	20.62	44.2	38	20.1	10.6	483	2.34	15.2	0.8	1.2	4.5	61.5	0.20	0.40	0.26	9	0.83	0.034	
072190	Soil	0.46	19.96	22.62	56.5	44	26.1	11.7	332	2.82	6.2	0.9	0.2	7.5	27.6	0.07	0.22	0.27	11	0.29	0.024	
072191	Soil	0.25	17.99	20.38	52.5	48	21.6	9.9	414	2.55	16.0	0.7	3.6	7.7	32.5	0.07	0.38	0.28	9	0.35	0.044	
072192	Soil	0.46	17.00	29.42	66.6	48	23.5	13.5	597	3.72	11.6	1.2	0.6	7.3	40.9	0.06	0.38	0.35	30	0.43	0.035	
072193	Soil	0.33	43.64	18.26	65.9	119	27.5	9.8	385	2.50	12.2	1.9	4.0	2.3	122.3	0.12	0.49	0.28	11	1.76	0.077	
072194	Soil	0.41	16.81	19.57	57.7	40	18.7	10.1	375	2.54	28.1	1.6	1.7	4.3	62.0	0.18	0.40	0.29	14	0.79	0.023	
072195	Soil	0.67	13.79	16.82	42.1	18	11.4	7.4	164	3.05	34.8	0.5	1.3	5.9	11.7	0.18	0.48	0.34	25	0.09	0.020	
072196	Soil	0.47	6.20	9.64	29.8	28	6.0	2.9	96	1.49	9.8	0.4	1.2	4.7	6.5	0.08	0.24	0.31	28	0.05	0.027	
072197	Soil	0.29	26.34	20.03	76.4	104	26.7	9.7	328	2.81	12.8	1.3	1.7	3.3	113.3	0.12	0.33	0.31	11	1.62	0.066	
072198	Soil	0.52	33.34	21.15	49.4	102	24.0	9.1	747	2.74	28.2	3.9	1.9	1.7	91.6	0.21	0.57	0.29	12	1.33	0.055	
072199	Soil	0.40	9.82	13.40	36.5	46	16.1	6.9	144	2.46	22.5	0.5	1.9	6.8	6.1	0.04	0.20	0.25	17	0.03	0.021	
072200	Soil	0.28	7.77	10.76	29.2	41	13.3	5.3	115	2.17	8.0	0.4	1.1	6.0	5.8	0.02	0.12	0.20	16	0.02	0.018	
072391	Soil	0.32	24.89	21.51	59.3	83	25.2	11.0	485	2.79	17.6	1.1	3.2	4.9	83.7	0.10	0.46	0.30	10	1.30	0.051	
072392	Soil	0.33	31.08	33.36	76.4	69	33.5	16.6	461	3.72	26.6	1.3	3.3	8.4	69.5	0.08	0.47	0.44	14	0.99	0.036	
072393	Soil	0.29	33.69	26.36	74.4	97	32.0	12.5	579	3.08	13.6	0.8	2.5	7.3	114.6	0.08	0.31	0.37	11	1.82	0.057	
072394	Soil	0.55	23.92	21.68	61.5	69	28.9	10.7	415	2.79	13.6	1.4	2.0	5.7	133.3	0.10	0.36	0.30	9	2.15	0.047	
072395	Soil	0.42	21.27	31.06	72.8	72	33.2	14.3	1043	3.73	18.1	1.4	2.2	9.3	80.5	0.10	0.33	0.36	11	1.21	0.071	
072396	Soil	0.64	14.86	14.49	55.1	81	13.4	7.2	526	2.64	20.8	1.5	2.4	3.4	52.6	0.15	0.33	0.30	19	0.72	0.024	
072397	Soil	0.47	39.12	24.29	74.1	96	30.9	12.8	662	3.46	24.4	4.7	4.1	5.7	67.7	0.12	0.65	0.36	12	0.93	0.059	
072398	Soil	0.58	22.44	24.02	108.7	39	30.3	11.3	459	3.60	35.6	1.9	1.2	4.7	52.9	0.15	0.59	0.34	13	0.68	0.044	
072399	Soil	0.40	4.96	7.53	18.9	22	4.8	1.8	48	1.28	16.7	0.3	0.7	3.2	4.5	0.05	0.13	0.20	15	0.03	0.013	
072400	Soil	0.18	5.12	4.32	13.3	92	4.0	2.9	237	0.66	2.4	0.7	0.5	0.2	21.5	0.03	0.05	0.07	8	0.29	0.043	



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000275.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
072181	Soil	8.5	6.8	0.11	43.7	0.008	<1	0.88	0.018	0.05	<0.1	0.8	0.04	<0.02	31	0.2	<0.02	3.0	1.06	<0.1	<0.02
072182	Soil	26.3	16.0	0.32	80.2	0.001	<1	1.49	0.006	0.07	<0.1	1.7	0.07	<0.02	12	0.2	0.02	3.9	0.72	<0.1	0.07
072183	Soil	26.3	18.5	0.42	44.9	0.003	<1	1.42	0.005	0.05	<0.1	1.2	0.05	<0.02	7	<0.1	0.04	4.8	0.73	<0.1	<0.02
072184	Soil	24.5	14.1	0.23	37.0	0.009	<1	0.97	0.005	0.04	0.1	1.1	0.07	<0.02	9	<0.1	<0.02	3.8	1.16	<0.1	<0.02
072185	Soil	29.7	21.6	0.64	41.6	0.002	<1	1.57	0.003	0.04	<0.1	1.4	0.05	<0.02	9	0.2	0.03	4.6	0.64	<0.1	0.08
072186	Soil	13.9	15.3	0.23	63.7	0.006	<1	1.10	0.006	0.03	0.1	1.6	0.07	0.03	16	0.3	0.04	4.1	0.73	<0.1	<0.02
072187	Soil	21.6	20.2	0.48	88.0	0.002	2	1.60	0.008	0.11	<0.1	2.6	0.06	0.03	26	0.2	0.05	4.2	0.81	<0.1	0.09
072188	Soil	14.3	14.9	0.34	75.3	0.003	2	1.23	0.008	0.08	<0.1	1.7	0.05	0.05	27	0.2	0.03	3.0	0.51	<0.1	0.05
072189	Soil	15.5	14.2	0.30	51.0	0.005	1	1.00	0.009	0.06	<0.1	1.6	0.04	0.04	24	0.3	0.04	2.8	0.47	<0.1	<0.02
072190	Soil	23.9	19.2	0.41	43.8	0.002	<1	1.35	0.007	0.05	<0.1	1.8	0.04	<0.02	17	0.1	0.03	3.5	1.41	<0.1	0.04
072191	Soil	22.3	15.1	0.36	44.7	0.003	2	1.12	0.004	0.06	<0.1	2.5	0.03	<0.02	17	<0.1	0.03	2.9	0.43	<0.1	0.07
072192	Soil	20.9	21.9	0.59	78.4	0.026	2	1.69	0.008	0.13	0.1	2.4	0.13	0.02	17	<0.1	0.04	5.3	2.22	<0.1	0.02
072193	Soil	12.3	17.8	0.39	72.7	0.005	4	1.32	0.011	0.08	<0.1	2.2	0.07	0.10	86	1.3	0.05	3.6	1.20	<0.1	0.05
072194	Soil	15.1	16.0	0.34	55.9	0.009	1	1.31	0.014	0.07	0.1	1.8	0.05	0.02	20	0.3	0.04	3.3	0.86	<0.1	0.02
072195	Soil	21.5	12.7	0.12	39.8	0.009	<1	0.88	0.004	0.03	0.2	0.8	0.05	<0.02	13	<0.1	0.04	4.4	0.44	<0.1	0.03
072196	Soil	22.3	8.8	0.11	38.2	0.017	<1	0.77	0.004	0.02	0.2	0.7	0.09	<0.02	10	<0.1	0.03	5.1	0.40	<0.1	<0.02
072197	Soil	14.0	18.4	0.46	65.8	0.005	3	1.50	0.010	0.07	<0.1	2.3	0.06	0.07	56	1.1	0.02	3.7	1.00	<0.1	0.05
072198	Soil	12.0	17.5	0.41	33.9	0.008	2	1.14	0.008	0.03	0.1	1.8	0.04	0.08	52	0.7	0.03	3.1	0.60	<0.1	0.02
072199	Soil	25.7	16.7	0.33	58.1	0.009	1	1.52	0.005	0.05	0.1	1.4	0.07	<0.02	18	<0.1	0.03	5.2	0.91	<0.1	0.05
072200	Soil	21.6	15.4	0.32	49.9	0.012	1	1.52	0.004	0.05	0.2	1.5	0.08	<0.02	20	<0.1	0.02	4.6	0.88	<0.1	0.04
072391	Soil	17.5	16.8	0.38	63.2	0.003	2	1.25	0.009	0.07	<0.1	2.3	0.05	0.04	30	0.7	0.04	3.1	0.62	<0.1	0.04
072392	Soil	24.3	22.1	0.56	54.2	0.004	<1	1.67	0.005	0.07	<0.1	3.3	0.06	0.02	28	0.3	0.05	4.6	0.83	<0.1	0.04
072393	Soil	22.3	20.7	0.56	56.3	0.003	2	1.45	0.006	0.06	<0.1	3.1	0.04	0.03	28	0.2	0.05	3.8	0.66	<0.1	0.04
072394	Soil	15.9	20.1	0.48	49.3	0.003	2	1.27	0.008	0.06	<0.1	2.1	0.05	0.05	32	0.5	0.02	3.3	0.59	<0.1	0.04
072395	Soil	26.8	22.0	0.61	58.7	0.002	2	1.54	0.005	0.05	<0.1	3.7	0.04	0.03	23	0.3	0.03	3.8	0.53	<0.1	0.07
072396	Soil	15.9	14.3	0.21	41.5	0.006	<1	0.97	0.008	0.04	0.2	1.1	0.06	<0.02	10	0.1	0.04	4.1	0.48	<0.1	<0.02
072397	Soil	18.6	21.5	0.46	79.2	0.003	2	1.48	0.006	0.09	<0.1	2.7	0.06	0.06	48	1.0	0.05	3.7	0.84	<0.1	0.07
072398	Soil	15.3	25.9	0.58	39.4	0.005	2	1.53	0.007	0.05	<0.1	1.9	0.04	0.04	21	0.5	0.04	3.8	0.67	<0.1	0.02
072399	Soil	20.1	8.2	0.12	26.2	0.006	<1	0.81	0.005	0.03	0.1	0.6	0.06	<0.02	15	<0.1	0.02	3.6	0.49	<0.1	<0.02
072400	Soil	7.3	5.6	0.08	47.0	0.013	<1	0.82	0.033	0.03	<0.1	0.5	0.04	0.02	26	0.2	<0.02	2.4	0.39	<0.1	<0.02



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
072181	Soil	0.39	9.3	0.7	<0.05	1.1	0.91	15.9	<0.02	<1	0.3	15.4	<10	<2
072182	Soil	0.22	10.1	0.4	<0.05	3.4	2.49	50.8	<0.02	<1	0.7	34.0	<10	<2
072183	Soil	0.30	5.5	1.2	<0.05	1.6	1.70	49.5	<0.02	<1	0.2	35.6	<10	<2
072184	Soil	0.67	10.0	1.1	<0.05	0.4	1.71	48.9	<0.02	<1	0.2	25.6	<10	<2
072185	Soil	0.23	5.7	0.4	<0.05	3.3	2.80	53.3	0.03	<1	0.3	68.7	<10	<2
072186	Soil	1.09	5.8	0.8	<0.05	0.9	4.50	29.6	<0.02	<1	0.6	29.8	<10	<2
072187	Soil	0.42	7.3	0.4	<0.05	4.1	5.99	39.8	0.03	<1	0.4	43.0	<10	<2
072188	Soil	0.40	5.6	0.3	<0.05	1.6	6.40	26.2	<0.02	<1	0.4	29.5	<10	<2
072189	Soil	0.41	5.1	0.8	<0.05	1.7	4.62	30.4	<0.02	<1	0.4	28.3	<10	<2
072190	Soil	0.34	6.0	1.3	<0.05	1.9	3.21	46.1	<0.02	<1	0.5	44.6	<10	<2
072191	Soil	0.27	4.4	0.4	<0.05	1.9	7.21	40.7	0.02	<1	0.4	30.8	<10	<2
072192	Soil	1.83	17.4	0.9	<0.05	1.1	3.97	43.6	0.03	<1	0.5	63.7	<10	<2
072193	Soil	0.62	7.9	0.8	<0.05	1.9	8.23	21.2	<0.02	<1	0.7	36.3	<10	<2
072194	Soil	0.83	9.4	0.7	<0.05	1.8	4.01	29.3	0.02	<1	0.4	45.3	<10	<2
072195	Soil	1.08	5.4	0.8	<0.05	2.0	1.74	40.0	0.03	<1	0.3	13.1	<10	<2
072196	Soil	0.93	3.5	1.0	<0.05	0.4	1.86	41.6	<0.02	<1	0.1	6.9	<10	<2
072197	Soil	0.85	8.6	0.7	<0.05	2.1	8.02	24.6	0.03	<1	0.5	43.7	<10	<2
072198	Soil	0.61	4.7	0.7	<0.05	0.9	5.32	22.5	0.03	<1	0.2	31.8	<10	<2
072199	Soil	0.68	9.5	0.7	<0.05	2.9	2.07	46.9	<0.02	<1	0.4	31.5	<10	<2
072200	Soil	0.96	8.5	0.5	<0.05	2.8	2.19	41.6	<0.02	<1	0.4	29.2	<10	<2
072391	Soil	0.32	5.5	0.5	<0.05	2.0	7.26	33.7	0.02	<1	0.3	37.8	<10	<2
072392	Soil	0.54	7.0	0.4	<0.05	2.0	9.25	45.2	0.03	<1	0.6	61.9	<10	<2
072393	Soil	0.29	5.7	0.9	<0.05	1.7	9.42	41.7	0.03	<1	0.4	48.1	<10	<2
072394	Soil	0.30	5.1	0.5	<0.05	2.1	7.00	29.9	0.02	<1	0.5	43.1	<10	<2
072395	Soil	0.19	4.2	0.7	<0.05	2.2	11.37	57.4	0.04	<1	0.9	52.2	<10	<2
072396	Soil	0.89	5.4	0.6	<0.05	0.7	2.10	27.7	<0.02	<1	0.1	22.5	<10	<2
072397	Soil	0.35	7.0	0.7	<0.05	2.4	8.05	34.2	0.03	<1	0.4	41.9	<10	<2
072398	Soil	0.40	9.7	0.8	<0.05	1.2	3.21	28.3	0.03	<1	0.4	51.8	<10	<2
072399	Soil	0.58	6.4	0.6	<0.05	0.2	1.30	37.1	<0.02	<1	<0.1	10.6	<10	<2
072400	Soil	0.26	4.4	0.3	<0.05	0.1	2.41	11.8	<0.02	<1	<0.1	6.4	<10	<2



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**Project:** None Given  
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# CERTIFICATE OF ANALYSIS

# WHI16000275.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
		MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01
072301	Soil	0.28	30.53	22.97	71.2	91	32.9	12.2	419	3.26	22.1	0.7	2.4	11.0	48.7	0.05	0.61	0.32	12	0.72	0.038
072302	Soil	0.28	29.65	25.44	70.7	29	31.6	11.9	461	3.45	25.2	0.7	2.8	10.7	25.2	0.02	0.60	0.35	11	0.25	0.044
072303	Soil	0.28	29.94	24.74	67.7	82	29.0	12.1	402	3.14	23.0	0.8	5.5	9.6	50.7	0.05	0.61	0.34	11	0.71	0.041
072304	Soil	0.31	29.85	23.60	71.0	49	29.7	14.8	503	3.19	24.1	0.6	2.0	12.1	128.7	0.03	0.58	0.36	16	2.34	0.045
072305	Soil	0.32	21.65	20.87	57.6	45	28.3	11.5	410	3.10	19.3	1.0	1.7	8.9	35.9	0.05	0.46	0.30	12	0.44	0.023
072306	Soil	0.28	19.10	36.62	82.1	83	33.8	13.8	645	4.21	9.9	1.1	1.1	7.0	69.0	0.06	0.24	0.36	14	0.95	0.037
072307	Soil	0.62	48.25	56.64	101.9	107	49.1	26.3	498	4.41	14.1	1.3	1.4	8.9	107.8	0.10	0.50	0.62	10	1.53	0.051
072308	Soil	0.28	40.66	28.30	104.1	91	43.6	16.5	453	4.21	9.9	1.6	1.4	6.1	54.1	0.15	0.21	0.47	13	0.66	0.049
072309	Soil	0.29	41.21	23.72	70.9	96	31.9	12.8	447	2.93	14.2	1.3	1.2	3.4	109.5	0.07	0.43	0.35	11	1.70	0.058
072310	Soil	0.38	34.58	26.33	71.1	91	31.6	12.1	402	3.37	22.5	2.3	4.5	5.3	64.3	0.07	0.45	0.37	11	0.77	0.061
072311	Soil	0.41	8.77	18.28	68.4	13	24.8	12.4	187	2.76	12.4	0.5	0.4	7.8	8.2	0.02	0.17	0.20	17	0.06	0.016
072312	Soil	0.60	21.38	27.30	69.5	24	27.6	13.7	332	3.57	171.6	1.3	34.4	7.1	28.1	0.04	0.48	0.40	16	0.32	0.024
072313	Soil	0.25	26.30	22.29	67.5	74	25.9	10.4	226	2.68	12.7	0.8	2.9	8.3	44.3	0.05	0.34	0.33	10	0.58	0.050
072314	Soil	0.29	31.55	24.32	79.3	86	28.7	13.0	174	2.69	21.9	2.7	4.7	6.9	72.5	0.18	0.42	0.34	12	1.05	0.048
072315	Soil	0.54	41.25	39.29	86.2	120	35.2	12.1	516	3.92	36.8	5.3	3.9	7.1	55.5	0.37	0.65	0.49	13	0.84	0.072
072316	Soil	0.31	19.61	14.42	55.9	36	25.3	8.8	212	3.01	24.2	0.5	1.7	7.2	8.8	0.02	0.28	0.28	14	0.07	0.020
072317	Soil	0.35	18.06	15.48	55.6	29	25.7	9.5	320	2.90	20.1	0.4	1.1	7.6	16.8	0.02	0.27	0.27	16	0.13	0.020
072318	Soil	0.27	18.36	13.78	56.0	33	26.4	9.1	277	2.99	21.2	0.5	0.9	7.5	16.8	0.02	0.30	0.26	15	0.13	0.018
072319	Soil	0.36	28.91	22.08	67.9	30	33.2	9.8	237	3.43	15.0	0.8	1.2	11.3	30.7	0.02	0.33	0.35	15	0.27	0.016
072320	Soil	0.24	19.27	16.62	59.2	52	22.3	9.0	593	2.69	13.8	1.0	1.4	4.9	87.0	0.08	0.27	0.26	11	1.22	0.044
072321	Soil	0.23	18.26	18.47	55.7	36	24.6	9.6	394	2.84	22.9	0.8	2.0	7.0	29.1	0.05	0.33	0.28	13	0.29	0.028
072322	Soil	0.27	24.26	21.91	61.8	66	25.7	11.6	471	2.98	19.3	0.9	1.5	5.7	61.9	0.08	0.41	0.29	13	0.76	0.039
072326	Soil	0.38	13.69	15.33	51.7	8	19.1	7.1	164	2.91	16.3	0.4	0.2	6.8	6.0	0.07	0.39	0.30	16	0.04	0.017
072327	Soil	0.50	18.05	23.85	64.0	11	25.7	11.3	223	3.62	25.9	0.6	2.4	9.0	8.6	0.05	0.53	0.36	16	0.04	0.018
072328	Soil	0.58	23.07	20.30	58.3	23	22.5	9.2	189	2.95	24.0	0.8	2.5	6.9	26.5	0.07	0.46	0.36	13	0.28	0.026
072329	Soil	0.56	22.32	36.80	76.9	39	29.0	14.8	583	4.40	32.6	0.9	1.4	6.8	14.8	0.09	0.61	0.46	13	0.09	0.039
072330	Soil	0.29	27.31	22.30	63.8	55	30.0	11.0	301	3.18	21.0	0.8	2.3	9.5	42.0	0.07	0.46	0.30	11	0.53	0.028
072401	Soil	0.45	11.46	15.04	37.8	28	18.3	6.8	170	2.55	14.5	0.5	1.1	5.7	4.8	<0.01	0.15	0.23	20	0.03	0.029
072402	Soil	0.28	31.64	21.63	82.6	62	36.1	14.4	462	3.56	32.6	1.8	3.7	8.4	26.0	0.07	0.50	0.30	12	0.32	0.043
072403	Soil	0.38	12.50	13.35	60.3	176	11.9	8.3	1248	2.13	8.1	0.4	<0.2	3.1	19.0	0.17	0.13	0.23	18	0.13	0.034



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000275.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
072301	Soil	31.3	21.1	0.48	62.6	0.002	1	1.57	0.005	0.13	<0.1	3.0	0.06	<0.02	30	0.2	0.04	3.6	0.78	<0.1	0.06
072302	Soil	29.2	20.6	0.48	60.8	0.002	2	1.52	0.004	0.10	<0.1	2.6	0.04	<0.02	15	<0.1	0.05	3.7	0.74	<0.1	0.04
072303	Soil	26.7	19.7	0.45	62.1	0.003	1	1.45	0.007	0.10	0.1	2.6	0.06	<0.02	28	0.3	0.02	3.7	0.71	<0.1	0.07
072304	Soil	28.4	22.3	0.54	55.1	0.007	1	1.82	0.029	0.21	<0.1	2.9	0.08	<0.02	15	<0.1	0.06	4.4	0.89	<0.1	0.14
072305	Soil	25.6	20.2	0.44	65.7	0.002	<1	1.47	0.006	0.09	<0.1	2.5	0.05	<0.02	17	0.2	0.04	3.8	0.66	<0.1	0.05
072306	Soil	27.7	25.7	0.69	49.9	0.006	1	1.72	0.005	0.03	<0.1	5.0	0.03	0.03	31	0.3	0.02	4.7	0.68	<0.1	0.03
072307	Soil	28.4	23.3	0.69	33.1	0.002	1	1.61	0.005	0.04	<0.1	3.7	0.05	0.03	58	0.4	0.07	4.2	0.87	<0.1	0.05
072308	Soil	27.7	27.2	0.82	41.8	0.004	<1	1.92	0.004	0.04	<0.1	4.5	0.03	0.02	37	0.3	0.02	5.0	1.05	<0.1	0.03
072309	Soil	17.3	19.5	0.48	63.0	0.003	2	1.32	0.006	0.07	0.1	2.5	0.04	0.05	65	0.8	0.04	3.5	0.80	<0.1	0.05
072310	Soil	20.3	20.0	0.47	57.4	0.002	1	1.40	0.007	0.06	<0.1	2.9	0.04	0.04	49	0.7	0.04	3.7	0.80	<0.1	0.05
072311	Soil	25.5	20.3	0.39	82.0	0.007	1	2.01	0.004	0.06	0.1	1.8	0.07	<0.02	12	<0.1	0.03	4.5	1.04	<0.1	0.08
072312	Soil	19.1	20.4	0.42	47.2	0.010	1	1.48	0.007	0.04	0.2	1.7	0.07	<0.02	11	0.2	0.04	3.7	1.13	<0.1	0.02
072313	Soil	19.9	17.3	0.43	48.4	0.004	1	1.23	0.006	0.06	<0.1	2.5	0.04	0.02	28	0.5	0.03	3.4	0.54	<0.1	0.08
072314	Soil	13.0	19.7	0.47	58.2	0.004	3	1.38	0.006	0.07	<0.1	2.6	0.05	0.24	53	1.1	0.04	3.7	0.74	<0.1	0.10
072315	Soil	13.5	24.3	0.59	54.1	0.005	<1	1.68	0.005	0.03	<0.1	3.2	0.03	0.13	26	0.6	0.05	4.1	0.65	<0.1	0.10
072316	Soil	21.9	19.7	0.47	54.3	0.004	<1	1.53	0.003	0.07	0.1	1.6	0.06	<0.02	11	<0.1	0.05	4.1	0.72	<0.1	0.03
072317	Soil	25.7	21.8	0.46	73.7	0.003	<1	1.70	0.005	0.13	<0.1	1.7	0.07	<0.02	8	<0.1	0.04	4.5	0.75	<0.1	0.03
072318	Soil	25.7	21.9	0.47	72.6	0.002	<1	1.71	0.005	0.12	<0.1	1.8	0.06	<0.02	12	0.1	0.03	4.3	0.79	<0.1	<0.02
072319	Soil	30.6	26.8	0.57	66.1	0.001	<1	2.02	0.006	0.17	<0.1	2.1	0.07	<0.02	16	0.1	0.03	5.0	0.84	<0.1	0.07
072320	Soil	13.9	17.8	0.43	60.7	0.005	1	1.39	0.009	0.08	<0.1	2.2	0.05	0.07	28	0.6	0.02	3.6	0.74	<0.1	0.04
072321	Soil	22.2	18.7	0.45	43.7	0.007	<1	1.34	0.006	0.09	0.1	2.3	0.05	<0.02	9	<0.1	0.03	3.5	0.65	<0.1	0.04
072322	Soil	21.7	19.6	0.46	53.8	0.006	1	1.40	0.006	0.09	<0.1	2.5	0.06	0.02	21	0.3	0.05	3.7	0.67	<0.1	0.03
072326	Soil	26.0	15.6	0.33	31.4	0.004	<1	1.17	0.003	0.05	0.1	1.1	0.04	<0.02	7	<0.1	0.05	4.1	0.64	<0.1	0.02
072327	Soil	27.3	20.4	0.43	37.7	0.003	<1	1.53	0.003	0.06	<0.1	1.4	0.06	<0.02	6	<0.1	0.03	4.7	0.91	<0.1	0.05
072328	Soil	20.4	17.3	0.37	55.1	0.003	<1	1.24	0.005	0.04	<0.1	1.4	0.06	<0.02	10	0.1	0.04	4.0	1.02	<0.1	0.02
072329	Soil	15.2	19.0	0.40	38.7	0.003	<1	1.31	0.003	0.03	<0.1	1.5	0.06	0.02	13	0.2	0.07	3.7	1.11	<0.1	<0.02
072330	Soil	22.8	19.7	0.44	57.4	0.002	1	1.50	0.004	0.09	<0.1	3.0	0.05	<0.02	19	0.1	0.04	3.6	0.62	<0.1	0.09
072401	Soil	17.3	19.7	0.41	60.8	0.018	<1	1.68	0.005	0.07	0.3	1.9	0.08	<0.02	24	<0.1	0.03	4.9	1.02	<0.1	<0.02
072402	Soil	19.5	23.9	0.68	22.9	0.002	<1	1.60	0.004	0.04	0.2	2.0	<0.02	<0.02	14	0.1	0.06	4.1	0.62	<0.1	0.08
072403	Soil	17.2	13.4	0.24	95.4	0.006	<1	1.25	0.005	0.05	<0.1	1.1	0.06	<0.02	13	<0.1	0.03	4.6	0.73	<0.1	<0.02



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
072301	Soil	0.23	7.0	0.6	<0.05	3.0	7.41	56.5	<0.02	<1	0.3	41.3	<10	<2
072302	Soil	0.17	5.8	0.3	<0.05	2.5	6.05	54.2	0.02	<1	0.4	42.4	<10	<2
072303	Soil	0.33	6.7	0.8	<0.05	2.9	8.09	48.4	0.03	<1	0.5	40.0	<10	<2
072304	Soil	0.18	8.4	0.8	<0.05	7.4	6.16	52.0	0.02	<1	0.5	43.6	<10	<2
072305	Soil	0.32	7.6	0.9	<0.05	2.0	5.85	48.6	0.03	<1	0.5	41.8	<10	<2
072306	Soil	0.34	3.3	0.4	<0.05	1.2	13.09	52.7	0.06	<1	0.8	62.3	<10	<2
072307	Soil	0.13	3.5	0.6	<0.05	2.0	10.97	50.8	0.05	<1	0.8	57.2	<10	<2
072308	Soil	0.23	5.3	0.5	<0.05	1.4	12.31	53.0	0.03	<1	1.1	77.3	<10	<2
072309	Soil	0.35	6.1	0.5	<0.05	1.4	9.11	30.9	0.03	<1	0.5	40.2	<10	<2
072310	Soil	0.31	5.6	0.5	<0.05	1.8	9.41	36.2	0.03	<1	0.3	44.3	<10	<2
072311	Soil	0.62	10.1	0.6	<0.05	3.5	2.83	49.6	0.03	<1	0.6	40.2	<10	<2
072312	Soil	0.74	8.6	0.5	<0.05	1.4	3.19	38.5	0.03	<1	0.3	42.2	<10	<2
072313	Soil	0.34	4.5	0.5	<0.05	3.3	7.24	37.0	0.04	<1	0.5	41.6	<10	<2
072314	Soil	0.58	6.0	0.3	<0.05	4.3	6.86	24.1	<0.02	1	0.5	42.3	<10	<2
072315	Soil	0.37	4.1	0.4	<0.05	3.9	8.41	26.3	0.03	<1	0.7	45.0	<10	<2
072316	Soil	0.38	8.1	0.4	<0.05	1.9	2.50	41.3	0.03	<1	0.5	42.7	<10	<2
072317	Soil	0.25	9.2	1.1	<0.05	1.3	2.55	46.3	0.03	<1	0.3	44.5	<10	<2
072318	Soil	0.26	9.5	0.5	<0.05	1.9	2.53	46.6	<0.02	<1	0.4	44.0	<10	<2
072319	Soil	0.17	9.4	1.4	<0.05	3.6	3.89	54.6	<0.02	<1	0.9	58.1	<10	<2
072320	Soil	0.64	7.5	0.5	<0.05	2.0	5.08	26.3	<0.02	<1	0.4	44.3	<10	<2
072321	Soil	0.51	7.8	0.3	<0.05	1.4	5.33	40.8	0.02	<1	0.4	40.7	<10	<2
072322	Soil	0.55	7.7	0.6	<0.05	1.4	7.14	39.8	<0.02	<1	0.6	42.9	<10	<2
072326	Soil	0.51	7.1	0.4	<0.05	1.1	1.70	46.9	0.02	<1	0.3	30.0	<10	<2
072327	Soil	0.32	11.0	0.5	<0.05	2.8	2.32	51.3	0.03	<1	0.4	45.8	<10	<2
072328	Soil	0.43	8.2	0.8	<0.05	1.3	2.58	37.7	<0.02	<1	0.3	37.6	<10	<2
072329	Soil	0.42	5.1	0.4	<0.05	1.2	2.78	30.3	0.03	<1	0.2	42.3	<10	<2
072330	Soil	0.32	6.4	0.3	<0.05	3.6	7.96	41.2	0.02	<1	0.5	38.9	<10	<2
072401	Soil	0.96	10.2	0.6	<0.05	1.0	2.15	32.6	0.02	<1	0.5	31.2	<10	<2
072402	Soil	0.09	2.4	0.2	<0.05	2.7	5.17	36.0	0.02	<1	0.3	50.9	<10	<2
072403	Soil	0.70	12.0	0.7	<0.05	0.4	1.79	31.5	<0.02	<1	0.3	21.5	<10	<2



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

# WHI16000275.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
072404	Soil	0.28	5.52	9.33	27.7	24	11.4	4.2	121	1.65	6.0	0.4	1.6	6.1	5.1	<0.01	0.08	0.18	14	0.02	0.015
072405	Soil	0.21	4.16	7.31	17.6	34	7.0	2.8	79	1.22	3.7	0.3	<0.2	4.9	3.5	0.03	0.06	0.16	12	0.01	0.013
072406	Soil	0.34	7.19	9.36	28.5	49	11.8	5.1	113	1.81	7.0	0.4	<0.2	5.5	5.1	0.01	0.10	0.15	15	0.02	0.017
072407	Soil	0.25	5.25	7.78	29.5	23	11.6	5.0	106	1.83	7.8	0.3	0.5	4.8	4.3	<0.01	0.09	0.15	13	0.01	0.012
072408	Soil	0.38	7.21	8.44	32.3	34	13.3	4.6	116	2.11	11.4	0.3	0.3	4.6	4.3	<0.01	0.14	0.17	15	0.02	0.015
072409	Soil	0.50	13.72	19.67	61.4	84	23.3	10.4	208	2.89	12.5	0.6	0.8	7.0	8.9	0.04	0.19	0.30	24	0.06	0.016
072410	Soil	0.44	13.07	17.63	61.9	83	19.9	9.5	308	3.03	27.6	0.5	0.4	6.1	9.3	0.03	0.26	0.34	22	0.07	0.030
072271	Soil	0.41	9.12	14.88	51.3	24	23.3	5.2	137	3.41	7.4	0.4	1.3	9.8	10.1	0.01	0.21	0.31	16	0.05	0.017
072272	Soil	0.56	16.23	15.26	71.3	36	24.1	8.1	243	3.78	39.0	0.5	3.6	8.1	8.0	0.04	0.57	0.47	17	0.06	0.033
072273	Soil	0.66	35.60	36.63	87.3	108	30.8	17.4	390	3.40	4.6	0.8	0.9	6.9	26.8	0.14	0.47	0.40	12	0.21	0.033
072274	Soil	0.50	60.38	62.65	121.5	105	61.7	28.0	798	5.65	21.5	1.3	2.6	12.4	93.2	0.06	4.48	0.86	7	1.26	0.038
072275	Soil	0.40	28.41	25.53	61.6	78	30.9	12.8	393	3.10	18.9	0.8	2.3	10.1	74.9	0.07	0.74	0.35	10	1.50	0.051
072276	Soil	0.47	29.98	26.04	71.5	67	34.4	14.0	450	3.51	24.8	1.0	2.9	10.5	54.9	0.05	0.65	0.35	12	0.71	0.046
072277	Soil	0.29	28.87	25.29	70.6	68	33.0	14.4	539	3.30	22.6	1.4	4.1	8.0	52.3	0.05	0.61	0.34	12	0.66	0.035
071811	Soil	0.69	60.62	47.25	140.1	36	42.9	30.7	1123	5.46	9.2	1.1	0.6	11.5	43.5	0.17	0.24	0.78	14	0.40	0.194
071812	Soil	0.63	30.70	23.90	106.1	47	37.9	10.7	135	4.77	17.1	0.8	0.4	12.4	8.6	0.04	0.37	0.53	12	0.03	0.032
071813	Soil	0.59	14.66	16.66	62.9	52	19.5	9.6	234	3.47	13.8	0.6	0.2	7.3	19.3	0.06	0.30	0.35	19	0.09	0.027
071815	Soil	0.72	32.26	43.14	45.4	222	43.4	21.0	886	4.53	12.8	1.6	1.3	7.9	82.3	0.09	1.23	0.70	8	0.94	0.071
071816	Soil	0.33	31.24	28.43	72.8	101	36.7	14.2	537	3.67	28.8	1.3	1.8	8.2	68.4	0.06	0.66	0.41	12	0.69	0.064
071817	Soil	0.43	18.45	24.31	61.5	33	25.8	8.4	301	3.64	26.8	0.6	6.1	8.6	6.4	0.04	0.64	0.37	12	0.04	0.036
071818	Soil	0.36	27.07	23.84	99.2	25	37.1	14.2	115	3.25	6.5	1.0	<0.2	15.5	8.6	0.04	0.15	0.40	8	0.04	0.020
071819	Soil	0.40	13.02	18.71	58.2	34	18.1	9.1	188	3.02	7.6	0.5	<0.2	8.3	18.2	0.05	0.21	0.27	15	0.16	0.019
071820	Soil	0.11	5.37	4.65	16.9	26	2.0	1.0	42	0.41	0.7	0.1	<0.2	<0.1	21.0	0.14	0.07	0.08	6	0.20	0.025
072414	Soil	0.41	7.16	11.07	26.2	34	11.2	4.6	110	2.23	35.3	0.4	0.4	5.4	5.5	<0.01	0.26	0.39	19	0.02	0.023
072415	Soil	0.54	8.83	13.67	43.8	38	14.8	7.5	237	2.43	10.4	0.5	0.6	6.7	6.5	0.02	0.15	0.29	22	0.02	0.019
072416	Soil	0.20	12.28	13.04	36.9	22	20.0	8.0	167	2.04	10.3	0.5	0.6	8.2	7.4	<0.01	0.13	0.20	14	0.02	0.014
072417	Soil	0.21	10.79	14.76	37.2	17	20.7	8.1	167	2.19	9.5	0.5	0.7	7.8	6.9	0.01	0.13	0.20	15	0.02	0.016
072418	Soil	0.26	10.16	14.78	35.6	74	20.3	8.3	152	2.16	10.4	0.6	<0.2	7.9	7.1	<0.01	0.14	0.19	14	0.03	0.021
072419	Soil	0.63	10.93	22.54	68.8	232	23.2	13.0	304	3.41	18.3	1.0	0.7	7.5	25.2	0.12	0.32	0.35	32	0.25	0.024
072420	Soil	0.43	43.71	28.29	97.1	119	30.9	14.8	736	3.69	20.7	2.3	<0.2	7.0	75.4	0.25	0.29	0.47	19	0.82	0.034



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000275.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
072404	Soil	24.5	14.5	0.30	40.2	0.013	<1	1.13	0.003	0.06	0.2	1.3	0.07	<0.02	6	<0.1	<0.02	3.7	0.85	<0.1	<0.02
072405	Soil	20.7	11.3	0.21	38.4	0.011	<1	1.05	0.003	0.04	0.1	1.0	0.07	<0.02	11	<0.1	<0.02	4.1	0.75	<0.1	<0.02
072406	Soil	18.4	15.1	0.28	54.8	0.011	<1	1.40	0.004	0.07	0.1	1.5	0.07	<0.02	22	<0.1	<0.02	4.1	0.81	<0.1	0.03
072407	Soil	18.4	13.7	0.31	44.4	0.011	<1	1.27	0.003	0.06	0.1	1.2	0.06	<0.02	12	<0.1	<0.02	3.9	0.86	<0.1	0.03
072408	Soil	18.0	14.9	0.32	54.4	0.007	<1	1.22	0.005	0.05	0.1	1.2	0.05	<0.02	10	0.2	<0.02	4.4	0.53	<0.1	0.03
072409	Soil	20.7	23.1	0.56	55.6	0.020	<1	1.85	0.004	0.05	0.3	1.9	0.09	<0.02	10	<0.1	0.02	4.9	1.31	<0.1	0.03
072410	Soil	21.8	21.5	0.43	78.6	0.007	<1	1.58	0.004	0.06	0.2	1.6	0.08	<0.02	9	<0.1	0.05	5.3	0.98	<0.1	<0.02
072271	Soil	32.3	23.0	0.56	32.5	0.002	<1	1.65	0.003	0.03	<0.1	1.4	0.05	<0.02	7	<0.1	0.02	5.0	0.88	<0.1	0.02
072272	Soil	29.5	21.1	0.49	30.0	0.003	<1	1.37	0.003	0.03	<0.1	1.2	0.05	<0.02	7	<0.1	0.07	4.9	0.79	<0.1	0.03
072273	Soil	21.7	17.6	0.27	35.2	0.002	<1	1.21	0.007	0.05	<0.1	2.7	0.05	<0.02	36	<0.1	0.03	3.6	1.72	<0.1	0.02
072274	Soil	23.4	14.6	0.27	31.8	<0.001	<1	0.99	0.004	0.04	<0.1	6.7	0.06	0.03	68	0.2	0.07	1.9	1.61	<0.1	0.04
072275	Soil	21.5	17.8	0.40	46.9	0.002	1	1.25	0.005	0.10	<0.1	2.7	0.05	0.02	45	0.3	0.03	3.2	0.69	<0.1	0.08
072276	Soil	24.4	23.0	0.53	83.5	0.002	1	1.65	0.007	0.13	<0.1	2.6	0.06	<0.02	15	0.2	0.04	4.0	0.77	<0.1	0.10
072277	Soil	23.4	21.2	0.50	76.7	0.002	1	1.56	0.005	0.10	<0.1	2.4	0.05	0.02	15	0.3	0.03	4.0	0.71	<0.1	0.07
071811	Soil	35.9	25.4	0.54	32.7	0.002	1	1.69	0.004	0.03	<0.1	3.7	0.04	<0.02	17	0.2	0.04	4.7	0.81	<0.1	0.03
071812	Soil	37.4	22.5	0.58	22.5	0.001	<1	1.61	0.003	0.04	<0.1	1.6	0.04	<0.02	11	<0.1	0.05	4.8	1.07	<0.1	0.04
071813	Soil	30.3	18.5	0.35	59.5	0.004	<1	1.32	0.005	0.05	<0.1	1.1	0.04	<0.02	7	<0.1	0.03	5.1	0.97	<0.1	<0.02
071815	Soil	25.0	13.4	0.22	45.0	0.001	<1	0.93	0.005	0.04	<0.1	7.4	0.05	0.03	61	0.5	0.05	1.7	1.23	<0.1	0.03
071816	Soil	21.8	21.2	0.54	76.0	0.003	1	1.54	0.006	0.07	0.1	2.9	0.04	<0.02	29	0.3	0.05	4.2	0.61	<0.1	0.06
071817	Soil	27.7	18.5	0.45	32.6	0.003	<1	1.32	0.003	0.05	<0.1	1.4	0.04	<0.02	12	<0.1	0.03	3.7	0.81	<0.1	0.02
071818	Soil	35.2	20.5	0.50	48.4	<0.001	<1	1.64	0.003	0.04	<0.1	2.2	0.04	<0.02	29	<0.1	0.03	3.0	1.11	<0.1	0.09
071819	Soil	28.7	15.7	0.29	38.6	0.002	<1	1.26	0.005	0.06	<0.1	1.6	0.05	<0.02	7	<0.1	0.02	3.9	0.91	<0.1	<0.02
071820	Soil	2.1	2.7	0.02	11.2	0.008	1	0.30	0.017	0.02	<0.1	0.3	<0.02	<0.02	21	0.1	<0.02	1.7	0.18	<0.1	<0.02
072414	Soil	19.6	15.1	0.30	54.2	0.011	<1	1.53	0.003	0.04	0.2	1.4	0.07	<0.02	21	0.1	0.03	4.9	0.87	<0.1	0.05
072415	Soil	20.5	20.2	0.44	37.8	0.025	<1	1.45	0.004	0.07	0.2	1.7	0.09	<0.02	8	<0.1	0.03	4.7	1.21	<0.1	0.03
072416	Soil	21.3	17.1	0.40	51.8	0.014	<1	1.62	0.004	0.12	0.1	1.8	0.09	<0.02	10	<0.1	0.03	3.6	0.78	<0.1	0.06
072417	Soil	22.6	18.3	0.42	62.3	0.015	<1	1.76	0.005	0.13	0.1	2.0	0.09	<0.02	10	<0.1	<0.02	3.7	0.89	<0.1	0.06
072418	Soil	21.9	19.1	0.40	61.2	0.011	<1	1.88	0.005	0.10	0.1	2.2	0.09	<0.02	22	<0.1	0.03	3.8	0.89	<0.1	0.07
072419	Soil	20.0	27.2	0.46	49.9	0.019	<1	2.04	0.005	0.05	0.1	1.9	0.08	<0.02	20	0.1	0.04	6.3	1.17	<0.1	0.06
072420	Soil	18.4	26.8	0.45	88.3	0.005	<1	1.85	0.010	0.09	<0.1	3.4	0.09	0.02	12	0.3	0.04	5.3	1.66	<0.1	0.03



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
072404	Soil	0.67	9.9	0.7	<0.05	0.7	2.39	46.4	<0.02	<1	0.2	22.4	<10	<2
072405	Soil	0.77	8.3	0.6	<0.05	0.8	1.83	40.0	<0.02	<1	0.2	19.1	<10	<2
072406	Soil	0.81	10.6	0.7	<0.05	1.9	1.89	35.7	<0.02	<1	0.3	23.8	<10	<2
072407	Soil	0.72	10.1	0.6	<0.05	1.7	1.65	35.2	<0.02	<1	0.3	28.8	<10	<2
072408	Soil	0.65	7.2	0.7	<0.05	1.3	1.39	33.4	<0.02	<1	0.2	24.4	<10	<2
072409	Soil	0.86	10.1	0.7	<0.05	2.1	2.72	39.2	<0.02	<1	0.2	38.8	<10	<2
072410	Soil	0.55	9.2	0.7	<0.05	0.6	2.25	41.0	<0.02	<1	0.4	37.8	<10	<2
072271	Soil	0.21	7.1	0.4	<0.05	1.7	1.97	60.8	<0.02	<1	0.2	58.0	<10	<2
072272	Soil	0.30	6.7	0.6	<0.05	1.4	1.70	55.5	<0.02	<1	<0.1	39.2	<10	<2
072273	Soil	0.21	6.3	1.0	<0.05	1.0	6.60	46.4	0.03	<1	0.8	45.0	<10	<2
072274	Soil	0.04	4.3	0.7	<0.05	1.5	15.79	51.3	0.05	<1	0.7	38.6	<10	<2
072275	Soil	0.21	6.0	0.7	<0.05	3.6	7.63	41.2	0.04	<1	0.5	33.7	<10	<2
072276	Soil	0.20	6.7	1.2	<0.05	4.0	6.43	46.3	0.02	<1	0.6	44.5	<10	<2
072277	Soil	0.22	6.4	0.4	<0.05	2.4	6.79	43.2	<0.02	<1	0.6	45.0	<10	<2
071811	Soil	0.14	3.3	0.8	<0.05	1.8	9.09	69.2	0.05	<1	0.6	62.9	<10	<2
071812	Soil	0.13	7.1	0.4	<0.05	2.9	2.45	64.3	<0.02	<1	0.4	60.8	<10	<2
071813	Soil	0.43	8.8	0.7	<0.05	0.6	2.18	57.1	0.03	<1	0.4	40.9	<10	<2
071815	Soil	0.11	5.1	0.7	<0.05	1.1	35.89	55.1	0.11	<1	0.9	24.5	<10	<2
071816	Soil	0.26	4.3	0.6	<0.05	2.5	7.01	42.2	0.03	<1	0.5	44.0	<10	<2
071817	Soil	0.34	6.7	0.4	<0.05	1.4	2.61	52.7	0.03	<1	0.5	36.9	<10	<2
071818	Soil	0.06	7.4	0.3	<0.05	4.8	4.71	68.6	0.05	<1	0.7	67.2	<10	<2
071819	Soil	0.20	8.8	0.6	<0.05	1.9	2.68	55.5	<0.02	<1	0.5	35.8	<10	<2
071820	Soil	0.24	1.1	0.3	<0.05	0.1	0.63	4.3	<0.02	<1	0.2	1.3	<10	<2
072414	Soil	1.02	9.1	0.6	<0.05	2.3	1.79	37.6	0.02	<1	0.4	28.6	<10	<2
072415	Soil	0.47	12.3	0.7	<0.05	2.0	2.74	38.9	<0.02	<1	0.3	27.4	<10	<2
072416	Soil	0.36	10.8	0.5	<0.05	3.0	3.11	42.7	0.02	<1	0.4	26.3	<10	<2
072417	Soil	0.42	11.6	0.5	<0.05	3.0	3.49	43.7	<0.02	<1	0.6	29.0	<10	<2
072418	Soil	0.71	11.3	0.4	<0.05	2.9	3.94	42.5	<0.02	<1	0.6	31.4	<10	<2
072419	Soil	1.28	11.3	0.9	<0.05	2.9	2.53	39.7	0.02	<1	0.3	43.9	<10	<2
072420	Soil	0.88	16.6	0.7	<0.05	1.2	5.79	35.4	0.03	<1	1.2	69.8	<10	<2



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

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Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P
Unit		ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%
MDL		0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001
072411	Soil	0.19	23.03	19.17	59.3	22	29.3	11.5	286	3.11	17.8	0.6	1.7	10.4	13.5	0.03	0.33	0.28	13	0.10	0.022
AA073691	Soil	0.34	14.02	13.30	51.6	19	23.1	9.5	266	2.87	11.9	0.6	<0.2	6.0	16.0	0.03	0.24	0.21	16	0.12	0.022
AA073692	Soil	0.36	29.12	22.66	51.5	104	24.4	10.3	541	2.62	16.6	2.3	2.8	2.9	103.8	0.12	0.48	0.27	14	1.08	0.050
AA073693	Soil	0.34	16.34	18.45	56.0	40	23.9	11.0	345	3.04	12.9	1.4	<0.2	7.8	57.1	0.08	0.29	0.29	16	0.42	0.018
AA073694	Soil	0.44	28.14	25.48	74.6	77	21.4	12.5	768	2.97	15.9	4.9	<0.2	2.3	110.4	0.29	0.41	0.34	15	1.19	0.050
AA073695	Soil	0.38	35.51	26.87	93.6	30	42.6	24.5	487	3.98	6.1	1.0	0.7	11.6	9.2	0.11	0.30	0.39	14	0.16	0.047
AA073696	Soil	0.48	29.31	22.42	57.3	33	29.5	11.9	365	3.37	7.0	0.7	<0.2	4.5	4.5	0.07	0.38	0.38	19	0.03	0.056
AA073697	Soil	0.48	26.87	27.90	56.6	102	37.1	15.9	427	3.95	8.8	0.9	<0.2	8.4	6.6	0.04	0.55	0.41	15	0.07	0.059
AA073698	Soil	0.49	24.94	18.73	60.5	44	30.6	10.2	259	3.53	7.1	0.9	0.3	4.8	5.7	0.10	0.42	0.39	17	0.06	0.084
AA073699	Soil	0.82	19.94	25.05	53.2	57	19.4	9.2	379	2.85	5.5	0.9	<0.2	1.5	5.4	0.16	0.37	0.29	18	0.03	0.121
AA073700	Soil	0.84	17.27	24.60	62.3	36	21.4	8.2	281	2.84	11.9	0.7	0.3	1.1	5.4	0.15	0.63	0.32	22	0.03	0.063
AA073501	Soil	0.24	24.19	17.75	58.8	108	28.9	11.3	455	3.00	23.0	1.6	1.8	4.5	74.8	0.15	0.38	0.28	14	1.34	0.047
AA073502	Soil	0.42	17.99	20.36	61.7	11	22.7	9.2	288	3.55	20.6	0.8	1.3	7.6	16.6	0.04	0.41	0.36	18	0.15	0.019
AA073503	Soil	0.29	22.18	15.65	56.9	42	25.4	10.7	431	2.68	20.2	0.6	2.3	8.6	20.8	0.03	0.39	0.23	13	0.28	0.045
AA073504	Soil	0.31	23.32	17.40	51.5	50	24.5	9.7	353	2.81	24.8	2.1	2.6	3.4	89.6	0.11	0.51	0.32	12	1.54	0.040
AA073505	Soil	0.64	27.22	18.76	61.5	91	27.3	10.7	451	2.74	28.6	1.0	4.2	4.3	63.2	0.10	0.54	0.26	11	1.03	0.045
AA073506	Soil	0.30	28.51	16.72	54.0	77	21.7	9.1	367	2.29	25.6	1.1	3.1	5.0	42.0	0.09	0.44	0.22	11	0.73	0.047
AA073507	Soil	0.36	41.03	40.03	101.3	137	38.7	19.1	327	3.54	9.2	12.2	1.3	10.1	37.3	0.07	0.55	0.40	10	0.54	0.066
AA073508	Soil	0.94	38.30	47.59	115.5	90	33.1	24.2	1031	3.41	6.9	1.5	0.3	7.4	15.4	0.09	0.39	0.45	9	0.32	0.093
AA073509	Soil	0.35	30.93	22.71	75.9	62	45.3	18.2	752	3.56	10.9	2.2	2.5	15.5	20.4	0.03	0.32	0.41	10	0.23	0.056



Bureau Veritas Commodities Canada Ltd.

9050 Shaughnessy St Vancouver British Columbia V6P 6E5 Canada

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**Client:** Golden Predator Mining Corp.  
510 - 580 Hornby Street  
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**Project:** None Given  
**Report Date:** September 27, 2016

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**Part:** 2 of 3

# CERTIFICATE OF ANALYSIS

WHI16000275.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.01	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
072411	Soil	33.1	22.4	0.54	55.2	0.002	<1	1.72	0.004	0.10	<0.1	2.3	0.05	<0.02	10	<0.1	0.03	4.0	0.72	<0.1	0.04
AA073691	Soil	19.6	21.0	0.55	43.5	0.006	<1	1.56	0.004	0.05	0.2	1.7	0.07	<0.02	6	0.1	0.04	4.2	0.84	<0.1	0.03
AA073692	Soil	15.2	20.2	0.49	47.1	0.014	2	1.22	0.009	0.05	0.1	1.7	0.07	0.05	47	0.9	0.03	3.7	0.94	<0.1	<0.02
AA073693	Soil	20.4	22.4	0.53	62.5	0.007	<1	1.54	0.007	0.05	<0.1	2.3	0.07	<0.02	14	0.2	0.02	4.2	0.89	<0.1	0.03
AA073694	Soil	16.2	17.8	0.35	59.8	0.006	1	1.34	0.008	0.05	<0.1	2.1	0.06	0.04	27	0.7	0.03	3.7	1.07	<0.1	<0.02
AA073695	Soil	17.3	27.6	0.73	46.1	0.002	<1	2.12	0.003	0.04	<0.1	1.9	0.04	<0.02	6	0.2	0.03	5.3	0.92	<0.1	0.07
AA073696	Soil	18.2	23.2	0.57	34.2	0.007	<1	1.72	0.004	0.03	<0.1	1.5	0.06	0.03	20	0.2	<0.02	5.1	0.79	<0.1	0.05
AA073697	Soil	22.2	23.9	0.64	38.9	0.003	<1	1.87	0.002	0.03	<0.1	1.7	0.05	<0.02	11	0.3	0.03	4.5	0.68	<0.1	0.06
AA073698	Soil	14.1	26.1	0.61	47.4	0.005	<1	1.85	0.003	0.03	<0.1	1.4	0.05	0.03	21	0.3	0.02	4.9	0.81	<0.1	0.06
AA073699	Soil	11.8	20.0	0.42	51.8	0.004	1	1.66	0.006	0.06	<0.1	0.7	0.13	0.09	42	0.6	0.03	4.6	1.19	<0.1	0.06
AA073700	Soil	20.1	19.2	0.37	44.1	0.008	<1	1.50	0.004	0.05	0.1	0.7	0.08	0.04	21	0.5	0.03	4.0	1.10	<0.1	0.02
AA073501	Soil	17.2	23.9	0.55	50.6	0.006	1	1.43	0.005	0.06	0.2	2.4	0.04	0.03	19	0.5	0.03	3.9	1.02	<0.1	0.04
AA073502	Soil	24.0	23.3	0.46	41.6	0.005	<1	1.66	0.004	0.07	0.1	1.7	0.06	<0.02	14	0.6	0.04	5.5	0.92	<0.1	0.06
AA073503	Soil	22.9	20.5	0.53	31.2	0.010	<1	1.29	0.005	0.09	0.1	1.9	0.07	<0.02	13	0.2	0.04	3.5	0.85	<0.1	0.04
AA073504	Soil	14.3	20.2	0.47	43.5	0.009	2	1.36	0.007	0.05	0.1	2.2	0.06	0.06	24	1.2	0.03	3.7	0.71	<0.1	0.04
AA073505	Soil	14.2	22.1	0.45	32.5	0.007	2	1.11	0.006	0.05	0.2	2.0	0.06	0.05	27	0.8	0.05	3.0	0.86	<0.1	0.04
AA073506	Soil	17.1	17.0	0.41	25.9	0.014	<1	0.98	0.009	0.05	0.2	2.2	0.07	0.03	15	0.6	0.04	2.9	1.05	<0.1	<0.02
AA073507	Soil	18.4	21.9	0.59	39.0	0.002	<1	1.62	0.005	0.06	<0.1	2.4	0.04	0.07	34	0.9	0.02	4.3	1.10	<0.1	0.14
AA073508	Soil	22.1	22.8	0.52	27.9	0.002	<1	1.31	0.003	0.07	<0.1	1.3	0.04	0.08	26	0.5	0.05	3.6	1.02	<0.1	0.08
AA073509	Soil	36.7	21.3	0.60	41.0	0.002	<1	1.61	0.002	0.06	<0.1	1.8	0.04	<0.02	11	0.3	0.03	3.6	1.98	<0.1	0.06



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**Project:** None Given  
**Report Date:** September 27, 2016

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# CERTIFICATE OF ANALYSIS

WHI16000275.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
		Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt
Unit		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb
MDL		0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	2
072411	Soil	0.17	7.4	0.2	<0.05	2.4	5.68	61.5	<0.02	<1	0.5	47.3	<10	<2
AA073691	Soil	0.63	8.9	0.5	<0.05	1.0	2.25	40.5	<0.02	<1	0.5	44.4	<10	<2
AA073692	Soil	1.07	8.5	0.8	<0.05	0.9	5.19	29.9	<0.02	<1	0.4	40.7	<10	<2
AA073693	Soil	0.94	9.5	0.6	<0.05	1.7	3.79	39.7	0.02	<1	0.7	62.5	<10	<2
AA073694	Soil	0.75	9.5	0.5	<0.05	0.7	7.25	30.8	0.02	<1	0.5	40.1	<10	<2
AA073695	Soil	0.11	3.9	0.6	<0.05	2.4	5.72	33.6	0.02	<1	0.7	52.9	<10	<2
AA073696	Soil	0.28	4.9	0.4	<0.05	1.3	3.62	35.5	0.03	<1	0.3	43.5	<10	<2
AA073697	Soil	0.20	4.0	0.3	<0.05	2.2	4.89	47.6	0.05	<1	0.3	52.4	<10	<2
AA073698	Soil	0.29	5.1	0.5	<0.05	2.1	3.88	27.4	0.03	<1	0.3	40.6	<10	<2
AA073699	Soil	0.32	10.1	0.9	<0.05	1.7	3.08	26.5	<0.02	<1	0.3	25.4	<10	<2
AA073700	Soil	0.31	8.5	1.2	<0.05	0.3	3.18	41.8	0.02	<1	0.6	20.7	<10	<2
AA073501	Soil	0.74	7.1	0.5	<0.05	1.3	5.55	32.5	<0.02	<1	0.4	36.8	<10	<2
AA073502	Soil	0.96	7.6	0.5	<0.05	3.3	2.41	45.0	0.03	<1	0.3	33.5	<10	<2
AA073503	Soil	0.55	7.8	0.7	<0.05	2.8	4.95	44.6	0.02	<1	0.3	34.5	<10	<2
AA073504	Soil	0.94	7.0	0.2	<0.05	1.8	5.39	26.6	0.02	<1	0.4	33.1	<10	<2
AA073505	Soil	0.72	6.6	0.4	<0.05	1.4	5.27	25.7	0.02	2	0.3	30.4	<10	<2
AA073506	Soil	0.93	7.8	0.8	<0.05	0.9	5.89	31.5	<0.02	<1	0.3	28.4	<10	<2
AA073507	Soil	0.13	5.8	0.2	<0.05	5.6	11.66	34.2	0.03	<1	0.6	38.2	<10	<2
AA073508	Soil	0.15	7.3	0.8	<0.05	3.0	4.62	44.2	0.02	<1	0.7	28.1	<10	<2
AA073509	Soil	0.05	5.0	1.0	<0.05	2.6	9.61	70.6	<0.02	<1	0.4	36.0	<10	<2



# QUALITY CONTROL REPORT

WHI16000275.1

Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
Analyte	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	
Unit	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%	%	
MDL	0.01	0.01	0.01	0.1	2	0.1	0.1	1	0.01	0.1	0.1	0.2	0.1	0.5	0.01	0.02	0.02	2	0.01	0.001	
Pulp Duplicates																					
072382	Soil	0.32	54.50	22.89	62.2	222	36.3	13.7	618	2.92	5.2	3.2	2.2	2.5	127.8	0.15	0.32	0.37	8	1.68	0.057
REP 072382	QC	0.33	53.77	22.28	59.4	239	35.7	13.1	643	2.92	5.1	3.1	1.9	2.5	127.1	0.13	0.31	0.36	8	1.67	0.056
072188	Soil	0.24	22.22	16.89	46.6	79	22.6	9.2	402	2.37	15.3	1.5	1.6	3.0	98.3	0.10	0.43	0.27	10	1.29	0.040
REP 072188	QC	0.28	23.75	17.37	48.2	82	22.9	9.8	424	2.45	16.4	1.6	1.4	3.1	100.0	0.12	0.44	0.27	10	1.32	0.044
072314	Soil	0.29	31.55	24.32	79.3	86	28.7	13.0	174	2.69	21.9	2.7	4.7	6.9	72.5	0.18	0.42	0.34	12	1.05	0.048
REP 072314	QC	0.35	32.23	24.25	79.6	88	28.6	12.6	174	2.67	22.0	2.6	3.5	6.9	71.9	0.18	0.42	0.33	12	1.04	0.048
071817	Soil	0.43	18.45	24.31	61.5	33	25.8	8.4	301	3.64	26.8	0.6	6.1	8.6	6.4	0.04	0.64	0.37	12	0.04	0.036
REP 071817	QC	0.42	18.50	23.12	61.1	31	25.6	8.3	277	3.64	26.1	0.5	2.1	8.2	6.0	0.06	0.61	0.35	12	0.04	0.034
Reference Materials																					
STD DS10	Standard	14.93	155.64	152.91	362.3	1794	73.8	13.2	904	2.81	46.4	2.6	74.6	7.2	62.1	2.48	9.23	11.77	43	1.07	0.073
STD DS10	Standard	16.30	160.30	148.68	365.9	1713	77.4	13.4	864	2.73	43.0	2.8	65.8	7.7	60.4	2.34	8.59	11.16	43	1.07	0.070
STD DS10	Standard	14.87	157.52	154.83	362.3	1783	76.1	13.2	888	2.78	44.6	2.6	70.0	7.6	60.4	2.53	8.87	11.57	42	1.06	0.072
STD DS10	Standard	15.63	158.19	155.18	360.9	1779	78.9	13.6	873	2.79	45.0	2.7	65.5	7.4	61.0	2.41	8.99	11.65	43	1.07	0.073
STD OXC129	Standard	1.32	28.27	6.32	42.4	9	81.3	21.1	434	3.00	0.6	0.7	204.3	1.8	188.3	0.02	0.03	<0.02	51	0.64	0.094
STD OXC129	Standard	1.36	29.53	6.30	43.2	13	84.8	21.6	429	3.03	0.6	0.7	194.7	1.9	175.4	0.03	0.04	0.04	51	0.64	0.102
STD OXC129	Standard	1.40	27.87	6.58	42.2	8	84.2	21.9	439	3.06	0.8	0.7	194.4	1.9	170.8	0.02	0.03	<0.02	51	0.65	0.100
STD OXC129	Standard	1.36	27.74	6.35	41.4	14	79.9	20.2	413	2.96	0.9	0.7	180.2	1.8	163.6	0.01	0.03	<0.02	49	0.63	0.100
STD DS10 Expected		15.1	154.61	150.55	370	2020	74.6	12.9	875	2.7188	46.2	2.59	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	28	79.5	20.3	421	3.065	0.6	0.72	195	1.9		0.03	0.04		51	0.665	0.102
BLK	Blank	<0.01	<0.01	<0.01	0.1	<2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	<0.01	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	<0.1	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.02	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.2	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001
BLK	Blank	<0.01	0.02	<0.01	<0.1	<2	<0.1	<0.1	<1	<0.01	0.5	<0.1	<0.2	<0.1	<0.5	<0.01	<0.02	<0.02	<2	<0.01	<0.001



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**Project:** None Given  
**Report Date:** September 27, 2016

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Part: 2 of 3

# QUALITY CONTROL REPORT

WHI16000275.1

Method	Analyte	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	
		La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Sc	Tl	S	Hg	Se	Te	Ga	Cs	Ge	Hf
Unit		ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	%	ppb	ppm	ppm	ppm	ppm	ppm	ppm
MDL		0.5	0.5	0.01	0.5	0.001	1	0.01	0.001	0.01	0.1	0.1	0.02	0.02	5	0.1	0.02	0.1	0.02	0.1	0.02
Pulp Duplicates																					
072382	Soil	13.5	16.9	0.44	54.9	0.003	2	1.31	0.004	0.04	<0.1	3.5	0.04	0.06	146	0.6	<0.02	3.3	0.68	<0.1	0.05
REP 072382	QC	13.5	16.5	0.45	53.1	0.003	1	1.30	0.004	0.04	<0.1	3.4	0.04	0.06	129	0.4	<0.02	3.4	0.72	<0.1	0.04
072188	Soil	14.3	14.9	0.34	75.3	0.003	2	1.23	0.008	0.08	<0.1	1.7	0.05	0.05	27	0.2	0.03	3.0	0.51	<0.1	0.05
REP 072188	QC	15.5	15.3	0.36	77.2	0.003	2	1.27	0.008	0.09	0.1	1.9	0.05	0.05	29	0.2	0.05	3.2	0.56	<0.1	0.05
072314	Soil	13.0	19.7	0.47	58.2	0.004	3	1.38	0.006	0.07	<0.1	2.6	0.05	0.24	53	1.1	0.04	3.7	0.74	<0.1	0.10
REP 072314	QC	12.8	19.7	0.46	58.3	0.004	1	1.37	0.005	0.07	<0.1	2.5	0.05	0.24	40	1.1	0.02	3.7	0.74	<0.1	0.12
071817	Soil	27.7	18.5	0.45	32.6	0.003	<1	1.32	0.003	0.05	<0.1	1.4	0.04	<0.02	12	<0.1	0.03	3.7	0.81	<0.1	0.02
REP 071817	QC	26.0	18.4	0.44	30.0	0.003	<1	1.32	0.002	0.05	0.1	1.3	0.04	<0.02	9	<0.1	0.03	3.8	0.76	<0.1	0.04
Reference Materials																					
STD DS10	Standard	17.2	56.4	0.80	348.3	0.073	7	1.08	0.073	0.35	3.5	3.1	5.35	0.29	289	2.3	4.80	4.3	2.70	<0.1	0.05
STD DS10	Standard	17.4	57.4	0.78	352.2	0.076	8	1.05	0.072	0.34	3.2	2.8	5.06	0.28	264	1.8	4.83	4.2	2.61	<0.1	0.04
STD DS10	Standard	17.0	58.0	0.77	349.9	0.078	6	1.03	0.072	0.34	3.1	2.9	5.30	0.29	268	1.9	5.01	4.2	2.64	<0.1	0.06
STD DS10	Standard	16.7	58.3	0.77	358.6	0.081	6	1.03	0.070	0.33	3.5	2.9	5.21	0.29	269	2.3	5.03	4.3	2.64	<0.1	0.06
STD OXC129	Standard	12.5	53.9	1.52	49.7	0.397	<1	1.57	0.618	0.40	<0.1	1.1	0.03	<0.02	<5	<0.1	<0.02	5.5	0.16	<0.1	0.31
STD OXC129	Standard	12.9	54.6	1.54	50.5	0.393	2	1.58	0.622	0.40	<0.1	0.9	0.04	<0.02	8	<0.1	<0.02	5.4	0.16	<0.1	0.25
STD OXC129	Standard	12.3	56.2	1.52	50.5	0.426	1	1.56	0.604	0.39	<0.1	0.9	0.03	<0.02	<5	<0.1	<0.02	5.6	0.16	<0.1	0.29
STD OXC129	Standard	11.9	52.9	1.48	45.6	0.404	<1	1.50	0.579	0.37	<0.1	0.9	0.03	<0.02	<5	<0.1	<0.02	5.1	0.16	0.1	0.27
STD DS10 Expected		17.5	54.6	0.775	359	0.0817		1.0259	0.067	0.338	3.32	3	5.1	0.29	300	2.3	5.01	4.5	2.63	0.08	0.06
STD OXC129 Expected		13	52	1.545	50	0.4	1	1.58	0.6	0.37	0.08	1.1	0.03					5.6	0.16		0.24
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	<0.5	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02
BLK	Blank	<0.5	0.6	<0.01	<0.5	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.1	<0.02	<0.02	<5	<0.1	<0.02	<0.1	<0.02	<0.1	<0.02

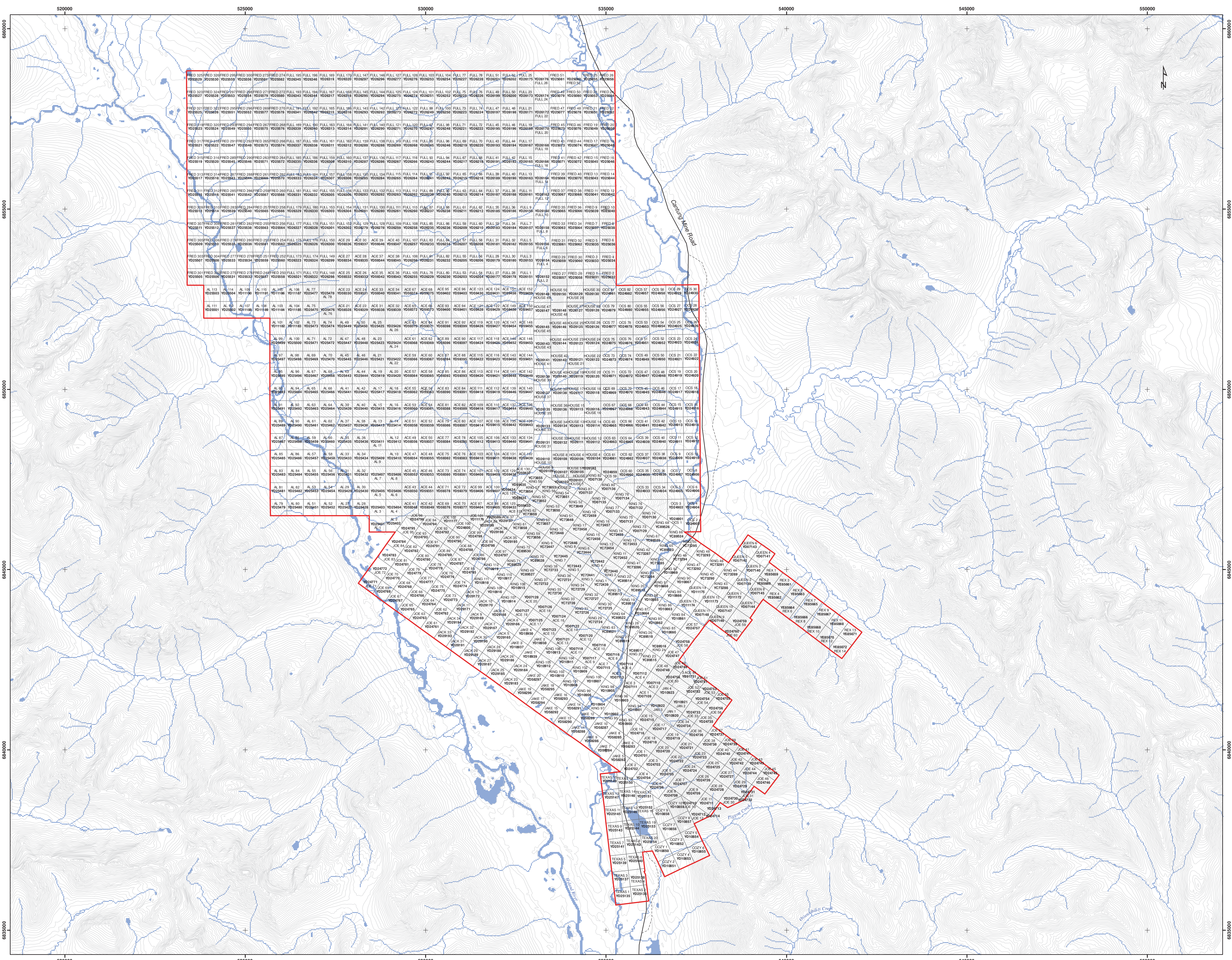


# QUALITY CONTROL REPORT

WHI16000275.1

Method	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251	AQ251
Analyte	Nb	Rb	Sn	Ta	Zr	Y	Ce	In	Re	Be	Li	Pd	Pt	
Unit	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppb	ppb	
MDL	0.02	0.1	0.1	0.05	0.1	0.01	0.1	0.02	1	0.1	0.1	10	10	2
Pulp Duplicates														
072382	Soil	0.22	7.2	1.1	<0.05	1.4	11.20	25.2	0.03	<1	0.8	47.4	<10	<2
REP 072382	QC	0.23	7.2	1.0	<0.05	1.5	10.79	25.4	0.02	<1	0.7	47.0	<10	<2
072188	Soil	0.40	5.6	0.3	<0.05	1.6	6.40	26.2	<0.02	<1	0.4	29.5	<10	<2
REP 072188	QC	0.45	6.1	0.3	<0.05	1.8	6.58	28.2	0.02	<1	0.6	30.1	<10	<2
072314	Soil	0.58	6.0	0.3	<0.05	4.3	6.86	24.1	<0.02	1	0.5	42.3	<10	<2
REP 072314	QC	0.65	6.0	0.4	<0.05	4.3	6.98	24.3	<0.02	2	0.3	42.3	<10	<2
071817	Soil	0.34	6.7	0.4	<0.05	1.4	2.61	52.7	0.03	<1	0.5	36.9	<10	<2
REP 071817	QC	0.33	6.3	0.3	<0.05	1.4	2.48	49.8	0.02	<1	0.3	35.8	<10	<2
Reference Materials														
STD DS10	Standard	1.62	28.5	1.6	<0.05	2.4	7.67	35.7	0.23	41	0.8	19.8	111	180
STD DS10	Standard	1.57	27.3	1.5	<0.05	2.3	7.63	34.5	0.22	46	0.7	19.2	100	171
STD DS10	Standard	1.38	27.6	1.5	<0.05	2.4	7.45	33.7	0.25	46	0.5	17.9	107	201
STD DS10	Standard	1.46	27.8	1.6	<0.05	2.3	7.52	34.9	0.22	51	0.7	19.7	123	176
STD OXC129	Standard	1.35	15.7	0.7	<0.05	21.0	4.65	23.6	<0.02	<1	0.7	2.0	<10	<2
STD OXC129	Standard	1.49	15.0	0.7	<0.05	21.0	4.49	23.1	<0.02	<1	0.7	2.2	<10	<2
STD OXC129	Standard	1.12	15.1	0.7	<0.05	21.4	4.54	23.4	<0.02	<1	0.8	2.0	<10	<2
STD OXC129	Standard	1.09	14.7	0.8	<0.05	19.7	4.21	21.7	<0.02	<1	1.0	2.4	<10	<2
STD DS10 Expected		1.62	27.7	1.6		2.7	7.77	37	0.23	50	0.63	19.4	110	191
STD OXC129 Expected		1.4		0.7		21	4.7	23.7			0.8	2.22		
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2
BLK	Blank	<0.02	<0.1	<0.1	<0.05	<0.1	<0.01	<0.1	<0.02	<1	<0.1	<0.1	<10	<2

## Appendix III. Plan Maps



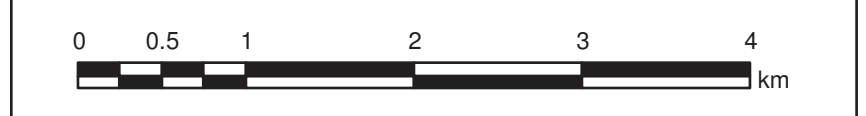
**Golden Predator - 3 Aces Properties**  
**2016 Soil Sample Grids.**  
 (May 27, 2017)



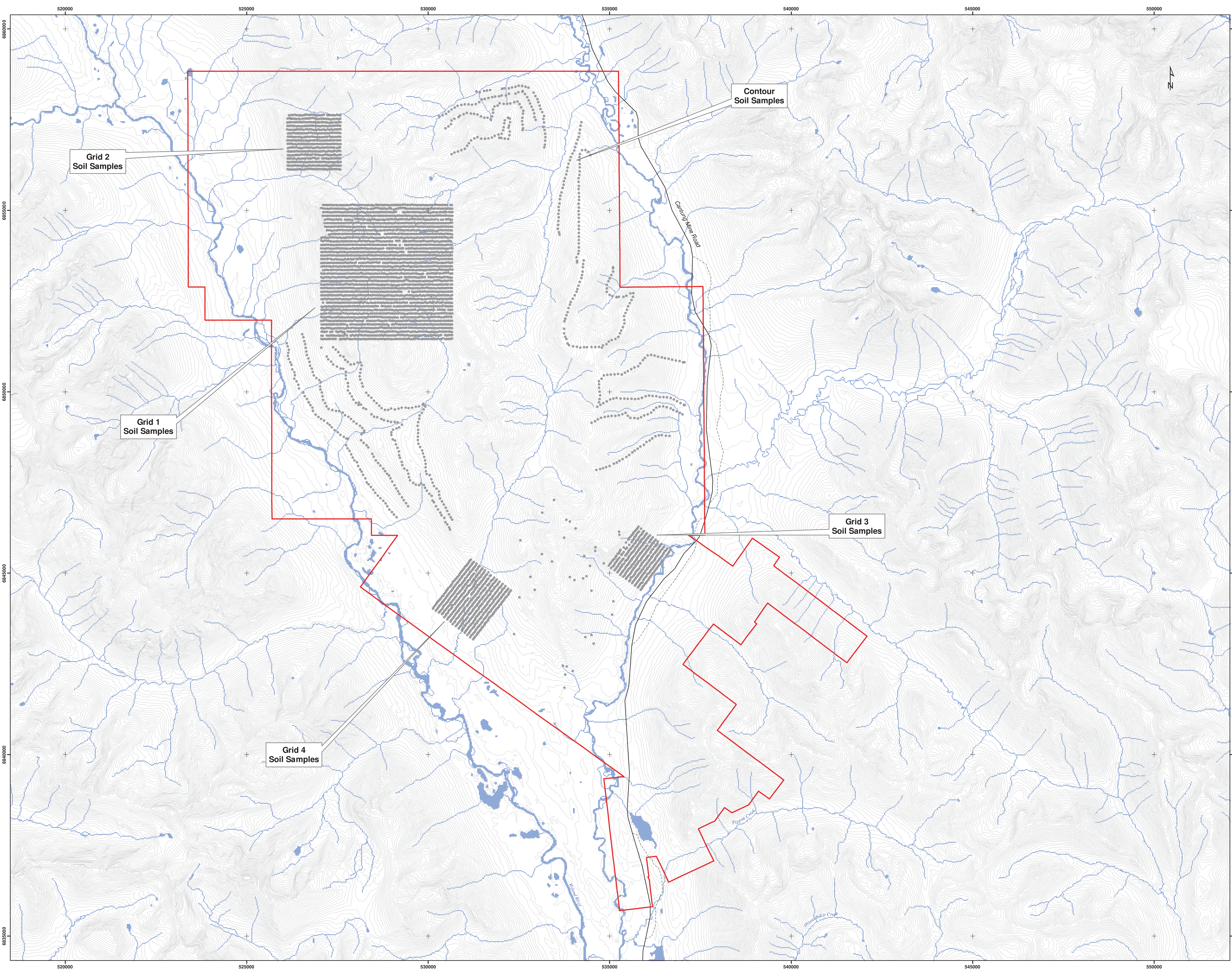
- Legend**
- 3 Ace Property Outline
  - 3 Aces Quartz Claims



**3 Aces Property**  
 Property Claim Map



Scale:	1:45,000	Map ID:	
Draw Date:	May 29, 2017	Rev. Date:	
Version:	Version 1.	Figure:	
Author:	G. Dessureau	Office:	
Location:	3 Aces Property, Yukon Territory, Canada		
Projection:	NAD 1983, UTM Zone 9N		
Filename:			



**Golden Predator - 3 Aces Properties  
2016 Soil Sample Grids.**  
(May 27, 2017)

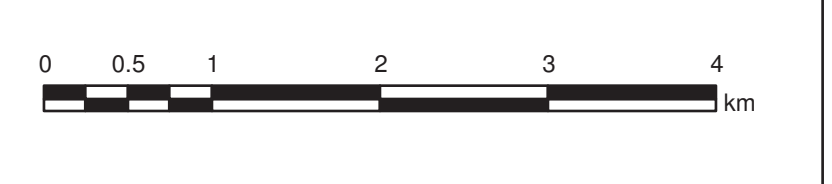


**Legend**

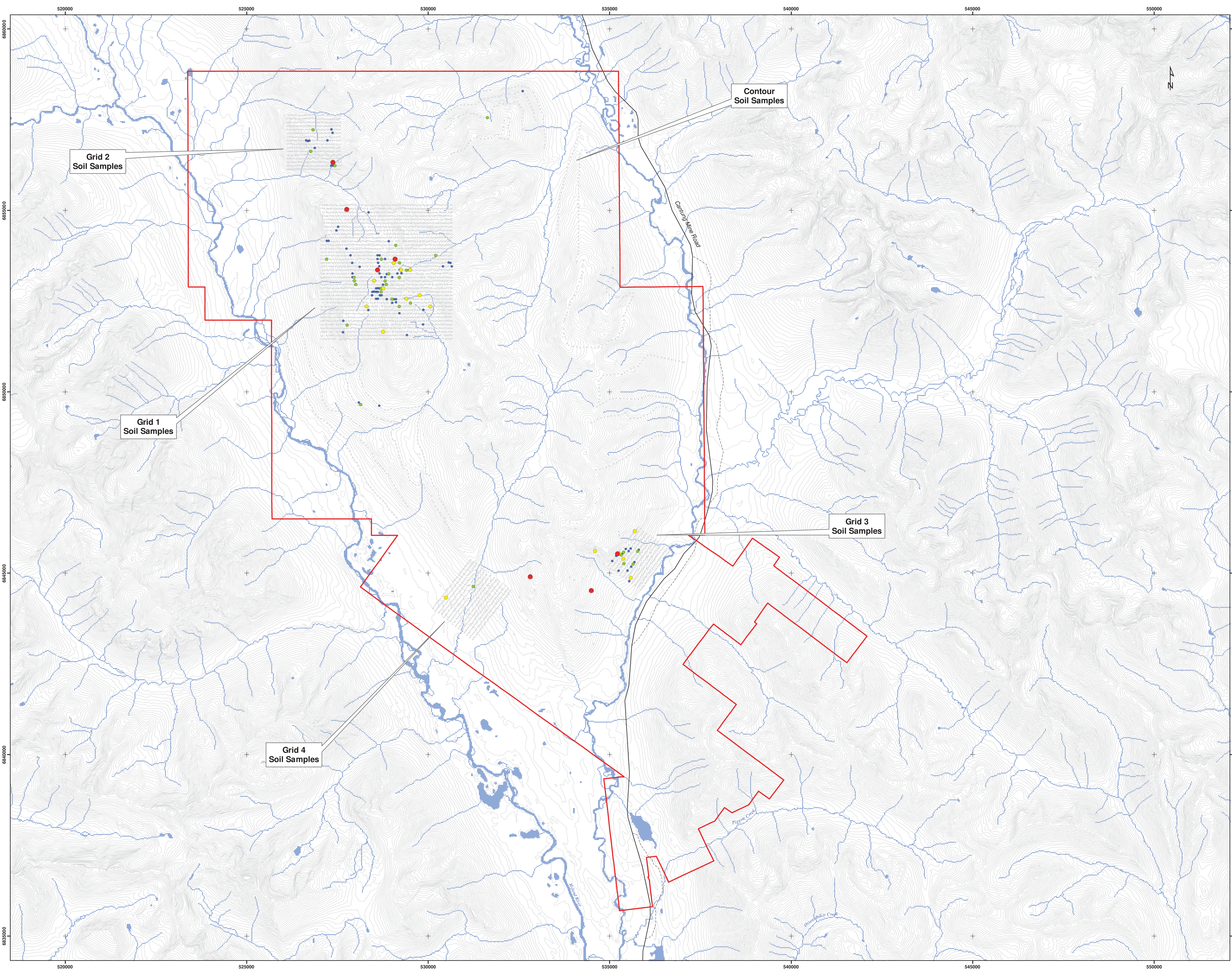
- 3 Ace Property Outline
- 3 Aces 2016 Soil Samples



**3 Aces Property**  
Soil Sample Locations



Scale:	1:45,000	Map ID:	
Draw Date:	May 29, 2017	Rev. Date:	
Version:	Version 1.	Figure:	
Author:	G. Dessureau	Office:	
Location:	3 Aces Property, Yukon Territory, Canada		
Projection:	NAD 1983, UTM Zone 9N		
Filename:			



**Golden Predator - 3 Aces Properties  
2016 Soil Sample Grids.**  
(May 27, 2017)



**Legend**

3 Ace Property Outline

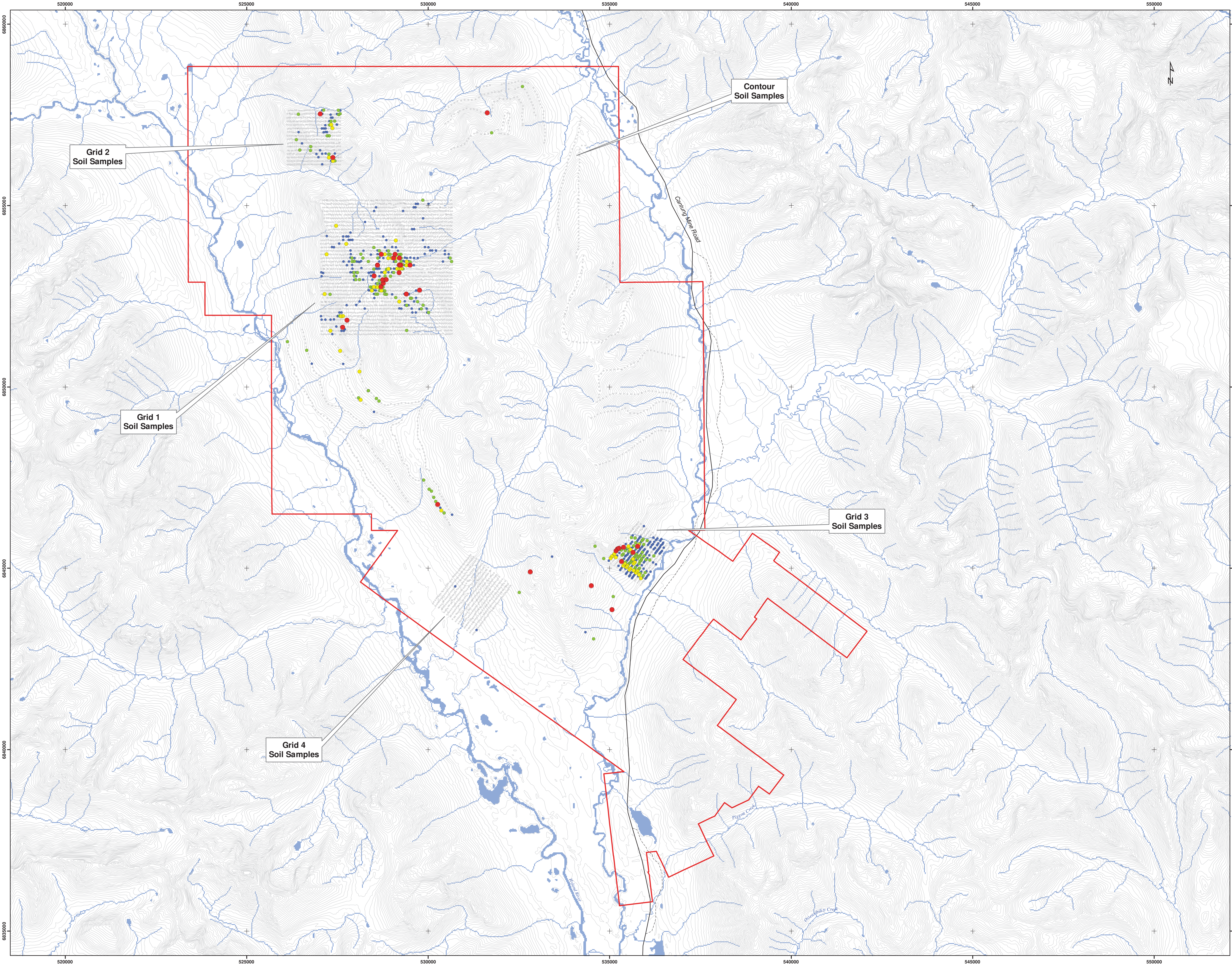
**3 Aces Regional Soil Samples  
Au (ppm)**

- 0.00000 - 0.05000
- 0.050001 - 0.10000
- 0.100001 - 0.20000
- 0.200001 - 0.50000
- 0.500001 - 19.3160



**3 Aces Property**  
Gold in Soils

0 0.5 1 2 3 4 km			
Scale:	1:45,000	Map ID:	
Draw Date:	May 29, 2017	Rev. Date:	
Version:	Version 1.	Figure:	
Author:	G. Dessureau	Office:	
Location:	3 Aces Property, Yukon Territory, Canada		
Projection:	NAD 1983, UTM Zone 9N		
Filename:			



**Golden Predator - 3 Aces Properties  
2016 Soil Sample Grids.**  
(May 27, 2017)



**Legend**

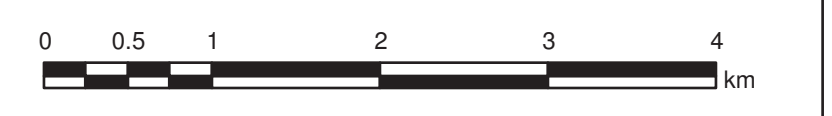
3 Ace Property Outline

**3 Aces Regional Soil Samples  
As (ppm)**

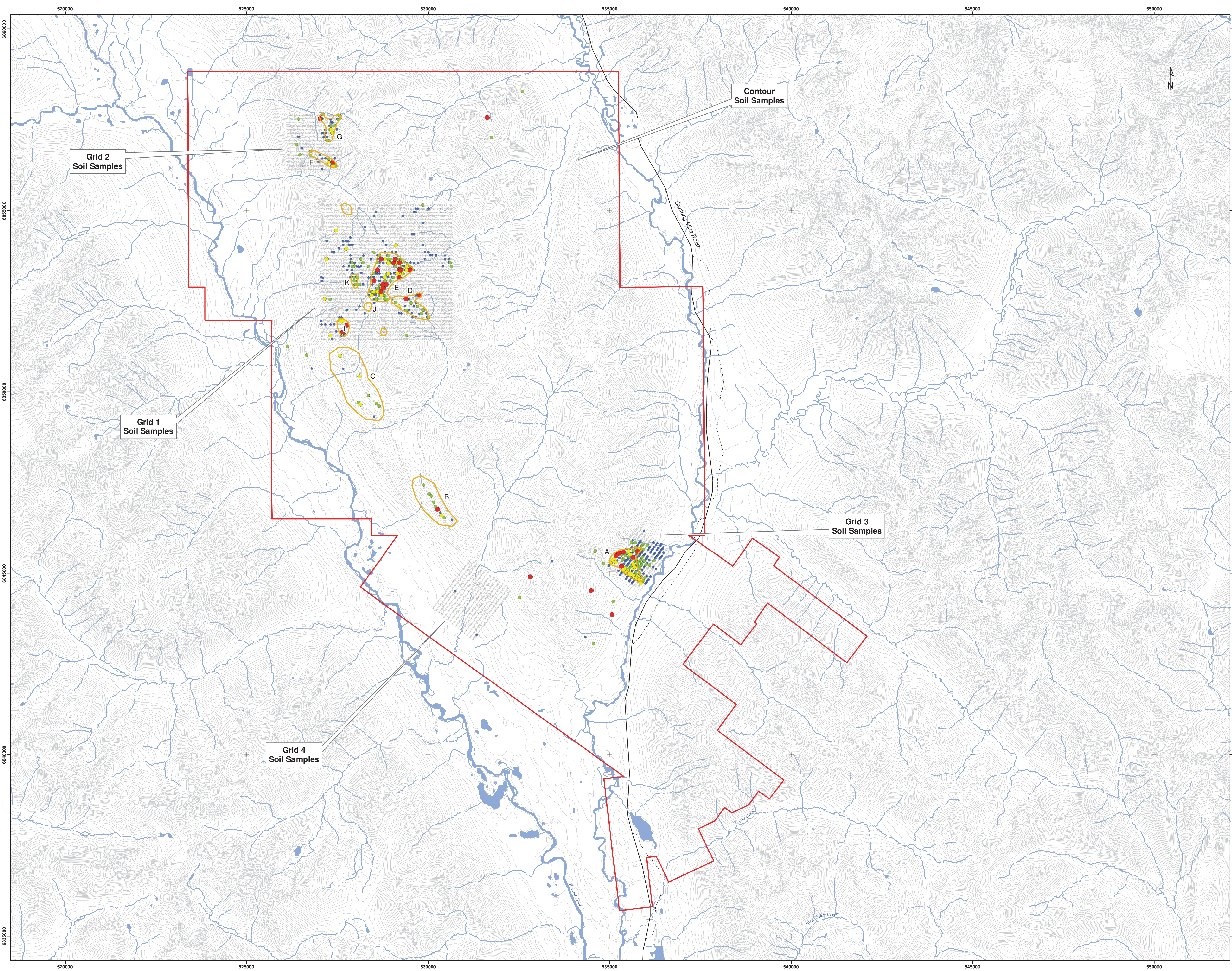
- 000000 - 100.00
- 100.001 - 200.00
- 200.001 - 400.00
- 400.001 - 800.00
- 800.001 - 10000.00



**3 Aces Property**  
Arsenic in Soils



Scale:	1:45,000	Map ID:	
Draw Date:	May 29, 2017	Rev. Date:	
Version:	Version 1.	Figure:	
Author:	G. Dessureau	Office:	
Location:	3 Aces Property, Yukon Territory, Canada		
Projection:	NAD 1983, UTM Zone 9N		
Filename:			



**Golden Predator - 3 Aces Properties  
2016 Soil Sample Grids.**  
(May 27, 2017)



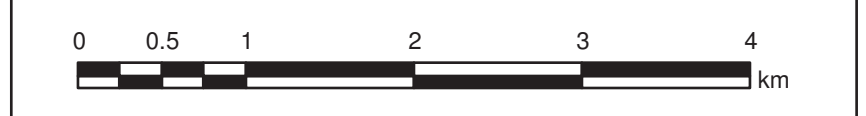
- Legend**
- 3 Ace Property Outline
  - 3 Aces Exploration Targets

**3 Aces Regional Soil Samples  
As (ppm)**

- 000000 - 100.00
- 100.001 - 200.00
- 200.001 - 400.00
- 400.001 - 800.00
- 800.001 - 10000.00



**3 Aces Property**  
Exploration Targets



Scale:	1:45,000	Map ID:	
Draw Date:	May 29, 2017	Rev. Date:	
Version:	Version 1.	Figure:	
Author:	G. Dessureau	Office:	
Location:	3 Aces Property, Yukon Territory, Canada		
Projection:	NAD 1983, UTM Zone 9N		
Filename:			